2960 Foster Creighton Road Nashville, TN 37204 \* 800-765-0980 \* Fax 615-726-3404

Client Acton Mickelson Environmental, Inc. (13785) 5175 Hillsdale Circle, Suite 100 El Dorado Hills, CA 95762 Attn Jennifer Guthmiller

Work Order:NPF1612Project Name:(06) Former Renton Terminal #46-080Project Number:13041.01Received:06/13/06 07:50

Additional Laboratory Comments:

Conformance/Non-Conformance Summary:

Samples were properly preserved and received in good condition on 06/13/06. Analyses were performed within method required holding times. There were no anomalies noted at sample log-in. Please note: The % recovery for the surrogate on sample HA1-060706 was below the laboratory historical limits. There was insufficient sample volume to re-extract. Surrogate % recoveries were outside QC criteria due to sample dilution/matrix. All QC results were within acceptable limits. Initial and Continuing Calibration requirements were met.

Silica-gel clean-up was performed on samples for DRO analysis.

See Data Qualifiers and Definitions at end of this report for further explanation.

As you review this data package, please call me if you require any additional information at # 1-800-765-0980. Oregon Certification Number: TN200001

The Chain(s) of Custody, 7 pages, are included and are an integral part of this report.

These results relate only to the items tested. This report shall not be reproduced except in full and with permission of the laboratory. Report Approved By:

gudra Mchfilto

Sandra McMillin Senior Project Manager

| ANALYTICAL TE  | ANALYTICAL TESTING CORPORATION                                |                |              |               |  | 2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404 |  |  |  |  |  |  |  |
|--|---|----------------|--------------|---------------|--|--|--|--|--|--|--|--|--|
| Client Acton Mickelson Environmental,<br>5175 Hillsdale Circle, Suite 100<br>El Dorado Hills, CA 95762<br>Attn Jennifer Guthmiller | 5175 Hillsdale Circle, Suite 100<br>El Dorado Hills, CA 95762 |                |              |               | Order:<br>xt Name:<br>xt Number:<br>ved: | NPF1612<br>(06) Former R<br>13041.01<br>06/13/06 07:50                           | Renton Terminal #4                           | 46-080   |  |  |  |  |  |
|  |   |                | ANALY        | TICAL REPO    | ORT                                      |  | ARTAGORANIS CONTRACTOR CONTRACTOR CONTRACTOR | enter forgan en en forgan en de la autorea en a companya en anter en a companya en a companya en a companya en | (ANT AND ANT AND |  |  |  |  |
| Analyte  | Result  | Flag           | Units        | MDL           | MRL                                      | Dilution<br>Factor   | •  | Method   | Batch  |  |  |  |  |
| Sample ID: NPF1612-01 (TB-2-060  |   |                | d: 06/06/    | '06 14:45     |  |  |  |  |  |  |  |  |  |
| Selected Volatile Organic Compounds 1  |   | <u>18260</u> В |              | - • • • •     |  |  |  |  |  |  |  |  |  |
| Benzene  | ND  |                | ug/L         | 0.290         | 1.00                                     | 1  | 06/19/06 23:17                               | SW846 8260B  | 6063351  |  |  |  |  |
| Ethylbenzene<br>Methyl tert Putyl Ether  | ND  |                | ug/L<br>~    | 0.340         | 1.00                                     | 1  | 06/19/06 23:17                               | SW846 8260B  | 6063351  |  |  |  |  |
| Methyl tert-Butyl Ether<br>Toluene   | ND  |                | ug/L         | 0.320         | 1.00                                     | 1  | 06/19/06 23:17                               | SW846 8260B  | 6063351  |  |  |  |  |
| Xylenes, total   | ND<br>ND  |                | ug/L         | 0.280         | 1.00<br>2.00                             | 1  | 06/19/06 23:17                               | SW846 8260B  | 6063351  |  |  |  |  |
| Ethanol  | ND  |                | ug/L         | 0.820<br>45.1 | 2.00<br>100                              | 1  | 06/19/06 23:17                               | SW846 8260B  | 6063351  |  |  |  |  |
| Surr: 1,2-Dichloroethane-d4 (70-130%)  |   |                | ug/L         | 43.1          | 100                                      | 1  | 06/19/06 23:17                               | SW846 8260B  | 6063351  |  |  |  |  |
| Surr: Dibromofluoromethane (79-122%)   | 97 %  |                |              |               |  | 1  | 06/19/06 23:17                               | SW846 8260B  | 6063351  |  |  |  |  |
|  | 100 %   |                |              |               |  | 1  | 06/19/06 23:17                               | SW846 8260B  | 6063351  |  |  |  |  |
| Surr: Toluene-d8 (78-121%)   | 103 %   |                |              |               |  | 1  | 06/19/06 23:17                               | SW846 8260B  | 6063351  |  |  |  |  |
| Surr: 4-Bromofluorobenzene (78-126%)   | 111 %   |                |              |               |  | I  | 06/19/06 23:17                               | SW846 8260B  | 6063351  |  |  |  |  |
| Purgeable Petroleum Hydrocarbons   |   |                |              |               |  |  |  |  |  |  |  |  |  |
| GRO as Gasoline  | ND  |                | ug/L         | 40.0          | 100                                      | 1  | 06/19/06 19:00                               | NWTPH-Gx   | 6063711  |  |  |  |  |
| Surr: a,a,a-Trifluorotoluene (63-134%)   | 84 %  |                |              |               |  | 1  | 06/19/06 19:00                               | NWTPH-Gx   | 6063711  |  |  |  |  |
| Lected Volatile Organic Compounds b<br>Benzene<br>Ethylbenzene   | by EPA Method<br>1230<br>1010                                 | 18260B         | ug/L<br>ug/L | 2.90<br>3.40  | 10.0<br>10.0                             | 10<br>10   | 06/20/06 21:02<br>06/20/06 21:02             | SW846 8260B<br>SW846 8260B   | 6063351<br>6063351                                   |  |  |  |  |
| Methyl tert-Butyl Ether  | ND  |                | ug/L         | 0.320         | 1.00                                     | 1  | 06/20/06 00:15                               | SW846 8260B  | 6063351  |  |  |  |  |
| Toluene  | 18.4  |                | ug/L         | 0.280         | 1.00                                     | 1  | 06/20/06 00:15                               | SW846 8260B  | 6063351  |  |  |  |  |
| Xylenes, total   | 67.4  |                | ug/L         | 0.820         | 2.00                                     | 1  | 06/20/06 00:15                               | SW846 8260B  | 6063351  |  |  |  |  |
| Ethanol  | ND  |                | ug/L         | 45.1          | 100                                      | 1  | 06/20/06 00:15                               | SW846 8260B  | 6063351  |  |  |  |  |
| Jurr: 1,2-Dichloroethane-d4 (70-130%)  | 91 %  |                |              |               |  | 1  | 06/20/06 00:15                               | SW846 8260B  | 6063351  |  |  |  |  |
| Surr: Dibromofluoromethane (79-122%)   | 97 %  |                |              |               |  | -  | 06/20/06 00:15                               | SW846 8260B  | 6063351  |  |  |  |  |
| Surr: Toluene-d8 (78-121%)   | 105 %   |                |              |               |  | -  | 06/20/06 00:15                               | SW846 8260B  | 6063351  |  |  |  |  |
| urr: 4-Bromofluorobenzene (78-126%)  | 103 %   |                |              |               |  |  | 06/20/06 00:15                               | SW846 8260B  | 6063351  |  |  |  |  |
| Extractable Petroleum Hydrocarbons   |   |                |              |               |  |  |  |  |  |  |  |  |  |
| Diesel   | 4 <b>620</b> Q  | QSG            | ug/L         | 76.0          | 200                                      | 2  | 06/23/06 12:28                               | NWTPH-Dx   | 6062451  |  |  |  |  |
| Motor Oil  | 411 Q   | QSG            | ug/L         | 76.0          | 200                                      | 2  | 06/23/06 12:28                               | NWTPH-Dx   | 6062451  |  |  |  |  |
| Surr: o-Terphenyl (51-142%)  | 62 %  |                |              |               |  |  | 06/23/06 12:28                               | NWTPH-Dx   | 6062451  |  |  |  |  |
| Purgeable Petroleum Hydrocarbons<br>JRO as Gasoline  | 010A  |                | _            | 200           | 2000                                     |  |  |  |  |  |  |  |  |
|  | 9180  |                | ug/L         | 800           | 2000                                     | 20   | 06/20/06 09:48                               | NWTPH-Gx   | 6063796  |  |  |  |  |
| Surr: a,a,a-Trifluorotoluene (63-134%)   | 101 %   |                |              |               |  | 1  | 06/20/06 09:48                               | NWTPH-Gx   | 6063796  |  |  |  |  |
| Sample ID: NPF1612-03 (HA11-060  |   |                | Sampled      | I: 06/07/06 0 | 8:10                                     |  |  |  |  |  |  |  |  |
| Selected Volatile Organic Compounds by   | -   | 8260B          |              |               |  |  |  |  |  |  |  |  |  |
| Benzene  | 662   |                | ug/L         | 2.90          | 10.0                                     |  | 06/20/06 21:31                               | SW846 8260B  | 6063351  |  |  |  |  |
| Ethylbenzene   | 443   |                | ug/L         | 3.40          | 10.0                                     |  | 06/20/06 21:31                               | SW846 8260B  | 6063351  |  |  |  |  |
| Methyl tert-Butyl Ether  |   | J              | ug/L         | 0.320         | 1.00                                     |  | 06/20/06 00:44                               | SW846 8260B  | 6063351  |  |  |  |  |
| ene  | 17.0  |                | ug/L         | 0.280         | 1.00                                     |  | 06/20/06 00:44                               | SW846 8260B  | 6063351  |  |  |  |  |
| enes, total  | 1420  |                | ug/L         | 8.20          | 20.0                                     | 10   | 06/20/06 21:31                               | SW846 8260B  | 6063351  |  |  |  |  |
|  |   |                |              |               |  |  |  |  |  |  |  |  |  |

|   | ANALYTICAL TESTING CORPORATION  |  |   | 2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404   |  |   |  |   |  |  |
|---|---|--|---|--|--|---|--|---|--|--|
| Client Acton Mickelson Environmental,<br>5175 Hillsdale Circle, Suite 100<br>El Dorado Hills, CA 95762<br>Attn Jennifer Guthmiller  |   | Work Order:NPF1612Project Name:(06) Former Renton Terminal #46-080Project Number:13041.01Received:06/13/06 07:50 |   |  |  |   |  |   |  |  |
|   |   |  | ANALY   | TICAL REPO   | ORT  |   |  |   |  |  |
| Analyte   | Result  | Flag   | Units   | MDL  | MRL  | Dilution<br>Factor  | ÷  | Method  | Batch  |  |
| Sample ID: NPF1612-03 (HA11-06<br>Volatile Organic Compounds by EPA M   |   |  | r) - cont. S  | Sampled: 06  | /07/06 08:1  | 0   |  |   |  |  |
| Ethanol   | ND  |  | ug/L  | 45.1   | 100  | 1   | 06/20/06 00:44   | SW846 8260B   | 6063351  |  |
| Surr: 1,2-Dichloroethane-d4 (70-130%)   | 90 %  |  | -0-   |  |  | 1   | 06/20/06 00:44   | SW846 8260B   | 606335   |  |
| Surr: Dibromofluoromethane (79-122%)  | 97%   |  |   |  |  | -   | 06/20/06 00:44   | SW846 8260B   | 606335   |  |
| Surr: Toluene-d8 (78-121%)  | 106 %   |  |   |  |  | 1   |  |   | 606335   |  |
| Surr: 4-Bromofluorobenzene (78-126%)  | 100 %   |  |   |  |  | 1   | 06/20/06 00:44   | SW846 8260B   | 606335   |  |
|   | 105 %   |  |   |  |  | 1   | 06/20/06 00:44   | SW846 8260B   | 000555   |  |
| Extractable Petroleum Hydrocarbons  |   |  |   |  |  |   |  |   |  |  |
| Diesel  | 3320  | QSG  | ug/L  | 73.8   | 194  | 2   | 06/23/06 17:48   | NWTPH-Dx  | 6062451  |  |
| Motor Oil   | 147   | QSG, J   | ug/L  | 73.8   | 194  | 2   | 06/23/06 17:48   | NWTPH-Dx  | 6062451  |  |
| Surr: o-Terphenyl (51-142%)   | 38 %  |  |   |  |  | 2   | 06/23/06 17:48   | NWTPH-Dx  | 606245   |  |
| Purgeable Petroleum Hydrocarbons  |   |  |   |  |  |   |  |   |  |  |
| GRO as Gasoline   | 8760  |  | ug/L  | 400  | 1000   | 10  | 06/20/06 10:22   | NWTPH-Gx  | 6063796  |  |
|   | 0100  |  |   |  |  |   |  |   |  |  |
| Surr: a,a,a-Trifluorotoluene (63-134%)<br>Sample ID: NPF1612-04 (HA3-0607)<br>.ected Volatile Organic Compounds b   | 93 %<br>706 - Grou  |  | -   |  | 3:40   | 1   | 06/20/06 10:22   | NWTPH-Gx  | 606379   |  |
| Surr: a,a,a-Trifluorotoluene (63-134%)<br><b>Cample ID: NPF1612-04 (HA3-0607</b><br>.ected Volatile Organic Compounds b<br>Benzene<br>Ethylbenzene<br>Methyl tert-Butyl Ether<br>Foluene  | 93 %<br>706 - Grou<br>by EPA Metl<br>80.8<br>0.620<br>ND<br>6.59  | nod 8260B<br>J   | Sampled<br>ug/L<br>ug/L<br>ug/L<br>ug/L                                   | 06/07/06 08<br>0.290<br>0.340<br>0.320<br>0.280  | 1.00<br>1.00<br>1.00<br>1.00   | 1<br>1<br>1<br>1  | 06/20/06 10:22<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59   | SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B   | 6063351<br>6063351<br>6063351<br>6063351   |  |
| Surr: a,a,a-Trifluorotoluene (63-134%)<br>Somple ID: NPF1612-04 (HA3-0607<br>Lected Volatile Organic Compounds b<br>Benzene<br>Ethylbenzene<br>Methyl tert-Butyl Ether<br>Foluene<br>Xylenes, total   | 93 %<br>706 - Grou<br>by EPA Metl<br>80.8<br>0.620<br>ND<br>6.59<br>0.880   | nod 8260B  | Sampled<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L                   | 06/07/06 08<br>0.290<br>0.340<br>0.320<br>0.280<br>0.820   | 1.00<br>1.00<br>1.00<br>2.00   | 1<br>1<br>1<br>1<br>1   | 06/20/06 10:22<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59   | SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B  | 6063351<br>6063351<br>6063351<br>6063351<br>6063351  |  |
| Surr: a,a,a-Trifluorotoluene (63-134%) Somple ID: NPF1612-04 (HA3-0607 Cected Volatile Organic Compounds b Benzene Ethylbenzene Methyl tert-Butyl Ether Foluene Xylenes, total Ethanol  | 93 %<br>706 - Grou<br>by EPA Metl<br>80.8<br>0.620<br>ND<br>6.59<br>0.880<br>ND   | nod 8260B<br>J   | Sampled<br>ug/L<br>ug/L<br>ug/L<br>ug/L                                   | 06/07/06 08<br>0.290<br>0.340<br>0.320<br>0.280  | 1.00<br>1.00<br>1.00<br>1.00   | 1<br>1<br>1<br>1<br>1<br>1  | 06/20/06 10:22<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59   | SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B  | 6063351<br>6063351<br>6063351<br>6063351<br>6063351<br>6063351   |  |
| Surr: a,a,a-Triffuorotoluene (63-134%)<br>Somple ID: NPF1612-04 (HA3-0607<br>ected Volatile Organic Compounds b<br>Benzene<br>Ethylbenzene<br>Methyl tert-Butyl Ether<br>Foluene<br>Xylenes, total<br>Ethanol<br>Surr: 1,2-Dichloroethane-d4 (70-130%)  | 93 %<br>706 - Grou<br>by EPA Metl<br>80.8<br>0.620<br>ND<br>6.59<br>0.880<br>ND<br>103 %  | nod 8260B<br>J   | Sampled<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L                   | 06/07/06 08<br>0.290<br>0.340<br>0.320<br>0.280<br>0.820   | 1.00<br>1.00<br>1.00<br>2.00   | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1                                    | 06/20/06 10:22<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59   | SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B   | 6063351<br>6063351<br>6063351<br>6063351<br>6063351<br>6063351   |  |
| Surr: a,a,a-Triffuorotoluene (63-134%)<br>Sample ID: NPF1612-04 (HA3-0607<br>ected Volatile Organic Compounds b<br>Benzene<br>Ethylbenzene<br>Methyl tert-Butyl Ether<br>Foluene<br>Xylenes, total<br>Ethanol<br>Surr: 1,2-Dichloroethane-d4 (70-130%)<br>Surr: Dibromofluoromethane (79-122%)  | 93 %<br>706 - Grou<br>by EPA Meth<br>80.8<br>0.620<br>ND<br>6.59<br>0.880<br>ND<br>103 %<br>104 %   | nod 8260B<br>J   | Sampled<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L                   | 06/07/06 08<br>0.290<br>0.340<br>0.320<br>0.280<br>0.820   | 1.00<br>1.00<br>1.00<br>2.00   | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1                | 06/20/06 10:22<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59   | SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B  | 6063351<br>6063351<br>6063351<br>6063351<br>6063351<br>6063351<br>6063351<br>606335  |  |
| Surr: a,a,a-Trifluorotoluene (63-134%)<br>Sample ID: NPF1612-04 (HA3-0607<br>Lected Volatile Organic Compounds b<br>Benzene<br>Ethylbenzene<br>Methyl tert-Butyl Ether<br>Foluene<br>Xylenes, total<br>Ethanol<br>Surr: 1,2-Dichloroethane-d4 (70-130%)<br>Surr: Dibromofluoromethane (79-122%)<br>Surr: Toluene-d8 (78-121%)   | 93 %<br>706 - Grou<br>by EPA Metl<br>80.8<br>0.620<br>ND<br>6.59<br>0.880<br>ND<br>103 %<br>104 %<br>103 %  | nod 8260B<br>J   | Sampled<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L                   | 06/07/06 08<br>0.290<br>0.340<br>0.320<br>0.280<br>0.820   | 1.00<br>1.00<br>1.00<br>2.00   | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1                | 06/20/06 10:22<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59   | SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B   | 6063351<br>6063351<br>6063351<br>6063351<br>6063351<br>6063351<br>6063355<br>6063355   |  |
| Surr: a,a,a-Triffuorotoluene (63-134%)<br>Sample ID: NPF1612-04 (HA3-0607<br>ected Volatile Organic Compounds b<br>Benzene<br>Ethylbenzene<br>Methyl tert-Butyl Ether<br>Foluene<br>Xylenes, total<br>Ethanol<br>Surr: 1,2-Dichloroethane-d4 (70-130%)<br>Surr: Dibromofluoromethane (79-122%)<br>Surr: Toluene-d8 (78-121%)<br>Surr: 4-Bromofluorobenzene (78-126%)  | 93 %<br>706 - Grou<br>by EPA Meth<br>80.8<br>0.620<br>ND<br>6.59<br>0.880<br>ND<br>103 %<br>104 %   | nod 8260B<br>J   | Sampled<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L                   | 06/07/06 08<br>0.290<br>0.340<br>0.320<br>0.280<br>0.820   | 1.00<br>1.00<br>1.00<br>2.00   | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1           | 06/20/06 10:22<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59   | SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B  | 6063351<br>6063351<br>6063351<br>6063351<br>6063351<br>6063351<br>6063351<br>6063351   |  |
| Surr: a,a,a-Triffuorotoluene (63-134%) Surr: a,a,a-Triffuorotoluene (63-134%) Surr: Compounds b Benzene Ethylbenzene Methyl tert-Butyl Ether Foluene Xylenes, total Ethanol Surr: 1,2-Dichloroethane-d4 (70-130%) Surr: Dibromofluoromethane (79-122%) Surr: Toluene-d8 (78-121%) Surr: 4-Bromofluorobenzene (78-126%) Extractable Petroleum Hydrocarbons   | 93 %<br>706 - Grou<br>by EPA Metl<br>80.8<br>0.620<br>ND<br>6.59<br>0.880<br>ND<br>103 %<br>104 %<br>103 %  | nod 8260B<br>J   | Sampled<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L                   | 06/07/06 08<br>0.290<br>0.340<br>0.320<br>0.280<br>0.820   | 1.00<br>1.00<br>1.00<br>2.00   | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1                | 06/20/06 10:22<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59   | SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B   | 6063351<br>6063351<br>6063351<br>6063351<br>6063351<br>6063351<br>6063355<br>6063355   |  |
| Surr: a,a,a-Triffuorotoluene (63-134%)<br>Sample ID: NPF1612-04 (HA3-0607<br>Lected Volatile Organic Compounds b<br>Benzene<br>Ethylbenzene<br>Methyl tert-Butyl Ether<br>Foluene<br>Xylenes, total<br>Ethanol<br>Surr: 1,2-Dichloroethane-d4 (70-130%)<br>Surr: Dibromofluoromethane (79-122%)<br>Surr: Toluene-d8 (78-121%)<br>Surr: 4-Bromofluorobenzene (78-126%)<br>Extractable Petroleum Hydrocarbons<br>Diesel   | 93 %<br>706 - Grou<br>by EPA Metl<br>80.8<br>0.620<br>ND<br>6.59<br>0.880<br>ND<br>103 %<br>104 %<br>103 %<br>110 %   | J<br>J<br>J<br>QSG   | ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L                      | <ul> <li>06/07/06 08</li> <li>0.290</li> <li>0.340</li> <li>0.320</li> <li>0.280</li> <li>0.820</li> <li>45.1</li> </ul>   | 1.00<br>1.00<br>1.00<br>2.00<br>100  | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1                | 06/20/06 10:22<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59   | SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B  | 6063351<br>6063351<br>6063351<br>6063351<br>6063351<br>6063351<br>6063355<br>6063355<br>6063355<br>6063355   |  |
| Surr: a,a,a-Triffuorotoluene (63-134%)<br>Sample ID: NPF1612-04 (HA3-0607<br>ected Volatile Organic Compounds b<br>Benzene<br>Ethylbenzene<br>Methyl tert-Butyl Ether<br>Foluene<br>Xylenes, total<br>Ethanol<br>Surr: 1,2-Dichloroethane-d4 (70-130%)<br>Surr: Dibromofluoromethane (79-122%)<br>Surr: Toluene-d8 (78-121%)<br>Surr: 7-Divene-d8 (78-121%)<br>Surr: 4-Bromofluorobenzene (78-126%)<br>Extractable Petroleum Hydrocarbons<br>Diesel<br>Motor Oil  | 93 %<br>706 - Grou<br>by EPA Meth<br>80.8<br>0.620<br>ND<br>6.59<br>0.880<br>ND<br>103 %<br>104 %<br>103 %<br>110 %   | J<br>J<br>J  | 9 Sampled<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L                 | : 06/07/06 08<br>0.290<br>0.340<br>0.320<br>0.280<br>0.820<br>45.1   | 1.00<br>1.00<br>1.00<br>2.00<br>100  | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1                | 06/20/06 10:22<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59   | SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B  | 6063351<br>6063351<br>6063351<br>6063351<br>6063351<br>606335<br>606335<br>606335<br>606335<br>606335  |  |
| Surr: a,a,a-Triffuorotoluene (63-134%)<br>Sample ID: NPF1612-04 (HA3-0607<br>Lected Volatile Organic Compounds b<br>Benzene<br>Ethylbenzene<br>Methyl tert-Butyl Ether<br>Foluene<br>Xylenes, total<br>Ethanol<br>Surr: 1,2-Dichloroethane-d4 (70-130%)<br>Surr: Dibromofluoromethane (79-122%)<br>Surr: Toluene-d8 (78-121%)<br>Surr: 4-Bromofluorobenzene (78-126%)<br>Extractable Petroleum Hydrocarbons<br>Diesel   | 93 %<br>706 - Grou<br>by EPA Metl<br>80.8<br>0.620<br>ND<br>6.59<br>0.880<br>ND<br>103 %<br>104 %<br>103 %<br>110 %   | J<br>J<br>J<br>QSG   | ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L                      | <ul> <li>06/07/06 08</li> <li>0.290</li> <li>0.340</li> <li>0.320</li> <li>0.280</li> <li>0.820</li> <li>45.1</li> </ul>   | 1.00<br>1.00<br>1.00<br>2.00<br>100  | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1                     | 06/20/06 10:22<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59   | SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B  | 6063351<br>6063351<br>6063351<br>6063351<br>6063351<br>6063351<br>6063355<br>6063355<br>6063355<br>6063355<br>6063355                                  |  |
| Surr: a,a,a-Triffuorotoluene (63-134%)<br>Sample ID: NPF1612-04 (HA3-0607<br>ected Volatile Organic Compounds b<br>Benzene<br>Ethylbenzene<br>Methyl tert-Butyl Ether<br>Foluene<br>Xylenes, total<br>Ethanol<br>Surr: 1,2-Dichloroethane-d4 (70-130%)<br>Surr: Dibromofluoromethane (79-122%)<br>Surr: Toluene-d8 (78-121%)<br>Surr: 7-Divene-d8 (78-121%)<br>Surr: 4-Bromofluorobenzene (78-126%)<br>Extractable Petroleum Hydrocarbons<br>Diesel<br>Motor Oil  | 93 %<br>706 - Grou<br>by EPA Meth<br>80.8<br>0.620<br>ND<br>6.59<br>0.880<br>ND<br>103 %<br>104 %<br>103 %<br>110 %   | J<br>J<br>J<br>QSG   | ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L                      | <ul> <li>06/07/06 08</li> <li>0.290</li> <li>0.340</li> <li>0.320</li> <li>0.280</li> <li>0.820</li> <li>45.1</li> </ul>   | 1.00<br>1.00<br>1.00<br>2.00<br>100  | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1                          | 06/20/06 10:22<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59   | SW846 8260B<br>SW846 8260B   | 6063351<br>6063351<br>6063351<br>6063351<br>6063351<br>606335<br>606335<br>606335<br>606335<br>606335  |  |
| Surr: a,a,a-Triffuorotoluene (63-134%)<br>Surr: a,a,a-Triffuorotoluene (63-134%)<br>Surr: a,a,a-Triffuorotoluene (63-134%)<br>Surr: Compounds b<br>Benzene<br>Ethylbenzene<br>Methyl tert-Butyl Ether<br>Foluene<br>Xylenes, total<br>Ethanol<br>Surr: 1,2-Dichloroethane-d4 (70-130%)<br>Surr: Dibromofluoromethane (79-122%)<br>Surr: Toluene-d8 (78-121%)<br>Surr: 4-Bromofluorobenzene (78-126%)<br>Extractable Petroleum Hydrocarbons<br>Diesel<br>Motor Oil<br>Surr: o-Terphenyl (51-142%)  | 93 %<br>706 - Grou<br>by EPA Meth<br>80.8<br>0.620<br>ND<br>6.59<br>0.880<br>ND<br>103 %<br>104 %<br>103 %<br>110 %   | J<br>J<br>J<br>QSG   | ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L              | <ul> <li>06/07/06 08</li> <li>0.290</li> <li>0.340</li> <li>0.320</li> <li>0.280</li> <li>0.820</li> <li>45.1</li> </ul>   | 1.00<br>1.00<br>1.00<br>2.00<br>100  | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | 06/20/06 10:22<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59   | SW846 8260B<br>SW846 8260B   | 6063351<br>6063351<br>6063351<br>6063351<br>6063351<br>6063355<br>6063355<br>6063355<br>6063355<br>6062451<br>6062451<br>6062451                       |  |
| Surr: a,a,a-Triffuorotoluene (63-134%)<br>Surr: a,a,a-Triffuorotoluene (63-134%)<br>Sected Volatile Organic Compounds b<br>Benzene<br>Ethylbenzene<br>Methyl tert-Butyl Ether<br>Foluene<br>Xylenes, total<br>Ethanol<br>Surr: 1,2-Dichloroethane-d4 (70-130%)<br>Surr: Toluene-d8 (78-121%)<br>Surr: Toluene-d8 (78-121%)<br>Surr: 4-Bromofluorobenzene (78-126%)<br>Extractable Petroleum Hydrocarbons<br>Diesel<br>Motor Oil<br>Surr: o-Terphenyl (51-142%)<br>Purgeable Petroleum Hydrocarbons  | 93 %<br>706 - Grou<br>by EPA Meta<br>80.8<br>0.620<br>ND<br>6.59<br>0.880<br>ND<br>103 %<br>104 %<br>103 %<br>110 %<br>755<br>470<br>51 %   | J<br>J<br>J<br>QSG   | ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L                      | <ul> <li>06/07/06 08</li> <li>0.290</li> <li>0.340</li> <li>0.320</li> <li>0.280</li> <li>0.820</li> <li>45.1</li> </ul>   | 1.00<br>1.00<br>1.00<br>2.00<br>100  | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1      | 06/20/06 10:22<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59   | SW846 8260B<br>SW846 8260B   | 6063351<br>6063351<br>6063351<br>6063351<br>6063351<br>6063355<br>6063355<br>6063355<br>6063355<br>6062451<br>6062451<br>6062451<br>6062451            |  |
| Surr: a,a,a-Triffuorotoluene (63-134%)<br>Surr: a,a,a-Triffuorotoluene (63-134%)<br>Surr: a,a,a-Triffuorotoluene (63-134%)<br>Senzene<br>Ethylbenzene<br>Methyl tert-Butyl Ether<br>Foluene<br>Xylenes, total<br>Ethanol<br>Surr: 1,2-Dichloroethane-d4 (70-130%)<br>Surr: 7.2-Dichloroethane-d4 (70-130%)<br>Surr: 7.2-Dichloroethane-d4 (70-130%)<br>Surr: 7.2-Dichloroethane (79-122%)<br>Surr: 7.0luene-d8 (78-121%)<br>Surr: 4-Bromofluorobenzene (78-126%)<br>Extractable Petroleum Hydrocarbons<br>Diesel<br>Motor Oil<br>Surr: o-Terphenyl (51-142%)<br>Purgeable Petroleum Hydrocarbons<br>GRO as Gasoline<br>surr: a,a,a-Trifluorotoluene (63-134%)<br>Sample ID: NPF1612-05 (HA12-060) | 93 %<br>706 - Grou<br>by EPA Meth<br>80.8<br>0.620<br>ND<br>6.59<br>0.880<br>ND<br>103 %<br>104 %<br>103 %<br>110 %<br>755<br>470<br>51 %<br>531<br>108 %   | J<br>J<br>QSG<br>QSG   | 9 Sampled<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L | <ul> <li>06/07/06 08</li> <li>0.290</li> <li>0.340</li> <li>0.320</li> <li>0.280</li> <li>0.820</li> <li>45.1</li> </ul> 63.3 <ul> <li>63.3</li> <li>63.3</li> <li>40.0</li> </ul>   | 1.00<br>1.00<br>1.00<br>2.00<br>100  | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1           | 06/20/06 10:22<br>06/20/06 22:59<br>06/20/06 00:29<br>06/23/06 00:29<br>06/23/06 00:29<br>06/23/06 00:29<br>06/19/06 21:17   | SW846 8260B<br>SW846 8260B                                  | 6063351<br>6063351<br>6063351<br>6063351<br>6063351<br>6063355<br>6063355<br>6063355<br>6063355<br>6062451<br>6062451<br>6062451<br>6062451            |  |
| Surr: a,a,a-Triffuorotoluene (63-134%) Surr: a,a,a-Triffuorotoluene (63-134%) Compounds by Benzene Ethylbenzene Methyl tert-Butyl Ether Foluene Xylenes, total Ethanol Surr: 1,2-Dichloroethane-d4 (70-130%) Surr: Dibromofluoromethane (79-122%) Surr: Toluene-d8 (78-121%) Surr: 4-Bromofluorobenzene (78-126%) Extractable Petroleum Hydrocarbons Diesel Motor Oil Surr: o-Terphenyl (51-142%) Purgeable Petroleum Hydrocarbons GRO as Gasoline Surr: a,a,a-Trifluorotoluene (63-134%) Sample ID: NPF1612-05 (HA12-060) Selected Volatile Organic Compounds by   | 93 %<br>706 - Grou<br>by EPA Meth<br>80.8<br>0.620<br>ND<br>6.59<br>0.880<br>ND<br>103 %<br>104 %<br>103 %<br>104 %<br>103 %<br>110 %<br>755<br>470<br>51 %<br>531<br>108 %<br>706 - Grou<br>y EPA Meth             | J<br>J<br>QSG<br>QSG   | 9 Sampled<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L | <ul> <li>06/07/06 08</li> <li>0.290</li> <li>0.340</li> <li>0.320</li> <li>0.280</li> <li>0.820</li> <li>45.1</li> </ul> 63.3 <ul> <li>63.3</li> <li>63.3</li> <li>40.0</li> </ul> 1: 06/07/06 03  | 1.00<br>1.00<br>1.00<br>2.00<br>100<br>100<br>100<br>8:00  | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1      | 06/20/06 10:22<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 00:29<br>06/23/06 00:29<br>06/23/06 00:29<br>06/23/06 00:29<br>06/23/06 00:29<br>06/23/06 00:29   | SW846 8260B<br>SW846 8260B<br>NWTPH-Dx<br>NWTPH-Dx<br>NWTPH-Dx<br>NWTPH-Cx | 6063351<br>6063351<br>6063351<br>6063351<br>6063351<br>6063353<br>6063353<br>6063353<br>6063353<br>6062451<br>6062451<br>6062451<br>6062451<br>6062451 |  |
| Surr: a,a,a-Triffuorotoluene (63-134%)<br>Sample ID: NPF1612-04 (HA3-0607<br>ected Volatile Organic Compounds b<br>Benzene<br>Ethylbenzene<br>Methyl tert-Butyl Ether<br>Foluene<br>Xylenes, total<br>Ethanol<br>Surr: 1,2-Dichloroethane-d4 (70-130%)<br>Surr: Dibromofluoromethane (79-122%)<br>Surr: Toluene-d8 (78-121%)<br>Surr: 4-Bromofluorobenzene (78-126%)<br>Extractable Petroleum Hydrocarbons<br>Diesel<br>Motor Oil<br>Surr: o-Terphenyl (51-142%)<br>Purgeable Petroleum Hydrocarbons<br>GRO as Gasoline<br>SRO as Gasoline<br>SRO as Gasoline<br>Sample ID: NPF1612-05 (HA12-060)<br>Selected Volatile Organic Compounds by<br>Benzene  | 93 %<br>706 - Grou<br>by EPA Meth<br>80.8<br>0.620<br>ND<br>6.59<br>0.880<br>ND<br>103 %<br>104 %<br>103 %<br>104 %<br>103 %<br>110 %<br>755<br>470<br>51 %<br>531<br>108 %<br>706 - Grou<br>y EPA Meth<br>ND       | J<br>J<br>QSG<br>QSG   | 9 Sampled<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L | <ul> <li>06/07/06 08</li> <li>0.290</li> <li>0.340</li> <li>0.320</li> <li>0.280</li> <li>0.820</li> <li>45.1</li> <li>63.3</li> <li>63.3</li> <li>63.3</li> <li>40.0</li> <li>0.6/07/06 03</li> <li>0.290</li> </ul>                                    | 1.00<br>1.00<br>1.00<br>2.00<br>100<br>100<br>100<br>167<br>167<br>167<br>167<br>167<br>100<br><b>8:00</b><br>1.00 | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1      | 06/20/06 10:22<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 00:29<br>06/23/06 00:29<br>06/23/06 00:29<br>06/23/06 00:29<br>06/23/06 00:29<br>06/23/06 00:29<br>06/23/06 00:29<br>06/23/06 00:29<br>06/23/06 00:29<br>06/20/06 21:17<br>06/19/06 21:17 | SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>NWTPH-Dx<br>NWTPH-Dx<br>NWTPH-Dx<br>NWTPH-Gx                | 6063351<br>6063351<br>6063351<br>6063351<br>6063351<br>6063355<br>6063355<br>6063355<br>6062451<br>6062451<br>6062451<br>6062451<br>6062451            |  |
| Surr: a,a,a-Triffuorotoluene (63-134%)<br>Sample ID: NPF1612-04 (HA3-0607<br>ected Volatile Organic Compounds b<br>Benzene<br>Ethylbenzene<br>Methyl tert-Butyl Ether<br>Foluene<br>Xylenes, total<br>Ethanol<br>Surr: 1,2-Dichloroethane-d4 (70-130%)<br>Surr: Dibromofluoromethane (79-122%)<br>Surr: Toluene-d8 (78-121%)<br>Surr: 4-Bromofluorobenzene (78-126%)<br>Extractable Petroleum Hydrocarbons<br>Diesel<br>Motor Oil<br>Surr: o-Terphenyl (51-142%)<br>Purgeable Petroleum Hydrocarbons<br>GRO as Gasoline<br>Surr: a,a,a-Trifluorotoluene (63-134%)<br>Sample ID: NPF1612-05 (HA12-060)<br>Selected Volatile Organic Compounds by<br>Benzene<br>Sthylbenzene                        | 93 %<br>706 - Grou<br>by EPA Meth<br>80.8<br>0.620<br>ND<br>6.59<br>0.880<br>ND<br>103 %<br>104 %<br>103 %<br>104 %<br>103 %<br>100 %<br>755<br>470<br>51 %<br>531<br>108 %<br>706 - Grou<br>y EPA Meth<br>ND<br>ND | J<br>J<br>QSG<br>QSG   | Sampled<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L   | <ul> <li>06/07/06 08         <ul> <li>0.290</li> <li>0.340</li> <li>0.320</li> <li>0.280</li> <li>0.820</li> <li>45.1</li> </ul> </li> <li>63.3</li> <li>63.3</li> <li>63.3</li> <li>40.0</li> <li>0.6/07/06 03</li> <li>0.290</li> <li>0.340</li> </ul> | 1.00<br>1.00<br>1.00<br>2.00<br>100<br>100<br>100<br>100<br><b>8:00</b><br>1.00<br>1.00                            | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | 06/20/06 10:22<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 00:29<br>06/23/06 00:29<br>06/23/06 00:29<br>06/23/06 00:29<br>06/23/06 00:29<br>06/23/06 00:29<br>06/23/06 00:29<br>06/20/06 21:17<br>06/19/06 21:17                                     | SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>NWTPH-Dx<br>NWTPH-Dx<br>NWTPH-Dx<br>NWTPH-Gx<br>SW846 8260B                | 6063351<br>6063351<br>6063351<br>6063351<br>6063351<br>6063351<br>6063351<br>6063351<br>6062451<br>6062451<br>6062451<br>6062451<br>6063711<br>6063351 |  |
| Surr: a,a,a-Triffuorotoluene (63-134%)<br>Sample ID: NPF1612-04 (HA3-0607<br>ected Volatile Organic Compounds b<br>Benzene<br>Ethylbenzene<br>Methyl tert-Butyl Ether<br>Foluene<br>Xylenes, total<br>Ethanol<br>Surr: 1,2-Dichloroethane-d4 (70-130%)<br>Surr: Dibromofluoromethane (79-122%)<br>Surr: Toluene-d8 (78-121%)<br>Surr: 4-Bromofluorobenzene (78-126%)<br>Extractable Petroleum Hydrocarbons<br>Diesel<br>Motor Oil<br>Surr: o-Terphenyl (51-142%)<br>Purgeable Petroleum Hydrocarbons<br>GRO as Gasoline<br>SRO as Gasoline<br>SRO as Gasoline<br>Sample ID: NPF1612-05 (HA12-060)<br>Selected Volatile Organic Compounds by<br>Benzene  | 93 %<br>706 - Grou<br>by EPA Meth<br>80.8<br>0.620<br>ND<br>6.59<br>0.880<br>ND<br>103 %<br>104 %<br>103 %<br>104 %<br>103 %<br>110 %<br>755<br>470<br>51 %<br>531<br>108 %<br>706 - Grou<br>y EPA Meth<br>ND       | J<br>J<br>QSG<br>QSG   | 9 Sampled<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L | <ul> <li>06/07/06 08</li> <li>0.290</li> <li>0.340</li> <li>0.320</li> <li>0.280</li> <li>0.820</li> <li>45.1</li> <li>63.3</li> <li>63.3</li> <li>63.3</li> <li>40.0</li> <li>0.6/07/06 03</li> <li>0.290</li> </ul>                                    | 1.00<br>1.00<br>1.00<br>2.00<br>100<br>100<br>100<br>167<br>167<br>167<br>167<br>167<br>100<br><b>8:00</b><br>1.00 | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1      | 06/20/06 10:22<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 22:59<br>06/20/06 00:29<br>06/23/06 00:29<br>06/23/06 00:29<br>06/23/06 00:29<br>06/23/06 00:29<br>06/23/06 00:29<br>06/23/06 00:29<br>06/23/06 00:29<br>06/23/06 00:29<br>06/20/06 21:17<br>06/19/06 21:17 | SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>NWTPH-Dx<br>NWTPH-Dx<br>NWTPH-Dx<br>NWTPH-Gx                | 6063351<br>6063351<br>6063351<br>6063351<br>6063351<br>6063351<br>6063351<br>6063351<br>6062451<br>6062451<br>6062451<br>6062451<br>6063711            |  |

|                                       | 5175 Hillsdale Circle, Suite 100<br>El Dorado Hills, CA 95762<br>n Jennifer Guthmiller |               |              |              |              | NPF1612<br>(06) Former 1<br>13041.01<br>06/13/06 07:5 | Renton Terminal #<br>50          | 46-080               |                    |
|---------------------------------------|--|---------------|--------------|--------------|--------------|---|----------------------------------|----------------------|--------------------|
|                                       |  |               | ANALY        | TICAL REP    | ORT          |   |                                  |                      |                    |
| Analyte                               | Result   | Flag          | Units        | MDL          | MRL          | Dilutio<br>Factor                                     | •                                | Method               | Batch              |
| ; ple ID: NPF1612-05 (HA12-0          | 60706 - Gro  | ound Wate     | er) - cont.  | Sampled: 06  | /07/06 08:   | :00   |                                  |                      |                    |
| √olatile Organic Compounds by EPA     | Method 8260  | )B - cont.    |              |              |              |   |                                  |                      |                    |
| thanol                                | ND   |               | ug/L         | 45.1         | 100          | 1   | 06/20/06 23:29                   | SW846 8260B          | 6063351            |
| 1,2-Dichloroethane-d4 (70-130%)       | 101 %  |               | -            |              |              | 1   | 06/20/06 23:29                   | SW846 8260B          | 6063351            |
| ırr: Dibromofluoromethane (79-122%)   | 103 %  |               |              |              |              | 1   | 06/20/06 23:29                   | SW846 8260B          | 6063351            |
| ırr: Toluene-d8 (78-121%)             | 117 %  |               |              |              |              | 1   | 06/20/06 23:29                   | SW846 8260B          | 6063351            |
| 4-Bromofluorobenzene (78-126%)        | 109 %  |               |              |              |              | 1   | 06/20/06 23:29                   | SW846 8260B          | 6063351            |
| Extractable Petroleum Hydrocarbons    |  |               |              |              |              | 1   | 00/20/00 25.27                   |                      |                    |
|                                       | 165  | OFC           | 7            | 26.2         | 05.2         | 1   | 06/00/06 01 10                   | MUTPH D              | (0(0451            |
| i vr Oil                              | 70.1   | QSG<br>QSG, J | ug/L<br>ug/L | 36.2<br>36.2 | 95.2<br>95.2 | 1   | 06/23/06 01:19<br>06/23/06 01:19 | NWTPH-Dx<br>NWTPH-Dx | 6062451<br>6062451 |
| a o-Terphenyl (51-142%)               | 76%  | Q50, J        | ug/L         | 50.2         | 20.4         |   | 06/23/06 01:19                   | NWTPH-Dx             | 6062451            |
|                                       | 70.70  |               |              |              |              | 1   | 00/23/00 01:19                   | NWIF n-Dx            | 0002451            |
| hurgeable Petroleum Hydrocarbons      |  |               |              |              |              |   |                                  |                      |                    |
| as Gasoline                           | ND   |               | ug/L         | 40.0         | 100          | 1   | 06/19/06 21:51                   | NWTPH-Gx             | 6063711            |
| urr: a,a,a-Trifluorotoluene (63-134%) | 84%  |               |              |              |              | 1   | 06/19/06 21:51                   | NWTPH-Gx             | 6063711            |
| J Volatile Organic Compounds          |  |               | ) Sampled    | 0.290 0.290  | 3:30<br>1.00 | 1   | 06/20/06 02:13                   | SW846 8260B          | 6063351            |
| lbenzene                              | ND   |               | ug/L         | 0.340        | 1.00         | 1   | 06/20/06 02:13                   | SW846 8260B          | 6063351            |
| yl tert-Butyl Ether                   | ND   |               | ug/L         | 0.320        | 1.00         | 1   | 06/20/06 02:13                   | SW846 8260B          | 6063351            |
| bluene                                | ND   |               | ug/L         | 0.280        | 1.00         | 1   | 06/20/06 02:13                   | SW846 8260B          | 6063351            |
| ylenes, total                         | ND   |               | ug/L         | 0.820        | 2.00         | 1   | 06/20/06 02:13                   | SW846 8260B          | 6063351            |
|                                       | ND   |               | ug/L         | 45.1         | 100          | 1   | 06/20/06 02:13                   | SW846 8260B          | 6063351            |
| 1,2-Dichloroethane-d4 (70-130%)       | 91 %   |               |              |              |              | 1   | 06/20/06 02:13                   | SW846 8260B          | 6063351            |
| rr: Dibromofluoromethane (79-122%)    | 98 %   |               |              |              |              | 1   | 06/20/06 02:13                   | SW846 8260B          | 6063351            |
| Toluene-d8 (78-121%)                  | 114%   |               |              |              |              | 1   | 06/20/06 02:13                   | SW846 8260B          | 6063351            |
| 4-Bromofluorobenzene (78-126%)        | 111 %  |               |              |              |              | 1   | 06/20/06 02:13                   | SW846 8260B          | 6063351            |
| xtractable Petroleum Hydrocarbons     |  |               |              |              |              |   |                                  |                      |                    |
| 4 - <b>11</b>                         | 14700  | QSG           | ug/L         | 364          | 957          | 10  | 06/23/06 12:46                   | NWTPH-Dx             | 6062451            |
| r Oil                                 | 1610   | QSG           | ug/L         | 364          | 957          | 10  | 06/23/06 12:46                   | NWTPH-Dx             | 6062451            |
| rr: o-Terphenyl (51-142%)             | *  | Z3            |              |              |              | 10  | 06/23/06 12:46                   | NWTPH-Dx             | 6062451            |
| eable Petroleum Hydrocarbons          |  |               |              |              |              |   |                                  |                      |                    |
| as Gasoline                           | ND   |               | ug/L         | 40.0         | 100          | 1   | 06/19/06 22:24                   | NWTPH-Gx             | 6063711            |
| rr: a,a,a-Trifluorotoluene (63-134%)  | 84 %   |               | ug/D         | 1010         | 100          |   | 06/19/06 22:24                   | NWTPH-Gx             | 6063711            |
|                                       |  |               |              |              |              | 1   | 00/19/00 22:24                   | 1117 II II=UA        | **                 |
| ple ID: NPF1612-07 (HA6-0607          |  |               | Sampled:     | 06/07/06 09: | 20           |   |                                  |                      |                    |
| steeted Volatile Organic Compounds b  | y EPA Meth   | od 8260B      |              |              |              |   |                                  |                      |                    |
| nzene                                 | 345  |               | ug/L         | 5.80         | 20.0         |   | 06/20/06 22:01                   | SW846 8260B          | 6063351            |
| benzene                               | 1040   |               | ug/L         | 6.80         | 20.0         |   | 06/20/06 22:01                   | SW846 8260B          | 6063351            |
| yl tert-Butyl Ether                   | ND   |               | ug/L         | 0.320        | 1.00         |   | 06/20/06 02:42                   | SW846 8260B          | 6063351            |
| lur total                             | 189  |               | ug/L         | 0.280        | 1.00         |   |                                  | SW846 8260B          | 6063351            |
| total                                 | 2900   |               | ug/L         | 16.4         | 40.0         | 20  | 06/20/06 22:01                   | SW846 8260B          | 6063351            |

|  |  | RPORATIO                               | N ·  |   | on Road Nashv  | ille, TN 37204 * 8  | :00-765-0980 * Fax 6   | 15-726-3404   | an a successive and a successive car   |
|--|--|--|--|---|--|---|--|---|--|
| Client Acton Mickelson Environmental,<br>5175 Hillsdale Circle, Suite 100<br>El Dorado Hills, CA 95762   | , Inc. (13785)   |  |  | Projec  | Order:<br>t Name:<br>t Number:                                     | NPF1612<br>(06) Former H<br>13041.01                                    | Renton Terminal #  | 46-080  |  |
| Attn Jennifer Guthmiller   |  | 11113/11111111111111111111111111111111 |  | Receiv  | ved:   | 06/13/06 07:5   | 0  |   |  |
|  |  |  | ANAL   | YTICAL REPO   | ORT  |   |  |   |  |
| Analyte  | Result   | Flag                                   | Units  | MDL   | MRL  | Dilution<br>Factor  | 6  | Method  | Batc   |
| Sample ID: NPF1612-07 (HA6-060   |  |  | ·) - cont. S   | ampled: 06/   | 07/06 09:2   | 0   |  |   |  |
| Volatile Organic Compounds by EPA M  | Method 8260  | )B - cont.                             |  |   |  |   |  |   |  |
| Ethanol  | ND   |  | ug/L   | 45.1  | 100  | 1   | 06/20/06 02:42   | SW846 8260B   | 606335   |
| Surr: 1,2-Dichloroethane-d4 (70-130%)  | 95 %   |  |  |   |  | 1   | 06/20/06 02:42   | SW846 8260B   | 60633  |
| Surr: Dibromofluoromethane (79-122%)   | 100 %  |  |  |   |  | 1   | 06/20/06 02:42   | SW846 8260B   | 60633  |
| Surr: Toluene-d8 (78-121%)   | 106 %  |  |  |   |  | 1   | 06/20/06 02:42   | SW846 8260B   | 60633  |
| Surr: 4-Bromofluorobenzene (78-126%)   | 98 %   |  |  |   |  | 1   | 06/20/06 02:42   | SW846 8260B   | 60633  |
| Extractable Petroleum Hydrocarbons   |  | Į.                                     |  |   |  |   |  |   |  |
| Diesel   | 3700   | QSG                                    | ug/L   | 72.4  | 190  | 2   | 06/23/06 18:05   | NWTPH-Dx  | 606245   |
| Motor Oil  | 106  | QSG, J                                 | ug/L   | 72.4  | 190  | 2   | 06/23/06 18:05   | NWTPH-Dx  | 606245   |
| urr: o-Terphenyl (51-142%)   | 45 %   | Ζ                                      |  |   |  | 2   | 06/23/06 18:05   | NWTPH-Dx  | 60624  |
| Purgeable Petroleum Hydrocarbons   |  |  |  |   |  |   |  |   |  |
| 3RO as Gasoline  | 18600  |  | ug/L   | 800   | 2000   | 20  | 06/20/06 10:56   | NWTPH-Gx  | 606379   |
| urr: a,a,a-Trifluorotoluene (63-134%)  | 108 %  |  |  |   |  | 1   | 06/20/06 10:56   | NWTPH-Gx  | 60637  |
| mple ID: NPF1612-08 (D4-06070<br>ected Volatile Organic Compounds b  |  |  | Sampled:   | 06/07/06 09:3   | 30   |   |  |   |  |
| Benzene  | ND   |  | ug/L   | 0.290   | 1 00   | 1   | 0 ( 10 0 10 ( 00 70  |   |  |
| Ethylbenzene   | ND   |  |  |   | 1.00   | 1   | 06/20/06 23:58   | SW846 8260B   | 606335   |
|  |  |  | ug/L   | 0.340   | 1.00<br>1.00   | 1   | 06/20/06 23:58<br>06/20/06 23:58   | SW846 8260B<br>SW846 8260B  |  |
| •  | ND   |  | ug/L<br>ug/L   | 0.340<br>0.320  |  |   |  |   | 606335   |
| oluene   | ND   |  | ug/L<br>ug/L   | 0.340<br>0.320<br>0.280   | 1.00<br>1.00<br>1.00   | 1<br>1<br>1   | 06/20/06 23:58   | SW846 8260B<br>SW846 8260B<br>SW846 8260B   | 606335<br>606335<br>606335   |
| Foluene<br>Xylenes, total  | ND<br>ND   |  | ug/L<br>ug/L<br>ug/L   | 0.340<br>0.320<br>0.280<br>0.820  | 1.00<br>1.00<br>1.00<br>2.00                                       | 1<br>1<br>1   | 06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58   | SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B  | 606335<br>606335<br>606335<br>606335   |
| Foluene<br>Kylenes, total<br>Sthanol   | ND<br>ND<br>ND   |  | ug/L<br>ug/L   | 0.340<br>0.320<br>0.280   | 1.00<br>1.00<br>1.00   | 1<br>1<br>1   | 06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58   | SW846 8260B<br>SW846 8260B<br>SW846 8260B   | 606335<br>606335<br>606335<br>606335<br>606335   |
| Foluene<br>Kylenes, total<br>Ethanol<br>urr: 1,2-Dichloroethane-d4 (70-130%)   | ND<br>ND<br>ND<br>102 %  |  | ug/L<br>ug/L<br>ug/L   | 0.340<br>0.320<br>0.280<br>0.820  | 1.00<br>1.00<br>1.00<br>2.00                                       | 1<br>1<br>1   | 06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58   | SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B  | 606335<br>606335<br>606335<br>606335<br>606335<br><i>606335</i>  |
| Foluene<br>Xylenes, total<br>Ethanol<br>urr: 1,2-Dichloroethane-d4 (70-130%)<br>urr: Dibromofluoromethane (79-122%)  | ND<br>ND<br>ND<br>102 %<br>104 %   |  | ug/L<br>ug/L<br>ug/L   | 0.340<br>0.320<br>0.280<br>0.820  | 1.00<br>1.00<br>1.00<br>2.00                                       | 1<br>1<br>1<br>1  | 06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58   | SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B   | 606335<br>606335<br>606335<br>606335<br>606335<br>606332   |
| Coluene<br>Kylenes, total<br>Ethanol<br>urr: 1,2-Dichloroethane-d4 (70-130%)<br>urr: Dibromofluoromethane (79-122%)<br>urr: Toluene-d8 (78-121%)   | ND<br>ND<br>102 %<br>104 %<br>103 %  |  | ug/L<br>ug/L<br>ug/L   | 0.340<br>0.320<br>0.280<br>0.820  | 1.00<br>1.00<br>1.00<br>2.00                                       | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1                                    | 06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58   | SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B  | 606335<br>606335<br>606335<br>606335<br>606335<br>606335<br>60633  |
| Foluene<br>Kylenes, total<br>Ethanol<br>urr: 1,2-Dichloroethane-d4 (70-130%)<br>urr: Dibromofluoromethane (79-122%)<br>urr: Toluene-d8 (78-121%)<br>urr: 4-Bromofluorobenzene (78-126%)  | ND<br>ND<br>ND<br>102 %<br>104 %   |  | ug/L<br>ug/L<br>ug/L   | 0.340<br>0.320<br>0.280<br>0.820  | 1.00<br>1.00<br>1.00<br>2.00                                       | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1                          | 06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58   | SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B   | 606335<br>606335<br>606335<br>606335<br>606335<br>60633.<br>60633.   |
| Foluene<br>Kylenes, total<br>Ethanol<br>urr: 1,2-Dichloroethane-d4 (70-130%)<br>urr: Dibromofluoromethane (79-122%)<br>urr: Toluene-d8 (78-121%)<br>urr: 4-Bromofluorobenzene (78-126%)<br>Extractable Petroleum Hydrocarbons  | ND<br>ND<br>102 %<br>104 %<br>103 %  |  | ug/L<br>ug/L<br>ug/L   | 0.340<br>0.320<br>0.280<br>0.820  | 1.00<br>1.00<br>1.00<br>2.00                                       | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1                          | 06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58   | SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B  | 606335<br>606335<br>606335<br>606335<br>606335<br>606332<br>606332   |
| Toluene<br>Kylenes, total<br>Ethanol<br>urr: 1,2-Dichloroethane-d4 (70-130%)<br>urr: Dibromofluoromethane (79-122%)<br>urr: Toluene-d8 (78-121%)<br>urr: 4-Bromofluorobenzene (78-126%)<br>Extractable Petroleum Hydrocarbons<br>biesel  | ND<br>ND<br>102 %<br>104 %<br>103 %<br>105 %   | QSG                                    | ug/L<br>ug/L<br>ug/L   | 0.340<br>0.320<br>0.280<br>0.820<br>45.1  | 1.00<br>1.00<br>2.00<br>100<br>94.3                                | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1                          | 06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58   | SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B  | 606335<br>606335<br>606335<br>606335<br>606335<br>606333<br>606333<br>606333   |
| Toluene<br>Kylenes, total<br>Ethanol<br>urr: 1,2-Dichloroethane-d4 (70-130%)<br>urr: Dibromofluoromethane (79-122%)<br>urr: Toluene-d8 (78-121%)<br>urr: 4-Bromofluorobenzene (78-126%)<br>Extractable Petroleum Hydrocarbons<br>Diesel<br>Motor Oil   | ND<br>ND<br>102 %<br>104 %<br>103 %<br>105 %<br>2760<br>2840   | QSG<br>QSG                             | ug/L<br>ug/L<br>ug/L<br>ug/L                                 | 0.340<br>0.320<br>0.280<br>0.820<br>45.1  | 1.00<br>1.00<br>1.00<br>2.00<br>100                                | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1           | 06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58   | SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B   | 606335<br>606335<br>606335<br>606335<br>606335<br>606332<br>606332<br>606332<br>606332<br>606245<br>606245   |
| Foluene<br>Kylenes, total<br>Ethanol<br>urr: 1,2-Dichloroethane-d4 (70-130%)<br>urr: Dibromofluoromethane (79-122%)<br>urr: Toluene-d8 (78-121%)<br>urr: 4-Bromofluorobenzene (78-126%)<br>Extractable Petroleum Hydrocarbons<br>biesel<br>Motor Oil<br>urr: o-Terphenyl (51-142%)   | ND<br>ND<br>102 %<br>104 %<br>103 %<br>105 %   |  | ug/L<br>ug/L<br>ug/L<br>ug/L                                 | 0.340<br>0.320<br>0.280<br>0.820<br>45.1  | 1.00<br>1.00<br>2.00<br>100<br>94.3                                | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1                               | 06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58   | SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B   | 606335<br>606335<br>606335<br>606335<br>606335<br>606333<br>606333<br>606333<br>606332<br>606245<br>606245   |
| Foluene         Kylenes, total         Sthanol         urr: 1,2-Dichloroethane-d4 (70-130%)         urr: Dibromofluoromethane (79-122%)         urr: Toluene-d8 (78-121%)         urr: 4-Bromofluorobenzene (78-126%)         Extractable Petroleum Hydrocarbons         Diesel         Motor Oil         urr: o-Terphenyl (51-142%)         Purgeable Petroleum Hydrocarbons  | ND<br>ND<br>102 %<br>104 %<br>103 %<br>105 %<br>2760<br>2840<br>56 %   |  | ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L                         | 0.340<br>0.320<br>0.280<br>0.820<br>45.1<br>35.8<br>35.8  | 1.00<br>1.00<br>2.00<br>100<br>94.3<br>94.3                        | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1                     | 06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 02:08<br>06/23/06 02:08                                     | SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>NWTPH-Dx<br>NWTPH-Dx<br>NWTPH-Dx   | 606335<br>606335<br>606335<br>606335<br>606335<br>606332<br>606332<br>606332<br>606332<br>606245<br>606245<br>606245   |
| Yoluene<br>Xylenes, total<br>Sthanol<br>urr: 1,2-Dichloroethane-d4 (70-130%)<br>urr: Dibromofluoromethane (79-122%)<br>urr: Toluene-d8 (78-121%)<br>urr: 4-Bromofluorobenzene (78-126%)<br>Extractable Petroleum Hydrocarbons<br>biesel<br>Motor Oil<br>urr: o-Terphenyl (51-142%)<br>Purgeable Petroleum Hydrocarbons<br>RO as Gasoline   | ND<br>ND<br>102 %<br>104 %<br>103 %<br>105 %<br>2760<br>2840<br>56 %   |  | ug/L<br>ug/L<br>ug/L<br>ug/L                                 | 0.340<br>0.320<br>0.280<br>0.820<br>45.1  | 1.00<br>1.00<br>2.00<br>100<br>94.3                                | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1                          | 06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58   | SW846 8260B<br>SW846 8260B                               | 606335<br>606335<br>606335<br>606335<br>606335<br>606333<br>606333<br>606333<br>606333<br>606245<br>606245<br>606245<br>606245   |
| Yoluene<br>Xylenes, total<br>Sthanol<br>urr: 1,2-Dichloroethane-d4 (70-130%)<br>urr: Dibromofluoromethane (79-122%)<br>urr: Toluene-d8 (78-121%)<br>urr: 4-Bromofluorobenzene (78-126%)<br>Extractable Petroleum Hydrocarbons<br>biesel<br>Motor Oil<br>urr: o-Terphenyl (51-142%)<br>Purgeable Petroleum Hydrocarbons<br>RO as Gasoline<br>urr: a,a,a-Trifluorotoluene (63-134%)  | ND<br>ND<br>102 %<br>104 %<br>103 %<br>105 %<br>2760<br>2840<br>56 %<br>101<br>89 %  | QSG                                    | ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L                 | 0.340<br>0.320<br>0.280<br>0.820<br>45.1<br>35.8<br>35.8<br>40.0  | 1.00<br>1.00<br>2.00<br>100<br>94.3<br>94.3                        | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1                | 06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 02:08<br>06/23/06 02:08                                     | SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>NWTPH-Dx<br>NWTPH-Dx<br>NWTPH-Dx   | 606335<br>606335<br>606335<br>606335<br>606335<br>606333<br>606333<br>606333<br>606333<br>606245<br>606245<br>606245<br>606245   |
| Toluene<br>Kylenes, total<br>Ethanol<br>urr: 1,2-Dichloroethane-d4 (70-130%)<br>urr: Dibromofluoromethane (79-122%)<br>urr: Toluene-d8 (78-121%)<br>urr: 4-Bromofluorobenzene (78-126%)<br>Extractable Petroleum Hydrocarbons<br>tiesel<br>fotor Oil<br>urr: o-Terphenyl (51-142%)<br>Purgeable Petroleum Hydrocarbons<br>RO as Gasoline<br>urr: a,a,a-Trifluorotoluene (63-134%)<br>ample ID: NPF1612-09 (HA14-060  | ND<br>ND<br>102 %<br>104 %<br>103 %<br>105 %<br>2760<br>2840<br>56 %<br>101<br>89 %  | QSG<br>nd Water                        | ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L                 | 0.340<br>0.320<br>0.280<br>0.820<br>45.1<br>35.8<br>35.8<br>40.0  | 1.00<br>1.00<br>2.00<br>100<br>94.3<br>94.3                        | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1                     | 06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 02:08<br>06/23/06 02:08<br>06/23/06 02:08                   | SW846 8260B<br>SW846 8260B                               | 606335<br>606335<br>606335<br>606335<br>606335<br>606333<br>606333<br>606333<br>606333<br>606245<br>606245<br>606245<br>606245   |
| Toluene<br>(xylenes, total<br>Ethanol<br>urr: 1,2-Dichloroethane-d4 (70-130%)<br>urr: Dibromofluoromethane (79-122%)<br>urr: Toluene-d8 (78-121%)<br>urr: 4-Bromofluorobenzene (78-126%)<br>Extractable Petroleum Hydrocarbons<br>Diesel<br>Motor Oil<br>urr: o-Terphenyl (51-142%)<br>Purgeable Petroleum Hydrocarbons<br>RO as Gasoline<br>urr: a,a,a-Trifluorotoluene (63-134%)<br>ample ID: NPF1612-09 (HA14-060<br>elected Volatile Organic Compounds by  | ND<br>ND<br>102 %<br>104 %<br>103 %<br>105 %<br>2760<br>2840<br>56 %<br>101<br>89 %<br>706 - Grou                                      | QSG<br>nd Water                        | ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L                 | 0.340<br>0.320<br>0.280<br>0.820<br>45.1<br>35.8<br>35.8<br>35.8<br>40.0<br>1: 06/07/06 10                    | 1.00<br>1.00<br>2.00<br>100<br>94.3<br>94.3<br>94.3<br>100<br>0:30 | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1                     | 06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 02:08<br>06/23/06 02:08<br>06/23/06 02:08                   | SW846 8260B<br>SW846 8260B                               | 606335<br>606335<br>606335<br>606335<br>606335<br>606333<br>606333<br>606333<br>606333<br>606245<br>606245<br>606245<br>606245   |
| Toluene<br>(ylenes, total<br>Ethanol<br>turr: 1,2-Dichloroethane-d4 (70-130%)<br>turr: 1,2-Dichloroethane (79-122%)<br>turr: Toluene-d8 (78-121%)<br>turr: 4-Bromofluorobenzene (78-126%)<br>Extractable Petroleum Hydrocarbons<br>Diesel<br>Motor Oil<br>turr: o-Terphenyl (51-142%)<br>Purgeable Petroleum Hydrocarbons<br>RO as Gasoline<br>turr: a,a,a-Trifluorotoluene (63-134%)<br><b>Ample ID: NPF1612-09 (HA14-060</b><br>elected Volatile Organic Compounds by<br>enzene  | ND<br>ND<br>102 %<br>104 %<br>103 %<br>105 %<br>2760<br>2840<br>56 %<br>101<br>89 %<br>706 - Grou<br>y EPA Methor<br>ND                | QSG<br>nd Water<br>od 8260B            | ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L | 0.340<br>0.320<br>0.280<br>0.820<br>45.1<br>35.8<br>35.8<br>35.8<br>40.0<br>1: 06/07/06 10<br>0.290           | 1.00<br>1.00<br>2.00<br>100<br>94.3<br>94.3<br>94.3<br>100<br>0:30 | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1           | 06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 02:08<br>06/23/06 02:08<br>06/23/06 02:08                   | SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>NWTPH-Dx<br>NWTPH-Dx<br>NWTPH-Dx<br>NWTPH-Gx<br>NWTPH-Gx                               | 606335<br>606335<br>606335<br>606335<br>606335<br>606333<br>606333<br>606333<br>606333<br>606245<br>606245<br>606245<br>606245<br>606245<br>606245<br>6063711<br>6063711             |
| Foluene<br>Kylenes, total<br>Ethanol<br>turr: 1,2-Dichloroethane-d4 (70-130%)<br>turr: 1,2-Dichloroethane (79-122%)<br>turr: Toluene-d8 (78-121%)<br>turr: 4-Bromofluorobenzene (78-126%)<br>Extractable Petroleum Hydrocarbons<br>Diesel<br>Motor Oil<br>turr: o-Terphenyl (51-142%)<br>Purgeable Petroleum Hydrocarbons<br>RO as Gasoline<br>turr: a,a,a-Trifluorotoluene (63-134%)<br>ample ID: NPF1612-09 (HA14-060<br>Selected Volatile Organic Compounds by<br>enzene<br>thylbenzene   | ND<br>ND<br>102 %<br>104 %<br>103 %<br>105 %<br>2760<br>2840<br>56 %<br>101<br>89 %<br>706 - Grou<br>ND<br>0.560                       | QSG<br>nd Water                        | ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L | 0.340<br>0.320<br>0.280<br>0.820<br>45.1<br>35.8<br>35.8<br>35.8<br>40.0<br>1: 06/07/06 10<br>0.290<br>0.340  | 1.00<br>1.00<br>2.00<br>100<br>94.3<br>94.3<br>94.3<br>100<br>0:30 | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | 06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 02:08<br>06/23/06 02:08<br>06/23/06 02:08<br>06/23/06 02:08 | SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>NWTPH-Dx<br>NWTPH-Dx<br>NWTPH-Dx<br>NWTPH-Gx<br>NWTPH-Gx<br>SW846 8260B<br>SW846 8260B                | 606335<br>606335<br>606335<br>606335<br>606335<br>606335<br>606335<br>606335<br>606245<br>606245<br>606245<br>606245<br>606245<br>606245<br>6063711<br>606371<br>6063351<br>6063351  |
| Methyl tert-Butyl Ether<br>Foluene<br>Kylenes, total<br>Ethanol<br><i>urr: 1,2-Dichloroethane-d4 (70-130%)</i><br><i>urr: 1,2-Dichloroethane (79-122%)</i><br><i>urr: Toluene-d8 (78-121%)</i><br><i>urr: 4-Bromofluorobenzene (78-126%)</i><br>Extractable Petroleum Hydrocarbons<br>Diesel<br>Aotor Oil<br><i>urr: o-Terphenyl (51-142%)</i><br>Purgeable Petroleum Hydrocarbons<br>BRO as Gasoline<br><i>urr: a,a,a-Trifluorotoluene (63-134%)</i><br><b>ample ID: NPF1612-09 (HA14-060</b><br>Gelected Volatile Organic Compounds by<br>enzene<br>thylbenzene<br>lethyl tert-Butyl Ether | ND<br>ND<br>102 %<br>104 %<br>103 %<br>105 %<br>2760<br>2840<br>56 %<br>101<br>89 %<br>706 - Grou<br>y EPA Methon<br>ND<br>0.560<br>ND | QSG<br>nd Water<br>od 8260B            | ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L | 0.340<br>0.320<br>0.280<br>0.820<br>45.1<br>35.8<br>35.8<br>40.0<br>1: 06/07/06 10<br>0.290<br>0.340<br>0.320 | 1.00<br>1.00<br>2.00<br>100<br>94.3<br>94.3<br>94.3<br>100<br>0:30 | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | 06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 02:08<br>06/23/06 02:08<br>06/23/06 02:08<br>06/23/06 02:08 | SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>NWTPH-Dx<br>NWTPH-Dx<br>NWTPH-Dx<br>NWTPH-Gx<br>NWTPH-Gx<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B | 606335<br>606335<br>606335<br>606335<br>606335<br>606335<br>606335<br>606335<br>606335<br>606245<br>606245<br>606245<br>606245<br>606245<br>6062351<br>6063351<br>6063351<br>6063351 |
| Foluene<br>Kylenes, total<br>Ethanol<br>turr: 1,2-Dichloroethane-d4 (70-130%)<br>turr: 1,2-Dichloroethane (79-122%)<br>turr: Toluene-d8 (78-121%)<br>turr: 4-Bromofluorobenzene (78-126%)<br>Extractable Petroleum Hydrocarbons<br>Diesel<br>Motor Oil<br>turr: o-Terphenyl (51-142%)<br>Purgeable Petroleum Hydrocarbons<br>RO as Gasoline<br>turr: a,a,a-Trifluorotoluene (63-134%)<br>ample ID: NPF1612-09 (HA14-060<br>Selected Volatile Organic Compounds by<br>enzene<br>thylbenzene   | ND<br>ND<br>102 %<br>104 %<br>103 %<br>105 %<br>2760<br>2840<br>56 %<br>101<br>89 %<br>706 - Grou<br>ND<br>0.560                       | QSG<br>nd Water<br>od 8260B            | ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L | 0.340<br>0.320<br>0.280<br>0.820<br>45.1<br>35.8<br>35.8<br>35.8<br>40.0<br>1: 06/07/06 10<br>0.290<br>0.340  | 1.00<br>1.00<br>2.00<br>100<br>94.3<br>94.3<br>94.3<br>100<br>0:30 |   | 06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 23:58<br>06/20/06 02:08<br>06/23/06 02:08<br>06/23/06 02:08<br>06/23/06 02:08 | SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>NWTPH-Dx<br>NWTPH-Dx<br>NWTPH-Dx<br>NWTPH-Gx<br>NWTPH-Gx<br>SW846 8260B<br>SW846 8260B                | 606335<br>606335<br>606335<br>606335<br>606335<br>606332<br>606332<br>606332<br>606245<br>606245<br>606245<br>606245<br>606245<br>606245<br>6063711<br>6063711<br>6063351<br>6063351 |

### 10002 MILLIUA

| ANALYTICAL TE   | STING COR   | PORATIC | N 29          | 60 Foster Creighto | on Road Nashv                         | ille, TN 37204 * 80                                    | 00-765-0980 * Fax 61  | 5-726-3404  |   |
|---|---|---------|---------------|--------------------|---------------------------------------|--|-----------------------|-------------|---|
| Client Acton Mickelson Environmental<br>5175 Hillsdale Circle, Suite 100<br>El Dorado Hills, CA 95762<br>Attn Jennifer Guthmiller | 5175 Hillsdale Circle, Suite 100<br>El Dorado Hills, CA 95762 |         |               |                    | Order:<br>t Name:<br>t Number:<br>ed: | NPF1612<br>(06) Former R<br>13041.01<br>06/13/06 07:56 | enton Terminal #4     | .6-080      |   |
|   |   |         | ANALY         | TICAL REPO         | ORT                                   |  |                       |             | an an san Ar Carl I an San Anna Anna Anna Anna Anna Anna An |
| Analyte   | Result  | Flag    | Units         | MDL                | MRL                                   | Dilution<br>Factor                                     | Analysis<br>Date/Time | Method      | Batch   |
| Sample ID: NPF1612-09 (HA14-06<br>Volatile Organic Compounds by EPA I   |   |         | er) - cont. S | Sampled: 06        | /07/06 10:                            | 30   |                       |             |   |
| Ethanol   | ND  | D Cont. | ug/L          | 45.1               | 100                                   | 1  | 06/21/06 00:27        | SW846 8260B | 6063351   |
| Surr: 1,2-Dichloroethane-d4 (70-130%)   | 102 %   |         | ug/L          | 10.1               | 100                                   |  |                       | SW846 8260B | 606335  |
| Surr: Dibromofluoromethane (79-122%)  | 105 %   |         |               |                    |                                       | 1  | 06/21/06 00:27        |             | 606335  |
| Surr: Toluene-d8 (78-121%)  | 113 %   |         |               |                    |                                       | 1  | 06/21/06 00:27        | SW846 8260B | 606335  |
| Surr: 4-Bromofluorobenzene (78-126%)  | 115 %   |         |               |                    |                                       | 1  | 06/21/06 00:27        | SW846 8260B | 606335  |
|   | 100 %   |         |               |                    |                                       | 1  | 06/21/06 00:27        | SW846 8260B | 000333  |
| Purgeable Petroleum Hydrocarbons  |   |         |               |                    |                                       |  |                       |             |   |
| GRO as Gasoline   | ND  |         | ug/L          | 40.0               | 100                                   | 1  | 06/20/06 00:06        | NWTPH-Gx    | 6063711   |
| urr! a,a,a-Trifluorotoluene (63-134%)   | 86 %  |         |               |                    |                                       | 1  | 06/20/06 00:06        | NWTPH-Gx    | 606371  |
| Sample ID: NPF1612-10 (HA13-06  | 0706 - Gro  | und Wat | er) Sample    | d: 06/07/06 1      | 1:00                                  |  |                       |             |   |
| Selected Volatile Organic Compounds   |   |         |               |                    |                                       |  |                       |             |   |
| Benzene   | ND  |         | ug/L          | 0.290              | 1.00                                  | 1  | 06/21/06 00:56        | SW846 8260B | 6063351   |
| Ethylbenzene  | ND  |         | ug/L          | 0.340              | 1.00                                  | 1  | 06/21/06 00:56        | SW846 8260B | 6063351   |
| Methyl tert-Butyl Ether   | ND  |         | ug/L          | 0.320              | 1.00                                  | 1  | 06/21/06 00:56        | SW846 8260B | 6063351   |
| luene   | ND  |         | ug/L          | 0.280              | 1.00                                  | 1  | 06/21/06 00:56        | SW846 8260B | 6063351   |
| .ylenes, total  | ND  |         | ug/L          | 0.820              | 2.00                                  | 1  | 06/21/06 00:56        | SW846 8260B | 6063351   |
| Ethanol   | ND  |         | ug/L          | 45.1               | 100                                   | 1  | 06/21/06 00:56        | SW846 8260B | 6063351   |
| urr: 1,2-Dichloroethane-d4 (70-130%)  | 104 %   |         |               |                    |                                       | 1  | 06/21/06 00:56        | SW846 8260B | 606335  |
| urr: Dibromofluoromethane (79-122%)   | 104 %   |         |               |                    |                                       | 1  | 06/21/06 00:56        | SW846 8260B | 606335  |
| urr: Toluene-d8 (78-121%)   | 116 %   |         |               |                    |                                       | -  | 06/21/06 00:56        | SW846 8260B | 606335  |
| urr: 4-Bromofluorobenzene (78-126%)   | 105 %   |         |               |                    |                                       |  | 06/21/06 00:56        | SW846 8260B | 606335  |
| Extractable Petroleum Hydrocarbons  |   |         |               |                    |                                       | -  |                       |             |   |
| Diesel  | 163   | QSG     | ug/L          | 36.4               | 95.7                                  | 1  | 06/23/06 02:25        | NWTPH-Dx    | 6062451   |
| Notor Oil   | 329   | QSG     | ug/L          | 36.4               | 95.7                                  | 1  | 06/23/06 02:25        | NWTPH-Dx    | 6062451   |
| urr: o-Terphenyl (51-142%)  | 83 %  | -       |               |                    |                                       |  | 06/23/06 02:25        | NWTPH-Dx    | 606245  |
| Purgeable Petroleum Hydrocarbons  |   |         |               |                    |                                       | 1  | 00,20,000 02.20       |             |   |
| GRO as Gasoline   | ND  |         |               | 40.0               | 100                                   | 1  | 0.0000000000          | NUTDU O.    | (0(2711   |
| urr: a,a,a-Trifluorotoluene (63-134%)   | 85 %  |         | ug/L          | 40.0               | 100                                   |  | 06/20/06 00:41        | NWTPH-Gx    | 6063711   |
|   | 05 70   |         |               |                    |                                       | 1  | 06/20/06 00:41        | NWTPH-Gx    | 606371  |
| ample ID: NPF1612-11 (HA5-060'<br>Selected Volatile Organic Compounds b   |   |         | ) Sampled:    | 06/07/06 11        | :15                                   |  |                       |             |   |
| lenzene   | 0.570   | J       | ug/L          | 0.290              | 1.00                                  | 1  | 06/21/06 01:26        | SW846 8260B | 6063351   |
| thylbenzene   | ND  |         | ug/L          | 0.340              | 1.00                                  |  | 06/21/06 01:26        | SW846 8260B | 6063351   |
| Aethyl tert-Butyl Ether   | ND  |         | ug/L          | 0.320              | 1.00                                  |  | 06/21/06 01:26        | SW846 8260B | 6063351   |
| oluene  | ND  |         | ug/L          | 0.280              | 1.00                                  |  | 06/21/06 01:26        | SW846 8260B | 6063351   |
| Cylenes, total  | ND  |         | ug/L          | 0.820              | 2.00                                  |  | 06/21/06 01:26        | SW846 8260B | 6063351   |
| thanol  | ND  |         | ug/L          | 45.1               | 100                                   | 1  | 06/21/06 01:26        | SW846 8260B | 6063351   |
| urr: 1,2-Dichloroethane-d4 (70-130%)  | 105 %   |         |               |                    |                                       | 1  | 06/21/06 01:26        | SW846 8260B | 606335.   |
| urr: Dibromofluoromethane (79-122%)   | 105 %   |         |               |                    |                                       |  | 06/21/06 01:26        | SW846 8260B | 6063352   |
|   |   |         |               |                    |                                       | *  |                       | · · · · · · |   |
| :: Toluene-d8 (78-121%)   | 118 %   |         |               |                    |                                       | 1  | 06/21/06 01:26        | SW846 8260B | 6063351   |

| ANALYTICAL TE   |                |             |              | 60 Foster Creighto                      | n Road Nashv     | ille, TN 37204 * 8                                    | 00-765-0980 * Fax 61 | 5-726-3404  |        |
|---|----------------|-------------|--------------|---|------------------|---|----------------------|-------------|--------|
| Client Acton Mickelson Environmental<br>5175 Hillsdale Circle, Suite 100<br>El Dorado Hills, CA 95762<br>Attn Jennifer Guthmiller | , Inc. (13785) |             |              | Work (<br>Project<br>Project<br>Receive | Name:<br>Number: | NPF1612<br>(06) Former R<br>13041.01<br>06/13/06 07:5 | enton Terminal #4    | 6-080       |        |
|   |                |             | ANALY        | TICAL REPO                              | )RT              |   |                      |             |        |
| Analyte   | Result         | Flag        | Units        | MDL                                     | MRL              | Dilution<br>Factor                                    | J                    | Method      | Batch  |
| Sample ID: NPF1612-11 (HA5-060  | 0706 - Grou    | nd Water    | ) - cont. Sa | mpled: 06/0                             | 7/06 11:1:       | 5   |                      |             |        |
| Extractable Petroleum Hydrocarbons  |                |             |              | -                                       | -                |   |                      |             |        |
| Diesel  | 205            | QSG         | ug/L         | 36.2                                    | 95.2             | 1   | 06/23/06 02:41       | NWTPH-Dx    | 606245 |
| Motor Oil   | 171            | QSG         | ug/L         | 36.2                                    | 95.2<br>95.2     | 1   | 06/23/06 02:41       | NWTPH-Dx    | 606245 |
| Surr: o-Terphenyl (51-142%)   | 75 %           | -           |              |   |                  | 1   | 06/23/06 02:41       | NWTPH-Dx    | 606245 |
| Purgeable Petroleum Hydrocarbons  |                |             |              |   |                  | -   |                      |             |        |
| GRO as Gasoline   | 173            |             | ug/L         | 40.0                                    | 100              | 1   | 06/20/06 01:15       | NWTPH-Gx    | 606371 |
| Surr: a,a,a-Trifluorotoluene (63-134%)  | 80 %           |             | ug) D        | 10.0                                    | 100              | 1   | 06/20/06 01:15       | NWTPH-Gx    | 606371 |
| Sample ID: NPF1612-12 (HA10-06  | (0706 Cma)     | and Wite 4. |              | 1. 0.0000000                            | <b>A A</b>       |   |                      |             |        |
| Extractable Petroleum Hydrocarbons  | 10/00 - Groi   | inu wate.   | r) Sampled   | 1: 00/0//06 1                           | .2:05            |   |                      |             |        |
| Diesel  | 999            | 080         | ~            | 25.0                                    | 04.2             |   |                      |             |        |
| Motor Oil   | 999<br>97.5    | QSG<br>QSG  | ug/L         | 35.8<br>35.8                            | 94.3<br>94.3     | 1   | 06/23/06 08:39       | NWTPH-Dx    | 606253 |
| Surr: o-Terphenyl (51-142%)   | 69%            | Qou         | ug/L         | 33.8                                    | 94.3             | 1   | 06/23/06 08:39       | NWTPH-Dx    | 606253 |
|   | 09 70          |             |              |   |                  | 1   | 06/23/06 08:39       | NWTPH-Dx    | 606253 |
| Sample ID: NPF1612-13 (W1-0607  | '06 - Groun    | d Water) (  | Sampled:     | 06/07/06 13:                            | 45               |   |                      |             |        |
| lected Volatile Organic Compounds   | by EPA Meth    | od 8260B    |              |   |                  |   |                      |             |        |
| Benzene   | 8680           |             | ug/L         | 29.0                                    | 100              | 100   | 06/20/06 22:30       | SW846 8260B | 606335 |
| Ethylbenzene  | 726            |             | ug/L         | 34.0                                    | 100              | 100   | 06/20/06 22:30       | SW846 8260B | 606335 |
| Methyl tert-Butyl Ether   | 48.5           |             | ug/L         | 0.320                                   | 1.00             | 1   | 06/19/06 23:46       | SW846 8260B | 606335 |

|  |             |        | ug D     |               | 100  | 100 | 00120100 22.30 | D 11 040 0200D | 0005551 |
|--|-------------|--------|----------|---------------|------|-----|----------------|----------------|---------|
| Ethylbenzene                           | 726         |        | ug/L     | 34.0          | 100  | 100 | 06/20/06 22:30 | SW846 8260B    | 6063351 |
| Methyl tert-Butyl Ether                | 48.5        |        | ug/L     | 0.320         | 1.00 | 1   | 06/19/06 23:46 | SW846 8260B    | 6063351 |
| Toluene                                | 6260        |        | ug/L     | 28.0          | 100  | 100 | 06/20/06 22:30 | SW846 8260B    | 6063351 |
| Xylenes, total                         | 8240        |        | ug/L     | 82.0          | 200  | 100 | 06/20/06 22:30 | SW846 8260B    | 6063351 |
| Ethanol                                | 134         |        | ug/L     | 45.1          | 100  | 1   | 06/19/06 23:46 | SW846 8260B    | 6063351 |
| Surr: 1,2-Dichloroethane-d4 (70-130%)  | 110 %       |        |          |               |      | 1   | 06/19/06 23:46 | SW846 8260B    | 6063351 |
| Surr: Dibromofluoromethane (79-122%)   | 106 %       |        |          |               |      | 1   | 06/19/06 23:46 | SW846 8260B    | 6063351 |
| Surr: Toluene-d8 (78-121%)             | 95 %        |        |          |               |      | 1   | 06/19/06 23:46 | SW846 8260B    | 6063351 |
| Surr: 4-Bromofluorobenzene (78-126%)   | 126 %       |        |          |               |      | 1   | 06/19/06 23:46 | SW846 8260B    | 6063351 |
| Extractable Petroleum Hydrocarbons     |             |        |          |               |      |     |                |                |         |
| Diesel                                 | 7500        | QSG    | ug/L     | 71.4          | 188  | 2   | 06/23/06 11:08 | NWTPH-Dx       | 6062537 |
| Motor Oil                              | 337         | QSG    | ug/L     | 71.4          | 188  | 2   | 06/23/06 11:08 | NWTPH-Dx       | 6062537 |
| Surr: o-Terphenyl (51-142%)            | 122 %       |        |          |               |      | 2   | 06/23/06 11:08 | NWTPH-Dx       | 6062537 |
| Purgeable Petroleum Hydrocarbons       |             |        |          |               |      |     |                |                |         |
| <b>JRO as Gasoline</b>                 | 69500       |        | ug/L     | 2000          | 5000 | 50  | 06/20/06 11:30 | NWTPH-Gx       | 6063796 |
| Surr: a,a,a-Trifluorotoluene (63-134%) | 77 %        |        |          |               |      | 1   | 06/20/06 11:30 | NWTPH-Gx       | 6063796 |
| Sample ID: NPF1612-14 (D6-0607         | 06 - Ground | Water) | Sampled: | 06/07/06 14:3 | 30   |     |                |                |         |
| Selected Volatile Organic Compounds    |             |        |          |               |      |     |                |                |         |
| Benzene                                | 22.2        |        | ug/L     | 0.290         | 1.00 | 1   | 06/21/06 01:55 | SW846 8260B    | 6063351 |
| Ethylbenzene                           | 0.580       | J      | ug/L     | 0.340         | 1.00 | 1   | 06/21/06 01:55 | SW846 8260B    | 6063351 |
| Methyl tert-Butyl Ether                | ND          |        | ug/L     | 0.320         | 1.00 | 1   | 06/21/06 01:55 | SW846 8260B    | 6063351 |
| Toluene                                | 0.960       | J      | ug/L     | 0.280         | 1.00 | 1   | 06/21/06 01:55 | SW846 8260B    | 6063351 |
| enes, total                            | ND          |        | ug/L     | 0.820         | 2.00 | 1   | 06/21/06 01:55 | SW846 8260B    | 6063351 |
| Junanol                                | ND          |        | ug/L     | 45.1          | 100  | 1   | 06/21/06 01:55 | SW846 8260B    | 6063351 |
|  |             |        |          |               |      |     |                |                |         |

### 10302 MILLELIUA

ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Road Nashville, TN 37204 \* 800-765-0980 \* Fax 615-726-3404

| Client   | Acton Mickelson Environmental, Inc. (13785)<br>5175 Hillsdale Circle, Suite 100<br>El Dorado Hills, CA 95762<br>Jennifer Guthmiller | Work Order:<br>Project Name:<br>Project Number:<br>Received: | NPF1612<br>(06) Former Renton Terminal #46-080<br>13041.01<br>06/13/06 07:50 |  |
|--|---|--|--|--|
| CONTRACTOR OF A DESCRIPTION OF A DESCRIP |   |  |  |  |

#### ANALYTICAL REPORT

| Analyte                                | Result     | Flag     | Units       | MDL          | MRL        | Dilution<br>Factor | Analysis<br>Date/Time | Method      | Batch   |
|--|------------|----------|-------------|--------------|------------|--------------------|-----------------------|-------------|---------|
| Sample ID: NPF1612-14 (D6-0607         | 06 - Groun | d Water) | - cont. Sar | npled: 06/07 | //06 14:30 |                    |                       |             |         |
| Selected Volatile Organic Compounds    |            |          |             |              |            |                    |                       |             |         |
| Surr: 1,2-Dichloroethane-d4 (70-130%)  | 106 %      |          |             |              |            | 1                  | 06/21/06 01:55        | SW846 8260B | 6063351 |
| Surr: Dibromofluoromethane (79-122%)   | 108 %      |          |             |              |            |                    | 06/21/06 01:55        | SW846 8260B | 6063351 |
| Surr: Toluene-d8 (78-121%)             | 115 %      |          |             |              |            | 1                  | 06/21/06 01:55        | SW846 8260B | 6063351 |
| Surr: 4-Bromofluorobenzene (78-126%)   | 106 %      |          |             |              |            | 1<br>1             | 06/21/06 01:55        | SW846 8260B | 6063351 |
| Extractable Petroleum Hydrocarbons     |            |          |             |              |            | _                  |                       |             |         |
| Diesel                                 | 1580       | QSG      | ug/L        | 36.2         | 95.2       | 1                  | 06/23/06 09:16        | NWTPH-Dx    | 6062537 |
| Motor Oil                              | 1050       | QSG      | ug/L        | 36.2         | 95.2       | 1                  | 06/23/06 09:16        | NWTPH-Dx    | 6062537 |
| Surr: o-Terphenyl (51-142%)            | 66 %       |          |             |              |            | 1                  | 06/23/06 09:16        | NWTPH-Dx    | 6062537 |
| Purgeable Petroleum Hydrocarbons       |            |          |             |              |            |                    |                       |             |         |
| GRO as Gasoline                        | 342        |          | ug/L        | 40.0         | 100        | 1                  | 06/20/06 02:23        | NWTPH-Gx    | 6063711 |
| Surr: a,a,a-Trifluorotoluene (63-134%) | 122 %      |          |             |              |            | 1                  | 06/20/06 02:23        | NWTPH-Gx    | 6063711 |
| Sample ID: NPF1612-15 (D7-06070        | )6 - Groun | d Water) | Sampled:    | 06/07/06 15: | 05         |                    |                       |             |         |
| 'ected Volatile Organic Compounds I    |            |          |             |              |            |                    |                       |             |         |
| nzene                                  | 70.4       |          | ug/L        | 0.290        | 1.00       | 1                  | 06/21/06 02:24        | SW846 8260B | 6063351 |
| Ethylbenzene                           | ND         |          | ug/L        | 0.340        | 1.00       | 1                  | 06/21/06 02:24        | SW846 8260B | 6063351 |
| Methyl tert-Butyl Ether                | ND         |          | ug/L        | 0.320        | 1.00       | 1                  | 06/21/06 02:24        | SW846 8260B | 6063351 |
| Toluene                                | 2.94       |          | ug/L        | 0.280        | 1.00       | 1                  | 06/21/06 02:24        | SW846 8260B | 6063351 |
| Xylenes, total                         | ND         |          | ug/L        | 0.820        | 2.00       | 1                  | 06/21/06 02:24        | SW846 8260B | 6063351 |
| Ethanol                                | ND         |          | ug/L        | 45.1         | 100        | 1                  | 06/21/06 02:24        | SW846 8260B | 6063351 |
| Surr: 1,2-Dichloroethane-d4 (70-130%)  | 103 %      |          |             |              |            | 1                  | 06/21/06 02:24        | SW846 8260B | 6063351 |
| _'urr: Dibromofluoromethane (79-122%)  | 105 %      |          |             |              |            | 1                  | 06/21/06 02:24        | SW846 8260B | 6063351 |
| Surr: Toluene-d8 (78-121%)             | 111 %      |          |             |              |            | 1                  | 06/21/06 02:24        | SW846 8260B | 6063351 |
| 'urr: 4-Bromofluorobenzene (78-126%)   | 103 %      |          |             |              |            | I                  | 06/21/06 02:24        | SW846 8260B | 6063351 |
| Extractable Petroleum Hydrocarbons     |            |          |             |              |            |                    |                       |             |         |
| Diesel                                 | 3760       | QSG      | ug/L        | 362          | 952        | 10                 | 06/23/06 09:34        | NWTPH-Dx    | 6062537 |
| Aotor Oil                              | 9490       | QSG      | ug/L        | 362          | 952        | 10                 | 06/23/06 09:34        | NWTPH-Dx    | 6062537 |
| 'urr: o-Terphenyl (51-142%)            | *          | Z3       | 1           |              |            | 10                 | 06/23/06 09:34        | NWTPH-Dx    | 6062537 |
| Purgeable Petroleum Hydrocarbons       |            |          |             |              |            |                    |                       |             |         |
| GRO as Gasoline                        | 281        |          | ug/L        | 40.0         | 100        | 1                  | 06/20/06 02:56        | NWTPH-Gx    | 6063711 |
| ~urr: a,a,a-Trifluorotoluene (63-134%) | 89 %       |          |             |              |            | 1                  | 06/20/06 02:56        | NWTPH-Gx    | 6063711 |
| Gample ID: NPF1612-16 (HA1-060)        | 706 - Grou | nd Water | ) Sampled:  | 06/07/06 15  | :30        |                    |                       |             |         |
| Selected Volatile Organic Compounds b  | y EPA Meth | od 8260B |             |              |            |                    |                       |             |         |
| Benzene                                | ND         |          | ug/L        | 0.290        | 1.00       | 1                  | 06/21/06 02:54        | SW846 8260B | 6063351 |
| Ethylbenzene                           | ND         |          | ug/L        | 0.340        | 1.00       |                    | 06/21/06 02:54        | SW846 8260B | 6063351 |
| Aethyl tert-Butyl Ether                | ND         |          | ug/L        | 0.320        | 1.00       |                    | 06/21/06 02:54        | SW846 8260B | 6063351 |
| Foluene                                | ND         |          | ug/L        | 0.280        | 1.00       |                    | 06/21/06 02:54        | SW846 8260B | 6063351 |
| enes, total                            | ND         |          | ug/L        | 0.820        | 2.00       |                    | 06/21/06 02:54        | SW846 8260B | 6063351 |
| anol                                   | ND         |          | ug/L        | 45.1         | 100        | 1                  | 06/21/06 02:54        | SW846 8260B | 6063351 |

#### IUSULMIUTIUA ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Road Nashville, TN 37204 \* 800-765-0980 \* Fax 615-726-3404

NPF1612

13041.01

06/13/06 07:50

(06) Former Renton Terminal #46-080

| ent | Acton Mickelson Environmental, Inc. (13785) |
|-----|---|
|     | 5175 Hillsdale Circle, Suite 100            |
|     | El Dorado Hills, CA 95762                   |

Jennifer Guthmiller

n

#### ANALYTICAL REPORT

Work Order: Project Name:

Received:

Project Number:

| Analyte                               | Result     | Flag         | Units     | MDL          | MRL         | Dilution<br>Factor | 5              | Method      | Batch   |
|---------------------------------------|------------|--------------|-----------|--------------|-------------|--------------------|----------------|-------------|---------|
| aple ID: NPF1612-16 (HA1-060          | 706 - Groi | und Water)   | - cont. S | ampled: 06/( | 07/06 15:30 |                    |                |             |         |
| Selected Volatile Organic Compounds b | by EPA Me  | thod 8260B - | cont.     |              |             |                    |                |             |         |
| y 1,2-Dichloroethane-d4 (70-130%)     | 104 %      |              |           |              |             | 1                  | 06/21/06 02:54 | SW846 8260B | 6063351 |
| Dibromofluoromethane (79-122%)        | 106 %      |              |           |              |             | 1                  | 06/21/06 02:54 | SW846 8260B | 6063351 |
| urr: Toluene-d8 (78-121%)             | 113 %      |              |           |              |             | 1                  | 06/21/06 02:54 | SW846 8260B | 6063351 |
| err: 4-Bromofluorobenzene (78-126%)   | 104 %      |              |           |              |             | 1                  | 06/21/06 02:54 | SW846 8260B | 6063351 |
| ractable Petroleum Hydrocarbons       |            |              |           |              |             |                    |                |             |         |
| viesel                                | ND         | QSG, S10     | ug/L      | 35.8         | 94.3        | 1                  | 06/23/06 09:53 | NWTPH-Dx    | 6062537 |
| ा oil                                 | 92.7       | QSG, S10, J  | ug/L      | 35.8         | 94.3        | 1                  | 06/23/06 09:53 | NWTPH-Dx    | 6062537 |
| o-Terphenyl (51-142%)                 | 48 %       | Z6           |           |              |             | 1                  | 06/23/06 09:53 | NWTPH-Dx    | 6062537 |
| urgeable Petroleum Hydrocarbons       |            |              |           |              |             |                    |                |             |         |
| ⊂ ) as Gasoline                       | ND         |              | ug/L      | 40.0         | 100         | 1                  | 06/20/06 03:31 | NWTPH-Gx    | 6063711 |
| a,a,a-Trifluorotoluene (63-134%)      | 85 %       |              | -         |              |             | 1                  | 06/20/06 03:31 | NWTPH-Gx    | 6063711 |
| ample ID: NPF1612-17 (DUPE-1-6        | )60706 - V | Vater) Sam   | pled: 06/ | 07/06        |             |                    |                |             |         |
| d Volatile Organic Compounds b        |            |              |           |              |             |                    |                |             |         |
| U114                                  | ND         |              | ug/L      | 0.290        | 1.00        | 1                  | 06/21/06 03:23 | SW846 8260B | 6063351 |
| thylbenzene                           | ND         |              | ug/L      | 0.340        | 1.00        | 1                  | 06/21/06 03:23 | SW846 8260B | 6063351 |
| yl tert-Butyl Ether                   | ND         |              | ug/L      | 0.320        | 1.00        | 1                  | 06/21/06 03:23 | SW846 8260B | 6063351 |
| ene                                   | ND         |              | ug/L      | 0.280        | 1.00        | 1                  | 06/21/06 03:23 | SW846 8260B | 6063351 |
| ylenes, total                         | ND         |              | ug/L      | 0.820        | 2.00        | 1                  | 06/21/06 03:23 | SW846 8260B | 6063351 |
| hanol                                 | ND         |              | ug/L      | 45.1         | 100         | 1                  | 06/21/06 03:23 | SW846 8260B | 6063351 |
| 1,2-Dichloroethane-d4 (70-130%)       | 105 %      |              |           |              |             | 1                  | 06/21/06 03:23 | SW846 8260B | 6063351 |
| Dibromofluoromethane (79-122%)        | 107 %      |              |           |              |             | 1                  | 06/21/06 03:23 | SW846 8260B | 6063351 |
| rr: Toluene-d8 (78-121%)              | 116%       |              |           |              |             | 1                  | 06/21/06 03:23 | SW846 8260B | 6063351 |
| 4-Bromofluorobenzene (78-126%)        | 102 %      |              |           |              |             | 1                  | 06/21/06 03:23 | SW846 8260B | 6063351 |
| xtractable Petroleum Hydrocarbons     |            |              |           |              |             |                    |                |             |         |
| lesel                                 | ND         | QSG          | ug/L      | 36.2         | 95.2        | 1                  | 06/23/06 02:57 | NWTPH-Dx    | 6062451 |
| r Oil                                 | 125        | QSG          | ug/L      | 36.2         | 95.2        | 1                  | 06/23/06 02:57 | NWTPH-Dx    | 6062451 |
| o-Terphenyl (51-142%)                 | 71 %       |              |           |              |             | 1                  | 06/23/06 02:57 | NWTPH-Dx    | 6062451 |
| urgeable Petroleum Hydrocarbons       |            |              |           |              |             |                    |                |             |         |
| as Gasoline                           | ND         |              | ug/L      | 40.0         | 100         | 1                  | 06/20/06 04:05 | NWTPH-Gx    | 6063711 |
| a,a,a-Trifluorotoluene (63-134%)      | 86 %       |              |           |              |             | 1                  | 06/20/06 04:05 | NWTPH-Gx    | 6063711 |

2960 Foster Creighton Road Nashville, TN 37204 \* 800-765-0980 \* Fax 615-726-3404

Acton Mickelson Environmental, Inc. (13785) ent 5175 Hillsdale Circle, Suite 100 El Dorado Hills, CA 95762

Jennifer Guthmiller n

Work Order: Project Name: Project Number: Received:

NPF1612 (06) Former Renton Terminal #46-080 13041.01 06/13/06 07:50

#### SAMPLE EXTRACTION DATA

| arameter                       | Batch   | Lab Number    | Wt/Vol<br>Extracted | Extracted Vol | Date           | Analyst | Extraction<br>Method |
|--------------------------------|---------|---------------|---------------------|---------------|----------------|---------|----------------------|
| actable Petroleum Hydrocarbons |         |               |                     |               |                |         |                      |
| WTPH-Dx                        | 6062451 | NPF1612-02    | 1000.00             | 1.00          | 06/13/06 13:48 | CEC     | EPA 3510C            |
| NWTPH-Dx                       | 6062451 | NPF1612-02RE1 | 1000.00             | 1.00          | 06/13/06 13:48 | CEC     | EPA 3510C            |
| TWTPH-Dx                       | 6062451 | NPF1612-03    | 1030.00             | 1.00          | 06/13/06 13:48 | CEC     | EPA 3510C            |
| IWTPH-Dx                       | 6062451 | NPF1612-03RE1 | 1030.00             | 1.00          | 06/13/06 13:48 | CEC     | EPA 3510C            |
| NWTPH-Dx                       | 6062451 | NPF1612-04    | 600.00              | 1.00          | 06/13/06 13:48 | CEC     | EPA 3510C            |
| NWTPH-Dx                       | 6062451 | NPF1612-05    | 1050.00             | 1.00          | 06/13/06 13:48 | CEC     | EPA 3510C            |
| WTPH-Dx                        | 6062451 | NPF1612-06    | 1045.00             | 1.00          | 06/13/06 13:48 | CEC     | EPA 3510C            |
| . WTPH-Dx                      | 6062451 | NPF1612-06RE1 | 1045.00             | 1.00          | 06/13/06 13:48 | CEC     | EPA 3510C            |
| NWTPH-Dx                       | 6062451 | NPF1612-07    | 1050.00             | 1.00          | 06/13/06 13:48 | CEC     | EPA 3510C            |
| WTPH-Dx                        | 6062451 | NPF1612-07RE1 | 1050.00             | 1.00          | 06/13/06 13:48 | CEC     | EPA 3510C            |
| WTPH-Dx                        | 6062451 | NPF1612-08    | 1060.00             | 1.00          | 06/13/06 13:48 | CEC     | EPA 3510C            |
| NWTPH-Dx                       | 6062451 | NPF1612-10    | 1045.00             | 1.00          | 06/13/06 13:48 | CEC     | EPA 3510C            |
| ™WTPH-Dx                       | 6062451 | NPF1612-11    | 1050.00             | 1.00          | 06/13/06 13:48 | CEC     | EPA 3510C            |
| WTPH-Dx                        | 6062537 | NPF1612-12    | 1060.00             | 1.00          | 06/14/06 11:35 | CEC     | EPA 3510C            |
| NWTPH-Dx                       | 6062537 | NPF1612-13    | 1065.00             | 1.00          | 06/14/06 11:35 | CEC     | EPA 3510C            |
| NWTPH-Dx                       | 6062537 | NPF1612-13RE1 | 1065.00             | 1.00          | 06/14/06 11:35 | CEC     | EPA 3510C            |
| TH-Dx                          | 6062537 | NPF1612-14    | 1050.00             | 1.00          | 06/14/06 11:35 | CEC     | EPA 3510C            |
| ./H-Dx                         | 6062537 | NPF1612-15    | 1050.00             | 1.00          | 06/14/06 11:35 | CEC     | EPA 3510C            |
| NWTPH-Dx                       | 6062537 | NPF1612-16    | 1060.00             | 1.00          | 06/14/06 11:35 | CEC     | EPA 3510C            |
| WTPH-Dx                        | 6062451 | NPF1612-17    | 1050.00             | 1.00          | 06/13/06 13:48 | CEC     | EPA 3510C            |

### 10002 MILLIUA

ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Road Nashville, TN 37204 \* 800-765-0980 \* Fax 615-726-3404

| Client | Acton Mickelson Environmental, Inc. (13785) |
|--------|---|
|        | 5175 Hillsdale Circle, Suite 100            |
|        | El Dorado Hills, CA 95762                   |

Attn Jennifer Guthmiller

Work Order: Project Name: Project Number: Received: NPF1612 (06) Former Renton Terminal #46-080 13041.01 06/13/06 07:50

#### PROJECT QUALITY CONTROL DATA

Blank

| Analyte                          | Blank Value (             | Q Units | Q.C. Batch | Lab Number   | Analyzed Date/Time |  |
|----------------------------------|---------------------------|---------|------------|--------------|--------------------|--|
| Selected Volatile Organic Comp   | ounds by EPA Method 82601 | В       |            |              |                    |  |
| 6063351-BLK1                     |                           |         |            |              |                    |  |
| Benzene                          | <0.290                    | ug/L    | 6063351    | 6063351-BLK1 | 06/19/06 22:48     |  |
| Ethylbenzene                     | < 0.340                   | ug/L    | 6063351    | 6063351-BLK1 | 06/19/06 22:48     |  |
| Methyl tert-Butyl Ether          | <0.320                    | ug/L    | 6063351    | 6063351-BLK1 | 06/19/06 22:48     |  |
| Toluene                          | <0.280                    | ug/L    | 6063351    | 6063351-BLK1 | 06/19/06 22:48     |  |
| Xylenes, total                   | <0.820                    | ug/L    | 6063351    | 6063351-BLK1 | 06/19/06 22:48     |  |
| Ethanol                          | <45.1                     | ug/L    | 6063351    | 6063351-BLK1 | 06/19/06 22:48     |  |
| Surrogate: 1,2-Dichloroethane-d4 | 97%                       |         | 6063351    | 6063351-BLK1 | 06/19/06 22:48     |  |
| Surrogate: 1,2-Dichloroethane-d4 | 97%                       |         | 6063351    | 6063351-BLK1 | 06/19/06 22:48     |  |
| Surrogate: Dibromofluoromethane  | 99%                       |         | 6063351    | 6063351-BLK1 | 06/19/06 22:48     |  |
| Surrogate: Dibromofluoromethane  | 99%                       |         | 6063351    | 6063351-BLK1 | 06/19/06 22:48     |  |
| Surrogate: Toluene-d8            | 103%                      |         | 6063351    | 6063351-BLK1 | 06/19/06 22:48     |  |
| Surrogate: Toluene-d8            | 103%                      |         | 6063351    | 6063351-BLK1 | 06/19/06 22:48     |  |
| Surrogate: 4-Bromofluorobenzene  | 118%                      |         | 6063351    | 6063351-BLK1 | 06/19/06 22:48     |  |
| Surrogate: 4-Bromofluorobenzene  | 118%                      |         | 6063351    | 6063351-BLK1 | 06/19/06 22:48     |  |
| J63351-BLK2                      |                           |         |            |              |                    |  |
| Benzene                          | <0.290                    | ug/L    | 6063351    | 6063351-BLK2 | 06/20/06 20:33     |  |
| Ethylbenzene                     | <0.340                    | ug/L    | 6063351    | 6063351-BLK2 | 06/20/06 20:33     |  |
| Methyl tert-Butyl Ether          | <0.320                    | ug/L    | 6063351    | 6063351-BLK2 | 06/20/06 20:33     |  |
| Toluene                          | <0.280                    | ug/L    | 6063351    | 6063351-BLK2 | 06/20/06 20:33     |  |
| Xylenes, total                   | <0.820                    | ug/L    | 6063351    | 6063351-BLK2 | 06/20/06 20:33     |  |
| Ethanol                          | <45.1                     | ug/L    | 6063351    | 6063351-BLK2 | 06/20/06 20:33     |  |
| Surrogate: 1,2-Dichloroethane-d4 | 101%                      |         | 6063351    | 6063351-BLK2 | 06/20/06 20:33     |  |
| Surrogate: 1,2-Dichloroethane-d4 | 101%                      |         | 6063351    | 6063351-BLK2 | 06/20/06 20:33     |  |
| Surrogate: Dibromofluoromethane  | 103%                      |         | 6063351    | 6063351-BLK2 | 06/20/06 20:33     |  |
| Surrogate: Dibromofluoromethane  | 103%                      |         | 6063351    | 6063351-BLK2 | 06/20/06 20:33     |  |
| Surrogate: Toluene-d8            | 103%                      |         | 6063351    | 6063351-BLK2 | 06/20/06 20:33     |  |
| Surrogate: Toluene-d8            | 103%                      |         | 6063351    | 6063351-BLK2 | 06/20/06 20:33     |  |
| Surrogate: 4-Bromofluorobenzene  | 110%                      |         | 6063351    | 6063351-BLK2 | 06/20/06 20:33     |  |
| Surrogate: 4-Bromofluorobenzene  | 110%                      |         | 6063351    | 6063351-BLK2 | 06/20/06 20:33     |  |
| Extractable Petroleum Hydrocarl  | bons                      |         |            |              |                    |  |
| 6062451-BLK2                     |                           |         |            |              |                    |  |
| Diesel                           | <38.0                     | ug/L    | 6062451    | 6062451-BLK2 | 06/23/06 17:32     |  |
| Motor Oil                        | <38.0                     | ug/L    | 6062451    | 6062451-BLK2 | 06/23/06 17:32     |  |
| Surrogate: o-Terphenyl           | 60%                       |         | 6062451    | 6062451-BLK2 | 06/23/06 17:32     |  |
| 3062537-BLK1                     |                           |         |            |              |                    |  |
| Diesel                           | <38.0                     | ug/L    | 6062537    | 6062537-BLK1 | 06/23/06 08:02     |  |
| Motor Oil                        | <38.0                     | ug/L    | 6062537    | 6062537-BLK1 | 06/23/06 08:02     |  |
| gate: o-Terphenyl                | 61%                       |         | 6062537    | 6062537-BLK1 | 06/23/06 08:02     |  |

#### <u>\_\_\_\_\_</u> **OVENINI IVU**

ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Road Nashville, TN 37204 \* 800-765-0980 \* Fax 615-726-3404

Client Acton Mickelson Environmental, Inc. (13785) 5175 Hillsdale Circle, Suite 100 El Dorado Hills, CA 95762

Jennifer Guthmiller Attn

Work Order: NPF1612 Project Name: 13041.01 Project Number: Received:

(06) Former Renton Terminal #46-080 06/13/06 07:50

#### PROJECT QUALITY CONTROL DATA

Blank - Cont.

| Analyte                           | Blank Value | Q | Units | Q.C. Batch | Lab Number   | Analyzed Date/Time |
|-----------------------------------|-------------|---|-------|------------|--------------|--------------------|
| Purgeable Petroleum Hydrocarbons  |             |   |       |            |              |                    |
| 6063711-BLK1                      |             |   |       |            |              |                    |
| GRO as Gasoline                   | <40.0       |   | ug/L  | 6063711    | 6063711-BLK1 | 06/19/06 18:27     |
| Surrogate: a,a,a-Trifluorotoluene | 83%         |   |       | 6063711    | 6063711-BLK1 | 06/19/06 18:27     |
| 6063796-BLK1                      |             |   |       |            |              |                    |
| GRO as Gasoline                   | <40.0       |   | ug/L  | 6063796    | 6063796-BLK1 | 06/20/06 09:08     |
| Surrogate: a,a,a-Trifluorotoluene | 85%         |   |       | 6063796    | 6063796-BLK1 | 06/20/06 09:08     |
|                                   |             |   |       |            |              |                    |

#### 10002 MILLING ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Road Nashville, TN 37204 \* 800-765-0980 \* Fax 615-726-3404

Client Acton Mickelson Environmental, Inc. (13785) 5175 Hillsdale Circle, Suite 100 El Dorado Hills, CA 95762

Attn Jennifer Guthmiller

Work Order: Project Name: Project Number: 13041.01 Received:

NPF1612 (06) Former Renton Terminal #46-080 06/13/06 07:50

#### PROJECT QUALITY CONTROL DATA

LCS

| Analyte                           | Known Val.           | Analyzed Val | Q | Units | % Rec. | Target<br>Range           | Batch   | Analyzed<br>Date/Time |
|-----------------------------------|----------------------|--------------|---|-------|--------|---------------------------|---------|-----------------------|
| Selected Volatile Organic Compour | nds by EPA Method 82 | 60B          |   |       |        | • • • • • • • • • • • • • |         |                       |
| 6063351-BS1                       |                      |              |   |       |        |                           |         |                       |
| Benzene                           | 50.0                 | 48.0         |   | ug/L  | 96%    | 78 - 122                  | 6063351 | 06/19/06 21:49        |
| Ethylbenzene                      | 50.0                 | 55.8         |   | ug/L  | 112%   | 82 - 122                  | 6063351 | 06/19/06 21:49        |
| Methyl tert-Butyl Ether           | 50.0                 | 52.1         |   | ug/L  | 104%   | 65 - 144                  | 6063351 | 06/19/06 21:49        |
| Toluene                           | 50.0                 | 53.7         |   | ug/L  | 107%   | 80 - 120                  | 6063351 | 06/19/06 21:49        |
| Xylenes, total                    | 150                  | 169          |   | ug/L  | 113%   | 81 - 125                  | 6063351 | 06/19/06 21:49        |
| Ethanol                           | 5000                 | 4170         |   | ug/L  | 83%    | 33 - 160                  | 6063351 | 06/19/06 21:49        |
| Surrogate: 1,2-Dichloroethane-d4  | 50.0                 | 52.8         |   |       | 106%   | 70 - 130                  | 6063351 | 06/19/06 21:49        |
| Surrogate: 1,2-Dichloroethane-d4  | 50.0                 | 52.8         |   |       | 106%   | 70 - 130                  | 6063351 | 06/19/06 21:49        |
| Surrogate: Dibromofluoromethane   | 50.0                 | 52.8         |   |       | 106%   | 79 - 122                  | 6063351 | 06/19/06 21:49        |
| Surrogate: Dibromofluoromethane   | 50.0                 | 52.8         |   |       | 106%   | 79 - 122                  | 6063351 | 06/19/06 21:49        |
| Surrogate: Toluene-d8             | 50.0                 | 55.8         |   |       | 112%   | 78 - 121                  | 6063351 | 06/19/06 21:49        |
| Surrogate: Toluene-d8             | 50.0                 | 55.8         |   |       | 112%   | 78 - 121                  | 6063351 | 06/19/06 21:49        |
| Surrogate: 4-Bromofluorobenzene   | 50.0                 | 54.1         |   |       | 108%   | 78 - 126                  | 6063351 | 06/19/06 21:49        |
| Surrogate: 4-Bromofluorobenzene   | 50.0                 | 54.1         |   |       | 108%   | 78 - 126                  | 6063351 | 06/19/06 21:49        |
| 5063351-BS2                       |                      |              |   |       |        |                           |         |                       |
| Benzene                           | 50.0                 | 50.2         |   | ug/L  | 100%   | 78 - 122                  | 6063351 | 06/20/06 19:34        |
| Ethylbenzene                      | 50.0                 | 57.7         |   | ug/L  | 115%   | 82 - 122                  | 6063351 | 06/20/06 19:34        |
| Methyl tert-Butyl Ether           | 50.0                 | 57.2         |   | ug/L  | 114%   | 65 - 144                  | 6063351 | 06/20/06 19:34        |
| Foluene                           | 50.0                 | 56.2         |   | ug/L  | 112%   | 80 - 120                  | 6063351 | 06/20/06 19:34        |
| Xylenes, total                    | 150                  | 174          |   | ug/L  | 116%   | 81 - 125                  | 6063351 | 06/20/06 19:34        |
| Ethanol                           | 5000                 | 5030         |   | ug/L  | 101%   | 33 - 160                  | 6063351 | 06/20/06 19:34        |
| Surrogate: 1,2-Dichloroethane-d4  | 50.0                 | 52.9         |   |       | 106%   | 70 - 130                  | 6063351 | 06/20/06 19:34        |
| Surrogate: 1,2-Dichloroethane-d4  | 50.0                 | 52.9         |   |       | 106%   | 70 - 130                  | 6063351 | 06/20/06 19:34        |
| Surrogate: Dibromofluoromethane   | 50.0                 | 52.2         |   |       | 104%   | 79 - 122                  | 6063351 | 06/20/06 19:34        |
| Surrogate: Dibromofluoromethane   | 50.0                 | 52.2         |   |       | 104%   | 79 - 122                  | 6063351 | 06/20/06 19:34        |
| Surrogate: Toluene-d8             | 50.0                 | 54.3         |   |       | 109%   | 78 - 121                  | 6063351 | 06/20/06 19:34        |
| Surrogate: Toluene-d8             | 50.0                 | 54.3         |   |       | 109%   | 78 - 121                  | 6063351 | 06/20/06 19:34        |
| Surrogate: 4-Bromofluorobenzene   | 50.0                 | 53.1         |   |       | 106%   | 78 - 126                  | 6063351 | 06/20/06 19:34        |
| Surrogate: 4-Bromofluorobenzene   | 50.0                 | 53.1         |   |       | 106%   | 78 - 126                  | 6063351 | 06/20/06 19:34        |
| xtractable Petroleum Hydrocarboi  | ns                   |              |   |       |        |                           |         |                       |
| 062451-BS1                        | •                    |              |   |       |        |                           |         |                       |
| Diesel                            | 1000                 | 756          |   | ug/L  | 76%    | 56 - 116                  | 6062451 | 06/22/06 23:40        |
| Surrogate: o-Terphenyl            | 20.0                 | 15.8         |   | -     | 79%    | 51 - 142                  | 6062451 | 06/22/06 23:40        |
| 062537-BS1                        |                      |              |   |       |        |                           |         |                       |
| Diesel                            | 1000                 | 915          |   | ug/L  | 92%    | 56 - 116                  | 6062537 | 06/23/06 08:21        |
| Surrogate: o-Terphenyl            | 20.0                 | 16.3         |   |       | 82%    | 51 - 142                  | 6062537 | 06/23/06 08:21        |
|                                   |                      |              |   |       |        |                           |         |                       |

eable Petroleum Hydrocarbons

5063711-BS1

### 1030 MILLIUA

2960 Foster Creighton Road Nashville, TN 37204 \* 800-765-0980 \* Fax 615-726-3404

ANALYTICAL TESTING CORPORATION

Acton Mickelson Environmental, Inc. (13785) Client 5175 Hillsdale Circle, Suite 100 El Dorado Hills, CA 95762

Jennifer Guthmiller Attn

NPF1612 Work Order: Project Name: (06) Former Renton Terminal #46-080 Project Number: 13041.01 06/13/06 07:50 Received:

#### PROJECT QUALITY CONTROL DATA

LCS - Cont.

| المعالم                           | Known Val. | Analyzed Val | Q    | Units | % Rec. | Target<br>Range | Batch   | Analyzed<br>Date/Time |
|-----------------------------------|------------|--------------|------|-------|--------|-----------------|---------|-----------------------|
| Purgeable Petroleum Hydrocarbons  |            |              |      |       |        |                 |         |                       |
| 6063711-BS1                       |            |              |      |       |        |                 |         |                       |
| GRO as Gasoline                   | 1000       | 1040         |      | ug/L  | 104%   | 66 - 132        | 6063711 | 06/20/06 05:47        |
| Surrogate: a,a,a-Trifluorotoluene | 30.0       | 27.1         |      |       | 90%    | 63 - 134        | 6063711 | 06/20/06 05:47        |
| 3063796-BS1                       |            |              |      |       |        |                 |         |                       |
| GRO as Gasoline                   | 1000       | 1020         | MNR1 | ug/L  | 102%   | 66 - 132        | 6063796 | 06/20/06 12:38        |
| Surrogate: a,a,a-Trifluorotoluene | 30.0       | 27.3         |      |       | 91%    | 63 - 134        | 6063796 | 06/20/06 12:38        |

### 10302 MILLEI IVA

2960 Foster Creighton Road Nashville, TN 37204 \* 800-765-0980 \* Fax 615-726-3404

ANALYTICAL TESTING CORPORATION

Client Acton Mickelson Environmental, Inc. (13785) 5175 Hillsdale Circle, Suite 100 El Dorado Hills, CA 95762

Attn Jennifer Guthmiller

Work Order:NPF1612Project Name:(06) Former Renton Terminal #46-080Project Number:13041.01Received:06/13/06 07:50

#### PROJECT QUALITY CONTROL DATA

LCS Dup

| \nalyte  | Orig. Val. | Duplicate | Q | Units | Spike<br>Conc | % Rec. | Target<br>Range | RPD | Limit | Batch   | Sample<br>Duplicated | Analyzed<br>Date/Time |
|--|------------|-----------|---|-------|---------------|--------|-----------------|-----|-------|---------|----------------------|-----------------------|
| Purgeable Petroleum Hydrocarbons<br>5063711-BSD1 |            |           |   |       |               |        |                 |     |       |         |                      |                       |
| GRO as Gasoline                                  |            | 1020      |   | ug/L  | 1000          | 102%   | 66 - 132        | 2   | 36    | 6063711 |                      | 06/20/06 06:21        |
| Surrogate: a,a,a-Trifluorotoluene                |            | 27.3      |   | ug/L  | 30.0          | 91%    | 63 - 134        |     |       | 6063711 |                      | 06/20/06 06:21        |

### 10302 MILLIUA

ANALYTICAL TESTING CORPORATION

Client Acton Mickelson Environmental, Inc. (13785) 5175 Hillsdale Circle, Suite 100 El Dorado Hills, CA 95762

Jennifer Guthmiller Attn

2960 Foster Creighton Road Nashville, TN 37204 \* 800-765-0980 \* Fax 615-726-3404

Work Order: NPF1612 Project Name: (06) Former Renton Terminal #46-080 Project Number: 13041.01 Received: 06/13/06 07:50

#### PROJECT QUALITY CONTROL DATA

Matrix Spike

| Analyte                          | Orig. Val.     | MS Val     | Q   | Units | Spike Conc | % Rec.  | Target<br>Range | Batch   | Sample<br>Spiked | Analyzed<br>Date/Time |
|----------------------------------|----------------|------------|-----|-------|------------|---------|-----------------|---------|------------------|-----------------------|
| Selected Volatile Organic Compo  | unds by EPA Me | thod 8260B |     |       |            |         |                 |         |                  |                       |
| 6063351-MS1                      |                |            |     |       |            |         |                 |         |                  |                       |
| Benzene                          | 8680           | 2840       | MHA | ug/L  | 50.0       | -11700% | 74 - 133        | 6063351 | NPF1612-13       | 06/20/06 04:09        |
| Ethylbenzene                     | 726            | 987        | MHA | ug/L  | 50.0       | 522%    | 74 - 134        | 6063351 | NPF1612-13       | 06/20/06 04:09        |
| Methyl tert-Butyl Ether          | 48.5           | 104        |     | ug/L  | 50.0       | 111%    | 58 - 151        | 6063351 | NPF1612-13       | 06/20/06 04:09        |
| Toluene                          | 6260           | 2220       | MHA | ug/L  | 50.0       | -8080%  | 73 - 133        | 6063351 | NPF1612-13       | 06/20/06 04:09        |
| Xylenes, total                   | 8240           | 3730       | MHA | ug/L  | 150        | -3010%  | 68 - 139        | 6063351 | NPF1612-13       | 06/20/06 04:09        |
| Ethanol                          | 134            | 4860       |     | ug/L  | 5000       | 95%     | 28 - 166        | 6063351 | NPF1612-13       | 06/20/06 04:09        |
| Surrogate: 1,2-Dichloroethane-d4 |                | 55.1       |     | ug/L  | 50.0       | 110%    | 70 - 130        | 6063351 | NPF1612-13       | 06/20/06 04:09        |
| Surrogate: 1,2-Dichloroethane-d4 |                | 55.1       |     | ug/L  | 50.0       | 110%    | 70 - 130        | 6063351 | NPF1612-13       | 06/20/06 04:09        |
| Surrogate: Dibromofluoromethane  |                | 53.6       |     | ug/L  | 50.0       | 107%    | 79 - 122        | 6063351 | NPF1612-13       | 06/20/06 04:09        |
| Surrogate: Dibromofluoromethane  |                | 53.6       |     | ug/L  | 50.0       | 107%    | 79 - 122        | 6063351 | NPF1612-13       | 06/20/06 04:09        |
| Surrogate: Toluene-d8            |                | 46.7       |     | ug/L  | 50.0       | 93%     | 78 - 121        | 6063351 | NPF1612-13       | 06/20/06 04:09        |
| Surrogate: Toluene-d8            |                | 46.7       |     | ug/L  | 50.0       | 93%     | 78 - 121        | 6063351 | NPF1612-13       | 06/20/06 04:09        |
| Surrogate: 4-Bromofluorobenzene  |                | 61.0       |     | ug/L  | 50.0       | 122%    | 78 - 126        | 6063351 | NPF1612-13       | 06/20/06 04:09        |
| rogate: 4-Bromofluorobenzene     |                | 61.0       |     | ug/L  | 50.0       | 122%    | 78 - 126        | 6063351 | NPF1612-13       | 06/20/06 04:09        |

### 10502 MILLET IVA

ANALYTICAL TESTING CORPORATION 2960

Client Acton Mickelson Environmental, Inc. (13785) 5175 Hillsdale Circle, Suite 100 El Dorado Hills, CA 95762

Attn Jennifer Guthmiller

2960 Foster Creighton Road Nashville, TN 37204 \* 800-765-0980 \* Fax 615-726-3404

Work Order: Project Name: Project Number: Received: NPF1612 (06) Former Renton Terminal #46-080 13041.01 06/13/06 07:50

#### PROJECT QUALITY CONTROL DATA

Matrix Spike Dup

| Analyte                           | Orig. Val.  | Duplicate | Q   | Units | Spike<br>Conc | % Rec.  | Target<br>Range | RPD | Limit | Batch   | Sample<br>Duplicated | Analyzed<br>Date/Time |
|-----------------------------------|-------------|-----------|-----|-------|---------------|---------|-----------------|-----|-------|---------|----------------------|-----------------------|
| Selected Volatile Organic Compo   | unds by EPA | Method 82 | 60B |       |               |         |                 |     |       |         |                      |                       |
| 6063351-MSD1                      |             | 1         |     |       |               |         |                 |     |       |         |                      |                       |
| Benzene                           | 8680        | 2520      | MHA | ug/L  | 50.0          | -12300% | 74 - 133        | 12  | 19    | 6063351 | NPF1612-13           | 06/20/06 04:39        |
| Ethylbenzene                      | 726         | 895       | MHA | ug/L  | 50.0          | 338%    | 74 - 134        | 10  | 21    | 6063351 | NPF1612-13           | 06/20/06 04:39        |
| Methyl tert-Butyl Ether           | 48.5        | 106       |     | ug/L  | 50.0          | 115%    | 58 - 151        | 2   | 28    | 6063351 | NPF1612-13           | 06/20/06 04:39        |
| Toluene                           | 6260        | 1960      | MHA | ug/L  | 50.0          | -8600%  | 73 - 133        | 12  | 20    | 6063351 | NPF1612-13           | 06/20/06 04:39        |
| Xylenes, total                    | 8240        | 3260      | MHA | ug/L  | 150           | -3320%  | 68 - 139        | 13  | 23    | 6063351 | NPF1612-13           | 06/20/06 04:39        |
| Ethanol                           | 134 '       | 5030      |     | ug/L  | 5000          | 98%     | 28 - 166        | 3   | 47    | 6063351 | NPF1612-13           | 06/20/06 04:39        |
| .Surrogate: 1,2-Dichloroethane-d4 |             | 51.3      |     | ug/L  | 50.0          | 103%    | 70 - 130        |     |       | 6063351 | NPF1612-13           | 06/20/06 04:39        |
| Surrogate: 1,2-Dichloroethane-d4  |             | 51.3      |     | ug/L  | 50.0          | 103%    | 70 - 130        |     |       | 6063351 | NPF1612-13           | 06/20/06 04:39        |
| Surrogate: Dibromofluoromethane   |             | 51.6      |     | ug/L  | 50.0          | 103%    | 79 - 122        |     |       | 6063351 | NPF1612-13           | 06/20/06 04:39        |
| Surrogate: Dibromofluoromethane   |             | 51.6      |     | ug/L  | 50.0          | 103%    | 79 - 122        |     |       | 6063351 | NPF1612-13           | 06/20/06 04:39        |
| Surrogate: Toluene-d8             |             | 46.8      |     | ug/L  | 50.0          | 94%     | 78 - 121        |     |       | 6063351 | NPF1612-13           | 06/20/06 04:39        |
| Surrogate: Toluene-d8             |             | 46.8      |     | ug/L  | 50.0          | 94%     | 78 - 121        |     |       | 6063351 | NPF1612-13           | 06/20/06 04:39        |
| Surrogate: 4-Bromofluorobenzene   |             | 61.6      |     | ug/L  | 50.0          | 123%    | 78 - 126        |     | ,     | 6063351 | NPF1612-13           | 06/20/06 04:39        |
| Carrogate: 4-Bromofluorobenzene   |             | 61.6      |     | ug/L  | 50.0          | 123%    | 78 - 126        |     |       | 6063351 | NPF1612-13           | 06/20/06 04:39        |

2960 Foster Creighton Road Nashville, TN 37204 \* 800-765-0980 \* Fax 615-726-3404

| Client | Acton Mickelson Environmental, Inc. (13785) | Work Order:     | NPF1612                             |
|--------|---|-----------------|-------------------------------------|
|        | 5175 Hillsdale Circle, Suite 100            | Project Name:   | (06) Former Renton Terminal #46-080 |
|        | El Dorado Hills, CA 95762                   | Project Number: | 13041.01                            |
|        | Jennifer Guthmiller                         | Received:       | 06/13/06 07:50                      |
| ·      |   |                 |                                     |

#### **CERTIFICATION SUMMARY**

#### TestAmerica - Nashville, TN

| Method      | Matrix | AIHA | Nelac | Oregon |  |
|-------------|--------|------|-------|--------|--|
| NA          | Water  |      |       |        |  |
| NWTPH-Dx    | Water  | N/A  | х     | Х      |  |
| NWTPH-Gx    | Water  | N/A  | Х     | Х      |  |
| SW846 8260B | Water  | N/A  | Х     | Х      |  |



2960 Foster Creighton Road Nashville, TN 37204 \* 800-765-0980 \* Fax 615-726-3404

c ent Acton Mickelson Environmental, Inc. (13785)
 5175 Hillsdale Circle, Suite 100
 El Dorado Hills, CA 95762

I n Jennifer Guthmiller

Work Order:NPF1612Project Name:(06) Former Renton Terminal #46-080Project Number:13041.01Received:06/13/06 07:50

#### NELAC CERTIFICATION SUMMARY

TestAmerica Analytical - Nashville does not hold NELAC certifications for the following analytes included in this report

I thod

<u>Matrix</u>

<u>Analyte</u>

Client Acton Mickelson Environmental, Inc. (13785) 5175 Hillsdale Circle, Suite 100 El Dorado Hills, CA 95762

Attn Jennifer Guthmiller

Work Order:NPF1612Project Name:(06) Former Renton Terminal #46-080Project Number:13041.01Received:06/13/06 07:50

#### DATA QUALIFIERS AND DEFINITIONS

- J Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). Concentrations within this range are estimated.
- MHA Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
- MNR1 There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike.
- QSG Silica Gel clean-up performed on extracts.
- S10 Insufficient sample available for reanalysis.
- Z Due to sample matrix effects, the surrogate recovery was below the acceptance limits.
- **Z3** The sample required a dilution due to the nature of the sample matrix. Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.
- **Z6** Surrogate recovery was below acceptance limits.

#### METHOD MODIFICATION NOTES

| ANALYTICAL TESTING CORPORATION<br>Nashville Division<br>COOLER RECEIPT FORM            | BC#  | NPF1612   |
|--|--|---|
| Cooler Received/Opened On6/13/0<br>1. Indicate the Airbill Tracking Number (last 4 dig | :<br>67:50<br>its for Fedex only) and Name of Cour   | ier below: <u>9543</u>  |
| Fed-Ex UPS Velocity  | DHL Route  | Off-street Misc.  |
| 2. Temperature of representative sample or tempe<br>(indicate IR Gun ID#)              | rature blank when opened:  | 8 Degrees Celsius   |
| NA A00466 A00750   | A01124 100190  | 101282  |
| 3. Were custody seals on outside of cooler?  |  |   |
|  | 999 (Several Sector | the second s  |
| 4. Were the seals intact, signed, and dated correctly                                  |  |   |
| 5. Were custody papers inside cooler?  |  |   |
| I certify that I opened the cooler and answered ques                                   |  | •   |
| 6. Were custody seals on containers:   |  | Intact YES NO (NA)  |
| were these signed, and dated correctly?  |  |   |
|  |  | Vermiculite Foam psert  |
| Plastic bag Paper  | Other  | None  |
| 8. Cooling process: Ice Ice part   |  | •   |
| 9. Did all containers arrive in good condition ( unbr                                  |  |   |
| 10. Were all container labels complete (#, date, sign                                  |  |   |
| 11. Did all container labels and tags agree with cust                                  |  |   |
| 12. a. Were VOA vials received?  |  | Va  |
| b. Was there any observable head space presen  |  |   |
| I certify that I unloaded the cooler and answered que                                  |  |   |
| 13. a. On preserved bottles did the pH test strips sug                                 |  |   |
| b. Did the bottle labels indicate that the correct j                                   |  |   |
| If preservation in-house was needed, record  |  | Y   |
| 14. Was residual chlorine present?   |  |   |
| I certify that I checked for chlorine and pH as per SO                                 |  |   |
| 15. Were custody papers properly filled out (ink, sig                                  |  |   |
| 16. Did you sign the custody papers in the appropria                                   | 4  | F   |
| 17. Were correct containers used for the analysis req                                  |  |   |
| 18. Was sufficient amount of sample sent in each con                                   |  | and the second |
| I certify that I entered this project into LIMS and ansu                               |  |   |
| I certify that I attached a label with the unique LIMS                                 |  |   |
| 19. Were there Non-Conformance issues at login YES                                     | -  | YES NO #  |
| BIS = Broken in shipment<br>Cooler Receipt Form  | LF-1   | Revised 3/9/06  |

| ANALYTICAL TESTING CORPORATION |
|--------------------------------|
| Nashville Division             |
| <b>COOLER RECEIPT FORM</b>     |

BC#

.

| Cooler Received/Op<br>1. Indicate the Airbill Tra |                                 | 13, 2006 @)<br>4 digits for Fe | 0750<br>dex only) ai                | id Name of Co  | urier below:                                 | 9554  |          |
|---|---------------------------------|--------------------------------|-------------------------------------|--|--|---|----------|
| Fedex UPS   | Velocity                        | DHL                            | Route                               |  |  | Aisc.   |          |
| 2. Temperature of repres<br>(indicate IR Gun ID#  | entative sample or t<br>#)      | emperature bl                  | ank when c                          | pened:   | 5 Deg  | grees Cels  | ius      |
| NA A00466   | A00750                          | A01124                         | ł                                   | 100190   | 101282                                       | Rayn  | ger ST   |
| 3. Were custody seals on                          | outside of cooler?              |                                |                                     | *******  |  | ALC: NOT THE OWNER OF THE OWNER OWNER OF THE OWNER | Ĵ        |
| a. If yes, how                                    | many and where:_                |                                |                                     |  |  |   |          |
| 4. Were the seals intact, s                       | igned, and dated co             | rrectly?                       |                                     |  | ***********                                  | YESNO.  | (NA)     |
| 5. Were custody papers in                         | nside cooler?                   | ******                         |                                     |  | ********** 000643960                         | YESNO.  | NA       |
| I certify that I opened the                       | cooler and answered             | d questions 1-5                | (intial)                            | *****  | <u>•</u> • • • • • • • • • • • • • • • • • • |   | C        |
| 6. Were custody seals on a                        | containers:                     | YES                            | Ð                                   | an   | d Intact                                     | YES NO  | XA       |
| were these signe                                  | d, and dated correc             | tly?                           |                                     |  | *****  | YESNO   | 4        |
| 7. What kind of packin                            | ig material used?               | Bubblew                        | Pap                                 | Peanuts  | Vermiculite                                  | Foam  | insert   |
| Plast   | tighag Pape                     | er Othe                        | er                                  |  | No   | one   | <i>b</i> |
| 8. Cooling process:                               | Ice Ic                          | Pack                           | Ice (direc                          | t contact)   | Dry ice                                      | Other   | None.    |
| 9. Did all containers arriv                       | e in good condition             | ( unbroken)?                   | *** * 7 ? * 8 * 8 6 6 6 6 5 5       |  | *******                                      | 725NO   | NA       |
| 10. Were all container lab                        | els complete (#, dat            | e, signed, pres.               | , etc)?                             | *********  |  | YESNO   |          |
| 11. Did all container labels                      | s and tags agree wit            | h custody pape                 | ers?                                | *****  |  | VPSNO   |          |
| 12. a. Were VOA vials re                          | ceived?                         |                                | *******                             |  |  | YESNO   |          |
| b. Was there any obse                             | ervable head space <sub>l</sub> | present in any `               | VOA vial?                           | * * # \$ * <b>6</b> 1 6 7 6 7 6 7 6 7 6 9 0 6 5 5 <del>6 6</del> | ******                                       | YES NO  |          |
| I certify that I unloaded the                     | cooler and answer               | ed questions 6-                | <u>12 (intial)</u>                  | ***********  | *******                                      | (/  | · /      |
| 13. a. On preserved bottle                        | s did the pH test str           | ips suggest tha                | it preservati                       | on reached the   | correct pH leve                              | ? YESNO.:   | NA       |
| b. Did the bottle labels                          | indicate that the co            | rrect preserva                 | tives were u                        | sed  | *******                                      | ¥ÆŞNOI  | NA       |
| If preservation in                                | -house was needed,              | record standa                  | rd ID of pre                        | servative used   | here   | 0   |          |
| 14. Was residual chlorine p                       | present?                        | *******                        | * * * * * * * * * * * * * * * * * * |  | *      | YESNO   | A        |
| I certify that I checked for c                    | hlorine and pH as p             | er SOP and ar                  | iswered que                         | stions 13-14 (ir   | ntial)                                       |   |          |
| 15. Were custody papers p                         | roperly filled out (i           | nk, signed, etc)               | ?                                   | *******  | **********                                   | ¥29 NO  | NA       |
| 16. Did you sign the custod                       | ly papers in the app            | ropriate place                 | ?                                   | *****  | *      | YESNO   | NA       |
| 17. Were correct container:                       | s used for the analy            | sis requested?.                | *******                             |  | ***********                                  | YES NO N  | łA       |
| 18. Was sufficient amount of                      | of sample sent in eac           | ch container?                  |                                     | *****  | *********                                    | YESNO   | IA       |
| I certify that I entered this p                   | roject into LIMS ar             | id answered qu                 | lestions 15-1                       | 8 (intial)   | <u></u>                                      |   |          |
| I certify that I attached a lab                   | el with the unique l            | IMS number                     | to each cont                        | ainer (intial)   | ************                                 |   |          |
| 19. Were there Non-Conform                        | nance issues at login           | YES NO                         | Was a PIP                           | E generated  | YES  | NØ #  |          |
| BIS = Broken in shipment<br>Cooler Receipt Form   |                                 | L                              | F-1                                 |  |  | Revised   | 3/9/06   |

End of Form

ANALYTICAL TESTING CORPORATION Nashville Division **COOLER RECEIPT FORM** 

11

BC#

| Cooler Received/Opened On:       6/13/2006       7:50         1. Indicate the Airbill Tracking Number (last 4 digits for Fedex only) and Name of Courier below:       0 | 1598        |
|---|-------------|
| FED-EX  |             |
| Temperature of representative sample or temperature blank when opened: <u><u> </u></u>  | ees Celsius |
| 101507  |             |
| 3. Were custody seals on outside of cooler?   | YES. NONA   |
| a. If yes, how many and where:  |             |
| 4. Were the seals intact, signed, and dated correctly?  | YESNO.      |
| 5. Were custody papers inside cooler?   | YES. NO. NA |
| I certify that I opened the cooler and answered questions 1-5 (intial)  | C L         |
| 6. Were custody seals on containers: . YES And Intact   | YES NO      |
| were these signed, and dated correctly?   | YESNON      |
| 7. What kind of packing material used? Bubplewrap Peanuts Vermiculite   | Foam-Insert |
| Plaste bag Paper Other No   | ne          |
| 8. Cooling process: / Ree Iceptack Ice (direct contact) Dry ice   |             |
| 9. Did all containers arrive in good condition (unbroken)?  |             |
|   | YES).NONA   |
| 10. Were all container labels complete (#, date, signed, pres., etc)?   | XESNONA     |
| 11. Did all container labels and tags agree with custody papers?  | YESNONA     |
| 12. a. Were VOA vials received?   | VESNONA     |
| b. Was there any observable head space present in any VOA vial?   | YES. SONA   |
| I certify that I unloaded the cooler and answered questions 6-12 (intial)   |             |
| 13. a. On preserved bottles did the pH test strips suggest that preservation reached the correct pH level   | YESNO. CNA  |
| b. Did the bottle labels indicate that the correct preservatives were used  | xe\$nona    |
| If preservation in-house was needed, record standard ID of preservative used here   |             |
| 14. Was residual chlorine present?  | YESNO       |
| I certify that I checked for chlorine and pH as per SOP and answered questions 13-14 (initial)  |             |
| 15. Were custody papers properly filled out (ink, signed, etc)?   | YESNONA     |
| 16. Did you sign the custody papers in the appropriate place?   | YESNONA     |
| 17. Were correct containers used for the analysis requested?  | VESNONA     |
| 18. Was sufficient amount of sample sent in each container?   | YTSNO29A    |
| I certify that I entered this project into LIMS and answered questions 15-18 (intial)   | · //g_      |
| I certify that I attached a label with the unique LIMS number to each container (intial)  | 11          |
| 19. Were there Non-Conformance issues at login YES No Was a PIPE generated YES  | & #         |

BIS = Broken in shipment Cooler Receipt Form

<u>Nashville Division</u> COOLER RECEIPT FORM

BC#

.

| <b>C</b> e<br>1. 1 | ooler Received<br>Indicate the Airb | l/Opened<br>ill Tracking | On6/13/0<br>Number (last 4 di | )67:50<br>gits for Fedex only | ) and Name of Co  | urier below:(  | 7587         |
|--------------------|-------------------------------------|--------------------------|-------------------------------|-------------------------------|---|--|--------------|
|                    | Fed-Ex                              | UPS                      | Velocity                      | DHL                           | Route   | Off-street   | Misc.        |
| 2.<br>(in          | Temperature of a                    | representati<br>n ID#)   | ive sample or temp            | erature blank whe             | en opened:  | Deg  | rees Celsius |
| NA                 | A00466                              |                          | A00750                        | A01124                        | 100190  | 101282   | 102594       |
| 3.                 | Were custody se                     | als on outsi             | de of cooler?                 |                               | *********   |  | YESNA        |
|                    | a. If ye                            | es, how man              | y and where:                  |                               | an and much for a state of the | gaugh Chanderon yn yw Allwei yn genyddaele ddollon yn de llefo |              |
| 4.                 |                                     |                          | l, and dated correc           | •                             |   |  | YESNO        |
| 5.                 | Were custody pa                     | pers inside              | cooler?                       | ******                        | ,<br>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,   |  | yesNona      |
| <u>I ce</u>        | ertify that I open                  | ed the coole             | r and answered qu             | estions 1-5 (intial).         | **************  |  | JN           |
| 6.                 | Were custody se                     | als on conta             | iners:                        | YES AD                        |   | nd Intact  | YES NO MA    |
|                    | were thes                           | e signed, an             | d dated correctly?            | \$\$\$\$\$\$\$\$\$\$\$\$\$\$  | *******   |  | YESNONA      |
| 7.                 | What kind of <sub>j</sub>           | packing m                | aterial used?                 | Bubblewrap                    | Peanuts   | Vermiculite  | Foam Insert  |
|                    |                                     | Plastic b                | ag Paper                      | Other                         |   | No   | one          |
| 8.                 | Cooling proce                       | ess:                     | Ice Ice-p                     | ack Ice (d                    | irect contact)  | Dry lce  | Other None   |
| 9.                 | Did all container                   | s arrive in              | good condition ( ur           | ihroken)?                     |   | ******   | YES).NONA    |
|                    |                                     |                          | omplete (#, date, si          |                               |   |  | yesNONA      |
|                    |                                     |                          | l tags agree with c           |                               |   |  | YESNONA      |
|                    |                                     |                          | ed?                           |                               |   |  | YES. AONA    |
|                    |                                     |                          | ble head space pres           |                               |   |  | YESNO        |
| I ce               |                                     |                          | ler and answered o            |                               |   |  |              |
|                    |                                     |                          |                               |                               |   |  | 1? YESNO     |
|                    |                                     |                          | icate that the corre          |                               |   |  | YES. NONA    |
|                    | If preserv                          | ation in-hou             | use was needed, re            | cord standard ID o            | f preservative us   | ed here  |              |
| 14.                | Was residual ch                     | lorine pres              | ent?                          |                               |   |  | YESNO        |
|                    |                                     |                          | ine and pH as per             |                               | •   |  |              |
| 15.                |                                     |                          | erly filled out (ink,         |                               |   |  | ES. NONA     |
| 16.                | Did you sign th                     | e custody p              | apers in the appro            | priate place?                 |   |  | YESNONA      |
| 17.                |                                     |                          | ed for the analysis           |                               |   |  | YESNONA      |
| 18.                |                                     |                          | mple sent in each             |                               |   |  | DESNONA      |
|                    |                                     |                          | ect into LIMS and             |                               |   |  |              |
|                    |                                     |                          | vith the unique LN            |                               |   |  |              |
| Contraction        |                                     |                          | ce issues at login            |                               |   | •  | ¥9)#         |

BIS = Broken in shipment Cooler Receipt Form

:

| Nashville DivisionCOOLER RECEIPT FORMBC#   |               |
|--|---------------|
| Cooler Received/Opened On: 6/13/06@7:50<br>1. Indicate the Airbill Tracking Number (last 4 digits for Fedex only) and Name of Courier below:                         | 9602          |
| $\frac{\text{Fed-Ex}}{\text{Temperature of representative sample or temperature blank when opened:}} \underbrace{6.0}_{\text{Ueg}} \text{Deg}$ (indicate IR Gun ID#) | rees Celsius  |
| <u>101282</u>  |               |
| 3. Were custody seals on outside of cooler?  | YES. (NO.).NA |
| a. If yes, how many and where:   |               |
| 4. Were the seals intact, signed, and dated correctly?   | YESNO         |
| 5. Were custody papers inside cooler?  | $\sim$        |
| I certify that I opened the cooler and answered questions 1-5 (initial)  |               |
| 6. Were custody seals on containers: YES NO and Intact   |               |
| were these signed, and dated correctly?  |               |
| 7. What kind of packing material used? Bubblewrap Peanuts Vermiculity  |               |
|  | $\mathcal{O}$ |
|  | None          |
|  | Other None    |
| <ul><li>9. Did all containers arrive in good condition ( unbroken)?</li><li>10. Were all container labels complete (#, date, signed, pres., etc)?</li></ul>          | 0             |
|  |               |
| <ol> <li>Did all container labels and tags agree with custody papers?</li> <li>a. Were VOA vials received?</li> </ol>  | $\wedge$      |
| b. Was there any observable head space present in any VOA vial?  | YESNONA       |
| I certify that I unloaded the cooler and answered questions 6-12 (intial)  | YESNO MA      |
| 13. a. On preserved bottles did the pH test strips suggest that preservation reached the correct pH lev  |               |
| b. Did the bottle labels indicate that the correct preservatives were used   | XESNONA       |
| If preservation in-house was needed, record standard ID of preservative used here  | I FoINOINA    |
| 14. Was residual chlorine present?   | YESNO         |
| I certify that I checked for chlorine and pH as per SOP and answered questions 13-14 (intial)  |               |
| 15. Were custody papers properly filled out (ink, signed, etc)?  | YESNONA       |
| 16. Did you sign the custody papers in the appropriate place?  | YZSNONA       |
| 17. Were correct containers used for the analysis requested?   | YESNONA       |
| 18. Was sufficient amount of sample sent in each container?  | VESNONA       |
| certify that I entered this project into LIMS and answered questions 15-18 (intial)  | 110           |
| certify that I attached a label with the unique LIMS number to each container (intial)   |               |
|  |               |

19. Were there Non-Conformance issues at login YES NQ Was a PIPE generated

BIS = Broken in shipment Cooler Receipt Form

| Acton - M                                | nmental, l  | Standard TAT                              |   |                   |                  | ſ         | Pageof_2     |                      |                          |          | Chain of Custody 0360                     |            |                        |                   |                              | 0             |        |        |                 |                                 |               |
|--|---|---|---|-------------------|------------------|-----------|--------------|----------------------|--------------------------|----------|---|------------|------------------------|-------------------|------------------------------|---------------|--------|--------|-----------------|---------------------------------|---------------|
| Chain of Cus                             | tody and Anal<br>bat +D_PO#4                              | ysis Requ                                 | lest Form                               |                   | RUSH             | I TAT     |              | 24                   | hr. T                    | AT       |   |            | 18 hr.                 | TAT               |                              |               | 72 h   | r. TA  | Г               | 50                              | day TAT       |
| Geotraeker Glo                           | batto por 2   | Contraction of the local data             |   |                   |                  |           |              | ers                  |                          |          |   | Ś          | $\sqrt{2}$             | $\langle \rangle$ | $\nearrow$                   | Ż             | $\geq$ | $\sum$ | $\nearrow$      | 17.                             | $\geq$        |
| Send Results to:                         |   |   | nary Fax Result<br>e Receipt/ Log-In Co | onfirmation       |                  |           | P            | Number of Containers | ive.                     | People S |   | S. S. S.   | Ľ.                     | <b>,</b>          | $\langle \mathbf{y} \rangle$ | 1             | / /    | / /    |                 |                                 |               |
| 5175 Hillsdale Cir<br>El Dorado Hills, C |   |   | nic Data Deliverable                    | es(ishaa          | 10 am            | latrix    | ntainer      | of Co                | eservative               |          | zed x                                     | Ĵ          |                        | (VZ               | , v                          | / /           | / /    | / ·    | / /<br>B        |                                 | C40           |
| (916) 939-7550, FA                       | X (916) 939-7570  |   | cker EDF                                | inc               | .net)            | 2         | õ            | ber o                | Pres                     | 019      | er en | X S        | /\$                    | 'Y                |                              |               |        | /      |                 | VPF1                            |               |
| Attn .: Jenniter                         | Cuthmiller  | 1 21                                      | ata Deliverables<br>th Verbal Results   |                   |                  |           |              | Nun                  |                          | \$       | Ya.                                       | Ň          | 22 2 2<br>22 2<br>24 2 | 5 /               |                              |               |        |        | / 06            | 6/27/06                         | 23:59         |
| Lab ID<br>(LAB USE ONLY)                 | Field Point ID  | Sa  | imple ID                                | Date<br>Collected | Time<br>Collecte | d         |              |                      |                          |          |   |            |                        |                   |                              |               |        |        |                 | Comme                           | ents          |
| (LAB OOL ONLY)                           | QAac  | TB-2-                                     | -660606                                 | 4/4/04            | 1445             | FRW       | $\checkmark$ | 2                    | HC                       | ŧ        | x   | x          |                        | N                 | PF                           | 16            | 12-    | 0/     | d = d<br>s = 14 | cesel<br>eavy R                 | longe Or      |
|  | 64  |   | 060606                                  | 6/4/06            | 1445             | 5 GW      | GB<br>V      | 16                   | HK<br>HK                 | x        | x   | ×          | x                      |                   |                              |               |        | 62     |                 |                                 |               |
|  | HAII  |   | 060706                                  | 6/7/06            |                  | 1         | أحصا         | 1                    | 1-K<br>HK                | ×        | x   | ×          | x                      |                   |                              |               | 0      | 13     |                 | n yangadi san yan disiki dagan  |               |
|  |   |   | 060704                                  | 6/7/04            | 0840             | ) GW      | GB           | 1                    | HL                       | x        | ス   | x          | ĸ                      |                   |                              |               |        | 04     | Jin             | the se                          | for Nu        |
|  | HA3   |   |   |                   |                  |           |              | 6                    | Hi                       |          |   |            |                        |                   |                              | -             |        |        | dillo           | <u>r</u>                        | <u>necc</u> . |
|  | HA12  | HAIZ                                      | -060706                                 | 6/7/06            | 0800             | o Gu      | V            | 6                    | HC                       | K        |   | X          | X                      |                   |                              |               |        | 25     |                 |                                 |               |
|  | HA7   | HA7-                                      | 060706                                  | 6/7/04            | 6830             |           |              | 6                    | ite<br>ite               | - X      | x   | x          | ×                      |                   |                              |               |        | 66     |                 |                                 |               |
|  | HAG   | HA6.                                      | 660706                                  | 6/7/04            | 0920             | ) GL      | GB<br>V      | 6                    | rk<br>Ik                 | x        | x   | x          | X                      |                   |                              |               |        | 67     | )               | -                               |               |
|  | D4  | D4-                                       | 060706                                  | 6/7/06            |                  | o Gu      | GB           | 16                   | HC<br>HC                 | X.       | x   | ×          | *                      |                   |                              |               |        | 03     | >               |                                 |               |
|  | HAIY  | HAIG                                      | 1-060700                                | 1.1               | 103              | 0 GU      | v            | 6                    | 1-60                     | x        | ×   | x          |                        |                   |                              |               |        | 07     |                 |                                 |               |
|  | 1+A13   | HA13                                      | -060706                                 | 6/7/06            | 1100             | , Gu      | GB           | Ċ                    | He                       | X        | x   | x          | X                      |                   |                              |               |        | 60     |                 | angana waanada ahi daga gaya ya |               |
| Signature                                |   | ~ /                                       | Date                                    | Time              | )                | Signat    |              |                      |                          |          |   |            |                        | A                 |                              |               |        | ate    |                 |                                 | Time          |
| Relinquished by:                         | CAL   | 10-                                       | 680k                                    | 1313              |                  | Relin     | quish        | ed t                 | y: <u>/S</u>             | 17       | in  | 7          | Ton                    | 1.tog             |                              |               | E/     | 2/1    | 56              |                                 | <u> </u>      |
| Received by:                             | om Dlank  | <u> </u>                                  | 6/8/06                                  | 131               | 3                | Rece      | ived         | by: _                | $\underline{\checkmark}$ | 4        | ef b                                      |            |                        |                   |                              | - 6           | 1      | 5100   |                 | 750                             |               |
| Relinquished by:                         | <u> </u>  | )   | / /                                     |                   |                  | Relin     | quish        | ned t                | ру:                      |          |   |            |                        |                   |                              |               |        |        |                 |                                 |               |
| Received by:                             |   |   |   |                   |                  | Rece      |              |                      |                          |          |   |            |                        |                   |                              |               |        |        | . د د اسله      | L                               |               |
| RW - Reagent Water: S                    | Drinking Water; SW - Surfa<br>- Soil; SE - Sediment; SV - | Soil Vapor; AA - A                        | mbient Air; WS - Waste (                | Solid); O - Oti   | her I            | Project I | Name         | and                  |                          |          |   |            |                        | ent               | en T                         | e rr          | nin    |        |                 | <u>e-08</u>                     |               |
| Container: GB - Glass B                  | ottle (Amber); V - 40 ml VO<br>Slass, Jar. SC - Summa Cal | A Vial; BT, ST, PT<br>nister: TD - Tedlar | - Brass, Steel, and Plasi               | ic Tube;          | . I              | Project I |              |                      | *                        | 130      | 140                                       | <u>, 0</u> | 1                      | Je                | 15                           | eceivi<br>BAR |        |        |                 | Imer                            | 100           |
| Preservative: C - Cold; H                | IS - Sulfuric Acid; HC - Hydr                             | rochloric Acid; HN                        | - Nitric Acid; Na - Sodium              | Hydroxide; O      | - Other          | Sample    |              |                      |                          |          |   | t Nan      | ie                     | dsor              |                              | 2718          | )/     |        | Signat          | lure                            |               |
|  | 9.7   | w/a c                                     | RIGINAL - Laboratory (R                 | eturn with Rep    | port)            | YELLO     | W - La       | borat                | ory                      | P        | INK -                                     | Origin     | ator                   |                   |                              |               |        |        |                 |                                 |               |

|  | Mickelson •   |   |  | Inc. 🔀  | Star                | ndard T   | AT                    |                      |              | Pag           | e     | 20               | f_Z                                     |              | C        | hair  | n of ( | Custo            | ody           | 535           | 3                                       |
|--|---|---|--|---|---------------------|---|-----------------------|----------------------|--------------|---------------|-------|------------------|---|--------------|----------|---|--------|------------------|---------------|---------------|---|
| Chain of C<br>Geotracker (   | ustody and Anal<br>Global ID PO # 44  | ysis Rec  | uest Form<br>イチノ   |   | RUS                 | SH TAT  |                       | 24                   | hr           |               |       | Q.               | 48 h                                    | r. TAT       | <u> </u> | Ę   | 72     | hr. T            | AT            |               | day TAT                                 |
| Send Results<br>5175 Hillsdale<br>El Dorado Hills<br>(916) 939-7550      | to:<br>Circle, Suite 100<br>6, CA 95762<br>9, FAX (916) 939-7570<br>er Guthmiller   | X Sam<br>X Elect<br>Geot<br>X Raw   | minary Fax Result<br>ble Receipt/ Log-In (<br>ronic Data Deliverab | les to :<br>cal @arn  | eincu               |   | Container             | Number of Containers | Preservative | A. O.         | A POS | L'OG THUN        | a x x x x x x x x x x x x x x x x x x x |              | ZY<br>ZY | S<br>S<br>S<br>S<br>S<br>S<br>S<br>S<br>S<br>S<br>S<br>S<br>S<br>S<br>S<br>S<br>S<br>S<br>S |        |                  |               |               | >                                       |
| (LAB USE ONLY)   | Field Point ID  | 5   | Sample ID  | Date<br>Collected   | Time<br>Collect     |   |                       |                      |              |               |       |                  |   |              |          |   |        |                  |               | Comme         | 1                                       |
|  | HA5   | HAS-  | -060706  | 6/2/06  | 111                 | 5 Gw  | GB<br>V               | 4                    | 1K<br>1K     | ¥             | ×     | ×                | x                                       | NI           | of       | -167  | 2-1    | b)               |               | drese         | Kunge C                                 |
|  | HAID  | HAIO  | -060706  | 6/7/06  | 120                 | s Gu  | 100                   | 1                    | 1+K          |               |       |                  | Х                                       |              |          |   |        | 212              | 1             |               | prove of                                |
|  | ωΙ  | wl-   | 060706   | 6/7/04  | 134:                | 5 64  | GB<br>V               | 1                    | HK<br>HK     | χ             | x     | ×                | x                                       |              |          |   | (      | 13               | -             |               | <b></b>                                 |
|  | Dle   | De-   | 060706   | 6/7/06  | 143                 | o Giu   | ĠB                    | Į                    | He           | x             | x     | x                | x                                       |              |          |   | 1      | Y                |               |               |   |
|  | D7  | D7-0  | 060706   | 6/7/06  | 150                 | 5 EW  | GB<br>V               | Ļ                    | HC           | X             |       | X                | Y                                       |              |          |   | 13     | 5                |               |               |   |
|  | HAI   | HAI   | -060706  | 6/7/04  | 153                 | i Giu   | GB<br>V               | 1                    | HC           |               | ×     | ×                | ×                                       |              |          |   | 1      | 2                |               |               |   |
|  |   |   |  |   |                     |   |                       |                      |              |               |       |                  |   |              |          |   |        |                  |               |               |   |
|  |   | ~   |  | 66.   |                     |   | -                     |                      | Juli         |               |       |                  |   |              |          |   |        |                  |               |               |   |
| Signature  | QAQE  | DUPE  | }  | in the second | <u> </u>            |   | - K-I                 | 6                    | HC Itc       | x             | ×     | x                | ¥                                       |              |          |   |        |                  | L             |               | na kana kana kana kana kana kana kana k |
| Relinquished by:   | hAN   | Æ   | Date   | Time<br>1313  |                     | Signatu<br>Relinq                               |                       |                      |              | Dro           | 14.0  | ~ `              | Th                                      | Ar           |          |   |        | $\frac{1}{2}/57$ | 10            | 154           | ime<br>12 -                             |
| Received by:   | Tom Blant   | $\overline{\mathbf{v}}$   | 6/8/86   | 131   |                     | Receiv  |                       |                      | U            |               | A     | <b>/</b>         | 10.1                                    | ng           |          |   |        | 2 10             | $\frac{b}{b}$ | 25            | $\overline{\mathcal{D}}$                |
| Relinquished by:   |   | 0   |  |   |                     | Relinq  |                       |                      | <u>~</u> /4  | 17            |       | - annegiation. P |   |              |          | - 9   | 12     | 100              | $\leq$        |               |   |
| Received by:   |   |   |  |   |                     | Receiv  |                       |                      |              |               |       |                  |   |              |          | =   |        |                  |               |               |   |
| RW - Reagent Water; S<br>Container: GB - Glass<br>P - Polythethylene; GJ | - Drinking Water; SW - Surface<br>- Soil; SE - Sediment; SV - So<br>Bottle (Amber); V - 40 ml VOA<br>- Glass Jar, SC - Summa Canis<br>HS - Sulfuric Acid; HC - Hydrod<br>9, 1 w/o | bil Vapor; AA - A<br>Vial; BT, ST, PT<br>ter; TD - Tedlar<br>chloric Acid; HN | mbient Air; WS - Waste (S<br>- Brass, Steel, and Plastic           | olid); O - Othe<br>Tube;<br>Hydroxide; O - I  | r P<br>P<br>Other S | Project Na<br>Project Nu<br>Sampled I<br>YELLOW | ame a<br>umber<br>by: | ind Lo               | 13           | 034<br>~<br>P |       | 3<br>ch          | ary                                     | enti<br>Isan | R        |   | ng Lat |                  |               | toneri<br>- C | 080<br>ch                               |
|  | 111   | 0   |  | ann with riepui   | .,                  |   | Lau                   | Jaion                | ÿ            | CUN           | - Ori | yniatt           | 71                                      |              |          |   |        |                  |               |               |   |

2960 Foster Creighton Road Nashville, TN 37204 \* 800-765-0980 \* Fax 615-726-3404

November 09, 2006

| Client:<br>Attn: | Acton Mickelson Environmental, Inc. (13785)<br>5175 Hillsdale Circle, Suite 100<br>El Dorado Hills, CA 95762<br>Jennifer Guthmiller | Work Order:<br>Project Name:<br>Project Nbr:<br>P/O Nbr:<br>Date Received: | NPJ3797<br>(06) Former Renton Terminal #46-080<br>13042.01<br>4507265171<br>10/27/06 |
|------------------|---|--|--|
|                  | SAMPLE IDENTIFICATION   | LAB NUMBER   | COLLECTION DATE AND TIME   |
| D-7-             | 102406  | NPJ3797-01   | 10/24/06 11:40   |
| B-2-             | 102306  | NPJ3797-02   | 10/23/06 15:30   |
| B-5-             | 102306  | NPJ3797-03   | 10/23/06 16:00   |
| HA-              | 1-102406  | NPJ3797-04   | 10/24/06 08:30   |
| HA-              | 11-102406   | NPJ3797-05   | 10/24/06 09:00   |
| HA-              | 10-102406   | NPJ3797-06   | 10/24/06 09:15   |
| HA-9             | 9-102406  | NPJ3797-07   | 10/24/06 09:30   |
| HA-2             | 2-102406  | NPJ3797-08   | 10/24/06 09:45   |
| B-2-             | 102306-TB   | NPJ3797-09   | 10/23/06 15:00   |
| HA-4             | 4-102406  | NPJ3797-10   | 10/24/06 10:00   |
| W-3-             | -102406   | NPJ3797-11   | 10/24/06 10:40   |
| W-4-             | -102406   | NPJ3797-12   | 10/24/06 11:15   |
| HA-1             | 14-102406   | NPJ3797-13   | 10/24/06 12:10   |
| HA-1             | 13-102406   | NPJ3797-14   | 10/24/06 12:20   |
| HA-3             | 5-102406  | NPJ3797-15   | 10/24/06 12:30   |
| HA-7             | 7-102406  | NPJ3797-16   | 10/24/06 12:45   |
| HA-1             | 12-102406   | NPJ3797-17   | 10/24/06 13:45   |
| HA-6             | 5-102406  | NPJ3797-18   | 10/24/06 13:15   |
| DUP              | E-2-102406  | NPJ3797-19   | 10/24/06 00:01   |
| B-1-1            | 102406  | NPJ3797-20   | 10/24/06 14:15   |

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accreditation.

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Oregon Certification Number: TN200001

The Chain(s) of Custody, 9 pages, are included and are an integral part of this report.

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Report Approved By:

Client Acton Mickelson Environmental, Inc. (13785) 5175 Hillsdale Circle, Suite 100 El Dorado Hills, CA 95762 Attn Jennifer Guthmiller Work Order:NPJ3797Project Name:(06) Former Renton Terminal #46-080Project Number:13042.01Received:10/27/06 08:00

Leah R. Klingensmith

Senior Project Management

## 1650/MILEFICA

| Client Acton Mickelson Environmental,<br>5175 Hillsdale Circle, Suite 100<br>El Dorado Hills, CA 95762<br>Attn Jennifer Guthmiller | Inc. (13785) |            |                | Work O<br>Project<br>Project<br>Receive | 46-080     |                    |                                  |                            |        |
|--|--------------|------------|----------------|---|------------|--------------------|----------------------------------|----------------------------|--------|
|  |              |            | ANALY          | TICAL REPO                              | RT         |                    |                                  |                            |        |
| Analyte  | Result       | Flag       | Units          | MDL                                     | MRL        | Dilution<br>Factor | ~                                | Method                     | Bato   |
| Sample ID: NPJ3797-01 (D-7-1024  | 106 - Groun  | d Water) S | sampled:       | 10/24/06 11:                            | 40         |                    |                                  |                            |        |
| Selected Volatile Organic Compounds I  |              |            | •              |   | ••         |                    |                                  |                            |        |
| Benzene  | 6.98         |            | ug/L           | 0.310                                   | 1.00       | 1                  | 11/04/06 18:55                   | SW846 8260B                | 610613 |
| Ethylbenzene   | ND           |            | ug/L           | 0.230                                   | 1.00       | 1                  | 11/04/06 18:55                   | SW846 8260B                | 610613 |
| fethyl tert-Butyl Ether  | ND           |            | ug/L           | 0.310                                   | 1.00       | 1                  | 11/04/06 18:55                   | SW846 8260B                | 610613 |
| oluene   | 0.630        | J          | ug/L           | 0.220                                   | 1.00       | 1                  | 11/04/06 18:55                   | SW846 8260B                | 610613 |
| Lylenes, total   | ND           |            | ug/L           | 0.440                                   | 3.00       | 1                  | 11/04/06 18:55                   | SW846 8260B                | 610613 |
| thanol   | ND           |            | ug/L           | 62.0                                    | 100        | 1                  | 11/04/06 18:55                   | SW846 8260B                | 610613 |
| urr: 1,2-Dichloroethane-d4 (62-142%)   | 98 %         |            |                |   |            | 1                  | 11/04/06 18:55                   | SW846 8260B                | 61061  |
| urr: Dibromofluoromethane (78-123%)  | 105 %        |            |                |   |            | 1                  | 11/04/06 18:55                   | SW846 8260B                | 61061  |
| rr: Toluene-d8 (79-120%)   | 112 %        |            |                |   |            |                    | 11/04/06 18:55                   | SW846 8260B                | 61061  |
| rr: 4-Bromofluorobenzene (75-133%)   | 96 %         |            |                |   |            | _                  | 11/04/06 18:55                   | SW846 8260B                | 61061  |
| xtractable Petroleum Hydrocarbons  |              |            |                |   |            | *                  | 11/0//00 1111                    | herr =                     |        |
| iesel  | 913          | QSG, J     | ug/L           | 356                                     | 962        | 10                 | 11/05/06 01:51                   | NWTPH-Dx                   | 610564 |
| lotor Oil  | 37200        | QSG        | ug/L<br>ug/L   | 356                                     | 962<br>962 | 10                 | 11/05/06 01:51                   | NWTPH-DX<br>NWTPH-Dx       | 610564 |
| rr: o-Terphenyl (33-147%)  | *            | Z3         | <del>ب</del> - |   |            |                    | 11/05/06 01:51                   | NWTPH-Dx                   | 61056  |
| geable Petroleum Hydrocarbons  |              |            |                |   |            |                    | £ 4, 0 _, .                      |                            |        |
| RO (C4-C12)  | 56.2         | J          | ug/L           | 2.00                                    | 100        | 1                  | 11/03/06 16:52                   | NWTPH-Gx                   | 611064 |
| urr: a,a,a-Trifluorotoluene (63-134%)  | 107 %        |            |                |   |            |                    | 11/03/06 16:52                   | NWTPH-Gx                   | 61106  |
| ample ID: NPJ3797-02 (B-2-10230  | A - Ground   | (Water) S  | mnlade 1       | 10/32/06 15.2                           | 20         |                    |                                  |                            |        |
| elected Volatile Organic Compounds b   |              |            | impicu         | . U/ 4J/ VU 10.0                        | 0          |                    |                                  |                            |        |
| enzene   | 7120         | /u u== :   | ug/L           | 31.0                                    | 100        | 100                | 11/05/06 03:48                   | SW846 8260B                | 61061  |
| hylbenzene   | 289          |            | ug/L<br>ug/L   | 2.30                                    | 100        |                    | 11/05/06 03:48<br>11/05/06 03:20 | SW846 8260B<br>SW846 8260B | 61061  |
| lethyl tert-Butyl Ether  | 22.1         |            | ug/L<br>ug/L   | 0.310                                   | 1.00       |                    | 11/05/06 02:52                   | SW846 8260B                | 61061  |
| oluene   | 179          |            | ug/L           | 0.220                                   | 1.00       |                    | 11/05/06 02:52                   | SW846 8260B                | 61061  |
| ylenes, total  | 5280         |            | ug/L           | 4.40                                    | 30.0       |                    |                                  | SW846 8260B                | 61061  |
| thanol   | ND           |            | ug/L           | 62.0                                    | 100        |                    |                                  | SW846 8260B                | 61061  |
| rr: 1,2-Dichloroethane-d4 (62-142%)  | 107 %        |            |                |   |            |                    |                                  | SW846 8260B                | 61061  |
| rr: Dibromofluoromethane (78-123%)   | 98 %         |            |                |   |            |                    |                                  | SW846 8260B                | 61061  |
| rr: Toluene-d8 (79-120%)   | 96 %         |            |                |   |            |                    | 11/05/06 02:52<br>11/05/06 02:52 | SW846 8260B<br>SW846 8260B | 61061  |
| rr: 4-Bromofluorobenzene (75-133%)   | 86 %         |            |                |   |            |                    |                                  | SW846 8260B<br>SW846 8260B | 61061  |
| xtractable Petroleum Hydrocarbons  |              |            |                |   |            | *                  | 11/00/00 02.02                   | Dir 0.0                    |        |
| iesel  | 10700        | QSG        | ug/L           | 180                                     | 485        | 5                  | 11/06/06 09:51                   | NWTPH-Dx                   | 610564 |
| otor Oil   | ND           | QSG        | ug/L<br>ug/L   | 180                                     | 485        |                    | 11/06/06 09:51                   | NWTPH-Dx                   | 610564 |
| rr: o-Terphenyl (33-147%)  | 76 %         |            |                |   |            |                    | 11/06/06 09:51                   | NWTPH-Dx                   | 61056  |
| urgeable Petroleum Hydrocarbons  |              |            |                |   |            | 5                  | . 1/00/00 021                    | ***** **                   |        |
| RO (C4-C12)  | 47000        | `          | ug/L           | 100                                     | 5000       | 50                 | 11/03/06 17:18                   | NWTPH-Gx                   | 611064 |
|  |              |            |                | 1.0.0                                   | JAMM       | 11.4               | 11/03/00 17 10                   | IN WEETER-VIA              | 01100- |
| rr: a,a,a-Trifluorotoluene (63-134%)   | 115%         |            | ug/L           | 100                                     |            |                    | 11/03/06 17:18                   | NWTPH-Gx                   | 61106  |

S nple ID: NPJ3797-03 (B-5-102306 - Ground Water) Sampled: 10/23/06 16:00 .cted Volatile Organic Compounds by EPA Method 8260B

### **IESUAIIELLO** ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Road Nashville, TN 37204 \* 800-765-0980 \* Fax 615-726-3404

| Client                    | Acton Mickelson Environmental, In<br>5175 Hillsdale Circle, Suite 100<br>El Dorado Hills, CA 95762<br>Jennifer Guthmiller | ю. (13785) |      |        | Work Or<br>Project N<br>Project N<br>Received | lame:<br>lumber: | NPJ3797<br>(06) Former Ren<br>13042.01<br>10/27/06 08:00 | ton Terminal #46-(    | )80    |       |
|---------------------------|---|------------|------|--------|---|------------------|--|-----------------------|--------|-------|
| warring and the source of |   |            |      | ANALYT | ICAL REPOF                                    | RT               |  |                       |        |       |
| Analy                     | te .  | Result     | Flag | Units  | MDL   | MRL              | Dilution<br>Factor                                       | Analysis<br>Date/Time | Method | Batch |

#### Sample ID: NPJ3797-03 (B-5-102306 - Ground Water) - cont. Sampled: 10/23/06 16:00

Selected Volatile Organic Compounds by EPA Method 8260B - cont.

| Selected Volatile Organic Compounds    | by EPA Meth | od 8260B - | cont. |       |      |    |                |             |         |
|--|-------------|------------|-------|-------|------|----|----------------|-------------|---------|
| Benzene                                | 1950        |            | ug/L  | 15.5  | 50.0 | 50 | 11/05/06 04:45 | SW846 8260B | 6106133 |
| Ethylbenzene                           | 372         |            | ug/L  | 11.5  | 50.0 | 50 | 11/05/06 04:45 | SW846 8260B | 6106133 |
| Methyl tert-Butyl Ether                | 0.770       | J          | ug/L  | 0.310 | 1.00 | 1  | 11/05/06 04:17 | SW846 8260B | 6106133 |
| Toluene                                | 23.8        |            | ug/L  | 0.220 | 1.00 | 1  | 11/05/06 04:17 | SW846 8260B | 6106133 |
| Xylenes, total                         | 904         |            | ug/L  | 22.0  | 150  | 50 | 11/05/06 04:45 | SW846 8260B | 6106133 |
| Ethanol                                | ND          |            | ug/L  | 62.0  | 100  | 1  | 11/05/06 04:17 | SW846 8260B | 6106133 |
| Surr: 1,2-Dichloroethane-d4 (62-142%)  | 85 %        |            |       |       |      | 1  | 11/05/06 04:17 | SW846 8260B | 6106133 |
| Surr: Dibromofluoromethane (78-123%)   | 98 %        |            |       |       |      | 1  | 11/05/06 04:17 | SW846 8260B | 6106133 |
| Surr: Toluene-d8 (79-120%)             | 96 %        |            |       |       |      | 1  | 11/05/06 04:17 | SW846 8260B | 6106133 |
| Surr: 4-Bromofluorobenzene (75-133%)   | 89 %        |            |       |       |      | 1  | 11/05/06 04:17 | SW846 8260B | 6106133 |
| Extractable Petroleum Hydrocarbons     |             |            |       |       |      |    |                |             |         |
| Diesel                                 | 6440        | QSG        | ug/L  | 70.5  | 190  | 2  | 11/06/06 10:10 | NWTPH-Dx    | 6105647 |
| Motor Oil                              | 605         | QSG        | ug/L  | 70.5  | 190  | 2  | 11/06/06 10:10 | NWTPH-Dx    | 6105647 |
| Surr: o-Terphenyl (33-147%)            | 91 %        |            |       |       | ,    | 2  | 11/06/06 10:10 | NWTPH-Dx    | 6105647 |
| .rgeable Petroleum Hydrocarbons        |             |            |       |       |      |    |                |             |         |
| GRO (C4-C12)                           | 9010        |            | ug/L  | 40.0  | 2000 | 20 | 10/31/06 16:15 | NWTPH-Gx    | 6106208 |
| Surr: a,a,a-Trifluorotoluene (63-134%) | 84 %        |            | 2     |       |      | 20 | 10/31/06 16:15 | NWTPH-Gx    | 6106208 |

#### Sample ID: NPJ3797-04 (HA-1-102406 - Ground Water) Sampled: 10/24/06 08:30

Selected Volatile Organic Compounds by EPA Method 8260B

| ergenie ergenie                       | o)    | 04 02000 |      |       |      |   |                |             |         |
|---------------------------------------|-------|----------|------|-------|------|---|----------------|-------------|---------|
| Benzene                               | ND    |          | ug/L | 0.310 | 1.00 | 1 | 11/04/06 19:23 | SW846 8260B | 6106133 |
| Ethylbenzene                          | ND    |          | ug/L | 0.230 | 1.00 | 1 | 11/04/06 19:23 | SW846 8260B | 6106133 |
| Methyl tert-Butyl Ether               | ND    |          | ug/L | 0.310 | 1.00 | 1 | 11/04/06 19:23 | SW846 8260B | 6106133 |
| Toluene                               | ND    |          | ug/L | 0.220 | 1.00 | 1 | 11/04/06 19:23 | SW846 8260B | 6106133 |
| Xylenes, total                        | ND    |          | ug/L | 0.440 | 3.00 | 1 | 11/04/06 19:23 | SW846 8260B | 6106133 |
| Ethanol                               | ND    |          | ug/L | 62.0  | 100  | 1 | 11/04/06 19:23 | SW846 8260B | 6106133 |
| Surr: 1,2-Dichloroethane-d4 (62-142%) | 98 %  |          |      |       |      | 1 | 11/04/06 19:23 | SW846 8260B | 6106133 |
| Surr: Dibromofluoromethane (78-123%)  | 104 % |          |      |       |      | 1 | 11/04/06 19:23 | SW846 8260B | 6106133 |
| Surr: Toluene-d8 (79-120%)            | 113 % |          |      |       |      | 1 | 11/04/06 19:23 | SW846 8260B | 6106133 |
| Surr: 4-Bromofluorobenzene (75-133%)  | 92 %  |          |      |       |      | 1 | 11/04/06 19:23 | SW846 8260B | 6106133 |
| Extractable Petroleum Hydrocarbons    |       |          |      |       |      |   |                |             |         |
| Diesel                                | 877   | QSG      | ug/L | 35.2  | 95.2 | 1 | 11/06/06 10:28 | NWTPH-Dx    | 6105647 |
| Motor Oil                             | 1090  | QSG      | ug/L | 35.2  | 95.2 | 1 | 11/06/06 10:28 | NWTPH-Dx    | 6105647 |
| Gurr: o-Terphenyl (33-147%)           | 59 %  |          |      |       | ,    | 1 | 11/06/06 10:28 | NWTPH-Dx    | 6105647 |
| Purgeable Petroleum Hydrocarbons      |       |          |      |       |      |   |                |             |         |
| GRO (C4-C12)                          | 10.9  | J        | ug/L | 2.00  | 100  | 1 | 10/29/06 01:25 | NWTPH-Gx    | 6105679 |
| urr: a,a,a-Trifluorotoluene (63-134%) | 65 %  |          |      |       |      | 1 | 10/29/06 01:25 | NWTPH-Gx    | 6105679 |
|                                       |       |          |      |       |      |   |                |             |         |

¬ nple ID: NPJ3797-05 (HA-11-102406 - Ground Water) Sampled: 10/24/06 09:00 Lected Volatile Organic Compounds by EPA Method 8260B

### **IESUAMERICA** ANALYTICAL TESTING CORPORATION

| lient | Acton Mickelson Environmental, Inc. (13785)<br>5175 Hillsdale Circle, Suite 100<br>El Dorado Hills, CA 95762 | Work Order:<br>Project Name:<br>Project Number: | NPJ3797<br>(06) Former Renton Terminal #46-080<br>13042.01 |  |
|-------|--|---|--|--|
| Attn  | Jennifer Guthmiller  | Received:                                       | 10/27/06 08:00   |  |

|  |              |          | ANALY         | FICAL REPO     | RT           |                    |                                  |                            |                    |
|--|--------------|----------|---------------|----------------|--------------|--------------------|----------------------------------|----------------------------|--------------------|
| Analyte  | Result       | Flag     | Units         | MDL            | MRL          | Dilution<br>Factor | Analysis<br>Date/Time            | Method                     | Batch              |
| Sample ID: NPJ3797-05 (HA-11-10  | 02406 - Gro  | und Wate | er) - cont. S | Sampled: 10    | /24/06 09:00 |                    |                                  |                            |                    |
| Selected Volatile Organic Compounds                                    | by EPA Meth  | od 8260B | - cont.       |                |              |                    |                                  |                            |                    |
| Benzene  | 1510         |          | ug/L          | 6.20           | 20.0         | 20                 | 11/05/06 05:41                   | SW846 8260B                | 6106133            |
| Ethylbenzene   | 385          |          | ug/L          | 4.60           | 20.0         | 20                 | 11/05/06 05:41                   | SW846 8260B                | 6106133            |
| Methyl tert-Butyl Ether  | ND           |          | ug/L          | 0.310          | 1.00         | 1                  | 11/05/06 05:13                   | SW846 8260B                | 6106133            |
| Toluene  | 12.2         |          | ug/L          | 0.220          | 1.00         | 1                  | 11/05/06 05:13                   | SW846 8260B                | 6106133            |
| Xylenes, total   | 710          |          | ug/L          | 8.80           | 60.0         | 20                 | 11/05/06 05:41                   | SW846 8260B                | 6106133            |
| Ethanol  | ND           |          | ug/L          | 62.0           | 100          | 1                  | 11/05/06 05:13                   | SW846 8260B                | 6106133            |
| Surr: 1,2-Dichloroethane-d4 (62-142%)                                  | 84 %         |          |               |                |              | 1                  | 11/05/06 05:13                   | SW846 8260B                | 6106133            |
| Surr: Dibromofluoromethane (78-123%)                                   | 97 %         |          |               |                |              | 1                  | 11/05/06 05:13                   | SW846 8260B                | 6106133            |
| Surr: Toluene-d8 (79-120%)   | 103 %        |          |               |                |              | 1                  | 11/05/06 05:13                   | SW846 8260B                | 6106133            |
| Surr: 4-Bromofluorobenzene (75-133%)                                   | 87 %         |          |               |                |              | 1                  | 11/05/06 05:13                   | SW846 8260B                | 6106133            |
| Extractable Petroleum Hydrocarbons                                     |              |          |               |                |              |                    |                                  |                            |                    |
| Diesel   | 3560         | QSG      | ug/L          | 74.0           | 200          | 1                  | 11/05/06 03:14                   | NWTPH-Dx                   | 6105647            |
| Motor Oil  | 1370         | QSG      | ug/L          | 74.0           | 200          | 1                  | 11/05/06 03:14                   | NWTPH-Dx                   | 6105647            |
| Surr: o-Terphenyl (33-147%)  | 34 %         |          | U             |                |              | 1                  | 11/05/06 03:14                   | NWTPH-Dx                   | 6105647            |
| _ argeable Petroleum Hydrocarbons                                      |              |          |               |                |              |                    |                                  |                            |                    |
| GRO (C4-C12)   | 7410         |          | ug/L          | 20.0           | 1000         | 10                 | 10/29/06 01:40                   | NWTPH-Gx                   | 6105679            |
| Surr: a,a,a-Trifluorotoluene (63-134%)                                 | 106 %        |          |               |                |              | 10                 | 10/29/06 01:40                   | NWTPH-Gx                   | 6105679            |
| Sample ID: NPJ3797-06 (HA-10-10<br>Selected Volatile Organic Compounds | by EPA Meth  |          | er) Sample    |                |              |                    |                                  |                            |                    |
| Benzene  | 36.2         |          | ug/L          | 0.310          | 1.00         | 1                  | 11/04/06 19:51                   | SW846 8260B                | 6106133            |
| Ethylbenzene   | 47.4         |          | ug/L          | 0.230          | 1.00         | 1                  | 11/04/06 19:51                   | SW846 8260B                | 6106133            |
| Methyl tert-Butyl Ether  | ND           |          | ug/L          | 0.310          | 1.00         | 1                  | 11/04/06 19:51                   | SW846 8260B                | 6106133<br>6106133 |
| Toluene  | ND<br>99.4   |          | ug/L          | 0.220<br>0.440 | 1.00<br>3.00 | 1<br>1             | 11/04/06 19:51                   | SW846 8260B<br>SW846 8260B | 6106133            |
| Xylenes, total<br>Ethanol  | 99.4<br>ND   |          | ug/L          | 62.0           | 3.00<br>100  | 1                  | 11/04/06 19:51<br>11/04/06 19:51 | SW846 8260B                | 6106133            |
| Surr: 1,2-Dichloroethane-d4 (62-142%)                                  | 94%          |          | ug/L          | 02.0           | 100          |                    |                                  | SW846 8260B                | 6106133            |
| Surr: Dibromofluoromethane (78-123%)                                   |              |          |               |                |              | 1                  | 11/04/06 19:51                   |                            | 6106133            |
| Surr: Toluene-d8 (79-120%)   | 100 %        |          |               |                |              | 1                  | 11/04/06 19:51                   | SW846 8260B                | 6106133            |
| ( ,  | 97 %         |          |               |                |              | 1                  | 11/04/06 19:51                   | SW846 8260B                |                    |
| Surr: 4-Bromofluorobenzene (75-133%)                                   | 93 %         |          |               |                |              | 1                  | 11/04/06 19:51                   | SW846 8260B                | 6106133            |
| Purgeable Petroleum Hydrocarbons                                       |              |          |               |                |              |                    |                                  |                            |                    |
| GRO (C4-C12)   | 2280         |          | ug/L          | 2.00           | 100          | 1                  | 10/29/06 01:55                   | NWTPH-Gx                   | 6105679            |
| Surr: a,a,a-Trifluorotoluene (63-134%)                                 | 78 %         |          |               |                |              | 1                  | 10/29/06 01:55                   | NWTPH-Gx                   | 6105679            |
| Sample ID: NPJ3797-07 (HA-9-102  | 2406 - Groui | nd Water | ·) Sampled    | : 10/24/06 09  | 9:30         |                    |                                  |                            |                    |
| Selected Volatile Organic Compounds                                    | by EPA Methe | od 8260B |               |                |              |                    |                                  |                            |                    |
| Benzene  | 248          |          | ug/L          | 3.10           | 10.0         | 10                 | 11/05/06 06:37                   | SW846 8260B                | 6106133            |
| Ethylbenzene   | 580          |          | ug/L          | 2.30           | 10.0         | 10                 | 11/05/06 06:37                   | SW846 8260B                | 6106133            |
| Mathyl tert-Butyl Ether  | ND           |          | ug/L          | 0.310          | 1.00         | 1                  | 11/05/06 06:09                   | SW846 8260B                | 6106133            |
| ene  | 2.58         |          | ug/L          | 0.220          | 1.00         | 1 ·                | 11/05/06 06:09                   | SW846 8260B                | 6106133            |
| Xylenes, total   | 8.43         |          | ug/L          | 0.440          | 3.00         | 1                  | 11/05/06 06:09                   | SW846 8260B                | 6106133            |
|  |              |          |               |                |              |                    |                                  |                            |                    |

| <ul> <li>Acton Mickelson Environmental<br/>5175 Hillsdale Circle, Suite 100<br/>El Dorado Hills, CA 95762</li> <li>n Jennifer Guthmiller</li> </ul>  | , Inc. (13785)  | 111-111-1111-1111-1111-1111-1111-1111-1111 |  | Work O<br>Project<br>Project<br>Receive  | Name:<br>Number:   | NPJ3797<br>(06) Former R<br>13042.01<br>10/27/06 08:00                                    | enton Terminal #4<br>)   | 6-080   | ccs-vacabace/14474-v4544-v474-v474-v474-v474-v474-v474   |
|--|---|--|--|--|--|---|--|---|--|
|  |   |  | ANALY  | FICAL REPO   | RT   |   |  |   |  |
| Analyte  | Result  | Flag                                       | Units  | MDL  | MRL  | Dilution<br>Factor  | 2  | Method  | Batch  |
| 2 ple ID: NPJ3797-07 (HA-9-10  | 2406 - Grou   | nd Water                                   | ·) - cont. Sa  | mpled: 10/2  | 4/06 09:3  | 30  |  |   |  |
| voiatile Organic Compounds by EPA  |   |  |  | -  |  |   |  |   |  |
| thanol   | ND  |  | ug/L   | 62.0   | 100  | 1   | 11/05/06 06:09   | SW846 8260B   | 6106133  |
| 4 1,2-Dichloroethane-d4 (62-142%)  | 83 %  |  | 8  |  |  | 1   | 11/05/06 06:09   | SW846 8260B   | 6106133  |
| ، Dibromofluoromethane (78-123%)   | 98 %  |  |  |  |  |   | 11/05/06 06:09   | SW846 8260B   | 6106133  |
| ırr: Toluene-d8 (79-120%)  | 94 %  |  |  |  |  | - 1   |  |   | 6106133  |
| 4-Bromofluorobenzene (75-133%)   | 89 %  |  |  |  |  | 1   | 11/05/06 06:09   | SW846 8260B   | 6106133  |
| - , ,  | 09 70   |  |  | ·  |  | 1   | 11/05/06 06:09   | SW846 8260B   | 0100155  |
| Extractable Petroleum Hydrocarbons   |   |  |  |  |  |   |  |   |  |
| viesel   | 3080  | QSG  | ug/L   | 52.9   | 143  | 1   | 11/05/06 03:34   | NWTPH-Dx  | 6105647  |
| 1 xr Oil   | 248   | QSG  | ug/L   | 52.9   | 143  | 1   | 11/05/06 03:34   | NWTPH-Dx  | 6105647  |
| 1 o-Terphenyl (33-147%)  | 51%   |  |  |  |  | 1   | 11/05/06 03:34   | NWTPH-Dx  | 6105647  |
| hurgeable Petroleum Hydrocarbons   |   |  |  |  |  |   |  |   |  |
| ) (C4-C12)   | 7050  |  | ug/L   | 2.00   | 100  | 1   | 10/29/06 02:10   | NWTPH-Gx  | 6105679  |
| u., a,a,a-Trifluorotoluene (63-134%)   | 130%  |  |  |  |  | 1   | 10/29/06 02:10   | NWTPH-Gx  | 6105679  |
| enzene Volatile Organic Compounds  | by EPA Meth<br><b>4890</b>  | od 8260B                                   |  |  |  |   |  |   |  |
| <ul> <li>itIbenzene</li> <li>iyl tert-Butyl Ether</li> <li>nuene</li> <li>ylenes, total</li> <li>nol</li> <li>1,2-Dichloroethane-d4 (62-142%)</li> <li>rr: Dibromofluoromethane (78-123%)</li> <li>Toluene-d8 (79-120%)</li> <li>4-Bromofluorobenzene (75-133%)</li> <li>urgeable Petroleum Hydrocarbons</li> </ul>  | 794<br>ND<br>1480<br>5610<br>ND<br>89 %<br>99 %<br>99 %<br>91 %   |  | ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L                 | 31.0<br>2.30<br>0.310<br>2.20<br>4.40<br>62.0  | 100<br>10.0<br>1.00<br>10.0<br>30.0<br>100   | 1   | 11/05/06 08:01<br>11/05/06 07:33<br>11/05/06 07:05<br>11/05/06 07:33<br>11/05/06 07:05<br>11/05/06 07:05<br>11/05/06 07:05<br>11/05/06 07:05<br>11/05/06 07:05   | SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B  | 6106133<br>6106133<br>6106133<br>6106133<br>6106133<br>6106133<br>6106133<br>6106133<br>6106133  |
| ylenes, total<br>nol<br>1,2-Dichloroethane-d4 (62-142%)<br>rr: Dibromofluoromethane (78-123%)<br>Toluene-d8 (79-120%)<br>4-Bromofluorobenzene (75-133%)  | ND<br>1480<br>5610<br>ND<br>89 %<br>99 %  |  | ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L                         | 2.30<br>0.310<br>2.20<br>4.40<br>62.0  | 10.0<br>1.00<br>10.0<br>30.0<br>100  | 10<br>1<br>10<br>10<br>1<br>1<br>1<br>1<br>1  | 11/05/06 07:33<br>11/05/06 07:05<br>11/05/06 07:33<br>11/05/06 07:03<br>11/05/06 07:05<br>11/05/06 07:05<br>11/05/06 07:05<br>11/05/06 07:05   | SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B  | 6106133<br>6106133<br>6106133<br>6106133<br>6106133<br>6106133<br>6106133<br>6106133<br>6106133  |
| ylenes, total<br>101<br>1,2-Dichloroethane-d4 (62-142%)<br>rr: Dibromofluoromethane (78-123%)<br>Toluene-d8 (79-120%)<br>4-Bromofluorobenzene (75-133%)<br>urgeable Petroleum Hydrocarbons   | ND<br>1480<br>5610<br>ND<br>89 %<br>99 %<br>99 %<br>91 %  |  | ug/L<br>ug/L<br>ug/L<br>ug/L                                 | 2.30<br>0.310<br>2.20<br>4.40  | 10.0<br>1.00<br>10.0<br>30.0   | 10<br>1<br>10<br>10<br>1<br>1<br><i>1</i><br><i>1</i><br><i>1</i><br><i>1</i><br><i>1</i> | 11/05/06 07:33<br>11/05/06 07:05<br>11/05/06 07:33<br>11/05/06 07:05<br>11/05/06 07:05<br>11/05/06 07:05<br>11/05/06 07:05<br>11/05/06 07:05   | SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B  | 6106133<br>6106133<br>6106133<br>6106133<br>6106133<br>6106133<br>6106133  |
| ylenes, total<br>101<br>1,2-Dichloroethane-d4 (62-142%)<br>rr: Dibromofluoromethane (78-123%)<br>17 Toluene-d8 (79-120%)<br>14-Bromofluorobenzene (75-133%)<br>urgeable Petroleum Hydrocarbons<br>(C4-C12)<br>1 a,a,a-Trifluorotoluene (63-134%)<br>11 mple ID: NPJ3797-09 (B-2-1023)<br>12 cted Volatile Organic Compounds I<br>12 and 12 a | ND<br>1480<br>5610<br>ND<br>89%<br>99%<br>99%<br>91%<br>31700<br>74%<br>06-TB - Gro<br>by EPA Metho<br>ND   |  | ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L         | 2.30<br>0.310<br>2.20<br>4.40<br>62.0<br>20.0<br><b>d: 10/23/06</b>  | 10.0<br>1.00<br>10.0<br>30.0<br>100<br>1000<br>15:00<br>1.00                                       | 10<br>1<br>10<br>10<br>1<br>1<br>1<br>1<br>1<br>10<br>10                                  | 11/05/06 07:33<br>11/05/06 07:05<br>11/05/06 07:03<br>11/05/06 07:03<br>11/05/06 07:05<br>11/05/06 07:05<br>11/05/06 07:05<br>11/05/06 07:05<br>11/05/06 02:25<br>10/29/06 02:25   | SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>NWTPH-Gx<br>NWTPH-Gx   | 6106133<br>6106133<br>6106133<br>6106133<br>6106133<br>6106133<br>6106133<br>6106133<br>6105679<br>6105679<br>6105679  |
| ylenes, total<br>101<br>1,2-Dichloroethane-d4 (62-142%)<br>rr: Dibromofluoromethane (78-123%)<br>1 Toluene-d8 (79-120%)<br>4-Bromofluorobenzene (75-133%)<br>urgeable Petroleum Hydrocarbons<br>(C4-C12)<br>a,a,a-Trifluorotoluene (63-134%)<br>mple ID: NPJ3797-09 (B-2-1023)<br>cted Volatile Organic Compounds I<br>mizene<br>hylbenzene  | ND<br>1480<br>5610<br>ND<br>89 %<br>99 %<br>91 %<br>31700<br>74 %<br>06-TB - Gro<br>by EPA Metho<br>ND<br>ND  |  | ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L | 2.30<br>0.310<br>2.20<br>4.40<br>62.0<br>20.0<br><b>d: 10/23/06</b><br>0.310<br>0.230                            | 10.0<br>1.00<br>10.0<br>30.0<br>100<br>100<br>1000<br>15:00<br>1.00<br>1.00                        | 10<br>1<br>10<br>10<br>1<br>1<br>1<br>1<br>1<br>10<br>10<br>10                            | 11/05/06 07:33<br>11/05/06 07:05<br>11/05/06 07:33<br>11/05/06 07:05<br>11/05/06 07:05<br>11/05/06 07:05<br>11/05/06 07:05<br>11/05/06 07:05<br>10/29/06 02:25<br>10/29/06 02:25<br>10/29/06 02:25<br>11/04/06 20:19<br>11/04/06 20:19   | SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>NWTPH-Gx<br>NWTPH-Gx<br>SW846 8260B<br>SW846 8260B  | 6106133<br>6106133<br>6106133<br>6106133<br>6106133<br>6106133<br>6106133<br>6106133<br>6105679<br>6105679<br>6105679  |
| yl tert-Butyl Ether<br>nuene<br>ylenes, total<br>10<br>1,2-Dichloroethane-d4 (62-142%)<br>rr: Dibromofluoromethane (78-123%)<br>Toluene-d8 (79-120%)<br>4-Bromofluorobenzene (75-133%)<br>urgeable Petroleum Hydrocarbons<br>(C4-C12)<br>a,a,a-Trifluorotoluene (63-134%)<br>mple ID: NPJ3797-09 (B-2-1023)<br>cted Volatile Organic Compounds I<br>mzene<br>hylbenzene<br>yl tert-Butyl Ether   | ND<br>1480<br>5610<br>ND<br>89 %<br>99 %<br>91 %<br>31700<br>74 %<br>06-TB - Gro<br>by EPA Meth<br>ND<br>ND   |  | ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L | 2.30<br>0.310<br>2.20<br>4.40<br>62.0<br>20.0<br><b>d: 10/23/06</b><br>0.310<br>0.230<br>0.310                   | 10.0<br>1.00<br>10.0<br>30.0<br>100<br>100<br>1000<br>15:00<br>1.00<br>1.00<br>1.00<br>1.00        | 10<br>1<br>10<br>10<br>1<br>1<br>1<br>1<br>10<br>10<br>10                                 | 11/05/06 07:33<br>11/05/06 07:05<br>11/05/06 07:33<br>11/05/06 07:05<br>11/05/06 07:05<br>11/05/06 07:05<br>11/05/06 07:05<br>11/05/06 07:05<br>10/29/06 02:25<br>10/29/06 02:25<br>10/29/06 02:25<br>11/04/06 20:19<br>11/04/06 20:19<br>11/04/06 20:19   | SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>NWTPH-Gx<br>NWTPH-Gx<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B                                     | 6106133<br>6106133<br>6106133<br>6106133<br>6106133<br>6106133<br>6106133<br>6106133<br>6105679<br>6105679<br>6105679  |
| <ul> <li>iyl tert-Butyl Ether</li> <li>iyl tert-Butyl Ether</li> <li>ivenee</li> <li>iylenes, total</li> <li>ivention in the intervention of the i</li></ul>             | ND<br>1480<br>5610<br>ND<br>89%<br>99%<br>99%<br>91%<br>31700<br>74%<br>06-TB - Gro<br>by EPA Meth<br>ND<br>ND<br>ND  |  | ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L | 2.30<br>0.310<br>2.20<br>4.40<br>62.0<br>20.0<br><b>d: 10/23/06</b><br>0.310<br>0.230<br>0.310<br>0.220          | 10.0<br>1.00<br>10.0<br>30.0<br>100<br>100<br>1000<br>1000<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00 | 10<br>1<br>10<br>10<br>1<br>1<br>1<br>1<br>10<br>10<br>10                                 | 11/05/06 07:33<br>11/05/06 07:05<br>11/05/06 07:03<br>11/05/06 07:05<br>11/05/06 07:05<br>11/05/06 07:05<br>11/05/06 07:05<br>11/05/06 07:05<br>10/29/06 02:25<br>10/29/06 02:25<br>10/29/06 02:25<br>11/04/06 20:19<br>11/04/06 20:19<br>11/04/06 20:19<br>11/04/06 20:19   | SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>NWTPH-Gx<br>NWTPH-Gx<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B                      | 6106133<br>6106133<br>6106133<br>6106133<br>6106133<br>6106133<br>6106133<br>6106133<br>6105679<br>6105679<br>6105679<br>6105679   |
| <ul> <li>iyl tert-Butyl Ether</li> <li>iyl tert-Butyl Ether</li> <li>inol</li> <li><i>1,2-Dichloroethane-d4 (62-142%)</i></li> <li><i>rr: Dibromofluoromethane (78-123%)</i></li> <li><i>Toluene-d8 (79-120%)</i></li> <li><i>4-Bromofluorobenzene (75-133%)</i></li> <li>urgeable Petroleum Hydrocarbons</li> <li>(C4-C12)</li> <li><i>a,a,a-Trifluorotoluene (63-134%)</i></li> <li>imple ID: NPJ3797-09 (B-2-1023)</li> <li>cted Volatile Organic Compounds I</li> <li>inzene</li> <li>hylbenzene</li> <li>yl tert-Butyl Ether</li> <li>ine</li> <li>/lenes, total</li> </ul>   | ND<br>1480<br>5610<br>ND<br>89%<br>99%<br>99%<br>91%<br>31700<br>74%<br>06-TB - Gro<br>by EPA Meth<br>ND<br>ND<br>ND<br>ND<br>ND  |  | ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L | 2.30<br>0.310<br>2.20<br>4.40<br>62.0<br>20.0<br><b>d: 10/23/06</b><br>0.310<br>0.230<br>0.310<br>0.220<br>0.440 | 10.0<br>1.00<br>10.0<br>30.0<br>100<br>100<br>1000<br>1000<br>1.00<br>1.00<br>1.00<br>1.00<br>3.00 | 10<br>1<br>10<br>10<br>1<br>1<br>1<br>1<br>10<br>10<br>10<br>10                           | 11/05/06 07:33<br>11/05/06 07:05<br>11/05/06 07:03<br>11/05/06 07:05<br>11/05/06 07:05<br>11/05/06 07:05<br>11/05/06 07:05<br>11/05/06 07:05<br>10/29/06 02:25<br>10/29/06 02:25<br>10/29/06 02:25<br>11/04/06 20:19<br>11/04/06 20:19<br>11/04/06 20:19<br>11/04/06 20:19<br>11/04/06 20:19                                     | SW846 8260B<br>SW846 8260B                | 6106133<br>6106133<br>6106133<br>6106133<br>6106133<br>6106133<br>6106133<br>6106133<br>6105679<br>6105679<br>6105679<br>6105679   |
| <ul> <li>iyl tert-Butyl Ether</li> <li>iyl tert-Butyl Ether</li> <li>iul</li> <li>i,2-Dichloroethane-d4 (62-142%)</li> <li>rr: Dibromofluoromethane (78-123%)</li> <li>i Toluene-d8 (79-120%)</li> <li>i 4-Bromofluorobenzene (75-133%)</li> <li>urgeable Petroleum Hydrocarbons</li> <li>(C4-C12)</li> <li>a,a,a-Trifluorotoluene (63-134%)</li> <li>imple ID: NPJ3797-09 (B-2-1023)</li> <li>cted Volatile Organic Compounds I</li> <li>inzene</li> <li>hylbenzene</li> <li>yl tert-Butyl Ether</li> <li>ine</li> <li>/lenes, total</li> <li>banol</li> </ul>  | ND<br>1480<br>5610<br>ND<br>89%<br>99%<br>99%<br>91%<br>31700<br>74%<br>06-TB - Gro<br>by EPA Methon<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND                                    |  | ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L | 2.30<br>0.310<br>2.20<br>4.40<br>62.0<br>20.0<br><b>d: 10/23/06</b><br>0.310<br>0.230<br>0.310<br>0.220          | 10.0<br>1.00<br>10.0<br>30.0<br>100<br>100<br>1000<br>1000<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00 | 10<br>1<br>10<br>10<br>1<br>1<br>1<br>1<br>1<br>10<br>10<br>10                            | 11/05/06 07:33<br>11/05/06 07:05<br>11/05/06 07:33<br>11/05/06 07:05<br>11/05/06 07:05<br>11/05/06 07:05<br>11/05/06 07:05<br>11/05/06 07:05<br>10/29/06 02:25<br>10/29/06 02:25<br>10/29/06 02:25<br>11/04/06 20:19<br>11/04/06 20:19<br>11/04/06 20:19<br>11/04/06 20:19<br>11/04/06 20:19<br>11/04/06 20:19<br>11/04/06 20:19 | SW846 8260B<br>SW846 8260B                | 6106133<br>6106133<br>6106133<br>6106133<br>6106133<br>6106133<br>6106133<br>6106133<br>6105679<br>6105679<br>6105679<br>6105679<br>6105633<br>6106133<br>6106133<br>6106133<br>6106133<br>6106133 |
| <ul> <li>iyl tert-Butyl Ether</li> <li>iyl tert-Butyl Ether</li> <li>inol</li> <li><i>1,2-Dichloroethane-d4 (62-142%)</i></li> <li><i>rr: Dibromofluoromethane (78-123%)</i></li> <li><i>Toluene-d8 (79-120%)</i></li> <li><i>4-Bromofluorobenzene (75-133%)</i></li> <li>urgeable Petroleum Hydrocarbons</li> <li>(C4-C12)</li> <li><i>a,a,a-Trifluorotoluene (63-134%)</i></li> <li>Imple ID: NPJ3797-09 (B-2-1023)</li> <li>cted Volatile Organic Compounds I</li> <li>inzene</li> <li>hylbenzene</li> <li>yl tert-Butyl Ether</li> <li>ine</li> <li>/lenes, total</li> <li>hanol</li> <li><i>1,2-Dichloroethane-d4 (62-142%)</i></li> </ul>  | ND<br>1480<br>5610<br>ND<br>89%<br>99%<br>99%<br>91%<br>31700<br>74%<br>06-TB - Gro<br>by EPA Methon<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND      |  | ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L | 2.30<br>0.310<br>2.20<br>4.40<br>62.0<br>20.0<br><b>d: 10/23/06</b><br>0.310<br>0.230<br>0.310<br>0.220<br>0.440 | 10.0<br>1.00<br>10.0<br>30.0<br>100<br>100<br>1000<br>1000<br>1.00<br>1.00<br>1.00<br>1.00<br>3.00 | 10<br>1<br>10<br>10<br>1<br>1<br>1<br>1<br>1<br>10<br>10<br>10                            | 11/05/06 07:33<br>11/05/06 07:05<br>11/05/06 07:03<br>11/05/06 07:05<br>11/05/06 07:05<br>11/05/06 07:05<br>11/05/06 07:05<br>11/05/06 07:05<br>10/29/06 02:25<br>10/29/06 02:25<br>10/29/06 02:25<br>11/04/06 20:19<br>11/04/06 20:19<br>11/04/06 20:19<br>11/04/06 20:19<br>11/04/06 20:19                                     | SW846 8260B<br>SW846 8260B | 6106133<br>6106133<br>6106133<br>6106133<br>6106133<br>6106133<br>6106133<br>6106133<br>6105679<br>6105679<br>6105679<br>6105679<br>6105633<br>6106133<br>6106133<br>6106133<br>6106133<br>6106133 |
| <ul> <li>iyl tert-Butyl Ether</li> <li>iyl tert-Butyl Ether</li> <li>inol</li> <li><i>1,2-Dichloroethane-d4 (62-142%)</i></li> <li><i>rr: Dibromofluoromethane (78-123%)</i></li> <li><i>Toluene-d8 (79-120%)</i></li> <li><i>4-Bromofluorobenzene (75-133%)</i></li> <li>urgeable Petroleum Hydrocarbons</li> <li>(C4-C12)</li> <li><i>a,a,a-Trifluorotoluene (63-134%)</i></li> <li><b>imple ID: NPJ3797-09 (B-2-1023)</b></li> <li>cted Volatile Organic Compounds I</li> <li>inzene</li> <li>hylbenzene</li> <li>yl tert-Butyl Ether</li> <li>ine</li> <li>/lenes, total</li> <li>hanol</li> <li><i>1,2-Dichloroethane-d4 (62-142%)</i></li> <li><i>r. Pibromofluoromethane (78-123%)</i></li> </ul>   | ND<br>1480<br>5610<br>ND<br>89%<br>99%<br>91%<br>31700<br>74%<br>06-TB - Gro<br>by EPA Methon<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND |  | ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L | 2.30<br>0.310<br>2.20<br>4.40<br>62.0<br>20.0<br><b>d: 10/23/06</b><br>0.310<br>0.230<br>0.310<br>0.220<br>0.440 | 10.0<br>1.00<br>10.0<br>30.0<br>100<br>100<br>1000<br>1000<br>1.00<br>1.00<br>1.00<br>1.00<br>3.00 | 10<br>1<br>10<br>10<br>1<br>1<br>1<br>1<br>1<br>10<br>10<br>10<br>10                      | 11/05/06 07:33<br>11/05/06 07:05<br>11/05/06 07:33<br>11/05/06 07:05<br>11/05/06 07:05<br>11/05/06 07:05<br>11/05/06 07:05<br>11/05/06 07:05<br>10/29/06 02:25<br>10/29/06 02:25<br>10/29/06 02:25<br>11/04/06 20:19<br>11/04/06 20:19<br>11/04/06 20:19<br>11/04/06 20:19<br>11/04/06 20:19<br>11/04/06 20:19<br>11/04/06 20:19 | SW846 8260B<br>SW846 8260B                | 6106133<br>6106133<br>6106133<br>6106133<br>6106133<br>6106133<br>6106133<br>6106133<br>6105679<br>6105679<br>6105679<br>6105679<br>6105633<br>6106133<br>6106133<br>6106133<br>6106133<br>6106133 |
| <ul> <li>iyl tert-Butyl Ether</li> <li>iyl tert-Butyl Ether</li> <li>inol</li> <li><i>1,2-Dichloroethane-d4 (62-142%)</i></li> <li><i>rr: Dibromofluoromethane (78-123%)</i></li> <li><i>Toluene-d8 (79-120%)</i></li> <li><i>4-Bromofluorobenzene (75-133%)</i></li> <li>urgeable Petroleum Hydrocarbons</li> <li>(C4-C12)</li> <li><i>a,a,a-Trifluorotoluene (63-134%)</i></li> <li>Imple ID: NPJ3797-09 (B-2-1023)</li> <li>cted Volatile Organic Compounds I</li> <li>inzene</li> <li>hylbenzene</li> <li>yl tert-Butyl Ether</li> <li>ine</li> <li>/lenes, total</li> <li>hanol</li> <li><i>1,2-Dichloroethane-d4 (62-142%)</i></li> </ul>  | ND<br>1480<br>5610<br>ND<br>89%<br>99%<br>99%<br>91%<br>31700<br>74%<br>06-TB - Gro<br>by EPA Methon<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND      |  | ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L<br>ug/L | 2.30<br>0.310<br>2.20<br>4.40<br>62.0<br>20.0<br><b>d: 10/23/06</b><br>0.310<br>0.230<br>0.310<br>0.220<br>0.440 | 10.0<br>1.00<br>10.0<br>30.0<br>100<br>100<br>1000<br>1000<br>1.00<br>1.00<br>1.00<br>1.00<br>3.00 | 10<br>1<br>10<br>10<br>1<br>1<br>1<br>1<br>10<br>10<br>10<br>1                            | 11/05/06 07:33<br>11/05/06 07:05<br>11/05/06 07:03<br>11/05/06 07:05<br>11/05/06 07:05<br>11/05/06 07:05<br>11/05/06 07:05<br>11/05/06 07:05<br>10/29/06 02:25<br>10/29/06 02:25<br>10/29/06 02:25<br>11/04/06 20:19<br>11/04/06 20:19<br>11/04/06 20:19<br>11/04/06 20:19<br>11/04/06 20:19                                     | SW846 8260B<br>SW846 8260B | 6106133<br>6106133<br>6106133<br>6106133<br>6106133<br>6106133<br>6106133<br>6106133<br>6105679<br>6105679<br>6105679<br>6105679<br>6105633<br>6106133<br>6106133<br>6106133<br>6106133<br>6106133 |

### **IESUMERICA** ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Road Nashville, TN 37204 \* 800-765-0980 \* Fax 615-726-3404

| ANALYTICAL TES  | 1 296       | 2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404 |                |              |  |  |                                  |                            |                  |  |
|---|-------------|--|----------------|--------------|--|--|----------------------------------|----------------------------|------------------|--|
| Client Acton Mickelson Environmental, Inc. (13785)<br>5175 Hillsdale Circle, Suite 100<br>El Dorado Hills, CA 95762<br>Attn Jennifer Guthmiller |             |  |                | Projec       | Order:<br>ct Name:<br>ct Number:<br>ved: | NPJ3797<br>(06) Former Renton Terminal #46-080<br>13042.01<br>10/27/06 08:00 |                                  |                            |                  |  |
|   |             |  | ANALY          | TICAL REPO   | ORT                                      |  |                                  |                            |                  |  |
| Analyte   | Result      | Flag   | Units          | MDL          | MRL                                      | Dilution<br>Factor   | •                                | Method                     | Bate             |  |
| Sample ID: NPJ3797-09 (B-2-1023)  | 06-TB - Gro | ound Wat   | er) - cont.    | Sampled: 1   | 10/23/06 15                              | 5:00   |                                  |                            |                  |  |
| Purgeable Petroleum Hydrocarbons  |             |  |                |              |  |  |                                  |                            |                  |  |
| GRO (C4-C12)  | 9.85        | J  | ug/L           | 2.00         | 100                                      | 1  | 10/30/06 06:54                   | NWTPH-Gx                   | 610578           |  |
| Surr: a,a,a-Trifluorotoluene (63-134%)  | 81 %        | ÷  | ч <u></u> д 11 | 20,00        | 100                                      |  |                                  | NWTPH-Gx                   | 610578           |  |
| ··· ·   | 01.70       |  |                |              |  | . 1  | 10/30/06 06:54                   | NWITT-OX                   | 01007            |  |
| Sample ID: NPJ3797-10 (HA-4-102   | 2406 - Grou | nd Water`  | ) Sampled      | : 10/24/06 1 | 10:00                                    |  |                                  |                            |                  |  |
| Selected Volatile Organic Compounds b   |             |  |                |              |  |  |                                  |                            |                  |  |
| Benzene   | 60.6        |  | ug/L           | 0.310        | 1.00                                     | 1  | 11/05/06 20:34                   | SW846 8260B                | 610613           |  |
| Ethylbenzene  | 2.92        |  | ug/L           | 0.230        | 1.00                                     | 1  | 11/05/06 20:34                   | SW846 8260B                | 610613           |  |
| Methyl tert-Butyl Ether   | ND          |  | ug/L           | 0.310        | 1.00                                     | 1  | 11/05/06 20:34                   | SW846 8260B                | 610613           |  |
| Toluene   | 21.0        |  | ug/L           | 0.220        | 1.00                                     | 1  | 11/05/06 20:34                   | SW846 8260B                | 610613           |  |
| Xylenes, total  | 19.2        |  | ug/L           | 0.440        | 3.00                                     | 1  | 11/05/06 20:34                   | SW846 8260B                | 610613           |  |
| Ethanol   | ND          |  | ug/L           | 62.0         | 100                                      | 1  | 11/05/06 20:34                   | SW846 8260B                | 610613           |  |
| Surr: 1,2-Dichloroethane-d4 (62-142%)   | 102 %       |  | -              |              |  | 1  | 11/05/06 20:34                   | SW846 8260B                | 61061            |  |
| Surr: Dibromofluoromethane (78-123%)  | 95 %        |  |                |              |  |  | 11/05/06 20:34                   | SW846 8260B                | 61061            |  |
| Surr: Toluene-d8 (79-120%)  | 101 %       |  |                |              |  | 1  |                                  | SW846 8260B<br>SW846 8260B | 61061            |  |
| : 4-Bromofluorobenzene (75-133%)  | 101 %       |  |                |              |  | 1  | 11/05/06 20:34                   |                            | 61061            |  |
|   | 10070       |  |                |              |  | 1  | 11/05/06 20:34                   | SW846 8260B                | Ux UUx.          |  |
| Extractable Petroleum Hydrocarbons  |             |  |                |              |  |  |                                  |                            |                  |  |
| Diesel<br>Mater Oil   | 325         | QSG  | ug/L           | 74.0         | 200                                      | 1  | 11/05/06 03:55                   | NWTPH-Dx                   | 610564           |  |
| Motor Oil   | 672         | QSG  | ug/L           | 74.0         | 200                                      | 1  | 11/05/06 03:55                   | NWTPH-Dx                   | 610564           |  |
| Surr: o-Terphenyl (33-147%)   | 44 %        |  |                |              |  | 1  | 11/05/06 03:55                   | NWTPH-Dx                   | 61056            |  |
| Purgeable Petroleum Hydrocarbons  |             |  |                |              |  |  |                                  |                            |                  |  |
| GRO (C4-C12)  | 275         |  | ug/L           | 2.00         | 100                                      | 1  | 11/04/06 12:44                   | NWTPH-Gx                   | 611093           |  |
| Surr: a,a,a-Trifluorotoluene (63-134%)  | 115 %       |  | - 0            |              |  |  | 11/04/06 12:44                   | NWTPH-Gx                   | 61109            |  |
|   |             |  |                |              |  | . 1  | 11/04/00 12.44                   | 1111 11 11-00              |                  |  |
| Sample ID: NPJ3797-11 (W-3-1024   |             |  | Sampled:       | 10/24/06 10  | / <b>:40</b>                             |  |                                  |                            |                  |  |
| Selected Volatile Organic Compounds by  | y EPA Methc | od 8260B   |                |              |  |  |                                  |                            |                  |  |
| Benzene   | 933         |  | ug/L           | 6.20         | 20.0                                     | 20   | 11/07/06 20:04                   | SW846 8260B                | 610613           |  |
| Ethylbenzene  | 293         |  | ug/L           | 4.60         | 20.0                                     | 20   | 11/07/06 20:04                   | SW846 8260B                | 610613           |  |
| Methyl tert-Butyl Ether   | ND          |  | ug/L           | 0.310        | 1.00                                     | 1  | 11/07/06 19:36                   | SW846 8260B                | 610613           |  |
| Foluene   | 21.3        |  | ug/L           | 0.220        | 1.00                                     | 1  | 11/07/06 19:36                   | SW846 8260B                | 610613           |  |
| Xylenes, total  | 638         |  | ug/L           | 8.80         | 60.0                                     | 20   | 11/07/06 20:04                   | SW846 8260B                | 610613           |  |
| Ethanol   | ND          |  | ug/L           | 62.0         | 100                                      | 1  | 11/07/06 19:36                   | SW846 8260B                | 610613           |  |
| Surr: 1,2-Dichloroethane-d4 (62-142%)   | 100 %       |  |                |              |  | 1  | 11/07/06 19:36                   | SW846 8260B                | 61061            |  |
| Surr: Dibromofluoromethane (78-123%)  | 95 %        |  |                |              |  | -  | 11/07/06 19:36                   | SW846 8260B                | 61061            |  |
| Surr: Toluene-d8 (79-120%)  | 94 %        |  |                |              |  | •  | 11/07/06 19:36                   | SW846 8260B                | 61061            |  |
| urr: 4-Bromofluorobenzene (75-133%)   | 93 %        |  |                |              |  | -  | 11/07/06 19:36                   | SW846 8260B<br>SW846 8260B | 61061            |  |
| Extractable Petroleum Hydrocarbons  |             |  |                |              |  | T  | 11/0//00 27.2.                   | <i>bii 412 2 - 1</i>       |                  |  |
| Diesel  | 2300        | QSG  | ng/I           | 35.2         | 95.2                                     | 1  | 11/05/06 04-56                   | NWTPH-Dx                   | 61056            |  |
| Viotor Oil  | 2300<br>ND  | QSG  | ug/L<br>ug/L   | 35.2         | 95.2<br>95.2                             | 1  | 11/05/06 04:56<br>11/05/06 04:56 | NWTPH-DX<br>NWTPH-Dx       | 610564<br>610564 |  |
| o-Terphenyl (33-147%)   | 64 %        | 620  | ugh            | 33.4         | 22.20                                    |  |                                  |                            | 61056            |  |
|   | 07 /0       |  |                |              |  | 1  | 11/05/06 04:56                   | NWTPH-Dx                   | 01020            |  |
| Purgeable Petroleum Hydrocarbons  |             |  |                |              |  |  |                                  |                            |                  |  |

Purgeable Petroleum Hydrocarbons

# **Iest/America**

| ClientActon Mickelson Environment5175 Hillsdale Circle, Suite 100El Dorado Hills, CA 95762 | ,   |  |                                 | Project 1      | Work Order:<br>Project Name:<br>Project Number: |                    | NPJ3797<br>(06) Former Renton Terminal #46-080<br>13042.01 |                             |                        |  |  |
|--|---|--|---------------------------------|----------------|---|--------------------|--|-----------------------------|------------------------|--|--|
| Attn Jennifer Guthmiller   | 72.434.842.464.744.6147.84976488648864888688            |  | denisionini-constantegraf, perf | Received       | d:  | 10/27/06 08:0      |  |                             |                        |  |  |
|  | 199911987-194911989199919919420194211211942149221942194 | and an | ANALY                           | TICAL REPO     | RT  |                    |  |                             |                        |  |  |
| Analyte  | Result  | Flag                                       | Units                           | MDL            | MRL   | Dilution<br>Factor | •  | e Method                    | Bate                   |  |  |
| Sample ID: NPJ3797-11RE1 (W-<br>Purgeable Petroleum Hydrocarbons -                         |   | round W                                    | ater) - cont                    | t. Sampled: 1  | . <b>0/24/06</b> J                              | 10:40              |  |                             |                        |  |  |
| GRO (C4-C12)   | 12200   |  | ng/I                            | 20.0           | 1000  | 10                 | 11/04/06 12:00   | ANI/TDH Gy                  | 61100                  |  |  |
| Surr: a,a,a-Trifluorotoluene (63-134%)   | 110 %   |  | ug/L                            | 20.0           | 1000  | 10                 | 11/04/06 13:08<br>11/04/06 13:08                           | NWTPH-Gx<br><i>NWTPH-Gx</i> | 611093<br><i>61109</i> |  |  |
| Samela ID. ND 13707 12 (33/ # 10/  | AAC CHANK   | - T WEI of and                             | Germlada                        | 10/24/06 11.   | 4 #   | 10                 | 11/03/00 10:00   |                             |                        |  |  |
| Sample ID: NPJ3797-12 (W-4-102<br>Selected Volatile Organic Compounds                      |   |  | Sampieu:                        | 10/24/00 11:1  | 15  |                    |  |                             |                        |  |  |
| Benzene  | 1520  | 00 02001                                   | ug/L                            | 15.5           | 50.0  | 50                 | 11/07/06 21:00   | SW846 8260B                 | 610613                 |  |  |
| Cthylbenzene   | 1490  |  | ug/L<br>ug/L                    | 11.5           | 50.0  | 50                 | 11/07/06 21:00   | SW846 8260B                 | 61061                  |  |  |
| fethyl tert-Butyl Ether  | ND  |  | ug/L<br>ug/L                    | 0.310          | 1.00  | 1                  | 11/07/06 20:32   | SW846 8260B                 | 61061                  |  |  |
| oluene   | 8.34  |  | ug/L<br>ug/L                    | 0.220          | 1.00  | 1                  | 11/07/06 20:32   | SW846 8260B                 | 61061                  |  |  |
| lylenes, total   | 18.9  |  | ug/L                            | 0.440          | 3.00  | 1                  | 11/07/06 20:32   | SW846 8260B                 | 61061                  |  |  |
| thanol   | ND  |  | ug/L                            | 62.0           | 100   | 1                  | 11/07/06 20:32   | SW846 8260B                 | 61061                  |  |  |
| urr: 1,2-Dichloroethane-d4 (62-142%)   | 94 %  |  | C                               |                |   | 1                  | 11/07/06 20:32   | SW846 8260B                 | 6106                   |  |  |
| urr: Dibromofluoromethane (78-123%)  | 93 %  |  |                                 |                |   |                    | 11/07/06 20:32   | SW846 8260B                 | 61061                  |  |  |
| urr: Toluene-d8 (79-120%)  | 90 %  |  |                                 |                |   | 1                  |  |                             | 61061                  |  |  |
| 4-Bromofluorobenzene (75-133%)   | 100 %   |  |                                 |                |   | 1<br>1             | 11/07/06 20:32<br>11/07/06 20:32                           | SW846 8260B<br>SW846 8260B  | 61061                  |  |  |
| Extractable Petroleum Hydrocarbons   |   |  |                                 |                |   | Ŧ                  | Ax/0//00 =   |                             |                        |  |  |
| Diesel   | 5570  | QSG  | ug/L                            | 70.5           | 190   | 2                  | 11/06/06 10:46   | NWTPH-Dx                    | 610564                 |  |  |
| fotor Oil  | ND  | QSG  | ug/L<br>ug/L                    | 70.5           | 190   | 2                  | 11/06/06 10:46   | NWTPH-Dx                    | 610564                 |  |  |
| urr: o-Terphenyl (33-147%)   | 64 %  | <b>X</b>                                   |                                 | ,              |   | 2                  | 11/06/06 10:46   | NWTPH-Dx                    | 61056                  |  |  |
| Purgeable Petroleum Hydrocarbons   |   |  |                                 |                |   | -                  |  |                             |                        |  |  |
| RO (C4-C12)  | 17200   |  | ug/L                            | 20.0           | 1000  | 10                 | 11/04/06 13:31   | NWTPH-Gx                    | 611093                 |  |  |
| urr: a,a,a-Trifluorotoluene (63-134%)  | 108 %   |  | սերը                            | 20.0           | 1000  |                    |  | NWTPH-Gx                    | 611092                 |  |  |
|  |   |  |                                 |                |   | 10                 | 11/04/06 13:31   | IV# 111-0x                  | 0110,                  |  |  |
| ample ID: NPJ3797-13 (HA-14-10   |   |  | r) Sampled                      | : 10/24/06 12  | :10   |                    |  |                             |                        |  |  |
| elected Volatile Organic Compounds   | -   | d 8260B                                    |                                 |                |   |                    |  |                             |                        |  |  |
| enzene   | 12.3  |  | ug/L                            | 0.310          | 1.00  | 1                  | 11/04/06 21:16   | SW846 8260B                 | 610613                 |  |  |
| thylbenzene<br>Iathyl tart Dutyl Ethar   | 9.60  |  | ug/L                            | 0.230          | 1.00  |                    | 11/04/06 21:16   | SW846 8260B                 | 610613                 |  |  |
| fethyl tert-Butyl Ether<br>oluene  | ND  |  | ug/L                            | 0.310          | 1.00  |                    | 11/04/06 21:16   | SW846 8260B                 | 610613                 |  |  |
| ylenes, total  | 2.06<br>1.42  | J  | ug/L                            | 0.220<br>0.440 | 1.00<br>3.00                                    |                    | 11/04/06 21:16   | SW846 8260B                 | 610613                 |  |  |
| thanol   | 1.42<br>ND  | J  | ug/L<br>vg/I                    |                | 3.00  |                    |  | SW846 8260B                 | 610613                 |  |  |
| uranoi<br>urr: 1,2-Dichloroethane-d4 (62-142%)   | ND<br>99 %  |  | ug/L                            | 62.0           | 100   |                    | 11/04/06 21:16   | SW846 8260B                 | 610613                 |  |  |
| rr: Dibromofluoromethane (78-123%)   |   |  |                                 |                |   | -                  |  | SW846 8260B                 | 610613                 |  |  |
|  | 106 %   |  |                                 |                |   | _                  |  | SW846 8260B                 | 610613                 |  |  |
| rr: Toluene-d8 (79-120%)   | 109 %   |  |                                 |                |   | 1 1                | 11/04/06 21:16   | SW846 8260B                 | 610613                 |  |  |
| rr: 4-Bromofluorobenzene (75-133%)   | 88 %  |  |                                 |                |   | 1 1                | 11/04/06 21:16   | SW846 8260B                 | 61061.                 |  |  |
| urgeable Petroleum Hydrocarbons  |   |  |                                 |                |   |                    |  |                             |                        |  |  |
| RO (C4-C12)  | 288   |  | ug/L                            | 2.00           | 100   | 1                  | 11/04/06 13:55   | NWTPH-Gx                    | 6110934                |  |  |
| rr: a,a,a-Trifluorotoluene (63-134%)   | 105 %   |  |                                 |                |   | 1 1                | 11/04/06 13:55   | NWTPH-Gx                    | 61109.                 |  |  |

ple ID: NPJ3797-14 (HA-13-102406 - Ground Water) Sampled: 10/24/06 12:20 Selected Volatile Organic Compounds by EPA Method 8260B

| ( ~~nt     | Acton Mickelson Environmental, Inc. (13785) | Work Order:     | NPJ3797                             |
|------------|---|-----------------|-------------------------------------|
|            | 5175 Hillsdale Circle, Suite 100            | Project Name:   | (06) Former Renton Terminal #46-080 |
|            | El Dorado Hills, CA 95762                   | Project Number: | 13042.01                            |
|            | Jennifer Guthmiller                         | Received:       | 10/27/06 08:00                      |
| Downserson |   |                 |                                     |

|  |             |          |               | FICAL REPO     |              | Dilution           | Analysic                         |                            |                    |
|--|-------------|----------|---------------|----------------|--------------|--------------------|----------------------------------|----------------------------|--------------------|
| Analyte  | Result      | Flag     | Units         | MDL            | MRL          | Dilution<br>Factor | Analysis<br>Date/Time            | Method                     | Batch              |
| ( ple ID: NPJ3797-14 (HA-13-10                 | 02406 - Gro | und Wate | er) - cont. S | Sampled: 10    | /24/06 12:20 | )                  |                                  |                            |                    |
| Selected Volatile Organic Compounds            | by EPA Meth | od 8260B | - cont.       |                |              |                    |                                  |                            |                    |
| lenzene  | 7.34        |          | ug/L          | 0.310          | 1.00         | 1                  | 11/05/06 01:56                   | SW846 8260B                | 6106133            |
| lbenzene                                       | 0.770       | J        | ug/L          | 0.230          | 1.00         | 1                  | 11/05/06 01:56                   | SW846 8260B                | 6106133            |
| 4culyl tert-Butyl Ether                        | ND          |          | ug/L          | 0.310          | 1.00         | 1                  | 11/05/06 01:56                   | SW846 8260B                | 6106133            |
| oluene   | 1.83        |          | ug/L          | 0.220          | 1.00         | 1                  | 11/05/06 01:56                   | SW846 8260B                | 6106133            |
| nes, total                                     | 0.750       | J        | ug/L          | 0.440          | 3.00         | 1                  | 11/05/06 01:56                   | SW846 8260B                | 6106133            |
| i nol  | ND          |          | ug/L          | 62.0           | 100          | 1                  | 11/05/06 01:56                   | SW846 8260B                | 6106133            |
| urr: 1,2-Dichloroethane-d4 (62-142%)           | 98 %        |          |               |                |              | 1                  | 11/05/06 01:56                   | SW846 8260B                | 6106133            |
| 1 <sup>ew</sup> Dibromofluoromethane (78-123%) | 106 %       |          |               |                |              | 1                  | 11/05/06 01:56                   | SW846 8260B                | 6106133            |
| 1 Toluene-d8 (79-120%)                         | 110%        |          |               |                |              |                    |                                  | SW846 8260B                | 6106133            |
| ırr: 4-Bromofluorobenzene (75-133%)            | 86 %        |          |               |                |              | 1                  | 11/05/06 01:56                   |                            | 6106133            |
|  | 80 %        |          |               |                |              | Ι                  | 11/05/06 01:56                   | SW846 8260B                | 010015.            |
| i catable Petroleum Hydrocarbons               |             |          |               |                |              |                    |                                  |                            |                    |
|  | ND          | QSG      | ug/L          | 37.8           | 102          | 1                  | 11/05/06 05:37                   | NWTPH-Dx                   | 6105647            |
| fotor Oil                                      | ND          | QSG      | ug/L          | 37.8           | 102          | 1                  | 11/05/06 05:37                   | NWTPH-Dx                   | 6105647            |
| ırr: o-Terphenyl (33-147%)                     | 80 %        |          |               |                |              | 1                  | 11/05/06 05:37                   | NWTPH-Dx                   | 6105647            |
| •ole Petroleum Hydrocarbons                    |             |          |               |                |              |                    |                                  |                            |                    |
| RO (C4-C12)                                    | 100         |          | ug/L          | 2.00           | 100          | 1                  | 11/03/06 19:31                   | NWTPH-Gx                   | 6110644            |
| um a,a,a-Trifluorotoluene (63-134%)            | 109%        |          |               |                |              | 1                  | 11/03/06 19:31                   | NWTPH-Gx                   | 6110644            |
|  |             | B WW7 4  |               | 10/01/06 10    |              |                    |                                  |                            |                    |
| anaple ID: NPJ3797-15 (HA-5-102                |             |          | ) Sampled     | : 10/24/06 12  | 2:30         |                    |                                  |                            |                    |
| elected Volatile Organic Compounds b           | -           | 00 8200B | ~             | 0.210          | 1.00         | 1                  |                                  |                            | (10(122            |
| ene  | 22.7        |          | ug/L          | 0.310          | 1.00         | 1                  | 11/04/06 21:44                   | SW846 8260B                | 6106133            |
| benzene  | 1.72<br>ND  |          | ug/L          | 0.230          | 1.00         | 1                  | 11/04/06 21:44                   | SW846 8260B                | 6106133            |
| lethyl tert-Butyl Ether                        | 3.42        |          | ug/L          | 0.310<br>0.220 | 1.00<br>1.00 | 1                  | 11/04/06 21:44                   | SW846 8260B                | 6106133            |
| y nes, total                                   | 2.92        | J        | ug/L          | 0.220          | 3.00         | 1                  | 11/04/06 21:44<br>11/04/06 21:44 | SW846 8260B<br>SW846 8260B | 6106133<br>6106133 |
|  | ND          | 3        | ug/L<br>ug/L  | 62.0           | 100          | 1                  | 11/04/06 21:44                   | SW846 8260B                | 6106133            |
| rr: 1,2-Dichloroethane-d4 (62-142%)            | 98 %        |          | ug/L          | 02.0           | 100          |                    |                                  |                            | 6106133            |
| Dibromofluoromethane (78-123%)                 |             |          |               |                |              | -                  | 11/04/06 21:44                   | SW846 8260B                |                    |
|  | 105 %       |          |               |                |              | 1                  | 11/04/06 21:44                   | SW846 8260B                | 6106133            |
| Toluene-d8 (79-120%)                           | 102 %       |          |               |                |              | 1                  | 11/04/06 21:44                   | SW846 8260B                | 6106133            |
| rr: 4-Bromofluorobenzene (75-133%)             | 88 %        |          |               |                |              | 1                  | 11/04/06 21:44                   | SW846 8260B                | 6106133            |
| actable Petroleum Hydrocarbons                 |             |          |               |                |              |                    |                                  |                            |                    |
| icsel  | 178         | QSG      | ug/L          | 35.8           | 94.3         | 1                  | 11/04/06 07:00                   | NWTPH-Dx                   | 6105648            |
| otor Oil                                       | ND          | QSG      | ug/L          | 35.8           | 94.3         | 1                  | 11/04/06 07:00                   | NWTPH-Dx                   | 6105648            |
| o-Terphenyl (51-142%)                          | 65 %        |          | ÷             |                |              | 1                  | 11/04/06 07:00                   | NWTPH-Dx                   | 6105648            |
| Lageable Petroleum Hydrocarbons                |             |          |               |                |              | -                  | ·                                |                            |                    |
| RO (C4-C12)                                    | 303         |          | 110/I         | 2.00           | 100          | 1                  | 11/02/06 10:57                   | NWTPH-Gx                   | 6110644            |
| a,a,a-Trifluorotoluene (63-134%)               |             |          | ug/L          | 2.00           | 100          |                    | 11/03/06 19:57                   |                            | 6110644            |
| a, a, a 11 g 1001 0101 active (00-10770)       | 103 %       |          |               |                |              | 1                  | 11/03/06 19:57                   | NWTPH-Gx                   | 0110044            |

## **Test/America**

ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Road Nashville, TN 37204 \* 800-765-0980 \* Fax 615-726-3404

| Client | Acton Mickelson Environmental, Inc. (13785) |  |
|--------|---|--|
|        | 5175 Hillsdale Circle, Suite 100            |  |
|        | El Dorado Hills, CA 95762                   |  |
| Attn   | Jennifer Guthmiller                         |  |

 Work Order:
 NPJ3797

 Project Name:
 (06) Former Renton Terminal #46-080

 Project Number:
 13042.01

 Received:
 10/27/06 08:00

|  |                                     |            | ANALY        | FICAL REPO    | ANALYTICAL REPORT |                    |  |   |   |  |  |  |  |  |  |
|--|-------------------------------------|------------|--------------|---------------|-------------------|--------------------|--|---|---|--|--|--|--|--|--|
| Analyte  | Result                              | Flag       | Units        | MDL           | MRL               | Dilution<br>Factor | •  | Method  | Batch   |  |  |  |  |  |  |
| Sample ID: NPJ3797-16 (HA-7-102  | 2406 - Grou                         | nd Water   | ) Sampled    | : 10/24/06 12 | 2:45              |                    |  |   |   |  |  |  |  |  |  |
| Selected Volatile Organic Compounds  | by EPA Meth                         | od 8260B   |              | -             |                   |                    |  |   |   |  |  |  |  |  |  |
| Benzene  | 46.9                                |            | ug/L         | 0.310         | 1.00              | 1                  | 11/04/06 22:12   | SW846 8260B   | 6106133   |  |  |  |  |  |  |
| Ethylbenzene   | 7.86                                |            | ug/L         | 0.230         | 1.00              | 1                  | 11/04/06 22:12   | SW846 8260B   | 6106133   |  |  |  |  |  |  |
| Methyl tert-Butyl Ether  | ND                                  |            | ug/L         | 0.310         | 1.00              | 1                  | 11/04/06 22:12   | SW846 8260B   | 6106133   |  |  |  |  |  |  |
| Toluene  | 4.32                                |            | ug/L         | 0.220         | 1.00              | 1                  | 11/04/06 22:12   | SW846 8260B   | 6106133   |  |  |  |  |  |  |
| Xylenes, total   | 23.5                                |            | ug/L         | 0.440         | 3.00              | 1                  | 11/04/06 22:12   | SW846 8260B   | 6106133   |  |  |  |  |  |  |
| Ethanol  | ND                                  |            | ug/L         | 62.0          | 100               | 1                  | 11/04/06 22:12   | SW846 8260B   | 6106133   |  |  |  |  |  |  |
| Surr: 1,2-Dichloroethane-d4 (62-142%)  | 96 %                                |            |              |               |                   | 1                  | 11/04/06 22:12   | SW846 8260B   | 6106133   |  |  |  |  |  |  |
| Surr: Dibromofluoromethane (78-123%)   | 105 %                               |            |              |               |                   | 1                  | 11/04/06 22:12   | SW846 8260B   | 6106133   |  |  |  |  |  |  |
| Surr: Toluene-d8 (79-120%)   | 105 %                               |            |              |               |                   |                    | 11/04/06 22:12   | SW846 8260B   | 6106133   |  |  |  |  |  |  |
| Surr: 4-Bromofluorobenzene (75-133%)   | 88 %                                |            |              |               |                   | 1                  |  |   | 6106133   |  |  |  |  |  |  |
|  | 00 70                               |            |              |               |                   | 1                  | 11/04/06 22:12   | SW846 8260B   | 0100133   |  |  |  |  |  |  |
| Extractable Petroleum Hydrocarbons   | 4.0.40                              | 000        |              |               |                   |                    |  |   |   |  |  |  |  |  |  |
| Diesel<br>Motor Oil  | 1040                                | QSG        | ug/L         | 36.2          | 95.2              | 1                  | 11/04/06 07:20   | NWTPH-Dx  | 6105648   |  |  |  |  |  |  |
|  | 408                                 | QSG        | ug/L         | 36.2          | 95.2              | 1                  | 11/04/06 07:20   | NWTPH-Dx  | 6105648   |  |  |  |  |  |  |
| Surr: o-Terphenyl (51-142%)  | 47 %                                | Ζ          |              |               |                   | 1                  | 11/04/06 07:20   | NWTPH-Dx  | 6105648   |  |  |  |  |  |  |
| argeable Petroleum Hydrocarbons  |                                     |            |              |               |                   |                    |  |   |   |  |  |  |  |  |  |
| GRO (C4-C12)   | 537                                 |            | ug/L         | 2.00          | 100               | 1                  | 11/03/06 20:24   | NWTPH-Gx  | 6110644   |  |  |  |  |  |  |
| Surr: a,a,a-Trifluorotoluene (63-134%)   | 107 %                               |            |              |               |                   | 1                  | 11/03/06 20:24   | NWTPH-Gx  | 6110644   |  |  |  |  |  |  |
| Sample ID: NPJ3797-17 (HA-12-10  | )2406 - Grou                        | ind Wate   | r) Sampleo   | 1: 10/24/06 1 | 3:45              |                    |  |   |   |  |  |  |  |  |  |
| Selected Volatile Organic Compounds b  | by EPA Metho                        | od 8260B   |              |               |                   |                    |  |   |   |  |  |  |  |  |  |
| Benzene  | 4.85                                |            | ug/L         | 0.310         | 1.00              | 1                  | 11/05/06 02:24   | SW846 8260B   | 6106133   |  |  |  |  |  |  |
| Ethylbenzene   | 0.860                               | J          | ug/L         | 0.230         | 1.00              | 1                  | 11/05/06 02:24   | SW846 8260B   | 6106133   |  |  |  |  |  |  |
| Methyl tert-Butyl Ether  | ND                                  |            | ug/L         | 0.310         | 1.00              | 1                  | 11/05/06 02:24   | SW846 8260B   | 6106133   |  |  |  |  |  |  |
| Toluene  | 1.60                                |            | ug/L         | 0.220         | 1.00              | 1                  | 11/05/06 02:24   | SW846 8260B   | 6106133   |  |  |  |  |  |  |
| Xylenes, total   | 0.870                               | J          | ug/L         | 0.440         | 3.00              | 1                  | 11/05/06 02:24   | SW846 8260B   | 6106133   |  |  |  |  |  |  |
| Ethanol  | ND                                  |            | ug/L         | 62.0          | 100               | 1                  | 11/05/06 02:24   | SW846 8260B   | 6106133   |  |  |  |  |  |  |
| Surr: 1,2-Dichloroethane-d4 (62-142%)  | 97 %                                |            |              |               |                   |                    | 11/05/04 00 04   | SW846 8260B   |   |  |  |  |  |  |  |
| Surr: Dibromofluoromethane (78-123%)   |                                     |            |              |               |                   | 7                  | 11/05/06 02+24   | 0 $W$ $0$ $4$ $0$ $A$ $0$ $U$ $0$ $V$                             |   |  |  |  |  |  |  |
|  | 105%                                |            |              |               |                   | _                  | 11/05/06 02:24   | •   | 6106133   |  |  |  |  |  |  |
|  | 105 %                               |            |              |               |                   | 1                  | 11/05/06 02:24   | SW846 8260B   | 6106133<br>6106133  |  |  |  |  |  |  |
| Surr: Toluene-d8 (79-120%)   | 113 %                               |            |              |               |                   | 1<br>1             | 11/05/06 02:24<br>11/05/06 02:24   | SW846 8260B<br>SW846 8260B  | 6106133<br>6106133<br>6106133   |  |  |  |  |  |  |
| Surr: Toluene-d8 (79-120%)<br>Surr: 4-Bromofluorobenzene (75-133%)   |                                     |            |              |               |                   | 1<br>1             | 11/05/06 02:24   | SW846 8260B   | 6106133<br>6106133  |  |  |  |  |  |  |
| Surr: Toluene-d8 (79-120%)<br>Surr: 4-Bromofluorobenzene (75-133%)<br>Extractable Petroleum Hydrocarbons   | 113 %<br>89 %                       | 005        |              |               |                   | 1<br>1<br>1        | 11/05/06 02:24<br>11/05/06 02:24<br>11/05/06 02:24                                     | SW846 8260B<br>SW846 8260B<br>SW846 8260B                         | 6106133<br>6106133<br>6106133<br>6106133                                  |  |  |  |  |  |  |
| Surr: Toluene-d8 (79-120%)<br>Surr: 4-Bromofluorobenzene (75-133%)<br>Extractable Petroleum Hydrocarbons<br>Diesel   | 113 %<br>89 %<br>103                | QSG        | ug/L         | 35.8          | 94.3              | 1<br>1<br>1        | 11/05/06 02:24<br>11/05/06 02:24<br>11/05/06 02:24<br>11/04/06 07:40                   | SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>NWTPH-Dx             | 6106133<br>6106133<br>6106133<br>6106133<br>6105648                       |  |  |  |  |  |  |
| Surr: Toluene-d8 (79-120%)<br>Surr: 4-Bromofluorobenzene (75-133%)<br>Extractable Petroleum Hydrocarbons<br>Diesel<br>Motor Oil  | 113 %<br>89 %<br>103<br>564         | QSG<br>QSG | ug/L<br>ug/L | 35.8<br>35.8  | 94.3<br>94.3      | 1<br>1<br>1        | 11/05/06 02:24<br>11/05/06 02:24<br>11/05/06 02:24                                     | SW846 8260B<br>SW846 8260B<br>SW846 8260B                         | 6106133<br>6106133<br>6106133<br>6106133<br>6106133<br>6105648<br>6105648 |  |  |  |  |  |  |
| Surr: Toluene-d8 (79-120%)<br>Surr: 4-Bromofluorobenzene (75-133%)<br>Extractable Petroleum Hydrocarbons<br>Diesel<br>Motor Oil<br>Surr: o-Terphenyl (51-142%)                                     | 113 %<br>89 %<br>103                |            | -            |               |                   | 1<br>1<br>1<br>1   | 11/05/06 02:24<br>11/05/06 02:24<br>11/05/06 02:24<br>11/04/06 07:40                   | SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>NWTPH-Dx             | 6106133<br>6106133<br>6106133<br>6106133<br>6105648                       |  |  |  |  |  |  |
| Surr: Toluene-d8 (79-120%)<br>Surr: 4-Bromofluorobenzene (75-133%)<br>Extractable Petroleum Hydrocarbons<br>Diesel<br>Motor Oil<br>Surr: o-Terphenyl (51-142%)<br>Purgeable Petroleum Hydrocarbons | 113 %<br>89 %<br>103<br>564<br>59 % |            | -            |               |                   | 1<br>1<br>1<br>1   | 11/05/06 02:24<br>11/05/06 02:24<br>11/05/06 02:24<br>11/04/06 07:40<br>11/04/06 07:40 | SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>NWTPH-Dx<br>NWTPH-Dx | 6106133<br>6106133<br>6106133<br>6106133<br>6106133<br>6105648<br>6105648 |  |  |  |  |  |  |
| Surr: Toluene-d8 (79-120%)<br>Surr: 4-Bromofluorobenzene (75-133%)<br>Extractable Petroleum Hydrocarbons<br>Diesel<br>Motor Oil<br>Surr: o-Terphenyl (51-142%)                                     | 113 %<br>89 %<br>103<br>564         |            | -            |               |                   | 1<br>1<br>1<br>1   | 11/05/06 02:24<br>11/05/06 02:24<br>11/05/06 02:24<br>11/04/06 07:40<br>11/04/06 07:40 | SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>NWTPH-Dx<br>NWTPH-Dx | 6106133<br>6106133<br>6106133<br>6106133<br>6106133<br>6105648<br>6105648 |  |  |  |  |  |  |

## Test/America

2960 Foster Creighton Road Nashville, TN 37204 \* 800-765-0980 \* Fax 615-726-3404

| ANALY | TICAL | TESTING | CORPORATION |
|-------|-------|---------|-------------|
|       |       |         |             |

 Client
 Acton Mickelson Environmental, Inc. (13785)
 Work Order:
 NPJ3797

 5175 Hillsdale Circle, Suite 100
 Project Name:
 (06) Former Renton Terminal #46-080

 El Dorado Hills, CA 95762
 Project Number:
 13042.01

 Attm
 Jennifer Guthmiller
 Received:
 10/27/06 08:00

|  | annyan ku lanaliyi maye amangir Ghalandi indolal | arranta 2006 a fallan arranda arrang |              | TICAL REPO    |              | Dilution | Analysis                         | na door gay a su an coduce and a su | alah 1273, masimanan distanggan sar |
|--|--|--------------------------------------|--------------|---------------|--------------|----------|----------------------------------|---|-------------------------------------|
| Analyte                                  | Result   | Flag                                 | Units        | MDL           | MRL          | Factor   | Date/Time                        | Method  | Batch                               |
| Sample ID: NPJ3797-18 (HA-6-10           | 2406 - Grou                                      | nd Water                             | ) Sampled    | : 10/24/06 1  | 3:15         |          |                                  |   |                                     |
| Selected Volatile Organic Compounds      | by EPA Meth                                      | od 8260B                             |              |               |              |          |                                  |   |                                     |
| Benzene                                  | 422  |                                      | ug/L         | 3.10          | 10.0         | 10       | 11/05/06 21:30                   | SW846 8260B   | 6106133                             |
| Ethylbenzene                             | 948  |                                      | ug/L         | 2.30          | 10.0         | 10       | 11/05/06 21:30                   | SW846 8260B   | 6106133                             |
| Methyl tert-Butyl Ether                  | ND   |                                      | ug/L         | 0.310         | 1.00         | 1        | 11/05/06 21:02                   | SW846 8260B   | 6106133                             |
| Toluene                                  | 172  |                                      | ug/L         | 0.220         | 1.00         | 1        | 11/05/06 21:02                   | SW846 8260B   | 6106133                             |
| Xylenes, total                           | 2570   |                                      | ug/L         | 4.40          | 30.0         | 10       | 11/05/06 21:30                   | SW846 8260B   | 6106133                             |
| Ethanol                                  | ND   |                                      | ug/L         | 62.0          | 100          | 1        | 11/05/06 21:02                   | SW846 8260B   | 6106133                             |
| Surr: 1,2-Dichloroethane-d4 (62-142%)    | 102 %  |                                      |              |               |              | 1        | 11/05/06 21:02                   | SW846 8260B   | 6106133                             |
| Surr: Dibromofluoromethane (78-123%)     | 96 %   |                                      |              |               |              | 1        | 11/05/06 21:02                   | SW846 8260B   | 6106133                             |
| Surr: Toluene-d8 (79-120%)               | 83 %   |                                      |              |               |              |          |                                  | SW846 8260B   | 6106133                             |
| Surr: 4-Bromofluorobenzene (75-133%)     | 98 %   |                                      |              |               |              | 1        | 11/05/06 21:02                   |   | 6106133                             |
|  | 90 70  |                                      |              |               |              | 1        | 11/05/06 21:02                   | SW846 8260B   | 0100133                             |
| Extractable Petroleum Hydrocarbons       | A ( 70   | 000                                  |              |               |              |          |                                  | _   |                                     |
| Diesel<br>Motor Oil                      | 2670   | QSG                                  | ug/L         | 71.4          | 188          | 2        | 11/04/06 15:03                   | NWTPH-Dx  | 6105648                             |
| Motor Oil<br>Surr: o-Terphenyl (51-142%) | ND   | QSG<br>Z                             | ug/L         | 71.4          | 188          | 2        | 11/04/06 15:03                   | NWTPH-Dx  | 6105648                             |
|  | 32 %   | L                                    |              |               |              | 2        | 11/04/06 15:03                   | NWTPH-Dx  | 6105648                             |
| geable Petroleum Hydrocarbons            |  |                                      |              |               |              |          |                                  |   |                                     |
| GRO (C4-C12)                             | 19000  |                                      | ug/L         | 20.0          | 1000         | 10       | 11/04/06 14:18                   | NWTPH-Gx  | 6110934                             |
| Surr: a,a,a-Trifluorotoluene (63-134%)   | 110 %  |                                      |              |               |              | 10       | 11/04/06 14:18                   | NWTPH-Gx  | 6110934                             |
| Sample ID: NPJ3797-19 (DUPE-2-           | 102406 - Gr                                      | ound Wat                             | ter) Samp    | led: 10/24/06 | 5 00:01      |          |                                  |   |                                     |
| Selected Volatile Organic Compounds      | by EPA Meth                                      | od 8260B                             |              |               |              |          |                                  |   |                                     |
| Benzene                                  | 877  |                                      | ug/L         | 3.10          | 10.0         | 10       | 11/05/06 22:26                   | SW846 8260B   | 6106133                             |
| Bthylbenzene                             | 301  |                                      | ug/L         | 2.30          | 10.0         | 10       | 11/05/06 22:26                   | SW846 8260B   | 6106133                             |
| Methyl tert-Butyl Ether                  | ND   |                                      | ug/L         | 0.310         | 1.00         | 1        | 11/05/06 21:58                   | SW846 8260B   | 6106133                             |
| Toluene                                  | 18.3   |                                      | ug/L         | 0.220         | 1.00         | 1        | 11/05/06 21:58                   | SW846 8260B   | 6106133                             |
| ζylenes, total                           | 535  |                                      | ug/L         | 0.440         | 3.00         | 1        | 11/05/06 21:58                   | SW846 8260B   | 6106133                             |
| Ethanol                                  | ND   |                                      | ug/L         | 62.0          | 100          | 1        | 11/05/06 21:58                   | SW846 8260B   | 6106133                             |
| Surr: 1,2-Dichloroethane-d4 (62-142%)    | 93 %   |                                      |              |               |              | 1        | 11/05/06 21:58                   | SW846 8260B   | 6106133                             |
| 'urr: Dibromofluoromethane (78-123%)     | 94 %   |                                      |              |               |              | 1        | 11/05/06 21:58                   | SW846 8260B   | 6106133                             |
| 'urr: Toluene-d8 (79-120%)               | 87 %   |                                      |              |               |              | _        | 11/05/06 21:58                   | SW846 8260B   | 6106133                             |
| Surr: 4-Bromofluorobenzene (75-133%)     | 99%  |                                      |              |               |              | 1<br>1   | 11/05/06 21:58<br>11/05/06 21:58 | SW840 8200B<br>SW846 8260B  | 6106133                             |
| Extractable Petroleum Hydrocarbons       |  |                                      |              |               |              | 1        | 11,00,00 21.00                   |   |                                     |
| Diesel                                   | 2050   | QSG                                  | ug/L         | 36.9          | 97.1         | 1        | 11/04/06 08:20                   | NWTPH-Dx  | 6105648                             |
| Motor Oil                                | ND   | QSG<br>QSG                           | ug/L<br>ug/L | 36.9          | 97.1<br>97.1 | 1        | 11/04/06 08:20                   | NWTPH-Dx<br>NWTPH-Dx  | 6105648<br>6105648                  |
| urr: o-Terphenyl (51-142%)               | 58 %   | 200                                  | ug/L         | 50.7          | <i>J</i> 1.1 |          | 11/04/06 08:20                   | NWTPH-Dx<br>NWTPH-Dx  | 6105648                             |
| Purgeable Petroleum Hydrocarbons         |  |                                      |              |               |              | 1        | 11/04/00 00:20                   | 1477 11 11-DX   | 0100070                             |
| GRO (C4-C12)                             | 0500   |                                      | ~            | 20.0          | 1000         | 10       |                                  | NUMPER O  | (10/202                             |
| urr: a,a,a-Trifluorotoluene (63-134%)    | 9520   |                                      | ug/L         | 20.0          | 1000         | 10       | 10/31/06 16:30                   | NWTPH-Gx  | 6106208                             |
| arr. u,u,u-11 gruor otoruene (05-15470)  | 115 %  |                                      |              |               |              | 10       | 10/31/06 16:30                   | NWTPH-Gx  | 6106208                             |

ple ID: NPJ3797-20 (B-1-102406 - Ground Water) Sampled: 10/24/06 14:15

succeed Volatile Organic Compounds by EPA Method 8260B

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## **Iest America**

ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Road Nashville, TN 37204 \* 800-765-0980 \* Fax 615-726-3404

| Client | Acton Mickelson Environmental, Inc. (13785)<br>5175 Hillsdale Circle, Suite 100<br>El Dorado Hills, CA 95762<br>Jennifer Guthmiller | Work Order: .<br>Project Name:<br>Project Number:<br>Received: | NPJ3797<br>(06) Former Renton Terminal #46-080<br>13042.01<br>10/27/06 08:00 |  |
|--------|---|--|--|--|
|        |   | ANALYTICAL REPORT  |  |  |

| Analyte                                | Result      | Flag   | Units               | MDL         | MRL       | Dilution<br>Factor | Analysis<br>Date/Time | Method                     | Batch   |
|--|-------------|--------|---------------------|-------------|-----------|--------------------|-----------------------|----------------------------|---------|
| Sample ID: NPJ3797-20 (B-1-1024        | 06 - Ground | Water) | - cont. Sam         | pled: 10/24 | /06 14:15 |                    |                       |                            |         |
| Selected Volatile Organic Compounds    |             |        |                     | -           |           |                    |                       |                            |         |
| Benzene                                | 363         |        | ug/L                | 3.10        | 10.0      | 10                 | 11/05/06 23:22        | SW846 8260B                | 6106133 |
| Ethylbenzene                           | 113         |        | ug/L                | 0.230       | 1.00      | 1                  | 11/05/06 22:54        | SW846 8260B                | 6106133 |
| Methyl tert-Butyl Ether                | ND          |        | ug/L                | 0.310       | 1.00      | 1                  | 11/05/06 22:54        | SW846 8260B                | 6106133 |
| Toluene                                | 6.65        |        | ug/L                | 0.220       | 1.00      | 1                  | 11/05/06 22:54        | SW846 8260B                | 6106133 |
| Xylenes, total                         | 26.8        |        | ug/L                | 0.440       | 3.00      | 1                  | 11/05/06 22:54        | SW846 8260B                | 6106133 |
| Ethanol                                | ND          |        | ug/L                | 62.0        | 100       | 1                  | 11/05/06 22:54        | SW846 8260B                | 6106133 |
| Surr: 1,2-Dichloroethane-d4 (62-142%)  | 90 %        |        |                     |             |           | 1                  | 11/05/06 22:54        | SW846 8260B                | 6106133 |
| Surr: Dibromofluoromethane (78-123%)   | 94 %        |        |                     |             |           | 1                  | 11/05/06 22:54        | SW846 8260B                | 6106133 |
| Surr: Toluene-d8 (79-120%)             | 95 %        |        |                     |             |           | 1                  | 11/05/06 22:54        | SW846 8260B                | 6106133 |
| Surr: 4-Bromofluorobenzene (75-133%)   | 106 %       |        |                     |             |           | 1                  | 11/05/06 22:54        | SW846 8260B<br>SW846 8260B | 6106133 |
| Extractable Petroleum Hydrocarbons     |             |        |                     |             |           |                    |                       |                            |         |
| Diesel                                 | 884         | QSG    | ug/L                | 35.8        | 94.3      | 1                  | 11/04/06 08:40        | NWTPH-Dx                   | 6105648 |
| Motor Oil                              | 800         | QSG    | ug/L                | 35.8        | 94.3      | 1                  | 11/04/06 08:40        | NWTPH-Dx                   | 6105648 |
| Surr: o-Terphenyl (51-142%)            | 54 %        |        | C C                 |             |           | 1                  | 11/04/06 08:40        | NWTPH-Dx                   | 6105648 |
| geable Petroleum Hydrocarbons          |             |        |                     |             |           |                    |                       |                            |         |
| GRO (C4-C12)                           | 3770        |        | ug/L                | 2.00        | 100       | 1                  | 11/03/06 21:43        | NWTPH-Gx                   | 6110644 |
| Surr: a,a,a-Trifluorotoluene (63-134%) | 107 %       |        | ~~ v <del>9</del> ~ |             |           | 1                  | 11/03/06 21:43        | NWTPH-Gx                   | 6110644 |

## 1est/America

ANALYTICAL TESTING CORPORATION

Client Acton Mickelson Environmental, Inc. (13785) 5175 Hillsdale Circle, Suite 100

El Dorado Hills, CA 95762

Attn Jennifer Guthmiller

Work Order: Project Name: Project Number: Received:

NPJ3797 (06) Former Renton Terminal #46-080 : 13042.01 10/27/06 08:00

#### SAMPLE EXTRACTION DATA

| Parameter                          | Batch   | Lab Number    | Wt/Vol<br>Extracted | Extracted Vol | Date           | Analyst | Extraction<br>Method |
|------------------------------------|---------|---------------|---------------------|---------------|----------------|---------|----------------------|
| Extractable Petroleum Hydrocarbons |         |               | -                   |               |                |         |                      |
| NWTPH-Dx                           | 6105647 | NPJ3797-01    | 1040.00             | 1.00          | 10/30/06 15:00 | CEC     | EPA 3510C            |
| NWTPH-Dx                           | 6105647 | NPJ3797-02    | 1030.00             | 1.00          | 10/30/06 15:00 | CEC     | EPA 3510C            |
| NWTPH-Dx                           | 6105647 | NPJ3797-02RE1 | 1030.00             | 1.00          | 10/30/06 15:00 | CEC     | EPA 3510C            |
| NWTPH-Dx                           | 6105647 | NPJ3797-03    | 1050.00             | 1.00          | 10/30/06 15:00 | CEC     | EPA 3510C            |
| NWTPH-Dx                           | 6105647 | NPJ3797-03RE1 | 1050.00             | 1.00          | 10/30/06 15:00 | CEC     | EPA 3510C            |
| NWTPH-Dx                           | 6105647 | NPJ3797-04    | 1050.00             | 1.00          | 10/30/06 15:00 | CEC     | EPA 3510C            |
| NWIPH-Dx                           | 6105647 | NPJ3797-04RE1 | 1050.00             | 1.00          | 10/30/06 15:00 | CEC     | EPA 3510C            |
| NWTPH-Dx                           | 6105647 | NPJ3797-05    | 500.00              | 1.00          | 10/30/06 15:00 | CEC     | EPA 3510C            |
| NWTPH-Dx                           | 6105647 | NPJ3797-07    | 700.00              | 1.00          | 10/30/06 15:00 | CEC     | EPA 3510C            |
| NWTPH-Dx                           | 6105647 | NPJ3797-10    | 500.00              | 1.00          | 10/30/06 15:00 | CEC     | EPA 3510C            |
| NWTPH-Dx                           | 6105647 | NPJ3797-11    | 1050.00             | 1.00          | 10/30/06 15:00 | CEC     | EPA 3510C            |
| NWTPH-Dx                           | 6105647 | NPJ3797-12    | 1050.00             | 1.00          | 10/30/06 15:00 | CEC     | EPA 3510C            |
| NWTPH-Dx                           | 6105647 | NPJ3797-12RE1 | 1050.00             | 1.00          | 10/30/06 15:00 | CEC     | EPA 3510C            |
| NWTPH-Dx                           | 6105647 | NPJ3797-14    | 980.00              | 1.00          | 10/30/06 15:00 | CEC     | EPA 3510C            |
| NWTPH-Dx                           | 6105648 | NPJ3797-15    | 1060.00             | 1.00          | 10/31/06 09:25 | KLG     | EPA 3510C            |
| NWTPH-Dx                           | 6105648 | NPJ3797-16    | 1050.00             | 1.00          | 10/31/06 09:25 | KLG     | EPA 3510C            |
| NWTPH-Dx                           | 6105648 | NPJ3797-17    | 1060.00             | 1.00          | 10/31/06 09:25 | KLG     | EPA 3510C            |
| NWTPH-Dx                           | 6105648 | NPJ3797-18    | 1065.00             | 1.00          | 10/31/06 09:25 | KLG     | EPA 3510C            |
| NWTPH-Dx                           | 6105648 | NPJ3797-18RE1 | 1065.00             | 1.00          | 10/31/06 09:25 | KLG     | EPA 3510C            |
| NWTPH-Dx                           | 6105648 | NPJ3797-19    | 1030.00             | 1.00          | 10/31/06 09:25 | KLG     | EPA 3510C            |
| NWTPH-Dx                           | 6105648 | NPJ3797-20    | 1060.00             | 1.00          | 10/31/06 09:25 | KLG     | EPA 3510C            |

#### 1esua ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Road Nashville, TN 37204 \* 800-765-0980 \* Fax 615-726-3404

Acton Mickelson Environmental, Inc. (13785) Client 5175 Hillsdale Circle, Suite 100 El Dorado Hills, CA 95762

Jennifer Guthmiller Attn

NPJ3797 Work Order: Project Name: 13042.01 Project Number: Received:

(06) Former Renton Terminal #46-080 10/27/06 08:00

#### PROJECT QUALITY CONTROL DATA

Blank

| Analyte                                     | Blank Value        | Q       | Units | Q.C. Batch | Lab Number   | Analyzed Date/Time |  |
|---|--------------------|---------|-------|------------|--------------|--------------------|--|
| Selected Volatile Organic Compo             | ounds by EPA Metho | d 8260B |       |            |              |                    |  |
| 6106133-BLK1                                |                    |         |       |            |              |                    |  |
| Benzene                                     | < 0.310            |         | ug/L  | 6106133    | 6106133-BLK1 | 11/04/06 14:14     |  |
| Ethylbenzene                                | <0.230             |         | ug/L  | 6106133    | 6106133-BLK1 | 11/04/06 14:14     |  |
| Methyl tert-Butyl Ether                     | < 0.310            |         | ug/L  | 6106133    | 6106133-BLK1 | 11/04/06 14:14     |  |
| Toluene                                     | <0.220             |         | ug/L  | 6106133    | 6106133-BLK1 | 11/04/06 14:14     |  |
| Xylenes, total                              | <0.440             |         | ug/L  | 6106133    | 6106133-BLK1 | 11/04/06 14:14     |  |
| Ethanol                                     | <62.0              |         | ug/L  | 6106133    | 6106133-BLK1 | 11/04/06 14:14     |  |
| Surrogate: 1,2-Dichloroethane-d4            | 96%                |         |       | 6106133    | 6106133-BLK1 | 11/04/06 14:14     |  |
| Surrogate: 1,2-Dichloroethane-d4            | 96%                |         |       | 6106133    | 6106133-BLK1 | 11/04/06 14:14     |  |
| Surrogate: Dibromofluoromethane             | 105%               |         |       | 6106133    | 6106133-BLK1 | 11/04/06 14:14     |  |
| Surrogate: Dibromofluoromethane             | 105%               |         |       | 6106133    | 6106133-BLK1 | 11/04/06 14:14     |  |
| Surrogate: Toluene-d8                       | 110%               |         |       | 6106133    | 6106133-BLK1 | 11/04/06 14:14     |  |
| Surrogate: Toluene-d8                       | 110%               |         |       | 6106133    | 6106133-BLK1 | 11/04/06 14:14     |  |
| Surrogate: 4-Bromofluorobenzene             | 83%                |         |       | 6106133    | 6106133-BLK1 | 11/04/06 14:14     |  |
| Surrogate: 4-Bromofluorobenzene             | 83%                |         |       | 6106133    | 6106133-BLK1 | 11/04/06 14:14     |  |
| o106133-BLK2                                |                    |         |       |            |              |                    |  |
| Benzene                                     | < 0.310            |         | ug/L  | 6106133    | 6106133-BLK2 | 11/05/06 01:28     |  |
| Ethylbenzene                                | <0.230             |         | ug/L  | 6106133    | 6106133-BLK2 | 11/05/06 01:28     |  |
| Methyl tert-Butyl Ether                     | < 0.310            |         | ug/L  | 6106133    | 6106133-BLK2 | 11/05/06 01:28     |  |
| Toluene                                     | <0.220             |         | ug/L  | 6106133    | 6106133-BLK2 | 11/05/06 01:28     |  |
| Xylenes, total                              | <0.440             |         | ug/L  | 6106133    | 6106133-BLK2 | 11/05/06 01:28     |  |
| Ethanol                                     | <62.0              |         | ug/L  | 6106133    | 6106133-BLK2 | 11/05/06 01:28     |  |
| Surrogate: 1,2-Dichloroethane-d4            | 96%                |         | C     | 6106133    | 6106133-BLK2 | 11/05/06 01:28     |  |
| Surrogate: 1,2-Dichloroethane-d4            | 96%                |         |       | 6106133    | 6106133-BLK2 | 11/05/06 01:28     |  |
| urrogate: Dibromofluoromethane              | 105%               |         |       | 6106133    | 6106133-BLK2 | 11/05/06 01:28     |  |
| urrogate: Dibromofluoromethane              | 105%               |         |       | 6106133    | 6106133-BLK2 | 11/05/06 01:28     |  |
| Surrogate: Toluene-d8                       | 124%               | Z10     |       | 6106133    | 6106133-BLK2 | 11/05/06 01:28     |  |
| Turrogate: Toluene-d8                       | 124%               | Z10     |       | 6106133    | 6106133-BLK2 | 11/05/06 01:28     |  |
| <sup>3</sup> urrogate: 4-Bromofluorobenzene | 86%                |         |       | 6106133    | 6106133-BLK2 | 11/05/06 01:28     |  |
| Surrogate: 4-Bromofluorobenzene             | 86%                |         |       | 6106133    | 6106133-BLK2 | 11/05/06 01:28     |  |
| 3106133-BLK3                                |                    |         |       |            |              |                    |  |
| Benzene                                     | < 0.310            |         | ug/L  | 6106133    | 6106133-BLK3 | 11/05/06 20:05     |  |
| Ethylbenzene                                | < 0.230            |         | ug/L  | 6106133    | 6106133-BLK3 | 11/05/06 20:05     |  |
| Methyl tert-Butyl Ether                     | < 0.310            |         | ug/L  | 6106133    | 6106133-BLK3 | 11/05/06 20:05     |  |
| Foluene                                     | < 0.220            |         | ug/L  | 6106133    | 6106133-BLK3 | 11/05/06 20:05     |  |
| Xylenes, total                              | < 0.440            |         | ug/L  | 6106133    | 6106133-BLK3 | 11/05/06 20:05     |  |
| Ethanol                                     | <62.0              |         | ug/L  | 6106133    | 6106133-BLK3 | 11/05/06 20:05     |  |
| 'urrogate: 1,2-Dichloroethane-d4            | 75%                |         | č     | 6106133    | 6106133-BLK3 | 11/05/06 20:05     |  |
| urrogate: 1,2-Dichloroethane-d4             | 75%                |         |       | 6106133    | 6106133-BLK3 | 11/05/06 20:05     |  |
| zate: Dibromofluoromethane                  | 71%                | Z10     |       | 6106133    | 6106133-BLK3 | 11/05/06 20:05     |  |
| wrogate: Dibromofluoromethane               | 71%                | Z10     |       | 6106133    | 6106133-BLK3 | 11/05/06 20:05     |  |

## ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Road Nashville, TN 37204 \* 800-765-0980 \* Fax 615-726-3404

Acton Mickelson Environmental, Inc. (13785)
 5175 Hillsdale Circle, Suite 100

El Dorado Hills, CA 95762

a Jennifer Guthmiller

Work Order: Project Name: Project Number: Received: NPJ3797 (06) Former Renton Terminal #46-080 13042.01 10/27/06 08:00

#### PROJECT QUALITY CONTROL DATA

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|                                |                  |   |       |            |              | ningen of a sector sector sector of a construction of the sector of the sector of the sector of the sector s |  |
|--------------------------------|------------------|---|-------|------------|--------------|---|--|
| n'te                           | Blank Value      | Q | Units | Q.C. Batch | Lab Number   | Analyzed Date/Time  |  |
| tile Organic Compounds by      | EPA Method 8260B |   |       |            |              |   |  |
| 106133-BLK3                    |                  | ŕ |       |            |              |   |  |
| gate: Toluene-d8               | 92%              |   |       | 6106133    | 6106133-BLK3 | 11/05/06 20:05  |  |
| a gate: Toluene-d8             | 92%              |   |       | 6106133    | 6106133-BLK3 | 11/05/06 20:05  |  |
| irrogate: 4-Bromofluorobenzene | 100%             |   |       | 6106133    | 6106133-BLK3 | 11/05/06 20:05  |  |
| vrrogate: 4-Bromofluorobenzene | 100%             |   |       | 6106133    | 6106133-BLK3 | 11/05/06 20:05  |  |
| 1vð133-BLK4                    |                  |   |       |            |              |   |  |
| lenzene                        | < 0.310          |   | ug/L  | 6106133    | 6106133-BLK4 | 11/07/06 18:40  |  |
| benzene                        | < 0.230          |   | ug/L  | 6106133    | 6106133-BLK4 | 11/07/06 18:40  |  |
| 4 yl tert-Butyl Ether          | < 0.310          |   | ug/L  | 6106133    | 6106133-BLK4 | 11/07/06 18:40  |  |
| 'oluene                        | <0.220           |   | ug/L  | 6106133    | 6106133-BLK4 | 11/07/06 18:40  |  |
| Stranes, total                 | < 0.440          |   | ug/L  | 6106133    | 6106133-BLK4 | 11/07/06 18:40  |  |
| 4 IOI                          | <62.0            |   | ug/L  | 6106133    | 6106133-BLK4 | 11/07/06 18:40  |  |
| rrogate: 1,2-Dichloroethane-d4 | 102%             |   |       | 6106133    | 6106133-BLK4 | 11/07/06 18:40  |  |
| rrogate: 1,2-Dichloroethane-d4 | 102%             |   |       | 6106133    | 6106133-BLK4 | 11/07/06 18:40  |  |
| • Dibromofluoromethane         | 98%              |   |       | 6106133    | 6106133-BLK4 | 11/07/06 18:40  |  |
| : Dibromofluoromethane         | 98%              |   |       | 6106133    | 6106133-BLK4 | 11/07/06 18:40  |  |
| rrogate: Toluene-d8            | 96%              |   |       | 6106133    | 6106133-BLK4 | 11/07/06 18:40  |  |
| 1 zate: Toluene-d8             | 96%              |   |       | 6106133    | 6106133-BLK4 | 11/07/06 18:40  |  |
| ) zate: 4-Bromofluorobenzene   | 107%             |   |       | 6106133    | 6106133-BLK4 | 11/07/06 18:40  |  |
| rrogate: 4-Bromofluorobenzene  | 107%             |   |       | 6106133    | 6106133-BLK4 | 11/07/06 18:40  |  |
| actable Petroleum Hydrocart    | oons             |   |       |            |              |   |  |
| 05647-BLK1                     |                  |   |       |            |              |   |  |
| iesel                          | <37.0            |   | ug/L  | 6105647    | 6105647-BLK1 | 11/05/06 01:10  |  |
| r Oil                          | <37.0            |   | ug/L  | 6105647    | 6105647-BLK1 | 11/05/06 01:10  |  |
| ate: o-Terphenyl               | 107%             |   |       | 6105647    | 6105647-BLK1 | 11/05/06 01:10  |  |
| ^ <b>5648-BLK1</b>             |                  |   |       |            |              |   |  |
| 1                              | <38.0            |   | ug/L  | 6105648    | 6105648-BLK1 | 11/04/06 06:19  |  |
| Gur Oil                        | <38.0            |   | ug/L  | 6105648    | 6105648-BLK1 | 11/04/06 06:19  |  |
| rogate: o-Terphenyl            | 84%              |   |       | 6105648    | 6105648-BLK1 | 11/04/06 06:19  |  |
| _eable Petroleum Hydrocarbo    | ns               |   |       |            |              |   |  |
| 05679-BLK1                     |                  |   |       |            |              |   |  |
| `^ (C4-C12)                    | 5.82             | J | ug/L  | 6105679    | 6105679-BLK1 | 10/28/06 13:36  |  |
| ate: a,a,a-Trifluorotoluene    | 81%              |   |       | 6105679    | 6105679-BLK1 | 10/28/06 13:36  |  |
| 05679-BLK2                     |                  |   |       |            |              |   |  |
| (C4-C12)                       | 12.5             | J | ug/L  | 6105679    | 6105679-BLK2 | 10/28/06 14:04  |  |
| ;ate: a,a,a-Trifluorotoluene   | 105%             |   |       | 6105679    | 6105679-BLK2 | 10/28/06 14:04  |  |

^\_\_\_\_BLK1

## resumerica

ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Road Nashville, TN 37204 \* 800-765-0980 \* Fax 615-726-3404

Client Acton Mickelson Environmental, Inc. (13785) 5175 Hillsdale Circle, Suite 100 El Dorado Hills, CA 95762

Attn Jennifer Guthmiller

Work Order: Project Name: Project Number: Received:

NPJ3797 (06) Former Renton Terminal #46-080 : 13042.01 10/27/06 08:00

#### PROJECT QUALITY CONTROL DATA

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| Analyte                           | Blank Value | Q | Units | Q.C. Batch | Lab Number   | Analyzed Date/Time                      |
|-----------------------------------|-------------|---|-------|------------|--------------|---|
| Purgeable Petroleum Hydrocarb     | ons         |   |       |            |              | • |
| 6105788-BLK1                      |             |   |       |            |              |   |
| GRO (C4-C12)                      | 7.95        | J | ug/L  | 6105788    | 6105788-BLK1 | 10/29/06 23:54                          |
| Surrogate: a,a,a-Trifluorotoluene | 87%         |   |       | 6105788    | 6105788-BLK1 | 10/29/06 23:54                          |
| 6105788-BLK2                      |             |   |       |            |              |   |
| GRO (C4-C12)                      | 7.06        | J | ug/L  | 6105788    | 6105788-BLK2 | 10/30/06 00:09                          |
| Surrogate: a,a,a-Trifluorotoluene | 108%        |   |       | 6105788    | 6105788-BLK2 | 10/30/06 00:09                          |
| 3106208-BLK1                      |             |   |       |            |              |   |
| GRO (C4-C12)                      | 8.76        | J | ug/L  | 6106208    | 6106208-BLK1 | 10/31/06 13:05                          |
| Surrogate: a,a,a-Trifluorotoluene | 92%         |   |       | 6106208    | 6106208-BLK1 | 10/31/06 13:05                          |
| \$106208-BLK2                     |             |   |       |            |              |   |
| GRO (C4-C12)                      | 5.62        | J | ug/L  | 6106208    | 6106208-BLK2 | 10/31/06 13:35                          |
| Surrogate: a,a,a-Trifluorotoluene | 111%        |   |       | 6106208    | 6106208-BLK2 | 10/31/06 13:35                          |
| 10644-BLK1                        |             |   |       |            |              |   |
| GRO (C4-C12)                      | 8.25        | J | ug/L  | 6110644    | 6110644-BLK1 | 11/03/06 16:25                          |
| Surrogate: a,a,a-Trifluorotoluene | 108%        |   |       | 6110644    | 6110644-BLK1 | 11/03/06 16:25                          |
| 3110934-BLK1                      |             |   |       |            |              |   |
| GRO (C4-C12)                      | 11.4        | J | ug/L  | 6110934    | 6110934-BLK1 | 11/04/06 11:39                          |
| Surrogate: a,a,a-Trifluorotoluene | 114%        |   |       | 6110934    | 6110934-BLK1 | 11/04/06 11:39                          |
|                                   |             |   |       |            |              |   |

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## TestAmerica

2960 Foster Creighton Road Nashville, TN 37204 \* 800-765-0980 \* Fax 615-726-3404

ANALYTICAL TESTING CORPORATION

Client Acton Mickelson Environmental, Inc. (13785) 5175 Hillsdale Circle, Suite 100 El Dorado Hills, CA 95762 Attn Jennifer Guthmiller Work Order:NPProject Name:(06Project Number:130Received:10/

PROJECT QUALITY CONTROL DATA LCS

NPJ3797 (06) Former Renton Terminal #46-080 13042.01 10/27/06 08:00

| Analyte                          | Known Val.           | Analyzed Val | Q       | Units | % Rec. | Target<br>Range | Batch   |
|----------------------------------|----------------------|--------------|---------|-------|--------|-----------------|---------|
| Selected Volatile Organic Compou | nds by EPA Method 82 | 60B          |         |       |        |                 |         |
| 6106133-BS1                      |                      |              |         |       |        |                 |         |
| Benzene                          | 50.0                 | 48.1         | MNR1    | ug/L  | 96%    | 80 - 118        | 6106133 |
| Ethylbenzene                     | 50.0                 | 54.2         | MNR1    | ug/L  | 108%   | 73 - 134        | 6106133 |
| Methyl tert-Butyl Ether          | 50.0                 | 40.8         | MNR1    | ug/L  | 82%    | 69 - 122        | 6106133 |
| Toluene                          | 50.0                 | 55.1         | MNR1    | ug/L  | 110%   | 78 - 122        | 6106133 |
| Xylenes, total                   | 150                  | 165          | MNR1    | ug/L  | 110%   | 82 - 127        | 6106133 |
| Ethanol                          | 5000                 | 6370         | MNR1    | ug/L  | 127%   | 41 - 166        | 6106133 |
| Surrogate: 1,2-Dichloroethane-d4 | 50.0                 | 45.9         |         |       | 92%    | 62 - 142        | 6106133 |
| Surrogate: 1,2-Dichloroethane-d4 | 50.0                 | 45.9         |         |       | 92%    | 62 - 142        | 6106133 |
| Surrogate: Dibromofluoromethane  | 50.0                 | 53.2         |         |       | 106%   | 78 - 123        | 6106133 |
| Surrogate: Dibromofluoromethane  | 50.0                 | 53.2         |         |       | 106%   | 78 - 123        | 6106133 |
| Surrogate: Toluene-d8            | 50.0                 | 53.2         |         |       | 106%   | 79 - 120        | 6106133 |
| Surrogate: Toluene-d8            | 50.0                 | 53.2         |         |       | 106%   | 79 - 120        | 6106133 |
| Surrogate: 4-Bromofluorobenzene  | 50.0                 | 39.5         |         |       | 79%    | 75 - 133        | 6106133 |
| Surrogate: 4-Bromofluorobenzene  | 50.0                 | 39.5         |         |       | 79%    | 75 - 133        | 6106133 |
| 6106133-BS2                      |                      |              |         |       |        |                 |         |
| Benzene                          | 50.0                 | 45.7         | MNR1    | ug/L  | 91%    | 80 - 118        | 6106133 |
| Ethylbenzene                     | 50.0                 | 48.8         | MNR1    | ug/L  | 98%    | 73 - 134        | 6106133 |
| Methyl tert-Butyl Ether          | 50.0                 | 43.0         | MNR1    | ug/L  | 86%    | 69 - 122        | 6106133 |
| Toluene                          | 50.0                 | 52.0         | MNR1    | ug/L  | 104%   | 78 - 122        | 6106133 |
| Xylenes, total                   | 150                  | 149          | MNR1    | ug/L  | 99%    | 82 - 127        | 6106133 |
| Ethanol                          | 5000                 | 8610         | L, MNR1 | ug/L  | 172%   | 41 - 166        | 6106133 |
| Surrogate: 1,2-Dichloroethane-d4 | 50.0                 | 47.1         |         |       | 94%    | 62 - 142        | 6106133 |
| Surrogate: 1,2-Dichloroethane-d4 | 50.0                 | 47.1         |         |       | 94%    | 62 - 142        | 6106133 |
| Surrogate: Dibromofluoromethane  | 50.0                 | 53.0         |         |       | 106%   | 78 - 123        | 6106133 |
| Surrogate: Dibromofluoromethane  | 50.0                 | 53.0         |         |       | 106%   | 78 - 123        | 6106133 |
| Surrogate: Toluene-d8            | 50.0                 | 53.8         |         |       | 108%   | 79 - 120        | 6106133 |
| Surrogate: Toluene-d8            | 50.0                 | 53.8         |         |       | 108%   | 79 - 120        | 6106133 |
| Surrogate: 4-Bromofluorobenzene  | 50.0                 | 38.6         |         |       | 77%    | 75 - 133        | 6106133 |
| Surrogate: 4-Bromofluorobenzene  | 50.0                 | 38.6         |         |       | 77%    | 75 - 133        | 6106133 |
| 6106133-BS3                      |                      |              |         |       |        |                 |         |
| Benzene                          | 50.0                 | 48.8         | MNR1    | ug/L  | 98%    | 80 - 118        | 6106133 |
| Ethylbenzene                     | 50.0                 | 50.6         | MNR1    | ug/L  | 101%   | 73 - 134        | 6106133 |
| Methyl tert-Butyl Ether          | 50.0                 | 52.5         | MNR1    | ug/L  | 105%   | 69 - 122        | 6106133 |
| Toluene                          | 50.0                 | 53.3         | MNR1    | ug/L  | 107%   | 78 - 122        | 6106133 |
| Xylenes, total                   | 150                  | 149          | MNR1    | ug/L  | 99%    | 82 - 127        | 6106133 |
| Ethanol                          | 5000                 | 4460         | MNR1    | ug/L  | 89%    | 41 - 166        | 6106133 |
| Surrogate: 1,2-Dichloroethane-d4 | 50.0                 | 50.5         |         |       | 101%   | 62 - 142        | 6106133 |
| Surrogate: 1,2-Dichloroethane-d4 | 50.0                 | 50.5         |         |       | 101%   | 62 - 142        | 6106133 |
| Surrogate: Dibromofluoromethane  | 50.0                 | 50.8         |         |       | 102%   | 78 - 123        | 6106133 |
|                                  |                      | 50.0         |         |       | 1000/  | 70 102          | 6106133 |

50.8

50.0

Surrogate: Dibromofluoromethane

102%

78 - 123

6106133

Analyzed Date/Time

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## **Iesumerica**

ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Road Nashville, TN 37204 \* 800-765-0980 \* Fax 615-726-3404

Client Acton Mickelson Environmental, Inc. (13785) 5175 Hillsdale Circle, Suite 100 El Dorado Hills, CA 95762

Attn Jennifer Guthmiller

Work Order: Project Name: Project Number: Received:

NPJ3797 (06) Former Renton Terminal #46-080 13042.01 10/27/06 08:00

#### PROJECT QUALITY CONTROL DATA

LCS - Cont.

| Analyte                           | Known Val.          | Analyzed Val | Q        | Units | % Rec. | Target<br>Range | Batch   | Analyzed<br>Date/Time |
|-----------------------------------|---------------------|--------------|----------|-------|--------|-----------------|---------|-----------------------|
| Selected Volatile Organic Compoun | ds by EPA Method 82 | 60B          |          |       |        |                 |         |                       |
| 6106133-BS3                       | 0                   |              |          |       |        |                 |         |                       |
| Surrogate: Toluene-d8             | 50.0                | 52.2         |          |       | 104%   | 79 - 120        | 6106133 | 11/05/06 19:09        |
| Surrogate: Toluene-d8             | 50.0                | 52.2         |          |       | 104%   | 79 - 120        | 6106133 | 11/05/06 19:09        |
| Surrogate: 4-Bromofluorobenzene   | 50.0                | 48.3         |          |       | 97%    | 75 - 133        | 6106133 | 11/05/06 19:09        |
| Surrogate: 4-Bromofluorobenzene   | 50.0                | 48.3         |          |       | 97%    | 75 - 133        | 6106133 | 11/05/06 19:09        |
| 6106133-BS4                       |                     |              |          |       |        |                 |         |                       |
| Benzene                           | 50.0                | 45.8         | MNR1     | ug/L  | 92%    | 80 - 118        | 6106133 | 11/07/06 17:44        |
| Ethylbenzene                      | 50.0                | 44.5         | MNR1     | ug/L  | 89%    | 73 - 134        | 6106133 | 11/07/06 17:44        |
| Methyl tert-Butyl Ether           | 50.0                | 51.8         | MNR1     | ug/L  | 104%   | 69 - 122        | 6106133 | 11/07/06 17:44        |
| Toluene                           | 50.0                | 47.6         | MNR1     | ug/L  | 95%    | 78 - 122        | 6106133 | 11/07/06 17:44        |
| Xylenes, total                    | 150                 | 134          | MNR1     | ug/L  | 89%    | 82 - 127        | 6106133 | 11/07/06 17:44        |
| Ethanol                           | 5000                | 5630         | MNR1     | ug/L  | 113%   | 41 - 166        | 6106133 | 11/07/06 17:44        |
| Surrogate: 1,2-Dichloroethane-d4  | 50.0                | 48.0         |          |       | 96%    | 62 - 142        | 6106133 | 11/07/06 17:44        |
| Surrogate: 1,2-Dichloroethane-d4  | 50.0                | 48.0         |          |       | 96%    | 62 - 142        | 6106133 | 11/07/06 17:44        |
| ogate: Dibromofluoromethane       | 50.0                | 49.0         |          |       | 98%    | 78 - 123        | 6106133 | 11/07/06 17:44        |
| zarrogate: Dibromofluoromethane   | 50.0                | 49.0         |          |       | 98%    | 78 - 123        | 6106133 | 11/07/06 17:44        |
| Surrogate: Toluene-d8             | 50.0                | 48.0         |          |       | 96%    | 79 - 120        | 6106133 | 11/07/06 17:44        |
| Surrogate: Toluene-d8             | 50.0                | 48.0         |          |       | 96%    | 79 - 120        | 6106133 | 11/07/06 17:44        |
| Surrogate: 4-Bromofluorobenzene   | 50.0                | 44.9         |          |       | 90%    | 75 - 133        | 6106133 | 11/07/06 17:44        |
| Surrogate: 4-Bromofluorobenzene   | 50.0                | 44.9         |          |       | 90%    | 75 - 133        | 6106133 | 11/07/06 17:44        |
| Extractable Petroleum Hydrocarbor | IS                  |              |          |       |        |                 |         |                       |
| 5105647-BS1                       |                     |              |          |       |        |                 |         |                       |
| Diesel                            | 1000                | 538          |          | ug/L  | 54%    | 35 - 122        | 6105647 | 11/06/06 09:33        |
| Surrogate: o-Terphenyl            | 20.0                | 9.16         |          |       | 46%    | 33 - 147        | 6105647 | 11/06/06 09:33        |
| 6105648-BS1                       |                     |              |          |       |        |                 |         |                       |
| Diesel                            | 1000                | 621          |          | ug/L  | 62%    | 56 - 116        | 6105648 | 11/04/06 06:40        |
| Surrogate: o-Terphenyl            | 20.0                | 15.4         |          |       | 77%    | 51 - 142        | 6105648 | 11/04/06 06:40        |
| Purgeable Petroleum Hydrocarbons  |                     |              |          |       |        |                 |         |                       |
| 105679-BS2                        |                     |              |          |       |        |                 |         |                       |
| JRO (C4-C12)                      | 1000                | 715          | A-01, L2 | ug/L  | 72%    | 74 - 121        | 6105679 | 10/29/06 04:12        |
| Surrogate: a,a,a-Trifluorotoluene | 30.0                | 32.4         |          |       | 108%   | 63 - 134        | 6105679 | 10/29/06 04:12        |
| 105788-BS2                        |                     |              |          |       |        |                 |         |                       |
| GRO (C4-C12)                      | 1000                | 709          | A-01, L2 | ug/L  | 71%    | 74 - 121        | 6105788 | 10/30/06 08:54        |
| Surrogate: a,a,a-Trifluorotoluene | 30.0                | 26.8         |          |       | 89%    | 63 - 134        | 6105788 | 10/30/06 08:54        |
| 106208-BS3                        |                     |              |          |       |        |                 |         | т.<br>1 стал          |
| C4-C12)                           | 1000                | 800          |          | ug/L  | 80%    | 74 - 121        | 6106208 | 11/01/06 02:24        |
| ogate: a,a,a-Trifluorotoluene     | 30.0                | 26.5         |          |       | 88%    | 63 - 134        | 6106208 | 11/01/06 02:24        |

## IESU

2960 Foster Creighton Road Nashville, TN 37204 \* 800-765-0980 \* Fax 615-726-3404

ANALYTICAL TESTING CORPORATION

Client Acton Mickelson Environmental, Inc. (13785) 5175 Hillsdale Circle, Suite 100 El Dorado Hills, CA 95762

Attn

Jennifer Guthmiller

Work Order: Project Name: Project Number: Received:

NPJ3797 (06) Former Renton Terminal #46-080 13042.01 10/27/06 08:00

#### PROJECT QUALITY CONTROL DATA

LCS - Cont.

| <br>Analyte                        | Known Val. | Analyzed Val | Q | Units | % Rec. | Target<br>Range | Batch   | Analyzed<br>Date/Time |
|------------------------------------|------------|--------------|---|-------|--------|-----------------|---------|-----------------------|
| Purgeable Petroleum Hydrocarbons   |            |              |   |       |        |                 |         |                       |
| <b>6106208-BS4</b><br>GRO (C4-C12) | 1000       | 891          |   | ug/L  | 89%    | 74 - 121        | 6106208 | 11/01/06 02:39        |
| Surrogate: a,a,a-Trifluorotoluene  | 30.0       | 36.6         |   |       | 122%   | 63 - 134        | 6106208 | 11/01/06 02:39        |
| \$110644-BS1                       |            |              |   |       |        |                 |         |                       |
| GRO (C4-C12)                       | 1000       | 1040         |   | ug/L  | 104%   | 74 - 121        | 6110644 | 11/04/06 02:08        |
| Surrogate: a,a,a-Trifluorotoluene  | 30.0       | 33.5         |   |       | 112%   | 63 - 134        | 6110644 | 11/04/06 02:08        |
| 3110934-BS2                        |            |              |   |       |        |                 |         |                       |
| GRO (C4-C12)                       | 1000       | 950          |   | ug/L  | 95%    | 74 - 121        | 6110934 | 11/04/06 15:21        |
| Surrogate: a,a,a-Trifluorotoluene  | 30.0       | 33.2         |   |       | 111%   | 63 - 134        | 6110934 | 11/04/06 15:21        |

## ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Road Nashville, TN 37204 \* 800-765-0980 \* Fax 615-726-3404

Client Acton Mickelson Environmental, Inc. (13785) 5175 Hillsdale Circle, Suite 100 El Dorado Hills, CA 95762

Jennifer Guthmiller

Attn

NPJ3797 Work Order: Project Name: 13042.01 Project Number: Received:

(06) Former Renton Terminal #46-080 10/27/06 08:00

#### PROJECT QUALITY CONTROL DATA LCS Dun

|                                   | ECS Dup    |           |   |       |               |        |                 |       |       | ×       |                      |                       |
|-----------------------------------|------------|-----------|---|-------|---------------|--------|-----------------|-------|-------|---------|----------------------|-----------------------|
| Analyte                           | Orig. Val. | Duplicate | Q | Units | Spike<br>Conc | % Rec. | Target<br>Range | RPD I | Limit | Batch   | Sample<br>Duplicated | Analyzed<br>Date/Time |
| Purgeable Petroleum Hydrocarbons  | 5          |           |   |       |               |        |                 |       |       |         |                      |                       |
| 6105679-BSD2                      |            |           |   |       |               |        |                 |       |       |         |                      | <i>i</i>              |
| GRO (C4-C12)                      |            | 882       |   | ug/L  | 1000          | 88%    | 74 - 121        | 21    | 33    | 6105679 |                      | 10/29/06 04:27        |
| Surrogate: a,a,a-Trifluorotoluene |            | 21.8      |   | ug/L  | 30.0          | 73%    | 63 - 134        |       |       | 6105679 |                      | 10/29/06 04:27        |
| 5105788-BSD2                      |            |           |   |       |               |        |                 |       |       |         |                      |                       |
| GRO (C4-C12)                      |            | 770       |   | ug/L  | 1000          | 77%    | 74 - 121        | 8     | 33    | 6105788 |                      | 10/30/06 09:09        |
| Surrogate: a,a,a-Trifluorotoluene |            | 33.2      |   | ug/L  | 30.0          | 111%   | 63 - 134        |       |       | 6105788 |                      | 10/30/06 09:09        |

## ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Road Nashville, TN 37204 \* 800-765-0980 \* Fax 615-726-3404

nt Acton Mickelson Environmental, Inc. (13785)
 5175 Hillsdale Circle, Suite 100
 El Dorado Hills, CA 95762

Jennifer Guthmiller

1

## Work Order:NPJ3797Project Name:(06) Former RentProject Number:13042.01Received:10/27/06 08:00

NPJ3797 (06) Former Renton Terminal #46-080 13042.01 10/27/06 08:00

#### PROJECT QUALITY CONTROL DATA

Matrix Spike

| nalyte                           | Orig. Val. | MS Val | Q | Units | Spike Conc | % Rec. | Target<br>Range | Batch   | Sample<br>Spiked | Analyzed<br>Date/Time |  |
|----------------------------------|------------|--------|---|-------|------------|--------|-----------------|---------|------------------|-----------------------|--|
| eable Petroleum Hydrocarbons     |            |        |   |       |            |        |                 |         |                  |                       |  |
| 105679-MS2                       |            |        |   |       |            |        |                 |         |                  |                       |  |
| iRO (C4-C12)                     | 10.9       | 952    |   | ug/L  | 1000       | 94%    | 57 - 150        | 6105679 | NPJ3797-04       | 10/29/06 03:11        |  |
| 'a gate: a,a,a-Trifluorotoluene  |            | 33.0   |   | ug/L  | 30.0       | 110%   | 63 - 134        | 6105679 | NPJ3797-04       | 10/29/06 03:11        |  |
| 105788-MS2                       |            |        |   |       |            |        |                 |         |                  |                       |  |
| i) (C4-C12)                      | 0.891      | 896    |   | ug/L  | 1000       | 90%    | 57 - 150        | 6105788 | NPJ3630-20       | 10/30/06 07:54        |  |
| ugate: a,a,a-Trifluorotoluene    |            | 26.3   |   | ug/L  | 30.0       | 88%    | 63 - 134        | 6105788 | NPJ3630-20       | 10/30/06 07:54        |  |
| 644-MS1                          |            |        |   |       |            |        |                 |         |                  |                       |  |
| f (C4-C12)                       | 56.2       | 1330   |   | ug/L  | 1000       | 127%   | 57 - 150        | 6110644 | NPJ3797-01       | 11/04/06 02:34        |  |
| urrogate: a,a,a-Trifluorotoluene |            | 38.7   |   | ug/L  | 30.0       | 129%   | 63 - 134        | 6110644 | NPJ3797-01       | 11/04/06 02:34        |  |
|                                  |            |        |   |       |            |        |                 |         |                  |                       |  |

#### IESU ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Road Nashville, TN 37204 \* 800-765-0980 \* Fax 615-726-3404

Acton Mickelson Environmental, Inc. (13785) Client 5175 Hillsdale Circle, Suite 100 El Dorado Hills, CA 95762

Jennifer Guthmiller Attn

Received:

Work Order: NPJ3797 (06) Former Renton Terminal #46-080 Project Name: 13042.01 Project Number: 10/27/06 08:00

#### PROJECT QUALITY CONTROL DATA

Matrix Spike Dup

| \nalyte                            | Orig. Val. | Duplicate | Q | Units | Spike<br>Conc | % Rec. | Target<br>Range | RPD | Limit | Batch   | Sample<br>Duplicated | Analyzed<br>Date/Time |
|------------------------------------|------------|-----------|---|-------|---------------|--------|-----------------|-----|-------|---------|----------------------|-----------------------|
| "urgeable Petroleum Hydrocarbons   |            |           |   |       |               |        |                 |     |       |         |                      |                       |
| 6105679-MSD2                       |            |           |   |       |               |        |                 |     |       |         |                      |                       |
| GRO (C4-C12)                       | 10.9       | 957       |   | ug/L  | 1000          | 95%    | 57 - 150        | 0.5 | 33    | 6105679 | NPJ3797-04           | 10/29/06 03:26        |
| Surrogate: a,a,a-Trifluorotoluene  |            | 21.9      |   | ug/L  | 30.0          | 73%    | 63 - 134        |     |       | 6105679 | NPJ3797-04           | 10/29/06 03:26        |
| ጎ <b>105788-MSD2</b>               |            |           |   |       |               |        |                 |     |       |         |                      |                       |
| GRO (C4-C12)                       | 0.891      | 1040      |   | ug/L  | 1000          | 104%   | 57 - 150        | 15  | 33    | 6105788 | NPJ3630-20           | 10/30/06 08:09        |
| s'urrogate: a,a,a-Trifluorotoluene |            | 33.6      |   | ug/L  | 30.0          | 112%   | 63 - 134        |     |       | 6105788 | NPJ3630-20           | 10/30/06 08:09        |
| ;110644-MSD1                       |            |           |   |       |               |        |                 |     |       |         |                      |                       |
| GRO (C4-C12)                       | 56.2       | 1190      |   | ug/L  | 1000          | 113%   | 57 - 150        | 11  | 33    | 6110644 | NPJ3797-01           | 11/04/06 10:20        |
| Surrogate: a,a,a-Trifluorotoluene  |            | 39.1      |   | ug/L  | 30.0          | 130%   | 63 - 134        |     |       | 6110644 | NPJ3797-01           | 11/04/06 10:20        |

Network

#### **IESUAIIELICA** ANALYTICAL TESTING CORPORATION

Client Acton Mickelson Environmental, Inc. (13785) 5175 Hillsdale Circle, Suite 100 El Dorado Hills, CA 95762

Attn Jennifer Guthmiller

TestAmerica - Nashville, TN

.

Work Order:NHProject Name:(06Project Number:130Received:100

NPJ3797 (06) Former Renton Terminal #46-080 13042.01 10/27/06 08:00

#### **CERTIFICATION SUMMARY**

| Method      | Matrix | AIHA | Nelac | Oregon |  |
|-------------|--------|------|-------|--------|--|
| NWTPH-Dx    | Water  | N/A  | Х     | Х      |  |
| NWTPH-Gx    | Water  | N/A  | Х     | X      |  |
| SW846 8260B | Water  | N/A  | Х     | Х      |  |



Client Acton Mickelson Environmental, Inc. (13785) 5175 Hillsdale Circle, Suite 100 El Dorado Hills, CA 95762 Attn Jennifer Guthmiller

Work Order:NPJ3797Project Name:(06) Former Renton Terminal #46-080Project Number:13042.01Received:10/27/06 08:00

#### NELAC CERTIFICATION SUMMARY

TestAmerica Analytical - Nashville does not hold NELAC certifications for the following analytes included in this report

<u>Method</u> NWTPH-Gx <u>Matrix</u> Water

Analyte GRO (C4-C12)

## ANALYTICAL TESTING CORPORATION

| Client | Acton Mickelson Environmental, Inc. (13785)<br>5175 Hillsdale Circle, Suite 100<br>El Dorado Hills, CA 95762 | Work Order:<br>Project Name:<br>Project Number: | NPJ3797<br>(06) Former Renton Terminal #46-080<br>13042.01 |
|--------|--|---|--|
| Attn   | Jennifer Guthmiller  | Received:                                       | 10/27/06 08:00   |
|        |  |   |  |

#### DATA QUALIFIERS AND DEFINITIONS

A-01 Analyte recovery was outside the laboratory historical limits but within method QC guidelines. No effect on data. J Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). Concentrations within this range are estimated. L Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted. Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was below acceptance limits. L2 MNR1 There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike. OSG Silica Gel clean-up performed on extracts.  $\mathbb{Z}$ Due to sample matrix effects, the surrogate recovery was below the acceptance limits. Z10 Surrogate outside laboratory historical limits but within method guidelines. No effect on data. **Z**3 The sample required a dilution due to the nature of the sample matrix. Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

#### METHOD MODIFICATION NOTES

| ANALYTICAL TESTING CORPORATION  |                        |                      |                 |                      |
|---|------------------------|----------------------|-----------------|----------------------|
| <u>Nashville Division</u><br>COOLER RECEIPT FORM  | DCH                    |                      |                 |                      |
|   | BC#                    |                      |                 | NPJ3797              |
| Cooler Received/Opened On10/27/2006<br>1. Indicate the Airbill Tracking Number (last 4 digits | @ 0800                 | nd Norma of Court    | J               | 630                  |
| Fed-Ex UPS Velocity   | DHL                    | Route                |                 |                      |
| 2. Temperature of representative sample or temperati<br>(indicate IR Gun ID#)                 |                        |                      | Off-street Degr | Misc.<br>ees Celsius |
| NA A00466 A00750 A  | 01124                  | 100190               | 101282          |                      |
| 3. Were custody seals on outside of cooler?   |                        |                      |                 | YESNQNA              |
| a. If yes, how many and where:  |                        |                      | NF              | I LO. UNNA           |
| 4. Were the seals intact, signed, and dated correctly?  |                        |                      |                 | YESNO.(NA)           |
| 5. Were custody papers inside cooler?   |                        |                      |                 | YES. NONA            |
| I certify that I opened the cooler and answered question                                      |                        |                      |                 | MS                   |
| 6. Were custody seals on containers: YE   |                        | and Int              |                 | TES NO NA            |
| were these signed, and dated correctly?   |                        | ***** ****           |                 | ESNO NA              |
|   |                        |                      | rmiculite       | Foam Insert          |
| Plastic bag Paper   | Other                  |                      | None            |                      |
| 8. Cooling process: Ice-pack  | Ice (direct            | contact) Dr          | yice O          | ther None            |
| 9. Did all containers are in good condition ( unbroker  | n)?                    | *******              |                 | ES).NONA             |
| 10. Were all container labels complete (#, date, signed, p                                    |                        |                      | >               | ESNONA               |
| 11. Did all container labels and tags agree with custody g                                    |                        |                      |                 | SNONA                |
| 12. a. Were VOA vials received?   |                        |                      |                 | S.NONA               |
| b. Was there any observable head space present in a   |                        |                      |                 |                      |
| I certify that I unloaded the cooler and answered question                                    | <u>s 6-12 (intial)</u> |                      |                 | M.                   |
| 13. a. On preserved bottles did the pH test strips suggest                                    |                        |                      |                 | ESNONA               |
| b. Did the bottle labels indicate that the correct present                                    |                        |                      | ~               | NONA                 |
| If preservation in-house was needed, record stan  | idard ID of presei     | rvative used here    |                 |                      |
| 14. Was residual chlorine present?  |                        |                      | YES             | NO. NA               |
| I certify that I checked for chlorine and pH as per SOP and                                   |                        |                      |                 | 1cp                  |
| 15. Were custody papers properly filled out (ink, signed, e                                   |                        |                      | 2               | NONA                 |
| 16. Did you sign the custody papers in the appropriate pla                                    |                        |                      |                 | NONA                 |
| 17. Were correct containers used for the analysis requested                                   |                        |                      |                 | NONA                 |
| 18. Was sufficient amount of sample sent in each container                                    |                        |                      | 4               | NONA                 |
| certify that I entered this project into LIMS and answered                                    |                        |                      | 11              | 10/                  |
| Certify that I attached a label with the mainman. I. IB. Common                               | s 30 i s s.            | 1 1996 hi fand sette |                 | 111.                 |

| ſ     |      | ****** |   |      |            | • ; |   |      |        |          | <br>-  | <br> | ~~~~ |  |
|-------|------|--------|---|------|------------|-----|---|------|--------|----------|--------|------|------|--|
| <br>1 | t    | エノー    | 5 | 存 論書 | ) <u>Å</u> |     |   | -38. | -18L V | <u> </u> | <br>RP |      |      |  |
|       | 1986 | ~      |   |      |            | -   | - |      |        |          |        |      |      |  |

ICSUA MICINCA ANALYTICAL TESTING CORPORATION Nashville Division COOLER RECEIPT FORM

BC#

|                          | er Received.               |                      |                    |  | ) and Name of                            | Courier below:   | 4684      |            |
|--------------------------|----------------------------|----------------------|--------------------|--|--|--|-----------|------------|
| . (                      | Fed-Ex                     | UPS                  | Velocity           | DHL                                      | Route                                    | Off-stree  |           |            |
| 2. Tem<br>(indic         | perature of reater R Gun   | epresentativ<br>ID#) | e sample or temp   | erature blank wh                         | en opened:                               | <u>40</u> De   | grees Cel | sius       |
| NA                       | A00466                     | A                    | .00750             | A01124                                   | 100190                                   | 101282   | 102       | 594        |
| 3. Wei                   | re custody sea             | ls on outside        | of cooler?         |  |  |  | YES       | )NA        |
|                          | a. If yes                  | , how many           | and where:         | an a |  | and the base of the state of the |           |            |
| 4. Wer                   | e the seals int            | act, signed,         | and dated correc   | tly?                                     | *****                                    |  | YESNO     |            |
| 5. Wer                   | e custody pap              | ers inside co        | oler?              | *******                                  | ****************                         |  | VES       | NA         |
| <u>I certify</u>         | that I opened              | the cooler :         | and answered que   | estions 1-5 (intial).                    |  |  | SR        |            |
| 6. Wer                   | e custody seal             | s on contain         | ers:               | YES NO                                   | $\mathbf{)}$                             | and Intact   | YES NO    | (AA)       |
|                          | were these                 | signed, and          | dated correctly?.  |  |  | ****   | YESNO     | NA         |
| 7. Wh                    | at kind of pa              | cking mat            | erial used?        | Bubblewrap                               | Peanuts                                  | Vermiculite  | Foam      | Insert     |
|                          |                            | Plastic bag          | Paper              | Other                                    |  | N  | one       |            |
| 8. Coo                   | oling process              | : ]                  | ice Ice-pa         | ick Ice (di                              | irect contact)                           | Dry ice  | Other     | None       |
| 9. Did a                 | ll containers a            | arrive in goo        | od condition ( unl | broken)?                                 |  | ******   | VES.NO.   |            |
|                          |                            |                      |                    | ned, pres., etc)?                        |  |  | TES.NO.   | F          |
|                          |                            |                      |                    | stody papers?                            |  |  | YESNO.    | (          |
|                          |                            |                      |                    | *****                                    |  | 1  | YES. NO.  |            |
|                          |                            |                      |                    | ent in any VOA via                       |  |  | YESNO     | $\bigcirc$ |
|                          |                            |                      |                    | estions 6-12 (intia                      |  |  |           |            |
|                          |                            |                      |                    |  |  | he correct pH leve   | el? YESNO | NA         |
|                          |                            |                      |                    | t preservatives we                       |  |  | YESNO     |            |
|                          | If preservati              | on in-house          | was needed, reco   | rd standard ID of                        | preservative use                         | ed here  |           | See        |
| 14. Was                  | residual chlor             | ine present          |                    | ****                                     | **********                               |  | YESNO     | NA CON     |
| I certify the            | hat I checked              | for chlorine         | and pH as per S    | OP and answered                          | questions 13-14                          | (intial)   |           | 463        |
| 15. Wer                  | e custody pap              | ers properly         | filled out (ink, s | igned, etc)?                             | *****                                    | *******  | YESNO     | .NA        |
| 16. Did y                | you sign the c             | ustody pape          | rs in the appropr  | iate place?                              | ** ** ** * * * * * * * * * * * * * * * * |  | YESNO     | .NA        |
| 17. Were                 | correct conta              | iners used f         | or the analysis re | quested?                                 |  | **********************   | YESNO     | NA         |
| 18. Wass                 | sufficient amo             | unt of samp          | le sent in each co | ntainer?                                 |  | ***********  | YESNO     | NA         |
| <u>l certify th</u>      | at I entered t             | <u>his project i</u> | nto LIMS and an    | swered questions                         | 15-18 (intial)                           |  |           |            |
| certify th               | at I attached              | a la <u>bel with</u> | the unique LIMS    | S number to each o                       | container (intial)                       |  |           |            |
|                          |                            |                      | sues at login YI   | ES NO Wasa I                             | PIPE generated                           | YES  | NO #      | -          |
| BIS = Brok<br>Cooler Rec | en in shipmen<br>eipt Form | t                    |                    | LF-1                                     |  |  | D 1       |            |

Revised 3/9/06

BC#

**Nashville Division** COOLER RECEIPT FORM

|                  |  | ened On10/27/0<br>cking Number (last 4 di | Children Chi | and Name of Co  | ourier below: $\dot{\mathcal{Y}}$        | 710         |           |
|------------------|--|---|--|---|--|-------------|-----------|
|                  | Fed-Ex UP  | S Velocity                                | DHL  | Route   | Off-street                               | Misc.       |           |
|                  | perature of represe<br>ate IR Gun ID#  | entative sample or temp<br>()             | perature blank whe   | n opened:   | <u>7.8</u> Deg                           | rees Celsiu | IS        |
| NA               | A00466   | A00750                                    | A01124   | 100190  | 101282                                   | Raynge      | er ST     |
| 3. Wei           | re custody seals on  | outside of cooler?                        |  |   |  | YES         | NA        |
|                  | a. If yes, how   | many and where:                           | ann an State an State an State an State an State and State and State and State and State and State and State a   | www.combining.com/antibulary.combine.com/architecture.com/architecture.com/architecture.com/architecture.com/ar |  |             |           |
| 4. Wei           | re the seals intact, s   | igned, and dated corre                    | ctly?  |   | ** | YESNO       | \$        |
| 5. Wei           | re custody papers in   | ıside cooler?                             |  |   |  | YES         | NA        |
| I certify        | y that I opened the  | cooler and answered qu                    | estions 1-5 (intial)   |   |  |             |           |
| 6. Wer           | e custody seals on   | containers:                               | YES NO   | ٤   | nd Intact                                | YES NO      | HA-       |
|                  | were these signe   | d, and dated correctly?                   |  |   | ** ****                                  | YESNO       | NAS I     |
| 7. Wł            | nat kind of packin   | ng material used?                         | Bubblewrap   | Peanuts   | Vermiculite                              | Foam In     | sert      |
|                  | Plas   | tic bag Paper                             | Other  |   | No                                       | ne          |           |
| 8. Co            | ooling process:  | Ice Ice-                                  | pack Ice (di   | rect contact)   | Dry ice                                  | Other       | None      |
| 9. Did           | all containers arriv   | e in good condition ( u                   | nbroken)?  |   | ******                                   | VES. NO     | <b>NA</b> |
| 10. We           | ere all container lat  | els complete (#, date, s                  | igned, pres., etc)?  |   | *************                            | ES.NOI      | <b>NA</b> |
| 11. Did          | l all container label  | s and tags agree with c                   | ustody papers?   |   |  | ES.NOI      | ٩A        |
| 12. я.           | Were VOA vials re  | eceived?                                  | ******   | * * * * * 5 * * * * * * * * * * * * * *   | *******                                  | YES         | ¶A.       |
| b.               | Was there any obs  | ervable head space pre                    | sent in any VOA via  | 1?  | *****                                    | YESNA.      | A         |
| I certify        | that I unloaded th   | e cooler and answered                     | questions 6-12 (intig  | <u>n</u>  | *******                                  | ¥           | <b></b>   |
| 13. a.           | On preserved bottl   | es did the pH test strip:                 | s suggest that preser  | vation reached (  | he correct pH leve                       | i? YESNO    | NĄ        |
| <b>b.</b>        | Did the bottle label   | s indicate that the corr                  | ect preservatives we   | re used   | ******                                   | YESNO?      |           |
|                  | If preservation i  | n-house was needed, re                    | cord standard ID of  | l preservative us   | ed here                                  |             | [         |
| 14. Wa           | s residual chlorine  | present?                                  |  |   |  | YESNOP      | IA        |
| <u>I certify</u> | that I checked for   | chlorine and pH as per                    | · SOP and answered   | questions 13-14   | (intial)                                 |             |           |
| 15. We           | ere custody papers   | properly filled out (ink                  | , signed, etc)?  |   | *****                                    | YESNO       | NA        |
| 16. Die          | d you sign the custo   | dy papers in the appro                    | priate place?  |   | e e a a a a a a a a a a a a a a a a a a  | YESNO       | NA        |
| 17. We           | re correct containe  | rs used for the analysis                  | requested?   |   | ******                                   | YESNOP      | IA        |
| 18. Wa           | s sufficient amount  | of sample sent in each                    | container?   |   |  | YESNOP      | IA        |
| I certify        | that I entered this  | project into LIMS and                     | answered questions   | 15-18 (intial)  |  |             |           |
| I certify        | I certify that I attached a label with the unique LIMS number to each container (intial) |   |  |   |  |             |           |
| 19. Wer          | e there Non-Confo  | rmance issues at login                    | YES NO Was a   | PIPE generated  | YES                                      | NO #        |           |
|                  | roken in shipment<br>Receipt Form  |   | LF-1   |   |  | Revised     | 1 3/9/06  |

Ser 4630

End of Form

| ANALYTICAL TESTING CORPORATION   |                     |
|--|---------------------|
| Nashville Division<br>COOLER RECEIPT FORM BC#  |                     |
| Cooler Received/Opened On_10/27/06_@_08:00_<br>1. Indicate the Airbill Tracking Number (last 4 digits for Fedex only) and Name of Courier below:   | 4618                |
| Fed-Ex UPS Velocity DHL Route Off-street   | Misc.               |
| 2. Temperature of representative sample or temperature blank when opened: <u>3.0</u> Deg<br>(indicate IR Gun ID#)  | grees Celsius       |
| NA         (100466)         A00750         A01124         100190         101282         10594           3. Were custody seals on outside of cooler?         a. If yes, how many and where: | Raynger ST<br>YES Ø |
| <ul> <li>4. Were the seals intact, signed, and dated correctly?</li></ul>  | YESNO               |
| 6. Were custody seals on containers: YES NO and Intact   | YES NO AA           |
| were these signed, and dated correctly?  | YESNONA             |
| 7. What kind of packing material used? Bubblewrap Peanuts Vermiculite  | Foam Insert         |
| Plastic bag Paper Other No   | one                 |
| 8. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice  | Other None          |
| 9. Did all containers arrive in good condition (unbroken)?   | ES. NONA            |
| 10. Were all container labels complete (#, date, signed, pres., etc)?  | NONA                |
| 11. Did all container labels and tags agree with custody papers?   | YESNONA             |
| 12. a. Were VOA vials received?  | YES                 |
| b. Was there any observable head space present in any VOA vial?  | YESNO               |
| I certify that I unloaded the cooler and answered questions 6-12 (intial)  |                     |
| 13. a. On preserved bottles did the pH test strips suggest that preservation reached the correct pH level  | ? YESNONA           |
| b. Did the bottle labels indicate that the correct preservatives were used   | YESNONA             |
| If preservation in-house was needed, record standard ID of preservative used here  | \                   |
| 14. Was residual chlorine present?   | YESNONA             |
| I certify that I checked for chlorine and pH as per SOP and answered questions 13-14 (intial)  |                     |
| 15. Were custody papers properly filled out (ink, signed, etc)?  | YESNONA (1.30       |
| 16. Did you sign the custody papers in the appropriate place?  | YESNONA 465V        |
| 17. Were correct containers used for the analysis requested?   | YESNONA             |
|  | YESNONA             |
| I certify that I entered this project into LIMS and answered questions 15-18 (initial)   |                     |
| I certify that I attached a label with the unique LIMS number to each container (intial)   |                     |
| 19. Were there Non-Conformance issues at login YES NO Was a PIPE generated YES   | NO #                |

BIS = Broken in shipment Cooler Receipt Form

Revised 3/9/06

BC#

l'est America

**COOLER RECEIPT** FORM

**Nashville** Division

ANIALYTICAL TESTING CORPORATION

| Cooler Received/Opened On:10/27/20068:001. Indicate the Airbill Tracking Number (last 4 digits for Fedex only) and Name of Courier below: | 1662          |
|---|---------------|
| FED-EX<br>Temperature of representative sample or temperature blank when opened: Degree<br>(indicate IR Gun ID#)                          | ees Celsius   |
| 101507  |               |
| 3. Were custody seals on outside of cooler?   | . YES. NO. NA |
| a. If yes, how many and where:  | 0             |
| 4. Were the seals intact, signed, and dated correctly?  | YESNONA       |
| 5. Were custody papers inside cooler?   | YESNONA       |
| I certify that I opened the cooler and answered questions 1-5 (intial)  | U.C.          |
| 6. Were custody seals on containers: YES (NO) and Intact  | YES NO NA     |
| were these signed, and dated correctly?   | YESNONA       |
| 7. What kind of packing material used? Bubblewrap Peanuts Vermiculite   | Foam Insert   |
| Plastic bag Paper Other N   | one           |
| 8. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice   | Other None    |
| 9. Did all containers arrive in good condition ( unbroken)?   | TES .NONA     |
| 10. Were all container labels complete (#, date, signed, pres., etc)?   | YESNONA       |
| 11. Did all container labels and tags agree with custody papers?  | WESNONA       |
| 12. a. Were VOA vials received?   | YES. NO. NA   |
| b. Was there any observable head space present in any VOA vial?   | YES NO. (NA)  |
| I certify that I unloaded the cooler and answered questions 6-12 (intial)   |               |
| 13. a. On preserved bottles did the pH test strips suggest that preservation reached the correct pH lev                                   | el? YESNONA   |
| b. Did the bottle labels indicate that the correct preservatives were used  | YESNONA       |
| If preservation in-house was needed, record standard ID of preservative used here   |               |
| 14. Was residual chlorine present?  | YESNONA       |
| I certify that I checked for chlorine and pH as per SOP and answered questions 13-14 (intial)   | Ne            |
| 15. Were custody papers properly filled out (ink, signed, etc)?   | YESNONA 4630  |
| 16. Did you sign the custody papers in the appropriate place?   | YESNONA       |
| 17. Were correct containers used for the analysis requested?  | YESNONA       |
| 18. Was sufficient amount of sample sent in each container?   | YESNONA       |
| I certify that I entered this project into LIMS and answered questions 15-18 (intial)   | *             |
| I certify that I attached a label with the unique LIMS number to each container (intial)  |               |
| 19. Were there Non-Conformance issues at login YES NO Was a PIPE generated YES  | NO #          |
|   | <b>`</b>      |

BC#

lesu

VTICAL TESTING CORPORATION

Nashville Division COOLER RECEIPT FORM

|                            | Fed-Ex)                      | UPS              | ng Number (last 4 d<br>Velocity |  |   | Courier below:   | 912                                   |   |
|----------------------------|------------------------------|------------------|---------------------------------|--|---|--|---------------------------------------|---|
|                            | $\smile$                     |                  | •                               | DHL  | Route                                     | Off-str  | eet Misc.                             |   |
| 2. Tem<br>(indic:          | perature of re<br>ate IR Gun | presenta<br>ID#) | tive sample or temp             | perature blank wh  | en opened:                                | <u>2.4</u> D   | egrees Celsius                        |   |
| NA                         | A00466                       |                  | A00750                          | A01124   | 100190                                    | 10128  | 32 102594                             |   |
| 3. Wer                     | e custody seal               | s on outs        | ide of cooler?                  | **************   |   |  |                                       |   |
|                            |                              |                  | ny and where:                   | an system of games, and set of a state of a state of the state |   | ********   | YESNQNA                               |   |
| 4. Were                    |                              |                  | d, and dated correc             |  |   | n yn ymaeth adwr og yn ganad ar fall a geraf an mae'n gan y Caralle yn a fallaeth a fallaeth a fallaeth a fall | · · · · · · · · · · · · · · · · · · · | •   |
| 5. Were                    | custody pape                 | ers inside       | cooler?                         | ••• <i>5</i> • • • • • • • • • • • • • • • • • • •   | ****************                          | ********************   | . YESNO                               |   |
| I certify                  | that I opened                | the coole        | r and answered que              | etione 1 5 (intial)  |   |  | YESNONA                               |   |
| 6. Were                    | custody seals                | on conts         | iners:                          |  |   |  | Jr.                                   |   |
| -                          |                              |                  | d dated correctly?              | YES NO   | ) :                                       | and Intact   | YES NO NA                             |   |
| 7 XVL-                     |                              |                  |                                 |  | *********                                 |  | YESNO. NA                             | <b>)</b>  |
| 7. wna                     | t kind of pac                | king m           | aterial used?                   | Bubblewrap   | Peanuts                                   | Vermiculit   | e Foam Insert                         |   |
|                            | P                            | lastic b         | ag Paper                        | Other  |   | ٩  | None                                  |   |
| 8. Cool                    | ing process:                 |                  | Ice lee-pa                      | ck Ice (dir  | ect contact)                              | Dry ice  | 0.0                                   |   |
| 9. Did ali                 | containers ar                | rive in g        | ood condition ( unb             |  |   |  | Other None                            |   |
| 10. Were                   | all container                | labels co        | mplete (#, date, sign           | and nimes and be   |   |  | YES. NONA                             |   |
| 11. Did a                  | ll container la              | bels and         | tags agree with cust            | ieu, pres., etc)/  |   | ****************   | YESNONA                               |   |
| 12. a. W                   | ere VOA vials                | receiver         |                                 | ouy papers?  | ****                                      |  | YES NO NA                             |   |
| b. W                       | as there any o               | heervahl         | l?                              | *******************  | **  |  | YES. NONA                             | A   |
| I certify the              | at I unloaded                | the seels        | e head space presen             | t in any VOA vial?   |   | ******************************   | YESNONA                               |   |
| 13. a. On                  | preserved bot                | Me CUUE          | r and answered que              | stions 6-12 (intial)   |   |  |                                       |   |
| h Did                      | the bettle tot               | tites and t      | ne pH test strips su            | ggest that preserva  | tion reached th                           | e correct pH leve  | el? YESNDNA                           | $\int$  |
|                            | the Dottle lab               | els indici       | ate that the correct            | preservatives were   | used                                      |  | YESNONA                               | (   |
| A. 1977.                   | i preservation               | in-house         | e was needed, record            | l standard ID of p   | reservative used                          | here   |                                       | $\overline{\}$  |
| 4. was re                  | sidual chlorin               | e presen         | 17                              | ***********************  | • • • • • • p = + 0 = 5 • • • • • • • • • |  | YESNONA                               |   |
| certify tha                | t I checked for              | <u>r chlorin</u> | e and pH as per SO              | P and answered qu  | estions 13-14 (in                         | ntial)   |                                       | 1500  |
| 5. Were c                  | ustody papers                | s properl        | y filled out (ink, sig          | ned, etc)?   | *****************                         | ********   | YESNONA                               | 1 /le<br>4/35   |
| 6. Did you                 | ı sign the cust              | ody pape         | ers in the appropria            | te place?  |   | ******   | YESNONA                               | 1 112   |
| 7. Were co                 | rrect containe               | ers used         | for the analysis requ           | ested?   | *****                                     | *  | YESNONA                               | 1 465   |
| . Was suf                  | ficient amoun                | t of samp        | le sent in each cont            | ainer?   |   | ******   | YESNONA                               |   |
| ertify that                | I entered this               | project i        | nto LIMS and answ               | ered questions 15-   | 18 (intial)                               |  |                                       | $\backslash$  |
| ertify that                | I attached a la              | bel with         | the unique LIMS n               | umber to each con  | tainer (intial)                           |  |                                       | $\sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{i$ |
| Were ther                  | e Non-Confor                 | mance is         | sues at login YES               |  | E generated                               |  |                                       | -   |
| s = Broken<br>bler Receipt | in shipment                  |                  |                                 |  | - generateu                               | YES  | NO #                                  | )   |

Revised 3/9/06

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| Geotracker Glo           |                |                               | - ·  | -                 |                  |         |           | S                    |              |          |   |   | 9/5     | X  | $\checkmark$ |     |    | <b>J37</b> 9<br>')6 2: |            | $\sim$              | $\geq$                                    |
|--------------------------|----------------|-------------------------------|--|-------------------|------------------|---------|-----------|----------------------|--------------|----------|---|---|---------|----|--------------|-----|----|------------------------|------------|---------------------|---|
| Attn.: JEWIFER           | cle, Suite 100 | X Sam<br>Elect<br>Geot<br>Raw | ninary Fax Result<br>ble Receipt/ Log-In C<br>ronic Data Deliverab<br>racker EDF<br>Data Deliverables<br>with Verbal Results |                   | ١                | Matrix  | Container | Number of Containers | Preservative | Red      | 100 100 100 100 100 100 100 100 100 100 | All | S MARCH | 07 |              |     |    |                        |            | ARIA                |   |
| Lab ID<br>(LAB USE ONLY) | Field Point ID | 5                             | Sample ID  | Date<br>Collected | Time<br>Collecte |         |           |                      |              | <u> </u> | [                                       |   | ·       | -  |              | Ť   | 1  | f í                    |            | Comme               | ents                                      |
|                          | 0-7            | D-7                           | 102406   | 10/24/06          | jų 40            | GW      | V<br>68   | 6<br>2               | HL           |          | X                                       | X                                       | N       | P  | 3            | 7   | 77 | -01                    |            |                     | ann an an an Anna an Anna an Anna an Anna |
|                          | B-2            | B                             | 2-10 2306  | 14/23/06          | 1530             | GW      | v<br>Gb   | 62                   | He           | X        | X                                       | X                                       |         |    |              |     | фд |                        | ET-        | e En.               | nol                                       |
|                          | 8-5            | B -                           | 5-102306   | 10/23/06          | 1600             | GW      | V<br>68   | 62                   | HC<br>HC     | ×        | X                                       | ×                                       |         |    |              | 0   | 53 |                        |            |                     | -   |
|                          | HA-1           | HA -1                         | - 102406   | 10/24/06          | 0250             | 44      | 50        | 6                    | HC<br>HC     | X        | X                                       | ×                                       |         |    |              | C   | H  |                        |            |                     |   |
|                          | HA-11          | HA-1                          | 1-102106   | 10/2-1/06         | ぴの               | GW      | V<br>66   | 4                    | 4L<br>4C     | X        | ×                                       | Х                                       |         |    |              | Č   | 15 |                        | L.n<br>Qua | nitio s<br>intite a | somple .                                  |
|                          | HA-10          | itA-1                         | 0-102406   | 10/24/06          | 0915             | GW      | ٧         | 5                    | HC           | χ        | Х                                       |   |         |    |              | D   | 6  |                        |            |                     | le Quin tri                               |
|                          | HA-9           | HA-0                          | 9-102406   | 10/24/06          | 0930             | GW      | V<br>63   | 6                    | HC           | Х        | x                                       | $\times$                                |         |    |              | 6   | 2  |                        | Lim. H     | ed Samp             | 6 Wash!<br>Amber                          |
|                          | HA-Z           | HA-T                          | 2-102406   | 10/24/06          | 0945             | 1       |           |                      | He           | Х        | X                                       |   |         |    |              | 5   | 8  |                        | inte       | i) Sample           | www.                                      |
|                          | QARC           | B-2-10                        | 2306 - TB  | 10/23/06          | 1500             | ĸω      | v         | Ч                    | HC           | X        | ×                                       |   |         |    |              | þ   | 9  |                        |            | *****               | ********                                  |
|                          | QAQC           | TEMP                          | BLANK  | 1423/06           | 1500             | RW      | 0         | i                    | -            |          |   |   |         |    |              |     |    | X                      | Ip         | er los              | oher                                      |
| Signature                | 201.9          |                               | Date   | Time              |                  | Signatu | ıre       |                      |              | A        | 11.                                     | 1                                       |         |    |              |     | Da | 11                     | <u> </u>   |                     | ime                                       |
| Relinquished by:         | Jal hu         |                               | 10/25/06   | 1340              |                  | Relinq  | uishe     | ed b                 | Y:           | <u>M</u> | hy                                      | (M                                      | cubs    | 11 |              |     | 10 | 24/0                   | 2          | 14:08               | ?   |
| Received by:             | mgs            |                               | 10/25/06   | 1340              |                  | Receiv  | /ed b     | y:                   | _[1          | a degle  |   |   |         |    |              | - * | D  | 2/0                    | 6          |                     | 0,0                                       |
| Relinquished by:         |                |                               |  |                   |                  | Relinq  | uishe     | ed b                 | y:           |          |   |   |         |    |              |     |    | - <b>-</b>             |            | 3                   | 3 2                                       |
| Received by:             |                |                               |  |                   |                  | Receiv  | red b     | y:                   |              |          |   |   |         |    |              | _   |    |                        |            |                     |   |

| Acton • N   | lickelson •   | Enviro   | onmental.  | Inc. T  | 0               |   | <b>TAT</b>   |                      |              | <b>[n</b> |                        | 1            | . 7      |       |             | -  |                |  | Bentlegangpents. | r 0 0        | <u>^</u>                                |
|---|---|--|--|---|-----------------|---|--------------|----------------------|--------------|-----------|------------------------|--------------|----------|-------|-------------|----|----------------|--|------------------|--------------|---|
|   | stody and Ana   |  |  |   | 5               | idard                                       |              | <u> </u>             | 4            | 1         |                        |              |          |       | Ch          |    |                | usto   |                  | 529          |   |
| Geotracker Glo  |   |  | uest i onn   | ا <sub>لتخ</sub> ير ا                         | RUS             | הד H3<br>                                   | ا لہ<br>۱ لہ | ndi 24<br>┳          |              | -         |                        | enter.72     |          | : TAT | $\sim$      |    | 72 I<br>^      | hr. TA   | л<br>х           | <u>5</u> 5 0 | day TAT                                 |
| Send Results to<br>5175 Hillsdale Cin<br>El Dorado Hills, C<br>(916) 939-7550, F<br>Attn.: SEMVICET   | cle, Suite 100  | X Sam<br>Elect<br>Geot<br>X Raw  | ninary Fax Result<br>ble Receipt/ Log-In C<br>ronic Data Deliverab<br>racker EDF<br>Data Deliverables<br>vith Verbal Results |   | n               | Matrix                                      | Container    | Number of Containers | Preservative | Aso,      | to the state           | A W CO CO CO | A LA LA  |       |             |    |                |  |                  |              | >                                       |
| Lab ID<br>(LAB USE ONLY)  | Field Point ID  | 5  | Sample ID  | Date<br>Collected                             | Time<br>Collect |   |              |                      |              |           |                        |              |          |       | 1           | 1  | 1              | $\int$   |                  | Commer       | nts                                     |
|   | HA-4  | 4A-4-  | 102406   | 10/24/06                                      | 1000            |   | V<br>GB      | 6                    | HC<br>HC     |           | ×                      | ×            | h        | IRS   | 3           | 29 | 2-1            | *  |                  |              | -Queut.h                                |
|   | W-3   | W-3 -  | 102406   | 10/24/05                                      | 1040            | 64  | V<br>CB      | 12                   | He           | ×         | X                      | $\times$     |          |       |             |    | 11             | 1. 1   |                  | E than       |   |
|   | W-4   | W-4-   | 02406  | 1424/06                                       | 1115            | - 6h  | 1 6B         | 62                   | He           | X         | x                      | χ            |          | -     |             |    | 12             |  |                  |              | -                                       |
|   | HA-14   | HA-14-   | 102406   | 10/24/06                                      | 1216            | 6 m   | v            | 6                    | HC           | ×         | ×                      |              |          |       |             |    | 13             | $\hat{\mathbf{z}}$   |                  |              | Quantity                                |
|   | HA-13   | HA-13-   | 102402   | 10/24/06                                      | 1220            | 66  | V<br>6-B     | 6                    | He           | χ         | ×                      | X            |          |       |             |    | 14             | $\left( \right)$   | limite           | d Sampl      | k Aranfa)                               |
|   | HA-5  | HA-5-  | -102406  | 10/24/00                                      | 1230            | GW  | V<br>60      | 2                    | HK HK        | X         | x                      | x            |          |       |             | 1  | 15             |  |                  |              |   |
|   | HA-7  | HA-7-  | 101506   | 10/24/06                                      | 1245            |   | ·V<br>60     | 6                    | HC<br>Ifc    | x         | X                      | X            |          |       |             | 1  | 6              |  |                  |              | n den men di tendi dipingrada gang de g |
|   | HA-12   | HA-12-   | 102406   | 10/24/06                                      | 1345            |   | V<br>68      | 1.                   | HC<br>HC     | x         | x                      | X            |          |       |             | 1  | 7              |  |                  |              | e Quart                                 |
|   | HA-6  | HA-6-  | 102406   | 10/24/06                                      | 1315            | GW  | V<br>68      | 62                   | HC HC        | x         | $\times$               | $\times$     |          |       |             | 1  | P              |  |                  |              |   |
|   | QAQC  | QUPE-2-  | 102406   | 14/24/06                                      | Same and        | GW  | 266          | 62                   | He           | Х         | ۴                      | X            |          |       |             | /  | 9              |  |                  |              |   |
| Signature   |   |  | Date   | Time  |                 | Signat                                      | ure          |                      |              | A         |                        |              | 2        |       | 1           |    | Daj            | ve /   | ,                | Tin          | ne                                      |
| Relinquished by: _(   | Jail 15   |  | 10/25/06   | 1340  |                 | Relin                                       | quish        | ed b                 | y:           | (M)       | Hu                     | 1 (1         | an       | pl    | :           |    | 10/2           | in   | /                | 14:00        |   |
| Received by: Z  | to be   |  | 10/25/06   | 1340  | , .             | Recei                                       | ved I        | oy:                  |              | 14        | in the                 |              |          |       |             | 1  | 8/2            | 17/8   | 6                | ODO          | ØD                                      |
| Relinquished by:  |   |  |  |   |                 | Relind                                      | quish        | ed by                | y:           |           |                        |              |          |       |             |    |                |  |                  |              |   |
| Received by:  |   |  |  |   |                 | Recei                                       | ved b        | oy:                  |              |           |                        |              |          |       |             |    |                | ·······  |                  |              |   |
| Matrix: W - Water; DW - D<br>RW - Reagent Water; S - 3<br>Container: GB - Glass Bo<br>P - Polythethylene; GJ - Gl<br>Preservative: C - Cold; HS | Soil; SE - Sediment; SV - S<br>itle (Amber); V - 40 ml VOA<br>ass Jar, SC - Summa Cani: | oil Vapor; AA - A<br>Vial; BT, ST, PT<br>ster; TD - Tedlar<br>chloric Acid; HN | mbient Air; WS - Waste (S<br>- Brass, Steel, and Plastic   | Solid); O - Othe<br>c Tube;<br>Hydroxide; O - | P<br>Other S    | Project N<br>Project N<br>Sampled<br>YELLOV | lumbe        | er:                  | 130<br>(.:an | 42.<br>Ki | o  <br>cher<br>Print I | 1500         | <u>ر</u> | n) r  | entr<br>Rec |    | Terr<br>g Lab: | and the second | )<br>Dignatur    | e            | · · · · · · · · · · · · · · · · · · ·   |

| Chain of Cus  | lickelson •<br>stody and Ana  |  | Guest Form   | 5 (A)                    |                   |        |           | -                    |              | 1           |       | 3_0                                      |                                       |       |            | Cha      | in of  | Cu               | stody  | 5291   |
|---|---|--|--|--------------------------|-------------------|--------|-----------|----------------------|--------------|-------------|-------|--|---------------------------------------|-------|------------|----------|--------|------------------|--------|--|
| Geotracker Glo  | bal ID  | iyala ne   | quest Form   |                          | RUSH              |        | Ļ.,       | _ <u>1</u> 24        |              |             |       |  | 48 h                                  |       | AT.        |          | 7      | 2 hr.            | TAT    | 🗌 5 day  |
| <mark>Send Results to</mark><br>5175 Hillsdale Ci<br>El Dorado Hills, C | :<br>rcle, Suite 100<br>CA 95762<br>AX (916) 939-7570   | X Sam<br>X Elec<br>Geot  | minary Fax Result<br>ple Receipt/ Log-In C<br>tronic Data Deliverab<br>tracker EDF<br>Data Deliverables<br>with Verbal Results | confirmation<br>les      | ו                 | Matrix | Container | Number of Containers | Preservative | Redu        |       | 0 20 00 00 00 00 00 00 00 00 00 00 00 00 | A A A A A A A A A A A A A A A A A A A | er er | \<br> <br> | \        |        | $\sum_{i=1}^{i}$ |        |  |
| (LAB USE ONLY)  | Field Point ID  |  | Sample ID  | Date<br>Collected        | Time<br>Collected |        |           |                      |              |             |       |  | (                                     |       |            |          | -      |                  |        | Comments   |
|   | B-1   | B-1-1  | 02406  | 10/24/06                 |                   | GW     | V<br>6-6  | 6<br>2               | He<br>He     | ×           | X     | $\star$                                  | k                                     | R     | 3          | 78       | 2-     | 2                | 6      |  |
|   |   | an a   |  |                          |                   |        |           |                      |              |             |       |  |                                       |       |            |          |        |                  |        | = Ethoms)  |
|   |   | and the second state of the se |  |                          |                   |        |           |                      |              |             |       |  |                                       |       |            |          |        |                  |        |  |
| -<br>-  |   |  |  | -                        |                   |        |           |                      |              |             |       |  |                                       |       |            |          |        |                  |        |  |
|   |   |  |  |                          |                   |        |           |                      |              |             |       |  |                                       |       |            |          |        |                  |        |  |
|   |   |  |  |                          |                   |        |           |                      |              |             |       |  |                                       |       |            |          |        |                  |        |  |
|   |   |  |  |                          |                   |        |           |                      |              |             |       |  |                                       |       |            |          |        |                  |        |  |
|   |   |  |  |                          |                   |        |           |                      |              |             |       |  |                                       |       |            |          |        |                  | -      |  |
|   |   |  |  |                          |                   |        |           |                      |              |             |       |  |                                       |       |            |          |        | +                | -      |  |
|   |   |  |  |                          |                   |        |           |                      |              |             |       |  |                                       |       |            |          |        | +                |        | a dha dha dha an ann an a |
| gnature   |   | 1990 - Marine Andrewson, 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 19  | Date   | Time                     | Si                | gnatur | e         |                      |              |             |       |  |                                       |       |            | <u> </u> |        | ale              |        | Time   |
| elinquished by:   |   |  | 10/25/06   | 1340                     | Re                | elinqu | ishe      | d by:                |              | ar          | lug   | Cur                                      | inter                                 | U.    |            |          | 10/2   | f                | Ç.     | 14:00  |
| eceived by:   | to for  |  | 10/25/06   | 1340                     | Re                | eceive | ed by     | /:                   |              | Ff.         | Ba    |  |                                       |       |            |          | 101    |                  |        | 8200   |
| linquished by:  |   |  |  |                          | Re                | elinqu | ishe      | d by:                |              |             |       |  |                                       |       |            |          |        |                  |        |  |
| ceived by:  |   |  |  |                          | Re                | eceive | d by      | /:                   |              |             |       |  |                                       |       |            |          |        |                  |        |  |
| ntainer: GB - Glass Bottl<br>Polythethylene; GJ - Glas                  | nking Water; SW - Surface<br>oil; SE - Sediment; SV - Soi<br>e (Amber); V - 40 ml VOA v<br>ss Jar, SC - Summa Canist<br>Sulfuric Acid; HC - Hydroch | I Vapor; AA - Ai<br>'ial; BT, ST, PT   | mbient Air; WS - Waste (So<br>- Brass, Steel, and Plastic <sup>-</sup>   | lid); O - Other<br>lube; | Proje             |        | nber:     | <u> </u>             | 304          | 12,0<br>Ric | har   | Son                                      |                                       | n     | entar<br>F |          | ng Lat |                  |        | ×  |
|   |   | OF   | IGINAL - Laboratory (Retu  | rn with Report           | ) VEI             | LOW -  |           |                      |              | Pr          | III N | ame                                      |                                       |       |            |          |        |                  | Signat | ure  |

Laboratory (Return with Report) YELLOW - Laboratory

## **TestAmerica**

2960 Foster Creighton Road Nashville, TN 37204 \* 800-765-0980 \* Fax 615-726-3404

November 08, 2006

Client: Acton Mickelson Environmental, Inc. (13785) 5175 Hillsdale Circle, Suite 100 El Dorado Hills, CA 95762 Attn: Jennifer Guthmiller

#### SAMPLE IDENTIFICATION

W-1-102306 W-2-102306 B-6-102306 D-6-102306 DUPE-1-102306 W-1-102306-TB Work Order:NFProject Name:(06Project Nbr:130P/O Nbr:450Date Received:10/

NPJ3345 (06) Former Renton Terminal #46-080 13042.01 4507265171 10/25/06

#### LAB NUMBER

NPJ3345-01 NPJ3345-02 NPJ3345-03 NPJ3345-04 NPJ3345-05 NPJ3345-06

#### COLLECTION DATE AND TIME

10/23/06 12:25 10/23/06 12:45 10/23/06 13:15 10/23/06 13:40 10/23/06 00:01 10/23/06 09:00

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accreditation.

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Oregon Certification Number: TN200001

The Chain(s) of Custody, 3 pages, are included and are an integral part of this report.

These results relate only to the items tested. This report shall not be reproduced except in full and with permission of the laboratory. Report Approved By:

Leah R. Klingensmith Senior Project Management

### Test ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Road Nashville, TN 37204 \* 800-765-0980 \* Fax 615-726-3404

| Client<br>Attn  | Acton Mickelson Environmental,<br>5175 Hillsdale Circle, Suite 100<br>El Dorado Hills, CA 95762<br>Jennifer Guthmiller | Inc. (13785) |      |        | Work (<br>Project<br>Project<br>Receive | Name:<br>Number: | NPJ3345<br>(06) Former Ren<br>13042.01<br>10/25/06 08:00 | ton Terminal #46-     | -080   |       |
|---|--|--------------|------|--------|---|------------------|--|-----------------------|--------|-------|
| processing and the second s |  |              |      | ANALYT | ICAL REPO                               | RT               |  |                       |        |       |
| Analyte   |  | Result       | Flag | Units  | MDL                                     | MRL              | Dilution<br>Factor                                       | Analysis<br>Date/Time | Method | Batch |

#### Sample ID: NPJ3345-01 (W-1-102306 - Ground Water) Sampled: 10/23/06 12:25

Selected Volatile Organic Compounds by EPA Method 8260B

| Selected Volatile Organic Compounds    | by EPA Meth | 10d 8260B  |           |             |      |     |                |             |         |
|--|-------------|------------|-----------|-------------|------|-----|----------------|-------------|---------|
| Benzene                                | 14500       |            | ug/L      | 62.0        | 200  | 200 | 11/02/06 01:02 | SW846 8260B | 6106005 |
| Ethylbenzene                           | 2420        |            | ug/L      | 4.60        | 20.0 | 20  | 11/02/06 00:37 | SW846 8260B | 6106005 |
| Methyl tert-Butyl Ether                | 33.6        |            | ug/L      | 0.310       | 1.00 | 1   | 11/02/06 00:12 | SW846 8260B | 6106005 |
| Toluene                                | 8400        |            | ug/L      | 44.0        | 200  | 200 | 11/02/06 01:02 | SW846 8260B | 6106005 |
| Xylenes, total                         | 20800       |            | ug/L      | 88.0        | 600  | 200 | 11/02/06 01:02 | SW846 8260B | 6106005 |
| Ethanol                                | ND          |            | ug/L      | 62.0        | 100  | 1   | 11/02/06 00:12 | SW846 8260B | 6106005 |
| Surr: 1,2-Dichloroethane-d4 (62-142%)  | 134 %       |            |           |             |      | 1   | 11/02/06 00:12 | SW846 8260B | 6106005 |
| Surr: Dibromofluoromethane (78-123%)   | 85 %        |            |           |             |      | Î   | 11/02/06 00:12 | SW846 8260B | 6106005 |
| Surr: Toluene-d8 (79-120%)             | 78 <b>%</b> | Z10        |           |             |      | 1   | 11/02/06 00:12 | SW846 8260B | 6106005 |
| Surr: 4-Bromofluorobenzene (75-133%)   | 116 %       |            |           |             |      | 1   | 11/02/06 00:12 | SW846 8260B | 6106005 |
| Extractable Petroleum Hydrocarbons     |             |            |           |             |      | -   |                |             |         |
| Diesel                                 | 9070        | QSG        | ug/L      | 183         | 481  | 5   | 10/28/06 16:47 | NWTPH-Dx    | 6104946 |
| Motor Oil                              | ND          | QSG        | ug/L      | 183         | 481  | 5   | 10/28/06 16:47 | NWTPH-Dx    | 6104946 |
| Surr: o-Terphenyl (51-142%)            | 68 %        |            | -         |             |      | 5   | 10/28/06 16:47 | NWTPH-Dx    | 6104946 |
| rgeable Petroleum Hydrocarbons         |             |            |           |             |      |     |                |             |         |
| GRO (C4-C12)                           | 91700       |            | ug/L      | 100         | 5000 | 50  | 10/29/06 11:51 | NWTPH-Gx    | 6105805 |
| Surr: a,a,a-Trifluorotoluene (63-134%) | 121 %       |            |           |             |      | 50  | 10/29/06 11:51 | NWTPH-Gx    | 6105805 |
| Sample ID: NPJ3345-02 (W-2-1023        | 306 - Groun | d Water) S | ampled    | 10/23/06 12 | .45  |     |                |             |         |
| Selected Volatile Organic Compounds    | by EPA Meth | od 8260B   | ani picai |             | 1070 |     |                |             |         |
| Benzene                                | 12500       |            | ug/L      | 62.0        | 200  | 200 | 11/02/06 02:17 | SW846 8260B | 6106005 |
| Ethylbenzene                           | 1710        |            | ug/L      | 4.60        | 20.0 | 20  | 11/02/06 01:52 | SW846 8260B | 6106005 |
| Methyl tert-Butyl Ether                | 21.7        |            | ug/L      | 0.310       | 1.00 | 1   | 11/02/06 01:32 | SW846 8260B | 6106005 |
| Toluene                                | 3470        |            | ug/L      | 4.40        | 20.0 | 20  | 11/02/06 01:52 | SW846 8260B | 6106005 |
| Xylenes, total                         | 8220        |            | ug/L      | 8.80        | 60.0 | 20  | 11/02/06 01:52 | SW846 8260B | 6106005 |
| Ethanol                                | ND          |            | ug/L      | 62.0        | 100  | 1   | 11/02/06 01:26 | SW846 8260B | 6106005 |
| Surr: 1,2-Dichloroethane-d4 (62-142%)  | 125 %       |            |           |             |      | 1   | 11/02/06 01:26 | SW846 8260B | 6106005 |
| Surr: Dibromofluoromethane (78-123%)   | 98 %        |            |           |             |      | i   | 11/02/06 01:26 | SW846 8260B | 6106005 |
| Surr: Toluene-d8 (79-120%)             | 96 %        |            |           |             |      | 1   | 11/02/06 01:26 | SW846 8260B | 6106005 |
| Surr: 4-Bromofluorobenzene (75-133%)   | 119 %       |            |           |             |      | 1   | 11/02/06 01:26 | SW846 8260B | 6106005 |
| Extractable Petroleum Hydrocarbons     |             |            |           |             |      |     |                |             |         |
| Diesel                                 | 5800        | QSG        | ug/L      | 183         | 481  | 5   | 10/28/06 17:05 | NWTPH-Dx    | 6104946 |
| Motor Oil                              | ND          | QSG        | ug/L      | 183         | 481  | 5   | 10/28/06 17:05 | NWTPH-Dx    | 6104946 |
| Surr: o-Terphenyl (51-142%)            | 78 %        |            |           |             |      | 5   | 10/28/06 17:05 | NWTPH-Dx    | 6104946 |
| Purgeable Petroleum Hydrocarbons       |             |            |           |             |      |     |                |             |         |
| GRO (C4-C12)                           | 53000       | ,          | ug/L      | 100         | 5000 | 50  | 10/29/06 12:06 | NWTPH-Gx    | 6105805 |
| Surr: a,a,a-Trifluorotoluene (63-134%) | 70 %        |            | ÷         | ~           |      | 50  | 10/29/06 12:06 | NWTPH-Gx    | 6105805 |
|  |             |            |           |             |      | 50  | 10/29/00 12.00 | 11111-0%    | 5100000 |

#### Somple ID: NPJ3345-03 (B-6-102306 - Ground Water) Sampled: 10/23/06 13:15

seted Volatile Organic Compounds by EPA Method 8260B

## **TestAmerica**

2960 Foster Creighton Road Nashville, TN 37204 \* 800-765-0980 \* Fax 615-726-3404

| ent | Acton Mickelson Environmental, Inc. (13785)   |  |
|-----|---|--|
|     | and an and a second s |  |

- 5175 Hillsdale Circle, Suite 100
  - El Dorado Hills, CA 95762

n Jennifer Guthmiller

Work Order:NPJ3345Project Name:(06) Former Renton Terminal #46-080Project Number:13042.01Received:10/25/06 08:00

|   |  | and a finite of the second state of the | ANALY     |               |           |                         |  |  |   |
|---|--|---|-----------|---------------|-----------|-------------------------|--|--|---|
| Analyte   | Result   | Flag  | Units     | MDL           | MRL       | Dilution<br>Factor      | •  | Method   | Batch   |
| ple ID: NPJ3345-03 (B-6-1023  | 606 - Ground   | l Water) -  | cont. San | nled: 10/23   | /06 13:15 |                         |  |  |   |
| Selected Volatile Organic Compounds   |  |   |           |               |           |                         |  |  |   |
| lenzene   | 2660   |   | ug/L      | 31.0          | 100       | 100                     | 11/02/06 03:31   | SW846 8260B  | 6106005   |
| lbenzene  | 566  |   | ug/L      | 2.30          | 10.0      | 10                      | 11/02/06 03:07   | SW846 8260B  | 6106005   |
| 4nyl tert-Butyl Ether   | 0.780  | J   | ug/L      | 0.310         | 1.00      | 1                       | 11/02/06 02:42   | SW846 8260B  | 6106005   |
| oluene  | 5280   |   | ug/L      | 22.0          | 100       | 100                     | 11/02/06 03:31   | SW846 8260B  | 6106005   |
| ines, total   | 4650   |   | ug/L      | 4.40          | 30.0      | 10                      | 11/02/06 03:07   | SW846 8260B  | 6106005   |
| 1 nol   | ND   |   | ug/L      | 62.0          | 100       | 1                       | 11/02/06 02:42   | SW846 8260B  | 6106005   |
| ırr: 1,2-Dichloroethane-d4 (62-142%)  | 124 %  |   | 0         |               |           | 1                       | 11/02/06 02:42   | SW846 8260B  | 6106005   |
| urr: Dibromofluoromethane (78-123%)   | 102 %  |   |           |               |           |                         |  | SW846 8260B  | 6106005   |
| i Toluene-d8 (79-120%)  | 102 %  |   |           |               |           | 1                       | 11/02/06 02:42   |  | 6106005   |
| vr: 4-Bromofluorobenzene (75-133%)  | 112 %  |   |           |               |           | 1                       | 11/02/06 02:42   | SW846 8260B  |   |
|   | 112 %  |   |           |               |           | 1                       | 11/02/06 02:42   | SW846 8260B  | 6106005   |
| ractable Petroleum Hydrocarbons   |  |   |           |               |           |                         |  |  |   |
| ) el  | 7050   | QSG   | ug/L      | 369           | 971       | 10                      | 10/27/06 20:32   | NWTPH-Dx   | 6104946   |
| fotor Oil   | 371  | QSG, J  | ug/L      | 369           | 971       | 10                      | 10/27/06 20:32   | NWTPH-Dx   | 6104946   |
| ırr: o-Terphenyl (51-142%)  | *  | Z3  |           |               |           | 10                      | 10/27/06 20:32   | NWTPH-Dx   | 6104946   |
| • Sle Petroleum Hydrocarbons  |  |   |           |               |           |                         |  |  |   |
| RO (C4-C12)   | 37400  |   | ug/L      | 40.0          | 2000      | 20                      | 10/29/06 12:21   | NWTPH-Gx   | 6105805   |
| ırr: a,a,a-Trifluorotoluene (63-134%)   | 109 %  |   | -8        |               |           | 20                      | 10/29/06 12:21   | NWTPH-Gx   | 6105805   |
|   |  |   |           |               |           | 20                      | 10,20,00   |  |   |
| aple ID: NPJ3345-04 (D-6-1023   |  |   | ampled:   | 10/23/06 13:4 | 10        |                         |  |  |   |
| elected Volatile Organic Compounds I  | by EPA Meth  | od 8260B  |           |               |           |                         |  |  |   |
| ( ene   | 111  |   | ug/L      | 0.310         | 1.00      | 1                       | 11/01/06 23:47   | SW846 8260B  | 6106005   |
| lbenzene  | 4.97   |   | ug/L      | 0.230         | 1.00      | 1                       | 11/01/06 23:47   | SW846 8260B  | 6106005   |
| lethyl tert-Butyl Ether   | ND   |   | ug/L      | 0.310         | 1.00      | 1                       | 11/01/06 23:47   | SW846 8260B  | 6106005   |
| oluene  | 19.0   |   | ug/L      | 0.220         | 1.00      | 1                       | 11/01/06 23:47   | SW846 8260B  | 6106005   |
| nes, total  | 22.7   |   | ug/L      | 0.440         | 3.00      | 1                       | 11/01/06 23:47   | SW846 8260B  | 6106005   |
| 10]   | ND   |   | ug/L      | 62.0          | 100       | 1                       | 11/01/06 23:47   | SW846 8260B  | 6106005   |
|   |  |   |           |               | 100       | -                       |  |  | 6106005   |
| rr: 1,2-Dichloroethane-d4 (62-142%)   | 119 %  |   | 8         |               | 100       | 1                       | 11/01/06 23:47   | SW846 8260B  |   |
| Dibromofluoromethane (78-123%)  | 119 %<br>103 %                                       |   | -8-       |               | 100       | 1                       |  |  | 6106005   |
|   |  |   |           |               | 100       | 1<br>1                  | 11/01/06 23:47<br>11/01/06 23:47   | SW846 8260B  | 6106005<br><i>6106005</i>   |
| Dibromofluoromethane (78-123%)  | 103 %  |   |           |               |           | 1<br>1<br>1             | 11/01/06 23:47<br>11/01/06 23:47<br>11/01/06 23:47   | SW846 8260B<br>SW846 8260B<br>SW846 8260B  | 6106005<br>6106005<br>6106005<br>6106005                                  |
| Dibromofluoromethane (78-123%)<br>Toluene-d8 (79-120%)<br>rr: 4-Bromofluorobenzene (75-133%)  | 103 %<br>100 %                                       |   |           |               |           | 1<br>1<br>1             | 11/01/06 23:47<br>11/01/06 23:47<br>11/01/06 23:47   | SW846 8260B<br>SW846 8260B   | 6106005<br>6106005<br>6106005   |
| Dibromofluoromethane (78-123%)<br>Toluene-d8 (79-120%)<br>rr: 4-Bromofluorobenzene (75-133%)<br>actable Petroleum Hydrocarbons  | 103 %<br>100 %<br>97 % <sup>.</sup>                  | OSG   |           |               |           | 1<br>1<br>1<br>1        | 11/01/06 23:47<br>11/01/06 23:47<br>11/01/06 23:47<br>11/01/06 23:47                                     | SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B                         | 6106005<br>6106005<br>6106005<br>6106005<br>6106005                       |
| Dibromofluoromethane (78-123%)<br>Toluene-d8 (79-120%)<br>rr: 4-Bromofluorobenzene (75-133%)<br>actable Petroleum Hydrocarbons  | 103 %<br>100 %<br>97 % <sup>.</sup><br>1490          | QSG<br>QSG  | ug/L      | 373           | 980       | 1<br>1<br>1<br>10       | 11/01/06 23:47<br>11/01/06 23:47<br>11/01/06 23:47<br>11/01/06 23:47<br>10/27/06 20:50                   | SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>NWTPH-Dx             | 6106005<br>6106005<br>6106005<br>6106005<br>6106005<br>6104946            |
| Dibromofluoromethane (78-123%)<br>Toluene-d8 (79-120%)<br>rr: 4-Bromofluorobenzene (75-133%)<br>actable Petroleum Hydrocarbons  | 103 %<br>100 %<br>97 %<br><b>1490</b><br><b>4160</b> | QSG   |           |               |           | 1<br>1<br>1<br>10<br>10 | 11/01/06 23:47<br>11/01/06 23:47<br>11/01/06 23:47<br>11/01/06 23:47<br>10/27/06 20:50<br>10/27/06 20:50 | SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>NWTPH-Dx<br>NWTPH-Dx | 6106005<br>6106005<br>6106005<br>6106005<br>6106005<br>6104946<br>6104946 |
| Dibromofluoromethane (78-123%)<br>Toluene-d8 (79-120%)<br>rr: 4-Bromofluorobenzene (75-133%)<br>actable Petroleum Hydrocarbons<br>)<br>otor Oil<br>o-Terphenyl (51-142%)                                  | 103 %<br>100 %<br>97 % <sup>.</sup><br>1490          |   | ug/L      | 373           | 980       | 1<br>1<br>1<br>10<br>10 | 11/01/06 23:47<br>11/01/06 23:47<br>11/01/06 23:47<br>11/01/06 23:47<br>10/27/06 20:50                   | SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>NWTPH-Dx             | 6106005<br>6106005<br>6106005<br>6106005<br>6106005<br>6104946            |
| Dibromofluoromethane (78-123%)<br>Toluene-d8 (79-120%)<br>rr: 4-Bromofluorobenzene (75-133%)<br>actable Petroleum Hydrocarbons<br>J<br>otor Oil<br>o-Terphenyl (51-142%)<br>ceable Petroleum Hydrocarbons | 103 %<br>100 %<br>97 %<br><b>1490</b><br><b>4160</b> | QSG   | ug/L      | 373           | 980       | 1<br>1<br>1<br>10<br>10 | 11/01/06 23:47<br>11/01/06 23:47<br>11/01/06 23:47<br>11/01/06 23:47<br>10/27/06 20:50<br>10/27/06 20:50 | SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>NWTPH-Dx<br>NWTPH-Dx | 6106005<br>6106005<br>6106005<br>6106005<br>6106005<br>6104946<br>6104946 |
| Dibromofluoromethane (78-123%)<br>Toluene-d8 (79-120%)<br>rr: 4-Bromofluorobenzene (75-133%)<br>actable Petroleum Hydrocarbons<br>)<br>otor Oil<br>o-Terphenyl (51-142%)                                  | 103 %<br>100 %<br>97 %<br><b>1490</b><br><b>4160</b> | QSG   | ug/L      | 373           | 980       | 1<br>1<br>1<br>10<br>10 | 11/01/06 23:47<br>11/01/06 23:47<br>11/01/06 23:47<br>11/01/06 23:47<br>10/27/06 20:50<br>10/27/06 20:50 | SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>SW846 8260B<br>NWTPH-Dx<br>NWTPH-Dx | 6106005<br>6106005<br>6106005<br>6106005<br>6106005<br>6104946<br>6104946 |

mr's ID: NPJ3345-05 (DUPE-1-102306 - Ground Water) Sampled: 10/23/06 00:01

Volatile Organic Compounds by EPA Method 8260B

 $\mathbf{A}_{i}$ 

### Test ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Road Nashville, TN 37204 \* 800-765-0980 \* Fax 615-726-3404

| Client | Acton Mickelson Environmental, Inc. (13785) |
|--------|---|
|        | 5175 Hillsdale Circle, Suite 100            |
|        | El Dorado Hills, CA 95762                   |
| Attn   | Jennifer Guthmiller                         |

Work Order:NPJ3345Project Name:(06) Former Renton Terminal #46-080Project Number:13042.01Received:10/25/06 08:00

|                                       |              |          |              |              | anna an | Dilutior | Analysis       | an an an Carlon Anno an |         |
|---------------------------------------|--------------|----------|--------------|--------------|--|----------|----------------|---|---------|
| Analyte                               | Result       | Flag     | Units        | MDL          | MRL                                      | Factor   | ·              | Method  | Batch   |
| Sample ID: NPJ3345-05 (DUPE-1-        | -102306 - Gr | ound Wa  | iter) - cont | . Sampled:   | 10/23/06 00:01                           |          |                |   |         |
| Selected Volatile Organic Compounds   |              |          |              |              |  |          |                |   |         |
| Benzene                               | 12000        |          | ug/L         | 62.0         | 200                                      | 200      | 11/02/06 04:46 | SW846 8260B   | 6106005 |
| Ethylbenzene                          | 1650         |          | ug/L         | 4.60         | 20.0                                     | 20       | 11/02/06 04:21 | SW846 8260B   | 6106005 |
| Methyl tert-Butyl Ether               | 18.4         |          | ug/L         | 0.310        | 1.00                                     | 1        | 11/02/06 03:56 | SW846 8260B   | 6106005 |
| Toluene                               | 2840         |          | ug/L         | 4.40         | 20.0                                     | 20       | 11/02/06 04:21 | SW846 8260B   | 6106005 |
| Xylenes, total                        | 7420         |          | ug/L         | 8.80         | 60.0                                     | 20       | 11/02/06 04:21 | SW846 8260B   | 6106005 |
| Ethanol                               | ND           |          | ug/L         | 62.0         | 100                                      | 1        | 11/02/06 03:56 | SW846 8260B   | 6106005 |
| Surr: 1,2-Dichloroethane-d4 (62-142%) | 123 %        |          | Ũ            |              |  | 1        | 11/02/06 03:56 | SW846 8260B   | 610600  |
| Surr: Dibromofluoromethane (78-123%)  | 100 %        |          |              |              |  |          |                | SW846 8260B   | 610600. |
| Surr: Toluene-d8 (79-120%)            | 99%          |          |              |              |  | 1        | 11/02/06 03:56 |   | 610600. |
| Surr: 4-Bromofluorobenzene (75-133%)  | 121 %        |          |              |              |  | 1        | 11/02/06 03:56 | SW846 8260B   |         |
|                                       | 121 70       |          |              |              |  | 1        | 11/02/06 03:56 | SW846 8260B   | 610600  |
| Extractable Petroleum Hydrocarbons    |              |          |              |              |  |          |                |   |         |
| Diesel                                | 5890         | QSG      | ug/L         | 183          | 481                                      | 5        | 10/28/06 17:24 | NWTPH-Dx  | 6104946 |
| Motor Oil                             | ND           | QSG      | ug/L         | 183          | 481                                      | 5        | 10/28/06 17:24 | NWTPH-Dx  | 6104946 |
| Surr: o-Terphenyl (51-142%)           | 66 %         |          |              |              |  | 5        | 10/28/06 17:24 | NWTPH-Dx  | 6104940 |
| rgeable Petroleum Hydrocarbons        |              |          |              |              |  | 5        | 10,20,00 17,2, |   |         |
| GRO (C4-C12)                          | 60800        |          | ~            | 40.0         | 2000                                     | •        |                |   |         |
| urr: a,a,a-Trifluorotoluene (63-134%) |              |          | ug/L         | 40.0         | 2000                                     | 20       | 10/28/06 20:51 | NWTPH-Gx  | 6105679 |
| un. a,a,a-mpiaoroioiaene (05-15476)   | 78 %         |          |              |              |  | 20       | 10/28/06 20:51 | NWTPH-Gx  | 6105679 |
| ample ID: NPJ3345-06 (W-1-1023        | 806-TB - Gro | ound Wat | ter) Sampl   | ed: 10/23/06 | 5 09:00                                  |          |                |   |         |
| Selected Volatile Organic Compounds h |              |          |              |              |  |          |                |   |         |
| Benzene                               | ND           |          | ug/L         | 0.310        | 1.00                                     | 1        | 11/01/06 23:22 | SW846 8260B   | 6106005 |
| Ethylbenzene                          | ND           |          | ug/L         | 0.230        | 1.00                                     | 1        | 11/01/06 23:22 | SW846 8260B   | 6106005 |
| Aethyl tert-Butyl Ether               | ND           |          | ug/L         | 0.310        | 1.00                                     | 1        | 11/01/06 23:22 | SW846 8260B   | 6106005 |
| oluene                                | ND           |          | ug/L         | 0.220        | 1.00                                     | 1        | 11/01/06 23:22 | SW846 8260B   | 6106005 |
| Kylenes, total                        | ND           |          | ug/L         | 0.440        | 3.00                                     | 1        | 11/01/06 23:22 | SW846 8260B   | 6106005 |
| Ethanol                               | ND           |          | ug/L         | 62.0         | 100                                      | 1        | 11/01/06 23:22 | SW846 8260B   | 6106005 |
| urr: 1,2-Dichloroethane-d4 (62-142%)  | 118 %        |          | 46.2         |              |  |          |                |   | 6106005 |
| urr: Dibromofluoromethane (78-123%)   | 101 %        |          |              |              |  | -        | 11/01/06 23:22 | SW846 8260B   |         |
| urr: Toluene-d8 (79-120%)             |              |          |              |              |  | _        | 11/01/06 23:22 | SW846 8260B   | 6106005 |
|                                       | 106 %        |          |              |              |  | 1        | 11/01/06 23:22 | SW846 8260B   | 6106005 |
|                                       | 104 %        |          |              |              |  | 1        | 11/01/06 23:22 | SW846 8260B   | 6106005 |
| urr: 4-Bromofluorobenzene (75-133%)   | 104 /0       |          |              |              |  |          |                |   |         |
|                                       | 104 70       |          |              |              |  |          |                |   |         |
| urr: 4-Bromofluorobenzene (75-133%)   | 9.68         | J        | ug/L         | 2.00         | 100                                      | 1        | 10/28/06 21:06 | NWTPH-Gx  | 6105679 |

### Test ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Rcad Nashville, TN 37204 \* 800-765-0980 \* Fax 615-726-3404

Client Acton Mickelson Environmental, Inc. (13785) 5175 Hillsdale Circle, Suite 100 El Dorado Hills, CA 95762 Attn Jennifer Guthmiller

Work Order:NPJ3345Project Name:(06) Former Renton Terminal #46-080Project Number:13042.01Received:10/25/06 08:00

#### SAMPLE EXTRACTION DATA

| Parameter                          | Batch   | Lab Number | Wt/Vol<br>Extracted | Extracted Vol | Date           | Analyst | Extraction<br>Method |
|------------------------------------|---------|------------|---------------------|---------------|----------------|---------|----------------------|
| Extractable Petroleum Hydrocarbons |         |            |                     |               |                |         |                      |
| NWTPH-Dx                           | 6104946 | NPJ3345-01 | 1040.00             | 1.00          | 10/25/06 14:00 | SHJ     | EPA 3510C            |
| NWTPH-Dx                           | 6104946 | NPJ3345-02 | 1040.00             | 1.00          | 10/25/06 14:00 | SHJ     | EPA 3510C            |
| NWTPH-Dx                           | 6104946 | NPJ3345-03 | 1030.00             | 1.00          | 10/25/06 14:00 | SHJ     | EPA 3510C            |
| NWTPH-Dx                           | 6104946 | NPJ3345-04 | 1020.00             | 1.00          | 10/25/06 14:00 | SHJ     | EPA 3510C            |
| NWTPH-Dx                           | 6104946 | NPJ3345-05 | 1040.00             | 1.00          | 10/25/06 14:00 | SHJ     | EPA 3510C            |

#### est neri <u>ca</u> ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Road Nashville, TN 37204 \* 800-765-0980 \* Fax 615-726-3404

Acton Mickelson Environmental, Inc. (13785) ( ent 5175 Hillsdale Circle, Suite 100 El Dorado Hills, CA 95762 Jennifer Guthmiller n

#### NPJ3345 Work Order: Project Name: Project Number: 13042.01 Received: 10/25/06 08:00

(06) Former Renton Terminal #46-080

#### PROJECT QUALITY CONTROL DATA

Blank

| in te   | Blank Value         | Q       | Units | Q.C. Batch | Lab Number   | Analyzed Date/Time |  |
|---|---------------------|---------|-------|------------|--------------|--------------------|--|
| elected Volatile Organic Compo  | ounds by EPA Method | I 8260B |       |            |              |                    |  |
| 106005-BLK1   |                     |         |       |            |              |                    |  |
| B :ene  | < 0.310             |         | ug/L  | 6106005    | 6106005-BLK1 | 11/01/06 22:57     |  |
| E _ Ibenzene  | <0.230              |         | ug/L  | 6106005    | 6106005-BLK1 | 11/01/06 22:57     |  |
| Methyl tert-Butyl Ether   | < 0.310             |         | ug/L  | 6106005    | 6106005-BLK1 | 11/01/06 22:57     |  |
| f ene   | <0.220              |         | ug/L  | 6106005    | 6106005-BLK1 | 11/01/06 22:57     |  |
| K nes, total  | <0.440              |         | ug/L  | 6106005    | 6106005-BLK1 | 11/01/06 22:57     |  |
| Sthanol   | <62.0               |         | ug/L  | 6106005    | 6106005-BLK1 | 11/01/06 22:57     |  |
| urrogate: 1,2-Dichloroethane-d4   | 116%                |         |       | 6106005    | 6106005-BLK1 | 11/01/06 22:57     |  |
| gate: 1,2-Dichloroethane-d4   | 116%                |         |       | 6106005    | 6106005-BLK1 | 11/01/06 22:57     |  |
| un ogate: Dibromofluoromethane  | 101%                |         |       | 6106005    | 6106005-BLK1 | 11/01/06 22:57     |  |
| irrogate: Dibromofluoromethane  | 101%                |         |       | 6106005    | 6106005-BLK1 | 11/01/06 22:57     |  |
| 1. gate: Toluene-d8   | 106%                |         |       | 6106005    | 6106005-BLK1 | 11/01/06 22:57     |  |
| ı. gate: Toluene-d8   | 106%                |         |       | 6106005    | 6106005-BLK1 | 11/01/06 22:57     |  |
| ırrogate: 4-Bromofluorobenzene  | 95%                 |         |       | 6106005    | 6106005-BLK1 | 11/01/06 22:57     |  |
| 1; ate: 4-Bromofluorobenzene  | 95%                 |         |       | 6106005    | 6106005-BLK1 | 11/01/06 22:57     |  |
|   |                     |         |       |            |              |                    |  |
| xtractable Petroleum Hydrocar   | bons                |         |       |            |              |                    |  |
| 104946-BLK1   |                     |         |       |            |              |                    |  |
| n <b>1</b>  | <38.0               |         | ug/L  | 6104946    | 6104946-BLK1 | 10/27/06 14:08     |  |
| 1. Jr Oil   | <38.0               |         | ug/L  | 6104946    | 6104946-BLK1 | 10/27/06 14:08     |  |
| rrogate: o-Terphenyl  | 71%                 |         |       | 6104946    | 6104946-BLK1 | 10/27/06 14:08     |  |
| eable Petroleum Hydrocarbo  | ons                 |         |       |            |              |                    |  |
| 05679-BLK1  |                     |         |       |            |              |                    |  |
| P^ (C4-C12)   | 5.82                | J       | ug/L  | 6105679    | 6105679-BLK1 | 10/28/06 13:36     |  |
| عte: a,a,a-Trifluorotoluene عرمانه عليه عليه عليه عليه عليه عليه عليه علي | 81%                 |         |       | 6105679    | 6105679-BLK1 | 10/28/06 13:36     |  |
| 05679-BLK2  |                     |         |       |            |              |                    |  |
| (C4-C12)  | 12.5                | J       | ug/L  | 6105679    | 6105679-BLK2 | 10/28/06 14:04     |  |
| zate: a,a,a-Trifluorotoluene  | 105%                |         |       | 6105679    | 6105679-BLK2 | 10/28/06 14:04     |  |
| ^5805-BLK1  |                     |         |       |            |              |                    |  |
| (C4-C12)  | 8.27                | J       | ug/L  | 6105805    | 6105805-BLK1 | 10/29/06 09:50     |  |
| ogate: a,a,a-Trifluorotoluene   | 75%                 |         |       | 6105805    | 6105805-BLK1 | 10/29/06 09:50     |  |
| 805-BLK2  |                     |         |       |            |              |                    |  |
| (C4-C12)  | 12.6                | J       | ug/L  | 6105805    | 6105805-BLK2 | 10/29/06 10:21     |  |
| rogate: a,a,a-Trifluorotoluene  | 109%                |         |       | 6105805    | 6105805-BLK2 | 10/29/06 10:21     |  |
|   |                     |         |       |            |              |                    |  |

### Test ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Road Nashville, TN 37204 \* 800-765-0980 \* Fax 615-726-3404

Client Acton Mickelson Environmental, Inc. (13785) 5175 Hillsdale Circle, Suite 100 El Dorado Hills, CA 95762 Attn Jennifer Guthmiller

# Work Order:NPJ3345Project Name:(06) Former Renton Terminal #46-080Project Number:13042.01Received:10/25/06 08:00

#### PROJECT QUALITY CONTROL DATA

#### LCS

| Analyte                           | Known Val.           | Analyzed Val | Q        | Units | % Rec. | Target<br>Range | Batch   | Analyzed<br>Date/Time |
|-----------------------------------|----------------------|--------------|----------|-------|--------|-----------------|---------|-----------------------|
| Selected Volatile Organic Compou  | nds by EPA Method 82 | 60B          |          |       |        |                 |         |                       |
| 6106005-BS1                       |                      |              |          |       |        |                 | -       |                       |
| Benzene                           | 50.0                 | 48.4         |          | ug/L  | 97%    | 80 - 118        | 6106005 | 11/01/06 22:07        |
| Ethylbenzene                      | 50.0                 | 47.1         |          | ug/L  | 94%    | 73 - 134        | 6106005 | 11/01/06 22:07        |
| Methyl tert-Butyl Ether           | 50.0                 | 44.6         |          | ug/L  | 89%    | 69 - 122        | 6106005 | 11/01/06 22:07        |
| Toluene                           | 50.0                 | 46.1         |          | ug/L  | 92%    | 78 - 122        | 6106005 | 11/01/06 22:07        |
| Xylenes, total                    | 150                  | 141          |          | ug/L  | 94%    | 82 - 127        | 6106005 | 11/01/06 22:07        |
| Ethanol                           | 5000                 | 7810         |          | ug/L  | 156%   | 41 - 166        | 6106005 | 11/01/06 22:07        |
| Surrogate: 1,2-Dichloroethane-d4  | 50.0                 | 56.6         |          | Ũ     | 113%   | 62 - 142        | 6106005 | 11/01/06 22:07        |
| Surrogate: 1,2-Dichloroethane-d4  | 50.0                 | 56.6         |          |       | 113%   | 62 - 142        | 6106005 | 11/01/06 22:07        |
| Surrogate: Dibromofluoromethane   | 50.0                 | 51.5         |          |       | 103%   | 78 - 123        | 6106005 | 11/01/06 22:07        |
| Surrogate: Dibromofluoromethane   | 50.0                 | 51.5         |          |       | 103%   | 78 - 123        | 6106005 | 11/01/06 22:07        |
| Surrogate: Toluene-d8             | 50.0                 | 52.7         |          |       | 105%   | 79 - 120        | 6106005 | 11/01/06 22:07        |
| Surrogate: Toluene-d8             | 50.0                 | 52.7         |          |       | 105%   | 79 - 120        | 6106005 | 11/01/06 22:07        |
| Surrogate: 4-Bromofluorobenzene   | 50.0                 | 44.2         |          |       | 88%    | 75 - 133        | 6106005 | 11/01/06 22:07        |
| Surrogate: 4-Bromofluorobenzene   | 50.0                 | 44.2         |          |       | 88%    | 75 - 133        | 6106005 | 11/01/06 22:07        |
| Extractable Petroleum Hydrocarbo  | ons                  |              |          |       |        |                 |         |                       |
| 5104946-BS1                       |                      |              |          |       |        |                 |         |                       |
| Diesel                            | 1000                 | 878          |          | ug/L  | 88%    | 56 - 116        | 6104946 | 10/27/06 14:27        |
| Surrogate: o-Terphenyl            | 20.0                 | 16.9         |          | 0     | 84%    | 51 - 142        | 6104946 | 10/27/06 14:27        |
| Purgeable Petroleum Hydrocarbon   | S                    |              |          |       |        |                 |         |                       |
| \$105679-BS2                      |                      |              |          |       |        |                 |         |                       |
| GRO (C4-C12)                      | 1000                 | 715          | A-01, L2 | ug/L  | 72%    | 74 - 121        | 6105679 | 10/29/06 04:12        |
| Surrogate: a,a,a-Trifluorotoluene | 30.0                 | 32.4         | <b>,</b> | U     | 108%   | 63 - 134        | 6105679 | 10/29/06 04:12        |
| ថ105805-BS1                       |                      |              |          |       |        |                 |         |                       |
| GRO (C4-C12)                      | 1000                 | 824          |          | ug/L  | 82%    | 74 - 121        | 6105805 | 10/29/06 14:47        |
| Surrogate: a,a,a-Trifluorotoluene | 30.0                 | 21.8         |          |       | 73%    | 63 - 134        | 6105805 | 10/29/06 14:47        |

### Test ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Road Nashville, TN 37204 \* 800-765-0980 \* Fax 615-726-3404

Client Acton Mickelson Environmental, Inc. (13785) 5175 Hillsdale Circle, Suite 100 El Dorado Hills, CA 95762 Attn Jennifer Guthmiller 
 Work Order:
 NPJ3345

 Project Name:
 (06) Former Renton Terminal #46-080

 Project Number:
 13042.01

 Received:
 10/25/06 08:00

#### PROJECT QUALITY CONTROL DATA LCS Dup

| Analyte                             | Orig. Val. | Duplicate | Q | Units | Spike<br>Conc | % Rec. | Target<br>Range | RPD | Limit | Batch   | Sample<br>Duplicated | Analyzed<br>Date/Time |
|-------------------------------------|------------|-----------|---|-------|---------------|--------|-----------------|-----|-------|---------|----------------------|-----------------------|
| Purgeable Petroleum Hydrocarbons    |            |           |   |       |               |        |                 |     |       |         |                      |                       |
| <b>6105679-BSD2</b><br>GRO (C4-C12) |            | 882       |   | ug/L  | 1000          | 88%    | 74 - 121        | 21  | 33    | 6105679 |                      | 10/29/06 04:27        |
| Surrogate: a,a,a-Trifluorotoluene   |            | 21.8      |   | ug/L  | 30.0          | 73%    | 63 - 134        |     |       | 6105679 |                      | 10/29/06 04:27        |
| 3105805-BSD1                        |            |           |   |       |               |        |                 |     |       |         |                      |                       |
| GRO (C4-C12)                        |            | 1050      |   | ug/L  | 1000          | 105%   | 74 - 121        | 24  | 33    | 6105805 |                      | 10/29/06 15:02        |
| Surrogate: a,a,a-Trifluorotoluene   |            | 34.5      |   | ug/L  | 30.0          | 115%   | 63 - 134        |     |       | 6105805 |                      | 10/29/06 15:02        |

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2960 Foster Creighton Road Nashville, TN 37204 \* 800-765-0980 \* Fax 615-726-3404

ANALYTICAL TESTING CORPORATION

Acton Mickelson Environmental, Inc. (13785) Client 5175 Hillsdale Circle, Suite 100 El Dorado Hills, CA 95762 Jennifer Guthmiller Attn

Work Order: NPJ3345 Project Name: (06) Former Renton Terminal #46-080 13042.01 Project Number: 10/25/06 08:00 Received:

| PROJECT QUALITY CONTROL DATA<br>Matrix Spike      |            |             |   |              |              |             |                      |                    |                          |                                  |
|---|------------|-------------|---|--------------|--------------|-------------|----------------------|--------------------|--------------------------|----------------------------------|
| Analyte   | Orig. Val. | MS Val      | Q | Units        | Spike Conc   | % Rec.      | Target<br>Range      | Batch              | Sample<br>Spiked         | Analyzed<br>Date/Time            |
| Purgeable Petroleum Hydrocarbons<br>6105679-MS2   |            |             |   |              |              |             |                      |                    |                          |                                  |
| GRO (C4-C12)<br>Surrogate: a,a,a-Trifluorotoluene | 10.9       | 952<br>33.0 |   | ug/L<br>ug/L | 1000<br>30.0 | 94%<br>110% | 57 - 150<br>63 - 134 | 6105679<br>6105679 | NPJ3797-04<br>NPJ3797-04 | 10/29/06 03:11<br>10/29/06 03:11 |

## **IestAmerica**

2960 Foster Creighton Road Nashville, TN 37204 \* 800-765-0980 \* Fax 615-726-3404

Client Acton Mickelson Environmental, Inc. (13785) 5175 Hillsdale Circle, Suite 100 El Dorado Hills, CA 95762 Attn Jennifer Guthmiller Work Order:NPJ3345Project Name:(06) Former Renton Terminal #46-080Project Number:13042.01Received:10/25/06 08:00

#### PROJECT QUALITY CONTROL DATA

Matrix Spike Dup

| Analyte  | Orig. Val. | Duplicate | Q | Units | Spike<br>Conc | % Rec. | Target<br>Range | RPD | Limit | Batch   | Sample<br>Duplicated | Analyzed<br>Date/Time |
|--|------------|-----------|---|-------|---------------|--------|-----------------|-----|-------|---------|----------------------|-----------------------|
| Purgeable Petroleum Hydrocarbons<br>6105679-MSD2 | ·*         |           |   |       |               |        |                 |     |       |         |                      |                       |
| GRO (C4-C12)                                     | 10.9       | 957       |   | ug/L  | 1000          | 95%    | 57 - 150        | 0.5 | 33    | 6105679 | NPJ3797-04           | 10/29/06 03:26        |
| Surrogate: a,a,a-Trifluorotoluene                |            | 21.9      |   | ug/L  | 30.0          | 73%    | 63 - 134        |     |       | 6105679 | NPJ3797-04           | 10/29/06 03:26        |

## Test ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Road Nashville, TN 37204 \* 800-765-0980 \* Fax 615-726-3404

 ( :nt Acton Mickelson Environmental, Inc. (13785)
 5175 Hillsdale Circle, Suite 100

 El Dorado Hills, CA 95762
 Jennifer Guthmiller

[ 'America - Nashville, TN

Work Order:NPJ3345Project Name:(06) Former Renton Terminal #46-080Project Number:13042.01Received:10/25/06 08:00

#### **CERTIFICATION SUMMARY**

| Method      | Matrix | AIHA | Nelac | Oregon |  |
|-------------|--------|------|-------|--------|--|
| NWTPH-Dx    | Water  | N/A  | X     | Х      |  |
| NWTPH-Gx    | Water  | N/A  | х     | Х      |  |
| SW846 8260B | Water  | N/A  | Х     | Х      |  |



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Work Order:NPJ3345Project Name:(06) Former Renton Terminal #46-080Project Number:13042.01Received:10/25/06 08:00

#### NELAC CERTIFICATION SUMMARY

TestAmerica Analytical - Nashville does not hold NELAC certifications for the following analytes included in this report

<u>Method</u> NWTPH-Gx <u>Matrix</u> Water

Analyte GRO (C4-C12)

## Test ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Road Nashville, TN 37204 \* 800-765-0980 \* Fax 615-726-3404

| <b>C1</b> <sup>2</sup> | Asten Misteleon Fundava (1.1. (12000)       |
|------------------------|---|
| Client                 | Acton Mickelson Environmental, Inc. (13785) |
|                        | 5175 Hillsdale Circle, Suite 100            |
|                        | El Dorado Hills, CA 95762                   |
| Attn                   | Jennifer Guthmiller                         |

Work Order:NPJ3345Project Name:(06) Former Renton Terminal #46-080Project Number:13042.01Received:10/25/06 08:00

#### DATA QUALIFIERS AND DEFINITIONS

- A-01 The surrogate recovery was outside the laboratory historical limits but within method QC guidelines.
- J Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). Concentrations within this range are estimated.
- L2 Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was below acceptance limits.
- QSG Silica Gel clean-up performed on extracts.
- Z10 Surrogate outside laboratory historical limits but within method guidelines. No effect on data.
- **Z3** The sample required a dilution due to the nature of the sample matrix. Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

#### **METHOD MODIFICATION NOTES**

| ANALYTICAL TESTING CORPORATION<br>Nashville Division   |  |
|--|--|
| COOLER RECEIPT FORM BC#  | NPJ3345  |
| Cooler Received/Opened On 10/25/06 8:00<br>1. Indicate the Airbill Tracking Number (last 4 digits for Fedex only) and Name | e of Courier below: <u>3730</u>  |
| Fed-Ex UPS Velocity DHL Rout   |  |
| 2. Temperature of representative sample or temperature blank when opened: (indicate IR Gun ID#)                            | <u> </u>   |
| NA A00466 A00750 A01124 10015  | 00 101282 102594   |
| 3. Were custody seals on outside of cooler?  |  |
| a. If yes, how many and where:   | ·  |
| 4. Were the seals intact, signed, and dated correctly?   |  |
| 5. Were custody papers inside cooler?  |  |
| I certify that I opened the cooler and answered questions 1-5 (intial)   | Jr.  |
| 6. Were custody seals on containers: YES NO  | and Intact YES NO N  |
| were these signed, and dated correctly?  |  |
| 7. What kind of packing material used? Bubblewrap Peanu  | ts Vermiculite Foam Ins  |
| Plastic bag Paper Other  | None   |
|  | ect) Dry ice Other N   |
| 9. Did all containers arrive in good condition ( unbroken)?  | <b>^</b>   |
| 10. Were all container labels complete (#, date, signed, pres., etc)?  | $\sim$   |
| 11. Did all container labels and tags agree with custody papers?   | $\bigcirc$   |
| 12. a. Were VOA vials received?  | $\mathbf{v}$   |
| b. Was there any observable head space present in any VOA vial?  |  |
| I certify that I unloaded the cooler and answered questions 6-12 (initial)   | H.   |
| 13. a. On preserved bottles did the pH test strips suggest that preservation reac  | n  |
| b. Did the bottle labels indicate that the correct preservatives were used   |  |
| If preservation in-house was needed, record standard ID of preservativ   |  |
| 14. Was residual chlorine present?   |  |
| certify that I checked for chlorine and pH as per SOP and answered questions 1   | This is a second s |
| 15. Were custody papers properly filled out (ink, signed, etc)?  |  |
| 16. Did you sign the custody papers in the appropriate place?  | P <sub>2</sub>   |
| 7. Were correct containers used for the analysis requested?  | $\mathcal{O}$  |
| 8. Was sufficient amount of sample sent in each container?   |  |
| certify that I entered this project into LIMS and answered questions 15-18 (intia  |  |
| certify that I attached a label with the unique LIMS number to each container (i   |  |
| 9. Were there Non-Conformance issues at login YES NO Was a PIPE gener  |  |

BIS = Broken in shipment Cooler Receipt Form

.

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LF-1 End of Form

| ACOUNTROPHEN  |
|---|
| ANALYTICAL TESTING CORPORATION  |
| Nashville Division<br>COOLER RECEIPT FORM BC#   |
| COOLER RECEIPT FORM BC#   |
|   |
| Cooler Received/Opened On: October 25, 2006 @ 08:00<br>1. Indicate the Airbill Tracking Number (last 4 digits for Fedex only) and Name of Courier below: 32 P |
| Fed-Ry UPS Valasity   |
| Misc.   |
| 2. Temperature of representative sample or temperature blank when opened: <u>-0.5</u> Degrees Celsius (indicate IR Gun ID#)                                   |
| NA A00466 A00750 A01124 100190 101282 Raynger ST  |
| 3. Were custody seals on outside of cooler?   |
| a. If yes, how many and where:  |
| 4. Were the seals intact, signed, and dated correctly?  |
| 5. Were custody papers inside cooler?   |
| I certify that I opened the cooler and answered questions 1-5 (intial).   |
| 6. Were custody seals on containers:  |
| were these signed, and dated correctly?   |
| 7. What kind of packing material words n in   |
| Plastia hag Du Qui  |
|   |
| 8. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None  |
| 9. Did all containers arrive in good condition ( unbroken)?   |
| 10. Were all container labels complete (#, date, signed, pres., etc)?NA   |
| 11. Did all container labels and tags agree with custody papers?  |
| 12. a. Were VOA vials received?   |
| b. Was there any observable head space present in any VOA vial?   |
| I certify that I unloaded the cooler and answered questions 6-12 (intial)   |
| 13. a. On preserved bottles did the pH test strips suggest that preservation reached the correct pH level? YESNO.   |
| b. Did the bottle labels indicate that the correct preservatives were used  |
| If preservation in-house was needed, record standard ID of preservative used here   |
| 14. Was residual chlorine present?  |
| I certify that I checked for chlorine and pH as per SOP and answered questions 13-14 (initial)  |
| 15. Were custody papers properly filled out (ink, signed, etc)?   |
| 16. Did you sign the custody papers in the appropriate place?NA   |
| 17. Were correct containers used for the analysis requested?  |
| 18. Was sufficient amount of sample sent in each container?   |
| Leertify that I entered this project into LIMS and answered questions 15-18 (initial)   |
| I certify that I attached a label with the unique LIMS number to each container (intial)  |
| 19. Were there Non-Conformance issues at login YES NO Was a PIPE generated YES NO #   |
| BIS = Broken in shipment<br>Cooler Receipt Form   |

|   | ickelson •   |  |   | inc. <sub>®</sub>           | Stan             | dard T                            | AT        |                      |              | Pag           | je                   | 0            | f                   |       |       | Chai | in of      | f Cu       | istoc     | ły      | 5289    | )        |
|---|--|--|---|-----------------------------|------------------|-----------------------------------|-----------|----------------------|--------------|---------------|----------------------|--------------|---------------------|-------|-------|------|------------|------------|-----------|---------|---------|----------|
|   | tody and Anal  | ysis Req   | uest Form   |                             | RUS              | H TAT                             | [         | 24                   | hr.          | TAT           |                      |              | 48 h                | r. TA | T     |      | <b>D</b> 7 | 72 h       | r. TA     | T       | 📑 5 da  | ay TAT   |
| Geotracker Glo<br>Send Results to:<br>5175 Hillsdale Cir<br>El Dorado Hills, C<br>(916) 939-7550, F/<br>Attn.: Jennific | cle, Suite 100<br>A 95762<br>AX (916) 939-7570   | <i>≿</i> Samp <i>×</i> Electr           Geotr <i>×</i> Raw I | ninary Fax Result<br>le Receipt/ Log-In C<br>onic Data Deliverab<br>acker EDF<br>Data Deliverables<br>vith Verbal Results |                             |                  | Matrix                            | Container | Number of Containers | Preservative | 9-2019<br>201 | My Contraction       | A CONTRACTOR | Here and the second |       | \     |      |            | \<br> <br> | //        |         |         | <b>,</b> |
| Lab ID<br>(LAB USE ONLY)  | Field Point ID   | S  | ample ID  | Date<br>Collected           | Time<br>Collecte |                                   |           |                      |              |               |                      |              |                     |       |       |      |            |            |           |         | Comment | ts       |
|   | w-1  | W-1- 1   | 62306   | 10/23/06                    | 1225             | - G-W                             | V<br>68   | 62                   | HL<br>HC     | χ             | X                    | X            | N                   | P     | 53    | 34   | 5-         | (          |           | Ετ      | = Етн,  | ANOL     |
|   | W-Z  | W-2-   | 102306  | 10/23/06                    | 1245             | - 62                              | V<br>GB   | 62                   | HC<br>HC     | X             | . K                  | Х            |                     |       |       |      |            | 2          |           |         |         |          |
|   | 6-6  | B-6-1  | 02306   | 10/23/06                    | 1315             |                                   | 110       | 16                   | HC<br>HC     | ×             | ×                    | ¥            |                     |       |       |      | -          | 3          |           |         |         |          |
|   | D-6  | D-6-1  | 02306   | 10/23/06                    | 1340             | 1                                 | 1.1       | 6<br>2               | HC<br>HC     | $\varkappa$   | X                    | X            |                     |       |       |      | (          | 4          |           |         |         |          |
|   |  |  | NPJ3345<br>11/08/06 23:59   |                             |                  |                                   |           |                      |              |               |                      |              |                     |       |       |      |            |            |           |         |         |          |
|   | QAQC   | Тёмр   | BLANK   | 10/23/06                    | 0900             | RW                                | 10        | 1                    |              |               |                      |              |                     |       |       |      |            |            | X         |         |         |          |
|   | QAQC   | DUPE-1   | - 1-2306  | 10/23/06                    | روينافاطيون      | · GW                              | V<br>GB   | 62                   | HC           | X             | ٤                    | X            | X                   |       |       |      |            | 5          |           |         |         |          |
|   | QAQC   | W-1-1  | >2306 -TB   | 10/23/06                    | 0900             | RW                                | V         | 4                    | HC           | X             | X                    |              |                     |       |       |      |            | 6          |           |         |         |          |
| Signature   |  | $\sim$   | Date  | Time                        |                  | Signat                            | ure       |                      |              | 1             | <br>                 |              | 1                   | i     |       |      |            | Dati       | e /       |         | Tim     | ie       |
| Relinquished by:  | nn   |  | 10-23-06  | 150                         | 0                | Relinc                            | luish     | ed b                 | y:           | 12/1          | hy                   | (ja          | tinfs               | le    |       |      |            | 12         | e<br>1/12 | ,       | 12:00   |          |
| Received by:  | tog  |  | 10/23/06  | 1500                        | 1                | Recei                             | ved l     | oy:                  |              | 12            | 10                   | 1257         | 106                 | 824   | 0 4-0 | Ľ    |            |            |           |         |         |          |
| Relinquished by:  |  |  |   |                             |                  | Relino                            | luish     | ed b                 | y:           |               |                      |              |                     |       |       |      |            |            |           |         |         |          |
| Received by:  |  | -  |   |                             |                  | Recei                             | ved l     | oy:                  |              |               |                      |              |                     |       |       |      |            |            |           |         |         |          |
| RW - Reagent Water; S -<br>Container: GB - Glass Bo<br>P - Polythethylene; GJ - G                                       | rinking Water; SW - Surfac<br>Soil; SE - Sediment; SV - S<br>ttle (Amber); V - 40 ml VOA<br>lass Jar, SC - Summa Cani<br>S - Sulfuric Acid; HC - Hydro | Soil Vapor; AA - A<br>Vial; BT, ST, PT<br>ister; TD - Tedlar | mbient Air; WS - Waste (S<br>- Brass, Steel, and Plasti   | Solid); O - Othe<br>c Tube; | "<br>P           | Project N<br>Project N<br>Sampled | lumbe     | er:                  | 13           | 042           | -, 0 <u>,</u><br>2.0 | İ            | rt ol<br>iJsur      |       |       | Rece |            |            | 'n        | Signatu | - N     | 1        |

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# APPENDIX D

# **Data Validation Reports**

| Project Name:<br>Project Location:<br>Project Number:<br>Project Activity: | Former Renton Terminal #46-080<br>2423 Lind Avenue, Renton, Washington<br>13042.01<br>Annual Ground Water Monitoring, 2006 |
|--|--|
| riojeet retivity.  | Annual Ground water Monitoring, 2000   |
| Laboratories:  | TestAmerica Analytical, Nashville, Tennessee   |
| Sample Deliverable Group:  | NPF1179  |
| Sample Date:   | 6/6/06   |
| Sample Matrix Types:   | Water  |
| Samples:   | See attached Table 1.  |
| Qualified Data:  | See attached Table 2.  |
| Report Date Final:   | 11/30/06   |
| Review By:   | G. M. Willis   |

Guidance documents include:

- 1. U.S. EPA, January 2005, US EPA Contract Laboratory Program, National Functional Guidelines for Superfund Organic Methods Review, Draft Final, USEPA-540-R-04-009.
- 2. U.S. EPA, October 1999, US EPA Contract Laboratory Program, National Functional Guidelines for Organic Data Review, EPA 540/R-99/008.
- 3. U.S. EPA, July 2002, US EPA Contract Laboratory Program, National Functional Guidelines for Inorganic Data Review, EPA 540/R-01/008.

## **ABBREVIATIONS USED IN THIS REPORT**

| BTEX   | benzene, toluene, ethylbenzene, xylenes |
|--------|---|
| EQL    | estimated quantitation limit            |
| GRO    | gasoline range organics                 |
| LCS    | laboratory control sample               |
| MDL    | method detection limit                  |
| MRL    | method reporting limit                  |
| MS/MSD | matrix spike/matrix spike duplicate     |
| MTBE   | methyl tertiary butyl ether             |
| NA     | not analyzed                            |
| QAP    | quality assurance plan                  |
| RL     | reporting limit                         |
| RPD    | relative percent difference             |
| °C     | degrees Celsius                         |
| %REC   | percent recovery                        |

Project Name: Project Number: Sample Deliverable Group: Sample Date: Report Date Final:

## **ORGANIC DATA**

## I. SUMMARY OF PROBLEMS/ COMMENTS

Overall, the data quality is good and the data are acceptable for use. A portion of the data has been qualified due to method blank contamination and surrogate spike recovery.

Completeness: The analytical results are within typical ranges for data usability.

#### **II. DATA VERIFICATION REVIEW**

SAMPLE COLLECTION AND CHAIN OF CUSTODY. REMARKS: Several samples had limited quantities available and not all analyses were performed.

SAMPLE RECEIPT, INCLUDING CONDITION AND PRESERVATION, REMARKS: No exceptions noted. Sample log indicates samples were received at 5.8 and 6°C, and intact.

SAMPLE PREPARATION, SAMPLE CLEANUP METHOD, REMARKS: No exceptions noted. Samples for NWTPH-DX diesel and motor oil were prepared by silica gel cleanup as specified.

SAMPLE ANALYSIS, INCLUDING ANALYTICAL METHOD AND PROJECT SPECIFIC REPORTING LIMITS:

| Method Analysis              | Matrix | No.     | No.        | Note     |
|------------------------------|--------|---------|------------|----------|
|                              |        | Samples | Exceptions |          |
| NWTPH-Gx (GRO)               | Water  | 9       | 0          | Used MDL |
| NWTPH-Dx (diesel, motor oil) | Water  | 7       | 0          | Used MDL |
| 8260B (BTEX, MTBE)           | Water  | 9       | 0          | Used MDL |

Sample HA10-060606 was not submitted for TPH-Dx analysis.

| Page | 3 | of | 9 |
|------|---|----|---|
|      |   |    |   |

| Project Name:             | Former Renton Terminal #46-080 |
|---------------------------|--------------------------------|
| Project Number:           | 13042.01                       |
| Sample Deliverable Group: | NPF1179                        |
| Sample Date:              | 6/6/06                         |
| Report Date Final:        | 11/30/06                       |

## **III. SAMPLE HOLDING TIMES (water only)**

| Method Analysis              | No.<br>Samples | No. Late |
|------------------------------|----------------|----------|
| NWTPH-Gx (GRO)               | 9              | 4        |
| NWTPH-Dx (diesel, motor oil) | 7              | 0        |
| 8260B (BTEX, MTBE)           | 9              | 0        |

**REMARKS**:

Initial analysis was within holding time. Reanalysis for the required dilution was one day past holding time. Samples were adequately preserved; no data was affected or qualified.

## IV. LABORATORY CONTROL SAMPLES (water only)

| Method Analysis              | Result |
|------------------------------|--------|
| NWTPH-Gx (GRO)               | A      |
| NWTPH-Dx (diesel, motor oil) | A      |
| 8260B (BTEX, MTBE)           | A      |

A - Acceptable – all criteria met.

P - Provisional – some criteria not met; data useable. See remarks.

U- Unacceptable - criteria not met; data unusable. See remarks.

REMARKS: None.

| Project Name:             | Former Renton Terminal #46-080 |
|---------------------------|--------------------------------|
| Project Number:           | 13042.01                       |
| Sample Deliverable Group: | NPF1179                        |
| Sample Date:              | 6/6/06                         |
| Report Date Final:        | 11/30/06                       |

#### V. METHOD BLANK ANALYSIS (water only)

| Method Analysis              | Result |
|------------------------------|--------|
| NWTPH-Gx (GRO)               | A      |
| NWTPH-Dx (diesel, motor oil) | Р      |
| 8260B (BTEX, MTBE)           | А      |

- A Acceptable no contaminants greater than minimum detection limits; no interference with sample results.
- P Provisional contaminants present but minimal interference with sample results.
- U Unacceptable gross contamination, too much interference to use data for certain components or the entire fraction.

REMARKS: Method blanks were contaminated as shown below:

Motor oil was detected in the method blank at 69.0  $\mu$ g/l. Five samples had detections that were less than five times the contaminant level and were qualified "u", undetected.

#### VI. SURROGATE SPIKE RESULTS (water only)

| Method Analysis              | No. Samples | No. Samples "J" | No. Samples "R" |
|------------------------------|-------------|-----------------|-----------------|
| NWTPH-Gx (GRO)               | 9           | 3               | 0               |
| NWTPH-Dx (diesel, motor oil) | 7           | 0               | 0               |
| 8260B (BTEX, MTBE)           | 9           | 0               | 0               |

#### **REMARKS:**

The %REC for the surrogate a,a,a-trifluorotoluene was greater than acceptable criteria in three samples. Positive detections were affected and qualified "j".

| Page | 5 | of 9 |  |
|------|---|------|--|
|      |   |      |  |

| 80 |
|----|
|    |
|    |
|    |
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|    |

## VII. MATRIX SPIKE RESULTS (water only)

| Method Analysis              | No.       | No. out of | No. <10% |
|------------------------------|-----------|------------|----------|
|                              | Compounds | Criteria   | Recovery |
| NWTPH-Gx (GRO)               | NA        | 0          | 0        |
| NWTPH-Dx (diesel, motor oil) | NA        | 0          | 0        |
| 8260B (BTEX, MTBE)           | 6         | 3          | 3        |

#### **REMARKS:**

MS was not performed for diesel, motor oil, or GRO. Results for benzene, ethylbenzene, and xylenes had extremely low %REC due to sample matrix effects. LCS/LCSD data was considered for data validation purposes.

## VIII. MATRIX SPIKE DUPLICATE RESULTS (water only)

| Method Analysis              | No.<br>Compounds | No. out of<br>Criteria |
|------------------------------|------------------|------------------------|
| NWTPH-Gx (GRO)               | NA               | 0                      |
| NWTPH-Dx (diesel, motor oil) | NA               | 0                      |
| 8260B (BTEX, MTBE)           | 6                | 3                      |

#### **REMARKS**:

MSD was not performed for diesel, motor oil, or GRO. Results for benzene, ethylbenzene, and xylenes had extremely low %REC due to sample matrix effects. LCS/LCSD data was considered for data validation purposes.

| Page 6 of 9 | Page | 6 | of | 9 |  |
|-------------|------|---|----|---|--|
|-------------|------|---|----|---|--|

| mer Renton Terminal #46-080 |
|-----------------------------|
| 2.01                        |
| 1179                        |
| )6                          |
| 0/06                        |
|                             |

## IX. FIELD DUPLICATE SAMPLE RESULTS (water only)

| Method Analysis              | Result |
|------------------------------|--------|
| NWTPH-Gx (GRO)               | NA     |
| NWTPH-Dx (diesel, motor oil) | NA     |
| 8260B (BTEX, MTBE)           | NA     |

- A Acceptable the same compounds were identified in the primary and duplicate samples with minor differences in concentration.
- P Provisional the same compounds were identified in the primary and duplicate samples with major differences in concentration. These discrepancies could cause the data to be useful only for limited purposes.
- U Unacceptable differences were found in compound identifications in the primary and duplicate samples. These discrepancies could cause the results for this fraction to be used for limited purposes or be considered unusable.

#### **REMARKS**:

No field duplicates were collected in this sample group.

## X. TRIP BLANK SAMPLE RESULTS (water only)

| Method Analysis    | Result |
|--------------------|--------|
| NWTPH-Gx (GRO)     | A      |
| 8260B (BTEX, MTBE) | A      |

- A Acceptable No contaminants greater than minimum detection limits; no interference with sample results.
- P Provisional Contaminants present but minimal interference with sample results.
- U Unacceptable Gross contamination, too much interference to use data for certain components or the entire fraction.

REMARKS: Trip blanks were contaminated as shown below: None.

Project Name:FormeProject Number:13042.Sample Deliverable Group:NPF11Sample Date:6/6/06Report Date Final:11/30/0

Former Renton Terminal #46-080 13042.01 NPF1179 6/6/06 11/30/06

#### XI. EQUIPMENT BLANK SAMPLE RESULTS

Equipment blanks were not collected. Sampling equipment consisted of dedicated tubing at each sampling point and a peristaltic pump.

#### XII. SUMMARY OF QUALIFIED DATA

Data that have been assigned qualifiers as part of this review are listed on the attached Table 2.

| Project Name:             | Former Renton Terminal #46-080 |
|---------------------------|--------------------------------|
| Project Number:           | 13042.01                       |
| Sample Deliverable Group: | NPF1179                        |
| Sample Date:              | 6/6/06                         |
| Report Date Final:        | 11/30/06                       |
|                           |                                |

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| TABLE 1                                    |               |
|--|---------------|
| SAMPLES INCLUDED IN THIS QUALITY ASSURANCE | <b>REVIEW</b> |

| Location | Sample ID   | Sample<br>Date | Matrix | Туре                        | Lab ID     | Receipt Date | ID on COC    |
|----------|-------------|----------------|--------|-----------------------------|------------|--------------|--------------|
| B5       | B5-060606   | 6/6/06         | water  | Normal Environmental Sample | NPF1179-01 | 6/8/06       | B-5-060606   |
| B6       | B6-060606   | 6/6/06         | water  | Normal Environmental Sample | NPF1179-02 | 6/8/06       | B-6-060606   |
| W2       | W2-060606   | 6/6/06         | water  | Normal Environmental Sample | NPF1179-03 | 6/8/06       | W-2-060606   |
| B1       | B1-060606   | 6/6/06         | water  | Normal Environmental Sample | NPF1179-04 | 6/8/06       | B-1-060606   |
| HA10     | HA10-060606 | 6/6/06         | water  | Normal Environmental Sample | NPF1179-05 | 6/8/06       | HA-10-060606 |
| HA2      | HA2-060606  | 6/6/06         | water  | Normal Environmental Sample | NPF1179-06 | 6/8/06       | HA-2-060606  |
| HA9      | HA9-060606  | 6/6/06         | water  | Normal Environmental Sample | NPF1179-07 | 6/8/06       | HA-9-060606  |
| W3       | W3-060606   | 6/6/06         | water  | Normal Environmental Sample | NPF1179-08 | 6/8/06       | W-3-060606   |
|          | TB-1-060606 | 6/6/06         | water  | Trip Blank                  | NPF1179-09 | 6/8/06       | TB-1-060606  |

Project Name:Former Renton Terminal #46-080Project Number:13042.01Sample Deliverable Group:NPF1179Sample Date:6/6/06Report Date Final:11/30/06

| Sample ID  | Lab ID     | Method   | Analysis<br>Date | Chemical  | Result | Units | Detect Flag | Lab<br>Oualifier | Review<br>Qualifier | MDL  | MRL  |
|------------|------------|----------|------------------|-----------|--------|-------|-------------|------------------|---------------------|------|------|
| B5-060606  | NPF1179-01 | NWTPH-Gx | 6/20/06          | GRO       | 4540   | μg/l  | Y           |                  | i                   | 40   | 100  |
| B1-060606  | NPF1179-04 | NWTPH-Gx | 6/20/06          | GRO       | 3330   | μg/1  | Y           |                  | i                   | 40   | 100  |
| HA9-060606 | NPF1179-07 | NWTPH-Gx | 6/20/06          | GRO       | 3750   | μg/1  | Y           |                  | i                   | 40   | 100  |
| B5-060606  | NPF1179-01 | NWTPH-Dx | 6/18/06          | motor oil | 271    | μg/l  | Y           |                  | u                   | 35.7 | 93.9 |
| W2-060606  | NPF1179-03 | NWTPH-Dx | 6/18/06          | motor oil | 283    | μg/l  | Y           | J                | u                   | 178  | 469  |
| HA2-060606 | NPF1179-06 | NWTPH-Dx | 6/18/06          | motor oil | 313    | μg/1  | Y           | J                | u                   | 178  | 469  |
| HA9-060606 | NPF1179-07 | NWTPH-Dx | 6/18/06          | motor oil | 337    | μg/l  | Y           |                  | u                   | 35.7 | 93.9 |
| W3-060606  | NPF1179-08 | NWTPH-Dx | 6/18/06          | motor oil | 153    | μg/1  | Y           |                  | u                   | 35.7 | 93.9 |

## TABLE 2SUMMARY OF QUALIFIED DATA

Page 9 of 9

Project Name: Project Location: Project Number: Project Activity: Former Renton Terminal #46-080 2423 Lind Avenue, Renton, Washington 13042.01 Annual Ground Water Monitoring, 2006

Laboratories:

TestAmerica Analytical, Nashville, Tennessee

Sample Deliverable Group: Sample Date: Sample Matrix Types: Samples: Qualified Data: NPF1612 6/6/06 & 6/7/06 Water See attached Table 1. See attached Table 2.

Report Date Final:11/30/06Review By:G. M. Willis

Guidance documents include:

- 1. U.S. EPA, January 2005, US EPA Contract Laboratory Program, National Functional Guidelines for Superfund Organic Methods Review, Draft Final, USEPA-540-R-04-009.
- 2. U.S. EPA, October 1999, US EPA Contract Laboratory Program, National Functional Guidelines for Organic Data Review, EPA 540/R-99/008.
- 3. U.S. EPA, July 2002, US EPA Contract Laboratory Program, National Functional Guidelines for Inorganic Data Review, EPA 540/R-01/008.

#### **ABBREVIATIONS USED IN THIS REPORT**

| BTEX   | benzene, toluene, ethylbenzene, xylenes |
|--------|---|
| EQL    | estimated quantitation limit            |
| GRO    | gasoline range organics                 |
| LCS    | laboratory control sample               |
| MDL    | method detection limit                  |
| MRL    | method reporting limit                  |
| MS/MSD | matrix spike/matrix spike duplicate     |
| MTBE   | methyl tertiary butyl ether             |
| NA     | not analyzed                            |
| QAP    | quality assurance plan                  |
| RL     | reporting limit                         |
| RPD    | relative percent difference             |
| °C     | degrees Celsius                         |
| %REC   | percent recovery                        |

Project Name: Project Number: Sample Deliverable Group: Sample Date: Report Date Final:

#### **ORGANIC DATA**

## I. SUMMARY OF PROBLEMS/ COMMENTS

Overall, the data quality is good and the data are acceptable for use. A portion of the data has been qualified due to surrogate spike recovery.

Completeness: The analytical results are within typical ranges for data usability.

#### **II. DATA VERIFICATION REVIEW**

SAMPLE COLLECTION AND CHAIN OF CUSTODY. REMARKS: Several samples had limited quantities available and not all analyses were performed.

SAMPLE RECEIPT, INCLUDING CONDITION AND PRESERVATION, REMARKS: No exceptions noted. Sample log indicates samples were received at 6°C and intact.

SAMPLE PREPARATION, SAMPLE CLEANUP METHOD, REMARKS: No exceptions noted. Samples for NWTPH-DX diesel and motor oil were prepared by silica gel cleanup as specified.

SAMPLE ANALYSIS, INCLUDING ANALYTICAL METHOD AND PROJECT SPECIFIC REPORTING LIMITS:

| Method Analysis              | Matrix | No.     | No.        | Note     |
|------------------------------|--------|---------|------------|----------|
|                              |        | Samples | Exceptions |          |
| NWTPH-Gx (GRO)               | Water  | 16      | 0          | Used MDL |
| NWTPH-Dx (diesel, motor oil) | Water  | 15      | 0          | Used MDL |
| 8260B (BTEX, MTBE)           | Water  | 16      | 0          | Used MDL |

#### **REMARKS**:

HA14-060706 was not submitted for NWTPH-DX. HA10-060706 was submitted for NWTPH-Dx only.

| Project Name:             | Former Renton Terminal #46-080 |
|---------------------------|--------------------------------|
| Project Number:           | 13042.01                       |
| Sample Deliverable Group: | NPF1612                        |
| Sample Date:              | 6/6/06 & 6/7/06                |
| Report Date Final:        | 11/30/06                       |

## III. SAMPLE HOLDING TIMES (water only)

| Method Analysis              | No.     | No. Late |
|------------------------------|---------|----------|
|                              | Samples |          |
| NWTPH-Gx (GRO)               | 16      | 0        |
| NWTPH-Dx (diesel, motor oil) | 15      | 0        |
| 8260B (BTEX, MTBE)           | 16      | 0        |

REMARKS:

None.

## IV. LABORATORY CONTROL SAMPLES (water only)

| Method Analysis              | Result |
|------------------------------|--------|
| NWTPH-Gx (GRO)               | A      |
| NWTPH-Dx (diesel, motor oil) | A      |
| 8260B (BTEX, MTBE)           | A      |

A - Acceptable – all criteria met.

P - Provisional – some criteria not met; data useable. See remarks.

U - Unacceptable - criteria not met; data unusable. See remarks.

REMARKS: None.

NPF1612

11/30/06

6/6/06 & 6/7/06

## V. METHOD BLANK ANALYSIS (water only)

| Method Analysis              | Result |
|------------------------------|--------|
| NWTPH-Gx (GRO)               | А      |
| NWTPH-Dx (diesel, motor oil) | А      |
| 8260B (BTEX, MTBE)           | A      |

- A Acceptable no contaminants greater than minimum detection limits; no interference with sample results.
- P Provisional contaminants present but minimal interference with sample results.
- U Unacceptable gross contamination, too much interference to use data for certain components or the entire fraction.

REMARKS: Method blanks were contaminated as shown below: None.

#### VI. SURROGATE SPIKE RESULTS (water only)

| Method Analysis              | No. Samples | No. Samples "J" | No. Samples "R" |
|------------------------------|-------------|-----------------|-----------------|
| NWTPH-Gx (GRO)               | 16          | 2               | 0               |
| NWTPH-Dx (diesel, motor oil) | 15          | 0               | 0               |
| 8260B (BTEX, MTBE)           | 16          | 0               | 0               |

**REMARKS**:

The %REC for the surrogate o-terphenyl less than acceptable criteria in three samples. Positive detections in two samples for diesel were affected and qualified "j".

Sample Deliverable Group:

Project Number:

Report Date Final:

Sample Date:

| Project Name:             | Former Renton Terminal #46-080 |
|---------------------------|--------------------------------|
| Project Number:           | 13042.01                       |
| Sample Deliverable Group: | NPF1612                        |
| Sample Date:              | 6/6/06 & 6/7/06                |
| Report Date Final:        | 11/30/06                       |

### VII. MATRIX SPIKE RESULTS (water only)

| Method Analysis              | No.<br>Compounds | No. out of<br>Criteria | No. <10%<br>Recovery |
|------------------------------|------------------|------------------------|----------------------|
| NWTPH-Gx (GRO)               | NA               | 0                      | 0                    |
| NWTPH-Dx (diesel, motor oil) | NA               | 0                      | 0                    |
| 8260B (BTEX, MTBE)           | 6                | 3                      | 0                    |

#### **REMARKS**:

MS was not performed for diesel, motor oil, or GRO. Results for benzene, toluene and xylenes, total, had extremely low %REC due to sample matrix effects. LCS/LCSD data was to validate data.

## VIII. MATRIX SPIKE DUPLICATE RESULTS (water only)

| Method Analysis              | No.<br>Compounds | No. out of<br>Criteria |
|------------------------------|------------------|------------------------|
| NWTPH-Gx (GRO)               | NA               | 0                      |
| NWTPH-Dx (diesel, motor oil) | NA               | 0                      |
| 8260B (BTEX, MTBE)           | 6                | 3                      |

#### **REMARKS**:

MS was not performed for diesel, motor oil, or GRO. Results for benzene, toluene and xylenes, total, had extremely low %REC due to sample matrix effects. LCS/LCSD data was to validate data.

Project Name: Project Number: Sample Deliverable Group: Sample Date: Report Date Final: Former Renton Terminal #46-080 13042.01 NPF1612 6/6/06 & 6/7/06 11/30/06

## IX. FIELD DUPLICATE SAMPLE RESULTS (water only)

| Method Analysis              | Result |
|------------------------------|--------|
| NWTPH-Gx (GRO)               | А      |
| NWTPH-Dx (diesel, motor oil) | А      |
| 8260B (BTEX, MTBE)           | А      |

- A Acceptable the same compounds were identified in the primary and duplicate samples with minor differences in concentration.
- P Provisional the same compounds were identified in the primary and duplicate samples with major differences in concentration. These discrepancies could cause the data to be useful only for limited purposes.
- U Unacceptable differences were found in compound identifications in the primary and duplicate samples. These discrepancies could cause the results for this fraction to be used for limited purposes or be considered unusable.

#### **REMARKS:**

Original Sample ID: HA1-060706 Duplicate Sample ID: DUPE-1-060706

None.

#### X. TRIP BLANK SAMPLE RESULTS (water only)

| Method Analysis    | Result |
|--------------------|--------|
| NWTPH-Gx (GRO)     | A      |
| 8260B (BTEX, MTBE) | A      |

- A Acceptable No contaminants greater than minimum detection limits; no interference with sample results.
- P Provisional Contaminants present but minimal interference with sample results.
- U Unacceptable Gross contamination, too much interference to use data for certain components or the entire fraction.

REMARKS: Trip blanks were contaminated as shown below: None.

Project Name: Project Number: Sample Deliverable Group: Sample Date: Report Date Final: Former Renton Terminal #46-080 13042.01 NPF1612 6/6/06 & 6/7/06 11/30/06

## XI. EQUIPMENT BLANK SAMPLE RESULTS

Equipment blanks were not collected. Sampling equipment consisted of dedicated tubing at each sampling point and a peristaltic pump.

## XII. SUMMARY OF QUALIFIED DATA

Data that have been assigned qualifiers as part of this review are listed on the attached Table 2.

Project Name:Former Renton Terminal #46-080Project Number:13042.01Sample Deliverable Group:NPF1612Sample Date:6/6/06 & 6/7/06Report Date Final:11/30/06

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# TABLE 1 SAMPLES INCLUDED IN THIS QUALITY ASSURANCE REVIEW

| Location | Sample ID     | Sample<br>Date | Matrix | Туре                        | Lab ID     | Receipt Date | ID on COC     |
|----------|---------------|----------------|--------|-----------------------------|------------|--------------|---------------|
| TB-2     | TB-2-060606   | 6/6/06         | water  | Trip Blank                  | NPF1612-01 | 6/13/06      | TB-2-060606   |
| W4       | W4-060606     | 6/6/06         | water  | Normal Environmental Sample | NPF1612-02 | 6/13/06      | W4-060606     |
| HA11     | HA11-060706   | 6/7/06         | water  | Normal Environmental Sample | NPF1612-03 | 6/13/06      | HA11-060706   |
| HA3      | HA3-060706    | 6/7/06         | water  | Normal Environmental Sample | NPF1612-04 | 6/13/06      | HA3-060706    |
| HA12     | HA12-060706   | 6/7/06         | water  | Normal Environmental Sample | NPF1612-05 | 6/13/06      | HA12-060706   |
| HA7      | HA7-060706    | 6/7/06         | water  | Normal Environmental Sample | NPF1612-06 | 6/13/06      | HA7-060706    |
| HA-6     | HA6-060706    | 6/7/06         | water  | Normal Environmental Sample | NPF1612-07 | 6/13/06      | HA6-060706    |
| D4       | D4-060706     | 6/7/06         | water  | Normal Environmental Sample | NPF1612-08 | 6/13/06      | D4-060706     |
| HA14     | HA14-060706   | 6/7/06         | water  | Normal Environmental Sample | NPF1612-09 | 6/13/06      | HA14-060706   |
| HA13     | HA13-060706   | 6/7/06         | water  | Normal Environmental Sample | NPF1612-10 | 6/13/06      | HA13-060706   |
| HA5      | HA5-060706    | 6/7/06         | water  | Normal Environmental Sample | NPF1612-11 | 6/13/06      | HA5-060706    |
| HA10     | HA10-060706   | 6/7/06         | water  | Normal Environmental Sample | NPF1612-12 | 6/13/06      | HA10-060706   |
| W1       | W1-060706     | 6/7/06         | water  | Normal Environmental Sample | NPF1612-13 | 6/13/06      | W1-060706     |
| D6       | D6-060706     | 6/7/06         | water  | Normal Environmental Sample | NPF1612-14 | 6/13/06      | D6-060706     |
| D7       | D7-060706     | 6/7/06         | water  | Normal Environmental Sample | NPF1612-15 | 6/13/06      | D7-060706     |
| HA1      | HA1-060706    | 6/7/06         | water  | Normal Environmental Sample | NPF1612-16 | 6/13/06      | HA1-060706    |
| HA1      | DUPE-1-060706 | 6/7/06         | water  | Field Duplicate             | NPF1612-17 | 6/13/06      | DUPE-1-060706 |

Project Name:Former Renton Terminal #46-080Project Number:13042.01Sample Deliverable Group:NPF1612Sample Date:6/6/06 & 6/7/06Report Date Final:11/30/06

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# TABLE 2SUMMARY OF QUALIFIED DATA

| Sample ID   | Lab ID     | Method   | Analysis<br>Date | Chemical | Result | Units | Detect Flag | Lab<br>Qualifier | Review<br>Qualifier | MDL  | MRL |
|-------------|------------|----------|------------------|----------|--------|-------|-------------|------------------|---------------------|------|-----|
| HA11-060706 | NPF1612-03 | NWPTH-Dx | 6/23/06          | Diesel   | 3320   | μg/L  | Y           | -                | i                   | 73.8 | 194 |
| HA6-060706  | NPF1612-07 | NWPTH-Dx | 6/23/06          | Diesel   | 3700   | μg/L  | · Y         |                  | i                   | 72.4 | 190 |

| Project Name:             | Former Renton Terminal #46-080               |
|---------------------------|--|
| Project Location:         | 2423 Lind Avenue, Renton, Washington         |
| Project Number:           | 13042.01                                     |
| Project Activity:         | Annual Ground Water Monitoring, 2006         |
| Laboratories:             | TestAmerica Analytical, Nashville, Tennessee |
| Sample Deliverable Group: | NPJ3797                                      |
| Sample Date:              | 10/23/06 & 10/24/06                          |
| Sample Matrix Types:      | Water (organic only)                         |
| Samples:                  | See attached Table 1.                        |
| Qualified Data:           | See attached Table 2.                        |
| Report Date Final:        | 1/16/07                                      |
| Review By:                | G. M. Willis                                 |

Guidance documents include:

- 1. U.S. EPA, January 2005, US EPA Contract Laboratory Program, National Functional Guidelines for Superfund Organic Methods Review, Draft Final, USEPA-540-R-04-009.
- 2. U.S. EPA, October 1999, US EPA Contract Laboratory Program, National Functional Guidelines for Organic Data Review, EPA 540/R-99/008.
- 3. U.S. EPA, July 2002, US EPA Contract Laboratory Program, National Functional Guidelines for Inorganic Data Review, EPA 540/R-01/008.

## **ABBREVIATIONS USED IN THIS REPORT**

| benzene, toluene, ethylbenzene, xylenes |
|---|
| estimated quantitation limit            |
| gasoline range organics                 |
| laboratory control sample               |
| method detection limit                  |
| method reporting limit                  |
| matrix spike/matrix spike duplicate     |
| methyl tertiary butyl ether             |
| not analyzed                            |
| reporting limit                         |
| relative percent difference             |
| degrees Celsius                         |
| percent recovery                        |
|   |

Project Name: Project Number: Sample Deliverable Group: Sample Date: Report Date Final: Former Renton Terminal #46-080 13042.01 NPJ3797 10/23/06 & 10/24/06 1/16/07

#### **ORGANIC DATA**

## I. SUMMARY OF PROBLEMS/ COMMENTS

Overall, the data quality is good and the data are acceptable for use. A portion of the results have been qualified due to method blank contamination, trip blank contamination, and surrogate spike recoveries.

Completeness: The analytical results are within typical ranges for data usability.

## **II. DATA VERIFICATION REVIEW**

SAMPLE COLLECTION AND CHAIN OF CUSTODY. REMARKS: Several samples had limited quantities available and not all analyses were performed.

SAMPLE RECEIPT, INCLUDING CONDITION AND PRESERVATION, REMARKS: No exceptions noted. Sample log indicates samples were received cold and intact.

SAMPLE PREPARATION, SAMPLE CLEANUP METHOD, REMARKS: No exceptions noted. Samples for NWTPH-DX diesel and motor oil were prepared by silica gel cleanup as specified.

SAMPLE ANALYSIS, INCLUDING ANALYTICAL METHOD AND PROJECT SPECIFIC REPORTING LIMITS:

| Method Analysis              | Matrix | No.     | No.        | Note     |
|------------------------------|--------|---------|------------|----------|
|                              |        | Samples | Exceptions |          |
| NWTPH-Gx (GRO)               | Water  | 20      | 0          | Used MDL |
| NWTPH-Dx (diesel, motor oil) | Water  | 16      | 0          | Used MDL |
| 8260B (BTEX, MTBE, ethanol)  | Water  | 20      | 0          | Used MDL |

#### **REMARKS:**

Samples HA10-102406, HA2-102406 and HA14-102406 were not submitted for NWTPH-Dx.

| Project Name:             | Former Renton Terminal #46-080 |
|---------------------------|--------------------------------|
| Project Number:           | 13042.01                       |
| Sample Deliverable Group: | NPJ3797                        |
| Sample Date:              | 10/23/06 & 10/24/06            |
| Report Date Final:        | 1/16/07                        |

## **III. SAMPLE HOLDING TIMES (water only)**

| Method Analysis              | No.<br>Samples | No. Late |
|------------------------------|----------------|----------|
| NWTPH-Gx (GRO)               | 20             | 0        |
| NWTPH-Dx (diesel, motor oil) | 16             | 0        |
| 8260B (BTEX, MTBE, ethanol)  | 20             | 0        |

REMARKS:

None.

## IV. LABORATORY CONTROL SAMPLES (water only)

| Method Analysis              | Result |
|------------------------------|--------|
| NWTPH-Gx (GRO)               | А      |
| NWTPH-Dx (diesel, motor oil) | A      |
| 8260B (BTEX, MTBE, ethanol)  | A      |

A - Acceptable – all criteria met.

P - Provisional – some criteria not met; data useable. See remarks.

U - Unacceptable - criteria not met; data unusable. See remarks.

#### **REMARKS**:

The %REC for GRO in two out of six QA/QC samples was slightly lower than acceptable criteria. Samples were not affected or qualified.

| Project Name:             | Former Renton Terminal #46-080 |
|---------------------------|--------------------------------|
| Project Number:           | 13042.01                       |
| Sample Deliverable Group: | NPJ3797                        |
| Sample Date:              | 10/23/06 & 10/24/06            |
| Report Date Final:        | 1/16/07                        |

#### V. METHOD BLANK ANALYSIS (water only)

| Method Analysis              | Result |
|------------------------------|--------|
| NWTPH-Gx (GRO)               | P      |
| NWTPH-Dx (diesel, motor oil) | A      |
| 8260B (BTEX, MTBE, ethanol)  | А      |

- A Acceptable no contaminants greater than minimum detection limits; no interference with sample results.
- P Provisional contaminants present but minimal interference with sample results.
- U Unacceptable gross contamination, too much interference to use data for certain components or the entire fraction.

REMARKS: Method blanks were contaminated as shown below:

The method blank for GRO was performed eight times. GRO was detected in all of the method blank samples between 5.62 and 12.5  $\mu$ g/l. Three samples had detections that were less than five times the blank results. Those samples were qualified "u", undetected.

#### VI. SURROGATE SPIKE RESULTS (water only)

| Method Analysis              | No. Samples | No. Samples "J" | No. Samples "R" |
|------------------------------|-------------|-----------------|-----------------|
| NWTPH-Gx (GRO)               | 20          | 0               | 0               |
| NWTPH-Dx (diesel, motor oil) | 16          | 2               | 0               |
| 8260B (BTEX, MTBE, ethanol)  | 20          | 0               | 0               |

#### **REMARKS:**

The %REC for the surrogate o-terphenyl, the analyte that represents diesel and motor oil, was less than acceptable criteria in two samples. The positive detections for diesel in two samples and the positive detection for motor oil in one sample were qualified "j", estimated. The non-detect result for one sample was qualified "uj", estimated non-detected.

| Project Name:             | Former Renton Terminal #46-080 |
|---------------------------|--------------------------------|
| Project Number:           | 13042.01                       |
| Sample Deliverable Group: | NPJ3797                        |
| Sample Date:              | 10/23/06 & 10/24/06            |
| Report Date Final:        | 1/16/07                        |

## VII. MATRIX SPIKE RESULTS (water only)

| Method Analysis              | No.<br>Compounds | No. out of<br>Criteria | No. <10%<br>Recovery |  |
|------------------------------|------------------|------------------------|----------------------|--|
| NWTPH-Gx (GRO)               | 1                | 0                      | 0                    |  |
| NWTPH-Dx (diesel, motor oil) | NA               | NA                     | 0                    |  |
| 8260B (BTEX, MTBE, ethanol)  | NA               | NA                     | 0                    |  |

#### **REMARKS**:

MS was not performed for diesel, motor oil, BTEX or MTBE, due to insufficient sample volume.

## VIII. MATRIX SPIKE DUPLICATE RESULTS (water only)

| Method Analysis              | No.<br>Compounds | No. out of<br>Criteria |
|------------------------------|------------------|------------------------|
| NWTPH-Gx (GRO)               | 1                | 0                      |
| NWTPH-Dx (diesel, motor oil) | NA               | NA                     |
| 8260B (BTEX, MTBE, ethanol)  | NA               | NA                     |

**REMARKS**:

MS was not performed for diesel, motor oil, BTEX or MTBE, due to insufficient sample volume.

Project Name: Project Number: Sample Deliverable Group: Sample Date: Report Date Final: Former Renton Terminal #46-080 13042.01 NPJ3797 10/23/06 & 10/24/06 1/16/07

## IX. FIELD DUPLICATE SAMPLE RESULTS (water only)

| Method Analysis              | Result |
|------------------------------|--------|
| NWTPH-Gx (GRO)               | А      |
| NWTPH-Dx (diesel, motor oil) | А      |
| 8260B (BTEX, MTBE, ethanol)  | А      |

- A Acceptable the same compounds were identified in the primary and duplicate samples with minor differences in concentration.
- P Provisional the same compounds were identified in the primary and duplicate samples with major differences in concentration. These discrepancies could cause the data to be useful only for limited purposes.
- U Unacceptable differences were found in compound identifications in the primary and duplicate samples. These discrepancies could cause the results for this fraction to be used for limited purposes or be considered unusable.

#### **REMARKS:**

Primary Sample ID: W3-102306 (NPJ3739-11) Duplicate Sample ID: DUPE-2-102406 (NPJ3797-19)

None.

#### X. TRIP BLANK SAMPLE RESULTS (water only)

| Method Analysis             | Result |
|-----------------------------|--------|
| NWTPH-Gx (GRO)              | Р      |
| 8260B (BTEX, MTBE, ethanol) | А      |

- A Acceptable No contaminants greater than minimum detection limits; no interference with sample results.
- P Provisional Contaminants present but minimal interference with sample results.
- U Unacceptable Gross contamination, too much interference to use data for certain components or the entire fraction.

REMARKS: Trip blanks were contaminated as shown below:

GRO contamination was detected in the trip blank at 9.85  $\mu$ g/l. Similar levels of GRO were detected in the method blanks. Samples with less than five times the detection in the trip blank or method blank were qualified "u", undetected. See section V., page 4.

Project Name: Project Number: Sample Deliverable Group: Sample Date: Report Date Final: Former Renton Terminal #46-080 13042.01 NPJ3797 10/23/06 & 10/24/06 1/16/07

## XI. EQUIPMENT BLANK SAMPLE RESULTS

Equipment blanks were not collected. Sampling equipment consisted of dedicated tubing at each sampling point and a peristaltic pump.

## XII. SUMMARY OF QUALIFIED DATA

Data that have been assigned qualifiers as part of this review are listed on the attached Table 2.

DATA VALIDATION KET OKTProject Name:Former Renton Terminal #46-080Project Number:13042.01Sample Deliverable Group:NPJ3797Sample Date:10/23/06 & 10/24/06Report Date Final:1/16/07

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| TABLE 1                 |                            |  |  |  |  |
|-------------------------|----------------------------|--|--|--|--|
| SAMPLES INCLUDED IN THI | S QUALITY ASSURANCE REVIEW |  |  |  |  |

| Location | Sample ID    | Sample<br>Date | Matrix | Туре                        | Lab ID     | Receipt Date | ID on COC     |
|----------|--------------|----------------|--------|-----------------------------|------------|--------------|---------------|
| D7       | D7-102406    | 10/24/06       | water  | Normal Environmental Sample | NPJ3797-01 | 10/27/06     | D-7-102406    |
| B2       | B2-102306    | 10/23/06       | water  | Normal Environmental Sample | NPJ3797-02 | 10/27/06     | B-2-102306    |
| B5       | B5-102306    | 10/23/06       | water  | Normal Environmental Sample | NPJ3797-03 | 10/27/06     | B-5-102306    |
| HA1      | HA1-102406   | 10/24/06       | water  | Normal Environmental Sample | NPJ3797-04 | 10/27/06     | HA-1-102406   |
| HA11     | HA11-102406  | 10/24/06       | water  | Normal Environmental Sample | NPJ3797-05 | 10/27/06     | HA-11-102406  |
| HA10     | HA10-102406  | 10/24/06       | water  | Normal Environmental Sample | NPJ3797-06 | 10/27/06     | HA-10-102406  |
| HA9      | HA9-102406   | 10/24/06       | water  | Normal Environmental Sample | NPJ3797-07 | 10/27/06     | HA-9-102406   |
| HA2      | HA2-102406   | 10/24/06       | water  | Normal Environmental Sample | NPJ3797-08 | 10/27/06     | HA-2-102406   |
| B2       | B2-102306-TB | 10/23/06       | water  | Trip Blank                  | NPJ3797-09 | 10/27/06     | В-2-102306-ТВ |
| HA4      | HA4-102406   | 10/24/06       | water  | Normal Environmental Sample | NPJ3797-10 | 10/27/06     | HA-4-102406   |
| W3       | W3-102406    | 10/24/06       | water  | Normal Environmental Sample | NPJ3797-11 | 10/27/06     | W-3-102406    |
| W4       | W4-102406    | 10/24/06       | water  | Normal Environmental Sample | NPJ3797-12 | 10/27/06     | W-4-102406    |
| HA14     | HA14-102406  | 10/24/06       | water  | Normal Environmental Sample | NPJ3797-13 | 10/27/06     | HA-14-102406  |
| HA13     | HA13-102406  | 10/24/06       | water  | Normal Environmental Sample | NPJ3797-14 | 10/27/06     | HA-13-102406  |
| HA5      | HA5-102406   | 10/24/06       | water  | Normal Environmental Sample | NPJ3797-15 | 10/27/06     | HA-5-102406   |
| HA7      | HA7-102406   | 10/24/06       | water  | Normal Environmental Sample | NPJ3797-16 | 10/27/06     | HA-7-102406   |
| HA12     | HA12-102406  | 10/24/06       | water  | Normal Environmental Sample | NPJ3797-17 | 10/27/06     | HA-12-102406  |

| Project Name:             | Former Renton Terminal #46-080 |
|---------------------------|--------------------------------|
| Project Number:           | 13042.01                       |
| Sample Deliverable Group: | NPJ3797                        |
| Sample Date:              | 10/23/06 & 10/24/06            |
| Report Date Final:        | 1/16/07                        |

| Location | Sample ID     | Sample<br>Date | Matrix | Туре                        | Lab ID     | Receipt Date | ID on COC     |
|----------|---------------|----------------|--------|-----------------------------|------------|--------------|---------------|
| HA6      | HA6-102406    | 10/24/06       | water  | Normal Environmental Sample | NPJ3797-18 | 10/27/06     | HA-6-102406   |
| W3       | DUPE-2-102406 | 10/24/06       | water  | Field Duplicate             | NPJ3797-19 | 10/27/06     | DUPE-2-102406 |
| B1       | B1-102406     | 10/24/06       | water  | Normal Environmental Sample | NPJ3797-20 | 10/27/06     | B-1-102406    |

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Project Name:Former Renton Terminal #46-080Project Number:13042.01Sample Deliverable Group:NPJ3797Sample Date:10/23/06 & 10/24/06Report Date Final:1/16/07

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| Sample ID    | Lab ID     | Method   | Analysis<br>Date | Chemical  | Result | Units | Detect<br>Flag | Lab<br>Qualifier | Review<br>Oualifier | MDL  | MRL  |
|--------------|------------|----------|------------------|-----------|--------|-------|----------------|------------------|---------------------|------|------|
| D-7-102406   | NPJ3797-01 | NWTPH-Gx | 11/3/06          | GRO       | 56.2   | µg/l  | Y              | J                | u                   | 2.00 | 100  |
| HA-1-102406  | NPJ3797-04 | NWTPH-Gx | 10/29/06         | GRO       | 10.9   | μg/1  | Y              | J                | u                   | 2.00 | 100  |
| HA-12-102406 | NPJ3797-17 | NWTPH-Gx | 11/3/06          | GRO       | 58.2   | μg/l  | Y              | J                | u                   | 2.00 | 100  |
| HA-7-102406  | NPJ3797-16 | NWTPH-Dx | 11/4/06          | diesel    | 1040   | μg/1  | Y              |                  | i                   | 36.2 | 95.2 |
| HA-7-102406  | NPJ3797-16 | NWTPH-Dx | 11/4/06          | motor oil | 408    | μg/l  | Y              |                  | i                   | 36.2 | 95.2 |
| HA-6-102406  | NPJ3797-18 | NWTPH-Dx | 11/4/06          | diesel    | 2670   | μg/l  | Y              |                  | i                   | 71.4 | 188  |
| HA-6-102406  | NPJ3797-18 | NWTPH-Dx | 11/4/06          | motor oil | ND     | μg/1  | N              |                  | ui                  | 71.4 | 188  |

## TABLE 2SUMMARY OF QUALIFIED DATA

| Project Name:<br>Project Location:<br>Project Number:<br>Project Activity: | Former Renton Terminal #46-080<br>2423 Lind Avenue, Renton, Washington<br>13042.01<br>Annual Ground Water Monitoring, 2006 |
|--|--|
| Laboratories:  | TestAmerica Analytical, Nashville, Tennessee   |
| Sample Deliverable Group:  | NPJ3345  |
| Sample Date:   | 10/23/06   |
| Sample Matrix Types:   | Water (organic only)   |
| Samples:   | See attached Table 1.  |
| Qualified Data:  | None.  |
| Report Date Final:   | 1/16/07  |
| Review By:   | G. M. Willis   |

Guidance documents include:

- 1. U.S. EPA, January 2005, US EPA Contract Laboratory Program, National Functional Guidelines for Superfund Organic Methods Review, Draft Final, USEPA-540-R-04-009.
- 2. U.S. EPA, October 1999, US EPA Contract Laboratory Program, National Functional Guidelines for Organic Data Review, EPA 540/R-99/008.
- 3. U.S. EPA, July 2002, US EPA Contract Laboratory Program, National Functional Guidelines for Inorganic Data Review, EPA 540/R-01/008.

#### **ABBREVIATIONS USED IN THIS REPORT**

| BTEX   | benzene, toluene, ethylbenzene, xylenes |
|--------|---|
| EQL    | estimated quantitation limit            |
| GRO    | gasoline range organics                 |
| LCS    | laboratory control sample               |
| MDL    | method detection limit                  |
| MRL    | method reporting limit                  |
| MS/MSD | matrix spike/matrix spike duplicate     |
| MTBE   | methyl tertiary butyl ether             |
| NA     | not analyzed                            |
| RL     | reporting limit                         |
| RPD    | relative percent difference             |
| °C     | degrees Celsius                         |
| %REC   | percent recovery                        |

Project Name: Project Number: Sample Deliverable Group: Sample Date: Report Date Final:

#### **ORGANIC DATA**

### I. SUMMARY OF PROBLEMS/ COMMENTS

Overall, the data quality is good and the data are acceptable for use.

Completeness: The analytical results are within typical ranges for data usability.

### **II. DATA VERIFICATION REVIEW**

SAMPLE COLLECTION AND CHAIN OF CUSTODY. REMARKS: No exceptions noted.

SAMPLE RECEIPT, INCLUDING CONDITION AND PRESERVATION, REMARKS: No exceptions noted. Sample log indicates samples were received cold and intact.

SAMPLE PREPARATION, SAMPLE CLEANUP METHOD, REMARKS: No exceptions noted. Samples for NWTPH-DX diesel and motor oil were prepared by silica gel cleanup as specified.

SAMPLE ANALYSIS, INCLUDING ANALYTICAL METHOD AND PROJECT SPECIFIC REPORTING LIMITS:

| Method Analysis              | Matrix | No.<br>Samples | No.<br>Exceptions | Note     |
|------------------------------|--------|----------------|-------------------|----------|
| NWTPH-Gx (GRO)               | Water  | 6              | 0                 | Used MDL |
| NWTPH-Dx (diesel, motor oil) | Water  | 5              | 0                 | Used MDL |
| 8260B (BTEX, MTBE, ethanol)  | Water  | 6              | 0                 | Used MDL |

REMARKS: None.

| Project Name:             | Former Renton Terminal #46-080 |
|---------------------------|--------------------------------|
| Project Number:           | 13042.01                       |
| Sample Deliverable Group: | NPJ3345                        |
| Sample Date:              | 10/23/06                       |
| Report Date Final:        | 1/16/07                        |

### **III. SAMPLE HOLDING TIMES (water only)**

| Method Analysis              | No.     | No. Late |
|------------------------------|---------|----------|
|                              | Samples |          |
| NWTPH-Gx (GRO)               | 6       | 0        |
| NWTPH-Dx (diesel, motor oil) | . 5     | 0        |
| 8260B (BTEX, MTBE, ethanol)  | 6       | 0        |

**REMARKS**:

None.

### IV. LABORATORY CONTROL SAMPLES (water only)

| Method Analysis              | Result |
|------------------------------|--------|
| NWTPH-Gx (GRO)               | A      |
| NWTPH-Dx (diesel, motor oil) | Α      |
| 8260B (BTEX, MTBE, ethanol)  | A      |

A - Acceptable – all criteria met.

P - Provisional - some criteria not met; data useable. See remarks.

U - Unacceptable - criteria not met; data unusable. See remarks.

**REMARKS:** None.

| 1 4 2 5 4 01 0 | f 8 | of | 4 | Page |
|----------------|-----|----|---|------|
|----------------|-----|----|---|------|

| Project Name:             | Former Renton Terminal #46-080 |
|---------------------------|--------------------------------|
| Project Number:           | 13042.01                       |
| Sample Deliverable Group: | NPJ3345                        |
| Sample Date:              | 10/23/06                       |
| Report Date Final:        | 1/16/07                        |

#### V. METHOD BLANK ANALYSIS (water only)

| Method Analysis              | Result |
|------------------------------|--------|
| NWTPH-Gx (GRO)               | A      |
| NWTPH-Dx (diesel, motor oil) | A      |
| 8260B (BTEX, MTBE, ethanol)  | A      |

- A Acceptable no contaminants greater than minimum detection limits; no interference with sample results.
- P Provisional contaminants present but minimal interference with sample results.
- U Unacceptable gross contamination, too much interference to use data for certain components or the entire fraction.

REMARKS: Method blanks were contaminated as shown below:

GRO was detected in each of the four the method blanks with detections between 5.82 and 12.6  $\mu$ g/l. All results were greater than five times the blank results; no samples were affected or qualified.

#### VI. SURROGATE SPIKE RESULTS (water only)

| Method Analysis              | No. Samples | No. Samples "J" | No. Samples "R" |
|------------------------------|-------------|-----------------|-----------------|
| NWTPH-Gx (GRO)               | 6           | 0               | 0               |
| NWTPH-Dx (diesel, motor oil) | - 5         | 0               | 0               |
| 8260B (BTEX, MTBE, ethanol)  | 6           | 0               | 0               |

REMARKS: None.

| Project Name:             | Former Renton Terminal #46-080 |
|---------------------------|--------------------------------|
| Project Number:           | 13042.01                       |
| Sample Deliverable Group: | NPJ3345                        |
| Sample Date:              | 10/23/06                       |
| Report Date Final:        | 1/16/07                        |

#### VII. MATRIX SPIKE RESULTS (water only)

| Method Analysis              | No.<br>Compounds | No. out of<br>Criteria | No. <10%<br>Recovery |
|------------------------------|------------------|------------------------|----------------------|
| NWTPH-Gx (GRO)               | 1                | 0                      | 0                    |
| NWTPH-Dx (diesel, motor oil) | NA               |                        | 0                    |
| 8260B (BTEX, MTBE, ethanol)  | NA               |                        | 0                    |

#### **REMARKS:**

MS was not performed for diesel, motor oil, BTEX or MTBE.

### VIII. MATRIX SPIKE DUPLICATE RESULTS (water only)

| Method Analysis              | No.<br>Compound<br>s | No. out of<br>Criteria   |
|------------------------------|----------------------|--|
| NWTPH-Gx (GRO)               | 1                    | 0  |
| NWTPH-Dx (diesel, motor oil) | NA                   |  |
| 8260B (BTEX, MTBE, ethanol)  | NA                   | Galardinada (faran gayan oldun dalah dalah dalah giran dalam dalah dalah dalah dalah dalah dalah dalah dalah d |

#### **REMARKS**:

MSD was not performed for diesel, motor oil, BTEX or MTBE.

| Page | 6 | of | 8 |
|------|---|----|---|
|      |   |    |   |

| Project Name:             | Former Renton Terminal #46-080 |
|---------------------------|--------------------------------|
| Project Number:           | 13042.01                       |
| Sample Deliverable Group: | NPJ3345                        |
| Sample Date:              | 10/23/06                       |
| Report Date Final:        | 1/16/07                        |
|                           |                                |

#### IX. FIELD DUPLICATE SAMPLE RESULTS (water only)

| Method Analysis              | Result |
|------------------------------|--------|
| NWTPH-Gx (GRO)               | A      |
| NWTPH-Dx (diesel, motor oil) | A      |
| 8260B (BTEX, MTBE, ethanol)  | A      |

- A Acceptable the same compounds were identified in the primary and duplicate samples with minor differences in concentration.
- P Provisional the same compounds were identified in the primary and duplicate samples with major differences in concentration. These discrepancies could cause the data to be useful only for limited purposes.
- U Unacceptable differences were found in compound identifications in the primary and duplicate samples. These discrepancies could cause the results for this fraction to be used for limited purposes or be considered unusable.

#### **REMARKS:**

Primary Sample ID: W-2-102306 (NPJ3345-02) Duplicate Sample ID: DUPE-1-102306 (NPJ3345-05)

None.

#### X. TRIP BLANK SAMPLE RESULTS (water only)

| Method Analysis             | Result |
|-----------------------------|--------|
| NWTPH-Gx (GRO)              | Α      |
| 8260B (BTEX, MTBE, ethanol) | Α      |

- A Acceptable No contaminants greater than minimum detection limits; no interference with sample results.
- P Provisional Contaminants present but minimal interference with sample results.
- U Unacceptable Gross contamination, too much interference to use data for certain components or the entire fraction.

REMARKS: Trip blanks were contaminated as shown below:

GRO was detected in the trip blank at 9.68  $\mu$ g/l. All samples had detections greater than five times the contaminant level; no samples were affected or qualified.

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Project Name: Project Number: Sample Deliverable Group: Sample Date: Report Date Final: Former Renton Terminal #46-080 13042.01 NPJ3345 10/23/06 1/16/07

#### XI. EQUIPMENT BLANK SAMPLE RESULTS

Equipment blanks were not collected. Sampling equipment consisted of dedicated tubing at each sampling point and a peristaltic pump.

#### XII. SUMMARY OF QUALIFIED DATA

No data were qualified in this portion of the review.

| Project Name:             | Former Renton Terminal #46-080 |
|---------------------------|--------------------------------|
| Project Number:           | 13042.01                       |
| Sample Deliverable Group: | NPJ3345                        |
| Sample Date:              | 10/23/06                       |
| Report Date Final:        | 1/16/07                        |

### TABLE 1 SAMPLES INCLUDED IN THIS QUALITY ASSURANCE REVIEW

| Location | Sample ID         | Sample<br>Date | Matrix | Туре                        | Lab ID     | Receipt Date | ID on COC     |
|----------|-------------------|----------------|--------|-----------------------------|------------|--------------|---------------|
| W1       | W1-102306         | 10/23/06       | water  | Normal Environmental Sample | NPJ3345-01 | 10/25/06     | W-1-102306    |
| W2       | W2-102306         | 10/23/06       | water  | Normal Environmental Sample | NPJ3345-02 | 10/25/06     | W-2-102306    |
| B6       | B6-102306         | 10/23/06       | water  | Normal Environmental Sample | NPJ3345-03 | 10/25/06     | B-6-102306    |
| D6       | D6-102306         | 10/23/06       | water  | Normal Environmental Sample | NPJ3345-04 | 10/25/06     | D-6-102306    |
| W2       | DUPE-<br>1-102306 | 10/23/06       | water  | Field Duplicate             | NPJ3345-05 | 10/25/06     | DUPE-1-102306 |
| W1       | W1-102306-TB      | 10/23/06       | water  | Trip Blank                  | NPJ3345-06 | 10/25/06     | W-1-102306-TB |



**Stantec Consulting Corporation** 12034 134<sup>th</sup> CT NE Suite 102 Redmond, WA 98052 Tel: (425) 298-1000 Fax: (425) 298-1020

DATE: September 15, 2009

#### CONOCOPHILLIPS OPERATIONS AND MAINTENANCE REPORT

| ConocoPhillips Facility No.: 3485   | Address: 2423 Lind Avenue SW, Renton, Washington |
|-------------------------------------|--|
| ConocoPhillips Project Manager:     | Myron Smith / (RM&R 3485)                        |
| Consulting Co. / Contact Person:    | Stantec / Jeffrey S. Thompson,                   |
| Consultant Project No.:             | 212301444  |
| Primary Agency / Regulatory ID No.: | Ecology Identifier No. 2070                      |
|                                     |  |

#### System Type: Dual Phase Extraction and Groundwater Pump & Treat

#### WORK PERFORMED THIS QUARTER [Second-2009]:

#### Introduction

This status report provides a summary of remediation activities conducted from April through June 2009, at the ConocoPhillips bulk petroleum distribution terminal in Renton, Washington (the site). Remediation activities conducted at the site and documented in this report are related to the 14,800-gallon petroleum product release, which occurred in November 2002. The petroleum release was reported to the Washington State Department of Ecology (Ecology) on November 14, 2002. Washington Ecology's file number for this site is 2070.

#### Site Description

The site is an active bulk petroleum distribution terminal located at 2423 Lind Avenue SW in Renton, Washington. There are currently seven above ground product storage tanks located in the tank farm at the site (Figure 1), which store premium and regular unleaded gasoline, diesel fuel, and ethanol. Smaller gasoline and diesel additive tanks are also located in the tank farm. Each product tank is surrounded by concrete block walls which are approximately 3 feet high. The entire tank area is surrounded by an earthen containment berm which provides secondary surface spill containment. Surface drainage in the tank area is controlled by a series of gate valves in the concrete containment walls, which are capable of directing flow to a sump in the western portion of the tank area. A large portion of the surface drainage water infiltrates through the earthen material surrounding the tanks and recharges the shallow groundwater table.

#### Summary of Routine Operations and Maintenance Activities

- On April 7, 2009, Stantec personnel were onsite to perform a remediation system vapor check, record operational parameters and inspect system air compressor that was down upon personnel arrival. The Soil Vapor Extraction (SVE) system was operational upon arrival. The Water Treatment System (WTS) system was down; no alarms registered. Upon inspection, it was discovered that air was not allocated to groundwater system wells due to air compressor malfunction. Stantec personnel inspected system hoses, added oil to SVE blower, changed system filters in knock out (K.O.) drum, and performed tank farm inspection of system pump and treat wells. Upon site walk, system wells outside of terminal compound (HW-1E, and HW-1W) were inspected and required new pressure gauges. System compressor and blower information was recorded for required additional maintenance. The SVE and Water Treatment systems were operational upon departure.
- On April 14, 2009, Stantec personnel were onsite to perform a remediation system vapor check, and record operational parameters. The SVE system was operational upon arrival, parameters were recorded and vapor readings checked between carbon filtration vessels. The WTS was down upon arrival due to an air compressor malfunction. Stantec personnel informed the project manager of parameter readings and recorded additional air compressor part information to schedule maintenance visit. The SVE system only operational upon departure.
- On April 16, 2009, Stantec personnel were onsite to perform system repairs on air compressor, install new regulators on wells HW-1E and HW-1W, and replace camlocks on wells LAI-4, LAI-9 and RW-2. The SVE system was operational upon arrival. The WTS system compressor was down upon arrival. Remediation system was shutdown for repairs on air compressor including installation of a new pressure switch and lubrication of compressor components. After repairs were made, system was reset and integrity of repairs checked. No leaks were noted on system well repairs. Upon inspection of air compressor, personnel noticed compressor failure to cycle and smoke emissions from motor housing. An additional site visit was scheduled to perform further repairs required. The SVE system only was operational upon departure.
- On April 21, 2009, Stantec personnel were onsite to perform monthly operations and maintenance activities. The monthly maintenance activities included recording operation parameters, checking the knock out drum filter, collection of SVE Influent, Total Influent, Mid 1, Mid 2, and Total Effluent vapor samples and collection of Influent, Air Stripper Effluent, Mid 1, and Effluent water samples. The vapor readings were within permit parameters, and the SVE system was operational upon arrival. The WTS system air compressor continued to fail to cycle. The compressor was reset and failed to restart. Additional repairs were required. The SVE system was operational upon departure. Air and water permit compliance samples were collected.
- On April 24, 2009, Stantec personnel were onsite to perform a remediation system vapor check and record operational parameters. The SVE system was operational upon arrival, parameters were recorded and vapor readings checked between carbon filtration vessels. Additional duties included recording detailed air compressor information for repairs and component replacement from Ingersoll-Rand. The SVE system only was operational upon departure.
- On April 28, 2009, Stantec personnel were onsite to perform oversight of Ingersoll-Rand personnel in repairs of compressor operations. The compressor components were removed which included belts and motor for inspection and repair. Electrical troubleshooting diagnosed the system compressor as requiring a new motor. Upon inspection, the necessity for compressor motor enclosure and replacing the 160 pounds per square inch (psi) hose with

standard 220 psi hose were additional improvements to be made. The WTS system was down upon departure awaiting new motor and hose replacement. The SVE system parameters were recorded.

- On April 30, 2009, Stantec personnel were onsite to perform vapor system check, perform transfer pump repairs, and conduct carbon grab sample on the SVE system. A vapor check was conducted, and repairs were performed on transfer pump. A flange/impeller was replaced and a leak test conducted on the transfer pump. No additional repairs were required due to no leakage. The project manager was notified of successful repairs and pump status. The SVE system only was operational upon departure.
- On May 5, 2009, Stantec personnel were onsite to perform bi-weekly remediation system vapor check and record system containment berm measurements. Additional operations and maintenance activities included conducting a site walk of the WTE pumps in the tank farm and recording the air compressor serial number. Vapor readings were within permit parameters. The SVE system was operational upon arrival and departure.
- On May 6, 2009, Stantec personnel were onsite to perform a remediation system vapor check, record operational parameters, perform site walk in tank farm, and notate tank farm containment berm wall measurements. The SVE system only was operational upon arrival and departure.
- On May 12, 2009, Stantec personnel were onsite to perform a remediation system vapor check and record operational parameters. The SVE system was inspected and upon investigation several SVE hoses required replacement including the connection between SVE carbon vessel 1 and 2 and the well-field influent hose on WTS portion of system. All required hose components were photo documented for part replacement. Vapor readings were taken and within permit parameters, though an additional air emission test was required for the site. Inspection of wells in tank farm revealed LAI-9 to be leaking at where water influent from fells flex hose connects to a fernco coupler. A second person is required for repairs due to unsafe weight and awkward lifting required of repair junction. The SVE system only was operational upon departure.
- On May 15, 2009, Stantec personnel were onsite to perform a remediation system vapor check and record operational parameters. Additional duties included preparation for the upcoming SVE system carbon vessel change out. The SVE system only was operational upon departure.
- On May 19, 2009, Stantec personnel were onsite to perform SVE carbon vessel maintenance activities. Stantec personnel performed system maintenance including SVE vessel cycling. The carbon vessel change out resulted with a new (pure) vessel in position three, vessel 3 moved to position two, and vessel 2 cycled into position one. Upon carbon change out completion, vapor readings were recorded and a site walk conducted in the tank farm. Tank farm vacuum measurements were recorded and water line fernco repairs conducted. The SVE system only was operational upon departure.
- On May 21, 2009, Stantec personnel were onsite to perform monthly operations and maintenance activities. The monthly maintenance activities included recording operation parameters, checking the knock out drum filter, collection of SVE Influent, Total Influent, Mid 1, Mid 2, and Total Effluent vapor sample only. Vapor readings were within permit parameters. The SVE system was operational upon arrival. The WTS air compressor is still awaiting repairs and offline. Additional duties included sampling of SVE carbon vessels for laboratory analysis. The system was shutdown for sampling and reset upon completion. Personnel took additional

safety precautions when working from heights by using a ladder and proper safety harness equipment. The SVE system only was operational upon departure.

- On May 26, 2009, Stantec personnel were onsite to perform a remediation system vapor check and record operational parameters. Additional duties performed included inspection of pre-filter knock out (KO) drum, system hose line inspection, and collection of tank farm well readings. The SVE system only was operational upon departure.
- On May 29, 2009, Stantec personnel were onsite to perform a remediation system vapor check and record operational parameters. The SVE system only was operational upon arrival and departure.
- On June 1, 2009, Stantec personnel were onsite to perform a remediation system vapor check and record operational parameters. Additional duties performed included site walk in tank farm, inspection and notation of hose system hose lines requiring replacement, photo documentation of necessary part repairs, and supply preparation for upcoming air compressor maintenance. The compressed air line located running from the compressor into system berm was damaged from heat and weather exposure. A recommendation was made for replacement to a higher rated pressure rated line during scheduled Ingersoll-Rand maintenance visit. The SVE system only was operational upon arrival and departure.
- On June 4, 2009, Stantec personnel were onsite to perform a remediation system vapor check and record operational parameters. Upon personnel arrival, SVE system was down due to power surge. The SVE system was reset. Additional duties performed included fernco hose repairs. Upon investigation, the hoses were damaged due to weather on the SVE vapor lines running between carbon vessels 1, 2, and 3. The WTS system remained off line pending totalizer replacement, air stripper cleaning, new compressed air line, and compressor motor replacement by Ingersoll-Rand. The SVE system only was operational upon departure.
- On June 8, 2009, Stantec personnel were onsite to perform a remediation system vapor check and record operational parameters. Additional duties performed included site walk in tank farm and SVE carbon vessel change out preparation. Upon arrival, SVE system was down due to an oil water separator (OWS) batch tank high level alarm. The system was reset and operational vapor parameters recorded. SVE vapor hoses were noted in need of replacement. A meeting was conducted with terminal operators to confirm availability for carbon vessels change out on June 23, 2009. The SVE system only was operational upon departure.
- On June 12, 2009, Stantec personnel were onsite to perform a remediation system vapor check and record operational parameters. Additional duties included tank farm site walk and system well vacuum inspection. The SVE system only was operational upon departure.
- On June 15, 2009, Stantec personnel were onsite to perform a remediation system vapor check and record operational parameters. Additional duties included performing repairs on SVE hose lines running between carbon vessels 2 and 3. The system was shutdown during repairs. The SVE system was reset and integrity of repairs tested. Additional hose line replacement will be required. Specifications for hose replacement were recorded and supplies to be ordered. The SVE system only was operational upon departure.
- On June 18, 2009, Stantec personnel were onsite to perform remediation system vapor check and record operational parameters. Additional duties included recording lengths and specifications for the system hose line replacement. The hoses requiring replacement include: compressor compressed air line, SVE well lines, and associated fittings for installation.

Personnel noted key safety issues related to hose whip potential; whip checks will be added as a precaution. Personnel photo documented system component repairs and conducted a thorough site walk noting necessary winterizing maintenance. The SVE system only was operational upon departure.

- On June 22, 2009, Stantec personnel were onsite to perform remediation system vapor check and record operational parameters. Additional duties included SVE carbon vessel change out and replacement of the 3-inch diameter SVE hoses. Upon arrival, personnel performed lock-out tag-out procedures on the system for upcoming work. Stantec provided oversight for Cowlitz Clean Sweep (CCS) who performed the carbon change-ut. Duties included vacuuming out the five existing SVE carbon vessels and filling with prime carbon. Upon vehicle inspection during safety tailgate meeting, Stantec discovered a shortage of 3,000 pounds of carbon provided by CCS. The Project Manager and Alan Swift from CCS were immediately notified of this discrepancy. An additional site visit was further scheduled for June 24, 2009, in order to pick up carbon waste and change out remaining two vessels. The three in line SVE vessels were vacuumed, labeled, and filled with fresh carbon. The SVE system was reset and operational upon departure.
- On June 24, 2009, Stantec personnel were onsite to perform oversight of carbon change out on two remaining SVE carbon vessels. Stantec oversaw CCS and Siemens Environmental work activities; comply with safety standards, and labeled vessels appropriately. The SVE system only was operational upon departure.
- On June 25, 2009, Stantec personnel were onsite to onsite to perform monthly operations and maintenance activities. The monthly maintenance activities included recording operation parameters, checking the knock out drum filter, collection of SVE Influent, Total Influent, Mid 1, Mid 2, and Total Effluent vapor sample only. Vapor readings were within permit parameters. The SVE system was operational upon arrival. The WTE system air compressor was stillin need of repairs and remained offline. Additional duties performed included a tank farm site walk and system well inspection. System wells LAI-9, LAI-4, and RW-2 require further hose replacement and maintenance. The SVE system only was operational upon departure.
- On June 30, 2009, Stantec personnel were onsite to perform remediation system vapor check and record operational parameters. Additional duties included spent SVE carbon waste pickup oversight of CCS. A system site walk was conducted including inspection and labeling of SVE carbon super sacks prior to removal. The SVE system only was operational upon departure.

#### Remediation Components

Remediation of the November 2002 gasoline release was initiated on November 17, 2002. Since the initiation of remedial efforts, a combination of methods have been utilized in the vicinity of Tank 2 including surface water and groundwater/liquid phase hydrocarbon (LPH) pumping using diaphragm pumps, LPH removal using hand bailing methods, groundwater/LPH pumping using down hole pneumatic pumps and SVE/LPH volatilization using a dual phase vacuum extraction (DPVE) system. The groundwater treatment components of the remediation system were initially situated inside the tank farm containment area and were relocated to a location outside the tank farm containment area during first quarter 2005. System modifications and improvements were completed and coincided with the system relocation. The current process and instrumentation diagram configuration of the remediation system at the site is provided in Figure 2.

#### Dual Phase Vacuum Extraction (DPVE) System

The DPVE component was installed and activated in February 2003. The oxidizer unit was modified from thermal mode to catalytic mode in November 2003 since the catalytic oxidizer would operate with greater efficiency at a lower combustion temperature and require less supplemental fuel (propane).

Based on influent concentrations, the catalytic oxidizer was removed and replaced with a positive displacement blower and three 2,000-pound vapor phase carbon vessels in series in November 2006. The DPVE system utilizes a positive displacement blower to apply a vacuum to six vertical recovery wells (labeled LAIx-4, LAIx-5, LAIx-7, LAIx-8, LAIx-9, and RWx-2).

The treated vapors from the DPVE and the air stripper are discharged in accordance with the modified Notice of Construction (NOC) No. 9648 issued by the Puget Sound Clean Air Agency (PSCAA).

The DPVE system was in operation from February 13, 2009 through March 2009. The DPVE system had been turned off till February when damages to system from freezing temperatures in December 2008 could be resolved and the remediation system could operate safely. DPVE system operation parameters are included in Table 1. Field notes are provided in Appendix A.

#### Groundwater Extraction System

During the reporting period, dedicated down hole pneumatic pumps were operating at wells LAIx-4, LAIx-5, LAIx-6, LAIx-7, LAIx-8, LAIx-9, RWx-2, HWx-1E, and HWx-1W. The groundwater extraction (GWE) system consists of an oil/water separator, product holding tank, batch tank, air stripper, settling tank, particulate filter, and two 1000-pound granular activated carbon filtration vessels in series. Treated groundwater is discharged to the sanitary sewer under the limits of King County Wastewater Discharge Authorization No. 4057-02.

The GWE system was in operation through April 21 2009. The GWE WTS system was down the remainder of the Second Quarter, and requires a motor replacement on the system air compressor. During the operational period, the GWE system was shut down only periodically for equipment repair. GWE system operational parameters are included in Table 1. Field notes are provided in Appendix A.

#### Vapor System Sampling

Air samples were collected by Stantec from the DPVE influent and air stripper effluent as well as the Total Influent, Mid 1, Mid 2, and Effluent sampling ports of the vapor phase carbon vessels on April 21, May 21, and June 25, 2009.

Samples were collected in 1-liter Tedlar<sup>™</sup> bags. Samples were screened for volatile organic compounds (VOCs) using a portable photo-ionization detector (PID) meter. Samples were taken to Test America in Bothell, WA under chain-of-custody documentation. Vapor samples were analyzed for benzene, toluene, ethylbenzene and total xylenes (BTEX) by the United States Environmental Protection Agency (EPA) Method 8021B and total petroleum hydrocarbons as gasoline (TPH-G) by NWTPH-Gx modified Method. Influent and effluent analytical results are summarized in Table 2. Analytical reports are provided in Appendix B.

#### Groundwater Treatment System Sampling

The wastewater discharge permit in effect for the treatment system requires that semiannual samples be collected and results reported annually. Water samples were collected only on April 21, 2009 due to

air compressor component repairs. Samples were collected from the oil water separator effluent, the air stripper effluent, between the water treatment carbon vessels, and at the system effluent.

Samples are submitted to Lancaster Laboratories for analysis of TPH-G per Ecology Method NWTPH-Gx, diesel (TPH-D) and heavy-oil (TPH-O) range hydrocarbons per Ecology Method NWTPH-Dx with an acid/silica gel cleanup and BTEX per USEPA Method 8021B. Analytical results are summarized in Table 3. The laboratory analytical reports are provided in Appendix B.

#### LPH Removal

No measurable product was recovered by the oil water separator between April and June 2009.

#### **Dissolved Phase Gasoline Removal**

During April 2009, approximately 1,830 gallons of groundwater were treated and discharged to the sanitary sewer. This estimate is based on totalizer meter readings taken on April 21 (2,005,630 gallons). No groundwater was treated or discharged during the remainder of the second quarter during off line period.

Analytical results from the influent sampling port after the oil water separator indicated a TPH-G concentration of 105 milligrams per liter (mg/L) on April 21, 2009. Based on a total volume of 1,830 gallons of water, it is estimated that 0.22 pounds (lbs) of gasoline were removed by the groundwater recovery system during second quarter 2009, due to limited run time. Assuming a conversion rate of 6.17 lbs of gasoline per gallon, an estimated 0 gallons of gasoline were removed during second quarter 2009.

#### Vapor Phase Gasoline Removal

Hour-meter readings for the DPVE system indicated that the system operated approximately 14,046 hours (58.5 days) between April and June 2009 and a total of 13,277.1 hours (1,320 days) since system start up on February 12, 2003. Periodic influent vapor sampling of the DPVE system indicates that the DPVE system has removed approximately 39 lbs (6 gallons) of gasoline between April and June 2009 (Table 4).

#### Total Volume of Gasoline Removed

Based on the above information, approximately 12,813.92 gallons of gasoline have been recovered since the initial release of 14,800 gallons of super-unleaded gasoline on November 13, 2002. The total volume of gasoline recovered is comprised of the following:

| RECOVERY METHOD                                      | GALLONS OF RECOVERED GASOLINE |
|--|-------------------------------|
| Recovery Efforts Prior to October 2008: (as reported | 12,774.92                     |
| in previous status reports)                          |                               |
| LPH Recovery (Apr. – Jun., 2009)                     | 0                             |
| Dissolved Phase Recovery (Apr. – Jun., 2009)         | 0.22                          |
| Vapor Phase Recovery (Apr. – Jun., 2009)             | 6                             |
| Estimated Total Gasoline Recovered                   | 12,813.92                     |

#### **Remediation System Effectiveness**

The DPVE remediation system has continued to be effective in removing hydrocarbon mass from the recovery wells around Tank 2. The influent benzene and TPH-G water levels are plotted in attached Graph 1 and 2, respectively, and show a consistent influent concentration level. The influent benzene and TPH-G vapor levels are plotted in attached Graph 3 and 4, respectively, and show a consistent influent concentration level.

#### Permit Compliance

A wastewater discharge authorization (No. 4057-02) was issued on June 1, 2008, by King County Wastewater Treatment Division. The permit limits the daily water discharge from the remediation system to 8,000 gallons per day and requires that the discharged water meet concentration limits of 130 ug/L for benzene, 1,500 ug/L for toluene, and 1,400 ug/L for ethylbenzene. Water sampling was conducted on October 13 and November 10, 2008. The results of the sampling (Table 3) indicate that the system has not exceeded any of the regulatory threshold limits for the reported constituents during this period.

An air discharge Notice of Construction (NC # 9648) was issued on June 29, 2007, by Puget Sound Clean Air Agency. The permit limits the air flow to 400 cubic feet per minute (CFM) and requires that the discharged air meet concentration limits of 30 parts per million by volume (ppmV) of TPH-G. Vapor sampling of the treatment system was conducted on October 13 and November 10, 2008. The results of the sampling (Table 2) indicate that the system has not exceeded any of the regulatory threshold limits for the reported constituents during this period.

Based on the results for both the water and vapor sampling, the DPVE system operated within compliance of the water and air discharge permits.

#### WORK PROPOSED FOR NEXT QUARTER [Third – 2009]:

- Repair and replace WTS air compressor motor and belts.
- Continue to monitor the system operational performance and perform routine operations and maintenance activities on a weekly basis.
- Collect influent and effluent vapor and water sample.
- Monitor SVE carbon for additional change out
- Repair manifold leaks and hose degradation

#### **ATTACHMENTS:**

| FIGURE 1      | Site Plan  |
|---------------|--|
| FIGURE 2      | Groundwater Treatment System Process and Instrumentation Diagram |
| TABLE 1       | Dual Phase Extraction System Operator Log Sheet Summary          |
| TABLE 2       | Vapor Analytical Results-Remediation System                      |
| TABLE 3       | Groundwater Treatments Analytical Results                        |
| TABLE 4       | Estimated DPVE Mass Removal Summary                              |
| GRAPH 1       | Benzene Influent Vapor Levels                                    |
| GRAPH 2       | TPH-g Influent Vapor Levels                                      |
| GRAPH 3       | Benzene Influent Water Levels                                    |
| GRAPH 4       | TPH-g Influent Water Levels                                      |
| Attachment A: | Remediation System Operational Logs                              |
| Attachment B: | Remediation System Laboratory Analytical Reports                 |

Prepared By:

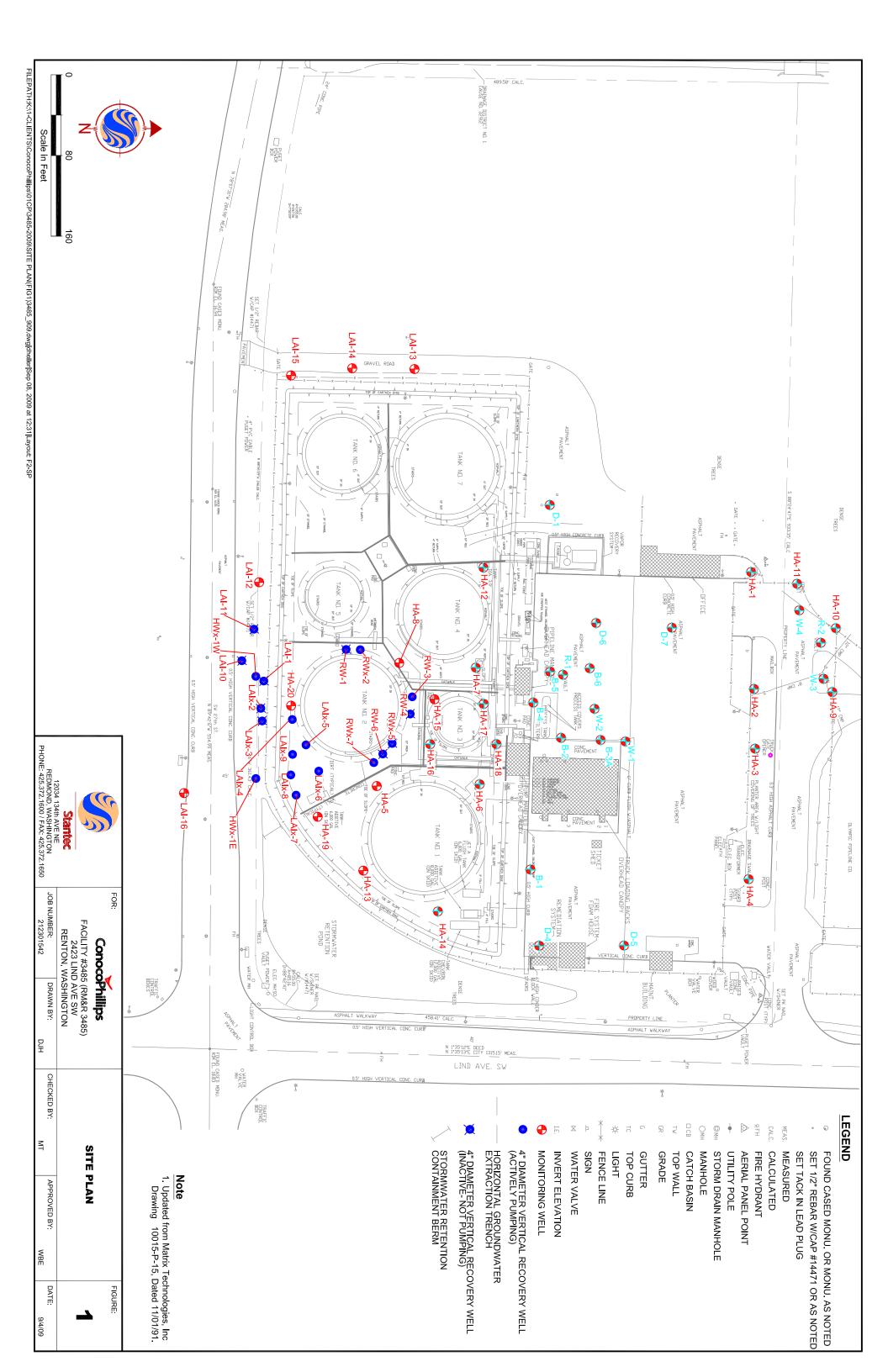
Partin for M. Tolley

Matt Tolley Staff Scientist

**Reviewed By:** 

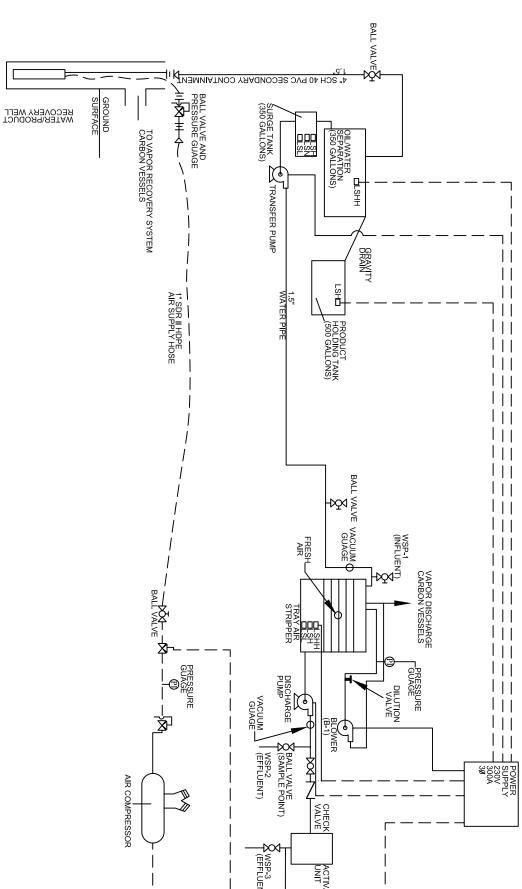
Jeffrey S. Thompson, LG, L.E.G. Principal Geologist

**FIGURES** 



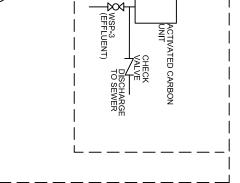






| DJH    | I BY:        | STON | W | R 3485)      | sd                 |                   |         |  |
|--------|--------------|------|---|--------------|--------------------|-------------------|---------|--|
| MT     | CHECKED BY:  |      |   | INSTRUMENTA  | SYSTEM PROCESS AND | <b>CDOINDWATE</b> |         |  |
| JT     | APPROVED BY: |      |   | TION DIAGRAM | OCESS AND          | DTDEATMENT        |         |  |
| 9/4/09 | DATE:        |      |   | N            |                    |                   | FIGURE: |  |

NOT TO SCALE



TABLES

|                      | Soil Vapor System   |                                      |                         |              |             |   | Groundwater Treatment Syste                  |  |                        |  |   |                     |                          |
|----------------------|---------------------|--------------------------------------|-------------------------|--------------|-------------|---|--|--|------------------------|--|---|---------------------|--------------------------|
|                      |                     |                                      |                         | Total VOCs ( | ppm w/ PID) |   |  |  |                        |  |   |                     |                          |
| Date                 | Vapor Hour<br>Meter | Total Vacuum<br>Reading<br>(in. H2O) | Total Flowrate<br>(cfm) | Influent     | Effluent    | Laboratory<br>Sample<br>Collected?<br>(Y/N) | Water<br>Discharge<br>Flowmeter<br>(gallons) | Gallons<br>Discharged<br>since last<br>visit | Cummulative<br>Gallons | GW System<br>Operational<br>on Arrival | GW System<br>Operational<br>on<br>Departure | Sample<br>Collected |                          |
| 02/12/03             | 21593.5             | 94                                   | 300                     | NA           | NA          | Ν   |  | 0  | 0                      |  |   |                     |                          |
| 02/13/03             | 21609.5             | 96                                   | 270                     | 200          | 0.0         | Y   |  | 0  |                        |  |   |                     |                          |
| 02/19/03             | 21758.2             | 22                                   | 300                     | NA           | NA          | N   |  | 0  | -                      |  |   |                     |                          |
| 02/20/03<br>02/21/02 | 21781.8<br>21804.1  | 23.8<br>18                           | 306<br>330              | 690<br>823   | 0.0         | N<br>N                                      |  | 0  |                        |  |   |                     |                          |
| 02/22/03             | 21835.1             | 18                                   | 318                     | NA           | NA          | N   |  | 0  | -                      |  |   |                     |                          |
| 02/23/03             | 21841.4             | 18                                   | 306                     | NA           | NA          | N   |  | 0  | -                      |  |   |                     |                          |
| 02/24/03             | 21875.0             | 22                                   | 306                     | 942          | 0.0         | Y   |  | 0  | 0                      |  |   |                     |                          |
| 02/25/03             | 21899.4             | 26                                   | 305                     | 1628         | 0.0         | N   |  | 0  | -                      |  |   |                     |                          |
| 02/26/03             | 21915.8             | 23                                   | 300                     | 2000         | 0.0         | N   |  | 0  |                        |  |   |                     |                          |
| 02/27/03             | 21926.1             | 20                                   | 300                     | 2000         | 17.0        | N   |  | 0  | -                      |  |   |                     |                          |
| 02/28/03<br>03/02/03 | 21949.6<br>21994.2  | 25<br>27                             | 300<br>306              | 2000<br>1975 | 0.0         | N<br>N                                      |  | 0  | -                      |  |   |                     |                          |
| 03/02/03             | 22010.4             | 26                                   | 310                     | 1029         | 1.9         | N   |  | 0  | Ţ                      |  |   |                     |                          |
| 03/03/03             | 22022.1             | 26                                   | 300                     | 988          | 0.0         | N   |  | 0  |                        |  |   |                     |                          |
| 03/04/03             | 22047.8             | 32                                   | 300                     | 1220         | 0.0         | Ν   |  | 0  |                        |  |   |                     |                          |
| 03/05/03             | 22073.7             | 35                                   | 300                     | 1062         | 0.0         | N   |  | 0  | -                      |  |   |                     |                          |
| 03/06/03             | 22096.6             | 35                                   | 300                     | 844          | 0.0         | N   |  | 0  | -                      |  |   |                     |                          |
| 03/07/03<br>03/08/03 | 22118.4<br>22148.8  | 36<br>38                             | 300<br>300              | 831<br>740   | 0.0         | N<br>N                                      |  | 0  | -                      |  |   |                     |                          |
| 03/18/03             | 22187.2             | 52                                   | 290                     | NA           | NA          | Ň   |  | 0  | -                      |  |   |                     |                          |
| 03/19/03             | 22211.3             | 38                                   | 290                     | 1046         | 0.0         | N   |  | 0  | -                      |  |   |                     |                          |
| 03/20/03<br>03/26/03 | 22234.5<br>22309.8  | 43<br>35                             | 290<br>290              | NA<br>625    | NA<br>0.0   | N<br>N                                      |  | 0  | -                      |  |   |                     |                          |
| 03/27/03             | 22305.0             | 34                                   | 310                     | NA           | NA          | N   |  | 0  |                        |  |   |                     |                          |
| 03/28/03             | 22355.0             | 30                                   | 310                     | NA           | NA          | N   |  | 0  | -                      |  |   |                     |                          |
| 03/31/03             | 22428.0             | 30                                   | 290                     | NA           | NA          | N   |  | 0  | 0                      |  |   |                     |                          |
| 04/01/03             | 22452.8             | 32                                   | 290                     | NA           | NA          | N   |  | 0  | -                      |  |   |                     |                          |
| 04/02/03             | 22474.2             | 30                                   | 290                     | NA           | NA          | N   |  | 0  | ÷                      |  |   |                     |                          |
| 04/03/03             | 22496.3             | 32<br>32                             | 290                     | NA           | NA          | N   |  | 0  | -                      |  |   |                     |                          |
| 04/04/03<br>04/08/03 | 22512.0<br>22609.8  | 46                                   | 290<br>288              | 462<br>NA    | 0.0<br>NA   | N<br>N                                      |  | 0  | -                      |  |   |                     |                          |
| 04/11/03             | 22678.5             | 40                                   | 290                     | 745          | 0.0         | N   |  | 0  | -                      |  |   |                     |                          |
| 04/15/03             | 22773.8             | 40                                   | 290                     | NA           | NA          | N   |  | 0  | -                      |  |   |                     |                          |
| 04/17/03             | 22822.6             | 40                                   | 290                     | 801          | 0.0         | Y   |  | 0  | 0                      |  |   |                     |                          |
| 04/22/03             | 22941.8             | 42                                   | 295                     | 1065         | 0.0         | Ν   |  | 0  | 0                      |  |   |                     |                          |
| 04/25/03             | 23012.3             | 42                                   | 290                     | 877          | 0.0         | <u>N</u>                                    |  | 0  | -                      |  |   |                     |                          |
| 04/29/03<br>05/02/03 | 23109.6<br>23155.0  | 38<br>NO                             | 284<br>NO               | NA<br>NO     | NA<br>NO    | N<br>NO                                     |  | 0  |                        |  |   |                     |                          |
| 05/02/03             | 23155.0             | 27                                   | 285                     | 1140         | 0.0         | N   |  | 0  | -                      |  |   |                     |                          |
| 05/13/03             | 23286.8             | 24                                   | 200                     | NA           | NA          | N   |  | 0  |                        |  |   |                     |                          |
| 05/16/03             | 23361.1             | 34                                   | 290                     | 1192         | 0.0         | N   |  | 0  |                        |  |   |                     |                          |
| 05/19/03             | 23389.1             | 30                                   | 290                     | NA           | NA          | N   |  | 0  | 0                      |  |   |                     |                          |
| 05/20/03             | 23407.9             | 30                                   | 290                     | NA           | NA          | N   |  | 0  | -                      |  |   |                     |                          |
| 05/22/03             | 23464.7             | 40                                   | 260                     | 4860         | 0.0         | N   |  | 0  |                        |  |   |                     |                          |
| 05/23/03             | 23483.9             | 40                                   | 285                     | NA           | NA          | N   |  | 0  | -                      |  |   |                     |                          |
| 05/28/03<br>06/13/03 | 23598.4<br>23694.4  | 26<br>30                             | 290<br>290              | NA<br>NA     | NA<br>NA    | N<br>N                                      | 0  |  |                        | Yes                                    |   |                     |                          |
| 06/13/03             | 23694.4             | 20                                   | 290                     | NA           | NA          | N   | 0  | -  |                        | Yes                                    |   |                     |                          |
| 06/20/03             | 23802.0             | 39                                   | 290                     | 1479         | 0.0         | Y   | 0  |  |                        | No                                     |   |                     | Shut off pumps for 2 day |
| 06/27/03             |                     |                                      |                         |              |             |   | , i i i i i i i i i i i i i i i i i i i      | 0  |                        | No                                     |   |                     | High level alarm         |
| 07/03/03             | 24020.1             | 28                                   | 270                     | NA           | NA          | Ν   | 0  | 0  | 0                      | Yes                                    |   |                     |                          |
| 07/07/03             | NA                  | 26                                   | 290                     | 1099         | 0-2.5       | N   | 3,340  |  | ,                      |  |   |                     | High level alarm         |
| 07/11/03             | 24039.5             | 24                                   | 270                     | 1099         | 0.0         | N   | 6,440  |  | - / -                  |  |   |                     |                          |
| 07/14/03             | 24111.8             | 27                                   | 270                     | NA           | NA          | <u>N</u>                                    | 6,440  |  |                        |  |   |                     |                          |
| 07/16/03             | 24157.6             | 32                                   | 270                     | NA           | NA          | Ν   | 6,440  | 0  | 6,440                  | No                                     |   |                     | Need new flow meter      |

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| Soil Vapor System    |                     |                                      |                         |              |             |   |  |  |                        |  | G   | roundwate           | er Treatment System                                    |
|----------------------|---------------------|--------------------------------------|-------------------------|--------------|-------------|---|--|--|------------------------|--|---|---------------------|--|
|                      |                     |                                      |                         | Total VOCs ( | opm w/ PID) |   |  |  |                        |  |   |                     |  |
| Date                 | Vapor Hour<br>Meter | Total Vacuum<br>Reading<br>(in. H2O) | Total Flowrate<br>(cfm) | Influent     | Effluent    | Laboratory<br>Sample<br>Collected?<br>(Y/N) | Water<br>Discharge<br>Flowmeter<br>(gallons) | Gallons<br>Discharged<br>since last<br>visit | Cummulative<br>Gallons | GW System<br>Operational<br>on Arrival | GW System<br>Operational<br>on<br>Departure | Sample<br>Collected |  |
| 07/18/03             | 24196.4             | 34                                   | 270                     | NA           | NA          | Ν   | 0  | 0  |                        |  |   |                     | High level alarm                                       |
| 7/21/03              | 24272.1             | 33                                   | 270                     | 1115         | 0.0         | Ν   | 2,509  | 0  |                        |  |   |                     |  |
| )7/24/03             | 24279.3             | 26                                   | 270                     | 977          | 0.6         | N   | 2,509  | 0  |                        |  |   |                     | High level alarm                                       |
| )7/28/03             | 24372.9             | 33                                   | 270                     | NA           | NA          | N   | 2,509  | 0  |                        |  |   |                     |  |
| 07/31/03             | 24375.5             | 28                                   | 270                     | 1215         | 0.0         | N   | 2,509  | 0  |                        |  |   |                     | High level alarm                                       |
| 08/05/03             | 24493.9             | 40                                   | 270                     | NA           | NA          | N   | 2,509  | 0  | - ,                    |  |   |                     |  |
| 08/07/03<br>08/11/03 | 24539.9<br>24632.5  | 44<br>46                             | 270<br>270              | NA<br>NA     | NA<br>NA    | Y<br>N                                      | 3,576<br>4,642                               | 0  |                        | res                                    |   |                     |  |
| 08/15/03             | 24632.5             | 40                                   | 270                     | 967          | 0.0         | N N   | 4,840  | 0  |                        | No                                     |   |                     |  |
| 08/22/03             | 24735.4             | 42                                   | 270                     | NA           | NA          | N   | 9,279  | 0  |                        |  |   |                     |  |
| 08/26/03             | 24894.7             | 47                                   | 270                     | NA           | NA          | N   | 9,279  | 0  |                        |  |   |                     | Restarted that day                                     |
| 09/02/03             | 25102.3             | 32                                   | 270                     | NA           | NA          | N   | 12,535                                       | 0  |                        |  |   |                     |  |
| 9/05/03              | 25170.1             | 47                                   | 270                     | NA           | NA          | N   | 12,535                                       | 0  |                        |  |   |                     |  |
| 09/11/03             | 25312.7             | 75                                   | 270                     | NA           | NA          | Ν   | 14,197                                       | 0  |                        |  |   |                     |  |
| 09/18/03             | 25484.4             | 60                                   | 270                     | 1943         | 0.0         | N   | 14,197                                       | 0  |                        | No                                     |   |                     |  |
| 09/28/03             |                     |                                      |                         |              |             |   | 2,850  | 0  | 20,637                 | Yes                                    |   |                     |  |
| 10/01/03             | 25687.1             | 26                                   | 280                     | 1300-1350    | 0.0         | N   | 2,858  | 0  |                        | Yes                                    |   |                     |  |
| 10/17/03             | 26041.6             | 35                                   | 280                     | 779          | 0.0         | Ν   | 2,858  | 0  |                        |  |   |                     | High level alarm                                       |
| 0/22/03              |                     |                                      |                         |              |             |   |  | 0  |                        |  |   |                     | Release from batch tank,                               |
| 10/24/03             | 26198.6             | NO                                   | NO                      | NO           | NO          | N   | 8,020  | 0  |                        |  |   |                     | High level alarm, sytem d                              |
| 10/28/03             | 26201.9             | 20                                   | 270                     | >250         | 1.0         | N   | 9,524  |  |                        |  |   |                     |  |
| 0/29/03              | 26225.0             | 20                                   | 270                     | NA           | NA          | N   | 11,278                                       |  |                        |  |   |                     | Down for 24 hrs to replac                              |
| 1/04/03              | 26325.7             | 20                                   | 270                     | 107          | 1.5         | N<br>Y                                      | 11,278                                       |  |                        |  |   |                     |  |
| 1/21/03<br>1/25/03   | 26464.2<br>26482.2  | 26<br>5                              | 185<br>190              | 85.9<br>NA   | 5.0<br>NA   | N N   | 12,851<br>15,260                             | 0  | · · · · ·              |  |   |                     | Down for 1 week  |
| 2/01/03              | 20402.2             | 5                                    | 190                     | INA          | NA          | IN  | 15,200                                       | 0  |                        |  |   |                     | DOWITION I WEEK  |
| 2/03/03              | 26486.8             | 27                                   | 185                     | NA           | NA          | N   | 17,357                                       | 0  |                        | No                                     |   |                     |  |
| 2/12/03              | 26696.3             | 24                                   | 216                     | 38           | 30.0        | Ν   | 20,471                                       | 0  |                        |  |   |                     |  |
| 2/15/03              |                     |                                      |                         |              |             |   |  | 0  | 41,108                 | No                                     |   |                     | Bipass OW separator, GV                                |
| 2/16/03              | 26789.8             | 25                                   | 180                     | NA           | NA          | N   | 20,673                                       |  | 41,310                 | Yes                                    |   |                     |  |
| 2/17/03              |                     |                                      | 070                     | 00.0         |             | N/  | 00.404                                       | 0  |                        |  |   |                     |  |
| 2/18/03              |                     |                                      | 270                     | 23.8         | 3.9         | Yes   | 30,124                                       | 0  |                        |  |   |                     | Chut dours for 4 dours                                 |
| 2/19/03              | 27000.0             |                                      |                         |              |             |   | 39,668                                       | 0  | ,                      |  |   |                     | Shut down for 4 days<br>Down from 23 to 31st           |
| 01/09/04             | 27000.0             | 35                                   | 290                     | NA           | NA          | No  | 39,668                                       |  |                        |  |   |                     | Frozen PVC pipe repair.                                |
| 01/16/04             | 21200.0             | 00                                   | 200                     |              |             | 110   | 39,668                                       |  |                        |  |   |                     | GW system still off, instal                            |
| )1/23/04             | 27460.1             | 20                                   | 270                     | NA           | NA          | No  | 44,350                                       |  |                        |  |   | Yes                 | Turned GW system on af                                 |
| 01/26/04             | 27531.1             | 20<br>20                             | 270                     | NA<br>NA     | NA          | No  | 44,500                                       |  |                        | Yes                                    |   | No                  | Trouble with influentpum                               |
| 01/27/04<br>01/30/04 | 27550.7<br>27621.6  | 20                                   | 270<br>270              | NA           | NA<br>NA    | No<br>No                                    | 46,710<br>46,810                             |  |                        | No                                     |   | No<br>No            | Trouble with influent pum<br>replaced flow meter and s |
| )2/04/04             | 21021.0             |                                      |                         | 1.7.         |             |   | 6,140  |  | 73,587                 | No                                     | Yes   | No                  | High level alarm in sparg                              |
| )2/05/04             | 27758.1             | 23                                   | 270.0                   | 7.6          | 0.6         | Yes   | 13,113                                       | 6,973  |                        |  | Yes   | Yes                 |  |
| )2/09/04<br>)2/10/04 | 27804.0<br>27818.9  | 22<br>24                             | 270<br>288              | 306          | 0.6         | No<br>No                                    | 14,845<br>22,216                             | 1,732<br>7,371                               | 82,292<br>89,663       | No                                     | Yes   | No<br>No            | Power shutdown   |
| 02/16/04             | 27877.5             | 24                                   | 279                     | 15.4<br>NA   | NA          | No  | 41,032                                       |  |                        | No                                     | Yes<br>Yes                                  | No                  | High level alarm in sparg                              |
| )2/24/04             | 28062.7             | 24                                   | 270                     | 90.8         | 40.3        | No  | 67,156                                       |  | 134,603                | Yes                                    | Yes   | No                  | I ngh lovol alam in oparg                              |
| 03/02/04             | 28217.9             | 24                                   | 270                     | 50.5         | 1.3         | No  | 91,069                                       | 23,913                                       | 158,516                | Yes                                    | Yes   | No                  | Attempted to route GW th                               |
| )3/16/04             | 28563.4             | 24                                   | 270                     | 44.7         | 0.7         | Yes   | 130,663                                      |  | 198,110                | No                                     | Yes   | Yes                 |  |
| 3/22/04<br>3/30/04   | 28702.2<br>28788.5  | 24<br>24                             | 270<br>306              | NA<br>NA     | NA<br>NA    | No<br>No                                    | 132,558<br>136,691                           | 1,894<br>4,134                               |                        | No                                     | Yes<br>Yes                                  | No<br>No            | shut down to convert to b<br>High alarm on transfer ta |
| 4/02/04              | 28826.5             | 24                                   | 298                     | NA           | NA          | No  | 138,393                                      | 1,702  | 205,840                | No                                     | Yes   | No                  | High alarm on stripper                                 |
| 4/05/04              | 28904.5             | 24                                   | 270                     | 73.4         | 0.1         | No  | 139,515                                      | 1,122  | 206,962                | No                                     | Yes   | No                  | High alarm on stripper                                 |
| 4/12/04              | 29037.6             | 24                                   | 270                     | 104          | 1.4         | No  | 152,600                                      |  |                        |  | Yes   | No                  |  |
| 4/19/04<br>5/03/04   | 29137.3<br>29467.6  | 24<br>24                             | 288<br>288              | 58.4<br>59.7 | 3.2<br>0.5  | No<br>No                                    | 159,037<br>169,903                           |  |                        |  | Yes<br>Yes                                  | No<br>No            |  |
| 5/03/04<br>5/07/04   | 23407.0             | 24                                   | 200                     | 39.1         | 0.5         | INU   | 171,146                                      |  |                        |  | N   | N                   | Bad indicator light                                    |
| )5/17/04             | 29470.0             |                                      |                         |              |             |   |  | .,   | 238,593                | Ν                                      | Y   | N                   | System has been down for                               |
| )6/22/04             |                     |                                      |                         | NA           | NA          | No  |  | 0  | 238,593                | No                                     | No  | No                  | Both system down on arri                               |
| 06/28/04             | 30035.8             | 24                                   | 316                     | NA           | NA          | No  | 176,120                                      | 4,974  | 243,566                | Yes                                    | Yes   | No                  |  |

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| GW Comments  |
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| ank, down for 10 days  |
| em down until 10/24  |
| place pump   |
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| r, GW pumped directly to sparge tank   |
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|  |
| air. System down since 12/19   |
| nstall Active Carbon Vessels, failed pump<br>on after repairs to pump                      |
| pump   |
| and started system<br>parge tank, but system was restarted                                 |
|  |
|  |
| parge tank   |
| W thru oil/h2o separator but pump cracked during freeze in 、                               |
| to boh loader LAI-4. Start OW separator. New transfer pur                                  |
| er tank. Incorrect rotation wiring, electrician fixed                                      |
| 7  |
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|  |
| wn for 10 days. Both systems turned on.<br>a arrival. Bad high level alarm in OW separator |
| annan Baa nigh level alann in Ow Separator   |

|                      |                     |                                      | Soil Vapor              | System        |              |   |                        |                     |                    |  | G   | roundwate           | er Treatment System   |
|----------------------|---------------------|--------------------------------------|-------------------------|---------------|--------------|---|------------------------|---------------------|--------------------|--|---|---------------------|---|
|                      |                     |                                      |                         | Total VOCs (p | opm w/ PID)  |   |                        |                     |                    |  |   |                     |   |
| Date                 | Vapor Hour<br>Meter | Total Vacuum<br>Reading<br>(in. H2O) | Total Flowrate<br>(cfm) | Influent      | Effluent     | Laboratory<br>Sample<br>Collected?<br>(Y/N) | Flowmeter<br>(gallons) | since last<br>visit | Gallons            | GW System<br>Operational<br>on Arrival | GW System<br>Operational<br>on<br>Departure | Sample<br>Collected | GW Comments   |
| 07/01/04             |                     | -                                    |                         |               |              |   | 176,145                | 25                  |                    | No                                     | Yes   | No                  |   |
| 07/02/04<br>07/08/04 | 30131.1<br>30233.8  | 24<br>30                             | 290<br>316              | 206<br>NA     | 10.7<br>NA   | Yes<br>No                                   | 176,930<br>178,473     | 785<br>1,543        | 244,377<br>245,920 | No                                     | Yes   | No                  | High alarm, convert pumps to bottom load on LAI-4,7,8,9   |
| 07/14/04             | 30255.8             | 24                                   | 290                     | NA            | NA           | No  | 178,863                | 390                 | 246,310            |  | Yes   | No<br>No            | High Level alarm  |
| 07/21/04             | 30428.4             | 26                                   | 290                     | 247           | 0.0          | No  | 179,658                | 795                 | 247,105            | No                                     |   |                     | High level alarm  |
| 08/16/04             | 30465.7             | 26                                   | 290                     | NA            | NA           | No  | 179,756                | 98                  | 247,203            |  | Yes   | No                  | loss of power, change Warrick switch  |
| 08/18/04<br>08/20/04 | 30502.4<br>30510.5  | 26<br>27                             | 290<br>290              | 503<br>633    | 33.6<br>20.3 | No<br>Yes                                   | 182,626<br>184,399     | 2,870<br>1,773      | 250,073<br>251,846 |  |   | No<br>No            | High level alarm in project tank - purged water in tank<br>Burner would not activate, entire system shut down |
| 08/23/04             | 30511.2             | 24                                   | 288                     | 180           | 20.3         | No  | 184,410                | 11                  | 251,840            |  | Yes   |                     | Drained water in product holding tank, burner down.   |
| 08/25/04             | 30525.3             | 26                                   | 290                     | NA            | NA           | No  | 185,860                | 1,450               | 253,307            |  |   |                     | H2Oil onsite, replace actuator on propane line  |
| 09/02/04             | 30721.2             | 28                                   | 290                     | 121           | 3.7          | No  | 194,495                | 8,635               | 261,942            |  | Yes   |                     | High level alarm at stripper sump   |
| 09/08/04             | 30859.4             | 26                                   | 290                     | 298           | 0.8          | No  | 199,688                | 5,193               | 267,135            | Yes                                    | Yes   | No                  |   |
| 09/16/04             | 31051.1             | 31                                   | 290                     | 430           | 0.0          | nO  | 206,632                | 6,944               | 274,079            | nO                                     | Yes   | No                  |   |
| 09/21/04             | 31065.2             | 0.4                                  | 000                     | 77.0          | 0.7          | N -   | 208,543                | 1,911               | 275,990            | NI -                                   | N1-   | N1 -                | Release from batch tank, GW and SVE systems down  |
| 10/19/04<br>10/21/04 | 31065.2<br>31112.4  | 24<br>24                             | 288<br>288              | 77.6<br>NA    | 0.7<br>NA    | No<br>No                                    | 208,543<br>208,660     | 1,911<br>117        | 275,990<br>276,107 |  | No<br>Yes                                   |                     | Turn SVE system on<br>Turn GW system on (down since release)  |
| 11/05/04             | 31326.5             | 24                                   | 288                     | NA            | NA           | No  | 208,660                | 6,784               | 282,891            |  | Yes   |                     | Both systems down for 3 days, no propane  |
| 11/08/04             | 31344.9             | 24                                   | 288                     | NA            | NA           | No  | 215,488                | 44                  | 282,935            |  |   | No                  | Doin systems down for 5 days, no propane  |
| 11/12/04             | 31389.5             | 28                                   | 279                     | NA            | NA           | No  | 215,488                | 0                   | 282,935            |  | Yes   | 140                 |   |
| 11/18/04             | 01000.0             | 20                                   | 210                     | 107           | 101          | 110   | 215,488                |                     | 282,935            | 110                                    | 100   |                     | H2Oil onsite to determine low effluent water volume   |
|                      | 04040.0             | 0.4                                  | 040                     | 60 F          | 0.0          | )/  |                        | 00 504              |                    | NI-                                    | N/  | N/                  | nightever alarm in sparge tank, manually lower level. Onlinge to top loaders on                               |
| 12/22/04<br>12/30/04 | 31818.3<br>31958.6  | 24<br>24                             | 310<br>322              | 62.5<br>NA    | 0.0<br>NA    | Yes<br>No                                   | 245,010<br>246,520     | 29,521<br>1,511     | 544,353<br>784,903 |  | Yes<br>Yes                                  | Yes<br>No           | pumps, system down first 2 weeks of month<br>change carbon in filter  |
| 01/03/05             | 31958.6             | 24                                   | 522                     |               | 11/4         | 110   | 246,520                | 0                   | 784,903            |  | No  |                     | Shut both systems down due to freezing weather  |
| 01/13/05             |                     | 20                                   | 203                     | NA            | NA           | No  | 246,770                | 250                 | 785,153            |  |   |                     | Turn system on after temperatures drop (system down for 10 days)  |
| 01/18/05             | 32099.2             | 20                                   | 310                     | NA            | NA           | No  | 251,276                | 4,506               | 789,659            | Yes                                    | Yes   | No                  |   |
| 01/29/05             | 32340.2             | 20                                   | NA                      | NA            | NA           | Yes   | 254,476                | 3,200               | 792,859            |  | Yes   | No                  | Compressor shut down.   |
| 01/31/05             | 32371.8             | 20                                   | NA                      | NA            | NA           | Yes   | 258,600                | 4,124               | 796,983            |  | Yes   |                     | High level alarm in sparge tank   |
| 02/02/05             | 32379.2             | 20                                   | NA                      | NA            | NA           | No  | 259,860                | 1,260               | 798,243            | No                                     | Yes   |                     | Both system down on arrival. Bad high level alarm in sparge tank  |
| 02/07/05             |                     |                                      |                         |               |              |   | 261,880                | 2,020               | 800,263            |  |   |                     | Both systems down on arrival. Shut systems down for relocation  |
| 03/15/05             | 32608.1             | 24                                   | 168                     | NA            | NA           | No  | 273,012                | 11,132              | 811,395            | No                                     | Yes   | No                  | Complete system relocation, start both systems up   |
| 03/31/05<br>04/20/05 | 32992.0<br>33562.0  | 22                                   | 150                     | NA            | NA           | No  | 303,837<br>342,370     | 30,825<br>38,533    | 842,220<br>880,753 | Vos                                    | Yes   | No                  |   |
| 05/05/05             | 33749.0             | 24                                   | 140                     | NA            | NA           | No  | 347,230                | 4,860               | 885,613            |  | Yes   | No                  |   |
| 06/08/05             | 34145.0             | 30                                   | 30                      | NA            | NA           | No  | 397,300                | 50,070              | 935,683            |  | Yes   | No                  |   |
| 07/29/05             | 34930.0             | 20                                   | 50                      | NA            | NA           | No  | 430,825                |                     | 969,208            |  | Yes   | No                  |   |
| 09/12/05             | 35499.8             | NA                                   | NA                      | NA            | NA           | No  | 436,900                | 6,075               | 975,283            |  |   |                     | maintenance. System has not operated since.   |
| 09/27/05             | 35627.2             | 15                                   | NA                      | NA            | NA           | No  | 448,560                | 11,660              | 986,943            | No                                     | Yes   |                     | stripper high level   |
| 10/31/05             | 36078.5             | 27                                   | 200 (est)               | 166           | 10.3         | Yes   | 490,300                | 41,740              | 1,028,683          |  | Yes   |                     | System operating intermittenly due to air stripper high level alarm (resolved on 11/                          |
| 11/30/05             | 36713.4             | 28                                   | 200 (est)               | NA            | NA           | Yes   | 567,212                | 76,912              | 1,105,595          |  | No  |                     | SVE system is operating and GW ext. system down due to iron fouling in AS.                                    |
| 12/29/05             | 37148.4             | 28                                   | 170                     | NA            | NA           | Yes   | 668,000                | 100,788             | 1,206,383          |  | Yes   |                     | Air Stripper sump high level  |
| 01/31/06             | 37336.7             | 30                                   | 170                     | 0.4           | 1.8          | Yes   | 688,017                | 20,017              | 1,226,400          |  |   |                     | carbon and restarted, operating intermittently. GWET system was not   |
| 02/23/06             | 37662.0             | 27                                   | 168                     | 90            | 2.5          | Yes   | 721,540                | 33,523              | 1,259,923          |  |   | Yes                 |   |
| 03/30/06             | 38445.3             | 28                                   | 168                     | 5             | 4.0          | No  | 807,390                | 85,850              | 1,345,773          |  | No  | No                  | GWET system was not operational for vapor sampling  |
| 03/30/00             | 39078.4             | NA                                   | 168 (est)               | 7.2           | 0.6          | No  | 866,120                | 58,730              | 1,404,503          |  | Yes   | No                  |   |
| 06/07/06             | 39484.0             | NA                                   | 168 (est)               | 42            | 2.0          | No  | 895,860                | 29,740              | 1,434,243          |  | Yes   | No                  |   |
| 06/22/06             | 39509.0             | NA                                   | 162 (est)               | 42            | 2.0          | No  | 896,730                | 870                 | 1,435,113          |  | No  |                     | System is down pending the installation of a chemical feed system.  |
| 07/31/06             | 39552.1             | NA                                   | 162(est)                | 42            | 2.0          | No  | 897,715                |                     |                    |  | Yes   |                     | System was restarted after chemical feed system was installed.  |
| 08/03/06             | 39624.1             | NA                                   | 162(est)                | 42            | 2.0          | No  | 912,671                | 14,956              |                    |  | Yes   |                     | VES hour meter malfunctioning. Vapor hour meter estimated to have run 72 hour                                 |

| er Treatment Syst        | roundwate           | G   |  |                        |  |  |   |             | System        | Soil Vapor              |                                      |                     |                      |
|--------------------------|---------------------|---|--|------------------------|--|--|---|-------------|---------------|-------------------------|--------------------------------------|---------------------|----------------------|
|                          |                     |   |  |                        |  |  |   | ppm w/ PID) | Total VOCs (J |                         |                                      |                     |                      |
|                          | Sample<br>Collected | GW System<br>Operational<br>on<br>Departure | GW System<br>Operational<br>on Arrival | Cummulative<br>Gallons | Gallons<br>Discharged<br>since last<br>visit | Water<br>Discharge<br>Flowmeter<br>(gallons) | Laboratory<br>Sample<br>Collected?<br>(Y/N) | Effluent    | Influent      | Total Flowrate<br>(cfm) | Total Vacuum<br>Reading<br>(in. H2O) | Vapor Hour<br>Meter | Date                 |
|                          | Yes                 | No  | No                                     | 1,511,567              | 60,513                                       | 973,184                                      | Yes   | 11.4        | 414           | 162(est)                | 28                                   | 39854.6             | 09/27/06             |
| System shut down per     | No                  | No  |  | 1,535,413              | 23,846                                       | 997,030                                      | No  | 11.4        | 414           | 162(est)                | 28                                   | 39981.2             | 10/20/06             |
| System shut down per     | No                  |   |  |                        | 0  | 997,030                                      | No  | 11.4        | 414           | 162(est)                | 28                                   | 39981.2             | 11/30/06             |
| System shut down per     | No                  |   |  |                        | 0  | 997,030                                      | No  | 11.4        | 414           | 162(est)                | 28                                   | 39981.2             | 12/31/06             |
| New settling tank and    | Yes                 | Yes   |  | 1,562,937              | 27,524                                       | 1,024,554                                    | Yes   | 0.0         | 230           | 162(est)                | 42                                   | 40094.2             | 01/31/07             |
| System shutdown on       | No                  | No  | No                                     | 1,617,595              | 54,658                                       | 1,079,212                                    | No  | 0.0         | 230           | 162(est)                | 40                                   | 40335.4             | 02/27/07             |
| System shut down per     | No                  | No  | No                                     | 1,617,595              | 0  | 1,079,212                                    | No  | 0.0         | 0             | 162(est)                | 40                                   | 40336.4             | 03/31/07             |
| System shut down due     | No                  | No  |  | 1,619,446              | 1,851  | 1,081,063                                    | No  | 0.0         | 230           | 162(est)                | 40                                   | 40339.2             | 4/31/07              |
| Polish carbon, berm e    | Yes                 | Yes   | Yes                                    | 1,649,527              | 30,081                                       | 1,111,144                                    | Yes   | 0.0         | 316           | 308                     | 40                                   | 40729.5             | 06/01/07             |
| Vapor Phase carbon of    | Yes                 | Yes   | No                                     | 1,673,639              | 24,112                                       | 1,135,256                                    | Yes   | 0.0         | 305           | 308                     | 40                                   | 41210.4             | 06/29/07             |
| Changed out VP carb      | Yes                 | Yes   | Yes                                    | 1,713,150              | 39,511                                       | 1,174,767                                    | Yes   | 0.0         | 364           | 308                     | 40                                   | 41619.7             | 07/31/07             |
| Changed out VP carb      | Yes                 | Yes   | Yes                                    | 1,753,275              | 40,125                                       | 1,214,892                                    | Yes   | 11.5        | 476           | 219                     | 30                                   | 42075.9             | 08/30/07             |
| Added an additional v    | Yes                 | Yes   | Yes                                    | 1,835,655              | 82,380                                       | 1,297,272                                    | Yes   | 2.0         | 2300          | 210                     | 40                                   | 42437.9             | 09/27/07             |
| Changed out VP carb      | Yes                 | Yes   | Yes                                    | 1,882,315              | 46,660                                       | 1,343,932                                    | Yes   | 0.0         | 300           | 196                     | 30                                   | 42801.9             | 10/31/07             |
| Changed out VP carb      | Yes                 | Yes   | Yes                                    | 1,931,403              | 49,088                                       | 1,393,020                                    | Yes   | 0.1         | 210           | 190                     | 40                                   | 43185.9             | 11/28/07             |
|                          | Yes                 | Yes   | Yes                                    | 2,031,297              | 99,894                                       | 1,492,914                                    | Yes   | 0.3         | 52.2          | 168                     | 40                                   | 43635.8             | 12/18/07             |
| Changed LP carbon        | Yes                 | Yes   | Yes                                    | 2,154,961              | 123,664                                      | 1,616,578                                    | Yes   | 0.0         | 20.1          | 154                     | 40                                   | 44282.8             | 01/16/08             |
| Samples taken on 2/1     | Yes                 | Yes   | Yes                                    | 2,222,831              | 67,870                                       | 1,684,448                                    | Yes   | 0.0         | 76            | 210                     | 25                                   | 44982.8             | 02/27/08             |
| Replaced compressor      | Yes                 | Yes   |  | 2,254,648              | 31,817                                       | 1,716,265                                    | Yes   | 0.0         | 269           | 203                     | 25                                   | 45482.8             | 03/19/08             |
|                          | Yes                 |   |  | 2,302,979              | 48,331                                       | 1,764,596                                    | Yes   | 0.0         | 50.6          | 210                     | 25                                   | 45914.2             | 04/09/08             |
| GW system off            | No                  |   |  | 2,344,241              | 41,262                                       | 1,805,858                                    | Yes   | 0.0         | 87.4          | 168                     | 58                                   | 46908.2             | 05/21/08             |
| GW system off            | No                  |   |  | 1= 1                   |  | 1,805,858                                    | Yes   | 0.3         | 68.7          | 154                     | 80                                   | 47746.6             | 06/25/08             |
| GW system off            | No                  |   |  | 2,344,241              | NA   | NA   | Yes   | 0.1         | 129           | 175                     | 85                                   | 48561.6             | 07/29/08             |
| GW system off            | No                  |   |  | 2,344,241              | NA   | NA   | Yes   | 0.4         | 186           | 182                     | 80                                   | 48920.2             | 08/13/08             |
| GW system off            | No                  |   |  | 2,344,241              | NA   | NA   | Yes   | 1.5         | 122           | 182                     | 82                                   | 49496.7             | 09/18/08             |
| GW system back on        | No                  | Yes   |  | 2,355,633              | 11,392                                       | 1,817,250                                    | No  | 0.0         | 289           | 210                     | 42                                   | 49515.3             | 10/02/08             |
| OWS batch product H      | No                  | Yes   |  |                        | 4,170  | 1,821,420                                    | No  | 0.0         | 320           | 224                     | 27                                   | 49542.7             | 10/06/08             |
|                          | No                  | Yes   |  | 2,370,783              | 10,980                                       | 1,832,400                                    | No  | 0.0         | 243           | 224                     | 30                                   | 49636.0             | 10/10/08             |
|                          | Yes                 | Yes   |  | 2,376,633              | 5,850  | 1,838,250                                    | Yes   | 0.0         | 222           | 224                     | 30                                   | 49711.5             | 10/13/08             |
|                          | No<br>No            | Yes   | Yes                                    | 2,381,563<br>2,392,993 | 4,930  | 1,843,180                                    | No  | 0.0         | 214<br>252    | 224<br>224              | 30<br>30                             | 49782.9<br>49878.5  | 10/16/08<br>10/20/08 |
|                          | No                  | Yes<br>Yes                                  |  | 2,392,993              | 11,430<br>7,160                              | 1,854,610<br>1,861,770                       | No<br>No                                    | 1.8<br>2.1  | 252           | 224                     | 30                                   | 49878.5             | 10/20/08             |
|                          | No                  | Yes   |  |                        | 9,440  | 1,871,210                                    | No  | 2.1         | 208           | 224                     | 30                                   | 50044.9             | 10/27/08             |
| Changed out VP carb      | No                  | Yes   |  |                        |  | 1,877,730                                    | No  | 3.2         | 220           | 224                     | 30                                   | 50113.3             | 10/30/08             |
| OWS batch product F      | Yes                 |   |  |                        |  | 1,892,230                                    | Yes   | 0.2         | 44            | 210                     | 30                                   | 50234.7             | 11/10/08             |
| Stripper or settling tar | No                  |   |  |                        |  | 1,922,290                                    | No  | 1.0         | 23.4          | 210                     | 30                                   | 50386.0             | 11/18/08             |
| OWS batch product F      | No                  |   |  |                        |  | 1,930,870                                    | No  | 0.2         | 13.8          | 210                     | 30                                   | 50431.8             | 11/24/08             |
| Compressor belt failu    | No                  | Yes   |  |                        |  | 1,968,130                                    | No  | 4.5         | 12.1          | 210                     | 30                                   | 50717.8             | 12/08/08             |
| System was down in .     | Yes                 | Yes   | Yes                                    | 2,518,613              | 12,100                                       | 1,980,230                                    | Yes   | 5.3         | 15.5          | 200                     | 35                                   | 50902.4             | 02/25/09             |
|                          | No                  | Yes   | Yes                                    | 2,524,043              |  | 1,985,660                                    | No  | 3.6         | 14.4          | 200                     | 35                                   | 51045.5             | 03/03/09             |
|                          | No                  |   |  |                        |  | 1,988,440                                    | No  | 0.6         | 21.9          | 210                     | 40                                   | 51115.3             | 03/12/09             |
| SVE Blower belt failur   | Yes                 |   |  |                        |  | 2,003,890                                    | No  | NA          | NA            | NA                      | 15                                   | 51329.6             | 03/26/09             |
| System was on; comp      | No                  |   |  |                        |  | 2,004,140                                    | Yes   | 1.0         | 16.5          | 210                     | 35                                   | 51330.9             | 03/30/09             |
| System air compresso     | Yes                 | Yes   |  |                        | 1,490  | 2,005,630                                    | Yes   | 5.3         | 63.1          | 210                     | 34                                   | 51519.4             | 04/21/09             |
| System air compresso     |                     |   |  |                        |  |  | Yes   | 1.7         | 2.0           | 210                     | 30                                   | 52565.9             | 05/21/09             |
| System air compresso     |                     |   |  |                        |  |  | Yes   | 0.0         | 15.0          | 196                     | 32                                   | 53258.3             | 06/25/09             |

#### Notes:

inH20 = Inches of water efm = effluent flow meter ppm = parts per million PID = Photoionization Detector added to hour meter as of 8-6-08 as meter was reset = 8771.8 VOCs = Volatile Organic Carbon cfm = cubic feet per minute

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| GW Comments  |
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| nding installation of settling tank.                     |
| nding installation of settling tank.                     |
| nding installation of settling tank.                     |
| VES system installed. New hour meter on VES side         |
| February 12, 2007 until carbon changeout is completed    |
| nding carbon changeout and polisher vessel installation. |
| e to excessive backpressure from polish carbon.          |
| xtension, and air flow meter installed.                  |
| changed out on 6/29/07 and system restarted              |
| on on July 30th. Started pulling through carbons         |
| on on August 25.   |
| apor phase carbon vessel, cleaned OWS and settling tank  |
| on on Oct. 4th   |
| on on Nov. 16th  |
|  |
| 1/15/08  |
| 4/08   |
| and compressor motor                                     |
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| IL signal from SVE                                       |
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| on on Oct. 30th  |
| IL signal from SVE                                       |
| nk H/L   |
| IL signal from SVE; Stripper or settling tank H/L        |
| re January due to weather related damages to components  |
| andary use to weather related damages to components      |
|  |
| е.   |
| pressor not pressurized.                                 |
| or off line upon arrival, unable to reset                |
| ar people now motor, aveter off line                     |

or needs new motor, system off line or needs new motor, system off line

|      |                     |                                      | Soil Vapor              | System        |             |   |  |   |             |  | G           | roundwate           | er Treatment System |
|------|---------------------|--------------------------------------|-------------------------|---------------|-------------|---|--|---|-------------|--|-------------|---------------------|---------------------|
|      |                     |                                      |                         | Total VOCs (p | opm w/ PID) |   |  |   |             |  |             |                     |                     |
| Date | Vapor Hour<br>Meter | Total Vacuum<br>Reading<br>(in. H2O) | Total Flowrate<br>(cfm) | Influent      | Effluent    | - | Water<br>Discharge<br>Flowmeter<br>(gallons) | - | Cummulative | GW System<br>Operational<br>on Arrival | Operational | Sample<br>Collected |                     |

GW = ground water

tem

#### **GW Comments**

|          |          | Ben    | zene | Tolu   | Jene | Ethylb | enzene | Xylene | es, total | TPł      | l-g  | TP     | H-d  |
|----------|----------|--------|------|--------|------|--------|--------|--------|-----------|----------|------|--------|------|
| Location | Date     | mg/m3  | ppmV | mg/m3  | ppmV | mg/m3  | ppmV   | mg/m3  | ppmV      | mg/m3    | ppmV | mg/m3  | ppmV |
| Total    | 02/13/03 | 9.162  | NA   | 14.379 | NA   | 0.598  | NA     | NA     | NA        | 708.44   | NA   | NA     | NA   |
| Influent | 02/24/03 | 62.322 | NA   | 226.05 | NA   | 17.387 | NA     | NA     | NA        | 1,859.64 | NA   | 867.83 | NA   |
|          | 04/08/03 | 28.845 | NA   | 106.65 | NA   | 10.811 | NA     | NA     | NA        | 1,124.3  | NA   | 524.69 | NA   |
|          | 06/20/03 | 84     | NA   | 189    | NA   | 17.1   | NA     | 93.5   | NA        | 1,860    | NA   | NA     | NA   |
|          | 07/11/03 | 80.5   | NA   | 101    | NA   | 17.5   | NA     | 81.6   | NA        | 1,900    | NA   | NA     | NA   |
|          | 08/07/03 | 63.5   | NA   | 111    | NA   | 6.61   | NA     | 31.4   | NA        | 1,170    | NA   | NA     | NA   |
|          | 10/15/03 | 43.2   | NA   | 91.5   | NA   | 6.51   | NA     | 34.1   | NA        | 779      | NA   | NA     | NA   |
|          | 12/18/03 | 14.8   | NA   | 64.4   | NA   | 9.27   | NA     | 54.8   | NA        | 497      | NA   | NA     | NA   |
|          | 02/05/04 | 3.45   | NA   | 6.8    | NA   | 0.924  | NA     | 6.7    | NA        | 46       | NA   | NA     | NA   |
|          | 03/16/04 | 7.81   | NA   | 15.5   | NA   | 1.96   | NA     | 15.6   | NA        | 252      | NA   | NA     | NA   |
|          | 07/02/04 | 23.5   | NA   | 68.5   | NA   | 5.61   | NA     | 57.6   | NA        | 927      | NA   | NA     | NA   |
|          | 08/20/04 | 69.7   | NA   | 181    | NA   | 13.8   | NA     | 93.7   | NA        | 2,130    | NA   | NA     | NA   |
|          | 12/22/04 | 5.76   | 1.77 | 14.3   | 3.74 | 1.67   | 0.378  | 12.5   | 2.83      | 162      | 38.2 | NA     | NA   |
|          | 06/08/05 | 5.08   | 1.57 | 11.7   | 3.05 | 1.05   | 0.238  | 9.96   | 2.26      | 167      | 39.4 | NA     | NA   |
|          | 09/30/05 | <2     | NA   | <3     | NA   | <2     | NA     | <3     | NA        | 94       | NA   | NA     | NA   |
|          | 10/31/05 | NA     | 8    | NA     | 30   | NA     | 3      | NA     | 20        | NA       | 190  | NA     | NA   |
|          | 11/30/05 | <2     | <0.5 | <3     | <0.8 | <2     | <0.4   | <3     | <0.7      | 3.3      | <1.0 | NA     | NA   |
|          | 12/29/05 | NA     | 4    | NA     | 9    | NA     | 0.7    | NA     | 6         | NA       | 30   | NA     | NA   |
|          | 01/31/06 | <2     | <0.5 | <3     | <0.8 | <2     | <0.4   | <3     | <0.7      | <3.5     | <1.0 | NA     | NA   |
|          | 02/23/06 | 20     | 7    | 50     | 10   | 3      | 0.7    | 40     | 9         | 100      | 29   | NA     | NA   |
|          | 03/30/06 | <2     | <0.5 | <3     | <0.8 | <2     | <0.4   | <3     | <0.7      | 7.2      | 2    | NA     | NA   |
|          | 06/09/06 | 10     | 4    | 30     | 9    | 2      | 0.5    | 30     | 6         | 160      | 46   | NA     | NA   |
|          | 09/12/06 | 10     | 4    | 90     | 20   | 9      | 2      | 90     | 20        | 600      | 170  | NA     | NA   |
|          | 01/31/07 | 40     | 10   | 60     | 20   | 2      | 0.5    | 10     | 3         | 120      | 34   | NA     | NA   |
|          | 05/11/07 | 20     | 5    | 30     | 8    | <2     | <0.4   | 10     | 3         | 130      | 36   | NA     | NA   |
|          | 06/21/07 | 3      | 1    | 20     | 5    | <2     | <0.4   | 9      | 2         | 180      | 50   | NA     | NA   |
|          | 07/31/07 | 25.3   | 7.81 | 74.3   | 19.4 | 7.85   | 1.78   | 69     | 15.6      | 1,370    | 323  | NA     | NA   |
|          | 08/22/07 | 47.6   | 14.7 | 114    | 29.8 | <1     | <0.454 | 84.8   | 19.2      | 2,190    | 515  | NA     | NA   |
|          | 09/27/07 | 99.6   | 30.7 | 275    | 72   | 23     | 5.21   | 179    | 40.5      | 3,670    | 865  | NA     | NA   |

|          |          | Ben   | zene   | Tol   | uene  | Ethylb | enzene    | Xylene    | es, total | TP    | H-g  | TP    | H-d  |
|----------|----------|-------|--------|-------|-------|--------|-----------|-----------|-----------|-------|------|-------|------|
| Location | Date     | mg/m3 | ppmV   | mg/m3 | ppmV  | mg/m3  | ppmV      | mg/m3     | ppmV      | mg/m3 | ppmV | mg/m3 | ppmV |
| Total    | 10/25/07 | 55.2  | 17     | 126   | 33    | 7.82   | 1.77      | 80.5      | 18.3      | 1,300 | 306  | NA    | NA   |
| Influent | 11/28/07 | 58.2  | 17.9   | 98.1  | 25.6  | 4.29   | 0.974     | 44.8      | 10.2      | 426   | 100  | NA    | NA   |
|          | 12/18/07 | 6.43  | 1.98   | 8.51  | 2.22  | 0.461  | 0.105     | 7.49      | 1.7       | 104   | 24.4 | NA    | NA   |
|          | 01/16/08 | 3.33  | 1.03   | 8.51  | 2.22  | 0.666  | 0.151     | 5.93      | 1.34      | 113   | 26.6 | NA    | NA   |
|          | 02/14/08 | 1.79  | 0.551  | 4.14  | 1.08  | 0.454  | 0.103     | 5.35      | 1.21      | 42.8  | 10.1 | NA    | NA   |
|          | 03/19/08 | 47.0  | 14.5   | 88.6  | 23.1  | 4.77   | 1.08      | 42.1      | 9.54      | 501   | 118  | NA    | NA   |
|          | 04/09/08 | 21    | 6.47   | 34.6  | 9.05  | 1.84   | 0.418     | 25.5      | 5.77      | 232   | 54.6 | NA    | NA   |
|          | 05/21/08 | 4.31  | 1.33   | 11.6  | 3.02  | 0.889  | 0.202     | 11.1      | 2.52      | 203   | 47.9 | NA    | NA   |
|          | 06/25/08 | 8.2   | 2.53   | 23.1  | 6.03  | 1.57   | 0.356     | 17.8      | 4.04      | 260   | 61.4 | NA    | NA   |
|          | 07/29/08 | 11.5  | 3.54   | 43.2  | 11.3  | 2.77   | 0.629     | 35.2      | 7.99      | 667   | 157  | NA    | NA   |
|          | 08/13/08 | 13.8  | 4.26   | 60.3  | 15.8  | 3.76   | 0.853     | 44.3      | 10        | 765   | 180  | NA    | NA   |
|          | 09/18/08 | -     | 3.48   | 35.4  | 9.25  | 2.96   | 0.672     | 30.9      | 7.01      | 628   | 148  | NA    | NA   |
|          | 10/13/08 |       | 5.73   | 54.1  | 14.1  | 4.50   | 1.02      | 41.3      | 9.37      | 336   | 79.3 | NA    | NA   |
|          | 11/10/08 |       | 1.50   | 14.6  | 3.82  | 1.47   | 0.334     | 14.6      | 3.32      | 123   | 28.9 | NA    | NA   |
|          | 12/15/08 |       |        |       |       |        | em down ι |           |           |       |      |       |      |
|          | 01/13/09 |       |        |       |       | Syste  | em down ι | unable to | sample    |       |      |       |      |
|          | 02/25/09 | 1.77  | 0.546  | 3.45  | 0.902 | 0.138  | 0.0313    | 1.83      | 0.414     | 55.8  | 13.1 | NA    | NA   |
|          | 03/30/09 | 2.17  | 0.668  | 5.36  | 1.4   | 0.384  | 0.0871    | 4.24      | 0.961     | 54.2  | 12.8 | NA    | NA   |
|          | 04/21/09 | 8.40  | 2.59   | 14.5  | 3.79  | 0.487  | 0.111     | 6.32      | 1.43      | 71.2  | 16.8 | NA    | NA   |
|          | 05/21/09 | 0.282 | 0.0869 | 0.483 | 0.126 | <0.100 | <0.0227   | 0.204     | 0.0464    | 20.4  | 4.81 | NA    | NA   |
|          | 06/25/09 | 1.13  | 0.349  | 2.72  | 0.71  | 0.103  | 0.0233    | 2.66      | 0.602     | 54.6  | 12.9 | NA    | NA   |

|          |          | Ben    | zene     | Tol    | uene     | Ethylb | enzene    | Xylene    | s, total | TP    | H-g   | TP    | H-d  |
|----------|----------|--------|----------|--------|----------|--------|-----------|-----------|----------|-------|-------|-------|------|
| Location | Date     | mg/m3  | ppmV     | mg/m3  | ppmV     | mg/m3  | ppmV      | mg/m3     | ppmV     | mg/m3 | ppmV  | mg/m3 | ppmV |
| Midpoint | 07/31/07 | <0.100 | < 0.0308 | 0.736  | 0.192    | 0.152  | 0.0346    | 1.95      | 0.442    | 18    | 4.13  | NA    | NA   |
| 1        | 08/22/07 | 166    | 51.1     | 3.54   | 0.926    | <1.00  | <0.227    | 4.42      | 1        | 3,160 | 746   | NA    | NA   |
|          | 08/30/07 | 0.179  | 0.055    | 1.5    | 0.393    | 0.276  | 0.0625    | 2.86      | 0.648    | 5.44  | 5.44  | NA    | NA   |
|          | 10/25/07 | <.100  | < 0.0308 | 0.591  | 0.154    | 0.111  | 0.0251    | 1.41      | 0.319    | 10.8  | 2.54  | NA    | NA   |
|          | 11/28/07 | 0.186  | 0.0573   | 1.05   | 0.274    | 0.129  | 0.0292    | 1.56      | 0.354    | 10.8  | 2.55  | NA    | NA   |
|          | 12/18/07 | <0.100 | < 0.0308 | 0.433  | 0.113    | <0.100 | < 0.0227  | 1         | 0.228    | <10   | <2.36 | NA    | NA   |
|          | 01/16/08 | <0.100 | < 0.0308 | 0.488  | 0.127    | <0.100 | < 0.0227  | 0.592     | 0.134    | <10   | <2.36 | NA    | NA   |
|          | 02/14/08 | <0.100 | < 0.0308 | <0.100 | < 0.0261 | <0.100 | < 0.0227  | < 0.200   | < 0.0454 | <10   | <2.36 | NA    | NA   |
|          | 03/19/08 | <0.100 | < 0.0308 | <0.100 | < 0.0261 | <0.100 | <0.0227   | 0.219     | 0.0496   | <10   | <2.36 | NA    | NA   |
|          | 04/09/08 | <0.100 | < 0.0308 | 0.4    | 0.104    | <0.100 | < 0.0227  | 0.754     | 0.171    | <10   | <2.36 | NA    | NA   |
|          | 05/21/08 | 22.5   | 6.92     | 0.251  | 0.0655   | <0.100 | <0.0227   | 0.376     | 0.0853   | <10   | <2.36 | NA    | NA   |
|          | 06/25/08 | 9.37   | 2.89     | 33.5   | 8.76     | <0.100 | <0.0227   | <0.200    | < 0.0454 | 93.3  | 22    | NA    | NA   |
|          | 07/29/08 | <0.100 | < 0.0308 | <0.100 | < 0.0261 | <0.100 | <0.0227   | 0.227     | 0.0515   | <10   | <2.36 | NA    | NA   |
|          | 08/13/08 | 28.3   | 8.71     | <0.100 | < 0.0261 | <0.100 | <0.0227   | <0.200    | < 0.0454 | 148   | 34.9  | NA    | NA   |
|          | 09/18/08 | 11.3   | 3.5      | 39.7   | 10.4     | <0.100 | <0.0227   | <0.200    | < 0.0454 | 388   | 91.5  | NA    | NA   |
|          | 10/13/08 | <0.100 | < 0.0308 | <0.100 | < 0.0261 | <0.100 | <0.0227   | <0.200    | < 0.0454 | <10   | <2.36 | NA    | NA   |
|          | 11/10/08 |        | 0.574    | <0.100 | < 0.0261 | <0.100 | <0.0227   | <0.200    | <0.0454  | <10   | <2.36 | NA    | NA   |
|          | 12/15/08 |        |          |        |          | Syste  | em down ι | inable to | sample   |       |       |       |      |
|          | 01/13/09 |        |          |        |          | Syste  | em down ι | inable to | sample   |       |       |       |      |
|          | 02/25/09 | 3.68   | 1.13     | <0.100 | < 0.0261 | <0.100 | <0.0227   | <0.200    | < 0.0454 | 20.2  | 4.76  | NA    | NA   |
|          | 03/30/09 | 1.23   | 0.38     | <0.100 | < 0.0261 | <0.100 | < 0.0227  | <0.200    | < 0.0454 | <10   | <2.36 | NA    | NA   |
|          | 04/21/09 | 7.87   | 2.43     | 0.280  | 0.0731   | <0.100 | < 0.0227  | <0.200    | < 0.0454 | 62.3  | 14.7  | NA    | NA   |
|          | 05/21/09 | 7.57   | 2.33     | <0.100 | <0.0261  | <0.100 | <0.0227   | <0.200    | <0.0454  | 22    | 5.18  | NA    | NA   |
|          | 06/25/09 | <0.100 | < 0.0308 | <0.100 | <0.0261  | <0.100 | <0.0227   | <0.200    | <0.0454  | <10   | <2.36 | NA    | NA   |

|          |          | Ben    | zene     | Tol    | Jene     | Ethylb | enzene    | Xylene    | s, total | TP    | H-g   | TP    | H-d  |
|----------|----------|--------|----------|--------|----------|--------|-----------|-----------|----------|-------|-------|-------|------|
| Location | Date     | mg/m3  | ppmV     | mg/m3  | ppmV     | mg/m3  | ppmV      | mg/m3     | ppmV     | mg/m3 | ppmV  | mg/m3 | ppmV |
| Midpoint | 11/28/07 | 0.258  | 0.0794   | 0.772  | 0.202    | <0.100 | < 0.0227  | 1.62      | 0.367    | 12.9  | 3.05  | NA    | NA   |
| 2        | 12/18/07 | <0.100 | < 0.0308 | <0.100 | < 0.0261 | <0.100 | < 0.0227  | < 0.200   | < 0.0454 | <10   | <2.36 | NA    | NA   |
|          | 01/16/08 | 0.140  | 0.0433   | 0.425  | 0.111    | <0.100 | <0.0227   | 0.379     | 0.0860   | <10   | <2.36 | NA    | NA   |
|          | 02/14/08 | <0.100 | < 0.0308 | <0.100 | < 0.0261 | <0.100 | <0.0227   | <0.200    | < 0.0454 | <10   | <2.36 | NA    | NA   |
|          | 03/19/08 | <0.100 | < 0.0308 | <0.100 | < 0.0261 | <0.100 | < 0.0227  | <0.200    | < 0.0454 | <10   | <2.36 | NA    | NA   |
|          | 04/09/08 | <0.100 | < 0.0308 | 0.127  | 0.0332   | <0.100 | <0.0227   | <0.200    | < 0.0454 | <10   | <2.36 | NA    | NA   |
|          | 05/21/08 | 0.198  | 0.0609   | <0.100 | < 0.0261 | <0.100 | < 0.0227  | <0.200    | < 0.0454 | <10   | <2.36 | NA    | NA   |
|          | 06/25/08 | <0.100 | < 0.0308 | <0.100 | < 0.0261 | <0.100 | < 0.0227  | <0.200    | < 0.0454 | <10   | <2.36 | NA    | NA   |
|          | 07/29/08 | <0.100 | < 0.0308 | <0.100 | < 0.0261 | <0.100 | <0.0227   | 0.313     | 0.071    | <10   | <2.36 | NA    | NA   |
|          | 08/13/08 | <0.100 | < 0.0308 | <0.100 | < 0.0261 | <0.100 | < 0.0227  | <0.200    | < 0.0454 | <10   | <2.36 | NA    | NA   |
|          | 09/18/08 | 0.107  | 0.0329   | <0.100 | < 0.0261 | <0.100 | <0.0227   | 0.394     | 0.0893   | <10   | <2.36 | NA    | NA   |
|          | 10/13/08 | <0.100 | < 0.0308 | <0.100 | < 0.0261 | <0.100 | <0.0227   | <0.200    | < 0.0454 | <10   | <2.36 | NA    | NA   |
|          | 11/10/08 | <0.100 | < 0.0308 | <0.100 | < 0.0261 | <0.100 | < 0.0227  | 0.216     | 0.0489   | <10   | <2.36 | NA    | NA   |
|          | 12/15/08 |        |          |        |          | Syste  | em down ι | inable to | sample   |       |       |       |      |
|          | 01/13/09 |        |          |        |          | Syste  | em down ι | inable to | sample   |       |       |       |      |
|          | 02/25/09 | <0.100 | < 0.0308 | <0.100 | < 0.0261 | <0.100 | <0.0227   | <0.200    | < 0.0454 | <10   | <2.36 | NA    | NA   |
|          | 03/30/09 | <0.100 | < 0.0308 | <0.100 | < 0.0261 | <0.100 | <0.0227   | <0.200    | < 0.0454 | <10   | <2.36 | NA    | NA   |
|          | 04/21/09 | <0.100 | < 0.0308 | <0.100 | < 0.0261 | <0.100 | <0.0227   | <0.200    | < 0.0454 | <10   | <2.36 | NA    | NA   |
|          | 05/21/09 | <0.100 | < 0.0308 | <0.100 | < 0.0261 | <0.100 | < 0.0227  | <0.200    | < 0.0454 | <10   | <2.36 | NA    | NA   |
|          | 06/25/09 | <0.100 | < 0.0308 | <0.100 | < 0.0261 | <0.100 | <0.0227   | <0.200    | < 0.0454 | <10   | <2.36 | NA    | NA   |

|          |          | Ben    | zene     | Tolu   | Jene     | Ethylb | enzene    | Xylene      | s, total | TP    | H-g   | TP    | 'H-d |
|----------|----------|--------|----------|--------|----------|--------|-----------|-------------|----------|-------|-------|-------|------|
| Location | Date     | mg/m3  | ppmV     | mg/m3  | ppmV     | mg/m3  | ppmV      | mg/m3       | ppmV     | mg/m3 | ppmV  | mg/m3 | ppmV |
| AS       | 11/28/07 | <.100  | < 0.0308 | 0.206  | 0.0539   | <0.100 | < 0.0227  | 0.239       | 0.0541   | <10   | <2.36 | NA    | NA   |
| Effluent | 12/18/07 | 82.5   | 25.4     | 102    | 26.8     | 4.29   | 0.973     | 75.8        | 17.2     | 765   | 180   | NA    | NA   |
|          | 02/14/08 | 259    | 79.7     | 381    | 99.5     | 27.3   | 6.20      | 246         | 55.7     | 3840  | 904   | NA    | NA   |
|          | 03/19/08 | 115    | 35.3     | 181    | 47.3     | 9.51   | 2.16      | 83.0        | 18.8     | 933   | 220   | NA    | NA   |
|          | 04/09/08 | 21.8   | 6.72     | 35.8   | 9.36     | 1.86   | 0.422     | 24.3        | 5.51     | 205   | 48.4  | NA    | NA   |
| AS off   | 05/21/08 |        |          |        |          |        |           |             |          |       |       | NA    | NA   |
|          | 06/25/08 |        |          |        |          | -      |           |             |          |       |       | NA    | NA   |
|          | 07/29/08 |        |          |        |          |        |           |             |          |       |       | NA    | NA   |
|          | 08/13/08 |        |          |        |          |        |           |             |          |       |       | NA    | NA   |
|          | 09/18/08 |        |          |        |          |        |           |             |          |       |       | NA    | NA   |
| AS on    | 10/13/08 | <0.100 | < 0.0308 | <0.100 | < 0.0261 | <0.100 | < 0.0227  | <0.200      | < 0.0454 | <10   | <2.36 | NA    | NA   |
|          | 11/10/08 | 46.4   | 14.3     | 41.0   | 10.7     | 0.870  | 0.197     | 69.1        | 15.7     | 263   | 62.0  | NA    | NA   |
|          | 12/15/08 |        |          |        |          | Syste  | m down ι  | inable to a | sample   |       |       |       |      |
|          | 01/13/09 |        |          |        |          | Syste  | m down ι  | inable to a | sample   |       |       |       |      |
|          | 02/25/09 | <0.100 | < 0.0308 | <0.100 | < 0.0261 | <0.100 | < 0.0227  | <0.200      | < 0.0454 | <10   | <2.36 | NA    | NA   |
|          | 03/30/09 | 315    | 97.1     | 494    | 129      | 21.5   | 4.87      | 165         | 37.5     | 2160  | 508   | NA    | NA   |
|          | 04/21/09 | 3.69   | 1.14     | 6.79   | 1.77     | 0.262  | 0.0595    | 3.65        | 0.827    | 30.3  | 7.14  | NA    | NA   |
|          | 05/21/09 |        |          |        |          | Syter  | n down ur | nable to s  | ample    |       |       |       |      |
|          | 06/25/09 |        |          |        |          | Syter  | n down ur | nable to s  | ample    |       |       |       |      |

|          |          | Ben   | zene  | Tol   | uene  | Ethylb | enzene    | Xylene    | s, total | TP    | H-g  | TP    | H-d  |
|----------|----------|-------|-------|-------|-------|--------|-----------|-----------|----------|-------|------|-------|------|
| Location | Date     | mg/m3 | ppmV  | mg/m3 | ppmV  | mg/m3  | ppmV      | mg/m3     | ppmV     | mg/m3 | ppmV | mg/m3 | ppmV |
| SVE      | 08/22/07 | 210   | 64.6  | 418   | 109   | 41.2   | 9.35      | 332       | 75.3     | 10200 | 2400 | NA    | NA   |
| Influent | 12/18/07 | 8.32  | 2.57  | 13.4  | 3.51  | 1.17   | 0.265     | 13        | 2.96     | 323   | 76.1 | NA    | NA   |
|          | 01/16/08 | 8.12  | 2.50  | 23.1  | 6.03  | 1.42   | 0.323     | 12.0      | 2.71     | 286   | 67.4 | NA    | NA   |
|          | 02/14/08 | 28.6  | 8.82  | 118   | 30.7  | 20.4   | 4.63      | 222       | 50.3     | 1900  | 448  | NA    | NA   |
|          | 03/19/08 | 45.2  | 13.9  | 145   | 38.0  | 15.3   | 3.47      | 169       | 38.3     | 2860  | 675  | NA    | NA   |
|          | 04/09/08 | 50.8  | 15.6  | 110   | 28.6  | 7.36   | 1.67      | 97.9      | 22.2     | 1840  | 433  | NA    | NA   |
|          | 05/21/08 | 38.9  | 12    | 86.7  | 22.6  | 6.77   | 1.53      | 57.5      | 13       | 1870  | 441  | NA    | NA   |
|          | 06/25/08 | 55.2  | 17    | 10.7  | 144   | 37.6   | 2.42      | 130.0     | 29.5     | 2680  | 632  | NA    | NA   |
|          | 07/29/08 | 52.6  | 16.2  | 311   | 81.3  | 25.9   | 5.88      | 252.0     | 57.2     | 5680  | 1340 | NA    | NA   |
|          | 08/13/08 | 449   | 139   | 504   | 132   | 164    | 37.3      | 393.0     | 89.2     | 9330  | 2200 | NA    | NA   |
|          | 09/18/08 | 69.6  | 21.4  | 181   | 47.4  | 9.95   | 2.26      | 134.0     | 30.4     | 3030  | 713  | NA    | NA   |
|          | 10/13/08 | 3.88  | 1.19  | 11.1  | 2.90  | 0.829  | 0.188     | 7.23      | 1.64     | 1640  | 387  | NA    | NA   |
|          | 11/10/08 | 18.1  | 5.59  | 51.2  | 13.4  | 5.18   | 1.17      | 47.9      | 10.9     | 669   | 158  | NA    | NA   |
|          | 12/15/08 |       |       |       |       | Syste  | em down ι | unable to | sample   |       |      |       |      |
|          | 01/13/09 |       |       |       |       | Syste  | em down ι | unable to | sample   |       |      |       |      |
|          | 02/25/09 | 3.83  | 1.18  | 7.61  | 1.99  | 0.262  | 0.0593    | 3.76      | 0.852    | 174   | 40.9 | NA    | NA   |
|          | 03/30/09 | 3.33  | 1.03  | 7.9   | 2.06  | 0.589  | 0.134     | 6.43      | 1.46     | 97.1  | 22.9 | NA    | NA   |
|          | 04/21/09 | 3.46  | 1.07  | 8.38  | 2.19  | 0.563  | 0.128     | 5.28      | 1.2      | 82.0  | 19.3 | NA    | NA   |
|          | 05/21/09 | 0.996 | 0.307 | 2.35  | 0.615 | 0.120  | 0.0273    | 1.77      | 0.401    | 43.8  | 10.3 | NA    | NA   |
|          | 06/25/09 | 5.62  | 1.73  | 12.3  | 3.21  | 0.47   | 0.107     | 11.1      | 2.52     | 278   | 65.5 | NA    | NA   |

|          |          | Benz     | zene   | Tolu    | lene  | Ethylb  | enzene | Xylene | s, total | TP    | H-g  | TP     | H-d  |
|----------|----------|----------|--------|---------|-------|---------|--------|--------|----------|-------|------|--------|------|
| Location | Date     | mg/m3    | ppmV   | mg/m3   | ppmV  | mg/m3   | ppmV   | mg/m3  | ppmV     | mg/m3 | ppmV | mg/m3  | ppmV |
| Effluent | 02/13/03 | < 0.002  | NA     | 0.002   | NA    | <0.001  | NA     | NA     | NA       | 0.023 | NA   | NA     | NA   |
|          | 02/24/03 | NA       | 0.3    | NA      | 1.4   | NA      | 0.3    | NA     | NA       | NA    | NA   | NA     | NA   |
|          | 04/08/03 | < 0.002  | NA     | < 0.001 | NA    | < 0.001 | NA     | NA     | NA       | 0.022 | NA   | <0.013 | NA   |
|          | 06/20/03 | 0.064    | NA     | <0.026  | NA    | <0.023  | NA     | <0.045 | NA       | <2.36 | NA   | NA     | NA   |
|          | 07/11/03 | 0.641    | NA     | 0.086   | NA    | <0.023  | NA     | <0.045 | NA       | <2.36 | NA   | NA     | NA   |
|          | 08/07/03 | <0.031   | NA     | 0.089   | NA    | <0.023  | NA     | 0.067  | NA       | <2.36 | NA   | NA     | NA   |
|          | 10/15/03 | < 0.0308 | NA     | <0.026  | NA    | <0.023  | NA     | <0.045 | NA       | <2.36 | NA   | NA     | NA   |
|          | 12/18/03 | <0.100   | NA     | <0.100  | NA    | <0.100  | NA     | <0.200 | NA       | <10   | NA   | NA     | NA   |
|          | 02/05/04 | <0.100   | NA     | 0.359   | NA    | <0.100  | NA     | 0.338  | NA       | <10   | NA   | NA     | NA   |
|          | 03/16/04 | 0.156    | NA     | 0.134   | NA    | <0.100  | NA     | <0.200 | NA       | <10   | NA   | NA     | NA   |
|          | 07/02/04 | 0.358    | NA     | 0.436   | NA    | <0.100  | NA     | 0.397  | NA       | 21.2  | NA   | NA     | NA   |
|          | 12/22/04 | <0.100   | <0.031 | 0.146   | 0.038 | <0.100  | <0.023 | <0.200 | <0.045   | <10   | 2.36 | NA     | NA   |
|          | 06/08/05 | <0.447   | 0.138  | 0.731   | 0.191 | <0.100  | <0.023 | <0.425 | 0.096    | <11.2 | 2.63 | NA     | NA   |
|          | 09/30/05 | <2       | NA     | <3      | NA    | <2      | NA     | <3     | NA       | 9.4   | NA   | NA     | NA   |
|          | 10/31/05 | NA       | <0.5   | NA      | 1     | NA      | <0.4   | NA     | <0.7     | NA    | 11   | NA     | NA   |
|          | 11/30/05 | <2       | <0.5   | <3      | <0.8  | <2      | <0.4   | <3     | <0.7     | 18.3  | 1.8  | NA     | NA   |
|          | 12/29/05 | NA       | <0.5   | NA      | <0.8  | NA      | <0.4   | NA     | <0.7     | NA    | 3.9  | NA     | NA   |
|          | 01/31/06 | <2       | <0.5   | <3      | <0.8  | <2      | <0.4   | <3     | <0.7     | <3.5  | <1.0 | NA     | NA   |
|          | 02/23/06 | <2       | <0.5   | <3      | <0.8  | <2      | <0.4   | <3     | <0.7     | 3.8   | 1.1  | NA     | NA   |
|          | 03/30/06 | <2       | <0.5   | <3      | <0.8  | <2      | <0.4   | <3     | <0.7     | 13    | 3.7  | NA     | NA   |

|            |            | Ben    | zene     | Toluene |          | Ethylbenzene |                              | Xylenes, total |          | TPH-g |       | TPH-d |      |
|------------|------------|--------|----------|---------|----------|--------------|------------------------------|----------------|----------|-------|-------|-------|------|
| Location   | Date       | mg/m3  | ppmV     | mg/m3   | ppmV     | mg/m3        | ppmV                         | mg/m3          | ppmV     | mg/m3 | ppmV  | mg/m3 | ppmV |
| Effluent   | 06/09/06   | <2     | <0.5     | <3      | <0.8     | <2           | <0.4                         | <3             | <0.7     | 3.8   | 1.1   | NA    | NA   |
|            | 09/12/06   | <2     | <0.5     | <3      | <0.8     | <2           | < 0.4                        | <3             | <0.7     | 35    | 10    | NA    | NA   |
|            | 01/31/07   | <2     | <0.5     | <3      | <0.8     | <2           | <0.4                         | <3             | <0.7     | <3.5  | <1.0  | NA    | NA   |
|            | 05/11/07   | <2     | <0.5     | <3      | <0.8     | <2           | <0.4                         | <3             | <0.7     | 8.1   | 2.3   | NA    | NA   |
|            | 06/21/07   | <2     | <0.5     | 4       | 1        | <2           | <0.4                         | 6              | 1        | 19    | 5.5   | NA    | NA   |
|            | 07/31/07   | <0.1   | < 0.0308 | 0.379   | 0.099    | <0.1         | < 0.0227                     | 0.954          | 0.216    | 10.3  | 2.43  | NA    | NA   |
|            | 08/22/07   | 0.154  | 0.0475   | 0.77    | 0.201    | 0.149        | 0.0338                       | 1.69           | 0.383    | 15.1  | 3.55  | NA    | NA   |
|            | 09/27/07   | 0.523  | 0.161    | 1.96    | 0.511    | 0.167        | 0.0371                       | 1.32           | 0.299    | 19.5  | 4.6   | NA    | NA   |
|            | 10/25/07   | <0.100 | < 0.0308 | 0.128   | 0.0344   | <0.100       | < 0.0227                     | 0.233          | 0.0528   | <10.0 | <2.36 | NA    | NA   |
|            | 11/28/07   | 0.256  | 0.0789   | 1.57    | 0.41     | 0.208        | 0.0471                       | 2.59           | 0.587    | 15.3  | 3.6   | NA    | NA   |
|            | 12/18/07   | <0.100 | < 0.0308 | <0.100  | <0.0261  | <0.100       | < 0.0227                     | <0.200         | < 0.0454 | <10   | <2.36 | NA    | NA   |
|            | 01/16/08   | <0.100 | < 0.0308 | 0.232   | 0.0607   | <0.100       | < 0.0227                     | 0.244          | 0.0553   | <10   | <2.36 | NA    | NA   |
|            | 02/14/08   | <0.100 | < 0.0308 | 0.104   | 0.0273   | <0.100       | < 0.0227                     | 0.269          | 0.0610   | <10   | <2.36 | NA    | NA   |
|            | 03/19/08   | <0.100 | < 0.0308 | <0.100  | <0.0261  | <0.100       | < 0.0227                     | <0.200         | < 0.0454 | <10   | <2.36 | NA    | NA   |
|            | 04/09/08   | <0.100 | < 0.0308 | <0.100  | <0.0261  | <0.100       | < 0.0227                     | <0.200         | < 0.0454 | <10   | <2.36 | NA    | NA   |
|            | 05/21/08   | <0.100 | < 0.0308 | <0.100  | < 0.0261 | <0.100       | < 0.0227                     | <0.200         | < 0.0454 | <10   | <2.36 | NA    | NA   |
|            | 06/25/08   | <0.100 | < 0.0308 | <0.100  | < 0.0261 | <0.100       | < 0.0227                     | 0.266          | 0.0603   | <10   | <2.36 | NA    | NA   |
|            | 07/29/08   | <0.100 | < 0.0308 | <0.100  | <0.0261  | <0.100       | < 0.0227                     | 0.367          | 0.0832   | <10   | <2.36 | NA    | NA   |
|            | 08/13/08   | <0.100 | < 0.0308 | <0.100  | < 0.0261 | <0.100       | < 0.0227                     | <0.200         | < 0.0454 | <10   | <2.36 | NA    | NA   |
|            | 09/18/08   | <0.100 | < 0.0308 | <0.100  | <0.0261  | <0.100       | < 0.0227                     | <0.200         | < 0.0454 | <10   | <2.36 | NA    | NA   |
|            | 10/13/08   | <0.100 | < 0.0308 | <0.100  | < 0.0261 | <0.100       | < 0.0227                     | <0.200         | < 0.0454 | <10   | <2.36 | NA    | NA   |
|            | 11/10/08   | <0.100 | < 0.0308 | <0.100  | < 0.0261 | <0.100       | < 0.0227                     |                | < 0.0454 | <10   | <2.36 | NA    | NA   |
|            | 12/15/08   |        |          |         |          | Syste        | System down unable to sample |                |          |       |       |       |      |
|            | 01/13/09   |        |          |         |          |              | m down ι                     |                | sample   |       |       |       |      |
|            | 02/25/09   |        | < 0.0308 |         | < 0.0261 |              | < 0.0227                     |                | < 0.0454 | <10   | <2.36 | NA    | NA   |
|            | 03/30/09   | <0.100 | < 0.0308 | <0.100  | <0.0261  | <0.100       | < 0.0227                     | <0.200         | < 0.0454 | <10   | <2.36 | NA    | NA   |
|            | 04/21/09   | <0.100 | < 0.0308 | <0.100  | <0.0261  | <0.100       | < 0.0227                     | <0.200         | < 0.0454 | <10   | <2.36 | NA    | NA   |
|            | 05/21/09   | <0.100 | < 0.0308 | <0.100  | <0.0261  | <0.100       | < 0.0227                     | <0.200         | < 0.0454 | 10.3  | 2.42  | NA    | NA   |
|            | 06/25/09   | <0.100 | <0.0308  | <0.100  | <0.0261  | <0.100       | <0.0227                      | <0.200         | <0.0454  | <10   | <2.36 | NA    | NA   |
| Effluent P | ermit Limi | ts     |          |         |          |              |                              |                |          |       | 30    |       |      |

Notes:

mg/m3 = milligram per cubic meter ppmV = parts per million by volume TPH-g = Total Petroleum Hydrocarbons as gasoline TPH-d = Total Petroleum Hydrocarbons as diesel NA = not applicable/not analyzed

## TABLE 3 GROUNDWATER TREATMENT SYSTEM ANALYTICAL RESULTS CONOCOPHILLIPS RENTON TERMINAL RM&R #03485

|          |          | Benzene                      | Toluene | Ethylbenzene | Xylenes<br>(total) | TPH-g       | TPH-d  | TPH-o  | Oil &<br>Grease<br>(HEM) | TPH<br>(SGT-<br>HEM) |
|----------|----------|------------------------------|---------|--------------|--------------------|-------------|--------|--------|--------------------------|----------------------|
| Location | Date     | ug/l                         | ug/l    | ug/l         | ug/l               | ug/l        | ug/l   | ug/l   | mg/l                     | mg/l                 |
| Influent | 07/07/03 | 45,200                       | 81,200  | 3,840        | 21,700             | 33,100      | 3.47   | 0.63   | NA                       | NA                   |
|          | 09/11/03 | 37,500                       | 76,700  | 2,810        | 22,400             | 320,000     | 2.74   | <0.500 | NA                       | NA                   |
|          | 12/18/03 | 4,060                        | 14,500  | 1,690        | 11,800             | 73,100      | 34.8   | <10    | NA                       | NA                   |
|          | 01/23/04 | 389                          | 3,900   | 69           | 7,140              | 34,700      | NA     | NA     | NA                       | NA                   |
|          | 02/05/04 | 3,180                        | 6,930   | 783          | 5,350              | 40,000      | NA     | NA     | NA                       | NA                   |
|          | 03/16/04 | 5,530                        | 9,480   | 520          | 4,810              | 43,500      | NA     | NA     | NA                       | NA                   |
|          | 07/02/04 | 3                            | 11      | 4            | 104                | 967         | 1.37   | <0.500 | 20.2                     | 10.5                 |
|          | 12/22/04 | 11,000                       | 15,300  | 1,100        | 8,030              | 79,300      | NA     | <5.00  | <5.00                    | NA                   |
|          | 06/08/05 | 28,300                       | 36,500  | 1,370        | 15,300             | 173,000     | NA     | NA     | NA                       | NA                   |
|          | 09/30/05 | 12,000                       | 17,000  | 720          | 10,000             | 81,000      | 2,800  | 530    | NA                       | NA                   |
|          | 12/29/05 | 11,000                       | 26,000  | 2,100        | 17,000             | 160,000     | 3,100  | <200   | NA                       | NA                   |
|          | 02/24/06 | 11,000                       | 25,000  | 1,800        | 16,000             | 160,000     | 3,500  | <480   | NA                       | NA                   |
|          | 03/30/06 | 7,400                        | 16,000  | 1,000        | 1,000              | 110,000     | NA     | NA     | NA                       | NA                   |
|          | 09/12/06 | 4,000                        | 5,400   | 200          | 4,100              | 36,000      | NA     | NA     | NA                       | NA                   |
|          | 01/31/07 | 14,000                       | 27,000  | 1,800        | 13,000             | 160,000     | 4,000  | <480   | NA                       | NA                   |
|          | 05/11/07 | 15,000                       | 24,000  | 1,300        | 12,000             | 140,000     | 7,100  | 650    | NA                       | NA                   |
|          | 06/21/07 | 17,000                       | 26,000  | 720          | 13,000             | 130,000     | 41,000 | <4700  | NA                       | NA                   |
|          | 07/26/07 | 7,400                        | 8,900   | 120          | 6,000              | 70,000      | 5,800  | <960   | NA                       | NA                   |
|          | 08/22/07 | 3,800                        | 4,300   | 110          | 5,000              | 46,000      | 3,400  | <500   | NA                       | NA                   |
|          | 09/20/07 | 5,800                        | 11,000  | 380          | 8,900              | 85,000      | 5,700  | 1,000  | NA                       | NA                   |
|          | 10/25/07 | 5,000                        | 14,000  | 1,200        | 13,000             | 120,000     | 29,000 | 11,000 | NA                       | NA                   |
|          | 11/28/07 | 6,000                        | 10,000  | 550          | 14,000             | 110,000     | 6,800  | <940   | NA                       | NA                   |
|          | 12/18/07 | 4,900                        | 8,900   | 450          | 11,000             | 100,000     | 22,000 | <4,900 | NA                       | NA                   |
|          | 01/16/08 | 6,500                        | 12,000  | 630          | 15,000             | 130,000     | 17,000 | <4,800 | NA                       | NA                   |
|          | 02/14/08 | 6,200                        | 12,000  | 700          | 15,000             | 130,000     | 11,000 | <2,400 | NA                       | NA                   |
|          | 03/19/08 | 6,000                        | 12,000  | 690          | 13,000             | 130,000     | 16,000 | <2,400 | NA                       | NA                   |
|          | 04/22/08 | 12,000                       | 25,000  | 1,400        | 15,000             | 150,000     | 5,100  | <1,900 | NA                       | NA                   |
|          | 10/13/08 | 9,900                        | 16,000  | 480          | 9,600              | 80,000      | 4,800  | <470   | NA                       | NA                   |
|          | 11/10/08 | 2,100                        | 3,200   | 78           | 3,600              | 26,000      | 3,200  | <330   | NA                       | NA                   |
|          | 12/15/08 |                              |         | Sys          | tem down           | unable to s | sample |        |                          |                      |
|          | 01/13/09 | System down unable to sample |         |              |                    |             |        |        |                          |                      |
|          | 02/25/09 | 18,000                       | 30,000  | 1,300        | 12,000             | 142,000     | 3,000  | 760    | NA                       | NA                   |
|          | 03/26/09 | 14,000                       | 29,000  | 1,400        | 11,000             | 81,500      | 980    | <400   | NA                       | NA                   |

2423 Lind Avenue SW, Renton, Washington

## TABLE 3 GROUNDWATER TREATMENT SYSTEM ANALYTICAL RESULTS CONOCOPHILLIPS RENTON TERMINAL RM&R #03485

| Location | Date     | Benzene<br>ug/l | Toluene<br>ug/l              | Ethylbenzene<br>ug/l | Xylenes<br>(total)<br>ug/l | TPH-g<br>ug/l | TPH-d<br>ug/l | TPH-o<br>ug/l | Oil &<br>Grease<br>(HEM)<br>mg/l | TPH<br>(SGT-<br>HEM)<br>mg/l |  |
|----------|----------|-----------------|------------------------------|----------------------|----------------------------|---------------|---------------|---------------|----------------------------------|------------------------------|--|
| Influent | 04/21/09 | 15,000          | 27,000                       | 1,600                | 12,000                     | 105,000       | 1,100         | <400          | NA                               | NA                           |  |
|          | 05/21/09 |                 | System down unable to sample |                      |                            |               |               |               |                                  |                              |  |
|          | 06/25/09 |                 | System down unable to sample |                      |                            |               |               |               |                                  |                              |  |

2423 Lind Avenue SW, Renton, Washington

## TABLE 3 GROUNDWATER TREATMENT SYSTEM ANALYTICAL RESULTS CONOCOPHILLIPS RENTON TERMINAL RM&R #03485

|              |          | Benzene                      | Toluene | Ethylbenzene | Xylenes<br>(total) | TPH-g       | TPH-d | TPH-o  | Oil &<br>Grease<br>(HEM) | TPH<br>(SGT-<br>HEM) |  |  |
|--------------|----------|------------------------------|---------|--------------|--------------------|-------------|-------|--------|--------------------------|----------------------|--|--|
| Location     | Date     | ug/l                         | ug/l    | ug/l         | ug/l               | ug/l        | ug/l  | ug/l   | mg/l                     | mg/l                 |  |  |
| Air Stripper | 01/23/04 | 10.5                         | 28.4    | 3.38         | 119                | 4,010       | NA    | NA     | NA                       | NA                   |  |  |
| Effluent     | 02/05/04 | 24.7                         | 39.9    | 9.38         | 76.9               | 2,370       | NA    | NA     | NA                       | NA                   |  |  |
|              | 03/16/04 | 244                          | 483     | 34.7         | 359                | 4,710       | NA    | NA     | NA                       | NA                   |  |  |
|              | 07/02/04 | <0.5                         | <0.5    | 0.513        | 1.57               | 104         | 0.324 | <0.5   | <5                       | <5                   |  |  |
|              | 12/22/04 | 2.32                         | 5.27    | 1.54         | 10.7               | 529         | NA    | NA     | <5                       | <5                   |  |  |
|              | 06/08/05 | 16.5                         | 11.5    | <5           | 7.89               | 97.9        | NA    | NA     | NA                       | NA                   |  |  |
|              | 12/29/05 | 280                          | 640     | 45           | 480                | 4,900       | 2,800 | <100   | NA                       | NA                   |  |  |
|              | 02/24/06 | 210                          | 450     | 28           | 350                | 4,100       | 3,300 | <520   | NA                       | NA                   |  |  |
|              | 03/30/06 | 68                           | 82      | 1            | 73                 | 490         | NA    | NA     | NA                       | NA                   |  |  |
|              | 09/12/06 | 14                           | 16      | 0.4          | 20                 | 230         | NA    | NA     | NA                       | NA                   |  |  |
|              | 01/31/07 | 510                          | 930     | 54           | 580                | 6,300       | 4,000 | <480   | NA                       | NA                   |  |  |
|              | 05/11/07 | 1,100                        | 1,600   | 47           | 1,100              | 10,000      | 3,600 | <480   | NA                       | NA                   |  |  |
|              | 06/21/07 | 4,000                        | 5,500   | 77           | 3,200              | 31,000      | 3,300 | <510   | NA                       | NA                   |  |  |
|              | 07/26/07 | 16                           | 14      | 1            | 53                 | 720         | 2,500 | <510   | NA                       | NA                   |  |  |
|              | 08/22/07 | NA                           | NA      | NA           | NA                 | NA          | 2,600 | <200   | NA                       | NA                   |  |  |
|              | 09/20/07 | 2,900                        | 4,400   | 42           | 4,800              | 36,000      | 1,700 | <480   | NA                       | NA                   |  |  |
|              | 10/25/07 | 530                          | 1,400   | 79           | 1,300              | 12,000      | 2,700 | <480   | NA                       | NA                   |  |  |
|              | 11/28/07 | 56                           | 110     | 3.6          | 190                | 2,500       | 3,800 | <1,100 | NA                       | NA                   |  |  |
|              | 12/18/08 | 25                           | 34      | 0.8          | 140                | 1,900       | 4,000 | <490   | NA                       | NA                   |  |  |
|              | 01/16/08 | 4,500                        | 7,200   | 120          | 10,000             | 82,000      | 6,700 | <990   | NA                       | NA                   |  |  |
|              | 02/14/08 | 5,600                        | 9,200   | 140          | 7,100              | 64,000      | 5,200 | <2,000 | NA                       | NA                   |  |  |
|              | 03/19/08 | 110                          | 210     | 8.1          | 150                | 1,800       | 3,200 | <500   | NA                       | NA                   |  |  |
|              | 04/22/08 | 15                           | 24      | 0.9          | 45                 | 630         | 3,600 | <1000  | NA                       | NA                   |  |  |
|              | 10/13/08 | 29                           | 43      | 0.8          | 66                 | 340         | 3,700 | <470   | NA                       | NA                   |  |  |
|              | 11/10/08 | 580                          | 780     | 22           | 1,100              | 620         | 2,400 | <330   | NA                       | NA                   |  |  |
|              | 12/15/08 |                              |         |              | stem down          |             |       |        |                          |                      |  |  |
|              | 01/13/09 |                              |         | Sys          | stem down          | unable to s | ample |        |                          |                      |  |  |
|              | 02/25/09 | 240                          | 350     | 15           | 330                | 2,110       | 250   | <380   | NA                       | NA                   |  |  |
|              | 03/26/09 | 5,200                        | 9,000   | 430          | 4,400              | 39,300      | 490   | <430   | NA                       | NA                   |  |  |
|              | 04/21/09 | 280                          | 5,700   | <1.0         | 2,800              | 19,700      | 820   | <530   | NA                       | NA                   |  |  |
|              | 05/21/09 |                              | ,       | Svs          | stem down          | unable to s | ample |        |                          |                      |  |  |
|              | 06/25/09 | System down unable to sample |         |              |                    |             |       |        |                          |                      |  |  |

2423 Lind Avenue SW, Renton, Washington

# TABLE 3 GROUNDWATER TREATMENT SYSTEM ANALYTICAL RESULTS CONOCOPHILLIPS RENTON TERMINAL RM&R #03485

| Location         | Date     | Benzene<br>ug/l | Toluene<br>ug/l | Ethylbenzene<br>ug/l | Xylenes<br>(total)<br>ug/l | TPH-g<br>ug/l | TPH-d<br>ug/l | TPH-o<br>ug/l | Oil &<br>Grease<br>(HEM)<br>mg/l | TPH<br>(SGT-<br>HEM)<br>mg/l |
|------------------|----------|-----------------|-----------------|----------------------|----------------------------|---------------|---------------|---------------|----------------------------------|------------------------------|
| Carbon Mid Point | 06/21/07 | <0.2            | < 0.2           | <0.2                 | <0.6                       | <50           | NA            | NA            | NA                               | NA                           |
|                  | 07/26/07 | <0.5            | <0.7            | <0.8                 | <0.8                       | <50           | NA            | NA            | NA                               | NA                           |
|                  | 08/22/07 | <0.2            | <0.2            | <0.2                 | <0.6                       | <50           | NA            | NA            | NA                               | NA                           |
|                  | 09/20/07 | 0.3             | 0.6             | <0.2                 | 0.7                        | NA            | NA            | NA            | NA                               | NA                           |
|                  | 10/25/07 | <0.2            | 0.2             | <0.2                 | <0.6                       | <50           | NA            | NA            | NA                               | NA                           |
|                  | 11/28/07 | <0.2            | <0.2            | <0.2                 | <0.6                       | <50           | NA            | NA            | NA                               | NA                           |
|                  | 12/18/07 | 0.8             | 0.4             | <0.2                 | 1.6                        | 85            | NA            | NA            | NA                               | NA                           |
|                  | 01/16/08 | 2.8             | 3.7             | <0.2                 | 7.6                        | 120           | NA            | NA            | NA                               | NA                           |
|                  | 02/14/08 | 0.3             | <0.2            | <0.2                 | <0.6                       | <50           | NA            | NA            | NA                               | NA                           |
|                  | 03/19/08 | 0.9             | 0.3             | <0.2                 | <0.6                       | <50           | NA            | NA            | NA                               | NA                           |
|                  | 04/22/08 | 1.1             | 0.3             | <0.2                 | <0.6                       | <50           | NA            | NA            | NA                               | NA                           |
|                  | 10/13/08 | <0.5            | <0.7            | <0.8                 | <0.8                       | <50           | <75           | <94           | NA                               | NA                           |
|                  | 11/10/08 | <0.5            | <0.7            | <0.8                 | <0.8                       | <50           | 3,500         | 770           | NA                               | NA                           |
|                  | 12/15/08 |                 |                 | Sys                  | stem down                  | unable to s   | ample         |               |                                  |                              |
|                  | 01/13/09 |                 |                 | Sys                  | stem down                  | unable to s   | ample         |               |                                  |                              |
|                  | 02/25/09 | 21              | 12              | <1.0                 | 5                          | 58            | <82           | <410          | NA                               | NA                           |
|                  | 03/26/09 | 20              | 7.9             | <1.0                 | 3.1                        | <50           | <80           | <400          | NA                               | NA                           |
|                  | 04/21/09 | <1.0            | 1.9             | <1.0                 | <1.0                       | 63.5          | <100          |               |                                  |                              |
|                  | 05/21/09 |                 |                 |                      | stem down                  | unable to s   | ample         |               |                                  |                              |
|                  | 06/25/09 |                 |                 |                      | stem down                  |               |               |               |                                  |                              |

2423 Lind Avenue SW, Renton, Washington

# TABLE 3 GROUNDWATER TREATMENT SYSTEM ANALYTICAL RESULTS CONOCOPHILLIPS RENTON TERMINAL RM&R #03485

| Location | Date     | Benzene<br>ug/l | Toluene<br>ug/l | Ethylbenzene<br>ug/l | Xylenes<br>(total)<br>ug/l | TPH-g<br>ug/l | TPH-d<br>ug/l | TPH-o<br>ug/l | Oil &<br>Grease<br>(HEM)<br>mg/l | TPH<br>(SGT-<br>HEM)<br>mg/l |
|----------|----------|-----------------|-----------------|----------------------|----------------------------|---------------|---------------|---------------|----------------------------------|------------------------------|
| Effluent | 07/07/03 | 4.87            | 18.5            | 1.63                 | 16.7                       | 345           | 2.42          | <0.500        | NA                               | NA                           |
| Linden   | 09/11/03 | 11.6            | 23.7            | <5                   | 68.7                       | 2480          | NA            | NA            | NA                               | NA                           |
|          | 12/18/03 | 284             | 1,110           | 135                  | 1080                       | 7550          | 22.1          | <5            | NA                               | NA                           |
|          | 01/23/04 | < 0.500         | < 0.500         | <0.500               | <1.00                      | <50.0         | NA            | NA            | NA                               | NA                           |
|          | 02/05/04 | < 0.500         | < 0.500         | <0.500               | <1.00                      | <50.0         | NA            | NA            | NA                               | NA                           |
|          | 03/16/04 | < 0.500         | < 0.500         | <0.500               | <1.00                      | <50.0         | NA            | NA            | NA                               | NA                           |
|          | 07/02/04 | < 0.500         | <0.500          | <0.500               | <1.00                      | <50.0         | <0.250        | <0.500        | <5.00                            | <5.00                        |
|          | 12/22/04 | < 0.500         | < 0.500         | <0.500               | <1.00                      | <50.0         | <0.250        | < 0.500       | <5.00                            | <5.00                        |
|          | 09/30/05 | 3.1             | 0.4             | <0.2                 | <0.6                       | <48           | <75           | <94           | NA                               | NA                           |
|          | 12/29/05 | 93              | 170             | 7.3                  | 120                        | 1300          | 900           | <100          | NA                               | NA                           |
|          | 02/24/06 | <0.5            | <0.7            | <0.8                 | <0.8                       | <48           | <79           | <98           | NA                               | NA                           |
|          | 03/30/06 | <0.5            | <0.7            | <0.8                 | <0.8                       | <48           | NA            | NA            | NA                               | NA                           |
|          | 09/12/06 | <0.2            | 0.3             | <0.2                 | <0.6                       | <48           | NA            | NA            | NA                               | NA                           |
|          | 01/31/07 | 370             | 620             | 30                   | 500                        | 4900          | 679           | <100          | NA                               | NA                           |
|          | 05/11/07 | <0.2            | <0.2            | <0.2                 | <0.6                       | <50           | <77           | <97           | NA                               | NA                           |
|          | 06/21/07 | <0.2            | <0.2            | <0.2                 | <0.6                       | <50           | <76           | <95           | NA                               | NA                           |
|          | 07/26/07 | <0.5            | <0.7            | <0.8                 | <0.8                       | <50           | <77           | <96           | NA                               | NA                           |
|          | 08/22/07 | <0.2            | <0.2            | <0.2                 | <0.6                       | <50           | <77           | <97           | NA                               | NA                           |
|          | 09/20/07 | 0.3             | 0.6             | <0.2                 | 0.9                        | <50           | <78           | <97           | NA                               | NA                           |
|          | 10/25/07 | <0.2            | <0.2            | <0.2                 | <0.6                       | <50           | <79           | <99           | NA                               | NA                           |
|          | 11/28/07 | <0.2            | <0.2            | <0.2                 | <0.6                       | <50           | <82           | <100          | NA                               | NA                           |
|          | 12/18/07 | <0.2            | <0.2            | <0.2                 | <0.6                       | <50           | NA            | NA            | NA                               | NA                           |
|          | 01/16/08 | <0.2            | 0.3             | <0.2                 | 0.7                        | <50           | <78           | <98           | NA                               | NA                           |
|          | 02/14/08 | <0.2            | 0.3             | <0.2                 | 0.6                        | <50           | 120           | <96           | NA                               | NA                           |
|          | 03/19/08 | 0.9             | 0.7             | <0.2                 | 0.9                        | <50           | <77           | <97           | NA                               | NA                           |

2423 Lind Avenue SW, Renton, Washington

## TABLE 3 GROUNDWATER TREATMENT SYSTEM ANALYTICAL RESULTS CONOCOPHILLIPS RENTON TERMINAL RM&R #03485

| Location            | Date     | Benzene<br>ug/l | Toluene<br>ug/l | Ethylbenzene<br>ug/l | Xylenes<br>(total)<br>ug/l | TPH-g<br>ug/l | TPH-d<br>ug/l | TPH-o<br>ug/l | Oil &<br>Grease<br>(HEM)<br>mg/l | TPH<br>(SGT-<br>HEM)<br>mg/l |
|---------------------|----------|-----------------|-----------------|----------------------|----------------------------|---------------|---------------|---------------|----------------------------------|------------------------------|
| Effluent            | 04/22/08 | <0.2            | <0.2            | <0.2                 | <0.6                       | <50           | <78           | <98           | NA                               | NA                           |
|                     | 10/13/08 | <0.5            | <0.7            | <0.8                 | <0.8                       | <50           | <75           | <94           | NA                               | NA                           |
|                     | 11/10/08 | <0.5            | <0.7            | <0.8                 | <0.8                       | <50           | 3,200         | 1,400         | NA                               | NA                           |
|                     | 12/15/08 |                 |                 | Sys                  | stem down                  | unable to s   | sample        |               |                                  |                              |
|                     | 01/13/09 |                 |                 | Sys                  | stem down                  | unable to s   | sample        |               |                                  |                              |
|                     | 02/25/09 | <1.0            | <1.0            | <1.0                 | <1.0                       | <50.0         | <76           | <380          | NA                               | NA                           |
|                     | 03/26/09 | <1.0            | <1.0            | <1.0                 | <1.0                       | <50.0         | <80           | <400          | NA                               | NA                           |
|                     | 04/21/09 | <1.0            | <1.0            | <1.0                 | <1.0                       | <50.0         | <100          | <520          | NA                               | NA                           |
|                     | 05/21/09 |                 | -               | Svs                  | stem down                  | unable to s   | ample         | -             |                                  |                              |
|                     | 06/25/09 | 1               |                 | Sys                  | stem down                  | unable to s   | ample         |               |                                  |                              |
| Effluent Permit Lin | nits     | 130             | 150             | 1400                 |                            | 100,000       | 100,000       | 100,000       |                                  |                              |

2423 Lind Avenue SW, Renton, Washington

### Notes:

ug/I = micrograms per liter

mg/l = milligrams per liter

TPH-g = Total Petroleum Hydrocarbons as gasoline

TPH-d = Total Petroleum Hydrocarbons as diesel

TPH-o = Total Petroleum Hydrocarbons as oil

NA = not applicable/not analyzed

TPH-g = Ecology Method NWTPH-Gx

TPH-d = Ecology Method NWTPH-Dx with acid/silica gel cleanup

TPH-o = Ecology Method NWTPH-Dx with acid/silica gel cleanup

Oil/Grease Method = Ecology Method NWTPH-Dx with acid/silica gel cleanup

BTEX = USEPA Method 8021B

Bold = Above Effluent Permit Limits

## TABLE 4 ESTIMATED DPVE MASS REMOVAL SUMMARY CONOCOPHILLIPS RENTON TERMINAL

|                           |             |                    |                  |                  |                |                  |                | Removal          | Rate       |                    |             |              | -         |                  | Ма             | ss Remo        | ved           |
|---------------------------|-------------|--------------------|------------------|------------------|----------------|------------------|----------------|------------------|------------|--------------------|-------------|--------------|-----------|------------------|----------------|----------------|---------------|
|                           | Influent    |                    |                  |                  |                |                  |                |                  |            | Panal              |             | TPH          | Benzene   |                  | Total          | Total          |               |
|                           | PID         | TPH-               |                  |                  | Ethyl-         | Xylenes          | Flow           |                  |            | Panel<br>Hour      | Duration of | Monthly      | Monthly   | Total            | Benze          | TPH            |               |
|                           | reading     | G&D                | Benzene          | Toluene          | benzene        | (b)              | Rate           | TPH              | Benzene    | Meter              | Operation   |              |           | TPH              | ne             | (Gallon        | Total Benzene |
| Date                      | (ppm)       | (mg/m3)            | (mg/m3)          | (mg/m3)          | (mg/m3)        | (mg/m3)          | (scfm)         | (lbs/day)        | (lbs/day)  | (hrs)              | (days)      | (lbs)        | (lbs)     | (lbs)            | (lbs)          | s)             | (Gallons)     |
| February-03               | 330         | NC                 | (mg/mo)<br>NC    | (mg/mo)<br>NC    | (mg/mo)<br>NC  | (mg/ms)<br>NC    | 300            | (103/0437)       | NC         | 21591              | 0           | . ,          | (103)     | (63)             | (103)          | 3)             | (Calibris)    |
| February-03               | 200         | 2842.15            | 30.22            | 55.95            | 2.68           | 11.03            | 300            | 77               | 1          | 21610              | 1           | 61           | 1         | 0                | 0              | 0              | 0             |
| February-03               |             | 14716.94           | 205.57           | 879.55           | 77.83          | 375.14           | 300            | 397              | 6          | 21875              | 12          | 4396         |           | 4,396            | 61             | 687            | 10            |
| April-03                  | NR          | 8897.86            | 95.15            | 414.97           | 48.39          | 278.44           | 290            | 232              | 2          | 22610              | 42          | 7110         |           | 11,506           | 137            | 1,798          | 21            |
| April-03<br>June-03       | 801<br>1479 | 12275.96           | 115.03<br>273.00 | 596.79<br>531.00 | 74.81<br>75.60 | 469.00<br>412.00 | 290<br>290     | 320<br>206       | 3          | 22823<br>23802     | 51<br>92    | 2841<br>8404 | 27<br>291 | 14,347<br>22,751 | 164<br>455     | 2,242          | 26<br>71      |
| July-03                   | 1099        | 7890.00<br>8070.00 | 261.00           | 387.00           | 75.00          | 360.00           | 290            | 200              | 7          | 23002              | 102         | 2092         |           | 24,842           | 400<br>522     | 3,555<br>3,882 | 82            |
| August-03                 | NR          | 4980.00            | 206.00           | 425.00           | 29.10          | 138.00           | 420            | 188              | 8          | 24540              | 123         | 3925         |           | 28,767           | 685            | 4,495          | 107           |
| October-03                | NR          | 3310.00            | 140.00           | 350.00           | 28.70          | 151.00           | 420            | 125              | 5          | 25993              | 183         | 7575         | 320       | 36,342           |                | 5,678          | 157           |
| November-03               | 86          | 376.00             | 10.00            | 21.7             | 2.52           | 19.40            | 185            | 6                | 0.2        | 26464              | 203         | 123          |           | 36,465           | 1,009          | 5,698          | 158           |
| December-03               | 23.8<br>NR  | 497.00             | 14.80            | 64.4             | 9.27           | 54.80            | 270<br>270 (c) | 12               | 0.4        | 27112 (c)<br>27289 | 230<br>237  | 326<br>89    |           | 36,791           | 1,018          | 5,749<br>5,763 | 159           |
| December-03<br>January-04 | NR          |                    |                  |                  |                |                  | 270(0)         | 12 (c)<br>12 (c) |            | 27289              | 237         | 0            |           | 36,880<br>36,880 | 1,021<br>1,021 | 5,763          | 160<br>160    |
| February-04               | 7.6         | 45.50              | 3.45             | 6.8              | 0.92           | 6.69             | 270            | 1.1              | 0.1        | 27758              | 257         | 22           |           | 36,902           | 1,023          | 5,766          | 160           |
| March-04                  | 45          | 252.00             | 7.81             | 15.5             | 1.96           | 15.60            | 270            | 6.1              | 0.2        | 28563              | 291         | 205          |           |                  | 1,029          | 5,798          | 161           |
| April-04                  | 58          | 252.00             | 7.81             | 15.5             | 1.96           | 15.60            | 288            | 6.5              | 0.2        | 29137              | 314         | 156          |           | 37,263           | 1,034          | 5,822          | 162           |
| May-04                    | NR          | 252.00             | 7.81             | 15.5             | 1.96           | 15.60            | 288            | 6.5              | 0.2        | 29137              | 314         | 0            |           | 37,263           | 1,034          | 5,822          | 162           |
| June-04<br>July-04        | NR<br>NR    | 252.00<br>927.00   | 7.81<br>23.50    | 15.5<br>68.5     | 1.96<br>5.61   | 15.60<br>57.60   | 316<br>316     | 7.2<br>26.4      | 0.2<br>0.7 | 30036<br>30131     | 352<br>356  | 268<br>104   |           |                  | 1,042          | 5,864<br>5,881 | 163<br>163    |
| December-04               | 63          | 162.00             | 5.76             | 14.3             | 1.67           | 12.50            | 310            | 4.5              | 0.7        | 31818              | 426         | 318          |           | 37,954           |                | 5,930          | 165           |
| April-05                  | NR          | 162.00             | 5.76             | 14.3             | 1.67           | 12.50            | 150            | 2.2              | 0.1        | 33562              | 499         | 159          |           | 38,113           |                | 5,955          | 166           |
| May-05                    | 287         | 162.00             | 5.76             | 14.3             | 1.67           | 12.50            | 140            | 2.0              | 0.1        | 33749              | 507         | 16           |           |                  | 1,062          | 5,958          | 166           |
| June-05                   | 40          | 167.00             | 5.08             | 11.7             | 1.05           | 9.96             | 300            | 4.5              | 0.1        | 34146              | 523         | 75           |           | 38,203           |                | 5,969          | 166           |
| July-05<br>September-05   | 140<br>140  | 167.00<br>167.00   | 5.08<br>5.08     | 11.7<br>11.7     | 1.05<br>1.05   | 9.96<br>9.96     | 300<br>300     | 4.5<br>4.5       | 0.1<br>0.1 | 34930<br>35500     | 556<br>580  | 147<br>107   | 4         | 38,350<br>38,457 |                | 5,992          | 167<br>168    |
| September-05              | 140         | 60                 |                  | <3               | <2             | 9.90             | 300            | 4.5              | 0.1        | 35627              | 585         | 9            | •         |                  |                | 6,009<br>6,010 | 168           |
| October-05                | 166         | 715                |                  | 113.0            | 13             | 87               | 200 est        | 12.9             | 0.5        | 36079              | 604         | 242          |           | 38,708           | 1,081          | 6,048          | 169           |
| November-05               | NA          | 715                | 26               | 113.0            | 13             | 87               | 200 est        | 12.9             | 0.5        | 36713              | 630         | 340          |           |                  | 1,093          | 6,101          | 171           |
| December-05               | NA          | 113                |                  | 33.9             | 3              | 26               | 170            | 1.7              | 0.2        | 37148              | 648         | 31           | 4         |                  | 1,097          | 6,106          | 171           |
| January-06                | 0.4         | 113<br>100         |                  | 33.9<br>37.7     | 3              | 26<br>39         | 170<br>168     | 1.7<br>1.5       | 0.2<br>0.3 | 37337<br>37662     | 656<br>670  | 14<br>20     |           | 39,093<br>39,114 |                | 6,108<br>6,112 | 172<br>172    |
| February-06<br>March-06   | 90<br>5     | 100                | 20<br>20         | 37.7             | 3              | 39               | 168            | 1.5              | 0.3        | 38445              | 702         | 49           |           | 39,114           |                |                | 172           |
| April-06                  | 7           | 100                | 20               | 37.7             | 3              | 39               | 168            | 1.5              | 0.3        | 39078              | 729         | 40           |           | 39,203           |                | 6,125          | 175           |
| June-06                   | 42          | 160                | 10               | 30.0             | 2              | 30               | 168            | 2.4              | 0.2        | 39484              | 746         | 41           | 3         | 39,244           |                |                | 175           |
| June-06                   | 42          | 100                | 20               | 33.9             | 2              | 26               | 168 est        | 1.5              | 0.3        | 39509              | 747         | 2            | 0         | 39,246           | 1,123          | 6,132          | 175           |
| July-06                   | 42          | 100                | 20               | 33.9             | 2              | 26               | 168 est        | 1.5              | 0.3        | 39552              | 749         | 4            | 1         |                  | 1,124          | 6,133          | 176           |
| August-06                 | 42          | 100                | 20               | 33.9             | 2              | 26               | 168 est        | 1.5              | 0.3        | 39624              | 752         | 5            |           | 39,254           | 1,125          | 6,133          | 176           |
| September-06              | 414         | 600                |                  | 90.0             | 9              | 90               | 168 est        |                  | 0.2        | 39854              | 762         | 91           |           | 39,345           | 1,126          | 6,148          | 176           |
| October-06                | 414         | 600                | 10               | 90.0             | 9              | 90               | 168 est        |                  | 0.2        | 39981              | 767         | 45           |           | ,                | 1,127          | 6,155          | 176           |
| November-06               | 414         | 600                |                  | 90.0             | 9              | 90               | 0              | 0.0              | 0.0        | 39981              | 767         | 0            |           | 39,390           |                | 6,155          | 176           |
| December-06               | 414         | 600                | 10               | 90.0             | 9              | 90               | 0              | 0.0              | 0.0        | 39981              | 767         | 0            | -         | 39,390           |                |                | 176           |
| January-07                | 230         | 120                |                  | 90.0             |                |                  | 308 est        | 3.3              | 1.1        | 40095.2            | 772         | 16           |           | 39,406           |                |                | 177           |
| February-07               | 230         | 120                |                  |                  |                |                  | 308 ∋st        | 3.3              | 1.1        | 40335.2            | 782         |              |           | 39,439           |                |                | 179           |
| March-07                  | 230         | 120                |                  | 90.0             | 2              |                  | 0              | 0.0              | 0.0        | 40335.2            | 782         |              |           | 39,439           |                |                | 179           |
| April-07<br>June-07       | 230<br>316  | 120<br>130         |                  | 90.0<br>30.0     | 2              |                  | 308<br>308     | 3.3<br>3.6       | 1.1<br>0.6 | 40339.2<br>40729.5 | 782<br>798  | 1<br>59      | 0         | 39,440<br>39,498 |                |                | 179<br>180    |
| June-07                   | 305         | 130                |                  |                  | 0              |                  | 308            | 5.0              | 0.6        | 40729.5 41210.4    | 818         | 59<br>100    |           | 39,498           |                |                | 180           |
| July-07                   | 364         | 1370               |                  | 74.3             | 8              | 69               | 308            | 38.0             | 0.7        | 41619.7            | 836         | 648          |           |                  |                |                | 180           |
| August-07                 | 476         | 2760               |                  | 150.0            | 11             | 80.0             | 219            | 54.4             | 1.3        | 42075.9            | 855         | 1034         |           | 41,280           |                |                | 186           |
| September-07              | 2300        | 3670               |                  | 275.0            |                |                  | 210            | 69.4             | 1.9        | 42437.9            | 870         | 1046         |           | 42,326           |                |                | 190           |
| October-07                | 300         | 1300               |                  | 126.0            | 8              | 80.5             | 196            | 22.9             | 1.0        | 42801.9            | 885         | 348          |           | 42,674           |                |                | 193           |
| November-07               | 210         | 426                |                  | 98.1             | 4              | 44.8             | 190            | 7.3              | 1.0        | 43185.9            | 901         | 117          |           | 42,790           |                |                | 195           |
| December-07               | 52.2        | 104                |                  | 8.5              |                |                  | 168            | 1.6              | 0.1        | 43635.8            | 920         | 29           |           | 42,820           |                |                | 196           |
|                           |             |                    | 0.1              | 0.0              | 0.0            |                  |                |                  | •••        |                    | 0-0         | _0           | -         | , <b>0_0</b>     | .,             | 2,001          |               |

## TABLE 4 ESTIMATED DPVE MASS REMOVAL SUMMARY CONOCOPHILLIPS RENTON TERMINAL

|              |          |         |         |          |         |         |        | Removal   | Rate        |             |             |         | -       |        | Mas   | ss Remo | ved           |
|--------------|----------|---------|---------|----------|---------|---------|--------|-----------|-------------|-------------|-------------|---------|---------|--------|-------|---------|---------------|
|              | Influent |         |         |          |         |         |        |           |             | Panel       |             | TPH     | Benzene |        | Total | Total   |               |
|              | PID      | TPH-    |         |          | Ethyd   | Vulanca | Пон    |           |             |             | Duration of |         |         | Total  |       | TPH     |               |
|              |          |         | D       | <b>T</b> | Ethyl-  | Xylenes | Flow   |           | D           | Hour        | Duration of | Monthly | Monthly | Total  | Benze |         | Tatal Damasa  |
| <b>.</b> .   | reading  | G&D     | Benzene | Toluene  | benzene | (b)     | Rate   | TPH       | Benzene     | Meter       | Operation   | Removed |         | TPH    | ne    | (Gallon | Total Benzene |
| Date         | (ppm)    | (mg/m3) | (mg/m3) | (mg/m3)  | (mg/m3) | (mg/m3) | (scfm) | (lbs/day) | (lbs/day)   | (hrs)       | (days)      | (lbs)   | (lbs)   | (lbs)  | (lbs) | S)      | (Gallons)     |
| January-08   | 20.1     | 113     | 3.3     | 8.5      | 0.7     | 5.9     | 154    | 1.6       | 0.0         | 44282.8     | 946         | 42      | 1       | 42,862 |       | 6,697   | 196           |
| February-08  | 76       | 42.8    | 1.79    | 4.1      | 0.454   | 5.35    | 196    | 0.8       | 0.0         | 44982.8     | 976         | 22      | 1       | 42,884 | ,     | 6,701   | 196           |
| March-08     | 269      | 501     | 47.0    | 88.6     | 4.77    | 42.1    | 203    | 9.2       | 0.9         | 45482.8     | 996         | 191     | 18      | 43,075 | ,     | 6,730   | 199           |
| April-08     | 50.6     | 232     | 21.0    | 34.6     | 1.84    | 25.5    | 210    | 4.4       | 0.4         | 45914.2     | 1014        | 79      | 7       | 43,154 | 1,278 | 6,743   | 200           |
| May-08       | 87.4     | 203     | 4.3     | 11.6     | 0.89    | 11.1    | 168    | 3.1       | 0.1         | 46908.2     | 1056        | 127     | 3       | 43,281 | 1,281 | 6,763   | 200           |
| June-08      | 68.7     | 260     | 8.2     | 23.1     | 1.57    | 17.8    | 154    | 3.6       | 0.1         | 47746.6     | 1091        | 126     | 4       | 43,407 | 1,285 | 6,782   | 201           |
| July-08      | 129      | 667     | 11.5    | 43.2     | 2.77    | 35.2    | 175    | 10.5      | 0.2         | 48561.6     | 1125        | 357     | 6       | 43,763 | 1,291 | 6,838   | 202           |
| August-08    | 186      | 765     | 13.8    | 60.3     | 3.76    | 44.3    | 182    | 12.5      | 0.2         | 48920.2     | 1140        | 187     | 3       | 43,951 | 1,295 | 6,867   | 202           |
| September-08 | 122      | 628     | 11.3    | 35.4     | 2.96    | 30.9    | 182    | 10.3      | 0.2         | 49396.7     | 1160        | 204     | 4       | 44,155 | 1,298 | 6,899   | 203           |
| October-08   | 222      | 336     | 18.6    | 54.1     | 4.50    | 41.3    | 224    | 6.8       | 0.4         | 49711.5     | 1173        | 89      | 5       | 44,244 | 1,303 | 6,913   | 204           |
| November-08  | 44       | 123     | 5.0     | 14.6     | 1.47    | 14.6    | 210    | 2.3       | 0.1         | 50234.7     | 1194        | 51      | 2       | 44,294 | 1,305 | 6,921   | 204           |
| December-09  |          |         |         |          |         |         |        | Syste     | m down unab | e to sample |             |         |         |        |       | ,       |               |
| January-09   |          |         |         |          |         |         |        | Syste     | m down unab | e to sample |             |         |         |        |       |         |               |
| February-09  | 15.5     | 55.8    | 1.8     | 3.5      | 0.14    | 1.8     | 200    | 1.0       | 0.0         | 50902.4     | 1222        | 28      | 1       | 44,322 | 1,306 | 6,925   | 204           |
| March-09     | 16.5     | 54.2    | 2.2     | 5.4      | 0.38    | 4.2     | 210    | 1.0       | 0.0         | 51330.9     | 1240        | 18      | 1       | 44,341 | 1,307 | 6,928   | 204           |
| April-09     | 63.1     | 71.2    | 8.4     | 14.5     | 0.49    | 6.3     | 210    | 1.3       | 0.2         | 51853.6     | 1262        | 29      | 3       | 44,370 | ,     | 6,933   | 205           |
| May-09       | 2        | 20.4    | 0.3     | 0.5      | <0.100  | 0.2     | 210    | 0.4       | 0.0         | 52565.9     | 1292        | 11      | 0       | 44,381 | ,     | 6,935   | 205           |
| June-09      | 15       | 54.6    | 1.1     | 2.7      | 0.10    | 2.7     | 196    | 1.0       | 0.0         | 53258.3     | 1320        | 28      |         | 44,409 | ,     | 6,939   | 205           |
|              | Notes:   | 0.110   |         |          | 0.10    |         |        |           | 010         |             |             | _0      |         | ,      | .,    | 2,500   |               |

Notes:

TPH-G & D = Gasoline and Diesel Range Total Petroleum Hydrocarbons ppmv = parts per million by volume

mg/m3 = milligrams per cubic meter (assuming 60 degrees F and 1 atmosphere of pressure) mg/m3 concentration for TPH based on a molecular weight of 92 g/g-mol

NC = Not Collected

(a) Only TPH-G analyzed(b) Combined total reported for m, p, and o-xylenes

(c) Extrapolated value
 Analytical results prior to June 20, 2003 reported from TO-14/15 analysis using Suma canisters.
 Analytical results from June 20, 2003 forward reported from NWTPH Modified Method analysis using tedlar bags.
 est = Estimated

# TABLE 5 GROUNDWATER TREATMENT SYSTEM ANALYTICAL RESULTS CONOCOPHILLIPS RENTON TERMINAL RMR #03485 2423 Lind Avenue, Renton, WA

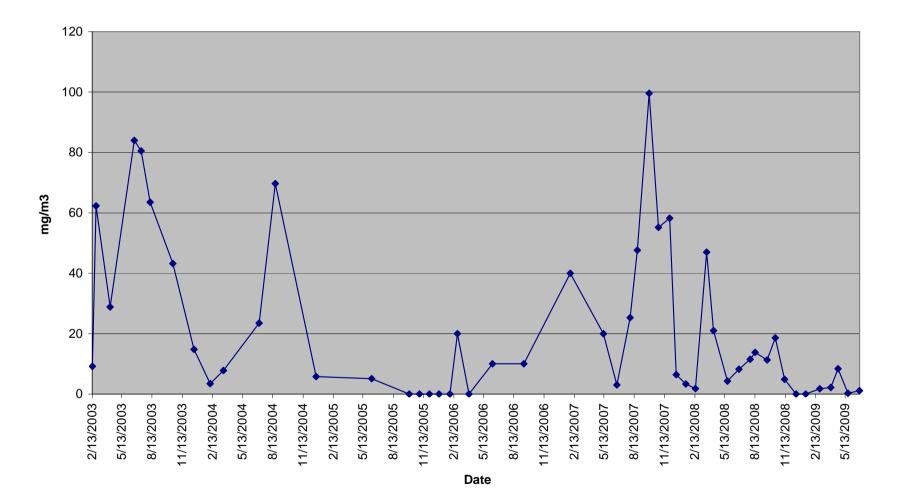
|          | Cumulative | Discharge  | Influent       | Effluent      | Benzene       | Influent TPH-G | Effleuent TPH- | TPH-G         | Benzene  | Cumulative | Monthly  | Cumulative |
|----------|------------|------------|----------------|---------------|---------------|----------------|----------------|---------------|----------|------------|----------|------------|
|          | Discharge, | between    | Benzene        | Benzene       | Concentratio  | Concentration, | G              | Concentratio  | Removed, | Benzene    | TPH-G    | TPH-G      |
|          | gallons    | samplings, | Concentration, | Concentration | n Difference, | ug/liter       | Concentration, | n Difference, | lbs      | Removed,   | Removed, | Removed,   |
| Date     | gailons    | gallons    | ua/liter       | . ua/liter    | ua/liter      | ug/iitei       | ua/liter       | ua/liter      | IDS      | lbs        | lbs      | lbs        |
| 07/07/03 | 3,340      | 3,340      | 45,200         | 4.87          | 45,195        | 33,100         | 345            | 32,755        | 1.26     | 1.26       | 0.91     | 0.91       |
| 09/11/03 | 20,637     | 17,297     | 37,500         | 11.6          | 37,488        | 320,000        | 2480           | 317,520       | 5.40     | 6.66       | 45.73    | 46.64      |
| 12/18/03 | 50,761     | 30,124     | 4,060          | 284           | 3,776         | 73,100         | 7550           | 65,550        | 0.95     | 7.60       | 16.44    | 63.08      |
| 01/23/04 | 64,987     | 14,226     | 389            | < 0.500       | 389           | 34,700         | <50.0          | 34,700        | 0.05     | 7.65       | 4.11     | 67.19      |
| 02/05/04 | 80,559     | 15,573     | 3,180          | <0.500        | 3,180         | 40,000         | <50.0          | 40,000        | 0.41     | 8.06       | 5.19     | 72.37      |
| 03/16/04 | 198,110    | 117,551    | 5,530          | <0.500        | 5,530         | 43,500         | <50.0          | 43,500        | 5.41     | 13.47      | 42.57    | 114.95     |
| 07/02/04 | 244,377    | 46,267     | 3              | <0.500        | 3             | 967            | <50.0          | 967           | 0.00     | 13.47      | 0.37     | 115.32     |
| 12/22/04 | 544,353    | 299,976    | 11,000         | <0.500        | 11,000        | 79,300         | <50.0          | 79,300        | 27.47    | 40.95      | 198.06   | 313.38     |
| 12/29/05 | 1,206,383  | 662,030    | 11,000         | 93            | 10,907        | 160,000        | 1300           | 158,700       | 60.12    | 101.07     | 874.76   | 1188.14    |
| 02/24/06 | 1,259,923  | 53,540     | 11,000         | <0.5          | 11,000        | 160,000        | <48            | 160,000       | 4.90     | 105.97     | 71.32    | 1259.47    |
| 03/30/06 | 1,345,773  | 85,850     | 7,400          | <0.5          | 7,400         | 110,000        | <48            | 110,000       | 5.29     | 111.26     | 78.63    | 1338.09    |
| 01/31/07 | 1,562,937  | 217,164    | 14,000         | 370           | 13,630        | 160,000        | 4900           | 155,100       | 24.64    | 135.91     | 280.44   | 1618.53    |
| 11/28/07 | 1,931,403  | 368,466    | 6,000          | <0.2          | 6,000         | 110,000        | <50            | 110,000       | 18.41    | 154.31     | 337.46   | 1955.99    |
| 12/18/07 | 2,031,297  | 99,895     | 4,900          | <0.2          | 4,900         | 100,000        | <50            | 100,000       | 4.08     | 158.39     | 83.17    | 2039.17    |
| 01/16/08 | 2,154,961  | 123,664    | 6,500          | <0.2          | 6,500         | 130,000        | <50            | 130,000       | 6.69     | 165.08     | 133.85   | 2173.02    |
| 03/19/08 | 2,254,648  | 99,687     | 6,000          | 0.9           | 5,999         | 130,000        | <50            | 130,000       | 4.98     | 170.06     | 107.90   | 2280.92    |
| 10/13/08 | 2,376,633  | 121,986    | 9,900          | <0.5          | 9,900         | 80,000         | <50            | 80,000        | 10.05    | 180.11     | 81.25    | 2362.17    |
| 11/10/08 | 2,430,613  | 53,980     | 2,100          | <0.5          | 2,100         | 26,000         | <50            | 26,000        | 0.94     | 181.06     | 11.69    | 2373.85    |
| 02/25/09 | 2,518,613  | 88,000     | 18,000         | <1.0          | 18,000        | 2,110          | <50            | 2,110         | 13.19    | 194.25     | 1.55     | 2375.40    |
| 03/26/09 | 2,542,273  | 23,660     | 14,000         | <1.0          | 14,000        | 39,300         | <50            | 39,300        | 2.76     | 197.00     | 7.74     | 2383.14    |
| 04/21/09 | 2,544,013  | 1,740      | 15,000         | <1.0          | 15,000        | 105,000        | <50            | 105,000       | 0.22     | 197.22     | 1.52     | 2384.66    |
| 05/21/09 |            |            |                |               |               |                |                |               |          |            |          |            |
| 06/25/09 |            |            |                |               |               |                |                |               |          |            |          |            |
|          |            |            |                |               |               |                |                |               |          |            |          |            |

Notes:

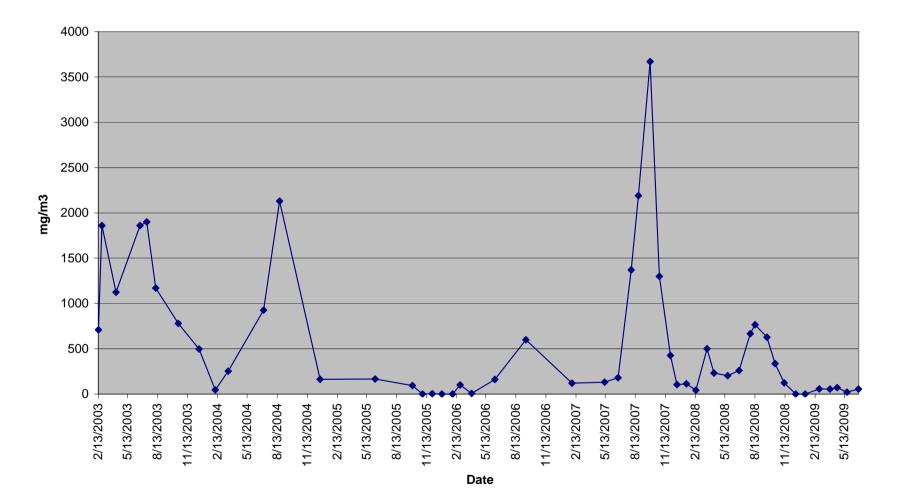
-- = Not Applicable, system down for repairs

GRAPHS

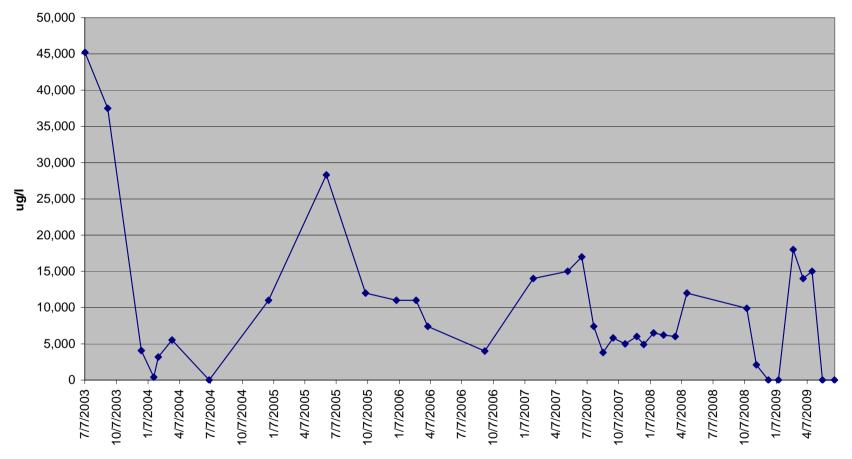
GRAPH 1 Benzene Influent Vapor Levels ConocoPhillips Renton Terminal RM&R 3485



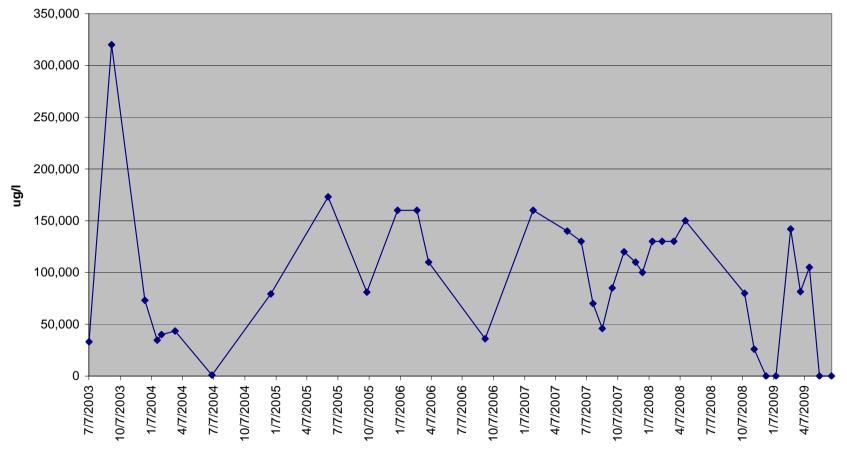
GRAPH 2 TPH-g Influent Vapor Levels ConocoPhillips Renton Terminal RM&R 3485



GRAPH 3 Benzene Influent Water Levels ConocoPhillips Renton Terminal RM&R 3485



GRAPH 4 TPH-g Influent Water Levels ConocoPhillips Renton Terminal RM&R 3485



Date

## ATTACHMENT A REMEDIATION SYSTEM OPERATIONAL LOGS

ConocoPhillips Company Facility Number 3485 2423 Lind Avenue SW Renton, Washington

SECOR PN: 01CP.03485.45

| Date: 4 7  |   | -                               | Time: 855               |   | -                                 | Inspected By:           | L. Rai                            | wlins                          |
|--|---|---------------------------------|-------------------------|---|-----------------------------------|-------------------------|-----------------------------------|--------------------------------|
| l<br>Maria   |   |                                 | General                 | Site Status   |                                   |                         |                                   |                                |
| Motor Control Cer  | nter checked fo   | r switch                        |                         |   | ed (yes/no):                      | YES                     |                                   |                                |
| tatus and that pan   | els are closed  |                                 | 725                     | Comments:   |                                   | •                       |                                   |                                |
| Flow meters check  | ed for operation  | n and leaks                     | yes<br>szü leak         | Tanks inspect   | ed for leaks, bi                  | io-growth               |                                   | YES                            |
|  |   | par                             | » or derestre           | System  |                                   |                         |                                   |                                |
| Ope  | rating on Arriv   | val (Yes/No):                   | YES                     |   | Operatio                          | ng on Departur          | e (Yes/No):                       | Y25                            |
| f No, what alarm   | s shut system d   | lown:                           | <b>1</b>                |   |                                   |                         |                                   |                                |
|  | System I  | Readings                        |                         |   | Quarterl                          | y Maintenanc            | e Items                           |                                |
|  | 27  | 66.4 -                          | 11538.2                 | Add/Changes   | oil in SVE blov                   |                         |                                   | ADORID                         |
| Hour Meter Readin  | ng (hrs)  | 771.8                           | 11320.2                 | A second s | r in KO Drum                      |                         |                                   | YESCHO                         |
|  |   | 1                               | 100                     |   |                                   |                         |                                   |                                |
| nfluent Air Temp   | erature   |                                 | 100                     | Check Float S   | witch in KO d                     |                         |                                   | YES/OK                         |
|  |   |                                 | 35                      |   |                                   | tly being extra         |                                   | NGG                            |
| Total Vacuum Rea   | ading (in. H2O  | )                               |                         | Well  | Extracting                        | Vacuum (in              | Delivery                          | VOCs at                        |
|  | 0   |                                 | $\sim 210$              | DW 2  | (air/water)                       | H20)                    | Pressure                          | well (PID)                     |
| Total Flowrate (sc   | tm)   |                                 |                         | RW-2<br>RW-3  | Leal IT                           |                         | 25                                | <b>├</b>                       |
| SVE VOCs (PID)   | (nnm)   |                                 | POR                     | RW-7  |                                   |                         | $ \rightarrow $                   |                                |
| SVE VOCS (FID)   | (ppiii)   |                                 |                         |   | leap / y                          |                         | 25                                |                                |
| Air stripper efflue  | nt VOCs (PID)   | (ppm)                           | CH26 FOR ARE            | LAI-5   | YIV                               | 18                      | 24                                |                                |
| in suppor entres   |   | (PP)                            | <u> </u>                | LAI-6   | NIN                               | -                       | 21                                |                                |
| Influent total VOC   | Cs (PID)(ppm)   |                                 | 1.0                     | LAI-7   | Y Y                               | 23                      | 50                                |                                |
|  |   |                                 | 1.7                     | LAI-8   | VIN                               | 30                      |                                   |                                |
| Effluent total VOC   | Cs (PID)(ppm)   |                                 | <u> </u>                | LAI-9   | lenk 1 4                          |                         | 30                                | <u> </u>                       |
|  |   |                                 | 9.3/2.9                 | HW-1E<br>HW-1W  | NY                                | NGED                    | Naw                               |                                |
| BTWC1, BTWC2   |   |                                 |                         | HW-IW   | NX                                | REG +                   | 600095                            | -\\                            |
|  |   |                                 | Water Tre               | atment Syster   | n .                               | _                       |                                   |                                |
| One  | erating on Arriv  | val (Yes/No) <sup>.</sup>       | VES NO                  |   | Operati                           | ing on Departu          | re (Yes/No):                      | VISS                           |
|  |   |                                 | 7                       |   |                                   |                         |                                   |                                |
| If No, what alarm  |   |                                 |                         |   | Monthl                            | y Maintenanc            | e Items                           |                                |
|  | System  | Readings                        |                         |   |                                   |                         |                                   |                                |
| Hour Meter Readi   |   |                                 | 14938.6                 | -   |                                   | operation in ai         | r                                 | YES                            |
| Alarm Hours (in p  |   | splay)                          | NONE                    | compressor (  | yes/no)                           |                         |                                   | ļ/                             |
| Air stripper vacuu   | ım (in H2O)   |                                 | ~15                     | Manually dra  | in water in air                   | compressor ta           | nk (yes/no)                       | YES                            |
| Pressure on Carbo  |   |                                 | 18/18                   |   |                                   | -                       |                                   |                                |
| Storage tank oil le  |   | duct)                           | <u>ft/ft</u>            | 4   |                                   |                         |                                   | Need                           |
| Pressure on filter l   | and the second se |                                 | 22/22                   |   | ipper (yes(no)                    |                         |                                   |                                |
| Air stripper influe  |   |                                 | 397220                  |   | air compresso                     |                         | dina                              | ADDEN                          |
|  |   |                                 | 17.1                    |   | g tank for slud<br>tention pond ( | lge buildup (ye         | <b>3</b> (110)                    | NA                             |
|  |   | gal)                            | 200478                  | the second se   |                                   |                         |                                   |                                |
| Air stripper efflue  |   |                                 |                         | Air compress  | sor selonoid va                   | lve operating (         | y/II)                             | 195                            |
| Air stripper efflue<br>Air stripper efflue   | ent flow rate (g  | al/min)                         |                         |   |                                   | 1                       |                                   |                                |
| Air stripper efflue<br>Air stripper efflue   |   |                                 | Total Inf               | Mid 1   | Mid 2                             | TotalEff                | 1                                 | Discharge                      |
| Air Samples<br>Analysis  | ent flow rate (g  | al/min)                         | Total Inf<br>TPHg, BTEX |   | Mid 2<br>TPHg, BTEX               | Total Eff<br>TPHg, BTEX | Регг                              | mit No.                        |
| Air stripper efflue<br>Air stripper efflue<br>Air Samples                            | ent flow rate (g<br>SVE INF<br>TPHg, BTEX   | al/min)<br>AS EFF               | TPHg, BTEX              | Mid 1<br>TPHg. BTEX   | TPHg, BTEX                        |                         | Perr<br>9                         | mit No.<br>9648                |
| Air stripper efflue<br>Air stripper efflue<br>Air Samples<br>Analysis                | ent flow rate (ga<br>SVE INF  | al/min)<br>AS EFF               |                         | Mid 1<br>TPHg. BTEX   |                                   |                         | Perr<br>9<br>King Co              | mit No.<br>9648<br>punty Metro |
| Air stripper efflue<br>Air stripper efflue<br>Air Samples<br>Analysis<br>Sample Time | ent flow rate (g<br>SVE INF<br>TPHg, BTEX   | al/min)<br>AS EFF<br>TPHg, BTEX | TPHg, BTEX              | Mid 1<br>TPHg, BTEX<br>Tot  | TPHg, BTEX                        |                         | Perr<br>9<br>King Co<br>Discharge | mit No.<br>9648                |

Renton OM Form (5-20-08).xls

SITE OBSERVATION REPORT 3485 Project: File No. Contractor: Project No. COP Owner: Project No. RENTON WA Stantec 4.7-09 Location: Date: Page 1 of SUNNY  $\sim 55^{\circ}F$ L. Raulins on-site purpose to check 8:30 vapor readings on carbon drums and system. Checked in at office, personnel reported better communication is needed for any work planned for site Called M. Tolley and informed on-site 8:45 Put on PPE, review health and safety 8:55 Calibrate PID and begin system check 9:20 After completeing vapor check reset compresson which wois down on water treatment side. No alarms where off but no air being sent to wells. Got to pressure Turned system off to check filters and oil. SVE : Sutorbilt blower nodel. GACMOPA serialno. 5243503 cat no. MMP may rpm 3600 lubricant - Aeon PD GARDMAR DANNAR synthetic lubricant part no. 28623 Compressor: lubricant: synthetic for 30HP all season select Ingersoll. Rand Oil checked in compressor 10:10 SVE added filters, changed in Knock-out lig pre-filters : . . ok 1020 checking tank fair after system back. en 6 Rawlins J.R

E SEA

1000

T

1165

1004

SITE OBSERVATION REPORT 3485 File No. Project: Project No. Contractor: COP Project No. Owner: Renton (A) A Date: Location: Stantec Page Checked off. wells outside of termina fence HW-IE and HW-IW Both need new condensors and pressor gauges. Called M.T. and R. Fetterly. 10:00 Remove PPE L-Rawlins -off site 1100 1 Rawlins

SECOR PN: 01CP.03485.45

Date: 4 14 09

Time: 11 . 40

Inspected By: L PAWLINS

|   |   |  | General  | Site Status   |   |  |  |   |
|---|---|--|--|---|---|--|--|---|
| Motor Control Cer<br>status and that pan  | nter checked for<br>els are closed  | r switch   | YES  | Hoses Inspecte<br>Comments:   | ed (ves/no):  | OK   |  |   |
| Flow meters check   |   | n and leaks  | YES off leak   | Tanks inspecte  | ed for leaks, bi  | io-growth  |  | 00  |
|   |   |  | out or der swit  | System  |   |  |  |   |
|   | nating on Arriv   | al (Vec/No)  | YES  |   | Operati   | ng on Departu  | re (Yes/No):   | V84   |
|   | rating on Arriv   |  | 10   |   | operatin  |  |  | 4-4   |
| If-No, what alarm   | s shut system d   | own:   |  |   |   |  |  |   |
|   | System F  |  |  | 4   | Quarteri  | y Maintenanc   | e items  |   |
| Hour Meter Readi  | ng (hrs) 293  | 36.3   |  | Add/Change c  | il in SVE blo   | wer (yes no)   |  | OIC   |
|   | -8 ()   |  |  | Maintain filter   |   |  |  | OK  |
| To florent & in Tomm  | oroturo   |  | 100  | Check Float S   | witch in KO d   | irum   |  | NOT THIS  |
| Influent Air Temp   | erature   |  |  | -   |   | tly being extr   | acted from   |   |
| Total Vacuum Rea  | ding (in. H2O)  | )  | 30   | Well  | Extracting  | Vacuum (in   | Delivery   | VOCs at   |
|   | с. ).   |  | 210  | DIVO  | (air/water)   | H20)   | Pressure   | well (PAD)  |
| Total Flowrate (sc  | im)   |  | ~ IV   | RW-2<br>RW-3  |   | <u></u>  |  |   |
|   | (nnm)   |  | 3.3  | RW-7  |   |  |  |   |
| SVE VOCs (PID)  | (րրու)  |  |  | LAI-4   |   |  |  | 1   |
| Air stripper efflue   | nt VOCs (PID)   | (ppm)  |  | LAI-5   |   |  |  |   |
|   |   | × 4  | 7 D  | LAI-6   |   |  |  |   |
| Influent total VOC  | Cs (PID)(ppm)   |  | 1.0  | LAI-7   |   | and the second s |  |   |
| ·^  |   |  | 70   | LAI-8   |   | 1  | ļ  |   |
| Effluent total VOC  | Cs (PID)(ppm)   |  | 3.0  | LAI-9   |   |  |  | I   |
| BTWC1, BTWC2  |   | ς  | 8.8 3.2  | HW-1E<br>HW-1W  |   |  | · · · · ·  |   |
|   |   |  | Water Tra  | eatment System  | 1   |  |  |   |
|   |   |  |  |   |   |  |  |   |
| Ope   | rating on Arriv   | val (Yes/No):  | NO   |   |   | ing on Departi   | ure (Yes/No)   | YES   |
|   |   |  |  |   | Operat  |  | ire (Yes/No):  |   |
| Ope<br>If No, what alarm  |   | iown: NO   | NO<br>alarm — c  |   | Operat<br>Sor de  |  | resta  |   |
| If No, what alarm   | s shut system o<br>System I   | iown: NO   | alarm -c   | ompres  | Operat<br>Sor de<br>Monthi  | y Maintenand   | <u>resta</u><br>zeItems  | cted  |
| If No, what alarm<br>Hour Meter Readi   | s shut system o<br>System I<br>ng (hrs)   | iown: NO<br>Readings   |  | Ompress<br>Check pressu   | Operat<br>Soc de<br>Monthi<br>re relief valve   | own -  | <u>resta</u><br>zeItems  |   |
| If No, what alarm<br>Hour Meter Readi<br>Alarm Hours (in p  | s shut system o<br>System I<br>ng (hrs)<br>panel digital dis  | iown: NO<br>Readings   | alarm -c   | Cmpre≤s<br>Check pressu<br>compressor (?  | Operat<br>Soc de<br>Monthi<br>re relief valve<br>yes/no)  | y Maintenand   | resta.<br>Se Items<br>ir   | oted<br>YES   |
| If No, what alarm<br>Hour Meter Readi<br>Alarm Hours (in p<br>Air stripper vacuu  | s shut system (<br>System I<br>ng (hrs)<br>panel digital dis<br>m (in H2O)  | iown: NO<br>Readings   | alarm -c<br>15108.8  | Cmpre≤s<br>Check pressu<br>compressor (?  | Operat<br>Soc de<br>Monthi<br>re relief valve<br>yes/no)  | y Maintenand   | resta.<br>Se Items<br>ir   | cted  |
| If No, what alarm<br>Hour Meter Readi<br>Alarm Hours (in p<br>Air stripper vacuu<br>Pressure on Carbo   | s shut system o<br>System I<br>ng (hrs)<br>panel digital dis<br>m (in H2O)<br>on vessel (psi)   | lown: No<br>Readings<br>splay)   | alarm -c<br>15108.8  | Cmpre≤s<br>Check pressu<br>compressor (?  | Operat<br>Soc de<br>Monthi<br>re relief valve<br>yes/no)  | y Maintenand   | resta.<br>Se Items<br>ir   | oted<br>YES   |
| If No, what alarm<br>Hour Meter Readi<br>Alarm Hours (in p<br>Air stripper vacuu  | s shut system o<br>System I<br>ng (hrs)<br>banel digital dis<br>m (in H2O)<br>on vessel (psi)<br>evel (water/prod   | lown: No<br>Readings<br>splay)   | alarm - c<br>15108.8<br>- 15   | Cmpress<br>Check pressu<br>compressor (y<br>Manually dra  | Operat<br>Soc de<br>Monthi<br>re relief valve<br>yes/no)  | y Maintenand<br>operation in a   | resta.<br>Se Items<br>ir   | rted<br>YES<br>YES  |
| If No, what alarm<br>Hour Meter Readi<br>Alarm Hours (in p<br>Air stripper vacuu<br>Pressure on Carbo<br>Storage tank oil le  | s shut system o<br>System I<br>ng (hrs)<br>panel digital dis<br>m (in H2O)<br>on vessel (psi)<br>evel (water/proc<br>housing (psi)  | down: No<br>Readings<br>splay)<br>duct)  | alarm - c<br>15108.8<br>- 15   | Check pressu<br>compressor (<br>Manually dra<br>Clean Air Str<br>Change oil in  | Operat<br>So C de<br>Monthi<br>re relief valve<br>yes/no)<br>in water in air<br>ipper (yes no<br>air compresso  | y Maintenand<br>operation in a<br>compressor tz  | <u>resta</u><br>e Items<br>ir<br>unk (yes/no)  | YES<br>YES<br>VES<br>NEED<br>FRES W.  |
| If No, what alarm<br>Hour Meter Readi<br>Alarm Hours (in p<br>Air stripper vacuu<br>Pressure on Carbo<br>Storage tank oil le<br>Pressure on filter<br>Air stripper influe<br>Air stripper influe  | s shut system o<br>System I<br>ng (hrs)<br>nanel digital dis<br>m (in H2O)<br>m vessel (psi)<br>evel (water/proc<br>housing (psi)<br>nt flow meter (<br>nt flow rate (ga  | down: $\mathcal{N} \odot$<br>Readings<br>splay)<br>duct)<br>gal)<br>al/min)  | $\frac{15108.8}{-15}$  | Check pressu<br>compressor (y<br>Manually dra<br>Clean Air Str<br>Change oil in<br>Check settlin  | Operat<br>Monthl<br>re relief valve<br>yes/no)<br>in water in air<br>ipper (ves fo)<br>air compresso<br>g tank for sluce  | y Maintenand<br>operation in a<br>compressor tz  | <u>resta</u><br>e Items<br>ir<br>unk (yes/no)  | YES<br>YES<br>NEED<br>PRES W.<br>OK<br>NET WIGD   |
| If No, what alarm<br>Hour Meter Readi<br>Alarm Hours (in p<br>Air stripper vacuu<br>Pressure on Carbo<br>Storage tank oil le<br>Pressure on filter<br>Air stripper influe<br>Air stripper influe<br>Air stripper efflue   | s shut system (<br>System I<br>ng (hrs)<br>panel digital dis<br>m (in H2O)<br>en vessel (psi)<br>evel (water/proc<br>nousing (psi)<br>nt flow meter (<br>mt flow rate (ga<br>nt flow meter (  | down: No<br>Readings<br>splay)<br>duct)<br>gal)<br>al/min)<br>gal) le ok inc   | $\frac{15108.8}{-15}$  | Check pressu<br>compressor (y<br>Manually dra<br>Clean Air Str<br>Change oil in<br>Check settlin<br>Product in re   | Operat<br>Monthi<br>re relief valve<br>yes/no)<br>in water in air<br>ipper (ves no)<br>air compressed<br>g tank for sluc<br>tention pond (  | y Maintenand<br>operation in a<br>compressor ta<br>or (yet no)<br>dge buildup (ye<br>yes/no)   | resta<br>e Items<br>ir<br>unk (yes/no)<br>eeno   | Hed<br>YES<br>YES<br>NEED<br>FRES W.<br>OK<br>NET NED<br>WIA  |
| If No, what alarm<br>Hour Meter Readi<br>Alarm Hours (in p<br>Air stripper vacuu<br>Pressure on Carbo<br>Storage tank oil le<br>Pressure on filter<br>Air stripper influe<br>Air stripper influe  | s shut system (<br>System I<br>ng (hrs)<br>panel digital dis<br>m (in H2O)<br>en vessel (psi)<br>evel (water/proc<br>nousing (psi)<br>nt flow meter (<br>mt flow rate (ga<br>nt flow meter (  | down: No<br>Readings<br>splay)<br>duct)<br>gal)<br>al/min)<br>gal) le ok inc   | $\frac{15108.8}{-15}$  | Check pressu<br>compressor (y<br>Manually dra<br>Clean Air Str<br>Change oil in<br>Check settlin<br>Product in re   | Operat<br>Monthi<br>re relief valve<br>yes/no)<br>in water in air<br>ipper (ves no)<br>air compressed<br>g tank for sluc<br>tention pond (  | y Maintenand<br>operation in a<br>compressor tz<br>or (yet(no)<br>dge buildup (yet<br>yes/no)<br>alve operating  | resta<br>e Items<br>ir<br>unk (yes/no)<br>eeno   | YES<br>YES<br>NEED<br>PRES W.<br>OK<br>NET WIGD   |
| If No, what alarm<br>Hour Meter Readi<br>Alarm Hours (in p<br>Air stripper vacuu<br>Pressure on Carbo<br>Storage tank oil le<br>Pressure on filter<br>Air stripper influe<br>Air stripper influe<br>Air stripper efflue   | s shut system (<br>System I<br>ng (hrs)<br>panel digital dis<br>m (in H2O)<br>en vessel (psi)<br>evel (water/proc<br>nousing (psi)<br>nt flow meter (<br>mt flow rate (ga<br>nt flow meter (  | down: No<br>Readings<br>splay)<br>duct)<br>gal)<br>al/min)<br>gal) le ok inc   | $\frac{15108.8}{-15}$  | Check pressu<br>compressor (y<br>Manually dra<br>Clean Air Str<br>Change oil in<br>Check settlin<br>Product in re   | Operat<br>Monthi<br>re relief valve<br>yes/no)<br>in water in air<br>ipper (ves no)<br>air compressed<br>g tank for sluc<br>tention pond (  | y Maintenand<br>operation in a<br>compressor ta<br>or (yet no)<br>dge buildup (ye<br>yes/no)   | resta<br>resta<br>ir<br>ir<br>ir<br>ir<br>ir<br>$r(yes/no)^{(y/n)}$                              | Hed<br>YES<br>YES<br>NEED<br>FRES W.<br>OK<br>NET NED<br>WIA  |
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| If No, what alarm<br>Hour Meter Readi<br>Alarm Hours (in p<br>Air stripper vacuu<br>Pressure on Carbo<br>Storage tank oil le<br>Pressure on filter<br>Air stripper influe<br>Air stripper influe<br>Air stripper efflue<br>Air stripper efflue  | s shut system of<br>System I<br>ng (hrs)<br>anel digital dis<br>m (in H2O)<br>m vessel (psi)<br>nvel (water/pro-<br>housing (psi)<br>nt flow meter (<br>nt flow rate (ga<br>nt flow rate (ga<br>SVE INF   | al/min)<br>AS EFF  | alarm $-c$<br>15108.8<br>-15<br>ft/ ft<br>397.489<br>206501<br>Total Inf<br>TPHg. BTEX<br>202                | Check pressu<br>compressor (y<br>Manually dra<br>Clean Air Str<br>Change oil in<br>Check settlin<br>Product in re<br>Air compress<br>Mid 1<br>TPHg. BTEX  | Operat<br>Monthl<br>re relief valve<br>ves/no)<br>in water in air<br>ipper (ves fo)<br>air compresse<br>g tank for sluc<br>tention pond (<br>tor selonoid va<br>Mid 2                                       | y Maintenand<br>operation in a<br>compressor ta<br>or (yes no)<br>dge buildup (ye<br>yes/no)<br>alve operating<br>Total Eff  | ir<br>ir<br>ir<br>ir<br>ir<br>ir<br>ir<br>ir<br>ir<br>ir<br>ir<br>ir<br>ir<br>i                  | $rac{1}{2}$   |
| If No, what alarm<br>Hour Meter Readi<br>Alarm Hours (in p<br>Air stripper vacuu<br>Pressure on Carbo<br>Storage tank oil le<br>Pressure on filter<br>Air stripper influe<br>Air stripper influe<br>Air stripper efflue<br>Air stripper efflue<br>Air stripper efflue<br>Air stripper efflue  | s shut system of<br>System I<br>ng (hrs)<br>anel digital dis<br>m (in H2O)<br>m vessel (psi)<br>nvel (water/pro-<br>housing (psi)<br>nt flow meter (<br>nt flow rate (ga<br>nt flow rate (ga<br>SVE INF   | al/min)<br>AS EFF  | alarm $-c$<br>15108.8<br>-ft $-ft3977489206501Total InfTPHg. BTEXORMIG IN$                                   | Check pressu<br>compressor (y<br>Manually dra<br>Clean Air Str<br>Change oil in<br>Check settlin<br>Product in re<br>Air compress<br>Mid 1<br>TPHg. BTEX  | Operat<br>Monthl<br>re relief valve<br>ves/no)<br>in water in air<br>ipper (ves fo)<br>air compresse<br>g tank for sluc<br>tention pond (<br>tor selonoid va<br>Mid 2                                       | y Maintenand<br>operation in a<br>compressor ta<br>or (yes no)<br>dge buildup (ye<br>yes/no)<br>alve operating<br>Total Eff  | resta<br>e Items<br>ir<br>ink (yes/no)<br>(y/n)<br>PSCAA<br>Per<br>King C                        | $\frac{1}{2} \frac{1}{2} \frac{1}$  |
| If No, what alarm<br>Hour Meter Readi<br>Alarm Hours (in p<br>Air stripper vacuu<br>Pressure on Carbo<br>Storage tank oil le<br>Pressure on filter<br>Air stripper influe<br>Air stripper influe<br>Air stripper efflue<br>Air stripper efflue<br>Air stripper efflue<br>Air Samples<br>Analysis<br>Sample Time   | s shut system of<br>System I<br>ng (hrs)<br>banel digital dis<br>m (in H2O)<br>on vessel (psi)<br>ovel (water/proc<br>housing (psi)<br>nt flow meter (<br>nt flow rate (ga<br>nt flow meter (<br>nt flow rate (ga<br>SVE INF<br>TPHg. BTEX  | al/min)<br>AS EFF<br>TPHg. BTEX  | alarm $-c$<br>15108.8<br>-15<br>ft/ ft<br>397.489<br>206501<br>Total Inf<br>TPHg. BTEX<br>202                | Check pressu<br>compressor (y<br>Manually dra<br>Clean Air Str<br>Change oil in<br>Check settlin<br>Product in re<br>Air compress<br>Mid 1<br>TPHg. BTEX  | Operat<br>Monthi<br>re relief valve<br>yes/no)<br>in water in air<br>ipper (yes/no)<br>air compressed<br>g tank for sluc<br>tention pond (<br>tor selonoid va<br>Mid 2<br>TPHE BTEX                         | y Maintenand<br>operation in a<br>compressor ta<br>or (yes no)<br>dge buildup (ye<br>yes/no)<br>alve operating<br>Total Eff  | e e sta<br>e Items<br>ir<br>ink (yes/no)<br>(y/n)<br>(y/n)<br>PSCAA<br>Per<br>King C<br>Discharg | $\frac{1}{2} \frac{1}{2} \frac{1}$  |
| If No, what alarm<br>Hour Meter Readi<br>Alarm Hours (in p<br>Air stripper vacuu<br>Pressure on Carbo<br>Storage tank oil le<br>Pressure on filter<br>Air stripper influe<br>Air stripper efflue<br>Air stripper efflue<br>Air stripper efflue<br>Air stripper efflue<br><b>Air Samples</b><br><b>Analysis</b><br><b>Sample Time</b><br>Water Samples   | s shut system of<br>System I<br>ng (hrs)<br>banel digital dis<br>m (in H2O)<br>on vessel (psi)<br>on vessel (psi)<br>nt flow meter (<br>nt flow rate (ga<br>nt flow rate (ga<br>SVE INF<br>TPHg. BTEX<br>Total Inf  | down: No<br>Readings<br>(splay)<br>duct)<br>gal)<br>al/min)<br>gal) le ok inc<br>al/min)<br>AS EFF<br>TPHg. BTEX<br>Rofst AS   | alarm $-c$<br>15108.8<br>-ft $-ft3977489206501Total InfTPHg. BTEXORMIG IN$                                   | Check pressu<br>compressor (y<br>Manually dra<br>Clean Air Str<br>Change oil in<br>Check settlin<br>Product in re<br>Air compress<br>Mid 1<br>TPHg. BTEX  | Operat<br>Monthil<br>re relief valve<br>yes/no)<br>in water in air<br>ipper (ves 0)<br>air compresse<br>g tank for sluce<br>tention pond (<br>ior selonoid va<br>Mid 2<br>TPHTE BTEX<br>al Eff              | y Maintenand<br>operation in a<br>compressor ta<br>or (yes no)<br>dge buildup (ye<br>yes/no)<br>alve operating<br>Total Eff  | e e sta<br>e Items<br>ir<br>ink (yes/no)<br>(y/n)<br>(y/n)<br>PSCAA<br>Per<br>King C<br>Discharg | $\frac{1}{2} \frac{1}{2} \frac{1}$  |
| If No, what alarm<br>Hour Meter Readi<br>Alarm Hours (in p<br>Air stripper vacuu<br>Pressure on Carbo<br>Storage tank oil le<br>Pressure on filter<br>Air stripper influe<br>Air stripper efflue<br>Air stripper efflue<br>Air stripper efflue<br>Air stripper efflue<br>Sample Time<br>Water Samples<br>Analysis   | s shut system of<br>System I<br>ng (hrs)<br>vanel digital dis<br>m (in H2O)<br>m vessel (psi)<br>vvel (water/proc<br>housing (psi)<br>nt flow meter (<br>nt flow rate (ga<br>nt flow rate (ga<br>SVE INF<br>TPHg. BTEX<br>Total Inf<br>TPHg&d. BTEX   | down: Do<br>Readings<br>splay)<br>duct)<br>gal)<br>al/min)<br>gal) le aking<br>al/min)<br>AS EFF<br>TPHg. BTEX<br>Refst ASV<br>TPHg. BTEX  | alarm $-c$<br>15108.8<br>-fl ft<br>3914789<br>206501<br>Total Inf<br>TPHg. BTEX<br>OR<br>MIC H<br>TPHg. BTEX | Check pressu<br>compressor (y<br>Manually dra<br>Clean Air Str<br>Change oil in<br>Check settlin<br>Product in ret<br>Air compress<br>Mid 1<br>TPHg. BTEX | Operat<br>Monthil<br>re relief valve<br>yes/no)<br>in water in air<br>ipper (ves 0)<br>air compresse<br>g tank for sluce<br>tention pond (<br>ior selonoid va<br>Mid 2<br>TPHTE BTEX<br>al Eff              | y Maintenand<br>operation in a<br>compressor ta<br>or (yes no)<br>dge buildup (ye<br>yes/no)<br>alve operating<br>Total Eff  | e e sta<br>e Items<br>ir<br>ink (yes/no)<br>(y/n)<br>(y/n)<br>PSCAA<br>Per<br>King C<br>Discharg | $\frac{1}{2} \frac{1}{2} \frac{1}$  |
| If No, what alarm<br>Hour Meter Readi<br>Alarm Hours (in p<br>Air stripper vacuu<br>Pressure on Carbo<br>Storage tank oil le<br>Pressure on filter<br>Air stripper influe<br>Air stripper influe<br>Air stripper efflue<br>Air stripper efflue<br>Air stripper efflue<br><b>Air Samples</b><br><b>Analysis</b><br><b>Sample Time</b><br><b>Water Samples</b><br><b>Analysis</b><br><b>Sample Time</b> | s shut system of<br>System I<br>ng (hrs)<br>banel digital dis<br>m (in H2O)<br>on vessel (psi)<br>on vessel (psi)<br>on vessel (psi)<br>nut flow meter (<br>nut flow meter (<br>nut flow meter (<br>nut flow meter (<br>svE INF<br>TPHg. BTEX<br>Total Inf<br>TPHg&d. BTEX<br>ts (activities co | down: Do<br>Readings<br>(aplay)<br>(duct)<br>(gal)<br>(al/min)<br>(gal) lo object<br>(al/min)<br>(AS EFF<br>TPHg. BTEX<br>(Rost AS)<br>TPHg. BTEX<br>(Control of the second | alarm $-c$<br>15108.8<br>-fl ft<br>3914789<br>206501<br>Total Inf<br>TPHg. BTEX<br>OR<br>MIC H<br>TPHg. BTEX | Check pressu<br>compressor (y<br>Manually dra<br>Clean Air Str<br>Change oil in<br>Check settlin<br>Product in ret<br>Air compress<br>Mid 1<br>TPHg. BTEX | Operat<br>Monthi<br>re relief valve<br>yes/no)<br>in water in air<br>ipper (yes no)<br>air compressed<br>g tank for sluc<br>tention pond (<br>tor selonoid va<br>Mid 2<br>TPHE BTEX<br>al Eff<br>. BTEX. PH | y Maintenand<br>operation in a<br>compressor ta<br>or (yes no)<br>dge buildup (ye<br>yes/no)<br>alve operating<br>Total Eff  | e e sta<br>e Items<br>ir<br>ink (yes/no)<br>(y/n)<br>(y/n)<br>PSCAA<br>Per<br>King C<br>Discharg | $\frac{1}{2} \frac{1}{2} \frac{1}$  |

Project: File No. 3485 Contractor: Project No. Owner: COP Project No. Stantec Location: Renton, WA Date: 4-14-09 Page Cloudy /rainy ~ L. Rawling on-site. Sign in discuss site with terminal personnel. Park vehicle by system text T. Parise on-site. Put on PPE review HASP 1991 6 11:00 and safety. System overview - walk around. 11:40 PID and get system vapor check on Calibrate carbon drums. Compressor is down so with not fonctioning No system alarms. 12:10 Called B.M. gave readings and site overview. 12:45 Pack up equipment, remove P.P.E, sign out. 13:00 L. Rawlins - off site D 13 L. Row lins X. Ranhi 21 1 £ "Rite in the Rain"

SITE OBSERVATION REPORT 3485 Project: File No. Project No. Contractor: Owner: COP Project No. Location: RENTON WI 4-16-09 Date: Stantec Page pt of ----Partially cloudy ~ 50F 2. Rawlins on-site Called M. Tolley 8:05 porpose system repairs to compressor regolators and cambocks Sigr 8:15 Put on P.P.E review health and satet 8:25 Checked system: compressor is down. Shut down entire system to begin work. Finished replace/repair to Kam locks in tank farm LAI-4, LAI-9 and RW-2 (2 KAMS) 11:15 - completed 1.):30 Heading to wells off site (outside fence HW-IE and HW-IW to replace regulators Had incorrect size, ran to Grainger and got correct part. 12:15 New regulators are on, going back inside fence to work on compressor and replace Darts 15:10 After locking out system, replaced pressure switch, lubricated and checked other components, Restarted system 16:00 Checked all repairs - no leaks at kam-locks. Cleaned up work area and kept checking on compressor After signing out at office noticed compresson not cycling When tried to restarte. slight smoke from right side motor. (smaller diam side, facing back of unit), Will need further review. Leaving site L- Rawlins \*

SITE OBSERVATION REPORT 3485 File No. Project: Project No. Contractor COP\_ Project No. Date pr. 1 21, 2009 RENTON, WA Owner: Page of of ocation: Stantec SUNNY ~67°F L. Rawlins on-site Sign in, text M.T. Put on PPE. review Hasp/safety Purpose full 0 & M. Begin set up and work stanted compressor 10:00 1:15 Air Sampling completed, begin water sampling 2:30 Finished water samples ' labeled and packed Will take system and tank farm readings During sampling compresson guit cycling and would not restart 1245 Got reading in tank farm for Vac only Rechecked compressor will not nestart 1320 Signed out removed PPS after loading equipment and samples. Text M.T. 10:25 11:15 12:30 Leaving site. L. Raulins A. P.h.

Remediation System Operation Log 2423 Lind Ave, Renton WA

SECOR PN: 01CP.03485.45

Date: 4/21/09

Time: 10:30

Inspected By: L. Rawlins

| Motor Control Center checked for switch       Y 1 S         Filow meters decked for switch       Y 1 S         Filow meters decked for operation and leaks       Y 1 S         SWE System       Operating on Arrival (Ye)No):       Operating on Departure (Ye)No):         Operating on Arrival (Ye)No):       Operating on Departure (Ye)No):       Operating on Departure (Ye)No):         System Readings       Operating on Departure (Ye)No):       Operating on Departure (Ye)No):       Operating on Departure (Ye)No):         Influent Air Temperature       125       Check Flact Switch in KO drum       Vg 2         Total Vacuum Reading (in, H2O)       34       Maintain filter in KO Drum (Ye)       Operating on Departure (Ye)NO:         Total Vacuum Reading (in, H2O)       34       Well Extracting Vacoum (in Delivery VOCs at the Pressure (Ye) (PD)       N/A         SVE VOCs (PID(ppm)       18:3       LAI-4       Y       2.6       M/A         RW-2       Y/Y       2.7       M/A       N/A       N/A         SVE VOCs (PID(ppm)       18:3       LAI-5       Y/A       N/A         Influent total VOCs (PID(ppm)       5:3       LAI-6       N/Y       N/A         Britten total VOCs (PID(ppm)       5:3       LAI-6       N/Y       N/A         Bremore filtent total VOCs (PID(ppm)   |  |  |               | General        | Site Status  |  |                  |  |           |         |
|--|--|--|---------------|----------------|--|--|------------------|--|-----------|---------|
| SVE System           Operating on Arrival (*@No):         Operating on Departure (*@No):           System Readings         Quarterly Maintenance Terms           System Readings         Quarterly Maintenance Terms           Hour Meter Reading (Ins.)         Operating on Departure (*@No):         OV           Maintain filter in KO Drum (v@mo)         O1(           Influent Air Temperature         I 25         Check Float Switch in KO drum         Y 25           Total Vacuum Reading (in, H2O)         34         Wells currently being extracted from           Wells currently being extracted from           Well (air/water)         N/A           System Readings         N/A           System Readings         N/A           Note (PD/ppm)         18.3         LAI-4         Y 4         2           Note (PD/ppm)         I A           I A         N/A           System Readings         N/A           Weto (PD/ppm)         A <th cols<="" td=""><td></td><td></td><td>or switch</td><td>YES</td><td></td><td>ed (yes/no):</td><td><u>\{</u></td><td></td><td></td></th>   | <td></td> <td></td> <td>or switch</td> <td>YES</td> <td></td> <td>ed (yes/no):</td> <td><u>\{</u></td> <td></td> <td></td>   |  |               | or switch      | YES  |  | ed (yes/no):     | <u>\{</u>                                |           |         |
| SVE System         Operating or. Artival (*@No):       Operating on Departure (*@No):         System Readings:       Quarterly Maintenance Items         System Readings:       Quarterly Maintenance Items         Hour Meter Reading (Ins)       Site Colspan="2">Operating on Departure (*@No):       Operating on Departure (*@No):         System Readings:       Quarterly Maintenance Items         Maintain filter in KO Drum (vefmo)       OI (         Influent Air Temperature       I 25       Check Float Switch in KO drum       Y 25         Total Vacuum (ne Delivery VOCs at<br>(air/water)       N/A         NPAC       Wells currently being extracted from         Well Extracting Vacuum (in Delivery VOCs at<br>(air/water)         NA         NA         System Keadings         Well Colspan="2">NA         NA         Ma  | Flow meters check  | ed for operatic  | on and leaks  | YES            | Tanks inspect  | ed for leaks, bi   | io-growth        |  | YES/010   |         |
| Operating on Arrival (%) Not:         Operating on Departure (%)           FNo, what alarms shut system down:         System Readings         Quarterly Mintenance Terms           Hour Meter Reading (hrs)         310 ° °         11 % 7.2. °         Add(Change oil in SVE blower (vegfin)         O(x)           Infuent Air Temperature         12 %         Check Float Switch in KO Drum (vegfin)         O(x)           Foral Vacuum Reading (in, H2O)         3 °         Well Extracting Vacuum (vegfin)         O(x)           Total Flowrate (sefin)         N 2 10         RW-2         7 / y         2 °         N/A           SVE VOCs (PID)(ppm)         18 .9         RW-3         LAI-4         y / y         2 6         N/A           Influent total VOCs (PID)(ppm)         18 .3         LAI-5         y / y         2 6         N/A           Effluent total VOCs (PID)(ppm)         63 .1         LAI-5         y / y         2 6         N/A           BTWC1. BTWC2         9.4 // 4.0         HW-1         X / y         2 6         N/A           Matter freading (hrs)         A         LAI-5         y / y         2 6         N/A           BTWC1. BTWC2         9.4 // 4.0         HW-1         X / y         2 6         N/A           BTWC1. BTWC2         9.4 // 4.0  |  |  |               |                |  |  |                  | na an a |           |         |
| No. what alarms shut system down:         Quarterly Mintenance Items         Add(Change oil in SVE blower (vegfice) $O_X$ Add(Change oil in SVE blower (vegfice) $O_X$ Maintenance Items         Influent Air Temperature       I $S \subseteq O_X$ Maintenance Items         Total Vacuum Reading (in, H2O)       O (C)         Total Flowrate (sefin)       N $2 = 0$ N $2 = 0$ Vel (PD(ppm)         I $S = 0$ N $A = 0$ SVE VOCs (PID(ppm)       I $S = 0$ N $A = 0$ SVE VOCs (PID(ppm)       I $S = 0$ N $A = 0$ SVE VOCs (PID(ppm)       I $S = 0$ N $A = 0$  |  |  | 1 Contor      |                |  | Operati  | ng on Denartur   | - Kennor                                 |           |         |
| Quartedy Maintenance ItemsAour Meter Reading (hrs) $310^{\circ}$ , $310$ |  |  | ~             |                |  | Орылан   | ng on Departur   |  |           |         |
| Add/Change off in SVE blower (ves/h0) $O_{\chi}$ Add/Change off in SVE blower (ves/h0) $V_{\chi}$ Add/Change off in arc ond pressor (ves/h0) $V_{\chi}$ Add/Change off in arc ond pressor (ves/h0) $V_{\chi}$ Add/Change off in arc ond pressor (ves/h0) $V_{\chi}$ Add/Change off in Add pressor (ves/h0) $V_{\chi}$ Add/Change off in Add pressor (ves/h0) $V_{\chi}$ Add/Change o  | f No, what alarms  | Conception of the second second second   |               |                |  | Quantari   | . Maintanana     | Itoms                                    |           |         |
| Hour Meter Reading (Instructure)       Image of the Structure of th  |  |  |               |                |  | Quarteri   | y Mantenano      |  |           |         |
| Influent Air Temperature     125     Check Float Switch in KO drum     YES       Total Vacuum Reading (in. H2O)     3 4     Well seurrently being extracted from     Vacuum (in Delivery VOCs at a a a a construction of the second sec  | Hour Meter Readin  | ng (hrs)   | 1718          | 11872.9        | and the second sec | the second s | ~ / /            |  |           |         |
| Wells currently being extracted from         Total Vacuum Reading (in, H2O)         Total Flowrate (scfm)         Total Flowrate (scfm)         Total Flowrate (scfm)         N $2$ 10         Well       Extracting       Vacuum (in       Delivery       VOCs a         SVE VOCs (PID)(ppm)       IS 8.9       V/A         Air stripper effluent VOCs (PID)(ppm)       IS 8.9       V/A         Influent total VOCs (PID)(ppm)       IS 8.3       LAI-5       V/A         Influent total VOCs (PID)(ppm)       IS 7.3       LAI-8       V/A         Effluent total VOCs (PID)(ppm)       S.3       LAI-8       V/A         BTWC1, BTWC2       Q.1 // 4.0       Weit: Treatment System         Operating on Arrival (Yes/No):       No         Operating  |  | +L 0   | 8-6-08        |                | Maintain filte   | r in KO Drum   | (yes/no)         |  | 010       |         |
| Wells currently being extracted fromTotal Vacuum Reading (in. H2O)3.4WellExtractingVOCs at<br>(air/water)Total Flowrate (scfm)N, 2.10RW-2 $Y/Y$ 2.7 $N/A$ SVE VOCs (PID)(ppm)18.9RW-3 $Y$ 2.6 $N/A$ Air stripper effluent VOCs (PID)(ppm)18.3LA1-4 $Y/Y$ 2.6 $N/A$ Air stripper effluent VOCs (PID)(ppm)63.1LA1-5 $Y/Y$ 2.6 $N/A$ Influent total VOCs (PID)(ppm)63.1LA1-6 $N/Y$ 2.6 $N/A$ Effluent total VOCs (PID)(ppm)5.3LA1-6 $N/Y$ 2.6 $N/A$ BTWC1, BTWC29.4//4.0HW-1E $N/Y$ 2.2 $N/A$ Water Treatment System $N/A$ $N/A$ $N/A$ $N/A$ Operating on Arrival (Yes/No):NoOperating on Departure (Yes/No): $NO$ Operating on Arrival (Yes/No):No $NoOperating on Departure (Yes/No):NOIf stripper vacuum (in H2O)N/AN/AN + dacN + dacNar stripper uncurrent (in H2O)N/AN/AN + dacN + dacPressure on Carbon vessel (psi)N/AN + dacN + dacN + dacStorage tank oil level (water/product)N_BN + dacN + dacN + dacAir stripper effluent flow rate (gal/min)1/2 + QN + dacN + dacAir stripper effluent flow rate (gal/min)1/2 + QN + dacN + dacAir stripper effluent flow rate ($  | Influent Air Temp  | erature  |               | 125            | Check Float S  | Switch in KO d   | irum             |  | YES       |         |
| Under Vacuum (un H20)WellUnder Vacuum (un H20)Total Flowrate (sefm)N/ARW-2I/YN/ASVE VOCs (PID)(ppm)18.9RW-3LAI-4Y/Y2.6N/AAir stripper effluent VOCs (PID)(ppm)IS 3LAI-6N/AAir stripper effluent total VOCs (PID)(ppm)G.3.1LAI-6N/ALAI-6N/ALAI-6N/ALAI-6N/ALAI-6N/ALAI-6N/ALAI-6N/ALAI-6N/ALAI-6N/ALAI-6N/ALAI-6N/ALAI-6N/ALAI-6N/ALAI-6N/ALAI-6N/ALAI-6N/ABTWC1. BTWC2N/AOperating on Arrival (Yes/No):NoOperating on Arrival (Yes/No):NoOperating on Arrival (Yes/No):No <th col<="" td=""><td>en en e</td><td></td><td></td><td>214</td><td>1</td><td>Wells curren</td><td>tly being extra</td><td>cted from</td><td></td></th>   | <td>en en e</td> <td></td> <td></td> <td>214</td> <td>1</td> <td>Wells curren</td> <td>tly being extra</td> <td>cted from</td> <td></td>  | en e   |               |                | 214  | 1  | Wells curren     | tly being extra                          | cted from |         |
| (arrwater)H200PressureWeil (PID)Total Flowrate (sofm)N<210   | Total Vacuum Rea   | iding (in. H2O   | )             | 57             | Wall   |  |                  |  |           |         |
| SVE VOCs (PID)(ppm)18.9RW-3<br>RW-7Air stripper effluent VOCs (PID)(ppm)18.3LAI-4YY2.6Influent total VOCs (PID)(ppm)63.1LAI-5YY2.6Influent total VOCs (PID)(ppm)63.1LAI-5YY2.6Effluent total VOCs (PID)(ppm)5.3LAI-6NY   |  | ng dan tingkan an a   |               | 1- 010         |  | (air/water)  |                  | Pressure                                 |           |         |
| SVE VOCs (PID)(ppm)       18.9       RW.7       V       V         Air stripper effluent VOCs (PID)(ppm)       18.3       LAI-6       V       V       V         Influent total VOCs (PID)(ppm)       63.1       LAI-6       V       V       V       V         Effluent total VOCs (PID)(ppm)       63.1       LAI-6       V       V       V       V         Effluent total VOCs (PID)(ppm)       5.3       LAI-8       V       V       2.0       V         BTWC1. BTWC2       9.4       3.2       V       V       V       V       V       V         BTWC1. BTWC2       9.4       4.0       V  | Total Flowrate (sc   | fm)  |               | NA 210         |  | 4/4  | 29               |  | NA        |         |
| Size roos (II D) (ppm)18.3LAI-4 $\sqrt{1/3}$ $2.6$ $N/A$ Air stripper effluent VOCs (PID) (ppm)63.1LAI-5 $\sqrt{1/3}$ $2.6$ $N/A$ Influent total VOCs (PID) (ppm)63.1LAI-6 $N/4$ $3.0$ $$ Effluent total VOCs (PID) (ppm)5.3LAI-7 $\sqrt{1/3}$ $3.0$ $$ BTWC1. BTWC2 $9.4//4.0$ HW-1E $N/4$ $3.0$ $$ $$ BTWC1. BTWC2 $9.4//4.0$ HW-1E $N/4$ $3.0$ $$ $$ Water Treatment System $N/A$ $N/A$ $$ $N/A$ Water Treatment SystemOperating on Arrival (Yes/No): $N_0$ Operating on Arrival (Yes/No): $N_0$ Operating on Arrival (Yes/No):NoMonthly Maintenance ItemsHour Meter ReadingsMonthly Maintenance ItemsMonthly Maintenance Items  |  |  | 14            | 189            |  | $\left  + \dot{\gamma} \right\rangle$  | h a              | $\sim \sim$                              | hn.       |         |
| Air stripper effluent VOCs (PID)(ppm)       18.3       LAI-5       1 N       2.6         Influent total VOCs (PID)(ppm)       63.1       LAI-6       N/Y   | SVE VOCs (PID)(  | (ppm)  |               | 10 + 1         |  |  | 21.              |  | NIA       |         |
| Influent total VOCs (PID)(ppm)       63.1       LAI-6       N/Y  | A in drinner office  |  | (mm)          | 18.2           |  | 1313   |                  |  |           |         |
| Influent total VOCs (PID)(ppm)       63.1       LAI-7       Y / Y       25   | An supper enfuer   | n vous (FID)   | (ррш)         |                |  | NIN  |                  |  |           |         |
| Effluent total VOCs (PID)(ppm)       5.3       LAI-8       Y/N       30         BTWC1, BTWC2       9.4//4.0       HW-1E       N/Y       3.2         Water Treatment System       N/Y       -       N/A         Operating on Arrival (Yes/No):       No         Operating on Arrival (Yes/No):       No       Operating on Departure (Yes/No):       No         Operating on Arrival (Yes/No):       No         Operating on Departure (Yes/No):       No         Monthly Maintenance Items         Mouth System down:       Compressor         Alar Stripper vacuum (in H2O)         Arrive stripper vacuum (in H2O)         Pressure on Carbon vessel (psi)         Storage tank oil level (water/product)       Pth         Pressure on filter housing (psi)         Clean Air Stripper (yes/no)       QX         Air stripper influent flow meter (gal)       248/64       Change oil in air compressor (yes/no)       QX         Air stripper effluent flow meter (gal)  | Influent total VOC   | (PID)(ppm)   |               | 63.1           | §  |  | 25               |  |           |         |
| Elimeter (dat voes() (D)(p)n)       P. 4/4.0       HW-IE       N/4       N/4         BTWC1, BTWC2       P. 4/4.0       HW-IE       N/4       N/4         Water Treatment System         Operating on Arrival (Yes/No):       No         Operating on Arrival (Yes/No):       No         Operating on Arrival (Yes/No):       No         Operating on Departure (Yes/No):       No         Operating on Arrival (Yes/No):       No         Operating on Arrival (Yes/No):       No         Operating on Departure (Yes/No):       No         Advantage of the Arrival (Yes/No):       No         Advantage of the Arrival (Yes/No):       No         Advantage of the Arrival (Yes/No):       No         Monthity Maintenance Items         Monthity Maintenance Items         Otheck pressure relief valve operation in air compressor tank (yes/no)         Advantage of the Arrival (Yes/No)       Ne  |  | X  |               |                | LAI-8  | YIN  | 30               |  |           |         |
| BTWC1, BTWC2       9.99/9.0       HW-1W       N       N       A         Water Treatment System         Operating on Arrival (Yes/No):       No         Operating on Arrival (Yes/No):       No         Operating on Arrival (Yes/No):       No         Operating on Departure (Yes/No):       No         Operating on Departure (Yes/No):       No         System Readings         Hour Meter Reading (hrs)       152-72.8       Check pressure relief valve operation in air compressor (yes/no)       OY         Alarm Hours (in panel digital display)         Alarm Hours (in panel digital display)         Alarm Hours (in panel digital display)         Analysis         System Readings         Manually drain water in air compressor tank (yes/no)         Ye S         Check pressure relief valve operation in air compressor tank (yes/no)         Ye S         Storage tank oil level (water/product)         The         The S         Check settling tank for sludge buildup (tes/no)         As ripper influent flow meter (gal)       24.921.021.021.021.001.00   | Effluent total VOC   | Cs (PID)(ppm)  |               | 5.5            |  |  | 32               |  |           |         |
| Water Treatment System         Water Treatment System         Operating on Arrival (Yes/No):       No         Operating on Departure (Yes/No):       No         Operating on Departure (Yes/No):       No         Operating on Departure (Yes/No):       No         Monthly Maintensance Items         Monthly Maintensance Items         Ox         Monthly Maintensance Items         Ox         Monthly Maintensance Items         Ox         Air stripper vacuum (in H2O)         Ox         Air stripper vacuum (in H2O)         Ox         Air stripper vacuum (in H2O)         Ox         Ox         Ox         Storage tank oil level (water/product)       Of ft         Clean Air Stripper (yes/no)       Ox         Air stripper influent flow meter (gal)       2 Storage tank oil level (water/product)       Of ft         Clean Air Stripper (yes/no)       Ox         Air stripp   |  |  |               | 9.4/14.0       |  |  |                  |  |           |         |
| Operating on Arrival (Yes/No):       No       Operating on Departure (Yes/No):       No         Operating on Arrival (Yes/No):       No       Operating on Departure (Yes/No):       No         If No, what alages shut system down:       Compressor       down / restarted and it shut of a hot do         No       Operating on Departure (Yes/No):       No         If No, what alages shut system down:       Compressor       down / restarted and it shut of a hot do         No       Operating on Departure (Yes/No):       No         Monthly Maintenance Items         Monthly Maintenance Items         Operating (hrs)       Operating on Departure (Yes/No):       No         Alarm Hours (in panel digital display)       Monthly Maintenance Items         Alarm Hours (in panel digital display)       Operating on Departure (Yes/No):       O Y         Monthly Maintenance Items         Monthly Maintenance Items         Operating (hs)       Operating (hs)       Operating (hs)         Strage tank oil level (water/product) <th c<="" td=""><td>BTWC1, BTWC2</td><td></td><td></td><td><u> </u></td><td>HW-IW</td><td>1~17</td><td>Water cid</td><td>le dan</td><td>IN Q tu</td></th>  | <td>BTWC1, BTWC2</td> <td></td> <td></td> <td><u> </u></td> <td>HW-IW</td> <td>1~17</td> <td>Water cid</td> <td>le dan</td> <td>IN Q tu</td>   | BTWC1, BTWC2   |               |                | <u> </u>   | HW-IW  | 1~17             | Water cid                                | le dan    | IN Q tu |
| f No, what alagest shut system down:       Compressor       down / restarted and it shut de Monthly Maintenance Items         f No, what alagest shut system down:       Compressor       down / restarted and it shut de Monthly Maintenance Items         Hour Meter Reading (hrs)       152728       Check pressure relief valve operation in air compressor (yes/no)       Ox         Alarm Hours (in panel digital display)       IS2728       Check pressure relief valve operation in air compressor (yes/no)       Ox         Air stripper vacuum (in H2O)       Manually drain water in air compressor tank (yes/no)       YE S         Pressure on Carbon vessel (psi)       Clean Air Stripper (yes/no)       OX         Storage tank oil level (water/product)       Prof. ft       Wae ap       Wae ap         Pressure on filter housing (psi)       Clean Air Stripper (yes/no)       OX         Air stripper influent flow meter (gal)       298164       Check settling tank for sludge buildup (yes/no)       OX         Air stripper effluent flow meter (gal)       2056630       Air compressor selonoid valve operating(v)n)       NA         Air stripper effluent flow rate (gal/min)       2005630       Air compressor selonoid valve operating(v)n)       PSCAA Discharge         Air stripper effluent flow rate (gal/min)       2005630       Air compressor selonoid valve operating(v)n)       PSCAA Discharge         Air stripper effluent flo  |  |  |               | Water Tre      | eatment Syste  | m  |                  | • •                                      | 1         |         |
| System ReadingsMonthly Maintenance ItemsHour Meter Reading (hrs)152-728Check pressure relief valve operation in air<br>compressor (yes)no)O (Alarm Hours (in panel digital display)  | Ope  | rating on Arri   | val (Yes/No): | No             |  | Operat   | ing on Departu   | re (Yes/No):                             | NO        |         |
| Monthly Maintenance ItemsHour Meter ReadingsISD-728Check pressure relief valve operation in air<br>compressor (yes)no)O tAlarm Hours (in panel digital display)  |  | ~  |               | DETECOS        | down   | Irector  | ted a.           | d it                                     | shut de   |         |
| Alarm Hours (in panel digital display)       compresso (yesho)       OY         Air stripper vacuum (in H2O)       Manually drain water in air compressor tank (yes/no)       y 5 S         Pressure on Carbon vessel (psi)       Manually drain water in air compressor tank (yes/no)       y 5 S         Storage tank oil level (water/product)       Manually drain water in air compressor tank (yes/no)       y 5 S         Pressure on filter housing (psi)       Clean Air Stripper (yes no)       Q <  |  |  |               | 1000           |  |  |                  |  |           |         |
| Alarm Hours (in panel digital display)       compresso (yes)no)       O Y         Air stripper vacuum (in H2O)       V       Manually drain water in air compressor tank (yes/no)       > J E S         Pressure on Carbon vessel (psi)       V       Manually drain water in air compressor tank (yes/no)       > J E S         Storage tank oil level (water/product)       V       Manually drain water in air compressor tank (yes/no)       > J E S         Pressure on filter housing (psi)       Clean Air Stripper (yes no)       O X         Air stripper influent flow meter (gal)       Z 9 8 16 4       Change oil in air compressor (yes no)       O X         Air stripper effluent flow meter (gal)       IP - 6       Check settling tank for sludge buildup (yes/no)       O X         Air stripper effluent flow meter (gal)       2005 6 30       Air compressor selonoid valve operating (y)n       N/A         Air stripper effluent flow rate (gal/min)       2005 6 30       Air compressor selonoid valve operating (y)n       N/A         Air stripper effluent flow rate (gal/min)       2005 6 30       Air compressor selonoid valve operating (y)n       N/A         Air stripper effluent flow rate (gal/min)       2005 6 30       Air compressor selonoid valve operating (y)n       N/A         Air stripper effluent flow rate (gal/min)       2005 6 30       Air compressor selonoid valve operating (y)n       PSCAA Discharge </td <td>Hour Mator Dog</td> <td>ng (hrs)</td> <td></td> <td>152720</td> <td>Check press</td> <td>ire relief valve</td> <td>operation in ai</td> <td>r</td> <td></td>  | Hour Mator Dog   | ng (hrs)   |               | 152720         | Check press  | ire relief valve   | operation in ai  | r  |           |         |
| Air stripper vacuum (in H2O)       Air stripper vacuum (in H2O)       Manually drain water in air compressor tank (yes/no)       Y € \$         Pressure on Carbon vessel (psi)       Manually drain water in air compressor tank (yes/no)       Y € \$       N € @ P         Storage tank oil level (water/product)       Pressure on filter housing (psi)       Clean Air Stripper (yes/no)       N € @ P         Air stripper influent flow meter (gal)       Z 98164       Change oil in air compressor (yes/no)       O £         Air stripper effluent flow rate (gal/min)       17.6       Check settling tank for sludge buildup (yes/no)       O £         Air stripper effluent flow meter (gal)       ~ 21 w/1ex/t       Product in retention pond (yes/no)       N A         Air stripper effluent flow rate (gal/min)       17.6       Check settling tank for sludge buildup (yes/no)       N A         Air stripper effluent flow rate (gal/min)       2005 6 3 0       Air compressor selonoid valve operating(y)       N A         Air stripper effluent flow rate (gal/min)       2005 6 3 0       Air compressor selonoid valve operating(y)       N A         Air stripper effluent flow rate (gal/min)       2005 6 3 0       Air compressor selonoid valve operating(y)       N A         Air stripper lifter       IO : 4 8       10 : 4 5       10 : 4 9       9648         Sample Time       11 : co       10 : 5 3       10  | and the second state of the se | determine a second s  | snlav)        | <u>177 128</u> |  |  | operation in a   | •  | OX        |         |
| Pressure on Carbon vessel (psi)       Manually drain water in air compressor tank (yes/no) $y \in z$ Storage tank oil level (water/product) $\gamma f_0^{\circ}$ ft $\omega z \ll p$ Pressure on filter housing (psi)       Clean Air Stripper (yes no) $\omega A \leq h < c r$ Air stripper influent flow meter (gal) $Z 981644$ Change oil in air compressor (yes no) $O \times$ Air stripper influent flow meter (gal) $17 \cdot 6$ Check settling tank for sludge buildup (yes/no) $O \times$ Air stripper effluent flow meter (gal) $2981642$ Product in retention pond (yes/no) $O \times$ Air stripper effluent flow rate (gal/min) $17 \cdot 6$ Check settling tank for sludge buildup (yes/no) $O \times$ Air stripper effluent flow rate (gal/min) $20056620$ Air compressor selonoid valve operating (y)n) $N A$ Air stripper effluent flow rate (gal/min) $20056620$ Air compressor selonoid valve operating (y)n) $N A$ Air Samples       SVE INF       AS EFF       Total Inf       Mid 1       Mid 2       Total Eff       Permit No.         Sample Time $11 \cdot 6^{\circ}$ $10 \cdot 5 \cdot 3$ $10 \cdot 5 \cdot 6$ $10 \cdot 4 \cdot 5$ $10 \cdot 4 \circ 9$ 9648         Water Samples       Total Inf       Post AS       Mid       Tot   | the second s   | the second s   | obin)         | <u> </u>       | तः   | /  |                  |  |           |         |
| Storage tank oil level (water/product)       No fty       ft       Defense   |  |  |               | K ap           | Manually dr  | ain water in air   | compressor tai   | nk (yes/no)                              | 1925      |         |
| Pressure on filter housing (psi)       Clean Air Stripper (yes(no))       WASHER         Air stripper influent flow meter (gal)       398164       Change oil in air compressor (yes(no))       0×         Air stripper influent flow rate (gal/min)       17.6       Check settling tank for sludge buildup (yes/no)       0×         Air stripper effluent flow meter (gal)       21.4/14xk       Product in retention pond (yes/no)       N/A         Air stripper effluent flow rate (gal/min)       2005620       Air compressor selonoid valve operating (y)n)       N/A         Air stripper effluent flow rate (gal/min)       2005620       Air compressor selonoid valve operating (y)n)       N/A         Air stripper effluent flow rate (gal/min)       2005620       Air compressor selonoid valve operating (y)n)       N/A         Air samples       SVE INF       AS EFF       Total Inf       Mid 1       Mid 2       Total Eff         Analysis       TPHg. BTEX       TPHg. BTEX       TPHg. BTEX       TPHg. BTEX       TPHg. BTEX       Yes of 48         Water Samples       Total Inf       Post AS       Mid       Total Eff       King County Metro         Analysis       TPHg&d. BTEX       TPHg&d. BTEX       TPHg. BTEX       TPHg. BTEX, PH       Discharge Permit No.  | and the second   |  | duct)         | PO The P       | 1  |  |                  | <u> </u>                                 | NGAP      |         |
| Air stripper influent flow meter (gal)       398164       Change oil in air compressor (ves(no))       0 ×         Air stripper influent flow rate (gal/min)       17.6       Check settling tank for sludge buildup (ves/no)       0 ×         Air stripper effluent flow meter (gal)       ~21 w/1ext       Product in retention pond (ves/no)       NA         Air stripper effluent flow rate (gal/min)       2005620       Air compressor selonoid valve operating (v)n)       NA         Air stripper effluent flow rate (gal/min)       2005620       Air compressor selonoid valve operating (v)n)       NA         Air stripper effluent flow rate (gal/min)       2005620       Air compressor selonoid valve operating (v)n)       PSCAA Discharge         Air samples       SVE INF       AS EFF       Total Inf       Mid 1       Mid 2       Total Eff         Analysis       TPHg. BTEX       TPHg. BTEX       TPHg. BTEX       ID . 45       ID . 45       9648         Water Samples       Total Inf       Post AS       Mid       Total Eff       King County Metro         Analysis       TPHg&d. BTEX       TPHg&d. BTEX       TPHg&d. BTEX, PH       Discharge Permit No.   |  | in the second  |               | /              | Clean Air St   | ripper (yes no)  |                  |  |           |         |
| Air stripper influent flow rate (gal/min)       17.6       Check settling tank for sludge buildup ((es)no)       O (         Air stripper effluent flow meter (gal)       ~21 // 100 k       Product in retention pond (yes/no)       NA         Air stripper effluent flow rate (gal/min)       2005 6 3 0       Air compressor selonoid valve operating (y)n)       NA         Air stripper effluent flow rate (gal/min)       2005 6 3 0       Air compressor selonoid valve operating (y)n)       PSCAA Discharge         Air Samples       SVE INF       AS EFF       Total Inf       Mid 1       Mid 2       Total Eff         Analysis       TPHg. BTEX       TPHg. BTEX       TPHg. BTEX       TPHg. BTEX       TPHg. BTEX       Permit No.         Sample Time       11.00       10.553       10.550       10.548       10.545       9648         Water Samples       Total Inf       Post AS       Mid       Total Eff       King County Metro         Analysis       TPHg&d. BTEX       TPHg. BTEX       TPHg&d. BTEX, PH       Discharge Permit No.  |  |  | (gal)         | 398164         | Change oil i   | n air compresso  | or (yes(no)      |  | OK        |         |
| Air stripper effluent flow meter (gal)       ~ 21 w/lexk       Product in retention pond (yes/no)       N/A         Air stripper effluent flow rate (gal/min)       2005 6 3 0       Air compressor selonoid valve operating((y)n)       N/A         Air stripper effluent flow rate (gal/min)       2005 6 3 0       Air compressor selonoid valve operating((y)n)       PSCAA Discharge         Air Samples       SVE INF       AS EFF       Total Inf       Mid 1       Mid 2       Total Eff         Analysis       TPHg. BTEX       TPHg. BTEX       TPHg. BTEX       TPHg. BTEX       TPHg. BTEX       Permit No.         Sample Time       11.00       10.45       10.45       10.45       10.468       9648         Water Samples       Total Inf       Post AS       Mid       Total Eff       King County Metro         Analysis       TPHg&d. BTEX       TPHg. BTEX       TPHg. BTEX       TPHg. BTEX. PH       Discharge   |  |  |               |                |  |  |                  | s)no)                                    | OK        |         |
| Air SamplesSVE INFAS EFFTotal InfMid 1Mid 2Total EffPSCAA DischargeAnalysisTPHg. BTEXTPHg. BTEXTPHg. BTEXTPHg. BTEXTPHg. BTEXTPHg. BTEXPermit No.Sample Time(1.00)(0.53)(0.50)(0.48)(0.54)(0.54)9648Water SamplesTotal InfPost ASMidTotal EffKing County MetroAnalysisTPHg&d BTEXTPHg&d. BTEXTPHg&d. BTEXTPHg&d. BTEX. PHDischarge Permit No.  |  |  |               |                |  |  |                  | ~  | NA        |         |
| Analysis       TPHg. BTEX       Permit No.         Sample Time       11.00       10.553       10.550       10.48       10.455       10.495       10.400       9648         Water Samples       Total Inf       Post AS       Mid       Total Eff       King County Metro         Analysis       TPHg&d BTEX       TPHg&d BTEX       TPHg&d BTEX       TPHg&d BTEX. PH       Discharge Permit No.  | Air stripper efflue  | nt flow rate (g  | al/min)       | 2005630        | Air compres  | sor selonoid va  | alve operating ( | y/n)                                     | L         |         |
| Analysis     TPHg. BTEX     Permit No.       Sample Time     11.50     10.55     10.55     10.48     10.45     10.45     10.40     9648       Water Samples     Total Inf     Post AS     Mid     Total Eff     King County Metro       Analysis     TPHg&d BTEX     TPHg&d. BTEX     TPHg&d. BTEX     TPHg&d. BTEX     TPHg&d. BTEX. PH  | Air Samples  | SVE INF  | AS EFF        | Total Inf      | Mid 1  | Mid 2  | Total Eff        | PSCAA                                    | Discharge |         |
| Water Samples         Total Inf         Post AS         Mid         Total Eff         King County Metro           Analysis         TPHg&d. BTEX         TPHg&d. BTEX         TPHg&d. BTEX         TPHg&d. BTEX         Discharge Permit No.  | Analysis   | TPHg. BTEX   | TPHg. BTEX    | TPHg. BTEX     |  | TPHg. BTEX   | TPHg. BTEX       | Per                                      | mit No.   |         |
| Analysis         TPHg&d. BTEX         TPHg&d. BTEX         TPHg&d. BTEX         TPHg&d. BTEX. PH   | Sample Time  | and the second | 10:53         | 10:50          |  |  | 10:40            | (  | 9648      |         |
|  | Water Samples  | Total Inf  | Post AS       | Mid            | То   | tal Eff  |                  | 3  |           |         |
| Sample Time 2° 11:40 11:30 11:20 4057-01   |  |  |               |                |  |  | <u></u>          | 1 1                                      |           |         |
|  | Sample Time  | 1200   | 111:40        | 11:30          | 1 11::   | >0   |                  | 40                                       | 057-01    |         |
|  | *NEED  | MORE   | AttACHN       | GNIT IL F      | orms f   | OR HAS   | sP.              |  |           |         |

**TestAmerica** 

THE LEADER IN ENVIRONMENTAL TESTING

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| CLIENT: COP                         |                       |         |     | INVOICE TO:         |                    |              |                | and a state of the second s |          |              |                     | TURNAL        | TURNAROUND REOUEST   |              |
|-------------------------------------|-----------------------|---------|-----|---------------------|--------------------|--------------|----------------|---|----------|--------------|---------------------|---------------|--|--------------|
| à                                   | instructing .         |         |     | 9                   | RICK FATTER LY     | 244          | とこと            |   |          |              |                     | <b>.</b>      | in Business Days *   |              |
| ADDRESS: 12021 1247                 | VA 98052              |         |     |                     |                    |              |                |   |          |              | -<br>-<br>)         | Organic &     | Organic & Inorganic Analyses                                     | <b>1</b>     |
| PHONE:424.372-1600FAX: 425-372-1650 | al・ニとこういい             | 50      | P.C | P.O. NUMBER:        |                    |              |                |   |          |              | 」<br>Ĵ₿             | Petroleum     | - S  | ]            |
| PROJECT NAME:                       |                       |         |     |                     | PRESI              | PRESERVATIVE |                |   |          |              | 9                   | 5 4           | 3 2 1 <1   |              |
| PROJECT NUMBER.                     |                       |         |     |                     |                    |              |                |   | 1        |              |                     | ]<br>]<br>]o: | ]  | 7            |
|                                     |                       |         |     |                     | REQUESTED ANALYSES | D ANALY      | SES            |   |          |              |                     | OTHER         | Specify:   |              |
| SAMPLED BY:                         |                       |         | X   |                     |                    |              |                |   |          |              | * Turnaround        | Requests less | * Turnaround Requests less than standard may incur Rush Charges. | ush Charges. |
| CLIENT SAMPLE<br>IDENTIFICATION     | SAMPLING<br>DATE/TIME | ·HJT    | 818 |                     |                    |              |                |   |          |              | MATRIX<br>(W, S, O) | # OF<br>CONT. | LOCATION/<br>COMMENTS  | TA<br>WO ID  |
| TOR EFF                             | 4) -> 01 & 10: 40     | ~<br>4  |     |                     |                    |              |                |   |          |              | AIR                 |               | 3485   | ŴД           |
| 2 MN 2                              | Sh:01 2 1             | ~ ~     |     |                     |                    |              |                |   |          |              |                     |               |  |              |
| 5 Mio 1                             | N = 10:48             | スメ      |     |                     |                    |              |                |   |          |              |                     | -             |  |              |
| して よった。                             | @ 10:so               | X       |     |                     |                    |              |                |   |          |              |                     |               |  |              |
| S AS EFE                            | ES:01 @               | ~~      |     |                     |                    |              |                |   |          |              | >                   |               |  |              |
| SVE TAF                             | 4)>1 /09 C 11:00      | ×<br>.× |     |                     |                    |              |                |   |          |              | AIR                 | ~             | 3485   | NA<br>A      |
| 1                                   |                       |         |     |                     |                    |              |                |   |          |              |                     |               |  |              |
| 8                                   |                       |         |     |                     |                    |              |                |   |          |              |                     |               |  |              |
|                                     |                       |         |     |                     |                    |              |                |   |          |              |                     |               |  |              |
| 2                                   |                       |         |     |                     |                    |              |                | 11  | 6        |              |                     |               |  |              |
| RELEASED BY: X L K                  | Junes FIRM: St        | 5000000 |     | DATE: 4<br>TIME: // | 60-12-             | REC          | RECEIVED BY: / | atrif   | Para 6/2 | tt<br>ti bil | FIRM:               | K             | DATE: "  | 1/101        |
| RELEASED BY:<br>print name.         | Wata                  |         |     | DATE:               |                    | REC          | RECEIVED BY:   |   |          |              |                     |               | DATE:  |              |
| ADDITIONAL REMARKS:                 |                       |         |     | 11MIC.              |                    |              |                | 24<br>24  |          |              | MILI                |               | TEMP:  |              |
|                                     |                       |         |     |                     |                    |              |                |   |          |              |                     |               | PAGE   | OF           |

TAL-1000(0408)

. Na

SITE OBSERVATION REPORT 3485 Project: File No. Contractor: Project No. COP Owner: Project No. RENTON WA Stantec 4/24/09 Location: Date: Page SUNNY ~ 45°F L.Rawlins onsite, sign in text M. Tolley. Purpose Vapor check and get serial number for compressor. Put on PPE Review HASP/Safety. Set up. \* Need more attch 11 on-site. PID readings & EFF 2.9ppm Plus 2.2 3 g oo 9:0 9:20 Btwn 2-3 3.1 ppm Btwn 1+2 5.5 ppm compressor: 200 psi @ 650 F RT-NOMDMT-20 F & 200 PSI CAT \$ 301060 YR 2008 (RN E7400.2C SH 184 GAL 60 HP. 149 2:1 515 on air intate: model: 2475 SN: 8017476 Called Ingersoll-Rand: Repairman will meet me \$:00 am pt Tues 428.09. Remove P.P.E. Called M.T and signed 9:00 10:05 out. Leaving site-L'Rawlins J.Pm

Remediation System Operation Log 2423 Lind Ave, Renton WA

SECOR PN: 01CP.03485.45

Date: 4/28/09

Time: 10-35

Inspected By: L- Rawlins

|  |  |  | Genera  | Site Status   |                        |                    |                      |                       |
|--|--|--|---|---|------------------------|--------------------|----------------------|-----------------------|
| Motor Control Cer<br>status and that pan |  | or switch  | yas low   | Hoses Inspect   | ed (yes/no):           | YES 10             | ۷                    |                       |
| Flow meters check                        |  | on and leaks   | effluent<br>leak                                | Tanks inspect   | ed for leaks, b        | io-growth          |                      | YES/OK                |
| -  | 77 (17 <b>-</b> 11-11-11)  |  | SVI   | System  |                        |                    |                      |                       |
| Ope                                      | rating on Arriv  | /al (Yes/No):  | 495   |   | Operati                | ng on Departui     | re (Yes/No):         | YES                   |
| If No, what alarm                        | s shut system o  | lown:  |   |   |                        |                    |                      |                       |
|  | System I   | War States and States and a  |   |   | Quarterl               | y Maintenanc       | e Items              |                       |
| Hour Meter Readu                         | ng (hrs) 30  | 266.2  | 12038   | Add/Change of   | oil in SVE blo         | wer (ves/no)       |                      | OK                    |
| Hour Meter Readin                        |  | 3-6-08   | te <del>ningginalises an anisis sinis s</del> a | Maintain filter   |                        |                    |                      | OK                    |
|  |  | 1  | 100°F   | Check Float S   |                        |                    | NAC                  | OK                    |
| Influent Air Temp                        | erature  |  | • -   |   |                        |                    | Yas                  | ~~                    |
|  |  |  | 34  |   |                        | tly being extr     |                      | NOCH                  |
| Total Vacuum Rea                         | adıng (in. H2O   | )  | ~ 1   | Well  | Extracting (air/water) | Vacuum (in<br>H20) | Delivery<br>Pressure | VOCs at<br>well (PID) |
| Tatal Diamata (an                        | fm)  |  | 210   | RW-2  | (air/water)            | n20)               | FICSSUIC             | wen (FID)             |
| Total Flowrate (sc                       | 1111)  |  |   |   |                        |                    |                      |                       |
| SVE VOCs (PID)                           | (nnm)  |  | N USCL  | RW-7  |                        |                    | /                    |                       |
| 3 V L V O C 3 (1 1 D )                   | (ppin)   |  | AC NIL JUT                                      | LAI-4   |                        |                    |                      |                       |
| Air stripper efflue                      | nt VOCs (PID   | )(ppm)   | CACON CHICK                                     | LAI-5   |                        |                    |                      |                       |
| in suppor onice                          |  | (PP)   |   | LAI-6   |                        |                    |                      |                       |
| Influent total VOC                       | Cs (PID)(ppm)  |  | 1.3   | LAI-7   |                        |                    |                      |                       |
|  | <u></u>  |  | ~ 1   | LAI-8   |                        | /                  |                      |                       |
| Effluent total VO                        | Cs (PID)(ppm)  | · · ·  | 2.7   | LAI-9   |                        |                    |                      |                       |
|  | -  |  | 5.9/3.5   | HW-1E   |                        |                    |                      |                       |
| BTWC1, BTWC2                             |  |  | 3.7 1 2.8                                       | HW-1W   |                        |                    |                      | L                     |
|  |  |  | Water Tro                                       | atment System   | 0                      |                    |                      |                       |
|  | erating on Arri  |  | No  |   |                        | ing on Departu     |                      |                       |
| If No, what alarm                        | is shut system   | down: COr  | npressoi  | · moto  | on ne                  | eds r              | eplac                | ed.                   |
|  |  | Readings   |   |   |                        | y Maintenanc       |                      |                       |
| Hour Meter Readi                         | ing (hrs)  |  | 154384  | Check pressu  | re relief valve        | operation in ai    | r                    |                       |
| Alarm Hours (in p                        | banel digital di   | splay)   | <   | compressor (  | yes/no)                |                    |                      | 1                     |
| Air stripper vacuu                       | ım (in H2O)  |  |   | Manually dea  | in water in sir        | compressorta       | tk (ves/no)          |                       |
| Pressure on Carbo                        | on vessel (psi)  |  |   | Intanually dia  | in water in all        | compressor         |                      |                       |
| Storage tank oil le                      |  | duct)  | ft/ ft  |   |                        | /                  |                      |                       |
| Pressure on filter l                     | housing (psi)  |  |   |   | ipper (yes/no)         | -                  |                      |                       |
| Air stripper influe                      | Construction of the second | and the second   | 398 524   | and the second se | air compress           |                    |                      |                       |
| Air stripper influe                      |  |  |   |   |                        | lge buildup (ye    | es/no)               |                       |
| Air stripper efflue                      |  | and the second   | 2005970   |   | tention pond (         |                    |                      |                       |
| Air stripper efflue                      | nt flow rate (g  | al/min)  |   | Air compress  | or selonoid va         | alve operating (   | (y/n)                | 1                     |
| Air Samples                              | SVE INF  | AS EFF   | Total Inf                                       | Mid 1   | Mid 2                  | Total Eff          | PSCAA                | Discharge             |
| Analysis                                 | TPHg. BTEX   | TPHg. BTEX   | TPHg. BTEX                                      | TPHg. BTEX  | TPHg. BTEX             | TPHg. BTEX         |                      | nit No.               |
| Sample Time                              | sadd <u>a tarada a san an an Aita</u> n sa a   | en en esta en e<br>Esta esta esta esta esta esta esta esta e | i i i i   |   |                        |                    | 9                    | 648                   |
| Water Samples                            | Total Inf  | Post AS  | Mid   | Tot   | al Eff                 |                    | King Co              | unty Metro            |
| Analysis                                 | TPHg&d. BTEX   | TPHg&d, BTEX   | TPHg. BTEX                                      | TPHg&d.   | BTEX, PH               |                    |                      | e Permit No.          |
| Sample Time                              |  |  |   |   |                        |                    | 40                   | 57-01                 |
| General Commen                           | ts (activities co  | nducted chan   | ges to system, etc                              | ):  |                        |                    |                      |                       |

SITE OBSERVATION REPORT 3485 Project: File No. Project No. Contractor COP Project No.-Owner: Date: April 28,200 9 Renton, WA Location: Stantec Page Rainy ~56°F 7:35 L. Rawlins on-site Porpose meet Ingensoll-Rand repair personnel for over-site Check vapor and pomp repair if weather allows. Check in at office pot on PP. E review Hacp/safety. 8:30 Check in at office pot on PP. E review Hacp/safety. Check on repair personnel 253-931-8600 Office says he left late and is enroute Ingersoll-Rand on-site. Terminal personnel (John) gave him (Fred) safety for site At remediation compound I gave hasp/safety meeting. 8:30 8:55 meeting. to Begin to look over initial worksite. Locked out / tagged out to work on electrical. System needs a new motor. This motor 9:30 Begin 10:00 should be enclosed. Hosing leaving compressor. should also be replaced to with stand 200psi not 160 currently used. Should use copper pr aluminum. Fred will get estimate and information Compressor is off and lock out. Key is 10:15 HASP Binder onsite. Fred leaving site Will begin vapor check Took system readings. Water treatment side is off. Call P.M. 10:30 10:50 1:30 Leaving site. 2 Rawlins Z Ralis "Rite in the Rain".

SECOR PN: 01CP.03485.45

Date: 4/30/09

Time: 110

Inspected By: L. Raylins

|   |  |   |                         | Site Status  |   |   |   |                                |
|---|--|---|-------------------------|--|---|---|---|--------------------------------|
| Motor Control Cen<br>status and that pane   |  | r switch  |                         | Hoses Inspecte<br>Comments:  | xd (yes/no):  | 425/2   | 210   |                                |
| Flow meters checke  |  | n and leaks   | effloent<br>leak        | Tanks inspecte   | d for leaks, bi   | o-growth  |   | 725/0                          |
|   |  | 1   |                         | System   |   |   |   |                                |
| Oner  | ating on Arriv   | al (Yes/No):  | 495                     |  | Operatir  | ng on Departur  | e (Yes/No):   | 195                            |
| If No, what alarms  |  |   |                         |  |   |   |   | 7                              |
|   | System F   | a second and the second and a   |                         |  | Quarterly   | Maintenanc  | e Items   |                                |
| II. Matar Doodin  | 33   | 15.1  | 12086-9                 | Add/Change o   | il in SVF blox  | ver (ves/n)   |   | OK                             |
| Hour Meter Readin   | 1g (ms)<br>+ S-  | 7718  | 14                      | Maintain filter  |   |   | <del></del>   | ٥K                             |
|   |  | -6-08   | 115                     |  |   |   | 125   | DIC                            |
| Influent Air Tempe  | erature  |   | 11.5                    | Check Float S  |   |   | Contraction of the second second  | 010                            |
|   | 1  |   | 34                      |  |   | tly being extra   |   | MOCH                           |
| Total Vacuum Rea  | ding (in. H2O  | )   |                         | Well   | Extracting  | Vacuum (in  | Delivery  | VOCs at well (PID)             |
|   |  |   | 210                     | RW-2   | (air/water)   | H20)  | Pressure  | wen (FID)                      |
| Total Flowrate (scf   | m)   |   | 210                     | RW-2<br>RW-3   |   |   |   |                                |
| SVE VOCs (PID)(   | nnm)   |   | 5.6                     | RW-J<br>RW-7   |   |   |   |                                |
| SVE VOCS (FID)  | ppin)  |   |                         | LAI-4  | and the second  |   |   |                                |
| Air stripper effluen  | nt VOCs (PID)  | (ppm)   | OPERATING               | LAI-5  |   |   |   |                                |
| in suppor onder   |  | (PP)  |                         | LAI-6  |   | /   |   |                                |
| Influent total VOC  | s (PID)(ppm)   | 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - | 2.0                     | LAI-7  |   |   |   |                                |
|   |  |   | - 1                     | LAI-8  |   |   |   |                                |
| Effluent total VOC  | Cs (PID)(ppm)  |   | 3.6                     | LAI-9  |   |   |   | -                              |
| BTWC1, BTWC2  |  |   | 7.3/4.7                 | HW-1E<br>HW-1W   | -   |   |   |                                |
|   |  |   | Water Tre               | atment Systen  | o .   |   |   |                                |
| Ope   | rating on Arriv  | val (Yer/No)  | No                      |  | Operati   | ng on Departu   | ire (Yes/No)  | iNo                            |
| If No what alarm  | s shut system (  | Iown No.  | ed compr                | essan  | repair  | •   |   |                                |
| ii iid, while aight   | System I   | Readings  | ea comp                 |  | Monthl  | y Maintenanc  | e Items   |                                |
| TT ) (  |  |   |                         |  | Montul  | y maintenane  |   |                                |
| Hour Meter Readin   | ng (hrs)   |   |                         | Check pressu   |   | operation in a  |   |                                |
| Hour Meter Readin<br>Alarm Hours (in page   | Contraction of the local division of the loc |   |                         | Check pressur<br>compressor (y   | re relief valve   |   |   |                                |
|   | anel digital dis   |   |                         | compressor (y  | re relief valve<br>ves/no)  | operation in a  | ir  |                                |
| Alarm Hours (in p<br>Air stripper vacuur  | anel digital dis<br>m (in H2O)   |   |                         | compressor (y  | re relief valve<br>ves/no)  |   | ir  |                                |
| Alarm Hours (in pa<br>Air stripper vacuur<br>Pressure on Carbon   | anel digital dis<br>m (in H2O)<br>n vessel (psi)   | splay)  | ft/ ft                  | compressor (y  | re relief valve<br>ves/no)  | operation in a  | ir  |                                |
| Alarm Hours (in p<br>Air stripper vacuur  | anel digital dis<br>m (in H2O)<br>n vessel (psi)<br>vel (water/pro   | splay)  | ft/ ft                  | compressor (y<br>Manually dra<br>Clean Air Str   | re relief valve<br>ves/no)<br>in water in air<br>ipper (ves/no)   | operation in a  | ir  |                                |
| Alarm Hours (in pa<br>Air stripper vacuum<br>Pressure on Carbon<br>Storage tank oil lee<br>Pressure on filter h<br>Air stripper influer   | anel digital dis<br>m (in H2O)<br>n vessel (psi)<br>vel (water/pro-<br>nousing (psi)<br>nt flow meter (  | splay)<br>duct)<br>(gal)  | ft/ ft                  | Clean Air Str<br>Change off in   | re relief valve<br>ves/no)<br>in water in air<br>ipper (ves/no)<br>air compresso  | operation in a<br>compressor ta   | ir<br>nk (yes/no)   |                                |
| Alarm Hours (in pa<br>Air stripper vacuum<br>Pressure on Carbon<br>Storage tank oil lee<br>Pressure on filter h<br>Air stripper influer<br>Air stripper influer   | anel digital dis<br>m (in H2O)<br>n vessel (psi)<br>vel (water/pro-<br>nousing (psi)<br>nt flow meter (<br>nt flow rate (ge  | splay)<br>duct)<br>(gal)<br>al/min)   | ft/ ft                  | compressor (y<br>Manually dra<br>Clean Air Str<br>Change off in<br>Check settling  | re relief valve<br>ves/no)<br>in water in air<br>ipper (ves/no)<br>air compresso<br>g tank for slud   | operation in a<br>compressor ta<br>or (yes/no)<br>ge buildup (ye  | ir<br>nk (yes/no)   |                                |
| Alarm Hours (in pa<br>Air stripper vacuum<br>Pressure on Carbon<br>Storage tank oil ler<br>Pressure on filter h<br>Air stripper influer<br>Air stripper influer<br>Air stripper effluer   | anel digital dis<br>m (in H2O)<br>n vessel (psi)<br>vel (water/pro-<br>housing (psi)<br>nt flow meter (<br>nt flow rate (g<br>nt flow meter (  | splay)<br>duct)<br>(gal)<br>al/min)<br>(gal)  | ft/ ft                  | Clean Air Str<br>Clean Air Str<br>Change off in<br>Check settling<br>Product in ret  | re relief valve<br>ves/no)<br>in water in air<br>ipper (ves/no)<br>air compresso<br>g tank for sluc<br>tention pond (j  | operation in a<br>compressor ta<br>or (yes/no)<br>lge buildup (ye<br>yes/no)                                | ir<br>ink (yes/no)<br>es/no)  |                                |
| Alarm Hours (in pa<br>Air stripper vacuum<br>Pressure on Carbon<br>Storage tank oil lee<br>Pressure on filter h<br>Air stripper influer<br>Air stripper influer   | anel digital dis<br>m (in H2O)<br>n vessel (psi)<br>vel (water/pro-<br>housing (psi)<br>nt flow meter (<br>nt flow rate (g<br>nt flow meter (  | splay)<br>duct)<br>(gal)<br>al/min)<br>(gal)<br>al/min)   | ft/ ft                  | Clean Air Str<br>Clean Air Str<br>Change off in<br>Check settling<br>Product in ret  | re relief valve<br>ves/no)<br>in water in air<br>ipper (ves/no)<br>air compresso<br>g tank for sluc<br>tention pond (j  | operation in a<br>compressor ta<br>or (ves/no)<br>lge buildup (ve<br>ves/no)<br>llve operating              | ir<br>ink (yes/no)<br>es/no)  |                                |
| Alarm Hours (in pa<br>Air stripper vacuum<br>Pressure on Carbon<br>Storage tank oil ler<br>Pressure on filter h<br>Air stripper influer<br>Air stripper influer<br>Air stripper effluer   | anel digital dis<br>m (in H2O)<br>n vessel (psi)<br>vel (water/pro-<br>housing (psi)<br>nt flow meter (<br>nt flow rate (g<br>nt flow meter (  | splay)<br>duct)<br>(gal)<br>al/min)<br>(gal)  | ft/ ft<br>Total Inf     | Clean Air Str<br>Clean Air Str<br>Change off in<br>Check settling<br>Product in ret  | re relief valve<br>ves/no)<br>in water in air<br>ipper (ves/no)<br>air compresso<br>g tank for sluc<br>tention pond (j  | operation in a<br>compressor ta<br>or (yes/no)<br>lge buildup (ye<br>yes/no)                                | ir<br>ink (yes/no)<br>es/no)<br>(y/n)<br>PSCAA                              | A Discharge                    |
| Alarm Hours (in pa<br>Air stripper vacuum<br>Pressure on Carbon<br>Storage tank oil ler<br>Pressure on filter h<br>Air stripper influer<br>Air stripper influer<br>Air stripper effluer   | anel digital dis<br>m (in H2O)<br>n vessel (psi)<br>vel (water/pro-<br>nousing (psi)<br>nt flow meter (<br>nt flow rate (gen<br>nt flow meter (<br>nt flow rate (gen   | splay)<br>duct)<br>(gal)<br>al/min)<br>(gal)<br>al/min)   |                         | compressor (y<br>Manually dra<br>Clean Air Str<br>Change off in<br>Check settling<br>Product in ret<br>Air compress                                | re relief valve<br>ves/no)<br>in water in air<br>ipper (ves/no)<br>air compresso<br>g tank for slud<br>tention pond ()<br>or selonoid va                        | operation in a<br>compressor ta<br>or (ves/no)<br>lge buildup (ve<br>ves/no)<br>llve operating              | ir<br>ink (yes/no)<br>es/no)<br>(y/n)<br>PSCAA<br>Per                       | mit No.                        |
| Alarm Hours (in p.<br>Air stripper vacuum<br>Pressure on Carbon<br>Storage tank oil ler<br>Pressure on filter h<br>Air stripper influer<br>Air stripper influer<br>Air stripper effluer<br>Air stripper effluer<br>Air stripper effluer   | anel digital dis<br>m (in H2O)<br>n vessel (psi)<br>vel (water/pro-<br>nousing (psi)<br>nt flow meter (<br>nt flow rate (g<br>nt flow rate (g<br>SVE INF   | splay)<br>duct)<br>(gal)<br>al/min)<br>(gal)<br>al/min)<br>ASEFF  | Total Inf               | compressor (y<br>Manually dra<br>Clean Air Str<br>Change off in<br>Check settling<br>Product in ret<br>Air compress<br>Mid 1<br>TPHg. BTEX         | re relief valve<br>ves/no)<br>in water in air<br>ipper (ves/no)<br>air compresso<br>g tank for slud<br>tention pond ()<br>or selonoid va<br>Mid 2<br>TPHg. BTEX | operation in a<br>compressor ta<br>or (yes/no)<br>lge buildup (ye<br>yes/no)<br>live operating<br>Total Eff | ir<br>ink (yes/no)<br>es/no)<br>(y/n)<br>PSCAA<br>Per                       | _                              |
| Alarm Hours (in p.<br>Air stripper vacuum<br>Pressure on Carbon<br>Storage tank oil le<br>Pressure on filter h<br>Air stripper influer<br>Air stripper influer<br>Air stripper effluer<br>Air stripper effluer<br>Air stripper effluer<br>Air stripper effluer<br>Air Samples<br>Analysis<br>Sample Time<br>Water Samples | anel digital dis<br>m (in H2O)<br>n vessel (psi)<br>vel (water/pro-<br>nousing (psi)<br>nt flow meter (<br>nt flow rate (g<br>nt flow rate (g<br>SVE INF   | splay)<br>duct)<br>(gal)<br>al/min)<br>(gal)<br>al/min)<br>ASEFF  | Total Inf               | compressor (y<br>Manually dra<br>Clean Air Str<br>Change off in<br>Check settling<br>Product in ret<br>Air compress<br>Mid 1<br>TPHg. BTEX         | re relief valve<br>ves/no)<br>in water in air<br>ipper (ves/no)<br>air compresso<br>g tank for slud<br>tention pond (j<br>or selonoid va<br>Mid 2               | operation in a<br>compressor ta<br>or (yes/no)<br>lge buildup (ye<br>yes/no)<br>live operating<br>Total Eff | ir<br>ink (yes/no)<br>es/no)<br>(y/n)<br>PSCAA<br>Per<br>King Co            | mit No.<br>9648<br>ounty Metro |
| Alarm Hours (in p.<br>Air stripper vacuum<br>Pressure on Carbon<br>Storage tank oil le<br>Pressure on filter h<br>Air stripper influer<br>Air stripper influer<br>Air stripper effluer<br>Air stripper effluer<br>Air stripper effluer<br>Air Samples<br>Analysis<br>Sample Time  | anel digital dis<br>m (in H2O)<br>n vessel (psi)<br>vel (water/pro-<br>nousing (psi)<br>nt flow meter (<br>nt flow rate (g-<br>nt flow meter (<br>nt flow rate (g-<br>SVE INF<br>TPHg. BTEX  | splay)<br>duct)<br>(gal)<br>al/min)<br>(gal)<br>al/min)<br>ASEFF<br>TPHg. BTEX                                  | Total Inf<br>TPHg. BTEX | compressor (y<br>Manually dra<br>Clean Air Str<br>Change off in<br>Check settling<br>Product in ret<br>Air compress<br>Mid 1<br>TPHg. BTEX<br>Tota | re relief valve<br>ves/no)<br>in water in air<br>ipper (ves/no)<br>air compresso<br>g tank for slud<br>tention pond ()<br>or selonoid va<br>Mid 2<br>TPHg. BTEX | operation in a<br>compressor ta<br>or (yes/no)<br>lge buildup (ye<br>yes/no)<br>live operating<br>Total Eff | ir<br>nk (yes/no)<br>es/no)<br>(y/n)<br>PSCAA<br>Per<br>King Co<br>Discharg | mit No.<br>9648                |

SITE OBSERVATION REPORT 3485 File No. Project: Project No. Contractor: COP Project No. Owner: Date: April 30 RENTON WA 2009 Location: Stantec Page r of SUNNY~57°F L. Rawlins onsite Porpose; pomp repair, vapar/system check and carbon sampling. Signed in at office. Check in with P.M's CG. and R.F. Put on 10:30 PPE, review hasp and safety. 11.10 Begin set up. Begin with vapor check 11:45 Vapor check complete. Set up for pump flange repair Put flange/impeller work is complete, Put flange/impeller work is complete, Primed and checked no apparent leakage. Called R. Fetterly and informed of vapor and pump status. Packing up tools. Logding tools needed for carbon sampling. 14:55 1640 Finished carbon grab samples and I for CCS Sign out at office Remove Finished bag P.P.E. Call P.M. Leave site 1700 OFF site L-Rawlins Z.R.h. "Rite in the Rin"

<u>TestAmerica</u>

THE LEADER IN ENVIRONMENTAL TESTING

11922 E. First Ave, Spokane, WA 99206-5302 9405 SW Nimbus Ave,Beaverton, OR 97008-7145 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244

425-420-9200 FAX 420-9210 509-924-9200 FAX 924-9290 503-906-9200 FAX 906-9210 907-563-9200 FAX 563-9210

| CLIENT: CUP                           |                       |           | INVOICE TO:    | TO:    |                             |    |                                  |    | TURNAI                                     | JRNAR                  | TURNAROUND REQUEST   |             |
|---------------------------------------|-----------------------|-----------|----------------|--------|-----------------------------|----|----------------------------------|----|--|------------------------|--|-------------|
| Rick F                                | structury & stanter   | · C 0 M   | Î              |        |                             |    |                                  |    |  | in B                   | in Business Days *   |             |
| ADDRESS: Linda Kawins<br>12034 13444  | 12 C C                | SUITS 102 |                |        |                             |    |                                  |    | <u>۲</u>                                   | ganic & In             | Organic & Inorganic Analyses   | 7           |
| PHONE: 425 27216 00                   | イスイ                   | 50        | P.O. NUMBER:   | BER:   |                             |    |                                  |    |  | troleum H              | ocarbon Analyse  | - 1         |
| broject NAME: 3 み らん                  |                       |           |                | PRESE  | PRESERVATIVE                |    |                                  |    | X  | 4                      | 3 2 1 <1   |             |
| PROJECT NUMBER:                       |                       |           |                |        |                             |    |                                  |    | STD.                                       | Ē                      |  |             |
| SAMPLED BY: 1 RAL                     | Rawlings              |           |                |        | KEQUESTED ANALYSES          |    |                                  | 1* | <b>OTHER</b><br><i>Turnaround Request.</i> | EK Sp<br>nests less th | OTHER Specify:<br>* Turnaround Requests less than standard may incur Rush Charges. | sh Charges. |
| CLIENT SAMPLE<br>IDENTIFICATION       | SAMPLING<br>DATE/TIME | 1171      |                |        |                             |    |                                  |    | MATRIX<br>(W. S. O)                        | # OF<br>CONT.          | LOCATION/<br>COMMENTS  | TA<br>WO ID |
| . CARSON GIRAS                        | ALBOLOW EK:45         | X         |                |        |                             |    |                                  |    | CARBON                                     | Ч                      | 3485   | MA          |
|                                       |                       |           |                |        |                             |    |                                  |    |  |                        |  |             |
|                                       |                       |           |                |        |                             |    |                                  |    |  |                        |  |             |
|                                       |                       |           |                |        |                             |    |                                  |    |  |                        |  |             |
|                                       |                       |           |                |        |                             |    |                                  |    |  |                        |  |             |
| 9                                     |                       |           |                |        |                             |    |                                  |    |  |                        |  |             |
| 7                                     |                       |           |                |        |                             |    |                                  |    |  |                        |  |             |
|                                       |                       |           |                |        |                             |    |                                  |    |  |                        |  |             |
|                                       |                       |           |                |        |                             |    |                                  |    |  |                        |  |             |
| 10                                    |                       |           |                |        |                             |    |                                  |    |  |                        |  | Ì           |
| RELEASED BY: I RELEASED BY: I RALLING | FIRM:                 | STAUTEC   | DATE:<br>TIME: | 51.109 | RECEIVED BY<br>PRINT NAME:  | 30 | letti luuleune<br>Molette Meavep |    | FIRM:                                      | FIRM: TAL SERTH        | DATE: 04<br>TIME:  | - 60100     |
| RELEASED BY:<br>PRINT NAME:           |                       |           | DATE:<br>TIME: |        | RECEIVED BY:<br>PRINT NAME: | X  |                                  |    | FIRM:                                      |                        | DATE:<br>TIME:   |             |
| ADDITIONAL REMARKS:                   |                       |           |                |        |                             |    |                                  |    |  |                        | TEMP   |             |
|                                       |                       |           |                |        |                             |    |                                  |    |  |                        | PAGE   | OF          |

TAL-1000(0408)

SITE OBSERVATION REPORT File No. 3485 Project No. Project: Project No. 7109 Contractor: COP Date: Owner: RENTON WA Page location: Stantec Cloody~67°F L. Rawlins on-site Called T. Parise porpose: Vapor check and take m of berm in tank area. 12:20 measuremen Pot on P.P.E. Review HASP/safe Begin calibration and system 12:45 Pot on meeting. satet 13:00 readings farm 14:00 completed vapor check Going to tank measurements get vac readings bern/wall and 30093 \* note s/N of compressor 08072 15:05 Finished vac readings and wall measurements and pictures around tanks 1, 2, 3 and tank 5 Starting to rain will check with pm to other tank areas are necessary. If so will get on 5-6-09. Pack up equipment and check out at office. Remore PPE and leave site after call 15:10 15:20 T. Parise. 2 Rawlins & Ranhi

Remediation System Operation Log 2423 Lind Ave, Renton WA

SECOR PN: 01CP.03485.45

| Date: | 54  | -09 |
|-------|-----|-----|
| Dail. | / / | ÷ . |

Time: 13:10

Inspected By: X. RAWLINS

|                      |                   |  |                    | Site Status     |   |  |                           |  |
|----------------------|-------------------|--|--------------------|-----------------|---|--|---------------------------|--|
| Motor Control Cent   |                   | switch   | 7/014              | Hoses Inspecte  | d (yes/no):   | Y23/0  | SIC                       |  |
| status and that pane |                   |  |                    | Comments:       |   |  |                           | 1.0  |
| Flow meters checke   | ed for operation  | n and leaks  | leak ff            | Tanks inspecte  | d for leaks, bi   | io-growth  |                           | NO   |
|                      |                   |  | SVE                | System          | en si sita  |  |                           | , solds the  |
| Oner                 | ating on Arriv    | al (Yes/No):   | V2S                |                 | Operati   | ng on Departur   | e (Yes/No):               | Y25  |
| If No, what alarms   |                   |  |                    |                 |   |  |                           | ,  |
| II 140, what dialans | System R          | in a second del Control I i del control a secondaria |                    |                 | Quarterl  | y Maintenanc   | e Items                   | ling taka  |
|                      | 24                | 10.4   | 12 1822            | Add/Change c    | il in SVE blo   | wer (ves/no)   |                           | Y  |
| Hour Meter Readin    |                   | 771.8  | 12,10==            | Maintain filter | and the second se |  |                           |  |
|                      | ٦ <u>ل</u>        | 8-6-0-6  | 152                |                 |   |  |                           |  |
| Influent Air Tempe   | erature           | 1  | J75                | Check Float S   |   |  |                           | 1  |
|                      |                   |  | 201                |                 | Wells curren  | tly being extra  | acted from                | . Linger and a start of the start  |
| Total Vacuum Rea     | ding (in. H2O)    | )  | 28                 | Well            | Extracting  | Vacuum (in   | Delivery                  | VOCs at  |
|                      |                   |  | <b>N</b> 100       |                 | (air/water)   | H20)   | Pressure                  | well (PID)   |
| Total Flowrate (scf  | m)                |  | 210                | RW-2            |   | 23   |                           |  |
|                      |                   |  | 1112               | RW-3            |   |  |                           | 1997 - 19 |
| SVE VOCs (PID)       | ppm)              | 97   | 14.3               | RW-7            |   |  |                           |  |
|                      |                   |  |                    | LAI-4           |   | 20   |                           |  |
| Air stripper effluer | nt VOCs (PID)     | (ppm)  |                    | LAI-5           |   | 20   |                           |  |
|                      |                   |  | 2.8                | LAI-6           |   |  |                           |  |
| Influent total VOC   | s (PID)(ppm)      |  | <i>A</i> +0        | LAI-7           |   | 20   |                           |  |
|                      |                   |  | 2.9                | LAI-8           | lim booken  | 24   |                           | 1  |
| Effluent total VOC   | Cs (PID)(ppm)     |  |                    | LAI-9           |   | 25   |                           |  |
| DENIGI DENICO        |                   |  | 10.4/ 8.0          | HW-1E<br>HW-1W  |   | 1  |                           |  |
| BTWC1, BTWC2         |                   |  | //                 |                 |   |  | a 22.78                   |  |
|                      |                   |  | water are          | atment Syster   |   | ting on Departi  | me (Ves/No)               |  |
|                      | rating on Arriv   |  |                    |                 | DOUJO   | ~  |                           |  |
| If No, what alarm    |                   |  | OMPRES.            | <u> 2015</u>    |   |  | Alterna                   |  |
|                      | System.           | Readings   |                    |                 |   | ly Maintenand  | adiya sa ang sa manang sa |  |
| Hour Meter Readi     | ng (hrs)          |  | <u> </u>           |                 |   | e operation in a   | ir                        |  |
| Alarm Hours (in p    | anel digital dis  | splay)   |                    | compressor (    | yes/no)   |  |                           |  |
| Air stripper vacuu   | m (in H2O)        |  | <u> </u>           | Manually dra    | in water in ai  | r compressor ta  | ink (yes/no)              |  |
| Pressure on Carbo    |                   |  |                    |                 |   |  |                           |  |
| Storage tank oil le  |                   | duct)  | ft/ ft             | 4               |   | ~  |                           |  |
| Pressure on filter h |                   |  |                    | 1               | ripper (yes/no  |  |                           |  |
| Air stripper influe  |                   |  |                    |                 | air compress  |  | 05/00                     |  |
| Air stripper influe  |                   |  |                    |                 |   | dge buildup (v   | 5/1107                    |  |
| Air stripper efflue  |                   |  |                    |                 | tention pond  | the second s   | (11/m)                    |  |
| Air stripper efflue  | nt flow rate (g   | al/min)  |                    | Air compress    |   | alve operating   |                           |  |
| Air Samples          | -SVE INF          | AS EFF   | Total lnf          | Mid 1           | Mid 2   | Total Eff  |                           | A Discharge  |
| Analysis             | TPHg. BTEX        | TPHE BTEX  | WHAT C             | KTPHg. BTEX     | TPHg. BTEX  |  |                           | mit No.  |
| Sample Time          |                   | violatian  |                    | Energy K        | IONI  | <u>44</u>  |                           | 9648   |
| Water Samples        | Total Inf         | Post AS  | Mid                |                 | al Eff  |  | -                         | ounty Metro  |
| Analysis             | TPHg&d. BTEX      | TPHg&d. BTEX   | TPHg. BTEX         | TPHg&c          | BTEX. PH  |  |                           | e Permit No  |
| Sample Time          |                   | ·  |                    |                 |   | A REAL PROPERTY OF THE PARTY OF | 4                         | 057-01   |
|                      | ts (activities co | onducted chan  | ges to system, etc | ):              |   |  |                           |  |

SITE OBSERVATION REPORT 3485 File No. Project: Project No. Contractor: COP Project No. Owner: Renton WA Date: Location: Stantec Page Raining  $\sim 54^{\circ}F$ at office L. Rawlins on-site Sign 7:25 CG on site MT and Put Q TText review HASP/Saf PPE, on - walked tank -50 ch Begin set farm and took 9:40 oking visit measurement of walls that were not done 5-4-09. Checked out at office, remove P.P.E. Called M.T and T.P. Leaving site. L. Rawlins Z. Rauli

SECOR PN: 01CP.03485.45

Date: </6/09

Time: 8:05

Inspected By: L. Raulins

|                      |  |  |  | Site Status  |                  |  |   |              |  |
|----------------------|--|--|--|--|------------------|--|---|--------------|--|
| Motor Control Cen    |  | r switch   |  | Hoses inspecte   | ed (yes/no):     | YES  | 0K  |              |  |
| status and that pane | els are closed                           |  | 7 (OK                                      | Comments:  |                  | /  | 104 · · · · · · · · · · · · · · · · · · · |              |  |
| Flow meters checke   | ed for operation                         | n and leaks  | Al link                                    | Tanks inspecte   | ed for leaks, bi | o-growth   |   |              |  |
|                      | e Marsadad                               |  | SVE  | System   |                  | e (hi ji se ji |   |              |  |
| Oper                 | ating on Arriv                           | al (Yes/No):   | VES  |  | Operatin         | ng on Departur   | re (Yes/No):                              | 495          |  |
| If No, what alarms   |  |  | - <i>qe</i> <sub>2</sub>                   |  | - <u> </u>       |  |   |              |  |
|                      | System R                                 | an description in the transmission of  |  |  | Quarterl         | y Maintenanc   | e Items                                   |              |  |
|                      | 344                                      | 53.3   | 17 7-51                                    | Add/Change c   | il in SVE blog   | uer (vector)   |   | OIC          |  |
| Hour Meter Readin    | ig (hrs)                                 | -71.8  | 12,225,1                                   | Maintain filter  |                  |  |   |              |  |
|                      | 7 07                                     | 8-6-08   | 106  |  |                  |  |   | OIC          |  |
| Influent Air Tempe   | erature                                  |  | 100  |  | witch in KO d    |  | anisti <u>n</u> antéan                    | YOK          |  |
|                      |  |  | 20   |  |                  | tly being extr   |   | •            |  |
| Total Vacuum Rea     | ding (in. H2O)                           | )  | 30   | Well   | Extracting       | Vacuum (in   | Delivery                                  | VOCs at      |  |
|                      |  |  | 210  |  | (air/water)      | H20)   | Pressure                                  | well (PHD)   |  |
| Total Flowrate (scf  | fm)                                      |  | <i><i><i>a</i><sup>1</sup><i>c</i></i></i> | RW-2   | 1/10             | DAD  |   |              |  |
|                      |  |  | 13   | RW-3<br>RW-7   |                  | FOR  | /   | 1            |  |
| SVE VOCs (PID)(      | ppm)                                     |  |  | LAJ-4  | (                | HECK   |   |              |  |
| Air stripper effluer |  | (nnm)  |  | LAI-4  |                  | P CCR  | 00  | LT           |  |
| Air sumpper ennuer   |  | (фрш)  |  | LAI-6  |                  |  |   |              |  |
| Influent total VOC   | (PID)(ppm)                               |  | 3.3  | LAI-7  |                  |  |   |              |  |
| minuent total + ee   | (1 12)(ppiii)                            |  | 1  | LAI-8  |                  |  |   |              |  |
| Effluent total VOC   | Cs (PID)(ppm)                            |  | 2.4  | LAI-9  |                  |  |   |              |  |
|                      | an a |  | 5.1 / 4.8                                  | HW-1E  |                  |  | ļ   |              |  |
| BTWC1, BTWC2         |  |  | 5.1 4.8                                    | HW-1W  |                  |  |   |              |  |
|                      |  |  | Water Tre                                  | atment Syster  | D                |  |   |              |  |
| Ope                  | rating on Arriv                          | val (Yes/No):  | No   |  | Operat           | ing on Departi   | ure (Yes/No)                              | No           |  |
| If No, what alarm    | s shut system (                          | down: do   | in for                                     | Comor  | PECOr            | repair   | $\sim$                                    |              |  |
| II I (0, what alarm  |  | Readings   |  | Compr  | Monthl           | y Maimenan   | ce Items                                  | 84 B 7       |  |
| Hour Meter Readi     | ng (hrs)                                 |  |  | Check pressu   | re relief valve  | operation in a   | ár .                                      |              |  |
| Alarm Hours (in p    |  | splay)   |  | compressor (   | ves/no)          |  |   |              |  |
| Air stripper vacuu   |  |  |  | Manually dra   | in water in ait  | · compressor ta  | ank (ves/no)                              |              |  |
| Pressure on Carbo    | n vessel (psi)                           |  |  | intumatiny are   |                  |  |   |              |  |
| Storage tank oil le  | vel (water/prod                          | duct)  | ft ft                                      | _  |                  |  |   |              |  |
| Pressure on filter h |  |  |  | Clean Air Stripper (ves/no)<br>Change oil in air-compressor (ves/no) |                  |  |   |              |  |
| Air stripper influe  |  |  |  | Change oil if  | air compress     | or (ves/no)  | onino)                                    |              |  |
| Air stripper influe  |  |  |  |  |                  | ipe buildup (v   | 05/1103                                   |              |  |
| Air stripper efflue  |  |  |  |  | tention pond (   | alve operating   | (v/n)                                     | 4            |  |
| Air stripper efflue  |  |  |  |  |                  |  |   |              |  |
| Air Samples          | SVETHE                                   | AS EFF   | Total Inf                                  | Mid 1  | Mid 2            | Total Eff  |   | A Discharge  |  |
| Analysis             | TPHg. BTEX                               | TPHE BTEN  | TPHE. BTEX                                 | TPHg. BTEX   | TPH2. BTEX       | TPHC. BTEX   | ;   | mit No.      |  |
| Sample Time          |  | Sector and the sector s |  |  | 1                |  |   | 9648         |  |
| Water Samples-       | Total Inf                                | Post AS  | Mid  |  | al Eff           |  |   | ounty Metro  |  |
| Analysis             | TPHg&d. BTEX                             | TPHg&d. BTEX   | TPHg. BTEX                                 | ТРНд&с   | I, BTEX, PH      |  |   | ge Permit No |  |
| Sample Time          |  |  |  |  |                  |  | 4   | 057-01       |  |
| General Commen       | ts (activities co                        | onducted chan  | ges to system. etc                         | ):   |                  |  |   |              |  |

SITE OBSERVATION REPORT 3485 File No. Project: Project No. Contractor: COP Project No. MAY 12,2009 Owner: RENTON WA Date: Stantec Location: of / 1 Page Mostly Cloudy ~ 56°FI L Rawlins on-site Text M.T. T.P. and CG. Sign in at office Discuss some spreadsheets 11:14 for our emission the site needs Park at system put on PPE, review HASP/safety. Porpose: Vapor check and system readings. 11.50 Called P.M. Rick Fetterly to inform of conversation/ needs of site personnel. Calibrate PID set up equipment and begin. 12:15 Put away equipment, cleaned up site and 14:00 relabeled some hoses. On closer inspection several hoses on system could use replacement Hose entering and leaving carbon #1 on Vapon side Well Inf on Was, Photos taken for P.M. Finished walking tank areq , LAI-9 hose is (sve) 14:20 cracking more. Water Inf from wells where flex have connects to PVC (coupler Ireducer ferme) has seperated, too stiff with water hose inside to manipulate into place will need to schedule a second person for short period of time. Photo documented all mentioned hoses Called D.M. Signed out at office 14:30 Removing delineators and PPE Text M.T. TP and CG off site L. Rawlins & Par Nege N "Actoria the Rain"

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| SECOR | PN: | 01 | CP | .034 | 85. | 45 |
|-------|-----|----|----|------|-----|----|
|       |     |    |    |      |     |    |

| Date: 5/12/09  | Time: 12 15       | Inspected By: L Pawling   |
|--|-------------------|---|
|  | Conoral           | Site Status   |
| Motor Control Center checked for switch  | YES               |   |
| status and that panels are closed  | OIC               | Hoses Inspected (yes/no): YES<br>Comments: ON CARBON (VAPOR) LOOKING WORN           |
|  | WAS EFF           |   |
| Flow meters checked for operation and leaks  | LAAK              | Tanks inspected for leaks, bio-growth   |
|  | T                 | System  |
| Operating on Arrival (Yes/No):   | YES               | Operating on Departure (Yes/No): YES  |
| If No, what alarms shut system down:   |                   |   |
| System Readings  |                   | Quarterly Maintenance Items   |
| Hour Meter Reading (hts) 3601.9  | 12,373.7          | Add/Change oil in SVE blower (yes/no) 100 /0x                                       |
| Hour Meter Reading (hrs) $3601.9$<br>+ $\begin{bmatrix} 8771.8\\ 8-6-08 \end{bmatrix}$ | <u> </u>          | Maintain filter in KO Drum (yes/no) $\mathcal{N}\mathcal{D}/\mathcal{D}\mathcal{K}$ |
| Influent Air Temperature   | 100               | Check Float Switch in KO drum   |
|  |                   | Wells currently being extracted from  |
| Total Vacuum Reading (in. H2O)   | 30                | Extracting Vacuum (in Delivery VOCs at  |
|  |                   | Well (air/water) H20) Pressure well (PID)   |
| Total Flowrate (scfm)  | 210               | RW-2 / 24   |
|  | ~ ~               | RW-3  |
| SVE VOCs (PID)(ppm)  | 7.3               | RW-7  |
|  | -                 | $\begin{array}{c c c c c c c c c c c c c c c c c c c $                              |
| Air stripper effluent VOCs (PID)(ppm)  |                   | LAI-5 20  |
| Influent total VOCs (PID)(ppm)   | 1.4               |   |
|  | 1                 | LAI-8 25 +420 pump et   |
| Effluent total VOCs (PID)(ppm)   | 1.8               | LAI-9<br>LAI-9<br>HW-1E   |
|  | 4.3/14.8          |   |
| BTWC1, BTWC2   |                   | HW-1W / /   |
|  | Water Tre         | eatment System  |
| Operating on Arrival (Yes/No):   | NO                | Operating on Departure (Yes/No): NO   |
| · · · · · · · · · · · · · · · · · · ·  |                   | OTOR FOR COMPRESSOR   |
| If No, what alarms shut system down: W.<br>System Readings                             | - Thole 3         | Monthly Maintenance Items   |
|  |                   |   |
| Hour Meter Reading (hrs)   |                   | Check pressure relief valve operation in air  |
| Alarm Hours (in panel digital display)<br>Air stripper vacuum (in H2O)                 |                   | compressor (yes/no)   |
|  |                   | Manually drain water in air compressor tank (yes/no)                                |
| Pressure on Carbon vessel (psi)<br>Storage tank oil level (water/product)              | ft/ ft            |   |
| Pressure on filter housing (psi)   |                   | Clean Air Stripper (yes/no)   |
| Air stripper influent flow meter (gal)   |                   | Change oil in air compressor (ves/no)   |
| Air stripper influent flow rate (gal/min)  |                   | Check settling tank for sludge buildup (yes/no)                                     |
| Air stripper effluent flow meter (gal)   |                   | Product in retention pond (yes/no)  |
| Air stripper effluent flow rate (gal/min)  |                   | Air compressor selonoid valve operating (v/n)                                       |
| Air Samples SVE INF AS EFF   | Total Inf         | Mid 1 Mid 2 Total Eff PSCAA Discharge   |
| Analysis TPHg. BTEX TPHg. BTEX   | TPHg. BTEX        | TPHg, BTEX TPHg, BTEX Permit No.  |
| Sample Time  |                   | 9648  |
| Water Samples Total Inf Post AS  | Mid               | Total Eff King County Metro   |
| Analysis TPHg&d. BTEX TPHg&d. BTEX   | TPHg. BTEX        | TPHg&d. BTEX. PH Discharge Permit No.<br>4057-01                                    |
| Sample Time  | and to guatant at |   |
| General Comments (activities conducted chan  |                   | ).  |
| · PHOTOS OF HOSES  |                   | $L = i \partial P / V \partial C^{2}$   |
| Kanafler all weather tank  | · ·               |   |
| · TANK Farm walked   | ,                 | VE of except note @ LAI - 9<br>PVC reduced is off need to d                         |
| WTS fley hose  | connect.          | stiff whaten hose inside need 2 person  |

sump etuck VAC SIDE ACKS WIDENI

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SITE OBSERVATION REPORT 3485 File No. Project: Project No. Contractor: COP Project No. Owner: Date: MAY 15, 2009 RENTON, WA Stantec Location: . Page 9:00 Arrived on-site L. Rawlins talked to T. Parise to inform Signed in at office, talked with operator to set see about help with carbon tanks. Set up for Tuesday May 19. He is the only person onsite 9:35 Fot on P.P.E. review HASP and safety. 10:00 Set up equipment and begin sampling for vapor check. 10:30 Completed vapor check Will finish packing up equipment, sign out, pot away defineation and Call M. Tolley. Sign out at office. 10:45 L. Rawlins offsite 2. Rawlins J. Pahi 81 en. 115 181 15 355

ce.

Concert minps remeen reme Remediation System Operation Log 2423 Lind Ave, Renton WA

9:40

Time:

SECOR PN: 01CP.03485.45

Date: 5-15-09

Inspected By: L. Rawlins

|   |                     | General                                     | Site Status  |   |  |   |   |
|---|---------------------|---|--|---|--|---|---|
| Motor Control Center checked for switc<br>status and that panels are closed   | ch                  | YES/OK                                      | Hoses Inspect<br>Comments:   | ed (yes/no):  | 425/59<br>5  | -12-09  | TES   |
| Flow meters checked for operation and   | leaks               | EFF LEAK                                    | Tanks inspect  | ed for leaks, b   | io-growth  |   | Y85   |
|   | Kinese in d         | SVE   | System   |   |  |   |   |
| Operating on Arrival (Ye  | s/No):              | YES   |  | Operati   | ng on Departur   | e (Yes/No):   | YES   |
| If No, what alarms shut system down:  |                     |   |  |   |  |   | l   |
| System Readin   | igs                 |   |  | Quarterl  | y Maintenanc   | e Items   |   |
|   |                     | 12,443.1                                    | Add/Change   | oil in SVE blo <sup>.</sup>   | wer (ves/no)   |   | NO  |
| Hour Meter Reading (hrs) $3671$ .<br>+ $5771$   | .81                 | •   |  | r in KO Drum  |  |   | NO  |
| · · ·   | 08-1                | 110°F                                       | L  | Switch in KO d  |  |   | NO  |
| Influent Air Temperature  |                     |   | Check Tioar  |   | tly being extra  | ected from  |   |
| Total Vacuum Reading (in. H2O)  |                     | 30  | Well   | Extracting  | Vacuum (in   | Delivery  | VOCs at<br>well (PID)                       |
| Total Planurate (sofm)  |                     | 210   | RW-2   | (air/water)   | H20)   | Pressure  |   |
| Total Flowrate (scfm)   |                     |   | RW-2<br>RW-3   | 110   | RQ   |   |   |
| SVE VOCs (PID)(ppm)   |                     | 6.8   | RW-7   | VAP   | DIC  |   |   |
|   | 1                   | NOT   | LAI-4  |   | ngry   |   |   |
| Air stripper effluent VOCs (PID)(ppm)   |                     | OPERATING                                   | LAI-5  | C   | HELL   |   |   |
| Influent total VOCs (PID)(ppm)  |                     | 2.2   | LAI-6<br>LAI-7   |   |  | TSIT  |   |
| initident total vocs (11D)(ppin)  |                     |   | LAI-8  |   | V  |   |   |
| Effluent total VOCs (PID)(ppm)  |                     | 2.5   | LAI-9  |   | $\Delta \lambda$   | CAR   | EAA)  |
|   |                     | 4.5 \$ 5.6                                  | HW-1E<br>HW-1W   |   | UN   | CAR   |   |
| IBTWC1, BTWC2   |                     | 1 3.0                                       | <u>Hw-Iw</u>   |   |  |   |   |
|   |                     | Water Tre                                   | atment Syster  | m   |  |   |   |
|   |                     | 60V   |  | Onerat  | ing on De <del>part</del> u  | re (Yes/No):  | 110   |
| Operating on Arrival (Ye  | es/No):             |   |  |   |  |   | 1,00  |
| Operating on Arrival (Ye  |                     |   | WAITI  |   | MPRE   |   | REPAIL                                      |
|   | 1                   |   | WAITI AW   | NG CO   |  | SSOR  | REPAIL                                      |
| If No, what alarms shut system down:<br>System Readir   | 1                   |   |  | NG CC<br>Monthl   | MPRE   | S_SOR<br>eItems   | REPAIL                                      |
| If No, what alarms shut system down:<br>System Readir   | 1                   |   |  | Nん C (<br>Monthl<br>are relief valve  | MPRE.  | S_SOR<br>eItems   | REPAIL                                      |
| If No, what alarms shut system down:<br>System Readir<br>Hour Meter Reading (hrs)<br>Alarm Hours (in panel digital display)   | 1                   |   | Check pressu<br>compressor (   | Nん CO<br>Monthl<br>are relief valve<br>yes/no)  | MPRE<br>y Maintenanc<br>operation in ai  | SSOR<br>e Items<br>r  | REPAIL                                      |
| If No, what alarms shut system down:<br>System Readir<br>Hour Meter Reading (hrs)<br>Alarm Hours (in panel digital display)<br>Air stripper vacuum (in H2O)   | 1                   |   | Check pressu<br>compressor (   | Nん CO<br>Monthl<br>are relief valve<br>yes/no)  | MPRE.  | SSOR<br>e Items<br>r  | REPAIL                                      |
| If No, what alarms shut system down:<br>System Readin<br>Hour Meter Reading (hrs)<br>Alarm Hours (in panel digital display)<br>Air stripper vacuum (in H2O)<br>Pressure on Carbon vessel (psi)<br>Storage tank oil level (water/product)  | 1                   |   | Check pressu<br>compressor (<br>Manually dra   | NG CO<br>Monthl<br>are relief valve<br>yes/no)<br>ain water in air  | MPRE:<br>y Maintenanc<br>operation in ai<br>compressor tai   | SSOR<br>e Items<br>r  | REPAIL                                      |
| If No, what alarms shut system down:<br>System Readin<br>Hour Meter Reading (hrs)<br>Alarm Hours (in panel digital display)<br>Air stripper vacuum (in H2O)<br>Pressure on Carbon vessel (psi)<br>Storage tank oil level (water/product)<br>Pressure on filter housing (psi)  | 1                   | A Cruoc                                     | Check pressu<br>compressor (<br>Manually dra<br>Clean Air Str  | NG CO<br>Monthl<br>are relief valve<br>yes/no)<br>ain water in air<br>ripper (yes/no)   | MPRE:<br>y Maintenanc<br>operation in ai<br>compressor tai   | SSOR<br>e Items<br>r  | REPAIL                                      |
| If No, what alarms shut system down:<br>System Readin<br>Hour Meter Reading (hrs)<br>Alarm Hours (in panel digital display)<br>Air stripper vacuum (in H2O)<br>Pressure on Carbon vessel (psi)<br>Storage tank oil level (water/product)<br>Pressure on filter housing (psi)<br>Air stripper influent flow meter (gal)  | ngs                 | A Cruoc                                     | Check pressu<br>compressor (<br>Manually dra<br>Clean Air Stu<br>Change oil in   | NG CO<br>Monthl<br>ire relief valve<br>yes/no)<br>ain water in air<br>ripper (yes/no)<br>a air compresso  | MPRE<br>y Maintenance<br>operation in ai<br>compressor tai<br>pr (ves/no)  | S_O}<br>e Items<br>r<br>nk (yes/no)   | REPAIL                                      |
| If No, what alarms shut system down:<br>System Readin<br>Hour Meter Reading (hrs)<br>Alarm Hours (in panel digital display)<br>Air stripper vacuum (in H2O)<br>Pressure on Carbon vessel (psi)<br>Storage tank oil level (water/product)<br>Pressure on filter housing (psi)<br>Air stripper influent flow meter (gal)<br>Air stripper influent flow rate (gal/min)   | ngs                 | A Cruoc                                     | Check pressu<br>compressor (<br>Manually dra<br>Clean Air Stu<br>Change oil in<br>Check settlin  | NG CO<br>Monthl<br>rre relief valve<br>yes/no)<br>ain water in air<br>ripper (ves/no)<br>a air compresso<br>g tank for slud   | y Maintenance<br>operation in ai<br>compressor tai<br>or (ves/no)<br>lge buildup (ve   | S_O}<br>e Items<br>r<br>nk (yes/no)   | REPAIL                                      |
| If No, what alarms shut system down:<br>System Readin<br>Hour Meter Reading (hrs)<br>Alarm Hours (in panel digital display)<br>Air stripper vacuum (in H2O)<br>Pressure on Carbon vessel (psi)<br>Storage tank oil level (water/product)<br>Pressure on filter housing (psi)<br>Air stripper influent flow meter (gal)<br>Air stripper influent flow meter (gal)<br>Air stripper effluent flow meter (gal)  | )                   | A Cruoc                                     | Check pressu<br>compressor (<br>Manually dra<br>Clean Air Stu<br>Change oil in<br>Check settlin<br>Product in re   | NG CO<br>Monthl<br>ure relief valve<br>yes/no)<br>ain water in air<br>ripper (yes/no)<br>a air compresso<br>g tank for slud<br>tention pond (j  | MPRE<br>y Maintenanc<br>operation in ai<br>compressor tai<br>or (ves/no)<br>lige buildup (ve<br>yes/no)                          | S_OJ2<br>e Items<br>r<br>nk (yes/no)  | REPAIL                                      |
| If No, what alarms shut system down:<br>System Readin<br>Hour Meter Reading (hrs)<br>Alarm Hours (in panel digital display)<br>Air stripper vacuum (in H2O)<br>Pressure on Carbon vessel (psi)<br>Storage tank oil level (water/product)<br>Pressure on filter housing (psi)<br>Air stripper influent flow meter (gal)<br>Air stripper effluent flow meter (gal)<br>Air stripper effluent flow meter (gal)<br>Air stripper effluent flow meter (gal)  | )                   | A UWO A                                     | Check pressu<br>compressor (<br>Manually dra<br>Clean Air Stu<br>Change oil in<br>Check settlin<br>Product in re<br>Air compress                               | NG CO<br>Monthl<br>are relief valve<br>yes/no)<br>ain water in air<br>ripper (yes/no)<br>a air compresso<br>g tank for slud<br>tention pond (g<br>sor selonoid va                                   | y Maintenance<br>operation in ai<br>compressor tau<br>or (ves/no)<br>lige buildup (ve<br>ves/no)<br>live operating (             | s/no)   |   |
| If No, what alarms shut system down:         System Readin         Hour Meter Reading (hrs)         Alarm Hours (in panel digital display)         Air stripper vacuum (in H2O)         Pressure on Carbon vessel (psi)         Storage tank oil level (water/product)         Pressure on filter housing (psi)         Air stripper influent flow meter (gal)         Air stripper effluent flow meter (gal)         Air stripper effluent flow rate (gal/min)         Air stripper effluent flow rate (gal/min)         Air stripper SVE INF  | )<br>EFF            | DOWN A                                      | Check pressu<br>compressor (<br>Manually dra<br>Clean Air Str<br>Change oil in<br>Check settlin<br>Product in re<br>Air compress<br>Mid 1                      | NG CO<br>Monthl<br>are relief valve<br>yes/no)<br>ain water in air<br>ripper (yes/no)<br>a air compresso<br>g tank for slud<br>tention pond (g<br>sor selonoid va<br>Mid 2                          | y Maintenauc<br>operation in ai<br>compressor tai<br>or (ves/no)<br>lige buildup (ve<br>ves/no)<br>ulve operating (<br>Total Eff | s/no)   | Discharge                                   |
| If No, what alarms shut system down:<br>System Readin<br>Hour Meter Reading (hrs)<br>Alarm Hours (in panel digital display)<br>Air stripper vacuum (in H2O)<br>Pressure on Carbon vessel (psi)<br>Storage tank oil level (water/product)<br>Pressure on filter housing (psi)<br>Air stripper influent flow meter (gal)<br>Air stripper influent flow meter (gal)<br>Air stripper effluent flow meter (gal)<br>Air stripper effluent flow rate (gal/min)<br>Air stripper effluent flow rate (gal/min)<br>Air stripper effluent flow rate (gal/min)<br>Air stripper SVE INF AS<br>Analysis TPHg. BTEX TPHg  | )                   | A UWO A                                     | Check pressu<br>compressor (<br>Manually dra<br>Clean Air Stu<br>Change oil in<br>Check settlin<br>Product in re<br>Air compress                               | NG CO<br>Monthl<br>are relief valve<br>yes/no)<br>ain water in air<br>ripper (yes/no)<br>a air compresso<br>g tank for slud<br>tention pond (g<br>sor selonoid va                                   | y Maintenance<br>operation in ai<br>compressor tau<br>or (ves/no)<br>lige buildup (ve<br>ves/no)<br>live operating (             | S_OJ2<br>e Items<br>r<br>nk (yes/no)<br>s/no)<br>y/n)<br>PSCAA<br>Perr                              | Discharge<br>nít No.                        |
| If No, what alarms shut system down:<br>System Readin<br>Hour Meter Reading (hrs)<br>Alarm Hours (in panel digital display)<br>Air stripper vacuum (in H2O)<br>Pressure on Carbon vessel (psi)<br>Storage tank oil level (water/product)<br>Pressure on filter housing (psi)<br>Air stripper influent flow meter (gal)<br>Air stripper effluent flow rate (gal/min)<br>Air stripper effluent flow rate (gal/min)<br>Air stripper effluent flow rate (gal/min)<br>Air Samples<br>SVE INF<br>Sample Time  | )<br>EFF<br>2. BTEX | Total Inf<br>TPHg. BTEX                     | Check pressu<br>compressor (<br>Manually dra<br>Clean Air Str<br>Change oil in<br>Check settlin<br>Product in re<br>Air compress<br>Mid 1<br>TPHg. BTEX        | NG CO<br>Monthl<br>re relief valve<br>yes/no)<br>ain water in air<br>ripper (yes/no)<br>a air compresso<br>g tank for slud<br>tention pond (y<br>sor selonoid va<br>Mid 2<br>TPHg, BTEX             | y Maintenauc<br>operation in ai<br>compressor tai<br>or (ves/no)<br>lige buildup (ve<br>ves/no)<br>ulve operating (<br>Total Eff | s S S S S S S S S S S S S S S S S S S S   | Discharge<br>nit No.<br>2648                |
| If No, what alarms shut system down:<br>System Readin<br>Hour Meter Reading (hrs)<br>Alarm Hours (in panel digital display)<br>Air stripper vacuum (in H2O)<br>Pressure on Carbon vessel (psi)<br>Storage tank oil level (water/product)<br>Pressure on filter housing (psi)<br>Air stripper influent flow meter (gal)<br>Air stripper effluent flow meter (gal)<br>Air stripper effluent flow meter (gal)<br>Air stripper effluent flow rate (gal/min)<br>Air stripper effluent flow rate (gal/min)<br>Mir Samples<br>SVE INF AS<br>Analysis<br>TPHg. BTEX TPHg<br>Sample Time<br>Water Samples<br>Total Inf<br>Pos | ngs                 | ft/ ft<br>ft/ ft<br>Total Inf<br>TPHg. BTEX | Check pressu<br>compressor (<br>Manually dra<br>Clean Air Stu<br>Change oil in<br>Check settlin<br>Product in re<br>Air compress<br>Mid 1<br>TPHg. BTEX<br>Tot | NG CO<br>Monthl<br>are relief valve<br>yes/no)<br>ain water in air<br>ripper (yes/no)<br>a air compresso<br>ig tank for slud<br>tention pond (g<br>sor selonoid va<br>Mid 2<br>TPHg. BTEX<br>al Eff | y Maintenauc<br>operation in ai<br>compressor tai<br>or (ves/no)<br>lige buildup (ve<br>ves/no)<br>ulve operating (<br>Total Eff | S S A<br>e Items<br>r<br>nk (yes/no)<br>y/n)<br>y/n)<br>PSCAA<br>Perr<br>G<br>King Co               | Discharge<br>nit No.<br>6648<br>ounty Metro |
| If No, what alarms shut system down:<br>System Readin<br>Hour Meter Reading (hrs)<br>Alarm Hours (in panel digital display)<br>Air stripper vacuum (in H2O)<br>Pressure on Carbon vessel (psi)<br>Storage tank oil level (water/product)<br>Pressure on filter housing (psi)<br>Air stripper influent flow meter (gal)<br>Air stripper effluent flow meter (gal)<br>Air stripper effluent flow meter (gal)<br>Air stripper effluent flow rate (gal/min)<br>Air Samples<br>SVE INF AS<br>Analysis<br>TPHg. BTEX TPHg<br>Sample Time<br>Water Samples<br>Total Inf Pos   | )<br>EFF<br>2. BTEX | Total Inf<br>TPHg. BTEX                     | Check pressu<br>compressor (<br>Manually dra<br>Clean Air Stu<br>Change oil in<br>Check settlin<br>Product in re<br>Air compress<br>Mid 1<br>TPHg. BTEX<br>Tot | NG CO<br>Monthl<br>re relief valve<br>yes/no)<br>ain water in air<br>ripper (yes/no)<br>a air compresso<br>g tank for slud<br>tention pond (y<br>sor selonoid va<br>Mid 2<br>TPHg, BTEX             | y Maintenauc<br>operation in ai<br>compressor tai<br>or (ves/no)<br>lige buildup (ve<br>ves/no)<br>ulve operating (<br>Total Eff | S_OJ2<br>e Items<br>r<br>nk (yes/no)<br>s/no)<br>y/n)<br>PSCAA<br>Perr<br>g<br>King Co<br>Discharge | Discharge<br>nit No.<br>2648                |

Renton OM Form (5-20-08).xls

SITE OBSERVATION REPORT 3485 Project: File No. Contractor: Project No. COP Owner: Project No. Date: MAY 19, 2009 Renton, WA Stantec Location: of Page Mostly cloudy - 560F L. Rawlins onsite Text M.T and T.P. sign at office Put on PPE review Hase / safety 10:15 Purpose: Carbon change-out. Hoses disconnected after system was shut down. While waiting for forklift walking 11:00 back to check on connections needed. Completed carbon change out 12:05 New ressel in position 3 obluesselpthree in position 2 old vessel 2 in position 1 Calibrate PIP and take system and vapor 12:10 readings. Completed system reading and vapor check Took tank farm wells vad readings. 12:50 Got hose that contains water hose reconnected to reducer ferries, may need to go in forther, will keep a check each visit till another staff member can help to push further into position. Packing up equipment, sign out and remove 12:55 P.P.ZJ 12:00 OFF Site L. Rawlins J.P.I

#### ConocoPhillips - Renton Terminal Remediation System Operation Log 2423 Lind Ave, Renton WA

SECOR PN: 01CP.03485.45

Date: 5-19-09

12:00

Time:

Inspected By: L-Rawlins

|   |   |  |  | Site Status                                     |   |  |                       |               |
|---|---|--|--|---|---|--|-----------------------|---------------|
| viotor Control Centratus and that pane      |   | r switch   | Y25/01                                       | Hoses Inspecte<br>Comments:                     | d (yes/no):   | Y25/5  | ee no                 | tes 5/1       |
| Flow meters check                           | ed for operatio   | on and leaks   | see previous                                 | Tanks inspecte                                  | d for leaks, bi   | o-growth   |                       |               |
|   |   |  | SVE  | System  |   |  |                       |               |
| One   | rating on Arriv   | val (Ver/No))  | YES  |   | Operatir  | ng on Departur   | e (Yes/No):           | YES           |
| · · ·                                       |   | and the second |  |   | 0,000000  |  |                       |               |
| f No, what alarms                           |   | Shahayan Shahayan a shahayan a shahayan a  |  |   | Owenterly   | Maintonana   | o Itome               |               |
|   | System I  |  |  |   | Quarteri  | y Maintenanc   | e mems                | 1.10 /11      |
| Iour Meter Readin                           | ng (hrs) 37   | 168.5  |  | Add/Change o                                    | il in SVE blov  | wer (yes/no)   |                       | NO / OK       |
|   | + 87  | 271.8  |  | Maintain filter                                 | in KO Drum  | (yes/no)   |                       | NO/OK         |
| nfluent Air Temp                            | erature 2 8   | 1  | 120  | Check Float S                                   | witch in KO d   | rum  |                       | NO 495/       |
| influent rin remp.                          |   |  | ·  |   | Wells current   | tly being extra  | acted from            | · · · · ·     |
| fotal Vacuum Rea                            | ading (in. H2O  | )  | 30   |   | Extracting  | Vacuum (in   | Delivery              | VOCs at       |
|   |   |  |  | Well  | (air/water)   | H20)   | Pressure              | well (PID)    |
| Fotal Flowrate (sc                          | fm)   |  | 210  | RW-2  | /   | 25   |                       | 1 7           |
|   |   |  | in C   | RW-3  | /   |  | $ \longrightarrow f $ | $\perp$       |
| SVE VOCs (PID)                              | (ppm)   |  | 10.8   | RW-7  | / =   |  | = 1                   | T             |
|   |   |  | NOT  | LAI-4   | /   | -31-   |                       | <u> </u>      |
| Air stripper effluer                        | nt VOCs (PID)   | )(ppm)   | OPERATING                                    | LAI-5   |   | 22   | /                     |               |
|   |   |  | 1.4  | LAI-6<br>LAI-7                                  |   | 20   | <i> </i>              | +/            |
| nfluent total VOC                           | $_{\rm S}(P1D)(ppm)$  |  |  | LAI-7<br>LAI-8                                  |   | 20   |                       | 1             |
| Effluent total VOC                          | "s (PID)(nnm)   |  | 0.0  | LAI-9   |   | 28   | 1                     | 1/            |
|   |   |  | 11011.0                                      | HW-1E   |   |  |                       | 1             |
| BTWC1, BTWC2                                |   |  | 4.0/0.7                                      | HW-1W   | 1   |  | 1                     | 1             |
|   |   |  | Water Tre                                    | atment Systen                                   | 1   |  |                       |               |
| Ope   | erating on Arri   | val (Yes/No):  | .00  |   |   | ing on Departu   | ure (Yes/No)          | NO            |
| If No, what alarm                           |   |  |  | IDUS  |   |  |                       |               |
|   |   | Readings   | <u>/// /////////////////////////////////</u> | 100-  | Monthl  | y Maintenanc   | e Items               |               |
|   |   |  | I  |   | T. C. L.  |  |                       |               |
| Hour Meter Readi                            |   | 1  |  | -   |   | operation in a   | IT                    |               |
| Alarm Hours (in p                           | and the second se | splay)   |  | compressor (y                                   |   |  |                       |               |
| Air stripper vacuu                          |   | . <u></u>  | 1  | Manually dra                                    | in water in air   | compressor ta  | nk (yes/no)           |               |
| Pressure on Carbo                           |   | ·<br>•   | <u> </u>                                     |   |   |  |                       |               |
| Storage tank oil le                         |   | auct)  | ft/ ft                                       | Clean Air Str                                   | nner (vecino)   |  |                       |               |
| Pressure on filter l<br>Air stripper influe |   | (gal)  |  | Change oil in                                   |   | or (ves/no)  |                       |               |
| Air stripper influe                         |   |  |  |   |   | ge buildup (ye   | es/no)                | 1             |
| Air stripper efflue                         |   |  |  | Product in ret                                  | And the second se | and the second distance of the second s |                       |               |
| Air stripper efflue                         |   |  |  | Air compress                                    | or selonoid va  | lve operating  | (y/n)                 |               |
| Air Samples                                 | SVE INF   | AS EFF   | Total Inf                                    | Mid 1   | Mid 2   | Total Eff  | PSCA                  | A Discharge   |
| An alysis                                   | TPHE BTEX   | TPHg. BTEX   | TPHg. BTEX                                   | TPHE BTEX                                       | TPH2. BTEX  | TPHg. BTEX   | 1                     | mit No.       |
| Sample Time                                 | I THE DILA  |  |  | and the second state of the second state of the |   | 1  |                       | 9648          |
| Water Samples                               | Total Inf   | Post AS  | Mid  | Tota  | al Eff  |  | <br>King C            | ounty Metro   |
| Analysis                                    | TPHg&d. BTEX  | TPHg&d, BTEX   | TPHg. BTEX                                   |   | BTEX, PH  |  | -                     | ge Permit No. |
| Sample Time                                 |   |  | 7  |   |   |  |                       | 057-01        |
|   | ts (activities co   | onducted chan  | ges to system, etc                           | ):  |   |  |                       |               |
|   | ARBON   |  |  |   | CHANG   | 2D   |                       |               |
|   | - 10  | N9   |  | osition   | ζ   |  |                       |               |
|   |   |  | 3 into 2                                     | <u>~</u>  |   |  |                       |               |
|   |   |  | <u> </u>                                     | 1   |   |  |                       |               |

Renton OM Form (5-20-08).xls

9 SITE OBSERVATION REPORT 3485 8 Project: File No. Project No. Contractor: C D ( Owner: Project No. KENTON WA DateMA Stantec Location: 8 C SUNNY ć. 8:40 Porpos Rawlins sample Va on-sit san NPS A 5 Ó and 88. ρı 7 Projec lang ASP Ca 9:25 B <u>r</u> same 1**8** 10:20 amplete and reac  $\pm c$ ۲ d NECSE 20 ING 1 Pack equipment. 11:30 pretect  $( \cap$ Up take 044 100 remove. delineos nd sign out Wil drive 40 40 079 - 270 45  $\rho$ 8 L Rowlins 32 2 ۲ s ģi 1 1 攌 靋 2.3 Part and the house

### ConocoPhillips - Renton Terminal Remediation System Operation Log 2423 Lind Ave, Renton WA

SECOR PN: 01CP.03485.45

Date: 5-21-09

9150 Time:

Inspec

Inspected By: L. RAWLINS

| the second s  | and diversity and the first street  |   |   |                             |  |  | the process of the second   | ere, els concerner concerner |
|---|---|---|---|-----------------------------|--|--|---|------------------------------|
| Motor Control Ce<br>status and that par   |   | or switch   | YES   | Hoses Inspect<br>Comments:  | ed (yes/no):   | yes/0  | گرر   |                              |
| Flow meters check   |   | on and leaks  | SEE   | Tonko inanoot               | ed for leaks, bi   | io grouth  |   | AS NA<br>PRESSU              |
|   |   |   |   | System                      | ed for leaks, b  | io-giowiii<br>Adamada a a a a  | e una contra  | FRESSU.                      |
|   | na na sana na sana sa   |   |   |                             |  |  |   | to Electron                  |
|   | rating on Arriv   |   | YES   |                             | Operatu  | ng on Departur   | re (Yes/No):  | 425                          |
| If No, what alarm   | the contraction of the second of the  | where the first state of the first  | Angel ang                                     | Lista di stanca mandali kwa | Quantari   | y Maintenanc   | oltome  | valska provinska             |
|   | System 1  |   |   |                             | Quarteri   | ywamenane  | erteins   |                              |
| Hour Meter Readi  | ng (hrs) 🚬 🕄 🛠  | 312.9   | 1   | Add/Change                  | oil in SVE blov  | wer (yes/no)   |   | OK                           |
|   | +) 9,7  | +71.8   |   | Maintain filte              | r in KO Drum   | (yesno)  |   |                              |
| Influent Air Temp   |   | 6.00  | 125   | Check Float S               | Switch in KO d   | lrum   |   | NO                           |
| Influence zur Temp  | oracito   |   | <br>  |                             |  | tly being extra  | acted from  |                              |
| Total Vacuum Re   | ading (in. H2O  | )   | 30  | Well                        | Extracting   | Vacuum (in   | Delivery  | VOCs at                      |
| T-+-1 171+- (   | (free)  |   | 210   | RW-2                        | (air/water)  | H20)   | Pressure  | well (PID)                   |
| Total Flowrate (sc  | :шп)  |   |   | <u>RW-2</u><br>RW-3         |  |  |   |                              |
| SVE VOCs (PID)  | (nnm)   |   | 5.3   | RW-7                        |  |  |   |                              |
| <u>SVE VOCS(IID)</u>  | (ppiii)   |   | NOT   | LAI-4                       |  |  |   |                              |
| Air stripper efflue   | nt VOCs (PID)   | )(ppm)  | OFTRATING   | LAI-5                       |  |  | and Market Market   |                              |
|   |   | <u> </u>  | 2.0   | LAI-6                       |  | and a start of the |   |                              |
| Influent total VO   | Cs (PID)(ppm)   |   | 0 . محين  | LAI-7                       |  |  |   |                              |
|   |   |   | 1.7   | LAI-8<br>LAI-9              |  | a de contrata de la c  |   |                              |
| Effluent total VO   | Cs (P1D)(ppin)  |   | ~ ~ //  | HW-1E                       | Jacob Provide State  |  |   |                              |
|   |   |   | 9.9/2.3   |                             |  |  |   |                              |
| IBTWC1, BTWC2   |   |   |   | HW-IW                       |  | 1  |   | 1                            |
| BTWC1. BTWC2  |   |   | <u> </u>  |                             | p  |  |   | 1                            |
|   | rating on Arriv   | val (Yes/No):   | <u> </u>  | atment Syster               |  | l<br>ing on Departu  | re (Yes/No):  | NO                           |
| Оре   | erating on Arri   | .***  | Water Tre   | atment Syster               | Operati  | l<br>ing on Departu  | re (Yes/No):  | NO                           |
|   | erating on Arri   | .***  | Water Tre   | atment Syster               | Operati  | l<br>ing on Departu<br><b>y Maintenanc</b>   |   | NO                           |
| Ope<br>If No, what alarm  | erating on Arri<br>15 shut system (<br>System )   | down: Po  | Water Tre   | atment System               | Operati<br>FICTS<br>Monthl   | y Maintenanc   | eItems  | NO                           |
| Ope<br>If No, what alarm<br>Hour Meter Read   | erating on Arriv<br>is shut system (<br><b>System</b> )<br>ing (hrs)  | down: Þo<br>Readings  | Water Tre   | atment System               | Operati<br>Autor<br>Monthl<br>re relief valve  | ······································   | eItems  | NO                           |
| Ope<br>If No, what alarm<br>Hour Meter Read<br>Alarm Hours (in J  | erating on Arri<br>as shut system o<br><b>System</b> J<br>ing (hrs)<br>panel digital dis  | down: Þo<br>Readings  | Water Tre   | atment System               | Operati<br>HICTS<br>Monthly<br>re relief valve<br>yes/no)  | v Maintenanc   | e Items   | NO                           |
| Ope<br>If No, what alarm<br>Hour Meter Read<br>Alarm Hours (in p<br>Air stripper vacut  | erating on Arri-<br>as shut system (<br>System )<br>ing (hrs)<br>banel digital dis<br>um (in H2O)   | down: Þo<br>Readings  | Water Tre   | atment System               | Operati<br>HICTS<br>Monthly<br>re relief valve<br>yes/no)  | y Maintenanc   | e Items   | NO                           |
| Ope<br>If No, what alarm<br>Hour Meter Read<br>Alarm Hours (in p<br>Air stripper vacut<br>Pressure on Carbo   | erating on Arri<br>is shut system of<br>System of<br>ing (hrs)<br>banel digital dis<br>im (in H2O)<br>on vessel (psi)   | down: Do<br><b>Readings</b><br>splay)   | Water Tre<br>NO<br>WN AWART   | atment System               | Operati<br>HICTS<br>Monthly<br>re relief valve<br>yes/no)  | v Maintenanc   | e Items   | NO                           |
| Ope<br>If No, what alarm<br>Hour Meter Read<br>Alarm Hours (in J<br>Air stripper vacuu<br>Pressure on Carbo<br>Storage tank oil le  | erating on Arri-<br>is shut system of<br>System of<br>ing (hrs)<br>panel digital dis<br>im (in H2O)<br>pan vessel (psi)<br>evel (water/pro-   | down: Do<br><b>Readings</b><br>splay)   | Water Tre<br>NO<br>WN AWACT   | atment Syster               | Operati<br>HICTS<br>Monthly<br>re relief valve<br>yes/no)  | v Maintenanc   | e Items   | NO                           |
| Ope<br>If No, what alarm<br>Hour Meter Read<br>Alarm Hours (in J<br>Air stripper vacuu<br>Pressure on Carbo<br>Storage tank oil le<br>Pressure on filter  | erating on Arri-<br>is shut system of<br>System of<br>ing (hrs)<br>panel digital dis<br>im (in H2O)<br>pan vessel (psi)<br>evel (water/pro-<br>housing (psi)  | down: Do<br><b>Readings</b><br>splay)<br>duct)  | Water Tre<br>NO<br>WN AWART   | atment Syster               | Operati<br>Monthl<br>re relief valve<br>yes/no)  | y Maintenanc<br>operation in ai<br>compressor ta   | e Items   | NO                           |
| Ope<br>If No, what alarm<br>Hour Meter Read<br>Alarm Hours (in J<br>Air stripper vacuu<br>Pressure on Carbo<br>Storage tank oil le  | erating on Arri-<br>is shut system (<br>System )<br>ing (hrs)<br>panel digital dis<br>im (in H2O)<br>on vessel (psi)<br>evel (water/pro-<br>housing (psi)<br>ent flow meter (   | down: Do<br>Readings<br>splay)<br>duct)<br>(gal)  | Water Tre<br>NO<br>WN AWART   | atment Syster               | Operati<br>Monthl<br>re relief valve<br>yes/no)<br>in water in air<br>ipper (yes/no)<br>air compresso<br>g tank for slud   | v Maintenanc<br>operation in ai<br>compressor ta<br>or (yes/no)<br>ge buildup (ye  | r<br>nk (yes/no)  | NO                           |
| Ope<br>If No, what alarm<br>Hour Meter Read<br>Alarm Hours (in p<br>Air stripper vacuu<br>Pressure on Carbo<br>Storage tank oil le<br>Pressure on filter<br>Air stripper influe   | erating on Arri<br>Is shut system (<br>System )<br>ing (hrs)<br>panel digital dis<br>im (in H2O)<br>on vessel (psi)<br>evel (water/pro-<br>housing (psi)<br>on t flow meter (<br>int flow mate (ge)   | down: Do<br>Readings<br>splay)<br>duct)<br>(gal)<br>al/min)   | Water Tre<br>NO<br>WN AWART   | atment Syster               | Operati<br>Monthl<br>re relief valve<br>yes/no)<br>in water in air<br>ipper (yes/no)<br>air compressed<br>g tank for slud<br>tention pond (y   | y Maintenanc<br>operation in ai<br>compressor ta<br>or (yes/no)<br>ige buildup (ye<br>yes/no)  | e Items<br>r<br>nk (yes/no)<br>s/no)  | NO                           |
| Ope<br>If No, what alarm<br>Hour Meter Read<br>Alarm Hours (in J<br>Air stripper vacuu<br>Pressure on Carbo<br>Storage tank oil le<br>Pressure on filter<br>Air stripper influe<br>Air stripper influe  | erating on Arri-<br>ts shut system (<br>System )<br>ing (hrs)<br>banel digital dis<br>im (in H2O)<br>on vessel (psi)<br>evel (water/pro-<br>housing (psi)<br>ext flow meter (<br>int flow meter (   | down: Do<br>Readings<br>splay)<br>duct)<br>(gal)<br>(gal)   | Water Tre<br>NO<br>WN AWART   | atment Syster               | Operati<br>Monthl<br>re relief valve<br>yes/no)<br>in water in air<br>ipper (yes/no)<br>air compressed<br>g tank for slud<br>tention pond (y   | v Maintenanc<br>operation in ai<br>compressor ta<br>or (yes/no)<br>ge buildup (ye  | e Items<br>r<br>nk (yes/no)<br>s/no)  | N0                           |
| Ope<br>If No, what alarm<br>Hour Meter Read<br>Alarm Hours (in p<br>Air stripper vacuu<br>Pressure on Carbo<br>Storage tank oil le<br>Pressure on filter<br>Air stripper influe<br>Air stripper efflue  | erating on Arri-<br>ts shut system (<br>System )<br>ing (hrs)<br>banel digital dis<br>im (in H2O)<br>on vessel (psi)<br>evel (water/pro-<br>housing (psi)<br>ext flow meter (<br>int flow meter (   | down: Do<br>Readings<br>splay)<br>duct)<br>(gal)<br>al/min)<br>(gal)<br>al/min)                         | Water Tre<br>NO<br>WN AWART   | atment Syster               | Operati<br>Monthl<br>re relief valve<br>yes/no)<br>in water in air<br>ipper (yes/no)<br>air compressed<br>g tank for slud<br>tention pond (y   | y Maintenanc<br>operation in ai<br>compressor ta<br>or (yes/no)<br>ige buildup (ye<br>yes/no)  | e Items<br>r<br>nk (yes/no)<br>s/no)<br>y/n)                                  |                              |
| Ope<br>If No, what alarm<br>Hour Meter Read<br>Alarm Hours (in J<br>Air stripper vacut<br>Pressure on Carbo<br>Storage tank oil le<br>Pressure on filter<br>Air stripper influe<br>Air stripper influe<br>Air stripper efflue<br>Air stripper efflue  | erating on Arri-<br>ss shut system (<br>System )<br>ing (hrs)<br>banel digital dis<br>im (in H2O)<br>on vessel (psi)<br>evel (water/pro-<br>housing (psi)<br>evel (water/pro-<br>housing (psi)<br>evel (water/pro-<br>housing (psi)<br>ent flow meter (<br>int flow rate (gsi)<br>SVE INF   | down: Do<br>Readings<br>splay)<br>duct)<br>(gal)<br>al/min)<br>(gal)<br>al/min)<br>AS EFF               | Water Tre<br>NO<br>WN AWART   | atment Syster               | Operati<br>Monthl<br>re relief valve<br>yes/no)<br>in water in air<br>ipper (yes/no)<br>air compresso<br>g tank for slud<br>tention pond (yes/no)<br>air selonoid va                               | y Maintenanc<br>operation in ai<br>compressor tai<br>or (yes/no)<br>lge buildup (ye<br>yes/no)<br>ilve operating (   | e Items<br>r<br>nk (yes/no)<br>s/no)<br>y/n)<br>PSCAA                         | Discharge<br>nit No.         |
| Ope<br>If No, what alarm<br>Hour Meter Read<br>Alarm Hours (in p<br>Air stripper vacuu<br>Pressure on Carbo<br>Storage tank oil le<br>Pressure on filter<br>Air stripper influe<br>Air stripper influe<br>Air stripper efflue<br>Air stripper efflue<br>Air stripper efflue<br>Air stripper efflue<br>Air stripper efflue | erating on Arri-<br>s shut system of<br>System of<br>ing (hrs)<br>sanel digital dis<br>im (in H2O)<br>on vessel (psi)<br>evel (water/pro-<br>housing (psi)<br>evel (water/pro-<br>housing (psi)<br>ent flow meter (<br>int flow meter   | down: Do<br>Readings<br>splay)<br>duct)<br>(gal)<br>al/min)<br>(gal)<br>al/min)                         | Water Tre<br>DO<br>WW AWART   | atment Syster               | Operati<br>Monthl<br>re relief valve<br>yes/no)<br>in water in air<br>ipper (ves/no)<br>air compressed<br>g tank for slud<br>tention pond (y<br>or selonoid va<br>Mid 2                            | v Maintenanc<br>operation in ai<br>compressor ta<br>or (yes/no)<br>ge buildup (ye<br>yes/no)<br>live operating (<br>Total Eff  | r<br>nk (yes/no)<br>s/no)<br>y/n)<br>PSCAA<br>Perr                            | Discharge                    |
| Ope<br>If No, what alarm<br>Hour Meter Read<br>Alarm Hours (in J<br>Air stripper vacuu<br>Pressure on Carbo<br>Storage tank oil le<br>Pressure on filter<br>Air stripper influe<br>Air stripper influe<br>Air stripper efflue<br>Air stripper efflue<br>Air stripper efflue<br>Air Samples<br>Analysis<br>Sample Time     | erating on Arri-<br>s shut system i<br>System i<br>ing (hrs)<br>banel digital dis<br>im (in H2O)<br>on vessel (psi)<br>evel (water/pro-<br>housing (  | down: Do<br>Readings<br>splay)<br>duct)<br>(gal)<br>al/min)<br>(gal)<br>al/min)<br>AS EFF<br>TPHg. BTEX | Water Tre<br>DO<br>WALACT<br>ft/<br>ft/<br>ft/<br>ft/<br>ft/<br>ft/<br>ft/<br>ft/ | atment Syster               | Operati<br>Monthl<br>re relief valve<br>yes/no)<br>in water in air<br>ipper (ves/no)<br>air compresso<br>g tank for slud<br>tention pond (y<br>or selonoid va<br>Mid 2<br>TPHg, BTEX               | v Maintenanc<br>operation in ai<br>compressor tai<br>or (yes/no)<br>ge buildup (ye<br>yes/no)<br>live operating (<br>Total Eff<br>TPHg. BTEX   | e Items<br>r<br>nk (yes/no)<br>s/no)<br>y/n)<br>PSCAA<br>Perr<br>g            | Discharge<br>nit No.<br>1648 |
| Ope<br>If No, what alarm<br>Hour Meter Read<br>Alarm Hours (in p<br>Air stripper vacuu<br>Pressure on Carbo<br>Storage tank oil le<br>Pressure on filter<br>Air stripper influe<br>Air stripper influe<br>Air stripper efflue<br>Air stripper efflue<br>Air stripper efflue<br>Air stripper efflue<br>Air stripper efflue | erating on Arri-<br>ss shut system (<br>System )<br>ing (hrs)<br>banel digital dis<br>im (in H2O)<br>on vessel (psi)<br>evel (water/pro-<br>housing (psi)<br>evel (water (psi)<br>evel (water (psi)<br>evel (psi) | down: Do<br>Readings<br>splay)<br>duct)<br>(gal)<br>al/min)<br>(gal)<br>al/min)<br>AS EFF               | Water Tre<br>DO<br>WN AWART<br>ft/ #<br>Total Inf<br>TPHg. BTEX<br>9:55           | atment Syster               | Operati<br>Monthly<br>re relief valve<br>yes/no)<br>in water in air<br>ipper (yes/no)<br>air compresso<br>g tank for slud<br>tention pond (y<br>sor selonoid va<br>Mid 2<br>TPHg, BTEX<br>cj : H S | v Maintenanc<br>operation in ai<br>compressor tai<br>or (yes/no)<br>ge buildup (ye<br>yes/no)<br>live operating (<br>Total Eff<br>TPHg. BTEX   | e Items<br>r<br>nk (yes/no)<br>s/no)<br>y/n)<br>PSCAA<br>Perr<br>9<br>King Co | Discharge<br>nit No.         |

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THE LEADER IN ENVIRONMENTAL TESTING

425-420.9200 FAX 420.9210 509.924-9200 FAX 924.9290 503-906-9200 FAX 906-9210 907-563-9200 FAX 563-9210

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244
 11922 E. Fitrst Ave, Spokane, WA 99206-5302
 9405 SW Nimbus Ave, Bearcaton, OR 97008-7145
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

|   |   |                         | с<br>С             | HAIN           | CHAIN OF CUSTODY REPORT     | DY REPOR                    |                                |            | Work Order #:  | ·#·   |                              |
|---|---|-------------------------|--------------------|----------------|-----------------------------|-----------------------------|--------------------------------|------------|--|---|------------------------------|
| COU<br>DILL DHENL & STANTER   | NOU.                                    |                         | مىلىكىيەت يىلى بىل | INVOICE        | INVOICE TO: RICKE TEXTER IN | 1-1-2                       |                                |            | TUR  | TURNAROUND REQUEST  | ST                           |
| ) ~<br>(0)  | ,<br>)<br>,<br>,                        |                         |                    |                |                             | 9209<br>7<br>7              |                                |            |  | in Business Days *  |                              |
| 22024   | lines<br>Lines                          |                         |                    |                |                             |                             |                                |            | T Organ  | Crganic & Inorganic Analyses     7     5     4     3     2                        | [<br>▼]                      |
| EAX: 4255   | 3721650                                 | ~                       |                    | P.O. NUMBER    | BER:                        |                             |                                |            | SID. Petrol  | aum Hydrocarbon Analyse   | ]                            |
| PROJECT NAME: 3 4 8-5   | L                                       | -                       |                    |                | PRESE                       | PRESERVATIVE                |                                |            | 5 4  | 3 2 1   | <1                           |
| PROJECT NUMBER: スレンスロンパイズ   |   |                         |                    |                |                             |                             | -                              |            | STD.   |   |                              |
| SAMPLED BY: ( (   |   |                         |                    |                |                             | KEQUESTED ANALYSES          |                                |            | * Thermative Register  | UTHER Specify:<br>* Transmand Remarks leve them standard meav heav Roots Channess | is Roch Charac               |
|   |   | - MG                    | kan<br>Kan         |                |                             |                             |                                |            | MATRIX # 0   | F LOCATION  | , TA                         |
| IDENTIFICATION DATE/TIME  |   |                         |                    |                |                             |                             |                                |            | (W, S, O) CONT.  | T. COMMENTS   | MÛ ID                        |
| Litter Eff Stuller eg   | 9140                                    |                         |                    |                |                             |                             |                                |            | server of the se | 3985  | 2                            |
| O'  | 235                                     | $\frac{\times}{\times}$ | ~~                 |                |                             |                             |                                |            |  | oduren flet M   | constitution                 |
| •   | 5 5                                     |                         |                    |                |                             |                             |                                |            |  | p provide a protection  | an wateral i wateral         |
| + Tot Into 6 9  | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ |                         |                    |                |                             |                             |                                |            | "  | ar ang  | elle obserte enderdonee      |
| SVE INP SINGLE  | 0.0                                     | $\searrow$              |                    |                |                             |                             |                                |            | 200  |   |                              |
| a 512,60 P  | 030                                     |                         | X                  |                |                             |                             |                                | -          | C ANSWA  | 3482  | W/A                          |
| the second |   |                         |                    |                |                             |                             |                                |            |  |   |                              |
|   |   |                         |                    |                |                             |                             |                                |            |  |   |                              |
| 6   |   |                         |                    |                |                             |                             |                                |            |  |   |                              |
| . 01  |   |                         |                    |                | 45° mg                      |                             |                                |            |  |   |                              |
| RULEASED RY & ROLLAND   | firm: 5 7,                              | 5 174 25                | ر<br>ایر           | DATE:<br>TIME: | 5/2/000                     | RECEIVED BY:<br>PRINT NAME: | Usuati nuantu<br>Calate Nigare | ar<br>QVER | FIRME TIML   | PIRME TALE SCORTU TIME  | DATE: 05-21-04<br>TIME: 1305 |
| RELEASED BY:  |   |                         |                    | DATE:          |                             | RECEIVED BY:                | 94-10                          |            |  |   |                              |
|   | FIRM:                                   |                         |                    | TIME           |                             | PRINT NAME:                 |                                |            | FIRM:  | TIME  |                              |
| ADDERVAL REMARKS:   |   |                         |                    |                |                             |                             |                                |            |  | TEMP:<br>PAGE   | -01-<br>C                    |

TAL-1000(0408)

٩ SITE OBSERVATION REPORT 3485 File No. Project: 6 Project No. Contractor: COP Project No. Owner: 9 RENTON, WA MAY 26,2009 Date: Stantec Location: Page of Ð L. Rawlins onsite, text Tammy P and signed in at office. Moved truck to remaliation area 12:40 9 set up delineation after putting on P.P.E 9 Review Hasp and safety 9 13:15 Calibrate PID and set up equipment. 192 13:55 Opened Knock-out drum - filter is ok at this time Finished vapor check. 14:00 Turning system back on after filter check. Will to take tank farm well readings and check lines. Ø Called P.M before going to tank farm to give vapor reading up date. Going to sign out at office. Remove delineation 14:05 108 ian) 14:30 u and P.P.E. text T.P. L. Rawlins off site L. Rawlins L. Rulin 188 1 112 1992 1 Í 24 15 

#### ConocoPhillips - Renton Terminal **Remediation System Operation Log** 2423 Lind Ave, Renton WA

SECOR PN: 01CP.03485.45

Date: 5-26-09

13:15 Time:

Inspected By: L. RAWLINS

|  |   |  |   | Site Status                   |  |  |                      |  |
|--|---|--|---|-------------------------------|--|--|----------------------|--|
| Motor Control Cer<br>status and that pan |   | r switch                                 | YTS /OK   | Hoses Inspecte<br>Comments:   | ed (yes/no):   | YES  |                      |  |
| Flow meters check                        | ed for operatio   | n and leaks                              | previous  | Tanks inspecte                | ed for leaks. b  | io-grówth  |                      | No   |
|  |   | <br>                                     | SVE   | System                        |  |  |                      |  |
| One                                      | rating on Arriv   | al (Yes/No):                             | YES   |                               | Operati  | nig on Departur  | re (Yes/No):         | YES  |
| If No, what alarms                       | and the second  |  |   |                               |  |  | ·                    | 1  |
|  | System F  | allan Malan Chini waa is iski            |   |                               | Quarterl   | y Maintenanc   | e Items              |  |
|  | 29  | 257                                      |   | Add/Change                    | il in SVE blo  | war (vec/no)   |                      | Nº/OK  |
| Hour Meter Readin                        | ng (hrs)  | 771.8                                    |   | Add/Change of Maintain filter |  | ويستبع المائة فستبدرون والمتحملات والمتحمل المرابع   |                      | OK   |
|  |   | -6-09                                    | 135°F   |                               |  |  |                      |  |
| Influent Air Temp                        | erature   | - 1                                      | 1371  | Check Float S                 |  |  |                      | OK   |
|  |   |  | ~20   |                               |  | tly being extra  |                      |  |
| Total Vacuum Rea                         | iding (in. H2O  | )  | ~ 30  | Well                          | Extracting (air/water)   | Vacuum (in<br>H20)   | Delivery<br>Pressure | VOCs at<br>well (PID)                        |
| Total Flowrate (sc                       | fm)   |  | 196   | RW-2                          | AHR :  | 25   |                      |  |
| 1 Otal 1 TOWIALC (SC.                    | <u>iiii)</u>  |  |   | RW-3                          |  |  |                      | $\overline{)}$                               |
| SVE VOCs (PID)                           | (ppm)   |  | 9.6   | RW-7                          |  | VV   | VV                   |  |
|  | <u>.</u>  |  | NOT   | LAI-4                         | AIR  | 22   |                      |  |
| Air stripper effluer                     | nt VOCs (PID)   | (ppm) <sup>5</sup>                       | OPERATING   | LAI-5                         | AIR  | 22   |                      | <u> </u>                                     |
|  |   |  | 5 11  | LAI-6                         |  |  |                      |  |
| Influent total VOC                       | Cs (PID)(ppm)   | (  | 2.4   | LAI-7                         | AIR  | 20   |                      | <u>├</u>                                     |
|  |   |  | 0,3   | LAI-8                         | AIR  | 2.00   |                      | <u>├</u>                                     |
| Effluent total VOC                       | Cs (PID)(ppm)   |  | 11  | LAI-9                         | AIR  | 28   |                      | <u>├</u>                                     |
| BTWC1, BTWC2                             |   |  | 20.1/145  | HW-1E<br>HW-1W                |  |  |                      | $\vdash$                                     |
| BIWCI, BIWCZ                             |   |  | Water Tro   | atment System                 | n  | 1  | -<br>                |  |
| 0.00                                     | erating on Arriv  | ual (Vec/No):                            | NO  | atment System                 |  | ing on Departu   | re (Yes/No):         | IND  |
|  | a alan da kana da na kana kana kana kana kan  |  | And the second | DINIL R                       |  | APPRO  |                      | <u> </u>                                     |
| If No, what alarm                        | No. of the second s  | Readings                                 |   |                               |  | y Maintenanc   |                      |  |
| Hour Meter Readi                         | ng (hrs)  |  |   | Check pressu                  | re relief valve  | operation in ai  | ir                   |  |
| Alarm Hours (in p                        | and the second se | splay)                                   |   | compressor (                  |  | -  |                      | T  |
| Air stripper vacuu                       |   | da                                       |   | 1                             |  |  | nle (man/)           |  |
| Pressure on Carbo                        |   |  |   | Manually dra                  | un water in an   | compressor ta  | nk (yes/no)          |  |
| Storage tank oil le                      |   | duct)                                    | ft/ ft  |                               |  |  |                      |  |
| Pressure on filter                       |   |  |   | Clean Air Str                 | ripper (yes/no)  | )  |                      |  |
| Air stripper influe                      |   | (gal)                                    |   | Change oil in                 | air compress   | or (yes/no)  |                      |  |
| Air stripper influe                      |   |  |   | Check settlin                 | g tank for slue  | ige buildup (ye  | es/no)               |  |
| Air stripper efflue                      |   |  |   |                               | tention pond (   | A REAL PROPERTY OF A REA |                      |  |
| Air stripper efflue                      | nt flow rate (g   | al/min)                                  |   | Air compress                  | sor selonoid v   | alve operating (   | (y/n) .              | and a substance and a constant of the second |
| Air Samples                              | SVE INF   | AS EFF                                   | Total lnf   | Mid 1                         | Mid 2  | Total Eff  | PSCAA                | Discharge                                    |
| Analysis                                 | TPHg. BTEX  | TPHg. BTEX                               | TPHg. BTEX  | TPHg. BTEX                    | TPHg. BTEX   | TPHg. BTEX   | 1                    | mit No.                                      |
| Sample Time                              |   | n an |   |                               |  |  | . (                  | 9648   |
| Water Samples                            | Total Inf   | Post AS                                  | Mid   | Tot                           | al Eff   |  | King Co              | ounty Metro                                  |
| Analysis                                 | TPHead. BTEX  | TPHg&d. BTEX                             | TPHg. BTEX  | TPHg&d                        | I, BTEX, PH  |  |                      | e Permit No.                                 |
| Sample Time                              |   |  |   |                               | and the second |  | 4(                   | 57-01  |
| General Commen                           | ts (activities co   | nducted chan                             | ges to system, etc  | ):                            |  |  |                      |  |

9 SITE OBSERVATION REPORT 3485 9 File No. Project: 9 Project No. Contractor: COP Project No. Owner: Ì Renton, WA May 29 Stantec Date: Location: Page of Ĵ SUNNY ~ 75°F Í L. Rawlins on-site Checked in at office and 9:00 talked with personnel about site Drove to compound area, put on PP.E. placed delineators around truck and text T. Parise ÿ Ő Í on-site. 9:55 Í Review HASP/Safety Begin set up for vapor check. System/vapor check complete Sign out at office, remove delineation and PPE and call T. Parise 10:10 Ó 10:30 1 ž) 10:48 099-site L. Rawlins L. Ruhi ٩ 1 ٢ Ì Ø 4

ConocoPhillips - Renton Terminal Remediation System Operation Log 2423 Lind Ave, Renton WA

SECOR PN: 01CP.03485.45

Date: 5/29/09

Time: 10 .....

Inspected By: L. Rawlins

|   |  |  | General  | Site Status                            |  |                    |   |  |
|---|--|--|--|--|--|--------------------|---|--|
| Motor Control Cen<br>status and that pane |  | r switch   | YES  | Hoses Inspecte<br>Comments:            | ed (yes/no):   | in sy              | stem  | 2189   |
| Flow meters check                         | ed for operatio  | on and leaks   | see preylous   | Tanks inspecte                         | ed for leaks, b  | io-growth          |   | NO   |
| The second second                         |  |  | SVE  | System                                 |  |                    | 1110-04276  |  |
| One                                       | rating on Arriv  | val (Yes/No).  | VES  |  | Operati  | ng on Departur     | re (Yes/No):  | YES  |
| If No, what alarms                        |  |  | <u></u>  |  |  |                    |   | T  |
| 11440, what alarm                         | Svstem H   | National Agencies and Stational Astronomy  |  |  | Ouarterl   | y Maintenanc       | e Items   |  |
|   |  |  |  |  |  |                    |   | 1  |
| Hour Meter Readin                         | ng (hrs)   | 771.8  | 4  | Add/Change c                           |  |                    |   | <u> </u>   |
|   | +15  | -6-051   |  | Maintain filter                        | in KO Drum   | (yes/no)           |   |  |
| Influent Air Temp                         | erature  |  | 140  | Check Float S                          | witch in KO d  | irum               |   | /  |
|   |  |  | 2.0  |  | Wells curren   | tly being extra    | acted from  |  |
| Total Vacuum Rea                          | iding (in. H2O   | )  | 30   | Well                                   | Extracting (air/water)   | Vacuum (in<br>H20) | Delivery<br>Pressure  | VOCs at well (PID)   |
| Total Flowrate (sc                        | fm)  |  | 210  | RW-2                                   | (uni water)  |                    |   |  |
| TOTAL FIOWLARE (SC.                       |  |  |  | RW-3                                   |  |                    |   |  |
| SVE VOCs (PID)                            | (nnm.)   |  | CASSION CK   | RW-7                                   |  |                    | · · /   | 1  |
| 5 (E +005 (IE))                           | (ppm)  |  | 1 Na   | LAI-4                                  |  |                    |   |  |
| Air stripper effluer                      | nt VOCs (PID)  | (ppm)  | . At   | LAI-5                                  |  |                    |   |  |
|   |  |  | · · ·  | LAI-6                                  |  |                    | Ĺ   |  |
| Influent total VOC                        | Cs (PID)(ppm)  |  | 3.0  | LAI-7                                  |  |                    |   | <u> </u>   |
|   |  |  | 0.1  | LAI-8                                  |  |                    |   |  |
| Effluent total VOC                        | Cs (PID)(ppm)  |  |  | LAI-9                                  |  | 1                  | [   |  |
|   |  |  | 13.8/3.0   | HW-1E<br>HW-1W                         |  |                    |   |  |
| BTWC1, BTWC2                              |  |  |  | HW-IW                                  | 6  |                    | <u> </u>  |  |
|   |  |  | Water Tre  | atment System                          | n  |                    | -20   |  |
| Ope                                       | rating on Arri   | val (Yes/No):  | NO   |  | Operat   | ing on Departu     | re (Yes/No)   | NO.  |
| If No, what alarm                         | s shut system  | down: Per  | ding re  | Dairs                                  |  |                    |   | e stationer and the  |
|   |  | Readings   | 2  |  | Month  | y Maintenanc       | e Items   |  |
| Hour Meter Readi                          | ng (hrs)   |  |  | Check pressu                           | re relief valve  | operation in a     | ir  | 1  |
| Alarm Hours (in p                         | anel digital di  | splay)   |  | compressor (                           | yes/no)  |                    |   |  |
| Air stripper vacuu                        | m (in H2O)   |  | <u> </u>   | Manually dra                           | in water in ai   | · compressor ta    | nk (ves/no)   |  |
| Pressure on Carbo                         | n vessel (psi)   |  |  | intendenty die                         |  |                    |   |  |
| Storage tank oil le                       | vel (water/pro   | duct)  | $\int ft/ft$   |  |  |                    |   |  |
| Pressure on filter l                      |  |  |  |  | ipper (yes/no)   |                    |   | <u> </u>   |
| Air stripper influe                       |  |  |  |  | air compress   |                    | $p_{\alpha}(\mathbf{n}_{\alpha})$   | + + +  |
| Air stripper influe                       |  |  | <u> </u>   |  | Contraction of the local division of the loc | dge buildup (ye    | 25/110)   |  |
| Air stripper efflue                       |  |  | <u> </u>   |  | tention pond (   | alve operating     | (v/n)   | +  |
| Air stripper efflue                       | AND REPORT OF A DESCRIPTION OF A DESCRIP |  |  | ************************************** | NAMES OF A DESCRIPTION OF   |                    |   | and a second |
| Air Samples                               | SVE INF  | AS EFF   | Total lnf  | Mid 1                                  | Mid 2  | TotalEff           |   | Discharge  |
| Analysis                                  | TPHg. BTEX   | TPHg. BTEX   | TPHg. BTEX   | TPHg. BTEX                             | TPHE BTEX  | TPHg. BTEX         | -   | mit No.  |
| Sample Time                               | TALAM MANAGEMENT AND A MARK TANDARD AND A MARK TAN   | A DESCRIPTION OF A REAL POINT OF A DESCRIPTION OF A DESCRIP | a dia<br>Managember 1990 - Maria Mar |  |  |                    | STATE SCREET STORE ST | 9648   |
| Water Samples                             | Total Inf  | Post AS  | Mid  |  | al Eff   |                    |   | ounty Metro  |
| Analysis                                  | TPHg&d. BTEX   | TPHg&d-BTEX  | TPHg. BTEX   | TPHg&d                                 | BTEX, PH   |                    | 1   | e Permit No.   |
| Sample Time                               |  |  |  |  |  |                    | 4(  | )57-01   |
| General Commen                            | ts (activities co  | onducted chan  | ges to system, etc   | ):                                     | ·  |                    |   |  |

3485 Project: File No. Contractor: Project No. COP Project No. Owner: Renton, MA Date: June Stantec Location: 200 Page SUNNY ~ 87° F L. Rawlins on-site, check in at office, text 3.55 P.M and T. Parise Finished potting on P.P.E, setting up delineation and 14:20 Hasp/safety relview. 14:30 Calibrated PiD, begin vapor readings 181 14:55 Called P.M with vapor readings Heading into tank area for well readings and check 15:30 Remove and pack equipment? Took photos of anti i hoses that should be replaced, air compress delivery take has significant bowing on bern from heat Hoses on carbon vessel appear burnt from son. Removing delineation and P.P. Will drive track to office an i break from heat and sign out. 15:45 L. Rawlins off. site L. Rawlins J.P.L. 1 191 are: T TA 197 inere e "Rite in the Rain".

1984

TYPE

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281

281

1

2005 1005

1

SECOR PN: 01CP.03485.45

| Date: 6/1/00  | 1  | •   | Time: 14 30                                 |  |                                     | Inspected By:                              | L. Ro                    | wlins                  |
|---|--|---|---|--|-------------------------------------|--|--------------------------|------------------------|
|   |  |   | General                                     | Site Status  |                                     |  |                          |                        |
| Motor Control Cer<br>status and that pan  |  |   | YES   | Hoses Inspec<br>Comments:  | ted (yes/no):                       | AES 660                                    | see pre<br>notation      | Shon 1 h               |
| Flow meters check   |  | on and leaks  | still waiting<br>for offuent<br>flowmetster | Tanks inspec   | ted for leaks, bi                   | io-growth                                  |                          | No                     |
|   | 1  |   | Flowmetsty                                  | System   |                                     |  |                          |                        |
| Ope   | rating on Arriv  | val (Yes/No):   | YES   |  | Operati                             | ng on Departu                              | re (Yes/No):             |                        |
| If No, what alarm   | s shut system d  | iown:   |   |  |                                     |  |                          |                        |
|   | System 1   |   |   |  | Quarterl                            | y Maintenan                                | e Items                  |                        |
|   | 110  |   | 12852.7                                     |  | "' OVE 11                           | 0  |                          | OK                     |
| Hour Meter Readi  |  | 80.9  | 1003211                                     | And the second s | oil in SVE blov                     |  |                          | OK                     |
|   | + 87   | 771.8   | 150   | and the second se  | er in KO Drum                       |  | Mre                      |                        |
| Influent Air Temp   |  |   | 150   | Check Float  | Switch in KO d                      |  | 425                      | ok                     |
|   |  |   | 30  |  | Wells curren                        | tly being extr                             | acted from               |                        |
| Total Vacuum Rea  | ading (in. H2O   | ).  | 3~  | Well   | Extracting                          | Vacuum (in                                 | Delivery                 | VOCs at                |
|   |  |   | 196   |  | (air/water)                         | H20)                                       | Pressure                 | well (PID)             |
| Total Flowrate (sc  | fm)  |   | 1.10  | RW-2   | AIR                                 | 26   |                          | ++                     |
|   | (  |   | 21  | <u>RW-3</u><br>RW-7  | 16m                                 | $\beta \gamma \gamma \gamma$               | FV                       | the h                  |
| SVE VOCs (PID)  | (ppm)  |   | WTS   | LAI-4  | Ave                                 | 24   |                          | +                      |
| Air stripper efflue   | nt VOCs (PID)  | (nnm)   | down  | LAI-5  | AIR                                 | 24   | +                        | 1 1                    |
| An supper ennue   |  | Дррии)  |   | LAI-6  |                                     |  | 1                        |                        |
| Influent total VOC  | Cs (PID)(ppm)  |   | 4.8   | LAI-7  | AIR                                 | 20   |                          |                        |
|   | a shakar ya na ƙwallon ƙafa ta ƙafa ƙ  |   |   | LAI-8  | AIR                                 | 28   |                          | $\downarrow$           |
| Effluent total VO   | Cs (PID)(ppm)  |   | 0.1   | LAI-9  | AVR                                 | 29   | <u> /</u>                | ↓/                     |
|   |  |   | 25.4/16.0                                   | HW-1E  |                                     |  | ¥                        | ļ/                     |
| BTWC1, BTWC2  | 2  |   | <u></u>                                     | HW-1W  |                                     |  | <u> </u>                 | Į                      |
|   |  |   | Water Tre                                   | atment Syste   | en i                                |  |                          |                        |
| Opt   | erating on Arri  | val (Yes/No):   | NO  |  |                                     | ing on Depa <del>r</del> t                 |                          |                        |
| If No, what alarm   | ne chut svetem i   | down Per  | DING PA                                     | ARTS 10  | compres                             | sor: Mo                                    | tor. +to                 | shing an               |
| ii NO, what alain   |  | Readings  |   |  |                                     | y Maintenan                                |                          | 0                      |
|   |  | rcourani 60   | 1 /   |  |                                     |  |                          | 1 /                    |
| Hour Meter Read   |  |   | /-  |  | ure relief valve                    | operation in a                             | ur                       |                        |
| Alarm Hours (in J   |  | splay)  | /   | compressor   | (yes/no)                            |  |                          | +/-                    |
| Air stripper vacut  |  |   | /   | Manually dr  | ain water in air                    | · compressor t                             | ank (yes/no)             |                        |
| Pressure on Carbo   |  |   | /   |  |                                     |  |                          | +                      |
| Storage tank oil le   | The second s   | duct)   | ft/ ft                                      |  | and and the second second           |  |                          |                        |
| Pressure on filter  | the second s   | (m)   | /   |  | tripper (yes/no)<br>in air compress |  |                          | +                      |
| Air stripper influe<br>Air stripper influe  | and the second | and the second se |   |  | ng tank for sluc                    |  | es/no)                   | 1/                     |
| Air stripper influe   |  |   |   | and the second se  | etention pond (                     |  |                          | 1/                     |
| Air stripper efflue   |  |   |   |  | ssor selonoid va                    |  | (y/n)                    | 7                      |
|   | SVE INF  | AS EFF  | 7 Total Inf                                 | Mid 1  | Mid 2                               | Total Eff                                  | CONTRACTOR OF CONTRACTOR | Dischasse              |
| Air Samples   |  |   |   |  |                                     |  | i i bon                  | A Discharge<br>mit No. |
| Analysis<br>Sample Time   | TPHg. BTEX   | TPHg. BTEX  | TPHg. BTEX                                  | TPHg. BTEX   | TIPHE BIEA                          | ITTE DIEA                                  |                          | mit No.<br>9648        |
| Sample Time   | Totalinf   | Post AC   | Mid   | T To   | tal Eff                             | IN MARKED IN THE REAL PROPERTY OF THE      |                          | ounty Metro            |
| Water Samples   | Total Inf  | Post AS   |   |  | d. BTEX, PH                         | +  |                          | e Permit No.           |
| Analysis<br>Sample Time   | TPHg&d, BTEX   | TPHASE. BTEX  | TPHg. BTEX                                  | 1 Frig&  | u, diea, fr                         | +  |                          | )57-01                 |
| NAMES OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY.   | te (optimit)   | I and ucted also  | to a to anotom at-                          |  |                                     | and an |                          |                        |
| The second se |  |   | ges to system, etc                          |  |                                     | from                                       | heat                     | -fron                  |
| Compress  |  |   |   |  | Dowed                               |  | 1 . 1                    | 7 1                    |
| Ingersol  | 1-Rand   | may   | want/ 19                                    | ve to  | chang                               | )~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~    | highe                    | <u>r r 40</u>          |
| A 65  |  |   | ¥.  |  |                                     | • . ·                                      |                          |                        |

Renton OM Form (5-20-08).xls

SITE OBSERVATION REPORT 3485 File No. Project: Project No. Contractor: COP Project No. Owner: June 4 2009 Renton, WA Date: Location: \_\_\_\_\_ of\_\_\_ Stantec Page SUDAY~ 81°F 900 LRawlins and M. Tolley on-site. Call T. Parise Sign in at office and get site update from. terminal staff 9:20 Put on P.P.Z. Delineate truck area and area. Update M.T. on site. Purpose: Found system down, restart system and check vapors. Place hose in ferneo. grs. Began readings, appear low after just restarting. Will hook up hose while system starts warm-up and will retake readings. 10:30 Prepping to place hose firmly in ferco 10:50 Hose firmly in fernal Check rest of hoses. See previous notes, Carbon vapor hoses show heat/walamage sticky to touch 11:00 Recheck and redorded vojpar readings. WTS still not operational; need motor for compressor, compressed air line flow meter/totalizer. Need pressure washer to dean air stripper. 11:15 Shaved M.T. shed on-site, need to inventory and clean out. Two drums of liquid carbon pre filters on site need to profile and remove. 9 11:30 Cleaning op delineation, remove P.P.E and drive truck to sign out at office L. Rawlins and M. Jolley L. Rawlins Z.P. "hits in the hain"

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Tall

<u>Time: 9</u>40

SECOR PN: 01CP.03485.45

| Date: | 10 | 14     | 109 |  |
|-------|----|--------|-----|--|
| Date. | 6  | / ~/ . |     |  |

XX

Inspected By: L-Rawling /M-Tolley

|  | Genera  | Site Status  |   |  |                                     |  |  |
|--|---|--|---|--|-------------------------------------|--|--|
| Motor Control Center checked for switch status and that panels are closed  | YES   | Hoses Inspected (yes/no):<br>Comments:   | yes js  | ee not   | res_                                |  |  |
| Flow meters checked for operation and leaks  | eff down<br>still need                            | Tanks inspected for leaks, bi  | io-growth   |  | YES                                 |  |  |
|  | repair svi  |  |   |  |                                     |  |  |
|  | 1.212   |  | na an Departur  | o (Voo/No)   | YES                                 |  |  |
| Operating on Arrival (Yes/No):   | NO  | Operatii   | ng on Departur  | e ( 1 es/100): ]                                     | 102                                 |  |  |
| If No, what alarms shut system down: No  | alorm   | a provincia da camanda |   |  | And Andrews and Andrews and Andrews |  |  |
| System Readings  |   | Quarterl   | y Maintenanco   | eItems   |                                     |  |  |
| Hour Meter Reading (hrs) $4106.7$<br>5771.8<br>5-6-08  |   | Add/Change oil in SVE blov   | wer (yes(no))   |  | OK'                                 |  |  |
| 8771.81  |   | Maintain filter in KO Drum   | (yes no)  |  | OK                                  |  |  |
|  | 130   | Check Float Switch in KO d   |   |  | 200                                 |  |  |
| Influent Air Temperature   | 130   |  |   | ated from  | 100                                 |  |  |
|  | 20  |  | tly being extra   |  | VOCs at                             |  |  |
| Total Vacuum Reading (in. H2O)   | 30  | Well   | Vacuum (in<br>H20)  | Delivery<br>Pressure                                 | well (PID)                          |  |  |
|  | 1110  | (air/water)<br>RW-2  | n20)  | T ICSSUIC  | wen (eu)                            |  |  |
| Total Flowrate (scfm)  | 116   | RW-2<br>RW-3   |   |  |                                     |  |  |
| CVE VOC (DIDVnm)   | Const Massimuter.                                 | RW-5<br>RW-7   | 0   |  |                                     |  |  |
| SVE VOCs (PID)(ppm)  | DOWN  | LAI-4 ,/A  | POK   |  | 1                                   |  |  |
| Air stripper effluent VOCs (PID)(ppm)  | Jul   | LAI-5  |   | ηζ.  | 4                                   |  |  |
| An suppor enhauter vocs (i to/(ppm)  |   | LAI-6  | .12   | - Al   |                                     |  |  |
| Influent total VOCs (PID)(ppm)   | 8-8   | LAI-7  | 1   | 0  |                                     |  |  |
|  |   | LAI-8  |   |  |                                     |  |  |
| Effluent total VOCs (PID)(ppm)   | 0.0   | LA1-9  |   |  |                                     |  |  |
| BTWC1, BTWC2 6.6   | 4.9/1.6   | HW-1E<br>HW-1W   |   |  |                                     |  |  |
|  | Water Tre   | eatment System   |   |  |                                     |  |  |
| Operating on Arrival (Yes/No)  | NO  | Operati  | ing on Departu  | re (Yes/No);   | 100                                 |  |  |
| If No, what alarms shut system down: $\mathcal{A}\mathcal{W}$  | ating r   | epair approv   | al pa   | ints   |                                     |  |  |
| System Readings  | J   |  | y Maintenance   |  |                                     |  |  |
|  | 1   | Check pressure relief valve  | operation in ai   | r /  |                                     |  |  |
| Hour Meter Reading (hrs)<br>Alarm Hours (in panel digital display)   | -   | compressor (ves/no)  | oporation in al   |  |                                     |  |  |
| Air stripper vacuum (in H2O)   |   |  |   |  |                                     |  |  |
|  |   | Manually drain water in air compressor tank (yes/no)   |   |  |                                     |  |  |
| Pressure on Carbon vessel (psi)  | <u>Cr. / · · · · · · · · · · · · · · · · · · </u> |  |   | an a             |                                     |  |  |
| Storage tank oil level (water/product)   | ft/ ft  | Clean Air Stripper (ves/no)  |   |  |                                     |  |  |
| Pressure on filter housing (psi)<br>Air stripper influent flow meter (gal)                                       | LADDIL  | Change oil in air compresso  |   |  | 1                                   |  |  |
| Air stripper influent flow meter (gal)<br>Air stripper influent flow rate (gal/min)                              | the cr  | Check settling tank for slud   |   | s/no)  |                                     |  |  |
| Air stripper effluent flow meter (gal)   | 1   | Product in retention pond (  |   | 8.94 Mart 10 - 11 - 14 - 17 - 17 - 17 - 17 - 17 - 17 |                                     |  |  |
| Air stripper effluent flow neter (gal/min)   |   | Air compressor selonoid va   |   | y/n)   |                                     |  |  |
| CONTRACTOR AND ADDRESS OF A DESCRIPTION OF A | Total Inf   | Mid 1 Mid 2  | Total Eff   |  | Dicol                               |  |  |
| Air Samples SVE INF AS EFF   | Total Inf   |  | No. of the second se | 1  | Discharge<br>nit No.                |  |  |
| Analysis TPHg. BTEX TPHg. BTEX   | TPHg. BTEX  | TPHg. BTEX TPHg. BTEX  | TPHg. BTEX  |  | nit No.<br>9648                     |  |  |
| Sample Time  |   |  |   |  | *******                             |  |  |
| Water Samples Total Inf Post AS  | Mid   | Total Eff  |   | -  | ounty Metro                         |  |  |
| Analysis TPH2&d. BTEX TPH2&d. BTEX   | TPHg. BTEX  | TPHg&d. BTEX, PH   |   | 1 -  | e Permit No.<br>57-01               |  |  |
| Sample Time  |   |  |   | 1 40   | 57-01                               |  |  |
| General Comments (activities conducted chan  | nges to system, etc                               |  | 01/   |  |                                     |  |  |
| * Need to prof   | File liqu   | id carbon p  | retilte   | 22   |                                     |  |  |
| * * Suspect vapor  | reading   | s, where   | much  | high   | 1er 6/1                             |  |  |
|  |   | <u>)                                    </u>   |   | J  | · ·                                 |  |  |

SECOR PN: 01CP.03485.45

Date: 618/09

Time: 14-30

Inspected By: M. Tolley,

|                         |  |   | Genera     | l Site Status  | <u> </u>   |  |   |                       |
|-------------------------|--|---|------------|--|--|--|---|-----------------------|
| Motor Control Cer       |  | or switch   |            | Hoses Inspect  | ed (ves/no):   |  |   | ەبىر                  |
| status and that pan     | els are closed                         |   | YES, OK    | Comments:  | SUN PAN  | NACE TO  | SVEL  | INES                  |
| Flow meters check       | ked for operation                      | on and leaks  | ONA        | Tanks inspected  |  |  |   | XE S                  |
|                         |  |   | SVI        | E System   |  |  | _   |                       |
| Ope                     | rating on Arriv                        | val (Yes No)?   |            |  | Operati  | ng on Departu  | re (Yes/No):  |                       |
| If No, what alarm       |  |   | S-BATCH    | HI CEVE  |  |  |   |                       |
| II 140, What alarm      |  | Readings  | o tonjen   | et. m =  |  | y Maintenanc   | e Items   |                       |
| Hour Meter Readi        |  |   | 12tta      | Add/Change   | oil in SVE blo   | wer (vestoo)   |   |                       |
| Hour Meter Read         | ng (nrs) 91                            | 14,-1   |            |  | r in KO Drum   |  |   |                       |
|                         |  |   | 1.05       |  |  |  |   | 18.5                  |
| Influent Air Temp       | erature                                |   | 135        | -  | witch in KO o  |  |   | YÈS                   |
|                         | 1                                      | <b>X</b>  | 20         |  |  | tly being extra  |   | L NOG -               |
| Total Vacuum Rea        | ading (in. H2O                         | ')  | 30         | Well   | Extracting   | Vacuum (in<br>H20)   | Delivery  | VOCs at<br>well (PID) |
| Total Flowrate (sc      | (fm)                                   |   | 210        | RW-2   | (air/water)  | H20)   | Pressure  | well (PID)            |
| Total Flowfale (se      | 1111)                                  |   | 210        | RW-3   |  |  |   |                       |
| SVE VOCs (PID)          | (ppm)                                  |   |            | RW-7   |  |  | /   |                       |
|                         | <u>(()</u>                             |   | NOT        | LAI-4  |  |  |   |                       |
| Air stripper efflue     | nt VOCs (PID)                          | )(ppm)  | OPERATING  | LAI-5  |  | 1 . A  |   |                       |
|                         |  |   |            | LAI-6  |  | NAX  |   |                       |
| Influent total VOC      | Cs (PID)(ppm)                          |   | 17.1       | LAI-7  |  | 1-1-6  | 10-   |                       |
|                         | -                                      |   | 0.0        | LAI-8  |  | $\mathbb{R}^{\mathbb{A}}$  |   |                       |
| Effluent total VOC      | Cs (PID)(ppm)                          |   |            | LAI-9  |  | /  |   |                       |
| BTWC1, BTWC2            |  | 2.31  | 0-8        | HW-1E<br>HW-1W   | /  |  |   |                       |
| BIWCI, BIWC2            | ,                                      |   |            |  | [  |  |   | 1                     |
|                         |  |   |            | eatment Systen   |  |  |   |                       |
| Ope                     | erating on Arriv                       | val (Yes/No).   |            | 1  |  | ing on Departu   |   |                       |
| If No, what alarm       | is shut system o                       | down:   | S-BREM J   | tenni Fg   | R TZEPA  | <u>ins (a</u>  | mpnes   | son)                  |
| -                       | System 1                               | Readings  |            |  | Monthl   | y Maintenanc   | e Items   |                       |
| Hour Meter Readi        | ng (hrs)                               |   |            | Check pressure relief valve operation in air   |  |  |   |                       |
| Alarm Hours (in p       | anel digital dis                       | splay) 11.  |            | compressor (yes/no)  |  |  |   |                       |
| Air stripper vacuu      | m (in H2O)                             | - VA  | Pop        | Monually dra   | in water in air  | compressor ta  | nk (ves/no)   |                       |
| Pressure on Carbo       | on vessel (psi)                        |   | CHE        |  | in water in an   | compressor a   | ( <b>j c</b> 5/110)   |                       |
| Storage tank oil le     | evel (water/pro                        | duct)   | ft/ ft     | Fa   |  |  |   |                       |
| Pressure on filter l    |  |   |            | and the second s | ipper (yes/no)   |  |   |                       |
| Air stripper influe     |  |   |            |  | air compresso  |  | ( )   |                       |
| Air stripper influe     | ······································ | and the second    |            |  | ention pond (  | lge buildup (ye  | s/no)   |                       |
| Air stripper efflue     |  |   |            | - M  |  | ive operating (  | v/n)  | <u> </u>              |
| Air stripper efflue     |  | n na anna ann an Anna ann an Anna an A<br>I |            | an fermanen an de grande an  | Personal Contraction of the State of the Sta | and the second design of the s | y/11)   |                       |
| Air Samples             | SVE INF                                | AS EFF  | Total Inf  | Mid 1  | Mid 2  | TotalEff   |   | Discharge             |
| Analysis                | TPHg, BTEX                             | TPHg, BTEX  | TPHg, BTEX | TPHg, BTEX   | TPHS BTEX  | WC   |   | nit No.               |
| Sample Time             | NC<br>Tatal laf                        | NC<br>Dest AS   | NC NG      | NC   |  | K  | for an a second s | 648                   |
| Water Samples           | Total Inf                              | Post AS   | Mid        |  | al Eff   | +  |   | unty Metro            |
| Analysis<br>Sample Time | TPHg&d. BTEX<br>NM                     | TPHg&d, BTEX  | TPHg. BTEX | TPHg&d,  | BTEX, PH   | $\rightarrow$  |   | e Permit No.<br>57-01 |
| Sample Time             |  |   |            |  |  |  | 40  | J / -U I              |
| General Comment         | $\frac{15}{2} \rightarrow VE$          |   |            |  | CEMENT.  |  |   | >                     |
| HOSE VE                 | r L T V C                              | <u>3 1445</u>   | HOIES NOE  | V7 KEPIA   | CEIVIER IS   |  |   |                       |

3"

# SITE OBSERVATION REPORT

| Stantec  | Project:<br>Contractor:<br>Owner:<br>Location:    | 3485 Ravers<br>COP/STANT<br>RENTON UNE  | EC.  | File No.<br>Project No.<br>Project No.<br>Date:<br>Page | Junte 8, 2009.        |
|--|---|---|--|---|-----------------------|
| 14:20  | MOB TO<br>ANRIVE<br>HOBP                          | ON SITE, HEAT STRES   | s a concer   | n   | A11-IN TO TP          |
| 14:37<br>14;45<br>140:30<br>15:01  | CONFINM<br>OWLY SI<br>REFET S                     | ✓ NEED MONE<br>Drawns upons<br>Access For ca<br>GIE (ONE) UPON<br>TSTEM:<br>OPENATIONAL PAN                 | ARPZIUAN<br>NBOW C/WT.<br>Man AUAilloli                                | 2 TINE RELIEVA  |                       |
| 15:25  | DÍSCOMPLET<br>TAPED HI<br>CALI F                  | TOR READINGS<br>HOLES IN<br>NOS WITH EIGCT<br>RE WITH UPPA  | FILAL TAPE FOR   | TEMPURAN +  | FIX.<br>MI HOZE       |
| (5:39  | * cov<br>CA<br>* F1<br>* Sc<br>* Re<br>& Ri       | FIRM ALLESS /<br>2BON C/OUT<br>ITER SAMPLE<br>IN DRUMS B<br>PLACE SVE WEST<br>EPLACE COMPNESS<br>PRATE SIGN | (TENTATIVE<br>DTIK REQUINA<br>H20 ON SIZE<br>EL H0555 R =<br>M H0500 * | G/23/04)<br>ED (WED)<br>3"                              | INIGENSUI RAUD TEELE. |
| $   \begin{array}{c}     15: & 15 \\     15: & 52 \\     15: & 52 \\     16: & 15 \\     16: & 15 \\     16: & 22 \\     16: & 30 \\     13: & 20 \\   \end{array} $ | PHONSE I<br>CD GOT<br>CAIL-JW<br>PACIL-WP<br>SIGN | E, MOB TO OF  | EFCC: ST<br>OSE DEPUTCENTE<br>CC: NEAN A<br>E PPE<br>FICC,             | tstem stat  | w5.                   |
|  |   |   |  |   |                       |

SECOR PN: 01CP.03485.45

Date: 618/09

Time: 14-30

Inspected By: M. Tolley,

|                         |                               |   | Genera     | l Site Status  | <u> </u>   |  |  |                       |
|-------------------------|-------------------------------|---|------------|--|--|--|--|-----------------------|
| Motor Control Cer       |                               | or switch   |            | Hoses Inspect  | ed (ves/no):   |  |  | ەبىر                  |
| status and that pan     | els are closed                |   | YES, OK    | Comments:  | SUN PAN  | NACE TO  | SVEL   | INES                  |
| Flow meters check       | ked for operation             | on and leaks  | ONA        | Tanks inspected  |  |  |  | XE S                  |
|                         |                               |   | SVI        | E System   |  |  | _  |                       |
| Ope                     | rating on Arriv               | val (Yes No)?   |            |  | Operati  | ng on Departu  | re (Yes/No):   |                       |
| If No, what alarm       |                               |   | S-BATCH    | HI CEVE  |  |  |  |                       |
| II 140, What alarm      |                               | Readings  | o tonjen   | et. m =  |  | y Maintenanc   | e Items  |                       |
| Hour Meter Readi        |                               |   | 12tta      | Add/Change   | oil in SVE blo   | wer (vestoo)   |  |                       |
| Hour Meter Read         | ng (nrs) 91                   | 14,-1   |            |  | r in KO Drum   |  |  |                       |
|                         |                               |   | 1.05       |  |  |  |  | 18.5                  |
| Influent Air Temp       | erature                       |   | 135        | -  | witch in KO o  |  |  | YÈS                   |
|                         | 1                             | <b>X</b>  | 20         |  |  | tly being extra  |  | L NOG -               |
| Total Vacuum Rea        | ading (in. H2O                | ')  | 30         | Well   | Extracting   | Vacuum (in<br>H20)   | Delivery   | VOCs at<br>well (PID) |
| Total Flowrate (sc      | (fm)                          |   | 210        | RW-2   | (air/water)  | H20)   | Pressure   | well (PID)            |
| Total Flowfale (se      | 1111)                         |   | 210        | RW-3   |  |  |  |                       |
| SVE VOCs (PID)          | (ppm)                         |   |            | RW-7   |  |  | /  |                       |
|                         | <u>(()</u>                    |   | NOT        | LAI-4  |  |  |  |                       |
| Air stripper efflue     | nt VOCs (PID)                 | )(ppm)  | OPERATING  | LAI-5  |  | ι <u>,</u> , Λ   |  |                       |
|                         |                               |   |            | LAI-6  |  | NAX  |  |                       |
| Influent total VOC      | Cs (PID)(ppm)                 |   | 17.1       | LAI-7  |  | 1-1-6  | 10-  |                       |
|                         | -                             |   | 0.0        | LAI-8  |  | $\mathbb{R}^{\mathbb{A}}$  |  |                       |
| Effluent total VOC      | Cs (PID)(ppm)                 |   |            | LAI-9  |  | /  |  |                       |
| BTWC1, BTWC2            |                               | 2.31  | 0-8        | HW-1E<br>HW-1W   | /  |  |  |                       |
| BIWCI, BIWC2            | ,                             |   |            |  | [  |  |  | 1                     |
|                         |                               |   |            | eatment Systen   |  |  |  |                       |
| Ope                     | erating on Arriv              | val (Yes/No).   |            | 1  |  | ing on Departu   |  |                       |
| If No, what alarm       | is shut system o              | down:   | S-BREM J   | tenni Fg   | R TZEPA  | <u>ins (a</u>  | mpnes  | son)                  |
| -                       | System 1                      | Readings  |            |  | Monthl   | y Maintenanc   | e Items  |                       |
| Hour Meter Readi        | ng (hrs)                      |   |            | Check pressure relief valve operation in air   |  |  |  |                       |
| Alarm Hours (in p       | anel digital dis              | splay) 11.  |            | compressor (yes/no)  |  |  |  |                       |
| Air stripper vacuu      | m (in H2O)                    | - VA  | Pop        | Monually dra   | in water in air  | compressor ta  | nk (ves/no)  |                       |
| Pressure on Carbo       | on vessel (psi)               |   | CHE        |  | in water in an   | compressor a   | ( <b>j c</b> 5/110)  |                       |
| Storage tank oil le     | evel (water/pro               | duct)   | ft/ ft     | Fa   |  |  |  |                       |
| Pressure on filter l    |                               |   |            | and the second s | ipper (yes/no)   |  |  |                       |
| Air stripper influe     |                               |   |            |  | air compresso  |  | ( )  |                       |
| Air stripper influe     |                               | and the second    |            |  | ention pond (  | lge buildup (ye  | s/no)  |                       |
| Air stripper efflue     |                               |   |            | - M  |  | ive operating (  | v/n)   | <u> </u>              |
| Air stripper efflue     |                               | n na anna ann an Anna ann an Anna an A<br>I |            | an fermanen an de grande an  | Personal Contraction of the State of the Sta | and the second design of the s | y/11)  |                       |
| Air Samples             | SVE INF                       | AS EFF  | Total Inf  | Mid 1  | Mid 2  | TotalEff   |  | Discharge             |
| Analysis                | TPHg, BTEX                    | TPHg, BTEX  | TPHg, BTEX | TPHg, BTEX   | TPHS BTEX  | WC   |  | nit No.               |
| Sample Time             | NC<br>Tatal laf               | NC<br>Dest AS   | NC NG      | NC   |  | K  | former and the second s | 648                   |
| Water Samples           | Total Inf                     | Post AS   | Mid        |  | al Eff   | +  |  | unty Metro            |
| Analysis<br>Sample Time | TPHg&d. BTEX<br>NM            | TPHg&d, BTEX  | TPHg. BTEX | TPHg&d,  | BTEX, PH   | $\rightarrow$  |  | e Permit No.<br>57-01 |
| Sample Time             |                               |   |            |  |  |  | 40   | J / -U I              |
| General Comment         | $\frac{15}{2} \rightarrow VE$ |   |            |  | CEMENT.  |  |  | >                     |
| HOSE VE                 | r L T V C                     | <u>3 1445</u>   | HOIES NOE  | V7 KEPIA   | CEIVIER IS   |  |  |                       |

3"

# SITE OBSERVATION REPORT

| Stantec  | Project:<br>Contractor:<br>Owner:<br>Location:    | 3485 Ravers<br>COP/STANT<br>RENTON UNE  | EC.  | File No.<br>Project No.<br>Project No.<br>Date:<br>Page | Junte 8, 2009.        |
|--|---|---|--|---|-----------------------|
| 14:20  | MOB TO<br>ANRIVE<br>HOBP                          | ON SITE, HEAT STRES   | s a concer   | n   | A11-IN TO TP          |
| 14:37<br>14;45<br>140:30<br>15:01  | CONFINM<br>OWLY SI<br>REFET S                     | ✓ NEED MONE<br>Drawns upons<br>Access For ca<br>GIE (ONE) UPON<br>TSTEM:<br>OPENATIONAL PAN                 | ARPZIUAN<br>NBOW C/WT.<br>Man AUAilloli                                | 2 TINE RELIEVA  |                       |
| 15:25  | DÍSCOMPLET<br>TAPED HI<br>CALI F                  | TOR READINGS<br>HOLES IN<br>NOS WITH EIGCT<br>RE WITH UPPA  | FILAL TAPE FOR   | TEMPURAN +  | FIX.<br>MI HOZE       |
| (5:39  | * cov<br>CA<br>* Fi<br>* Sc<br>* Re<br>& Ri       | FIRM ALLESS /<br>2BON C/OUT<br>ITER SAMPLE<br>IN DRUMS B<br>PLACE SVE WEST<br>EPLACE COMPNESS<br>PRATE SIGN | (TENTATIVE<br>DTIK REQUINA<br>H20 ON SIZE<br>EL H0555 R =<br>M H0500 * | G/23/04)<br>ED (WED)<br>3"                              | INIGENSUI RAUD TEELE. |
| $   \begin{array}{c}     15: & 15 \\     15: & 52 \\     15: & 52 \\     16: & 15 \\     16: & 15 \\     16: & 22 \\     16: & 30 \\     13: & 20 \\   \end{array} $ | PHONSE I<br>CD GOT<br>CAIL-JW<br>PACIL-WP<br>SIGN | E, MOB TO OF  | EFCC: ST<br>OSE DEPUTCENTE<br>CC: NEAN A<br>E PPE<br>FICC,             | tstem stat  | w5.                   |
|  |   |   |  |   |                       |

SECOR PN: 01CP.03485.45

6/17/09 Date:

Time: 14:40

Inspected By: L. RAWLING

|   |  | General  | Site Status  |   |                    |  |                    |   |
|---|--|--|--|---|--------------------|--|--------------------|---|
| Motor Control Center checked for swit status and that panels are closed | ch   |  | Hoses Inspec<br>Comments:  | ed (yes/no):  |                    |  |                    |   |
| Flow meters checked for operation and                                   | leaks  | 9FF<br>NG  | Tanks inspec   | ed for leaks, b   | io-growth          |  | NO                 |   |
|   |  | SVE  | System   |   |                    |  |                    |   |
| Operating on Arrival (Y   | es/No):  | YES  |  | Operati   | ng on Departur     | e (Yes/No):  | Y25                | · · · · · · · · · · · · · · · · · · ·   |
| If No, what alarms shut system down:                                    | the second s |  | and a subsection of the second descent of the  |   |                    |  | 1                  |   |
| System Readi  | nin di sini ku da ka   |  |  | Quarter   | y Maintenanco      | Items  |                    |   |
| Hour Meter Reading (hrs) 4280.  | . (  | 13051.9  | Add/Change   | oil in SVE blo  | wer (yes(no))      | ,  | ULL OT             |   |
| Hour Meter Reading (hrs) 4280.<br>+ [8771, 7                            | 7  |  |  | r in KO Drum  |                    | <del>ر</del> ،   | 26/18              |   |
| Influent Air Temperature  |  | -150   | Check Float  | Switch in KO o  | irum NO            | C  | 16                 | i   |
| Initione zer zompolitatio   |  |  |  | Wells curren  | tly being extra    | cted from  |                    |   |
| Total Vacuum Reading (in. H2O)  |  | 33   | Well   | Extracting<br>(air/water)   | Vacuum (in<br>H20) | Delivery<br>Pressure   | VOCs at well (PID) |   |
| Total Flowrate (scfm)   |  | 196  | RW-2   | AIR   | 2.6                | Construction of the second sec | //                 |   |
|   |  |  | RW-3   | in  |                    |  | $h \wedge$         |   |
| SVE VOCs (PID)(ppm)   |  | 51.2   | RW-7   |   |                    |  | 1.85 - 1.5 L       | -   |
|   |  | NW   | LAI-4  | AIR   | 24                 |  |                    | -   |
| Air stripper effluent VOCs (PID)(ppm                                    | ) '  | ,,,,,,   | LAI-5<br>LAI-6   | AIR   | 25                 | ۵۵ المراج ( ۲۵۵۳ ماری و ۲۵۵ ماریک میلی)<br>۱۹۹۵ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰   |                    |   |
| Influent total VOCs (PID)(ppm)  |  | 11.0   | LAI-0  | AIR   | 24                 | -2   |                    |   |
|   |  | 9 Mart 19 10 - 19 10 - 2 Mart 19 10   | LAI-8  | AIR   | 28                 | · · · · · · · · · · · · · · · · · · ·  |                    | ST. TO CZAC   |
| Effluent total VOCs (PID)(ppm)  |  | 0.0  | LAI-9  | AIR   | 30                 | Natural State of State of State of State   |                    | CRACKING  |
| BTWC1, BTWC2  |  | 13.9/14.8  | HW-1E<br>HW-1W   |   |                    | مانيندي برياني مارين ميروني بريم.<br>ويرين ميروني برياني مارين مارين مارين مارين مارين مارين مارين مارين مارين ما<br>والاي الاي مارين ما   |                    |   |
| B1 weit, B1 wez   |  | η<br>Water Tro   | atment Syste   |   |                    |  |                    |   |
| Operating on Arrival (Y   | es/No)   | NO.  |  |   | ting on Departu    | re (Yes/No):   | NO                 |   |
|   |  |  | LIOUS  | NOTES   |                    | and a second of the second   |                    |   |
| If No, what alarms shut system down<br>System Readi                     |  |  | 1003   |   | ly Maintenanc      | e Items  |                    | 1   |
| Hour Meter Reading (hrs)  |  |  | Check press  | are relief valve  | operation in ai    | Ī  |                    |   |
| Alarm Hours (in panel digital display)                                  | )  |  | compressor   | (yes/no)  |                    |  |                    |   |
| Air stripper vacuum (in H2O)  |  |  | Manually_d   | ain water in air  | r compressor tai   | nk (yes/no)  |                    | N. C. LA C. |
| Pressure on Carbon vessel (psi)   |  |  |  |   |                    | ×- · · · /   |                    | -   |
| Storage tank oil level (water/product)                                  |  | <u>ft</u> ft   |  |   |                    |  |                    |   |
| Pressure on filter housing (psi)  |  |  |  | ripper (yes/no  |                    |  |                    | <b>-</b>  |
| Air stripper influent flow meter (gal)                                  |  |  |  | n air compress  |                    | a(no)  |                    | -   |
| Air stripper influent flow rate (gal/min                                | 1)   |  | the second se  | States and stat | dge buildup (ye    | 5/HO)  |                    | -   |
| Air stripper effluent flow meter (gal)                                  |  |  | the second s | etention pond (   |                    | u(n)   |                    | 1   |
| ATT stripper effluent flow rate (gal/min                                |  |  | and management of the second secon  |   | alve operating (   |  |                    | -   |
| Air Samples SVE INF A   | S EFF  | Total Inf  | Mid 1  | Mid 2   | Total Eff          | and a second sec | Discharge          |   |
|   | lg. BTEX   | TPHg. BTEX   | TPHg. BTEX   | TPHC. BTEX  | TPHe BTEX          | -  | mit No.            |   |
| Sample Time   | station and the  | and the second |  |   |                    | Carlos   | 9648               |   |
| Water Samples Total Inf Pc  | ost AS   | Mid  | То   | tal Eff   |                    | -  | ounty Metro        |   |
| A malaising (Internet and The State                                     | ad. BTEX   | TPHg. BTEX   | TPHg&  | d. BTEX, PH   |                    | ] Discharg   | e Permit No.       |   |
| Analysis TPHead BTEX TPHe<br>Sample Time                                |  |  |  |   |                    |  | )57-01             |   |

Renton OM Form (5-20-08).xls

SITE OBSERVATION REPORT 3485 File No. Project: Project No. Contractor: COP Project No. Date: My Tons 15, 2009 Owner: RENTON, WA Location: Stantec of \_\_\_\_ Page Mostly SUNNY ~77°F L. Rawlins on-site, sign in at office and text R. Fetterly (PM), and M. Tolley. Move truck into 12:30 position, put on P.P.E, set up delineation and review HASP/salety. Completed hasp/safety, took photos of tires 14:40 that impede access to carbon vessels. Calibrated PID and set up for upor samples check. \* Need new gaskets 4" for carbon vessel hoses. 14:45 Completed upor check Taking system readings 17:10 Getting readings in tank farm and checking 15:20 lines. \* Hoses are 4" (all weather tank truck drop hose WB 65PSI; KANAFI FX) Bad warping of compressed ain line on berm 15:40 After tallding with P.M. and getting ok Turned off system, took hose off 16:00 between carbon 2' and 3, cut off area with leak and put back on nipple and tightened clamp. Hose on other end did the same Turned system back. on. There is some air getting 64 as this is not the correct hose and is pierced too easily by clamp. Taped and around nipples, and also clamp for fix until new hose over is received \* SVE carbon hose to let 18 ~ 15" (3) for rect of VE carbon. Packing equipment. On Thurs. measure hoses 16:30 for compressed air and SVE on wells where hose is needed. L. Rawlins off-site L. Rawlins J.R.him "Rite in the Rain"

556

| SECOR | PN: | 01CP.03485.45 |  |
|-------|-----|---------------|--|
|       |     |               |  |

| Date: 6/18/                              | 09  | · · · ·  | Time: 8:4   | 0             |  | •   | Inspected By:      | L-Ra                                     | wling_                |
|--|---|--|---|---------------|--|---|--------------------|--|-----------------------|
|  |   |  | Gen   | eral S        | Site Status  |   |                    |  |                       |
| Motor Control Cer<br>status and that pan |   | or switch  | 425/0   | 0             | loses Inspecte<br>Comm <i>e</i> nts:   | ed (yes/no):  |                    |  |                       |
| Flow meters check                        |   | on and leaks   | eft war<br>for repl   |               |  | ed for leaks, bi  | io-growth          |  | NO                    |
|  |   |  | A STATE OF A |               | System   | \$  |                    | - 18 A                                   |                       |
| Ope                                      | erating on Arriv  | val (Yes/No):  | YES   |               |  | Operati   | ng on Departui     | re (Yes/No):                             | 425                   |
| f.No, what alarm                         | s shut system o   | down:  |   |               |  |   |                    |  |                       |
|  | System  | Readings   |   |               |  | Quarterl  | y Maintenanc       | e Items                                  |                       |
| Iour Meter Readi                         | ng(hrs) - 4   | 346.1  | 13117   | 91            | Add/Change o   | il in SVE blo   | wer (yes/no)       |  | NOOK                  |
|  | + 8   | +71.8  |   |               | and the second se  | in KO Drum  |                    |  | CHANGE                |
| nfluent Air Temp                         |   | -6-68 7  | 130   | -             |  | witch in KO d   |                    |  | NO                    |
| muent Air Temp                           |   |  |   |               |  |   | tly being extra    | acted from                               |                       |
| fotal Vacuum Re                          | ading (in. H2C  | )  | -   |               | Well   | Extracting  | Vacuum (in<br>H20) | Delivery<br>Pressure                     | VOCs at<br>well (PID) |
| Fotal Flowrate (sc                       | cfm)  |  | 196   |               | RW-2   | (air/water)   | <u>п20)</u>        | r ressure                                | wen (FIL)             |
|  |   |  | Statement Constraint on the   |               | RW-3   |   |                    |  |                       |
| SVE VOCs (PID)                           | (ppm)   |  |   |               | RW-7   | .4<br>  |                    |  |                       |
|  |   |  | - AND THE OWNER OF T | H             | LAI-4  |   | 1                  | /  |                       |
| Air stripper efflue                      | nt VOCs (PID  | )(ppm)   |   |               | LAI-5  |   |                    | <u> </u>                                 |                       |
| (nfluent total VO                        | Ce (PID)(nnm)   |  | 10.6  | ŀ             | LAI-6<br>LAI-7   |   |                    |  |                       |
| nfluent total VO                         | cs (r m)(hhu)   |  | -   | -+            | LAI-8  |   |                    |  | 1                     |
| Effluent total VO                        | Cs (PID)(ppm)   |  | 0.1   | ŀ             | LAI-9  |   |                    |  |                       |
|  | , , , , , , , , , , , , , , , , , , ,   |  | 7.8/3.  |               | HW-1E  |   |                    |  |                       |
| BTWC1, BTWC2                             | 2   |  | 7.8 / 3.4   | 1             | HW-1W  |   |                    |  |                       |
|  |   |  | Water   | Trea          | tment Systen   | a -   |                    |  |                       |
| Op                                       | erating on Arri   | val (Yes/No):  | ND  | ŀ             |  | Operat  | ing on Departu     | re (Yes/No)                              | NO                    |
| If No, what alarm                        | ns shut system  | down:  |   |               |  |   |                    |  | 1                     |
| 1110, White diam                         | the second s  | Readings   |   |               |  | Monthl  | y Maintenanc       | e Items                                  |                       |
| Hour Meter Read                          | ing (hrs)   |  |   |               | Check pressu   | re relief valve   | operation in ai    | ir i                                     |                       |
| Alarm Hours (in J                        | and the second se | splay)   |   |               | compressor (y  |   |                    |  |                       |
| Air stripper vacu                        | ım (in H2O)   |  |   |               | Manually dea   | in water in air   | compressor ta      | nk (ves/no)                              | -                     |
| Pressure on Carbo                        | on vessel (psi)   |  | ~   |               |  |   |                    |  |                       |
| Storage tank oil le                      | evel (water/pro   | duct)  | ft/   | ft            |  |   |                    |  |                       |
| Pressure on filter                       |   |  |   | 4             | Contraction of the local division of the loc | ipper (yes/no)  |                    |  |                       |
| Air stripper influe                      | and the second  |  |   |               |  | air compresso   |                    |  |                       |
| Air stripper influe                      |   | and and the substance of the substance o |   |               | and the second se  | Courses and a state of the stat    | ige buildup (ye    | es/no)                                   |                       |
| Air stripper efflue                      |   |  | <u> </u>  |               |  | ention pond (   |                    | (w/m)                                    | +                     |
| Air stripper efflue                      |   | Contraction of the second s  |   | กลายมามหารส่ง |  | COMPANY AND DESCRIPTION OF A DESCRIPTION OF<br>A DESCRIPTION OF A DESCRIPTION | alve operating (   |  |                       |
| Air Samples                              | SVE INF   | AS EFF   | Total Inf   |               | Mid 1  | Mid 2   | Total Eff          | 1  | Discharge             |
| Analysis                                 | TPHg. BPEX  | TPHg. BTEX   | TPHg. BTE   | х .           | TPHg. BTEX   | TPHg. BTEX  | TPHg. BTEX         | •  | mit No.               |
| Sample Time                              |   |  |   |               | 1.00.100.0001111000.000.000  | 1 70.00   |                    | an a | 9648                  |
| Water Samples                            | Total Inf   | Post AS  | Mid   |               |  | al Eff  |                    | -  | ounty Metro           |
|  |   | TPHg&d. BTEX   | TPHg. BTEX  | <             | TPHg&d.  | BTEX, PH  |                    | _ Discharg                               | e Permit No.          |
| Analysis<br>Sample Time                  | TPHg&d. BTEX  | 111111111111111111111111111111111111111  |   |               |  |   |                    | 1. 10                                    | )57-01                |

Renton OM Form (5-20-08).xls

SITE OBSERVATION REPORT 3485 File No. Project: Project No. Contractor: COP Project No. Owner: Date: JUNE 18,2009 Renton, WA Location: Stantec Page 2. Rawlins on-site, Text P.M and M.T. Signed in at office and verified scheduled 8:00 carbon ge change with operator. Move truck into position. Put on PPE, set up delineation and review WASP/sapety 8:25 8:44 Begin; Porpose, vapor check and measure hoses a) compressed air line b) damaged hose any other hoses of concern found Vapor check complete. Temporarily woond tape 9:15 around clamps of hose bytwo carbon 2+3 heard a slight soction, new hose arriving on Monday Jone 22 2009. Checking SVE blower Appears good bot could use oil change. 9:20 Begin set up for measuring hoses. · compressed air line rough measurement is 71' line is soft curves from compressor to regulator at "trough" the red 34" hose is 25' (200 psi rated) (rubber"). wells SUE hoses: LAI 8 ~ 7.5 ' ~ 20.0 ' LAI 9 hose appears ole missing LAI 4 clamp ۹ LAI 7 o.k 5 OK. LAL ok RW2 has enough extra hose if cracking begins near nipple/clamp 2 RW area, to adjust. 10:40 Talked to A. Larson about safety issues Walked compound again. Hose from Influent is beginning to crack. Mon 6/22/09 with a 10:50 second person will get measurement. also of other system compound hoses L. Rawling Z\_ R

SITE OBSERVATION REPORT 3485 File No. Project: Project No. Contractor: COP Project No Owner: Renton, W.A 18 June Date: Location: Stantec Page of P.P.E text defineation ; 11:10 Remove ρ M office Sign MT and T.P 00 11:30 off site L. Rawlins ľ 5

3485 File No. Project: Project No. Contractor: COP Project No. Owner<sup>.</sup> RENTON, WA Date: JONE 22 2009 Stantec Location: Page Cloudy ~65 Onsite L. Rawlins and M. Jolley 7:00 Left site to pick up hoses at Grainer Back on-site review hasp/safety after putting on P.E. Text P.M. 7:15 8:10 Shut down power to system Purpose today is carbon change and to replace hoses. Will also clean out storage shed. Begin working 8:15 on hases first. 9:10 Hillard (ccs) on site, M.T. gave safety 9:30 Siemens on site equir M.T. called in a near miss for sharps, band clamps when cut M.T gave hasp/safety review. Siemens set up firuck and delineated area 9:30 Begin first carbon vessel. 10:20 \* Note: Called A. Swift from CCS, only 6,000 lbs of new carbon should have been 9,000 lbs. Gives us only enough to fill 3 of the five vessels (ix001bs each). My documentation shows 9,000 that I. Rawlins filled out. 0:45 Will bring carbon for remainder on June 24. All five vessels will be vacid and packed 13:00 Three of the vessels have been vacid out. 14:45 Left message with A. Swift Siemens is saying not approved to take waste, need to talk to A.S. to verify. Details were supposedly complete. Spent carbon will be picked up on Wed 6/24/09 when last two vessels are filled. Through out day M.T and I took turns overseeing while the other sworked on 15:00 hose connects 2) clean shed 3) replace filters on Knock-out drum. L Rawlins

SITE OBSERVATION REPORT 3485 File No. Project: Project No. Contractor: COP Project No. Owner: June 22, 200 9 4 RENTON Date: Location: Stantec off\_ Page Mostly cloudy ~760 Three droms filled with new carbon Two 15.30 spare vessels were vacial out 1600 ressel back into position started moving 4020 6/24/09 for fill 16 30 System vessel being replaced Restarted system, CCS and Siemens 1655 atio-270 test PID readings vac 30 17:25 Taking 290 0.0 B2 \$ B3 0.0 B1r2 0.3 inf 25.6 Matt loading garbage from shed and taking to I trach, Will clean up and to J taking Jup trucks to office to sign out. 30 17:55 mit officite L. Rawlins I. Ruha

SITE OBSERVATION REPORT 3485 File No. Project: Project No. Contractor: COP Project No. Owner: Date: JUNE 25,2009 RENTON, WA Stantec Location: Page 1 of 2 Cloudy ~ 62°F L. Rawlins on-site. Text M. Tolley, C. Godak 7:10 and R. Fetterly (P.M) on-site Purpose vapor samples and system check. Honked horn, gate not opening Now opening. 7:25 Pull truck by compound, put on PPE, set up 7:35 delineators and review HASP/safety. Talk to M.T about carbon event 6-24-09 and Hillard from CCS. 8:10 Set up equipment and begin 0+m/sampling. Air campling done and that equipment packed up. Taking system readings Measuring hoses and take tank farm 9:00 9:05 readings. 3" main SVE line from PVC on bern to KO drum (sample hose) ~61' -cracked 4" hose from KO to SVE ~ 36' - UV damage LAI-9 3" -29' cracked LAI-4 added band clamp RW-2 hose in good shape, has ~36' spare section can use for replacement for 441-9 \* will discuss with P.M. Found an unattack hose ~21' in length be hind tank 2 LA1-8 -75' \* Possible RW-2 extra Lose for LAI-9 unattacked hose for LAI-8 9.45 Back in main area, readings and measurements complete Will shut dow system and push Lose further on nipple at svill. Will need help cannot pull have and push at same time, too heavy. Going to office and sign out, after filling out COC, 10:00 1 J. Rawlins J. Ruchin "Rite in the Rain".

W.

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3485 File No. Project: Project No. Contractor: COP Project No. Owner: Date: 10/25/00 Rearray WA Location: Stantec Page Qf\_ heading to Lab. off-site 10:00 L. Rawlins J. Raulu *[*\*\* gre . • 1 ٠ • .

SECOR PN: 01CP.03485.45

Date: 6/25/09

Time: 8:10

Inspected By: L-Rawlins

| Notor Control Center checked for switch<br>strue and the parks are closed       YES/OK       Comments         Filew metrics shecked for operation and lesks $4 \text{ per}^{} 0 \text{ off}^{}$<br>$28 \text{ birst}^{}$ Traiss interpreted for locks, bit-growth       AD 0         Strue and the parks are closed       YES/OK       Switch strue and the parks bit-growth       AD 0         Strue and the parks are closed       YES       One and go the particle (Yes/Not);       No 0         Strue and the parks are closed       Switch Readings       One and go the particle (Yes/Not);       No 0         Mour Meter Reading (ins)       440 (Linge oil in SVE blower (Yes/not);       300/0c;         Total Vacuum Reading (in H2O)       32       Well (advised for and the parks well (PD);         Total Vacuum Reading (in H2O)       32       Well (advised for and the parks well (PD);         Total Flowrate (sefm)       19.6       RW-2       AV       AV         SVE VOCs (PID)(ppm)       69.6       RW-2       AV       AV       AV         Air enprer effluent VOCs (PID)(ppm)       15.0       LAI-5       AV       AV       AV       AV       AV       AV       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C   |   |                 |  | Genera   | ll Site Status  |   |  |               |   |   |                |
|--|---|-----------------|--|--|---|---|--|---------------|---|---|----------------|
| Flow meters effected for operation and leaks     f ∉ F<br>K € SK     Tanks imposed for leaks, bio-growth     N C       Operating on Artival (Y ∈ No:<br>If No, what alarns shut system down:     SNE System     Operating on Departure (Y ∈ No):       If No, what alarns shut system down:     System Readings:     Quarterly Maintenance Isoms       Sover Readings:     Quarterly Maintenance Isoms       Hour Meter Reading (Ins)     475 C ⋅ 3<br>4dd/Change oil in SVE blower (vestion)     Mol Oc       Total Flowmate (sefin)     125     Check Float Swith in No drum     YE ≤       Total Flowmate (sefin)     196 R.W-2     Avail     22       Influent Iotal VOCs (PID)(ppm)     69.6     RW-3     No RW-3       Air stripper effluent VOCs (PID)(ppm)     15.0     LAI-5     Avil:     27       Influent Iotal VOCs (PID)(ppm)     0.0     LAI-5     Avil:     27     1003 C       Effluent Iotal VOCs (PID)(ppm)     0.0     LAI-5     Avil:     27     1003 C       Effluent Iotal VOCs (PID)(ppm)     0.0     LAI-5     Avil:     27     1003 C       Marter Reading (In: B/O)     0.0     D     LAI-5     Avil:     27     1003 C       Key Coll     0.0     D     LAI-5     Avil:     27     1003 C       Key Coll     0.0     D     CAI-5     Avil:     27 <th></th> <th></th> <th>or switch</th> <th>YES/OK</th> <th></th> <th>ted (yes/no):</th> <th>Y25</th> <th></th> <th></th> <th></th> <th></th>   |   |                 | or switch  | YES/OK   |   | ted (yes/no):   | Y25  |               |   |   |                |
| SWE System         Operating on Arrival (Yes/No):       YES       Operating on Departure (Yes/No):         If No, what alarns shut system down:       System Reading:       Quarterly Maintenance Items         System Reading (ms)       4500 cs.       Add/Change oil in SVE blower (yes/no)       N20/0c         Influent Air Temperature       12       Maintan filter in KO Drum (yes/no)       YES         Total Vacuum Reading (in: H2O)       3.2       Weil       Extracting       Vacuum (in)       Pressure       V00 s a         Total Plowrate (sefm)       IP       69.6       RW-2       Arr.       2.2       N00 s o         SVE VOCs (PID)(ppm)       69.6       RW-3       14       Avr.       2.2       N00 s o         Influent total VOCs (PID)(ppm)       IS-0       LAi-6       Avr.       2.7       N00 s O         Influent total VOCs (PID)(ppm)       IS-0       LAi-6       Avr.       2.7       N00 s O         Influent total VOCs (PID)(ppm)       IS-0       LAi-8       Avr.       2.7       N00 s O         Influent total VOCs (PID)(ppm)       IS-0       LAi-8       Avr.       2.7       N00 s O         Water Treatment System       0.0       Operating on Departure (Yes/No)       NO       NO       NO<  | Flow meters check   | ed for operatio | on and leaks   | C. V   | Tanks inspec  | ted for leaks, b  | io-growth  |               | NO                                      |   |                |
| If No., what alarms shut system down:       Quarterly Maintenance Items         System Readings       Quarterly Maintenance Items         Hour Meter Reading (inst. 4/50%-13)       Add/Change oil in SVE blower (yes/no)       XJO/DC         Influent Air Temperature       12-5       Check Float Switch in KO drum       XJC Si         Total Vacuum Reading (in. H2O)       3.2       Well       Extracting       Vacuum (in Pelvery       VOCs at well (in/water)         Total Flowrate (sefin)       I.9.6       RW-2       Avz. 2.5       IP       VOCs at well (in/water)       Vocs at well (in/water   |   | -               |  |  | E System  |   |  | ŀ             |   |   |                |
| If No. what alarms shut system down:         Quarterity Maintenance Items         Add/Change oil in SVE blower (ves/no)       µ0/bc         Hour Meter Reading (m; 1/50% r3       Add/Change oil in SVE blower (ves/no)       µ0/bc         Influent Air Temperature       12       Maintain filter in KO Drun (ves/no)       µ0/bc         Total Vacuum Reading (n, H2O)       3.2       Well currently being extracting Vocs at H2O)       µc 5         Total Flowrate (sefin)       19.6       RW-2       Arg 2.2       µc 5         SVE VOCs (PID)(ppm)       69.6       RW-7       µc 5       µc 5         Air stripper effluent VOCs (PID)(ppm)       15.0       LAI-6       µc 7       µc 7       µc 7         Influent total VOCs (PID)(ppm)       15.0       LAI-6       µc 7       µc 7 </td <td>Ope</td> <td>rating on Arriv</td> <td>val (Yes/No):</td> <td>YES</td> <td></td> <td>Operati</td> <td>ing on Departu</td> <td>re (Yes/No):</td> <td></td> <td></td> <td></td>   | Ope   | rating on Arriv | val (Yes/No):  | YES  |   | Operati   | ing on Departu   | re (Yes/No):  |   |   |                |
| Hour Meter Reading (Ins.) $4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0$  | If No, what alarm   | s shut system o | lown:  |  |   |   |  |               |   |   |                |
| Indu Meler Reading (In: H2O)       Image: Read  |   | System I        | Readings   |  |   | Quarter   | y Maintenanc   | e Items       |   |   |                |
| I As name in filter in KO Drum (yes/no)Yf 4Influent Air Temperature124Check Float Switch in KO drumYf 5Influent Air Temperature32Wells currently being extracted fromTotal Vacuum Reading (in. H2O)32Well currently being extracted fromTotal Floaratte (sefin)196RW-2AvcSVE VOCs (PID)(ppm)69.16RW-7124Air stripper effluent VOCs (PID)(ppm)15.0LAI-61057.0Influent total VOCs (PID)(ppm)15.0LAI-61057.0Influent total VOCs (PID)(ppm)0.0LAI-8Avg27Effluent total VOCs (PID)(ppm)0.0LAI-8Avg27Watter Treatment System0.0LAI-8Avg27Watter Treatment System0.0HW-1181007.0Watter Treatment System0.0LAI-8Avg27Watter Treatment System0.0LAI-8Avg27Watter Treatment System0.0LAI-8Avg27Watter Treatment System0.0LAI-9Avg24Watter Treatment System0.0Morthly Maintenagec tems1007.0Not of the current of the site of the current of the site of the current of the site of the current of the curent of the curren  | Hour Meter Readi  | ng (hrs)_ 45    | 105.3  |  | Add/Change  | oil in SVE blo  | wer (yes/no)   |               | NO/OK                                   |   |                |
| Influent Air Temperature       Image: Temperature <thimag< td=""><td>·</td><td></td><td>71.8</td><td></td><td>Maintain filt</td><td>er in KO Drum</td><td>(yes/no)</td><td></td><td>YES</td><td>·</td><td></td></thimag<>   | ·   |                 | 71.8   |  | Maintain filt   | er in KO Drum   | (yes/no)   |               | YES                                     | ·   |                |
| Wells currently being extracted from       Total Vacuum Reading (in. H2O)     3.2     Well Extracting Vacuum (in Delivery VOCs at light)       Total Flowrate (sofm)     I.9.6     RW-2     A:xet restrict Vacuum (in Delivery VOCs at light)       Total Flowrate (sofm)     I.9.6     RW-2     A:xet restrict Vacuum (in Delivery VOCs at light)       SVE VOCs (PID)(ppm)     6.9.6     RW-3     Image: Constraint of the second sec   | Influent Air Temp   |                 | 10-08  | 125  | Check Float   | Switch in KO  | drum   |               |   |   |                |
| Total Vacuum Reading (n. H2O)       S.Z.       Well       Extracting (Vacuum (n. Delivery VOCs at well (PD))         Total Flowrate (sefm)       I96       RW-2       Avx       Z       Well (airwater)       H20)       Pressure well (PD)         SVE VOCs (PID)(ppm)       69.6       RW-3       I       Avx       Z       Avx       Avx       Z       Avx       Av   | minuent / mi / emp  |                 |  | ~ ~  |   | Wellis currer   | tly being extr   | acted from    |   |   |                |
| Total Flowrate (sefm)       19.6       RW-2       Av2       2.5       HOS FO         SVE VOCs (PID)(ppm)       69.6       RW-7       Av3       HOS FO       Av5 FO         Air stripper effluent VOCs (PID)(ppm)       LA1-4       Av2       2.7       HOS FO       HOS FO         Influent total VOCs (PID)(ppm)       15.0       LA1-6       HOS FO       HOS FO       HOS FO         Effluent total VOCs (PID)(ppm)       0.0       LA1-8       Avg       17       HOS FO       Ckk FO         BTWC1, BTWC2       0.0       0.0       HW-1B       Ckk FO       Ckk  | Total Vacuum Rea  | ading (in. H2O  | )  | 32   | Well  | Extracting  | Vacuum (in   | Delivery      |   |   |                |
| Total it (Winde (extin))       FW-3       FW-3       FW-3         SVE VOCs (PID)(ppm)       EA1-4       A 102       2.4       FW-3         Air stripper effluent VOCs (PID)(ppm)       EA1-5       A 102       2.4       FW-3       FW-3         Influent total VOCs (PID)(ppm)       I.A1-6       AW       2.7       FW-3       FW-  |   |                 |  | 196  | DNV 0   |   | 1  | Pressure      |   | HOSEC   | ic             |
| SVE VOCs (PID)(ppm)       69.6       RW-7       Average of the strength nest of the strength of the strengthened the   | 1 otal Flowrate (sc   | un)             |  | ¥  |   | Imic  |  |               | 10                                      | 1   | -              |
| Air stripper effluent VOCs (PID)(ppm)       LAI-4       A it2       27   | SVE VOCs (PID)  | (nnm)           |  | 69.6   |   | +   |  |               | $\bigvee$                               | 1   | 620            |
| Air stripper effluent VOCs (PID)(ppm)       IAI-5       A.W.       2.2   |   | (Ppm)           | · · · · · · · · · · · · · · · · · · ·  |  |   | AIR   | 27   |               |   | HOSE  | 0K             |
| Influent total VOCs (PID)(ppm)       IS.0       LAI-6       Influent total VOCs (PID)(ppm)       IS.0       LAI-6       Influent total VOCs (PID)(ppm)       IS.0       LAI-8       Avg. 27       IS.0       ICAI-8       Avg. 27       IS.0       ICAI-9       Avg. 27       IS.0       IS.0 </td <td>Air stripper efflue</td> <td>nt VOCs (PID)</td> <td>)(ppm)</td> <td>of the second /td> <td>LAI-5</td> <td>and the second se</td> <td>and the second /td> <td>Deservation -</td> <td>. <b>Glassic</b>entr</td> <td>HOSE</td> <td>OK</td>   | Air stripper efflue   | nt VOCs (PID)   | )(ppm)   | of the second  | LAI-5   | and the second se | and the second | Deservation - | . <b>Glassic</b> entr                   | HOSE  | OK             |
| Influent total VOCs (PID)(ppm)       CAI-7       Aix 22       Cex         Effluent total VOCs (PID)(ppm)       Co       LAI-8       Aix 27       Cex         BTWC1. BTWC2       O O // Co       HW-1E       Cex       Cex         Water Treatment System         Operating on Arrival (Yes/No):       DO         Motol (Yes/No):       DO         Operating on Arrival (Yes/No):       DO         System Readings         Motol (Yes/No):         Motol (Yes/No):         Departing on Departure (Yes/No):         If No. what alarms shut system down:       MOTOX AND FLOWMETTR ON OR OF DEPART         Motol (Yes/No):         Manually drain water in air compressor tank (yes/no) <td>· · · · · · · · · · · · · · · · · · ·</td> <td></td> <td></td> <td>IED</td> <td>and the second sec</td> <td>· • • • • • • • • • • • • • • • • • • •</td> <td></td> <td></td> <td>*******</td> <td></td> <td></td> | · · · · · · · · · · · · · · · · · · ·   |                 |  | IED  | and the second sec  | · • • • • • • • • • • • • • • • • • • •   |  |               | *******                                 |   |                |
| Effluent total VOCs (PID)(ppm)       O.O       LAI-9       A M       2%       CPK         BTWC1, BTWC2       O.O//O.O       HW-IE       HW-IE       CPK       CPK         Water Treatment System         Operating on Arrival (Yes/No):       DO       Operating on Departure (Yes/No):       CPK         Mottor AND FLOWMATER ON ORDER         System Readings         Monthly Maintenance Items         Monthly Maintenance Items<   | Influent total VOC  | Cs (PID)(ppm)   |  | 13.0   |   |   |  |               |   | HOSEC   | K<br>Dane      |
| Effluent total VOCS (PID)(ppm)       EAPS       A ML       ZS       Check         BTWC1, BTWC2       0 0 // 0 0       HW-1W  |   |                 |  | 0.10   |   |   |  |               |   |   | 12120          |
| BTWC1, BTWC2       O O O O O O HW-IW         Water Treatment System         Water Treatment System         Operating on Arrival (Yes/No):         DO       OPerating on Departure (Yes/No):         DIF No. what alarms shut system down:       MOTOR       AND       FLOWMATTR       ON       OR DER         System Readings         Monthly Maintenance Items         Mour Meter Reading (hrs)         Check pressure relief valve operation in air<br>compressor (yes/no)         Air stripper vacuum (in H2O)       Manually drain water in air compressor tank (yes/no)         Pressure on Carbon vessel (psi)       Chean Air Stripper (yes/no)         Storage tank oil level (water/product)       ftl         Air stripper influent flow meter (gal)       Change oil in air compressor (yes/no)         Air stripper influent flow meter (gal)       Chack settling tank for sludge buildup (yes/no)         Air stripper effluent flow meter (gal)       Product in retenuon pond (yes/no)         Air stripper effluent flow meter (gal/min)       Air compressor scionoid valve operating (y/n)         Air stripper effluent flow rate (gal/min)       Air compressor scionoid valve operating (y/n)         Air stripper effluent flow rate (gal/min)       Air compressor scionoid valve operating (y/n)         Air stripper e   | Effluent total VOC  | Cs (PID)(ppm)   |  |  |   | AIR   | 28   |               |   | CIEC  | and the second |
| Water Treatment System         Operating on Arrival (Yes/No):         Description       DO       Operating on Departure (Yes/No):         If No, what alarms shut system down:       MOTOR       AND       FLOWMATTR       OA       OR DEC         System Readings       Monthly Maintenance Items         Hour Meter Reading (hrs)       Check pressure relief valve operation in air         Alarm Hours (in panel digital display)       Check pressure relief valve operation in air         Alarm Hours (in panel digital display)       Check pressure relief valve operation in air         Alarm Hours (in panel digital display)       Check pressure relief valve operation in air         Alarm Hours (in panel digital display)       Check pressure relief valve operation in air         Alarm Hours (in panel digital display)       Check pressure relief valve operation in air         Alarm Hours (in panel digital display)       Check pressure relief valve operation in air         Alarm Hours (in panel digital display)       Manually drain water in air compressor tank (yes/no)         Storage tank oil level (water/broduct)       ft       ft         Pressure on filter housing (psi)       Clean Air Stripper (yes/no)       Product in retention pond (yes/no)         Air stripper enfluent flow meter (gal)       Air compressor selonoid valve operating (y/n)         Air stripper effluent flow me   | BTWC1 BTWC2   |                 |  | 0.0/0.0  | 5   |   |  |               |   | -   |                |
| Operating on Arrival (Yes/No):       DO       Operating on Departure (Yes/No):         If No, what alarms shut system down:       MOTOR AND FLOWMETER ON ORDER         System Readings         Motor AND FLOWMETER ON ORDER         Monthly Maintenance Items         Alarm Hours (in panel digital display)         Check pressure relief valve operation in air compressor (yes/no)         Alarm Hours (in panel digital display)         Alarm Mours (in panel digital display)         Alarm Hours (in panel digital display)         Change oil in air compressor (yes/no) <td>BT WOL, BT WOL</td> <td></td> <td></td> <td>H<br/>Water Tr</td> <td>entment Syste</td> <td>m</td> <td></td> <td></td> <td></td> <td></td> <td></td>  | BT WOL, BT WOL  |                 |  | H<br>Water Tr  | entment Syste   | m   |  |               |   |   |                |
| If No. what alarms shut system down:       MOTOR       AND       FLOWMETER       ON       ORDER         System Readings         Monthly Maintenance Items         Monthly Maintenance Items         Hour Meter Reading (hrs)         Check pressure relief valve operation in air<br>compressor (yes/no)         Air stripper vacuum (in H2O)       Manually drain water in air compressor tank (yes/no)         Pressure on Carbon vessel (psi)       Manually drain water in air compressor tank (yes/no)         Storage tank oil level (water/product)       ft         ft       Clean Air Stripper (yes/no)         Air stripper influent flow meter (gal)       Check settling tank for sludge buildup (yes/no)         Air stripper effluent flow meter (gal)       Product in retention pond (yes/no)         Air stripper effluent flow meter (gal)       Air compressor selonoid valve operating (y/n)         Air samples       SVE INF       AS EFF       Total Inf       Mid 1       Mid 2       Total Eff       Permit No.         sample Time       § '50       \$ '40       § :32       § '20       9648         Water Samples       Total Inf       Post AS       Mid       Total Eff       King County Metro         Analysis       TPHged BTEX       TPHged BTEX       TPHged BTEX,   | One   | erating on Arri | val (Ves/No):  |  | Latinche Syste  |   | ting on Departu  | re (Yes/No)   | :                                       |   |                |
| System Readings       Monthly Maintenance Items         Hour Meter Reading (hrs)       Check pressure relief valve operation in air<br>Alarm Hours (in panel digital display)       Check pressure relief valve operation in air<br>compressor (ves/no)         Air stripper vacuum (in H2O)       Manually drain water in air compressor tank (yes/no)         Pressure on Carbon vessel (psi)       Manually drain water in air compressor tank (yes/no)         Storage tank oil level (water/product)       ft/         ft/       ft         Pressure on filter housing (psi)       Clean Air Stripper (ves/no)         Air stripper influent flow meter (gal)       Check settling tank for sludge buildup (ves/no)         Air stripper effluent flow meter (gal)       Product in retention pond (ves/no)         Air stripper effluent flow meter (gal)       Air compressor selonoid valve operating (y/n)         Air stripper effluent flow rate (gal/min)       Air compressor selonoid valve operating (y/n)         Air stripper effluent flow rate (gal/min)       Air compressor selonoid valve operating (y/n)         Air stripper effluent flow rate (gal/min)       Air compressor selonoid valve operating (y/n)         Air stripper effluent flow rate (gal/min)       Air compressor selonoid valve operating (y/n)         Air stripper flipent flow rate (gal/min)       Air compressor selonoid valve operating (y/n)         Air stripper flipent flow rate (gal/min)       Air compressor selonoid valve  |   |                 |  |  | IND F   |   |  |               |   |   |                |
| Alarm Hours (in panel digital display)       compressor (yes/no)         Air stripper vacuum (in H2O)       Manually drain water in air compressor tank (yes/no)         Pressure on Carbon vessel (psi)       ft         Storage tank oil level (water/product)       ft         ft       ft         Pressure on filter housing (psi)       Clean Air Stripper (yes/no)         Air stripper influent flow meter (gal)       Change oil in air compressor (ves/no)         Air stripper effluent flow meter (gal)       Product in retention pond (ves/no)         Air stripper effluent flow meter (gal)       Air compressor selonoid valve operating (y/n)         Air stripper effluent flow rate (gal/min)       Air compressor selonoid valve operating (y/n)         Air stripper effluent flow rate (gal/min)       Air compressor selonoid valve operating (y/n)         Air stripper effluent flow rate (gal/min)       Air compressor selonoid valve operating (y/n)         Air samples       SVE INF       AS EFF       Total Inf       Mid 1       Mid 2       Total Eff       PSCAA Discharge         Analysis       TPHg. BTEX       TPHg. BTEX       TPHg. BTEX       TPHg. BTEX       9648         Water Samples       Total Inf       Post AS       Mid       Total Eff       Viag County Metro         Analysis       TPHg&d. BTEX       TPHg. BTEX       TPHg. BTEX  | II NO, What alarm   |                 |  | <u> </u>   |   |   |  |               |   | 1   |                |
| Alarm Hours (in panel digital display)       compressor (yes/no)         Air stripper vacuum (in H2O)       Manually drain water in air compressor tank (yes/no)         Pressure on Carbon vessel (psi)       ft         Storage tank oil level (water/product)       ft         ft       ft         Pressure on filter housing (psi)       Clean Air Stripper (yes/no)         Air stripper influent flow meter (gal)       Change oil in air compressor (ves/no)         Air stripper effluent flow meter (gal)       Product in retention pond (ves/no)         Air stripper effluent flow meter (gal)       Air compressor selonoid valve operating (y/n)         Air stripper effluent flow rate (gal/min)       Air compressor selonoid valve operating (y/n)         Air stripper effluent flow rate (gal/min)       Air compressor selonoid valve operating (y/n)         Air stripper effluent flow rate (gal/min)       Air compressor selonoid valve operating (y/n)         Air samples       SVE INF       AS EFF       Total Inf       Mid 1       Mid 2       Total Eff       PSCAA Discharge         Analysis       TPHg. BTEX       TPHg. BTEX       TPHg. BTEX       TPHg. BTEX       9648         Water Samples       Total Inf       Post AS       Mid       Total Eff       Viag County Metro         Analysis       TPHg&d. BTEX       TPHg. BTEX       TPHg. BTEX  | Hour Meter Readi  | ng (hrs)        |  | \  | Check press   | ure relief valve  | operation in a   | ir            | Ν                                       | 1   |                |
| Pressure on Carbon vessel (psi)Manually drain water in air compressor tank (yes/no)Storage tank oil level (water/product)ftftftPressure on filter housing (psi)Clean Air Stripper (ves/no)Air stripper influent flow meter (gal)Change oil in air compressor (ves/no)Air stripper effluent flow rate (gal/min)Check settling tank for sludge buildup (ves/no)Air stripper effluent flow rate (gal/min)Product in retention pond (ves/no)Air stripper effluent flow rate (gal/min)Air compressor selonoid valve operating (y/n)Air stripper effluent flow rate (gal/min)Air compressor selonoid valve operating (y/n)Air stripper effluent flow rate (gal/min)Air compressor selonoid valve operating (y/n)Air stripper effluent flow rate (gal/min)Air compressor selonoid valve operating (y/n)Air samplesSVE INFAS EFFAs EFFTotal InfMid 1Mid 1Mid 2Total EffSample Time% '50% '40SamplesTotal InfPost ASMidTotal EffKing County MetroAnalysisTPHg&d BTEXTPHg&d BTEXTPHg&d BTEXTPHg&d BTEXTPHg&d BTEX, PHDischarge Permit No.  |   |                 | splay)   | 1  |   |   |  |               |   |   |                |
| Pressure on Carbon vessel (psi)       ft       ft         Storage tank oil level (water/product)       ft       ft         Pressure on filter housing (psi)       Clean Air Stripper (yes/no)         Air stripper influent flow meter (gal)       Change oil in air compressor (yes/no)         Air stripper influent flow rate (gal/min)       Check settling tank for sludge buildup (yes/no)         Air stripper effluent flow meter (gal)       Product in retention pond (yes/no)         Air stripper effluent flow rate (gal/min)       Air compressor selonoid valve operating (y/n)         Air stripper effluent flow rate (gal/min)       Air compressor selonoid valve operating (y/n)         Air stripper effluent flow rate (gal/min)       Air compressor selonoid valve operating (y/n)         Air stripper effluent flow rate (gal/min)       Air compressor selonoid valve operating (y/n)         Air samples       SVE INF       AS EFF       Total Inf       Mid 1       Mid 2       Total Eff         Analysis       TPHg. BTEX       TPHg. BTEX       TPHg. BTEX       TPHg. BTEX       Permit No.         Sample Time       % ' 5'*       % ' 4'0       % ' 2'       % ' 2'       9648         Water Samples       Total Inf       Post AS       Mid       Total Eff       King County Metro         Analysis       TPHg&d BTEX       TPHg. BTEX   | Air stripper vacuu  | m (in H2O)      |  |  | - Niene Iles de   | ain motor in oi   | r compressor to  | nk (vecino)   |   |   |                |
| Storage tank oil level (water/product)       ft       ft       ft         Pressure on filter housing (psi)       Clean Air Stripper (ves/no)       Change oil in air compressor (ves/no)         Air stripper influent flow meter (gal)       Check settling tank for sludge buildup (ves/no)       Air stripper effluent flow meter (gal)         Air stripper effluent flow meter (gal)       Product in retention pond (ves/no)       Product in retention pond (ves/no)         Air stripper effluent flow rate (gal/min)       Air compressor selonoid valve operating (V/n)         Air stripper effluent flow rate (gal/min)       Air compressor selonoid valve operating (V/n)         Air stripper effluent flow rate (gal/min)       Air compressor selonoid valve operating (V/n)         Air stripper effluent flow rate (gal/min)       Air compressor selonoid valve operating (V/n)         Air samples       SVE INF       AS EFF       Total lnf       Mid 1       Mid 2       Total Eff       PSCAA Discharge         Analysis       TPHg. BTEX       TPHg. BTEX       TPHg. BTEX       TPHg. BTEX       Permit No.         Sample Time       % '5''       % '14'O       % '2''       % '2''       % '2''       % '2''         Water Samples       Total lnf       Post AS       Mid       Total Eff       King County Metro         Analysis       TPHg&d BTEX       TPHg. BTEX <t< td=""><td>Pressure on Carbo</td><td>on vessel (psi)</td><td></td><td></td><td>ivianually di</td><td>ani watei in ai</td><td>r compressor æ</td><td></td><td></td><td></td><td></td></t<>   | Pressure on Carbo   | on vessel (psi) |  |  | ivianually di   | ani watei in ai   | r compressor æ   |               |   |   |                |
| Air stripper influent flow meter (gal)       Change oil in air compressor (yes/no)         Air stripper influent flow meter (gal)       Check settling tank for sludge buildup (yes/no)         Air stripper effluent flow meter (gal)       Product in retention pond (yes/no)         Air stripper effluent flow meter (gal)       Air compressor selonoid valve operating (y/n)         Air stripper effluent flow rate (gal/min)       Air compressor selonoid valve operating (y/n)         Air stripper effluent flow rate (gal/min)       Air compressor selonoid valve operating (y/n)         Air stripper effluent flow rate (gal/min)       Air compressor selonoid valve operating (y/n)         Air stripper effluent flow rate (gal/min)       Air compressor selonoid valve operating (y/n)         Air stripper effluent flow rate (gal/min)       Air compressor selonoid valve operating (y/n)         Air stripper effluent flow rate (gal/min)       Air compressor selonoid valve operating (y/n)         Air stripper effluent flow rate (gal/min)       Air compressor selonoid valve operating (y/n)         Air stripper effluent flow rate (gal/min)       Air compressor selonoid valve operating (y/n)         Air stripper effluent flow rate (gal/min)       Air compressor selonoid valve operating (y/n)         Air stripper effluent flow rate (gal/min)       As grave flow flow flow flow flow flow flow flow  |   |                 | duct)  | ft\ ft   |   |   |  |               |   |   |                |
| Air stripper influent flow rate (gal/min)       Check settling tank for sludge buildup (yes/no)         Air stripper effluent flow meter (gal)       Product in retention pond (yes/no)         Air stripper effluent flow rate (gal/min)       Air compressor selonoid value operating (y/n)         Air stripper effluent flow rate (gal/min)       Air compressor selonoid value operating (y/n)         Air stripper effluent flow rate (gal/min)       Air compressor selonoid value operating (y/n)         Air samples       SVE INF       AS EFF       Total Inf       Mid 1       Mid 2       Total Eff         Analysis       TPHg. BTEX       TPHg. BTEX       TPHg. BTEX       TPHg. BTEX       TPHg. BTEX       Permit No.         Sample Time       § '50       § '20       § '20       § '20       9648         Water Samples       Total Inf       Post AS       Mid       Total Eff       King County Metro         Analysis       TPHg&d. BTEX       TPHg. BTEX       TPHg&d. BTEX. PH       Discharge Permit No.  | Pressure on filter l  | housing (psi)   |  |  |   | and the second  |  |               |   | _   |                |
| Air stripper effluent flow meter (gal)       Product in retention pond (ves/no)         Air stripper effluent flow rate (gal/min)       Air compressor selonoid value operating (v/n)         Air stripper effluent flow rate (gal/min)       Air compressor selonoid value operating (v/n)         Air Samples       SVE INF       AS EFF       Total Inf       Mid 1       Mid 2       Total Eff         Analysis       TPHg. BTEX       TPHg. BTEX       TPHg. BTEX       TPHg. BTEX       TPHg. BTEX       Permit No.         Sample Time       % '50        % '40       % '2c       % '2c       % '2c       9648         Water Samples       Total Inf       Post AS       Mid       Total Eff       King County Metro         Analysis       TPHg&d. BTEX       TPHg. BTEX       TPHg&d. BTEX       TPHg. BTEX, PH       Discharge Permit No.  |   |                 |  |  |   |   |  |               | <u>}</u>                                | _   |                |
| Air stripper effluent flow rate (gal/min)       Air compressor selonoid valve operating (V/n)         Air samples       SVE INF       AS EFF       Total Inf       Mid 1       Mid 2       Total Eff       PSCAA Discharge         Analysis       TPHg, BTEX       TPHg, BTEX       TPHg, BTEX       TPHg, BTEX       TPHg, BTEX       TPHg, BTEX       Permit No.         Sample Time       % 'SO       % '40       % :2       % '20       % '20       9648         Water Samples       Total Inf       Post AS       Mid       Total Eff       King County Metro         Analysis       TPHg&d BTEX       TPHg, BTEX       TPHg, BTEX       TPHg&d, BTEX, PH       Discharge Permit No.  |   |                 |  |  |   |   |  | es/no)        |   | -   |                |
| Air Samples     SVE INF     AS EFF     Total Inf     Mid 1     Mid 2     Total Eff     PSCAA Discharge       Analysis     TPHg. BTEX     TPHg. BTEX     TPHg. BTEX     TPHg. BTEX     TPHg. BTEX     TPHg. BTEX     Permit No.       Sample Time     % '5°     % '40     % :3<   | and the second se |                 |  | <u> </u>   |   |   |  |               |   | 4   |                |
| Analysis     TPHg. BTEX     Permit No.       Sample Time     8'50     9'40     9:35     9'20     9648       Water Samples     Total Inf     Post AS     Mid     Total Eff     King County Metro       Analysis     TPHg&d. BTEX     TPHg&d. BTEX     TPHg&d. BTEX     TPHg&d. BTEX     TPHg&d. BTEX. PH  | Air stripper efflue   | nt flow rate (g | PROPERTY OF THE REAL PROPERTY OF THE PROPERTY OF T |  | Air compres   | sor selonoid v  | In the second state of the second   | (y/n)         | CARENCE INTO A RECEIPTION OF CONTRACTOR | , in the second s |                |
| Name BirthName BirthName BirthName BirthName BirthName BirthName Birth9648SamplesTotal InfPost ASMidTotal EffKing County MetroAnalysisTPHg&d. BTEXTPHg&d. BTEXTPHg&d. BTEX. PHDischarge Permit No.   | Air Samples   | SVE INF         | AS EFF   | Total Inf  | Mid 1   | Mid 2   | Total Eff  | PSCA.         | A Discharge                             |   |                |
| Water Samples         Total Inf         Post AS         Mid         Total Eff         King County Metro           Analysis         TPHg&d. BTEX         TPHg&d. BTEX         TPHg&d. BTEX. PH         Discharge Permit No.   | Analysis  | TPHg, BTEX      | TPH BTEX   | and the second s |   |   |  |               |   |   |                |
| Analysis TPHg&d. BTEX TPHg&d. BTEX TPHg&d. BTEX TPHg&d. BTEX. PH Discharge Permit No.  | Sample Time   | 8:50            |  | 8:40   | ADD IN COMMENSION OF A DESCRIPTION OF A | and a second second second second second  | 8:20   | -             | 9648                                    | <b>nes</b>  |                |
|  | Water Samples   | Total Inf       | Post AS  | Mid  | Tc  | tal Eff   |  | -             | -                                       |   |                |
|  | Analysis  | TPHg&d. BTEX    | TPHg&d. BTEX   | TPHg. BTEX   | TPHg&   | d. BTEX, PH   |  | -             |   |   |                |
| Sample Time 4057-01  | Sample Time   |                 | and the second   | ·  |   |   |  | 40            | 057-01                                  |   |                |

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TestAmerica

425-420-9200 FAX 420-9210 509-924-9200 FAX 924-9290 503-906-9200 FAX 906-9210 907-563-9200 FAX 563-9210

2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244

11922 E. First Ave, Spokane, WA 99206-5302 9405 SW Nimbus Ave, Beaverton, OR 97008-7145

THE LEADER IN ENVIRONMENTAL TESTING

| Work Order #:           | TURNAROUND REQUEST    | in Business Days * | Organic & Inorganic Analyses | Petroleum Hydrocarbon Analyses | 5 4 3 2 1 <1 | ]                          | OTHER Specify:     | * Turnaround Requests less than standard may incur Rush Charges. | MATRIX # 0F LOCATION/ TA<br>(W. S, O) CONT COMMENTS WO ID | AK 1 3485 WA    | 2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2 |         |               | A12 1 3485 NA      |          |                            |   |    | BULLY WU aNGE FIRMETAL SEATU TIME 1010   | TTIMA                                  | TIME TIME           | - |
|-------------------------|-----------------------|--------------------|------------------------------|--------------------------------|--------------|----------------------------|--------------------|--|---|-----------------|---|---------|---------------|--------------------|----------|----------------------------|---|----|--|--|---------------------|---|
| CHAIN OF CUSTODY REPORT | INVOICE TO:           |                    |                              | P.O. NUMBER:                   | PRESERVATIVE |                            | REQUESTED ANALYSES |  |   |                 |   |         |               |                    |          |                            |   |    | DATE: 6/25/09 RECEIVED BY: COULD VU QUE  | DATE: RECEIVED BY:<br>TIMP: DEPARTMENT |                     |   |
|                         | with the C , C & M    |                    | r Sh                         | N-343- 1600                    |              |                            |                    |  | SAMPLING<br>DATE/TIME                                     | Q               | 830 X X   | 835 X X | 1 8 40 × ×    | C 850 X X          |          |                            |   |    | FIRM: STANTEC  | HIRM                                   |                     |   |
| erge<br>erge            | COF<br>RICK Fettach & | ya)                | 12.034 134th C               | 1                              |              | PROJECT NUMBER: 2123 02150 |                    | SAMPLED BY: L. RAWLINS   | CLIENT SAMPLE SA<br>IDENTIFICATION DA                     | Tot EPP 6/2x/09 | 2 M 19 2  | 3 MIO 1 | A TOT I ANT 4 | PO/SVE INF U/SX/09 | <b>-</b> | ,<br>,<br>,<br>,<br>,<br>, | 6 | 10 | RELEASED BY: L. R. L. | RELEASED BY:<br>PRINT NAME:            | ADDITIONAL REMARKS: |   |

TAL-1000(0408)

# SITE OBSERVATION REPORT

Project: File No. COP/STANTEC Contractor: Project No. RENTIN WA Owner: Project No. JUNE 30 2009 Stantec Location: Date: 11:33 MOD TO SITE FROM SITE ISOF TACOMA Page \_\_\_\_ OF 12:40 ARRIVE OW SITE, NOTIFY TRUCK I AND SITE PM. 12:50 PPE, SIGN-IW & OFFICE. HASP. 13.00 rail pm and SITE CLOSUME FUR HOLIDAY WEEKEND 13:20 SISTEM INSPECTION, CALL FROM PET LE FOR CHEK-IN. 13:30 Call Hilland Fran W: CARBON PLUP NO-WORD FROM CCS ON PICK-MP DATE. 2"D WEER JULY. 13:40 RECURD SYSTEM PARAMETERS. 14:00 CHECK-IN WI CR IN MORECON TO CONFIRM HES Hydrodium, And Obil schedule this Most. 14:24 UNLUAD PUMP & EXTENSION CURD FOR TOTAL SLE VOC READ, WG POST t.O. DRUM, NOTEX GAUGE ON T.G. DRUL NOT SAMPLE LOCATION, NEEDS TO BE REMUTED. 14:30 CALL CN 14:35 INSPECT STONALEE UNIT, VARA READINGS COMPLETER 14:50 DISPOSE OF GARBACE IN Storge Chite. 15: 3 SIUN ON & O GAND WI JON. 15:15 CARISON PLUT MEETING 15:20 our sive, NOVIET AFIA. EN DOVIE TO GRANDER FUN Suppli-For 3455, 1507, 3117 05149. 10 To CEAVE CRAINGER, CALL R. Fetterly, J. Thompson R. Lund, L.R. en rolite him. 12 = 30 HOWE OFFICE.

12 1 12 11

ConocoPhillips - R nton Terminal Remediation System Operation Log 2423 Lind Ave, Renton WA

SECOR PN: 01CP.03485.45

Date: 6/25/09; C/30/09

13.00 Time: \$ 10

Inspected By: L- Rawlins j MT

|  |  |   | The state of  |   |  |  |  |  |
|--|--|---|---|---|--|--|--|--|
|  |  |   | l Site Status   |   |  |  | 120. M (1. 164.) T (1. 1997 T (1. 1997   |  |
| Motor Control Cer<br>status and that pan   | nter checked for switch<br>lels are closed   | 165/DK  | Hoses Inspect   | ed (yes/no):  | YES  | 752  |  |  |
| -low meters check  | ked for operation and leaks  | GFF. ON<br>ORDER  | Tanks inspecte  | ed for leaks, b   | nio-growth   |  | NO, N  | υ  |
|  |  |   | System  | 19 No. 10 No.   |  |  |  | sam viji najo  |
| Ope  | erating on Arrival (Yes/No):   | YESTE   | ÷   | Operati   | ing on Departu   | e (Yes/No):  |  | decise the control of the contro |
| fNo. what alarm  | is shut system down:   |   | 10-10-10-10-10-10-10-10-10-10-10-10-10-1  | an air ann an 1999 ann an 1999 ann ann ann ann ann ann ann ann ann  |  |  |  |  |
| 11.0,  | System Readings  |   | T.  | Quarter   | ly Maintenanc  | e <b>Item</b> s  | an in the two concerns of a state of a state of the state |  |
| Hour Meter Readii  | SECT 2   | 4630.6  | Add/Change o  | oil in SVE blo  | ower (yes/no)  |  | NO/OK  |  |
|  | + [ 8771.8<br>+ [ 870-06   |   | Maintain filter   | r in KO Drum  | (ves/no)   |  | 195  |  |
| Influent Air Temp  |  | 125,148   | Check Float S   | Switch in KO  | drum   | an tan istangan secara an ana se an an   | VES  |  |
| Influent Air 5 onp   | Clature  |   | - management and a second   | Wells currer  | tly being extr   | acted from   | in the second second   |  |
| Total Vacuum Rea   | ading (in. H2O) 30   | 32  |   | Extracting  | Vacuum (in   | Delivery   | VOCs at  |  |
|  |  |   | Well  | (air/water)   | H20)   | Pressure   | well (PID)   |  |
| Total Flowrate (sc   | efm) 210   | 196,  | RW-2  | AIR   | 25   |  |  | HOSE OK  |
|  |  | ia i  | RW-3  | IAC   |  |  |  |  |
| SVE VOCs (PID)   | (ppm) 78,7   | 69.6  | RW-7  |   |  |  |  | ADDED 4  |
|  | ·  | and the contraction constrained   | LAI-4   | AIR   | 27   | yangangan pananan<br>Tanggangan pananan<br>Tanggangan pananan  |  | HOSE OK  |
| Air stripper ettiuer   | nt VOCs (PID)(ppm)   |   | LAI-5<br>LAI-6  | AW  |  | and a second |  | 140-0 01   |
| Influent total VOC   | Cs (PID)(ppm) 10, 🕅  | 15.0  | LAI-0<br>LAI-7  | AIR   | 27   |  |  | HUSCOK   |
|  | 28 (11D)(ppm) 10 i V   |   | LAI-8   | AIR   | 17   |  |  | CRK -OR  |
| Effluent total VOC   | Cs (PID)(ppm) 0.0  | 0.0   | LA1-9   | AIR   | 28   |  |  | CRX  |
| BTWC1, BTWC2   | . 11.5   | 0.0/10.0  | HW-1E<br>HW-1W  |   | Namena gargan yakati kata kata a   |  |  | -  |
| BIWULDIWU2   | <u></u>  | <u> </u>  |   |   |  |  |  |  |
|  | an ann an thairte an th  |   | eatment Systen  | n   |  |  |  |  |
| NAME OF A DESCRIPTION OF A  |  | 0.01  |   | Operat  | ting on Departu  |  |  |  |
| Оре  | erating on Arrival (Yes/No)  | NO  |   |   |  | ON 0   | RDER   |  |
|  |  | and the second se | ND F.   | LOWME   | TER O  | <u> </u>   | <u>ICVIK</u>   |  |
|  |  | and the second se | ND F.   | Contraction of the second s   | TTR (  |  | ICVIK  |  |
| If No. what alarm  | is shut system down:<br>System Readings  | and the second se |   | Month   | ly Maintenanc  | e Items  | <u>N</u>   | -  |
| If No. what alarm<br>Hour Meter Readi  | is shut system down:<br>System Readings<br>ing (hrs)   | and the second se |   | <b>Month</b><br>are relief valve  |  | e Items  |  |  |
| If No. what alarm<br>Hour Meter Readi  | ns shut system down:<br>System Readings<br>ing (hrs)<br>panel digital display)   | and the second se | Check pressu<br>compressor (y   | Month<br>ire relief valve<br>yes/no)  | ly Maintenance   | e Items  |  |  |
| If No. what alarm<br>Hour Meter Readi<br>Alarm Hours (in p<br>Air stripper vacuu   | ns shut system down:<br>System Readings<br>ing (hrs)<br>panel digital display)<br>im (in H2O)  | and the second se | Check pressu<br>compressor (y   | Month<br>ire relief valve<br>yes/no)  | ly Maintenanc  | e Items  |  |  |
| If No. what alarm<br>Hour Meter Readi<br>Alarm Hours (in p<br>Air stripper vacuu<br>Pressure on Carbo  | ns shut system down:<br>System Readings<br>ing (hrs)<br>panel digital display)<br>im (in H2O)  | and the second se | Check pressu<br>compressor (y   | Month<br>ire relief valve<br>yes/no)  | ly Maintenance   | e Items  |  |  |
| If No. what alarm<br>Hour Meter Readi<br>Alarm Hours (in p<br>Air stripper vacuu<br>Pressure on Carbo  | is shut system down:<br>System Readings<br>ing (hrs)<br>banel digital display)<br>im (in H2O)<br>ban vessel (psi)<br>evel (water/product)  | A SIOTOR  | Check pressu<br>compressor (y<br>Manually dra   | Month<br>ire relief valve<br>yes/no)  | ly Maintenance<br>e operation in a<br>r compressor ta  | e Items  |  |  |
| If No. what alarm<br>Hour Meter Readi<br>Alarm Hours (in p<br>Air stripper vacuu<br>Pressure on Carbo<br>Storage tank oil le<br>Pressure on filter l   | is shut system down:<br>System Readings<br>ing (hrs)<br>banel digital display)<br>im (in H2O)<br>ban vessel (psi)<br>evel (water/product)  | A SIOTOR  | Check pressu<br>compressor (y<br>Manually dra<br>Clean Air Str<br>Change oil in   | Month<br>ire relief valve<br>yes/no)<br>im water in air<br>cipper (yes/no<br>n air compress   | y Maintenance<br>e operation in a<br>r compressor ta<br>)<br>for (yes/no)  | e Items r<br>r<br>nk (yes/no)  |  |  |
| If No. what alarm<br>Hour Meter Readi<br>Alarm Hours (in p<br>Air stripper vacuu<br>Pressure on Carbo<br>Storage tank oil le<br>Pressure on filter h<br>Aur stripper influe<br>Air stripper influe   | ns shut system down:<br>System Readings<br>ing (hrs)<br>panel digital display)<br>im (in H2O)<br>phone vessel (psi)<br>evel (water/product)<br>housing (psi)<br>ent flow meter (gal)<br>ent flow rate (gal/min)  | A SIOTOR  | Check pressu<br>compressor (<br>Manually dra<br>Clean Air Str<br>Change oil in<br>Check settiin   | Month<br>ire relief valve<br>yes/no)<br>tin water in air<br>ripper (ves/no<br>h air compress<br>g tank for shu  | ly Maintenance<br>e operation in a<br>r compressor ta<br>)<br>or (ves/no)<br>dge buildup (ve   | e Items r<br>r<br>nk (yes/no)  |  |  |
| If No. what alarm<br>Hour Meter Readi<br>Alarm Hours (in p<br>Air stripper vacuu<br>Pressure on Carbo<br>Storage tank oil le<br>Pressure on filter h<br>Air stripper influe<br>Air stripper influe   | ns shut system down:<br>System Readings<br>ing (hrs)<br>panel digital display)<br>im (in H2O)<br>on vessel (psi)<br>evel (water/product)<br>housing (psi)<br>ent flow meter (gal)<br>ent flow rate (gal/min)<br>ent flow meter (gal)   | A SIOTOR  | Check pressu<br>compressor (<br>Manually dra<br>Clean Air Str<br>Change oil in<br>Check settlin<br>Product in rei   | Month<br>tre relief valve<br>yes/no)<br>tin water in air<br>cipper (yes/no<br>h air compress<br>ig tank for slu-<br>tention pond (  | ly Maintenance<br>e operation in a<br>r compressor ta<br>)<br>or (yes/no)<br>dge buildup (ye<br>(yes/no)   | e Items r<br>r<br>nk (yes/no)<br>es/no)  |  |  |
| If No. what alarm<br>Hour Meter Readi<br>Alarm Hours (in p<br>Air stripper vacuu<br>Pressure on Carbo<br>Storage tank oil le<br>Pressure on filter h<br>Air stripper influe<br>Air stripper influe   | ns shut system down:<br>System Readings<br>ing (hrs)<br>panel digital display)<br>im (in H2O)<br>phone vessel (psi)<br>evel (water/product)<br>housing (psi)<br>ent flow meter (gal)<br>ent flow rate (gal/min)  | A SIOTOR  | Check pressu<br>compressor (<br>Manually dra<br>Clean Air Str<br>Change oil in<br>Check settlin<br>Product in rei   | Month<br>tre relief valve<br>yes/no)<br>tin water in air<br>cipper (yes/no<br>h air compress<br>ig tank for slu-<br>tention pond (  | y Maintenance<br>e operation in a<br>r compressor ta<br>)<br>or (yes/no)<br>dge buildup (ye<br>(yes/no)<br>alve operating                              | e Items r<br>r<br>nk (yes/no)<br>es/no)  |  |  |
| If No. what alarm<br>Hour Meter Readi<br>Alarm Hours (in p<br>Air stripper vacuu<br>Pressure on Carbo<br>Storage tank oil le<br>Pressure on filter h<br>Air stripper influe<br>Air stripper influe   | ns shut system down:<br>System Readings<br>ing (hrs)<br>panel digital display)<br>im (in H2O)<br>on vessel (psi)<br>evel (water/product)<br>housing (psi)<br>ent flow meter (gal)<br>ent flow rate (gal/min)<br>ent flow meter (gal)   |   | Check pressu<br>compressor (<br>Manually dra<br>Clean Air Str<br>Change oil in<br>Check settlin<br>Product in rei   | Month<br>tre relief valve<br>yes/no)<br>tin water in air<br>cipper (yes/no<br>h air compress<br>ig tank for slu-<br>tention pond (  | ly Maintenance<br>e operation in a<br>r compressor ta<br>)<br>or (yes/no)<br>dge buildup (ye<br>(yes/no)   | e Items r<br>r<br>nk (ves/no)<br>s/no)   | A Discharge  |  |
| If No. what alarm<br>Hour Meter Readi<br>Alarm Hours (in p<br>Air stripper vacuu<br>Pressure on Carbo<br>Storage tank oil le<br>Pressure on filter l<br>Air stripper influe<br>Air stripper influe<br>Air stripper efflue  | ns shut system down:<br>System Readings<br>ing (hrs)<br>panel digital display)<br>im (in H2O)<br>on vessel (psi)<br>evel (water/product)<br>housing (psi)<br>ent flow meter (gal)<br>ent flow meter (gal)<br>ent flow meter (gal)<br>ent flow meter (gal)<br>ent flow rate (gal/min)<br>ent flow rate (gal/min)<br>SVE INF AS EFF<br>TPHg. BTEX TPH_BTEX | MOTOR A   | Check pressu<br>compressor ()<br>Manually dra<br>Clean Air Str<br>Change oil in<br>Check settiin<br>Product in rei<br>Air compress<br>Mid 1<br>TPH <sub>2</sub> BTEX    | Month<br>re relief valve<br>yes/no)<br>tin water in air<br>ripper (ves/no<br>h air compress<br>g tank for slu-<br>tention pond (<br>sor selonoid v<br>Mid 2<br>TPHe BTEX                            | y Maintenance<br>e operation in a<br>r compressor ta<br>)<br>or (ves/no)<br>dge buildup (ve<br>(ves/no)<br>alve operating (<br>Total Eff<br>TPHg. BTEX | e Items<br>r<br>nk (yes/no)<br>es/no)<br>(y/n)<br>PSCA4<br>Per   | A Discharge<br>mit Ne.   |  |
| If No. what alarm<br>Hour Meter Readi<br>Alarm Hours (in p<br>Air stripper vacuu<br>Pressure on Carbo<br>Storage tank oil le<br>Pressure on filter l<br>Air stripper influe<br>Air stripper influe<br>Air stripper efflue<br>Air stripper efflue<br>Air stripper efflue  | ns shut system down:<br>System Readings<br>ing (hrs)<br>panel digital display)<br>im (in H2O)<br>on vessel (psi)<br>evel (water/product)<br>housing (psi)<br>ent flow meter (gal)<br>ent flow meter (gal)<br>ent flow meter (gal)<br>ent flow meter (gal)<br>ent flow rate (gal/min)<br>ent flow rate (gal/min)<br>SVE INF AS EFF                        | MOTOR A   | Check pressu<br>compressor ()<br>Manually dra<br>Clean Air Str<br>Change oil in<br>Check settiin<br>Product in rei<br>Air compress<br>Mid 1<br>TPHg. BTEX<br>8:3<       | Month<br>are relief valve<br>ves/no)<br>ain water in air<br>cipper (ves/no<br>a air compress<br>ag tank for slu-<br>tention pond (<br>sor selonoid v<br>Mid 2<br>TPH: BTEX<br><b>g</b> ? <b>3</b> C | y Maintenance<br>e operation in a<br>r compressor ta<br>)<br>or (ves/no)<br>dge buildup (ve<br>(ves/no)<br>alve operating<br>Total Eff                 | e Items<br>r<br>nk (yes/no)<br>es/no)<br>(y/n)<br>PSCA4<br>Per   | A Discharge  |  |
| If No. what alarm<br>Hour Meter Readi<br>Alarm Hours (in p<br>Air stripper vacuu<br>Pressure on Carbo<br>Storage tank oil le<br>Pressure on filter l<br>Air stripper influe<br>Air stripper influe<br>Air stripper efflue<br>Air stripper efflue<br>Air stripper efflue<br>Air stripper efflue   | ns shut system down:<br>System Readings<br>ing (hrs)<br>panel digital display)<br>im (in H2O)<br>on vessel (psi)<br>evel (water/product)<br>housing (psi)<br>ent flow meter (gal)<br>ent flow meter (gal)<br>ent flow meter (gal)<br>ent flow meter (gal)<br>ent flow rate (gal/min)<br>ent flow rate (gal/min)<br>SVE INF AS EFF<br>TPHg. BTEX TPH_BTEX | MOTOR A   | Check pressu<br>compressor ()<br>Manually dra<br>Clean Air Str<br>Change oil in<br>Check settiin<br>Product in rei<br>Air compress<br>Mid 1<br>TPHg. BTEX<br>8:3<       | Month<br>re relief valve<br>yes/no)<br>tin water in air<br>ripper (ves/no<br>h air compress<br>g tank for slu-<br>tention pond (<br>sor selonoid v<br>Mid 2<br>TPHe BTEX                            | y Maintenance<br>e operation in a<br>r compressor ta<br>)<br>or (ves/no)<br>dge buildup (ve<br>(ves/no)<br>alve operating (<br>Total Eff<br>TPHg. BTEX | e Items Fr<br>r<br>nk (yes/no)<br>s/no)<br>y/n)<br>PSCA4<br>Per<br>King C                                      | A Discharge<br>mit No.<br>9648<br>ounty Metro  |  |
| If No. what alarm<br>Hour Meter Readi<br>Alarm Hours (in p<br>Air stripper vacuu<br>Pressure on Carbo<br>Storage tank oil le<br>Pressure on filter l<br>Air stripper influe<br>Air stripper influe<br>Air stripper efflue<br>Air stripper efflue<br>Air stripper efflue<br>Air stripper efflue<br>Air Samples<br>Analysis<br>Sample Time | ing (hrs)<br>banel digital display)<br>im (in H2O)<br>im (in H2O)<br>im (in H2O)<br>in vessel (psi)<br>evel (water/product)<br>housing (psi)<br>ent flow meter (gal)<br>ent flow meter (gal)<br>ent flow meter (gal)<br>ent flow rate (gal/min)<br>ent flow rate (gal/min)<br>SVE INF AS EFF<br>TPHg. BTEX: TPH_ETEX<br>S'30                             | MOTOR A   | Check pressu<br>compressor (<br>Manually dra<br>Clean Air Str<br>Change oil in<br>Check settlin<br>Product in rei<br>Air compress<br>Mid 1<br>TPHg. BTEX<br>8:35<br>Tot | Month<br>are relief valve<br>ves/no)<br>ain water in air<br>cipper (ves/no<br>a air compress<br>ag tank for slu-<br>tention pond (<br>sor selonoid v<br>Mid 2<br>TPH: BTEX<br><b>g</b> ? <b>3</b> C | y Maintenance<br>e operation in a<br>r compressor ta<br>)<br>or (ves/no)<br>dge buildup (ve<br>(ves/no)<br>alve operating (<br>Total Eff<br>TPHg. BTEX | e Items<br>r<br>nk (ves/no)<br>s/no)<br>v/n)<br>PSCA4<br>Per<br>SCA4<br>Per<br>Discharg                        | A Discharge<br>mit Ne.<br>9648   |  |

## ATTACHMENT B REMEDIATION SYSTEM LABORATORY AIR ANALYTICAL REPORTS

ConocoPhillips Company Facility Number 3485 2423 Lind Avenue SW Renton, Washington



THE LEADER IN ENVIRONMENTAL TESTING

April 22, 2009

Linda Rawlins Stantec PO Box 230, 12034 - (134th Ct NE Ste 102, zip 98052) Redmond, WA/USA 98073

RE: COP 3485

Enclosed are the results of analyses for samples received by the laboratory on 04/21/09 14:00. The following list is a summary of the Work Orders contained in this report, generated on 04/22/09 12:55.

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

<u>Work Order</u> BSD0219 Project COP 3485 ProjectNumber 3485

TestAmerica Seattle

and the

Curtis D. Armstrong, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.





#### THE LEADER IN ENVIRONMENTAL TESTING

| Γ | Stantec  | Project Name:    | COP 3485      |                 |
|---|--|------------------|---------------|-----------------|
|   | PO Box 230, 12034 - (134th Ct NE Ste 102, zip 98052) | Project Number:  | 3485          | Report Created: |
|   | Redmond, WA/USA 98073                                | Project Manager: | Linda Rawlins | 04/22/09 12:55  |

### ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled   | Date Received  |
|-----------|---------------|--------|----------------|----------------|
| TOT EFF   | BSD0219-01    | Air    | 04/21/09 10:40 | 04/21/09 14:00 |
| MID 2     | BSD0219-02    | Air    | 04/21/09 10:45 | 04/21/09 14:00 |
| MID 1     | BSD0219-03    | Air    | 04/21/09 10:48 | 04/21/09 14:00 |
| TOT INF   | BSD0219-04    | Air    | 04/21/09 10:50 | 04/21/09 14:00 |
| AS EFF    | BSD0219-05    | Air    | 04/21/09 10:53 | 04/21/09 14:00 |
| SVE INF   | BSD0219-06    | Air    | 04/21/09 11:00 | 04/21/09 14:00 |

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Curtis D. Armstrong, Project Manager

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| Stantec  | Project Name:    | COP 3485      |                 |
|--|------------------|---------------|-----------------|
| PO Box 230, 12034 - (134th Ct NE Ste 102, zip 98052) | Project Number:  | 3485          | Report Created: |
| Redmond, WA/USA 98073                                | Project Manager: | Linda Rawlins | 04/22/09 12:55  |

### Gasoline Hydrocarbons (Benzene to Napthalene) and BTEX in Air by NWTPH-G and EPA 8021B TestAmerica Seattle

|                                   |                   |        | 1000 111 |        |                         |     |         |                |                |       |
|-----------------------------------|-------------------|--------|----------|--------|-------------------------|-----|---------|----------------|----------------|-------|
| Analyte                           | Method            | Result | MDL*     | MRL    | Units                   | Dil | Batch   | Prepared       | Analyzed       | Notes |
| BSD0219-01 (TOT EFF)              |                   | Air    |          |        | Sampled: 04/21/09 10:40 |     |         |                |                |       |
| Gasoline Range Hydrocarbons       | NWTPH<br>Modified | ND     |          | 10.0   | mg/m³ Air               | 1x  | 9D21044 | 04/21/09 14:52 | 04/21/09 18:37 |       |
| Gasoline Range Hydrocarbons (v/v) | "                 | ND     |          | 2.36   | ppmv                    |     | "       | "              | "              |       |
| Benzene (v/v)                     | "                 | ND     |          | 0.0308 | "                       |     | "       |                | "              |       |
| Toluene (v/v)                     | "                 | ND     |          | 0.0261 | "                       |     | "       | "              | "              |       |
| Ethylbenzene (v/v)                | "                 | ND     |          | 0.0227 | "                       |     | "       | "              | "              |       |
| Xylenes, total (v/v)              | "                 | ND     |          | 0.0454 | "                       |     | "       |                | "              |       |
| Benzene                           | "                 | ND     |          | 0.100  | mg/m³ Air               |     | "       |                | "              |       |
| Toluene                           | "                 | ND     |          | 0.100  | "                       |     | "       | "              | "              |       |
| Ethylbenzene                      | "                 | ND     |          | 0.100  | "                       |     | "       |                | "              |       |
| Xylenes (total)                   | "                 | ND     |          | 0.200  |                         | "   |         | "              | "              |       |
| Surrogate(s): 4-BFB (FID)         |                   |        | 79.8%    |        | 57 - 130 %              | "   |         |                | "              |       |
| 4-BFB (PID)                       |                   |        | 99.4%    |        | 65 - 125 %              | "   |         |                | "              |       |
|                                   |                   |        |          |        |                         |     |         |                |                |       |

| BSD0219-02 (MID 2)                |                   | Air |       |        | Sample     | ed: 04/2 | 1/09 10:45 |                |                |
|-----------------------------------|-------------------|-----|-------|--------|------------|----------|------------|----------------|----------------|
| Gasoline Range Hydrocarbons       | NWTPH<br>Modified | ND  |       | 10.0   | mg/m³ Air  | 1x       | 9D21044    | 04/21/09 14:52 | 04/21/09 19:38 |
| Gasoline Range Hydrocarbons (v/v) | "                 | ND  |       | 2.36   | ppmv       |          | "          | "              | "              |
| Benzene (v/v)                     | "                 | ND  |       | 0.0308 | "          |          | "          | "              | "              |
| Toluene (v/v)                     | "                 | ND  |       | 0.0261 | "          |          | "          | "              | "              |
| Ethylbenzene (v/v)                | "                 | ND  |       | 0.0227 | "          |          | "          | "              | "              |
| Xylenes, total (v/v)              | "                 | ND  |       | 0.0454 | "          |          | "          | "              | "              |
| Benzene                           | "                 | ND  |       | 0.100  | mg/m³ Air  |          | "          | "              | "              |
| Toluene                           | "                 | ND  |       | 0.100  | "          |          | "          | "              | "              |
| Ethylbenzene                      | "                 | ND  |       | 0.100  | "          |          | "          | "              | "              |
| Xylenes (total)                   |                   | ND  |       | 0.200  | "          | "        | "          | "              | "              |
| Surrogate(s): 4-BFB (FID)         |                   |     | 77.9% |        | 57 - 130 % | "        |            |                | "              |
| 4-BFB (PID)                       |                   |     | 99.4% |        | 65 - 125 % | "        |            |                | "              |

| BSD0219-03 (MID 1)                |                   | Air    |            | Samp      | led: 04/2 | 21/09 10:48 |                |                |    |
|-----------------------------------|-------------------|--------|------------|-----------|-----------|-------------|----------------|----------------|----|
| Gasoline Range Hydrocarbons       | NWTPH<br>Modified | 62.3   | <br>10.0   | mg/m³ Air | 1x        | 9D21044     | 04/21/09 14:52 | 04/21/09 20:08 | Q1 |
| Gasoline Range Hydrocarbons (v/v) | "                 | 14.7   | <br>2.36   | ppmv      |           | "           | "              | "              | Q1 |
| Benzene (v/v)                     | "                 | 2.43   | <br>0.0308 | "         |           | "           | "              | "              |    |
| Toluene (v/v)                     |                   | 0.0731 | <br>0.0261 | "         |           | "           | "              | "              |    |
| Ethylbenzene (v/v)                |                   | ND     | <br>0.0227 |           |           | "           | "              | "              |    |
| Xylenes, total (v/v)              | "                 | ND     | <br>0.0454 |           |           | "           | "              | "              |    |
| Benzene                           | "                 | 7.87   | <br>0.100  | mg/m³ Air |           | "           | "              | "              |    |
| Toluene                           |                   | 0.280  | <br>0.100  | "         |           | "           | "              | "              |    |
| Ethylbenzene                      |                   | ND     | <br>0.100  |           |           | "           | "              | "              |    |
| Xylenes (total)                   |                   | ND     | <br>0.200  | "         |           | "           | "              | "              |    |

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Curtis D. Armstrong, Project Manager



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| Stantec  | Project Name:    | COP 3485      |                 |
|--|------------------|---------------|-----------------|
| PO Box 230, 12034 - (134th Ct NE Ste 102, zip 98052) | Project Number:  | 3485          | Report Created: |
| Redmond, WA/USA 98073                                | Project Manager: | Linda Rawlins | 04/22/09 12:55  |

# Gasoline Hydrocarbons (Benzene to Napthalene) and BTEX in Air by NWTPH-G and EPA 8021B

| TestAmerica Seattle               |                   |        |       |                         |                         |          |             |                |                |       |  |  |
|-----------------------------------|-------------------|--------|-------|-------------------------|-------------------------|----------|-------------|----------------|----------------|-------|--|--|
| Analyte                           | Method            | Result | MDL*  | MRL                     | Units                   | Dil      | Batch       | Prepared       | Analyzed       | Notes |  |  |
| BSD0219-03 (MID 1)                |                   | Aiı    |       | Sampled: 04/21/09 10:48 |                         |          |             |                |                |       |  |  |
| Surrogate(s): 4-BFB (FID)         |                   |        | 86.4% |                         | 57 - 130 %              | 1x       |             |                | 04/21/09 20:08 |       |  |  |
| 4-BFB (PID)                       |                   |        | 96.6% |                         | 65 - 125 %              | "        |             |                | "              |       |  |  |
| BSD0219-04 (TOT INF)              |                   | Aiı    | r     |                         | Sampl                   | ed: 04/2 | 21/09 10:50 |                |                |       |  |  |
| Gasoline Range Hydrocarbons       | NWTPH<br>Modified | 71.2   |       | 10.0                    | mg/m³ Air               | 1x       | 9D21044     | 04/21/09 14:52 | 04/21/09 20:38 | QP    |  |  |
| Gasoline Range Hydrocarbons (v/v) | "                 | 16.8   |       | 2.36                    | ppmv                    | "        | "           | "              | "              | QP    |  |  |
| Benzene (v/v)                     | "                 | 2.59   |       | 0.0308                  | "                       | "        | "           | "              | "              |       |  |  |
| Toluene (v/v)                     |                   | 3.79   |       | 0.0261                  | "                       | "        | "           | "              | "              |       |  |  |
| Ethylbenzene (v/v)                | "                 | 0.111  |       | 0.0227                  | "                       |          | "           | "              | "              |       |  |  |
| Xylenes, total (v/v)              | "                 | 1.43   |       | 0.0454                  | "                       |          | "           | "              | "              |       |  |  |
| Benzene                           |                   | 8.40   |       | 0.100                   | mg/m³ Air               | "        | "           | "              | "              |       |  |  |
| Toluene                           |                   | 14.5   |       | 0.100                   | "                       | "        | "           | "              | "              |       |  |  |
| Ethylbenzene                      |                   | 0.487  |       | 0.100                   | "                       | "        | "           | "              | "              |       |  |  |
| Xylenes (total)                   | "                 | 6.32   |       | 0.200                   | "                       | "        | "           | "              | "              |       |  |  |
| Surrogate(s): 4-BFB (FID)         |                   |        | 79.8% |                         | 57 - 130 %              | "        |             |                | "              |       |  |  |
| 4-BFB (PID)                       |                   |        | 99.6% |                         | 65 - 125 %              | "        |             |                | "              |       |  |  |
| BSD0219-05 (AS EFF)               |                   | Air    |       |                         | Sampled: 04/21/09 10:53 |          |             |                |                |       |  |  |
| Gasoline Range Hydrocarbons       | NWTPH<br>Modified | 30.3   |       | 10.0                    | mg/m³ Air               | 1x       | 9D21044     | 04/21/09 14:52 | 04/21/09 22:39 | QP    |  |  |
| Gasoline Range Hydrocarbons (v/v) | "                 | 7.14   |       | 2.36                    | ppmv                    | "        | "           |                | "              | QP    |  |  |
| Benzene (v/v)                     | "                 | 1.14   |       | 0.0308                  | "                       | "        | "           | "              |                |       |  |  |

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57 - 130 %

65 - 125 %

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0.0261

0.0227

0.0454

0.100

0.100

0.200

0.100 mg/m3 Air

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78.8%

102%

1.77

0.0595

0.827

3.69

6.79

0.262

3.65

"

TestAmerica Seattle

Toluene (v/v)

Benzene

Toluene

Ethylbenzene

**Xylenes** (total)

Surrogate(s):

Ethylbenzene (v/v)

Xylenes, total (v/v)

and the sea 6

4-BFB (FID)

4-BFB (PID)

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| Stantec  | Project Name:    | COP 3485      |                 |
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| PO Box 230, 12034 - (134th Ct NE Ste 102, zip 98052) | Project Number:  | 3485          | Report Created: |
| Redmond, WA/USA 98073                                | Project Manager: | Linda Rawlins | 04/22/09 12:55  |

#### Gasoline Hydrocarbons (Benzene to Napthalene) and BTEX in Air by NWTPH-G and EPA 8021B TestAmerica Seattle

| Analyte                           | Method            | Result | MDL*  | MRL    | Units                   | Dil | Batch   | Prepared       | Analyzed       | Notes |
|-----------------------------------|-------------------|--------|-------|--------|-------------------------|-----|---------|----------------|----------------|-------|
| BSD0219-06 (SVE INF)              |                   | Air    | Air   |        | Sampled: 04/21/09 11:00 |     |         |                |                |       |
| Gasoline Range Hydrocarbons       | NWTPH<br>Modified | 82.0   |       | 10.0   | mg/m³ Air               | 1x  | 9D21044 | 04/21/09 14:52 | 04/21/09 23:09 |       |
| Gasoline Range Hydrocarbons (v/v) | "                 | 19.3   |       | 2.36   | ppmv                    |     | "       |                | "              |       |
| Benzene (v/v)                     | "                 | 1.07   |       | 0.0308 | "                       | "   | "       |                |                |       |
| Toluene (v/v)                     | "                 | 2.19   |       | 0.0261 | "                       | "   | "       |                |                | 1     |
| Ethylbenzene (v/v)                | "                 | 0.128  |       | 0.0227 | "                       | "   | "       |                | "              |       |
| Xylenes, total (v/v)              | "                 | 1.20   |       | 0.0454 | "                       | "   | "       |                |                |       |
| Benzene                           | "                 | 3.46   |       | 0.100  | mg/m³ Air               | "   | "       |                | "              |       |
| Toluene                           | "                 | 8.38   |       | 0.100  | "                       |     | "       |                | "              | F     |
| Ethylbenzene                      | "                 | 0.563  |       | 0.100  | "                       |     | "       |                | "              |       |
| Xylenes (total)                   | "                 | 5.28   |       | 0.200  | "                       | "   |         | "              | "              |       |
| Surrogate(s): 4-BFB (FID)         |                   |        | 78.7% |        | 57 - 130 %              | "   |         |                | "              |       |
| 4-BFB (PID)                       |                   |        | 95.3% |        | 65 - 125 %              | "   |         |                | "              |       |

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Curtis D. Armstrong, Project Manager

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|--|------------------|---------------|-----------------|
| PO Box 230, 12034 - (134th Ct NE Ste 102, zip 98052) | Project Number:  | 3485          | Report Created: |
| Redmond, WA/USA 98073                                | Project Manager: | Linda Rawlins | 04/22/09 12:55  |

### Gasoline Hydrocarbons (Benzene to Napthalene) and BTEX in Air by NWTPH-G and EPA 8021B - Laboratory Quality Control Results TestAmerica Seattle

| QC Batch: 9D21044                        | Air Pre           | eparation M | lethod: EPA    | 5030B ( | P/T)                      |     |                  |              |          |             |          |         |                     |      |
|--|-------------------|-------------|----------------|---------|---------------------------|-----|------------------|--------------|----------|-------------|----------|---------|---------------------|------|
| Analyte                                  | Method            | Result      | MDL*           | MRL     | Units                     | Dil | Source<br>Result | Spike<br>Amt | %<br>REC | (Limits)    | %<br>RPD | (Limits | ) Analyzed          | Note |
| Blank (9D21044-BLK1)                     |                   |             |                |         |                           |     |                  | Extr         | acted:   | 04/21/09 14 | :52      |         |                     |      |
| Gasoline Range Hydrocarbons              | NWTPH<br>Modified | ND          |                | 10.0    | mg/m³ Air                 | 1x  |                  |              |          |             |          |         | 04/21/09 15:53      |      |
| Gasoline Range Hydrocarbons (v/v)        | wiodified         | ND          |                | 2.36    | ppmv                      |     |                  |              |          |             |          |         |                     |      |
| Benzene (v/v)                            |                   | ND          |                | 0.0308  | "                         |     |                  |              |          |             |          |         |                     |      |
| Coluene (v/v)                            | "                 | ND          |                | 0.0261  | "                         |     |                  |              |          |             |          |         |                     |      |
| Ethylbenzene (v/v)                       | "                 | ND          |                | 0.0227  | "                         | "   |                  |              |          |             |          |         |                     |      |
| Kylenes, total (v/v)                     | "                 | ND          |                | 0.0454  | "                         | "   |                  |              |          |             |          |         |                     |      |
| Benzene                                  | "                 | ND          |                | 0.100   | mg/m³ Air                 | "   |                  |              |          |             |          |         |                     |      |
| oluene                                   | "                 | ND          |                | 0.100   | "                         | "   |                  |              |          |             |          |         |                     |      |
| thylbenzene                              | "                 | ND          |                | 0.100   | "                         | "   |                  |              |          |             |          |         |                     |      |
| Kylenes (total)                          | "                 | ND          |                | 0.200   | "                         | "   |                  |              |          |             |          |         |                     |      |
| Surrogate(s): 4-BFB (FID)<br>4-BFB (PID) |                   | Recovery:   | 81.4%<br>98.2% | Ι       | imits: 57-130%<br>65-125% | "   |                  |              |          |             |          |         | 04/21/09 15:53<br>" |      |
| LCS (9D21044-BS1)                        |                   |             |                |         |                           |     |                  | Extr         | acted:   | 04/21/09 14 | :52      |         |                     |      |
| Gasoline Range Hydrocarbons              | NWTPH<br>Modified | 118         |                | 10.0    | mg/m³ Air                 | 1x  |                  | 100          | 118%     | (42-137)    |          |         | 04/21/09 16:37      |      |
| Surrogate(s): 4-BFB (FID)                |                   | Recovery:   | 83.9%          | I       | imits: 57-130%            | "   |                  |              |          |             |          |         | 04/21/09 16:37      |      |
| LCS (9D21044-BS2)                        |                   |             |                |         |                           |     |                  | Extr         | acted:   | 04/21/09 14 | :52      |         |                     |      |
| Benzene                                  | NWTPH<br>Modified | 1.96        |                | 0.100   | mg/m³ Air                 | 1x  |                  | 2.00         | 98.2%    | (40-150)    |          |         | 04/21/09 17:37      |      |
| oluene                                   | "                 | 2.15        |                | 0.100   | "                         | "   |                  | "            | 108%     | "           |          |         |                     |      |
| Ethylbenzene                             | "                 | 2.04        |                | 0.100   | "                         | "   |                  | "            | 102%     |             |          |         |                     |      |
| Eylenes (total)                          | "                 | 6.19        |                | 0.200   | "                         | "   |                  | 6.00         | 103%     | (42-150)    |          |         |                     |      |
| Surrogate(s): 4-BFB (PID)                |                   | Recovery:   | 102%           | L       | imits: 65-125%            | "   |                  |              |          |             |          |         | 04/21/09 17:37      |      |
| LCS Dup (9D21044-BSD1)                   |                   |             |                |         |                           |     |                  | Extr         | acted:   | 04/21/09 14 | :52      |         |                     |      |
| Gasoline Range Hydrocarbons              | NWTPH<br>Modified | 98.4        |                | 10.0    | mg/m³ Air                 | 1x  |                  | 100          | 98.4%    | (42-137)    | 17.9%    | % (45)  | 04/21/09 17:07      |      |
| Surrogate(s): 4-BFB (FID)                |                   | Recovery:   | 85.8%          | I       | imits: 57-130%            | "   |                  |              |          |             |          |         | 04/21/09 17:07      |      |
| LCS Dup (9D21044-BSD2)                   |                   |             |                |         |                           |     |                  | Extr         | acted:   | 04/21/09 14 | :52      |         |                     |      |
| Benzene                                  | NWTPH<br>Modified | 1.94        |                | 0.100   | mg/m³ Air                 | 1x  |                  | 2.00         | 96.8%    | (40-150)    | 1.40%    | 6 (35)  | 04/21/09 18:07      |      |
| oluene                                   | "                 | 2.02        |                | 0.100   | "                         |     |                  | "            | 101%     |             | 6.30%    | 6 "     |                     |      |
| thylbenzene                              |                   | 1.96        |                | 0.100   | "                         |     |                  | "            | 97.8%    |             | 4.16%    | 6 "     | "                   |      |
| Kylenes (total)                          |                   | 5.91        |                | 0.200   | "                         |     |                  | 6.00         | 98.5%    | (42-150)    | 4.69%    | 6 "     |                     |      |
| Surrogate(s): 4-BFB (PID)                |                   | Recovery:   | 103%           | Ι       | imits: 65-125%            | "   |                  |              |          |             |          |         | 04/21/09 18:07      |      |
|  |                   |             |                |         |                           |     |                  |              |          |             |          |         |                     |      |

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Page 6 of 9



| Stantec  | Project Name:    | COP 3485      |                 |
|--|------------------|---------------|-----------------|
| PO Box 230, 12034 - (134th Ct NE Ste 102, zip 98052) | Project Number:  | 3485          | Report Created: |
| Redmond, WA/USA 98073                                | Project Manager: | Linda Rawlins | 04/22/09 12:55  |

# Gasoline Hydrocarbons (Benzene to Napthalene) and BTEX in Air by NWTPH-G and EPA 8021B - Laboratory Quality Control Results TestAmerica Seattle

| QC Batch: 9D21044                 | Air Pre           | paration M | ethod: EPA | 5030B (  | P/T)           |     |                  |              |          |             |          |         |                |       |
|-----------------------------------|-------------------|------------|------------|----------|----------------|-----|------------------|--------------|----------|-------------|----------|---------|----------------|-------|
| Analyte                           | Method            | Result     | MDL*       | MRL      | Units          | Dil | Source<br>Result | Spike<br>Amt | %<br>REC | (Limits)    | %<br>RPD | (Limits | ) Analyzed     | Notes |
| Duplicate (9D21044-DUP1)          |                   |            |            | QC Sourc | e: BSD0219-01  |     |                  | Extr         | acted:   | 04/21/09 14 | :52      |         |                |       |
| Gasoline Range Hydrocarbons (v/v) | NWTPH<br>Modified | ND         |            | 2.36     | ppmv           | 1x  | ND               |              |          |             | NR       | (30)    | 04/21/09 19:08 |       |
| Gasoline Range Hydrocarbons       | "                 | ND         |            | 10.0     | mg/m³ Air      | "   | ND               |              |          |             | NR       | (20)    |                |       |
| Benzene (v/v)                     | "                 | ND         |            | 0.0308   | ppmv           | "   | ND               |              |          |             | NR       | (30)    |                |       |
| Toluene (v/v)                     | "                 | ND         |            | 0.0261   | "              |     | ND               |              |          |             | NR       | "       | "              |       |
| Ethylbenzene (v/v)                | "                 | ND         |            | 0.0227   | "              | "   | ND               |              |          |             | NR       | "       | "              |       |
| Xylenes, total (v/v)              | "                 | ND         |            | 0.0454   | "              | "   | ND               |              |          |             | NR       | "       | "              |       |
| Benzene                           | "                 | ND         |            | 0.100    | mg/m³ Air      | "   | ND               |              |          |             | NR       | "       | "              |       |
| Toluene                           | "                 | ND         |            | 0.100    | "              | "   | ND               |              |          |             | NR       | (25)    | "              |       |
| Ethylbenzene                      | "                 | ND         |            | 0.100    | "              |     | ND               |              |          |             | NR       | (30)    | "              |       |
| Xylenes (total)                   |                   | ND         |            | 0.200    | "              | "   | ND               |              |          |             | NR       | "       | "              |       |
| Surrogate(s): 4-BFB (FID)         |                   | Recovery:  | 79.3%      | I        | imits: 57-130% | "   |                  |              |          |             |          |         | 04/21/09 19:08 |       |
| 4-BFB (PID)                       |                   |            | 101%       |          | 65-125%        | "   |                  |              |          |             |          |         | "              |       |

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Curtis D. Armstrong, Project Manager





| Stantec  | Project Name:    | COP 3485      |                 |
|--|------------------|---------------|-----------------|
| PO Box 230, 12034 - (134th Ct NE Ste 102, zip 98052) | Project Number:  | 3485          | Report Created: |
| Redmond, WA/USA 98073                                | Project Manager: | Linda Rawlins | 04/22/09 12:55  |

# **CERTIFICATION SUMMARY**

# TestAmerica Seattle

| Method         | Matrix | Nelac | Washington |  |
|----------------|--------|-------|------------|--|
| NWTPH Modified | Air    |       |            |  |

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC).

TestAmerica Seattle

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Curtis D. Armstrong, Project Manager





| Stantec  | Project Name:    | COP 3485      |                 |
|--|------------------|---------------|-----------------|
| PO Box 230, 12034 - (134th Ct NE Ste 102, zip 98052) | Project Number:  | 3485          | Report Created: |
| Redmond, WA/USA 98073                                | Project Manager: | Linda Rawlins | 04/22/09 12:55  |
|  |                  |               |                 |

# **Notes and Definitions**

Report Specific Notes:

| Report Sp           |     | ie notes.  |
|---------------------|-----|--|
| B9                  | -   | Analyte was detected in the associated calibration blank. Analyte concentration in the sample is greater than 10x the concentration found in the calibration blank.  |
| Q1                  | -   | Does not match typical pattern   |
| QP                  | -   | Hydrocarbon result partly due to individual peak(s) in quantitation range.   |
| Laborator           | y R | eporting Conventions:  |
| DET                 | -   | Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.   |
| ND                  | -   | Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).   |
| NR/NA               | -   | Not Reported / Not Available   |
| dry                 | -   | Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.  |
| wet                 | -   | Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.   |
| RPD                 | -   | RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).   |
| MRL                 | -   | METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.  |
| MDL*                | -   | METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results. |
| Dil                 | -   | Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.  |
| Reporting<br>Limits | -   | Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.  |
| Electronic          | -   | Electronic Signature added in accordance with TestAmerica's Electronic Reporting and Electronic Signatures Policy.   |

Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Signature Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle

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Curtis D. Armstrong, Project Manager



| lestAmerica   |  | 11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244<br>11922 E. First Ave, Spokane, WA 99206-5302<br>9405 SW Nimbus Ave,Beaverton, OR 97008-7145 |                                | 425-420-9200 FAX 420-9210<br>509-924-9200 FAX 924-9290<br>503-906-9200 FAX 906-9210 |   |
|---|--|---|--------------------------------|---|---|
| THE LEADER IN ENVIRONMENTAL TESTING                           |  | 2000 W International Airport Rd Ste A10, Anchorage,   |                                | 907-563-9200 FAX 563-9210   |   |
|   | CHAIN OF CUSTODY REPORT                | Y REPORT  | Work Order #:                  | 6100219   |   |
| CLENT: C D P  | INVOICE TO:                            |   | TURNARC                        | TURNAROUND REQUEST  | -   |
| TO: LINDA RAULINS )   | RICK Pr                                | RICK Patter LY  | in Bu                          | in Business Days *  |   |
|   |  |   | Organic & Inc                  | Organic & Inorganic Analyses  | ]   |
| 98052   |  | •   |                                | 2 1   | 7   |
| PHONE: 4.2 12 - 1600 FAX: 4.2 4 2 4 2 - 16 6 0                | P.O. NUMBER:                           |   |                                |   |   |
| PROJECT NAME:   |  | AUIVE   |                                |   |   |
| PROJECT NUMBER:   | I     I     I       REOUESTED ANALYSES | ANALYSES  | OTHER                          | Specify:  |   |
|   |  | · · ·   | * Turnaround Requests less th  | * Turnaround Requests less than standard may incur Rush Charges.                    | arges.  |
| CLIENT SAMPLE SAMPLING<br>CLIENT SAMPLE SAMPLING<br>DATE/TIME |  |   | MATRIX # OF<br>(W, S, O) CONT. | LOCATION/<br>COMMENTS W   | TA<br>WO ID                                   |
|   |  |   | AIR 1                          | 3485 W  | WAD   |
| 2   |  |   |                                |   | Ø   |
| e<br>tow  |  |   |                                |   | 8   |
| 1   |  |   |                                |   | 14  |
| , AS FFR 1 @ 10:53 X X  |  |   | ^^                             |   | 105   |
| · SVE TWF 4/2/09 € 11:00 × ×                                  |  |   | 415 1                          | SH SC M   | WAR   |
|   |  |   |                                |   | , <u>,,,,</u> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
|   |  |   |                                |   |   |
|   |  |   |                                |   |   |
|   |  | 11 10 11  |                                |   | /   |
| RELEASED BY: 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2            | DATE: 4-21-09                          | RECEIVED BY: (LT 1/1.1) JUGAN 6/14 PRIDT NAME:  | FIRM: TH                       | SPL TIME 14:  | 6 9   |
| FIRM:   | DATE:<br>TIME:                         | RECEIVED BY:  | FIRM:                          | DATE:<br>TIME:  |   |
| ADDITIONAL REMARKS:   |  |   |                                | TEMP:<br>22.1 PAGE OF   |   |
|   |  |   |                                | 2 0 TAL-1000(0408)  | )(0408)                                       |
|   |  |   |                                | •   |   |

| TAT: Pa<br>Page Time & Initials:   | aperwork to PM – Date: Ti   | me: Non-Conformances?<br>Circle Y o   |
|--|---|---|
|  |   | (If Y, see other side)  |
| TEST AME   | ERICA SAMPLE RECEIPT  | CHECKLIST   |
| Received By: Logged-in B<br>(applies to temp al/receipt) /   | By: Unpacked/Labeled E  | By: Cooler ID:  |
| Date: $\frac{4/21}{1.00}$ Date: $\frac{4/21}{1.00}$<br>Time: $\frac{14.00}{1.00}$ Time: $\frac{14.16}{1.00}$<br>Initials: $\frac{14.16}{1.00}$ | Date: <u>4/2/</u><br>Time: <u></u><br>Initials: <u>[]</u>                       | Work Order No.         BADD19           Client:            Project:                                   |
| ······································   | _   |   |
| BoxOn B  | COC Seals:<br>ContainerSign By<br>ottlesDate<br>None<br>Soil Stir Bars/Encores: | Packing Material:<br>Bubble Bags Styrofoam<br>Foam Packs<br>None/Other<br><u>Received Via: Bill#:</u> |
| Gel Ice Pack<br>Løose Ice<br>None/Other  | Placed in freezer #46:<br>Y or N or NA<br>Initial/date/time                     | Fed Ex∕_Client<br>UPSTA Courier<br>DHLMid Valley<br>SenvoyTDP<br>GSOther                              |
| Cooler Temperature ( <u>IR): 22.1</u> °CP  | (circle one)  |   |
| Temperature Blank?°C or NA<br>BP, OPLC,ARCO-Temperature moni<br>(initial/date/time):   | toring every 15 minutes:  | · · ·   |
| Comments:  |   |   |
| Sample Containers:<br>Intact?  | ID<br>Metals Preserv  | ved? Y or N or NA   |
|  | Client QAPP P   |   |
| Correct Type?  | Adequate Volu<br>(for tests requeste  | me? Øor N   |
|  |   | Headspace? Y or N or NA   |
| _  |   |   |
| Hold Times in hold?  | ·   |   |
| PROJECT MANAGEMENT   |   |   |
| Is the Chain of Custody complete?  |   | Y or $N$ If N, circle the items that were incomplete  |
| Comments,Problems  |   |   |
|  |   |   |
| Total access set up?<br>Has client been contacted regarding non-conf   | formances?  | Y or N<br>Y or N If Y,/<br>Date Time  |
| PM Initials: Date:   | Time:   |   |



June 05, 2009

Rick Fetterly Stantec PO Box 230, 12034 - (134th Ct NE Ste 102, zip 98052) Redmond, WA/USA 98073

RE: COP 3485

Enclosed are the results of analyses for samples received by the laboratory on 05/21/09 13:05. The following list is a summary of the Work Orders contained in this report, generated on 06/05/09 10:48.

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

Work Order BSE0224 Project COP 3485 ProjectNumber 212302155

TestAmerica Seattle

and the

Curtis D. Armstrong, Project Manager





| Stantec  | Project Name:    | COP 3485      |                 |
|--|------------------|---------------|-----------------|
| PO Box 230, 12034 - (134th Ct NE Ste 102, zip 98052) | Project Number:  | 212302155     | Report Created: |
| Redmond, WA/USA 98073                                | Project Manager: | Rick Fetterly | 06/05/09 10:48  |

ANALYTICAL REPORT FOR SAMPLES

| Sample ID   | Laboratory ID | Matrix    | Date Sampled   | Date Received  |
|-------------|---------------|-----------|----------------|----------------|
| Tot Eff     | BSE0224-01    | Air       | 05/21/09 09:40 | 05/21/09 13:05 |
| Mid 2       | BSE0224-02    | Air       | 05/21/09 09:45 | 05/21/09 13:05 |
| Mid 1       | BSE0224-03    | Air       | 05/21/09 09:50 | 05/21/09 13:05 |
| Tot Inf     | BSE0224-04    | Air       | 05/21/09 09:55 | 05/21/09 13:05 |
| SVE Inf     | BSE0224-05    | Air       | 05/21/09 10:00 | 05/21/09 13:05 |
| CARBON GRAB | BSE0224-06    | Other dry | 05/21/09 10:30 | 05/21/09 13:05 |

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Curtis D. Armstrong, Project Manager





| Stantec  | Project Name:    | COP 3485      |                 |
|--|------------------|---------------|-----------------|
| PO Box 230, 12034 - (134th Ct NE Ste 102, zip 98052) | Project Number:  | 212302155     | Report Created: |
| Redmond, WA/USA 98073                                | Project Manager: | Rick Fetterly | 06/05/09 10:48  |

# Gasoline Hydrocarbons (Benzene to Napthalene) and BTEX in Air by NWTPH-G and EPA 8021B TestAmerica Seattle

|                                   |                   |        |       | •••••• |            |          |            |                |                |       |
|-----------------------------------|-------------------|--------|-------|--------|------------|----------|------------|----------------|----------------|-------|
| Analyte                           | Method            | Result | MDL*  | MRL    | Units      | Dil      | Batch      | Prepared       | Analyzed       | Notes |
| BSE0224-01 (Tot Eff)              |                   | Air    |       |        | Sampl      | ed: 05/2 | 1/09 09:40 |                |                |       |
| Gasoline Range Hydrocarbons       | NWTPH<br>Modified | 10.3   |       | 10.0   | mg/m³ Air  | 1x       | 9E21032    | 05/21/09 13:46 | 05/21/09 20:17 |       |
| Gasoline Range Hydrocarbons (v/v) |                   | 2.42   |       | 2.36   | ppmv       | "        | "          |                |                |       |
| Benzene (v/v)                     |                   | ND     |       | 0.0308 | "          | "        | "          |                | "              |       |
| Foluene (v/v)                     |                   | ND     |       | 0.0261 | "          | "        | "          |                | "              |       |
| Ethylbenzene (v/v)                | "                 | ND     |       | 0.0227 | "          | "        |            | "              | "              |       |
| Xylenes, total (v/v)              |                   | ND     |       | 0.0454 | "          | "        | "          |                | "              |       |
| Benzene                           | "                 | ND     |       | 0.100  | mg/m³ Air  | "        |            | "              | "              |       |
| Foluene                           | "                 | ND     |       | 0.100  | "          | "        |            | "              | "              |       |
| Ethylbenzene                      |                   | ND     |       | 0.100  | "          | "        | "          |                | "              |       |
| Xylenes (total)                   | "                 | ND     |       | 0.200  | "          | "        |            | "              | "              |       |
| Surrogate(s): 4-BFB (FID)         |                   |        | 75.5% |        | 57 - 130 % | "        |            |                | "              |       |
| 4-BFB (PID)                       |                   |        | 103%  |        | 65 - 125 % | "        |            |                | "              |       |

| BSE0224-02 (Mid 2)                |                   | Air |       |        | Sample     | ed: 05/2 | 1/09 09:45 |                |                |
|-----------------------------------|-------------------|-----|-------|--------|------------|----------|------------|----------------|----------------|
| Gasoline Range Hydrocarbons       | NWTPH<br>Modified | ND  |       | 10.0   | mg/m³ Air  | 1x       | 9E21032    | 05/21/09 13:46 | 05/21/09 22:17 |
| Gasoline Range Hydrocarbons (v/v) | "                 | ND  |       | 2.36   | ppmv       |          | "          | "              | "              |
| Benzene (v/v)                     | "                 | ND  |       | 0.0308 | "          |          | "          | "              | "              |
| Toluene (v/v)                     | "                 | ND  |       | 0.0261 | "          |          | "          | "              | "              |
| Ethylbenzene (v/v)                | "                 | ND  |       | 0.0227 | "          |          | "          | "              | "              |
| Xylenes, total (v/v)              | "                 | ND  |       | 0.0454 | "          |          | "          | "              | "              |
| Benzene                           | "                 | ND  |       | 0.100  | mg/m³ Air  |          | "          | "              | "              |
| Toluene                           | "                 | ND  |       | 0.100  | "          |          | "          | "              | "              |
| Ethylbenzene                      | "                 | ND  |       | 0.100  | "          |          | "          | "              | "              |
| Xylenes (total)                   | "                 | ND  |       | 0.200  | "          | "        | "          | "              | "              |
| Surrogate(s): 4-BFB (FID)         |                   |     | 81.6% |        | 57 - 130 % | "        |            |                | "              |
| 4-BFB (PID)                       |                   |     | 104%  |        | 65 - 125 % | "        |            |                | "              |

| BSE0224-03 (Mid 1)                |                   | Air  | Air |        |           | led: 05/2 |         |                |                |
|-----------------------------------|-------------------|------|-----|--------|-----------|-----------|---------|----------------|----------------|
| Gasoline Range Hydrocarbons       | NWTPH<br>Modified | 22.0 |     | 10.0   | mg/m³ Air | 1x        | 9E21032 | 05/21/09 13:46 | 05/21/09 22:48 |
| Gasoline Range Hydrocarbons (v/v) | "                 | 5.18 |     | 2.36   | ppmv      |           | "       | "              | "              |
| Benzene (v/v)                     | "                 | 2.33 |     | 0.0308 |           |           | "       |                | "              |
| Toluene (v/v)                     | "                 | ND   |     | 0.0261 | "         |           | "       | "              | "              |
| Ethylbenzene (v/v)                | "                 | ND   |     | 0.0227 | "         |           | "       | "              | "              |
| Xylenes, total (v/v)              | "                 | ND   |     | 0.0454 | "         |           | "       |                | "              |
| Benzene                           | "                 | 7.57 |     | 0.100  | mg/m³ Air |           | "       | "              | "              |
| Toluene                           | "                 | ND   |     | 0.100  | "         |           | "       | "              | "              |
| Ethylbenzene                      | "                 | ND   |     | 0.100  | "         |           | "       |                | "              |
| Xylenes (total)                   | "                 | ND   |     | 0.200  | "         |           | "       | "              | "              |

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| Stantec  | Project Name:    | COP 3485      |                 |
|--|------------------|---------------|-----------------|
| PO Box 230, 12034 - (134th Ct NE Ste 102, zip 98052) | Project Number:  | 212302155     | Report Created: |
| Redmond, WA/USA 98073                                | Project Manager: | Rick Fetterly | 06/05/09 10:48  |

# Gasoline Hydrocarbons (Benzene to Napthalene) and BTEX in Air by NWTPH-G and EPA 8021B

| Analyte                          | Method            | Result | MDL*  | MRL    | Units      | Dil      | Batch       | Prepared       | Analyzed       | Note |
|----------------------------------|-------------------|--------|-------|--------|------------|----------|-------------|----------------|----------------|------|
| SE0224-03 (Mid 1)                |                   | Aiı    | •     |        | Sample     | ed: 05/2 | 21/09 09:50 |                |                |      |
| Surrogate(s): 4-BFB (FID)        |                   |        | 81.0% |        | 57 - 130 % | lx       |             |                | 05/21/09 22:48 |      |
| 4-BFB (PID)                      |                   |        | 103%  |        | 65 - 125 % | "        |             |                | "              |      |
| SE0224-04 (Tot Inf)              |                   | Aiı    | •     |        | Sample     | ed: 05/2 | 21/09 09:55 |                |                |      |
| Gasoline Range Hydrocarbons      | NWTPH<br>Modified | 20.4   |       | 10.0   | mg/m³ Air  | 1x       | 9E21032     | 05/21/09 13:46 | 05/21/09 23:18 |      |
| asoline Range Hydrocarbons (v/v) | "                 | 4.81   |       | 2.36   | ppmv       | "        |             |                | "              |      |
| enzene (v/v)                     | "                 | 0.0869 |       | 0.0308 |            | "        |             |                | "              |      |
| oluene (v/v)                     | "                 | 0.126  |       | 0.0261 | "          | "        | "           |                | "              |      |
| thylbenzene (v/v)                | "                 | ND     |       | 0.0227 | "          | "        | "           |                | "              |      |
| ylenes, total (v/v)              | "                 | 0.0464 |       | 0.0454 | "          | "        | "           |                | "              |      |
| enzene                           | "                 | 0.282  |       | 0.100  | mg/m³ Air  | "        |             |                | "              |      |
| oluene                           | "                 | 0.483  |       | 0.100  | "          | "        | "           |                | "              |      |
| thylbenzene                      | "                 | ND     |       | 0.100  | "          | "        | "           |                | "              |      |
| ylenes (total)                   | "                 | 0.204  |       | 0.200  |            | "        |             | "              | "              |      |
| Surrogate(s): 4-BFB (FID)        |                   |        | 83.5% |        | 57 - 130 % | "        |             |                | "              |      |
| 4-BFB (PID)                      |                   |        | 102%  |        | 65 - 125 % | "        |             |                | "              |      |
| SE0224-05 (SVE Inf)              |                   | Air    | •     |        | Sample     | ed: 05/2 | 21/09 10:00 |                |                |      |
| asoline Range Hydrocarbons       | NWTPH<br>Modified | 43.8   |       | 10.0   | mg/m³ Air  | 1x       | 9E21032     | 05/21/09 13:46 | 05/21/09 23:48 |      |
| asoline Range Hydrocarbons (v/v) | "                 | 10.3   |       | 2.36   | ppmv       | "        | "           |                | "              |      |
| enzene (v/v)                     | "                 | 0.307  |       | 0.0308 | "          | "        |             |                | "              |      |
| oluene (v/v)                     | "                 | 0.615  |       | 0.0261 | "          | "        |             |                | "              |      |
| thylbenzene (v/v)                | "                 | 0.0273 |       | 0.0227 | "          | "        |             |                | "              |      |
| ylenes, total (v/v)              | "                 | 0.401  |       | 0.0454 | "          | "        |             |                | "              |      |
| enzene                           | "                 | 0.996  |       | 0.100  | mg/m³ Air  | "        | "           |                | "              |      |
| oluene                           | "                 | 2.35   |       | 0.100  | "          | "        |             |                | "              |      |
| thylbenzene                      | "                 | 0.120  |       | 0.100  |            | "        |             |                | "              |      |
| ylenes (total)                   | "                 | 1.77   |       | 0.200  | "          | "        | "           | "              | "              |      |
| Surrogate(s): 4-BFB (FID)        |                   |        | 84.2% |        | 57 - 130 % | "        |             |                | "              |      |
|                                  |                   |        |       |        |            |          |             |                |                |      |

TestAmerica Seattle

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Curtis D. Armstrong, Project Manager





| Stantec  | Project Name:    | COP 3485      |                 |
|--|------------------|---------------|-----------------|
| PO Box 230, 12034 - (134th Ct NE Ste 102, zip 98052) | Project Number:  | 212302155     | Report Created: |
| Redmond, WA/USA 98073                                | Project Manager: | Rick Fetterly | 06/05/09 10:48  |

|               | TCLP Volatile Organic Compounds by EPA Method 1311/8260B<br>TestAmerica Nashville |                     |        |                                   |        |            |     |         |                |                |       |  |  |  |
|---------------|---|---------------------|--------|-----------------------------------|--------|------------|-----|---------|----------------|----------------|-------|--|--|--|
| Analyte       |   | Method              | Result | MDL*                              | MRL    | Units      | Dil | Batch   | Prepared       | Analyzed       | Notes |  |  |  |
| BSE0224-06    | (CARBON GRAB)   |                     | Otl    | Other dry Sampled: 05/21/09 10:30 |        |            |     |         |                |                |       |  |  |  |
| Benzene       |   | SW846<br>1311/8260B | ND     |                                   | 0.0100 | mg/L       | 1x  | 9054721 | 05/30/09 19:41 | 05/31/09 17:06 |       |  |  |  |
| Surrogate(s): | 1,2-Dichloroethane-d4   |                     |        | 106%                              |        | 63 - 140 % | "   |         |                | "              |       |  |  |  |
|               | Dibromofluoromethane  |                     |        | 108%                              |        | 73 - 131 % | "   |         |                | "              |       |  |  |  |
|               | Toluene-d8  |                     |        | 92%                               |        | 80 - 120 % | "   |         |                | "              |       |  |  |  |
|               | 4-Bromofluorobenzene  |                     |        | 100%                              |        | 79 - 125 % | "   |         |                | "              |       |  |  |  |

TestAmerica Seattle

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Curtis D. Armstrong, Project Manager





| Stantec  | Project Name:    | COP 3485      |                 |
|--|------------------|---------------|-----------------|
| PO Box 230, 12034 - (134th Ct NE Ste 102, zip 98052) | Project Number:  | 212302155     | Report Created: |
| Redmond, WA/USA 98073                                | Project Manager: | Rick Fetterly | 06/05/09 10:48  |

# Gasoline Hydrocarbons (Benzene to Napthalene) and BTEX in Air by NWTPH-G and EPA 8021B - Laboratory Quality Control Results TestAmerica Seattle

| QC Batch: 9E21032                        | Air Pre           | eparation M | lethod: EPA    | 5030B ( | P/T)                      |     |                  |              |          |             |          |         |                     |      |
|--|-------------------|-------------|----------------|---------|---------------------------|-----|------------------|--------------|----------|-------------|----------|---------|---------------------|------|
| Analyte                                  | Method            | Result      | MDL*           | MRL     | Units                     | Dil | Source<br>Result | Spike<br>Amt | %<br>REC | (Limits)    | %<br>RPD | (Limits | s) Analyzed         | Note |
| Blank (9E21032-BLK1)                     |                   |             |                |         |                           |     |                  | Extr         | acted:   | 05/21/09 13 | :46      |         |                     |      |
| Gasoline Range Hydrocarbons (v/v)        | NWTPH<br>Modified | ND          |                | 2.36    | ppmv                      | 1x  |                  |              |          |             |          |         | 05/21/09 15:46      |      |
| Gasoline Range Hydrocarbons              | "                 | ND          |                | 10.0    | mg/m³ Air                 |     |                  |              |          |             |          |         |                     |      |
| Benzene (v/v)                            | "                 | ND          |                | 0.0308  | ppmv                      |     |                  |              |          |             |          |         |                     |      |
| Toluene (v/v)                            | "                 | ND          |                | 0.0261  | "                         | "   |                  |              |          |             |          |         |                     |      |
| Ethylbenzene (v/v)                       | "                 | ND          |                | 0.0227  | "                         |     |                  |              |          |             |          |         |                     |      |
| Xylenes, total (v/v)                     |                   | ND          |                | 0.0454  | "                         |     |                  |              |          |             |          |         |                     |      |
| Benzene                                  | "                 | ND          |                | 0.100   | mg/m³ Air                 |     |                  |              |          |             |          |         |                     |      |
| Toluene                                  | "                 | ND          |                | 0.100   | "                         |     |                  |              |          |             |          |         |                     |      |
| Ethylbenzene                             |                   | ND          |                | 0.100   | "                         | "   |                  |              |          |             |          |         |                     |      |
| Xylenes (total)                          |                   | ND          |                | 0.200   | "                         | "   |                  |              |          |             |          |         | "                   |      |
| Surrogate(s): 4-BFB (FID)<br>4-BFB (PID) |                   | Recovery:   | 76.4%<br>99.2% | L       | imits: 57-130%<br>65-125% | "   |                  |              |          |             |          |         | 05/21/09 15:46<br>" |      |
| LCS (9E21032-BS1)                        |                   |             |                |         |                           |     |                  | Extr         | acted:   | 05/21/09 13 | :46      |         |                     |      |
| Gasoline Range Hydrocarbons              | NWTPH<br>Modified | 93.2        |                | 10.0    | mg/m³ Air                 | 1x  |                  | 100          | 93.2%    | (42-137)    |          |         | 05/21/09 16:16      |      |
| Surrogate(s): 4-BFB (FID)                |                   | Recovery:   | 82.7%          | L       | imits: 57-130%            | "   |                  |              |          |             |          |         | 05/21/09 16:16      |      |
| LCS (9E21032-BS2)                        |                   |             |                |         |                           |     |                  | Extr         | acted:   | 05/21/09 13 | :46      |         |                     |      |
| Benzene                                  | NWTPH<br>Modified | 1.52        |                | 0.100   | mg/m³ Air                 | 1x  |                  | 2.00         | 75.9%    | (40-150)    |          |         | 05/21/09 17:16      |      |
| Toluene                                  | "                 | 1.60        |                | 0.100   | "                         |     |                  | "            | 79.8%    | "           |          |         |                     |      |
| Ethylbenzene                             | "                 | 1.56        |                | 0.100   | "                         |     |                  | "            | 78.2%    | "           |          |         |                     |      |
| Xylenes (total)                          | "                 | 4.72        |                | 0.200   | "                         |     |                  | 6.00         | 78.7%    | (42-150)    |          |         |                     |      |
| Surrogate(s): 4-BFB (PID)                |                   | Recovery:   | 104%           | L       | imits: 65-125%            | "   |                  |              |          |             |          |         | 05/21/09 17:16      |      |
| LCS Dup (9E21032-BSD1)                   |                   |             |                |         |                           |     |                  | Extr         | acted:   | 05/21/09 13 | :46      |         |                     |      |
| Gasoline Range Hydrocarbons              | NWTPH<br>Modified | 95.6        |                | 10.0    | mg/m³ Air                 | 1x  |                  | 100          | 95.6%    | (42-137)    | 2.51%    | 6 (45)  | 05/21/09 16:46      |      |
| Surrogate(s): 4-BFB (FID)                |                   | Recovery:   | 81.5%          | L       | imits: 57-130%            | "   |                  |              |          |             |          |         | 05/21/09 16:46      |      |
| LCS Dup (9E21032-BSD2)                   |                   |             |                |         |                           |     |                  | Extr         | acted:   | 05/21/09 13 | :46      |         |                     |      |
| Benzene                                  | NWTPH<br>Modified | 1.57        |                | 0.100   | mg/m³ Air                 | 1x  |                  | 2.00         | 78.4%    | (40-150)    | 3.30%    | 6 (35)  | 05/21/09 17:46      |      |
| Toluene                                  | "                 | 1.65        |                | 0.100   | "                         | "   |                  | "            | 82.7%    | "           | 3.57%    | 6 "     |                     |      |
| Ethylbenzene                             |                   | 1.63        |                | 0.100   | "                         | "   |                  | "            | 81.3%    | "           | 3.91%    | 6 "     |                     |      |
| Xylenes (total)                          |                   | 4.89        |                | 0.200   | "                         | "   |                  | 6.00         | 81.5%    | (42-150)    | 3.45%    | 6 "     |                     |      |
| Surrogate(s): 4-BFB (PID)                |                   | Recovery:   | 104%           | L       | imits: 65-125%            | "   |                  |              |          |             |          |         | 05/21/09 17:46      |      |
|  |                   |             |                |         |                           |     |                  |              |          |             |          |         |                     |      |

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Curtis D. Armstrong, Project Manager

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without the written approval of the laboratory.





| Stantec  | Project Name:    | COP 3485      |                 |
|--|------------------|---------------|-----------------|
| PO Box 230, 12034 - (134th Ct NE Ste 102, zip 98052) | Project Number:  | 212302155     | Report Created: |
| Redmond, WA/USA 98073                                | Project Manager: | Rick Fetterly | 06/05/09 10:48  |

# Gasoline Hydrocarbons (Benzene to Napthalene) and BTEX in Air by NWTPH-G and EPA 8021B - Laboratory Quality Control Results TestAmerica Seattle

| QC Batch: 9E21032                 | Air Pre           | paration M | ethod: EPA | 5030B (  | P/T)           |     |                  |              |          |             |          |         |                |       |
|-----------------------------------|-------------------|------------|------------|----------|----------------|-----|------------------|--------------|----------|-------------|----------|---------|----------------|-------|
| Analyte                           | Method            | Result     | MDL*       | MRL      | Units          | Dil | Source<br>Result | Spike<br>Amt | %<br>REC | (Limits)    | %<br>RPD | (Limits | ) Analyzed     | Notes |
| Duplicate (9E21032-DUP1)          |                   |            |            | QC Sourc | e: BSE0223-01  |     |                  | Extr         | acted:   | 05/21/09 13 | :46      |         |                |       |
| Gasoline Range Hydrocarbons (v/v) | NWTPH<br>Modified | 3.25       |            | 2.36     | ppmv           | 1x  | 3.57             |              |          |             | 9.29%    | (30)    | 05/21/09 18:46 |       |
| Gasoline Range Hydrocarbons       | "                 | 13.8       |            | 10.0     | mg/m³ Air      | "   | 15.1             |              |          |             | 9.29%    | (20)    | "              |       |
| Benzene (v/v)                     | "                 | ND         |            | 0.0308   | ppmv           |     | ND               |              |          |             | 16.2%    | (30)    |                |       |
| Toluene (v/v)                     |                   | ND         |            | 0.0261   | "              |     | ND               |              |          |             | NR       | "       |                |       |
| Ethylbenzene (v/v)                | "                 | ND         |            | 0.0227   | "              |     | ND               |              |          |             | 8.08%    | "       |                |       |
| Xylenes, total (v/v)              | "                 | 0.0549     |            | 0.0454   | "              |     | 0.0566           |              |          |             | 3.09%    | "       |                |       |
| Benzene                           | "                 | ND         |            | 0.100    | mg/m³ Air      |     | ND               |              |          |             | 16.2%    | "       |                |       |
| Toluene                           | "                 | ND         |            | 0.100    | "              |     | ND               |              |          |             | NR       | (25)    | "              |       |
| Ethylbenzene                      | "                 | ND         |            | 0.100    | "              |     | ND               |              |          |             | 8.08%    | (30)    |                |       |
| Xylenes (total)                   | "                 | 0.242      |            | 0.200    | "              | "   | 0.250            |              |          |             | 3.09%    | "       | "              |       |
| Surrogate(s): 4-BFB (FID)         |                   | Recovery:  | 76.8%      | L        | imits: 57-130% | "   |                  |              |          |             |          |         | 05/21/09 18:46 |       |
| 4-BFB (PID)                       |                   |            | 101%       |          | 65-125%        | "   |                  |              |          |             |          |         | "              |       |

TestAmerica Seattle

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Curtis D. Armstrong, Project Manager





# Stantec

PO Box 230, 12034 - (134th Ct NE Ste 102, zip 98052) Redmond, WA/USA 98073

COP 3485 Project Name: Project Number: Project Manager:

212302155 Rick Fetterly

Report Created: 06/05/09 10:48

# TCLP Volatile Organic Compounds by EPA Method 1311/8260B - Laboratory Quality Control Results TestAmerica Nashville

| QC Batch             | : 9054721             | Water F             | Preparation | Method: 1 | EPA 5030E | 3             |      |                  |              |          |             |          |          |                |       |
|----------------------|-----------------------|---------------------|-------------|-----------|-----------|---------------|------|------------------|--------------|----------|-------------|----------|----------|----------------|-------|
| Analyte              |                       | Method              | Result      | MDL*      | MRL       | Units         | Dil  | Source<br>Result | Spike<br>Amt | %<br>REC | (Limits)    | %<br>RPD | (Limits) | ) Analyzed     | Notes |
| Blank (905472        | 1-BLK1)               |                     |             |           |           |               |      |                  | Extr         | acted:   | 05/30/09 19 | 9:41     |          |                |       |
| Benzene              |                       | SW846<br>1311/8260B | ND          |           | 0.00100   | mg/L          | 0.1x |                  |              |          |             |          |          | 05/31/09 11:39 |       |
| 2-Butanone           |                       |                     | ND          |           | 0.0250    | "             | "    |                  |              |          |             |          |          |                |       |
| Carbon Tetrachloride |                       |                     | ND          |           | 0.00100   | "             | "    |                  |              |          |             |          |          |                |       |
| Chlorobenzene        |                       |                     | ND          |           | 0.00100   | "             | "    |                  |              |          |             |          |          | "              |       |
| Chloroform           |                       |                     | ND          |           | 0.00100   | "             | "    |                  |              |          |             |          |          | "              |       |
| 1,2-Dichloroethane   |                       |                     | ND          |           | 0.00100   | "             | "    |                  |              |          |             |          |          | "              |       |
| 1,1-Dichloroethene   |                       |                     | ND          |           | 0.00100   | "             | "    |                  |              |          |             |          |          |                |       |
| Tetrachloroethene    |                       |                     | ND          |           | 0.00100   | "             | "    |                  |              |          |             |          |          | "              |       |
| Trichloroethene      |                       |                     | ND          |           | 0.00100   | "             | "    |                  |              |          |             |          |          |                |       |
| Vinyl chloride       |                       |                     | ND          |           | 0.00100   |               | "    |                  |              |          |             |          |          | "              |       |
| Surrogate(s):        | 1,2-Dichloroethane-d4 |                     | Recovery:   | 106%      | Li        | mits: 63-140% | ó "  |                  |              |          |             |          |          | 05/31/09 11:39 |       |
|                      | Dibromofluoromethane  |                     |             | 107%      |           | 73-1319       |      |                  |              |          |             |          |          | "              |       |
|                      | Toluene-d8            |                     |             | 93%       |           | 80-1209       |      |                  |              |          |             |          |          | "              |       |
|                      | 4-Bromofluorobenzene  |                     |             | 99%       |           | 79-125%       | 6 "  |                  |              |          |             |          |          |                |       |
| Blank (905472        | 1-BLK2)               |                     |             |           |           |               |      |                  | Extr         | acted:   | 05/30/09 19 | 9:41     |          |                |       |
| Benzene              |                       | SW846<br>1311/8260B | ND          |           | 0.00100   | mg/L          | 0.1x |                  |              |          |             |          |          | 05/31/09 12:06 |       |
| 2-Butanone           |                       | "                   | ND          |           | 0.0250    | "             | "    |                  |              |          |             |          |          |                |       |
| Carbon Tetrachloride |                       | "                   | ND          |           | 0.00100   | "             | "    |                  |              |          |             |          |          | "              |       |
| Chlorobenzene        |                       | "                   | ND          |           | 0.00100   | "             | "    |                  |              |          |             |          |          |                |       |
| Chloroform           |                       | "                   | 0.00628     |           | 0.00100   | "             | "    |                  |              |          |             |          |          |                |       |
| 1,2-Dichloroethane   |                       |                     | ND          |           | 0.00100   | "             |      |                  |              |          |             |          |          |                |       |

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107%

108%

95%

98%

ND

ND

ND

ND

Recovery:

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0.00100

0.00100

0.00100

0.00100

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Limits: 63-140%

73-131%

80-120%

79-125%

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TestAmerica Seattle

1,1-Dichloroethene

Tetrachloroethene

Surrogate(s):

Trichloroethene

Vinyl chloride

Allins Ć

Curtis D. Armstrong, Project Manager

1,2-Dichloroethane-d4

Dibromofluoromethane

4-Bromofluorobenzene

Toluene-d8

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.



05/31/09 12:06

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# Stantec

PO Box 230, 12034 - (134th Ct NE Ste 102, zip 98052) Redmond, WA/USA 98073

COP 3485 Project Name: Project Number: Project Manager:

212302155 Rick Fetterly

Report Created: 06/05/09 10:48

# TCLP Volatile Organic Compounds by EPA Method 1311/8260B - Laboratory Quality Control Results TestAmerica Nashville

| QC Batch             | n: 9054721             | Water P             | reparation | Method: EF | PA 5030B |              |      |                  |              |          |             |          |          |                |       |
|----------------------|------------------------|---------------------|------------|------------|----------|--------------|------|------------------|--------------|----------|-------------|----------|----------|----------------|-------|
| Analyte              |                        | Method              | Result     | MDL*       | MRL      | Units        | Dil  | Source<br>Result | Spike<br>Amt | %<br>REC | (Limits)    | %<br>RPD | (Limits) | Analyzed       | Notes |
| LCS (9054721-        | -BS1)                  |                     |            |            |          |              |      |                  | Extr         | acted:   | 05/30/09 19 | :41      |          |                |       |
| Benzene              |                        | SW846<br>1311/8260B | 56.5       |            |          | ug/L         | 0.1x |                  | 50.0         | 113%     | (80-128)    |          |          | 05/31/09 09:50 |       |
| 2-Butanone           |                        |                     | 300        |            |          | "            | "    |                  | 250          | 120%     | (73-126)    |          |          |                |       |
| Carbon Tetrachloride |                        | "                   | 61.1       |            |          | "            | "    |                  | 50.0         | 122%     | (73-133)    |          |          | "              |       |
| Chlorobenzene        |                        | "                   | 50.6       |            |          | "            | "    |                  | "            | 101%     | (80-120)    |          |          |                |       |
| Chloroform           |                        | "                   | 53.9       |            |          | "            | "    |                  | "            | 108%     | (83-126)    |          |          |                |       |
| 1,2-Dichloroethane   |                        |                     | 54.2       |            |          | "            |      |                  | "            | 108%     | (80-128)    |          |          |                |       |
| 1,1-Dichloroethene   |                        |                     | 57.9       |            |          | "            |      |                  | "            | 116%     | (80-120)    |          |          |                |       |
| Tetrachloroethene    |                        |                     | 48.5       |            |          | "            |      |                  | "            | 97%      | (79-136)    |          |          |                |       |
| Trichloroethene      |                        |                     | 59.0       |            |          | "            |      |                  | "            | 118%     | (80-140)    |          |          |                |       |
| Vinyl chloride       |                        | "                   | 49.8       |            |          | "            | "    |                  | "            | 100%     | (52-138)    |          |          | "              |       |
| Surrogate(s):        | 1,2-Dichloroethane-d4  |                     | Recovery:  | 95%        | Lim      | its: 63-140% | "    |                  |              |          |             |          |          | 05/31/09 09:50 |       |
|                      | Dibrom of luoromethane |                     |            | 105%       |          | 73-131%      | "    |                  |              |          |             |          |          | "              |       |
|                      | Toluene-d8             |                     |            | 90%        |          | 80-120%      | "    |                  |              |          |             |          |          | "              |       |
|                      | 4-Bromofluorobenzene   |                     |            | 95%        |          | 79-125%      | "    |                  |              |          |             |          |          | "              |       |
| LCS Dup (905         | 4721-BSD1)             |                     |            |            |          |              |      |                  | Extr         | acted:   | 05/30/09 19 | :41      |          |                |       |
| Benzene              |                        | SW846<br>1311/8260B | 56.9       |            |          | ug/L         | 0.1x |                  | 50.0         | 114%     | (80-128)    | 0.6%     | (24)     | 05/31/09 10:17 |       |
| 2-Butanone           |                        | "                   | 312        |            |          | "            | "    |                  | 250          | 125%     | (73-126)    | 4%       | (33)     | "              |       |
| Carbon Tetrachloride |                        | "                   | 61.3       |            |          | "            |      |                  | 50.0         | 123%     | (73-133)    | 0.3%     | (26)     |                |       |
| Chlorobenzene        |                        | "                   | 50.4       |            |          |              |      |                  | "            | 101%     | (80-120)    | 0.5%     | (27)     | "              |       |

| euroon rendemente  |                       |   | 01.5      |      |               |      | 20.0  | 120/0 | (15 155) | 0.570 | (20) |                |  |
|--------------------|-----------------------|---|-----------|------|---------------|------|-------|-------|----------|-------|------|----------------|--|
| Chlorobenzene      |                       | " | 50.4      |      | "             |      | <br>  | 101%  | (80-120) | 0.5%  | (27) | "              |  |
| Chloroform         |                       | " | 54.3      |      | "             |      | <br>  | 109%  | (83-126) | 0.8%  | (25) | "              |  |
| 1,2-Dichloroethane |                       | " | 55.2      |      | "             |      | <br>  | 110%  | (80-128) | 2%    | "    | "              |  |
| 1,1-Dichloroethene |                       |   | 57.5      |      | "             | "    | <br>  | 115%  | (80-120) | 0.7%  | (26) | "              |  |
| Tetrachloroethene  |                       |   | 48.5      |      | "             | "    | <br>  | 97%   | (79-136) | 0.02% | "    | "              |  |
| Trichloroethene    |                       |   | 59.6      |      | "             | "    | <br>  | 119%  | (80-140) | 0.9%  | "    | "              |  |
| Vinyl chloride     |                       |   | 50.2      |      | "             | "    | <br>" | 100%  | (52-138) | 0.8%  | (25) |                |  |
| Surrogate(s):      | 1,2-Dichloroethane-d4 |   | Recovery: | 96%  | Limits: 63-14 | 0% " |       |       |          |       |      | 05/31/09 10:17 |  |
|                    | Dibromofluoromethane  |   |           | 105% | 73-13         | 1% " |       |       |          |       |      | "              |  |
|                    | Toluene-d8            |   |           | 89%  | 80-12         | 0% " |       |       |          |       |      | "              |  |
|                    | 4-Bromofluorobenzene  |   |           | 95%  | 79-12         | 5% " |       |       |          |       |      | "              |  |
|                    |                       |   |           |      |               |      |       |       |          |       |      |                |  |

TestAmerica Seattle

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Curtis D. Armstrong, Project Manager





| Stantec  | Project Name:    | COP 3485      |                 |
|--|------------------|---------------|-----------------|
| PO Box 230, 12034 - (134th Ct NE Ste 102, zip 98052) | Project Number:  | 212302155     | Report Created: |
| Redmond, WA/USA 98073                                | Project Manager: | Rick Fetterly | 06/05/09 10:48  |

TCLP Volatile Organic Compounds by EPA Method 1311/8260B - Laboratory Quality Control Results TestAmerica Nashville

| QC Batel             | h: 9054721            | Water P             | reparation | Method: E | PA 5030B   |               |     |                  |              |          |             |          |          |                |       |   |
|----------------------|-----------------------|---------------------|------------|-----------|------------|---------------|-----|------------------|--------------|----------|-------------|----------|----------|----------------|-------|---|
| Analyte              |                       | Method              | Result     | MDL*      | MRL        | Units         | Dil | Source<br>Result | Spike<br>Amt | %<br>REC | (Limits)    | %<br>RPD | (Limits) | Analyzed       | Notes |   |
| Matrix Spike         | (9054721-MS1)         |                     |            |           | QC Source: | NSE2253-01    |     |                  | Extr         | acted:   | 05/30/09 19 | :41      |          |                |       |   |
| Benzene              |                       | SW846<br>1311/8260B | 0.554      |           | 0.0100     | mg/L          | 1x  | ND               | 0.500        | 111%     | (68-153)    |          |          | 05/31/09 18:56 |       |   |
| 2-Butanone           |                       | "                   | 2.82       |           | 0.250      | "             | "   | ND               | 2.50         | 113%     | (46-147)    |          |          |                |       |   |
| Carbon Tetrachloride | 2                     | "                   | 0.626      |           | 0.0100     | "             | "   | ND               | 0.500        | 125%     | (67-155)    |          |          |                |       |   |
| Chlorobenzene        |                       | "                   | 0.476      |           | 0.0100     | "             | "   | ND               | "            | 95%      | (75-147)    |          |          |                |       |   |
| Chloroform           |                       | "                   | 0.527      |           | 0.0100     | "             | "   | 0.00330          | "            | 105%     | (69-149)    |          |          |                |       | В |
| 1,2-Dichloroethane   |                       | "                   | 0.518      |           | 0.0100     | "             | "   | ND               | "            | 104%     | (68-150)    |          |          |                |       |   |
| 1,1-Dichloroethene   |                       | "                   | 0.572      |           | 0.0100     | "             | "   | ND               | "            | 114%     | (68-142)    |          |          |                |       |   |
| Tetrachloroethene    |                       | "                   | 0.482      |           | 0.0100     | "             | "   | ND               | "            | 96%      | (61-176)    |          |          |                |       |   |
| Trichloroethene      |                       | "                   | 0.590      |           | 0.0100     | "             | "   | ND               | "            | 118%     | (74-152)    |          |          |                |       |   |
| Vinyl chloride       |                       | "                   | 0.473      |           | 0.0100     | "             | "   | ND               | "            | 95%      | (43-147)    |          |          | "              |       |   |
| Surrogate(s):        | 1,2-Dichloroethane-d4 |                     | Recovery:  | 95%       | Lin        | nits: 63-140% | "   |                  |              |          |             |          |          | 05/31/09 18:56 |       |   |
|                      | Dibromofluoromethane  |                     |            | 105%      |            | 73-131%       | "   |                  |              |          |             |          |          | "              |       |   |
|                      | Toluene-d8            |                     |            | 87%       |            | 80-120%       | "   |                  |              |          |             |          |          | "              |       |   |
|                      | 4-Bromofluorobenzene  |                     |            | 97%       |            | 79-125%       | "   |                  |              |          |             |          |          | "              |       |   |
| Matrix Spike D       | oup (9054721-MSD      | 1)                  |            |           | QC Source: | NSE2253-01    |     |                  | Extr         | acted:   | 05/30/09 19 | :41      |          |                |       |   |
| Benzene              |                       | SW846<br>1311/8260B | 0.557      |           | 0.0100     | mg/L          | 1x  | ND               | 0.500        | 111%     | (68-153)    | 0.6%     | (24)     | 05/31/09 19:23 |       |   |
| 2-Butanone           |                       |                     | 2.89       |           | 0.250      |               | "   | ND               | 2.50         | 116%     | (46-147)    | 2%       | (33)     |                |       |   |
| Carbon Tetrachloride | e                     | "                   | 0.633      |           | 0.0100     | "             | "   | ND               | 0.500        | 127%     | (67-155)    | 1%       | (26)     |                |       |   |
| Chlorobenzene        |                       | "                   | 0.487      |           | 0.0100     | "             | "   | ND               | "            | 97%      | (75-147)    | 2%       | (27)     |                |       |   |
| Chloroform           |                       | "                   | 0.526      |           | 0.0100     | "             | "   | 0.00330          | "            | 104%     | (69-149)    | 0.3%     | (25)     |                |       | В |
| 1,2-Dichloroethane   |                       | "                   | 0.516      |           | 0.0100     | "             | "   | ND               | "            | 103%     | (68-150)    | 0.5%     |          | "              |       |   |

0.0100

0.0100

0.0100

0.0100

..

Limits: 63-140%

73-131%

80-120%

79-125%

ND

ND

ND

ND

...

"

"

"

,,

117%

100%

120%

96%

..

(68-142)

(61-176)

(74-152)

(43-147)

2% (26)

3% "

2% "

2% (25)

...

...

05/31/09 19:23

"

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93%

104%

86%

96%

0.583

0.498

0.601

0.482

Recovery:

...

..

TestAmerica Seattle

1,1-Dichloroethene

Tetrachloroethene

Surrogate(s):

Trichloroethene

Vinyl chloride

Allin C

Curtis D. Armstrong, Project Manager

1,2-Dichloroethane-d4

Dibromofluoromethane

4-Bromofluorobenzene

Toluene-d8

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.



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| Stantec  | Project Name:    | COP 3485      |                 |
|--|------------------|---------------|-----------------|
| PO Box 230, 12034 - (134th Ct NE Ste 102, zip 98052) | Project Number:  | 212302155     | Report Created: |
| Redmond, WA/USA 98073                                | Project Manager: | Rick Fetterly | 06/05/09 10:48  |
|  |                  |               |                 |
|  |                  |               |                 |

#### **CERTIFICATION SUMMARY**

#### TestAmerica Seattle

| Method         | Matrix | Nelac | Washington |  |
|----------------|--------|-------|------------|--|
| NWTPH Modified | Air    |       |            |  |

#### Subcontracted Laboratories

TestAmerica Nashville NELAC Cert #E87358, Washington Cert #C1712

2960 Foster Creighton Drive - Nashville, TN 37204

Method Performed: SW846 1311/8260B Samples: BSE0224-06

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC).

TestAmerica Seattle

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Curtis D. Armstrong, Project Manager





| Stantec  | Project Name:    | COP 3485      |                 |
|--|------------------|---------------|-----------------|
| PO Box 230, 12034 - (134th Ct NE Ste 102, zip 98052) | Project Number:  | 212302155     | Report Created: |
| Redmond, WA/USA 98073                                | Project Manager: | Rick Fetterly | 06/05/09 10:48  |
|  |                  |               |                 |

#### **Notes and Definitions**

Report Specific Notes:

B - Analyte was detected in the associated Method Blank.

#### Laboratory Reporting Conventions:

- DET Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only. ND Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate). NR/NA \_ Not Reported / Not Available Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight. dry Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported wet on a Wet Weight Basis. RPD RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries). METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table. MRL MDL\* METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. \*MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic
   Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*.

   Signature
   Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory.

   Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle

est to

Curtis D. Armstrong, Project Manager



| TestAmerica                             |                          | 11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244<br>11922 E. First Ave, Spokane, WA 99206-5302<br>9405 SW Nimbus Ave,Beaverton, OR 97008-7145 |  |
|---|--------------------------|---|--|
| THE LEADER IN ENVIRONMENTAL TESTING     |                          | 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119   | , AK 99502-1119 907-563-9200 FAX 563-9210                  |
| CH                                      | HAIN OF CUSTODY REPORT   | Y REPORT  | Work Order #: BSE0224                                      |
| -                                       | INVOICE TO: 1 T II . 1 * |   | TURNAROUND REQUEST   |
| REPORT TO: Rick, Setering Estantec. Com |                          |   | in Business Days *   |
| linda, rau<br>17.034 17                 |                          |   | Organic & Inorganic Analyses                               |
| 255 2421650                             | P.O. NUMBER:             |   | roleum Hydrocarbon Analyses                                |
| در <del>ک</del> ر ک                     | PRESERVATIVE             | TIVE  | 5         4         3         2         1         <1       |
| PROJECT NUMBER: 21230215                | REOUTESTED ANALYSES      | NALYSES   | OTHER Samorifier   |
| ×                                       |                          |   | 12   |
| CLIENT SAMPLE SAMPLING                  |                          |   | MATRIX # OF LOCATION/ TA<br>(W, S, O) CONT. COMMENTS WO ID |
| X X on bol 12/2 XX                      |                          |   | AIR 1 BUSS WAU   |
| m. 2 1 0 945 XX                         |                          |   |  |
| Mid 1 6 geo X X                         |                          |   |  |
| e<br>tut                                |                          |   |  |
| SVETUP KINDGE 1000 XX                   |                          |   | AIR 1 1 1-05   |
| R 5/2/20 B                              | -                        |   | CAREED 3485 WAR  |
| 1                                       | -                        |   | 2  |
|   |                          |   |  |
|   |                          |   |  |
|   | 4                        |   |  |
| RELEASED BY: J. Rent LAND FIRM: STANTEC |                          | RECEIVED BY: CURUCH INUOURF<br>PRINT NAME: COLFFE WEAVEP  | DATE: 09: 21:09<br>FERME THU SOUTO TIME: 1305              |
|   | DATE:<br>TTATE:          | RECEIVED BY:<br>DOTATIONARD   | DATE: DATE: TTMP.  |
| FKUNI NAME:<br>ADDITTONAL REMARKS:      |                          |   | TEMP:  |
|   |                          |   | 6  |
|   |                          |   | TAL-1000(0408)   |

| Paperwork to | PM – | Date: | Time: |
|--------------|------|-------|-------|
|              |      |       |       |

Non-Conformances? Circle Y or N (If Y, see other side)

| TAT:      |             |
|-----------|-------------|
| Page Time | & Initials: |

|   | TEST AMERICA   | SAMPLE RECEIPT C   | HECKLIST  |
|---|--|--|---|
| Received By:  | Logged-in By:  | Unpacked/Labeled B   | y: Cooler ID:   |
| (applies to temp at receipt)<br>Date: <u>05-21-04</u><br>Time: <u>1305</u><br>Initials: <u>0W</u> | Date:_ <u>05.2(</u><br>Time: <u>1333</u><br>Initials: <u>Cw</u>  | Date: <u>05-21</u><br>Time: <u>1337</u><br>Initials: <u>CW</u> | Work Order No.  |
| <u>Container Type:</u><br>Cooler<br>Box<br>None/Other <u>M</u> U                                  | Ship Contair<br>On Bottles   | <u>C Seals:</u><br>herSign By<br>Date                          | Packing Material:<br>Bubble Bags Styrofoam<br>Foam Packs<br>None/Other  |
| Loose Ice<br>None/Other<br>Cooler Temperature ( <u>//</u>   | Place<br>Y or<br>Initia  | N of NA)<br>I/date/time<br>Glass (Frozen filters, Te           | Received Via: Bill#:        Fed Ex      Client        UPS      TA Courier        DHL      Mid Valley        Senvoy      TDP        GS      Other         dlars and aqueous Metals exempt)      Trip Blank? Y or N or NA |
| BP, OPLC,ARCO-Tem<br>(initial/date/time):<br>Comments:  |  | every 15 minutes:  |   |
| IDs/time/date match C   | <ul> <li>Ø or N</li> <li>Ø or N</li> <li>Ø or N</li> <li>OC?</li> <li>Ø or N</li> <li>OC?</li> <li>Ø or N</li> </ul> | Water VOAs: F  | reserved? Y or N or NA<br>me? (Y or N   |
| Hold Times in hold?<br><b>PROJECT MANAGEN</b><br>Is the Chain of Custod<br>Comments,Problems_     | <b>ΛΕΝΤ</b><br>ly complete?  |  | Y or N If N, circle the items that were incomplete  |
| Total access set up?<br>Has client been contacted i<br>PM Initials:                               |  |  | Y or N<br>Y or N If Y,/<br>Date Time  |



June 26, 2009

Rick Fetterly Stantec PO Box 230, 12034 - (134th Ct NE Ste 102, zip 98052) Redmond, WA/USA 98073

RE: COP 3485

Enclosed are the results of analyses for samples received by the laboratory on 06/25/09 10:10. The following list is a summary of the Work Orders contained in this report, generated on 06/26/09 11:49.

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

Work Order BSF0190 Project COP 3485 ProjectNumber 3485

TestAmerica Seattle

and the

Curtis D. Armstrong, Project Manager





| Stantec  | Project Name:    | COP 3485      |                 |
|--|------------------|---------------|-----------------|
| PO Box 230, 12034 - (134th Ct NE Ste 102, zip 98052) | Project Number:  | 3485          | Report Created: |
| Redmond, WA/USA 98073                                | Project Manager: | Rick Fetterly | 06/26/09 11:49  |

# ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled   | Date Received  |
|-----------|---------------|--------|----------------|----------------|
| Tot Eff   | BSF0190-01    | Air    | 06/25/09 08:20 | 06/25/09 10:10 |
| MID 2     | BSF0190-02    | Air    | 06/25/09 08:30 | 06/25/09 10:10 |
| MID 1     | BSF0190-03    | Air    | 06/25/09 08:35 | 06/25/09 10:10 |
| Tot INF   | BSF0190-04    | Air    | 06/25/09 08:40 | 06/25/09 10:10 |
| SVE INF   | BSF0190-05    | Air    | 06/25/09 08:50 | 06/25/09 10:10 |

TestAmerica Seattle

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Curtis D. Armstrong, Project Manager





| Stantec  | Project Name:    | COP 3485      |                 |
|--|------------------|---------------|-----------------|
| PO Box 230, 12034 - (134th Ct NE Ste 102, zip 98052) | Project Number:  | 3485          | Report Created: |
| Redmond, WA/USA 98073                                | Project Manager: | Rick Fetterly | 06/26/09 11:49  |

# Gasoline Hydrocarbons (Benzene to Napthalene) and BTEX in Air by NWTPH-G and EPA 8021B TestAmerica Seattle

| Analyte                           | Method            | Result | MDL*  | MRL    | Units      | Dil         | Batch   | Prepared       | Analyzed       | Notes |
|-----------------------------------|-------------------|--------|-------|--------|------------|-------------|---------|----------------|----------------|-------|
| BSF0190-01 (Tot Eff)              |                   | Air    |       | Sampl  | ed: 06/2   | 25/09 08:20 |         |                |                |       |
| Gasoline Range Hydrocarbons       | NWTPH<br>Modified | ND     |       | 10.0   | mg/m³ Air  | 1x          | 9F25006 | 06/25/09 10:30 | 06/25/09 16:01 |       |
| Gasoline Range Hydrocarbons (v/v) | "                 | ND     |       | 2.36   | ppmv       | "           | "       | "              | "              |       |
| Benzene (v/v)                     | "                 | ND     |       | 0.0308 | "          | "           | "       | "              | "              |       |
| Toluene (v/v)                     |                   | ND     |       | 0.0261 | "          | "           | "       |                |                |       |
| Ethylbenzene (v/v)                | "                 | ND     |       | 0.0227 | "          | "           | "       | "              | "              |       |
| Xylenes, total (v/v)              | "                 | ND     |       | 0.0454 | "          |             | "       | "              | "              |       |
| Benzene                           | "                 | ND     |       | 0.100  | mg/m³ Air  | "           | "       | "              | "              |       |
| Toluene                           |                   | ND     |       | 0.100  | "          |             | "       |                | "              |       |
| Ethylbenzene                      | "                 | ND     |       | 0.100  | "          |             | "       |                | "              |       |
| Xylenes (total)                   | "                 | ND     |       | 0.200  | "          | "           |         | "              | "              |       |
| Surrogate(s): 4-BFB (FID)         |                   |        | 75.0% |        | 57 - 130 % | "           |         |                | "              |       |
| 4-BFB (PID)                       |                   |        | 104%  |        | 65 - 125 % | "           |         |                | "              |       |

| BSF0190-02 (MID 2)                |                   | Air |       |        | Sample     | ed: 06/2 | 5/09 08:30 |                |                |  |
|-----------------------------------|-------------------|-----|-------|--------|------------|----------|------------|----------------|----------------|--|
| Gasoline Range Hydrocarbons       | NWTPH<br>Modified | ND  |       | 10.0   | mg/m³ Air  | 1x       | 9F25006    | 06/25/09 10:30 | 06/25/09 17:16 |  |
| Gasoline Range Hydrocarbons (v/v) | "                 | ND  |       | 2.36   | ppmv       | "        | "          | "              | "              |  |
| Benzene (v/v)                     |                   | ND  |       | 0.0308 | "          |          | "          | "              | "              |  |
| Toluene (v/v)                     |                   | ND  |       | 0.0261 | "          |          | "          | "              | "              |  |
| Ethylbenzene (v/v)                | "                 | ND  |       | 0.0227 | "          | "        | "          | "              | "              |  |
| Xylenes, total (v/v)              |                   | ND  |       | 0.0454 | "          |          | "          | "              | "              |  |
| Benzene                           |                   | ND  |       | 0.100  | mg/m³ Air  |          | "          | "              | "              |  |
| Toluene                           |                   | ND  |       | 0.100  | "          |          | "          | "              | "              |  |
| Ethylbenzene                      |                   | ND  |       | 0.100  | "          |          | "          | "              | "              |  |
| Xylenes (total)                   | "                 | ND  |       | 0.200  | "          | "        | "          | "              | "              |  |
| Surrogate(s): 4-BFB (FID)         |                   |     | 69.1% |        | 57 - 130 % | "        |            |                | "              |  |
| 4-BFB (PID)                       |                   |     | 101%  |        | 65 - 125 % | "        |            |                | "              |  |

| BSF0190-03 (MID 1)                |                   | Air |            | Samp      | led: 06/2 | 25/09 08:35 |                |                |  |
|-----------------------------------|-------------------|-----|------------|-----------|-----------|-------------|----------------|----------------|--|
| Gasoline Range Hydrocarbons       | NWTPH<br>Modified | ND  | <br>10.0   | mg/m³ Air | 1x        | 9F25006     | 06/25/09 10:30 | 06/25/09 18:31 |  |
| Gasoline Range Hydrocarbons (v/v) | "                 | ND  | <br>2.36   | ppmv      |           |             |                | "              |  |
| Benzene (v/v)                     | "                 | ND  | <br>0.0308 |           |           |             |                | "              |  |
| Toluene (v/v)                     | "                 | ND  | <br>0.0261 |           |           | "           |                | "              |  |
| Ethylbenzene (v/v)                | "                 | ND  | <br>0.0227 |           |           | "           |                | "              |  |
| Xylenes, total (v/v)              | "                 | ND  | <br>0.0454 |           |           | "           |                | "              |  |
| Benzene                           | "                 | ND  | <br>0.100  | mg/m³ Air |           | "           |                | "              |  |
| Toluene                           | "                 | ND  | <br>0.100  |           |           | "           |                | "              |  |
| Ethylbenzene                      | "                 | ND  | <br>0.100  |           |           | "           |                | "              |  |
| Xylenes (total)                   | "                 | ND  | <br>0.200  |           |           | "           |                | "              |  |

TestAmerica Seattle

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The results in this report apply to the samples analyzed in accordance with the chain

of custody document. This analytical report shall not be reproduced except in full,

without the written approval of the laboratory.





| Stantec  | Project Name:    | COP 3485      |                 |
|--|------------------|---------------|-----------------|
| PO Box 230, 12034 - (134th Ct NE Ste 102, zip 98052) | Project Number:  | 3485          | Report Created: |
| Redmond, WA/USA 98073                                | Project Manager: | Rick Fetterly | 06/26/09 11:49  |

# Gasoline Hydrocarbons (Benzene to Napthalene) and BTEX in Air by NWTPH-G and EPA 8021B

|                                   |                   |        | TestAm | nerica Se | attle      |           |             |                |                |       |
|-----------------------------------|-------------------|--------|--------|-----------|------------|-----------|-------------|----------------|----------------|-------|
| Analyte                           | Method            | Result | MDL*   | MRL       | Units      | Dil       | Batch       | Prepared       | Analyzed       | Notes |
| BSF0190-03 (MID 1)                |                   | Air    |        |           | Sampl      | led: 06/2 | 25/09 08:35 |                |                |       |
| Surrogate(s): 4-BFB (FID)         |                   |        | 73.9%  |           | 57 - 130 % | lx        |             |                | 06/25/09 18:31 |       |
| 4-BFB (PID)                       |                   |        | 104%   |           | 65 - 125 % | "         |             |                | "              |       |
| BSF0190-04 (Tot INF)              |                   | Air    |        |           | Sampl      | ed: 06/2  | 25/09 08:40 |                |                |       |
| Gasoline Range Hydrocarbons       | NWTPH<br>Modified | 54.6   |        | 10.0      | mg/m³ Air  | 1x        | 9F25006     | 06/25/09 10:30 | 06/25/09 17:54 |       |
| Gasoline Range Hydrocarbons (v/v) | "                 | 12.9   |        | 2.36      | ppmv       | "         | "           | "              | "              |       |
| Benzene (v/v)                     | "                 | 0.349  |        | 0.0308    | "          |           | "           | "              | "              |       |
| Toluene (v/v)                     | "                 | 0.710  |        | 0.0261    | "          | "         | "           | "              | "              |       |
| Ethylbenzene (v/v)                | "                 | 0.0233 |        | 0.0227    | "          |           | "           | "              | "              |       |
| Xylenes, total (v/v)              | "                 | 0.602  |        | 0.0454    | "          |           | "           | "              | "              |       |
| Benzene                           | "                 | 1.13   |        | 0.100     | mg/m³ Air  |           | "           | "              | "              |       |
| Toluene                           | "                 | 2.72   |        | 0.100     | "          | "         | "           | "              | "              |       |
| Ethylbenzene                      | "                 | 0.103  |        | 0.100     | "          | "         | "           |                | "              |       |
| Xylenes (total)                   | "                 | 2.66   |        | 0.200     | "          | "         | "           | "              | "              |       |
| Surrogate(s): 4-BFB (FID)         |                   |        | 73.5%  |           | 57 - 130 % | "         |             |                | "              |       |
| 4-BFB (PID)                       |                   |        | 84.2%  |           | 65 - 125 % | "         |             |                | "              |       |
| BSF0190-05 (SVE INF)              |                   | Air    |        |           | Sampl      | led: 06/2 | 25/09 08:50 |                |                |       |
| Gasoline Range Hydrocarbons       | NWTPH<br>Modified | 278    |        | 10.0      | mg/m³ Air  | 1x        | 9F25006     | 06/25/09 10:30 | 06/26/09 08:35 | A-0   |
| Gasoline Range Hydrocarbons (v/v) | "                 | 65.5   |        | 2.36      | ppmv       |           | "           | "              | "              | A-0   |

| " | 65.5             |  | 2.36  | ppmv  |   |   |   | "   | A-01  |
|---|------------------|--|---|---|---|---|---|---|---|
| " | 1.73             |  | 0.0308  | "   |   |   | "   | "   |   |
| " | 3.21             |  | 0.0261  | "   |   |   | "   | "   |   |
| " | 0.107            |  | 0.0227  | "   |   |   | "   | "   |   |
| " | 2.52             |  | 0.0454  | "   |   |   | "   | "   |   |
| " | 5.62             |  | 0.100 mg  | y/m³ Air  |   |   |   | "   |   |
| " | 12.3             |  | 0.100   | "   |   |   | "   | "   |   |
| " | 0.470            |  | 0.100   | "   |   | "   |   | "   |   |
| " | 11.1             |  | 0.200   | "   | "   | "   | "   | "   |   |
|   |                  | 87.8%  | 5   | 7 - 130 %   | "   |   |   | "   |   |
|   |                  | 73.0%  | 6   | 5 - 125 %   | "   |   |   | "   |   |
|   | "<br>"<br>"<br>" | " 1.73<br>" 3.21<br>" 0.107<br>" 2.52<br>" 5.62<br>" 12.3<br>" 0.470 | "       1.73          "       3.21          "       0.107          "       2.52          "       5.62          "       12.3          "       0.470          "       11.1          87.8%       87.8% | "     1.73      0.0308       "     3.21      0.0261       "     0.107      0.0227       "     2.52      0.0454       "     5.62      0.100       "     12.3      0.100       "     0.470      0.100       "     11.1      0.200 | "     1.73      0.0308     "       "     3.21      0.0261     "       "     0.107      0.0227     "       "     2.52      0.0454     "       "     5.62      0.100     mg/m³ Air       "     12.3      0.100     "       "     0.470      0.100     "       "     11.1      0.200     " | 65.5        2.56       ppmv         "       1.73        0.0308       "       "         "       3.21        0.0261       "       "         "       0.107        0.0227       "       "         "       2.52        0.0454       "       "         "       5.62        0.100       mg/m³ Air       "         "       12.3        0.100       "       "         "       0.470        0.100       "       "         "       11.1        0.200       "       " | 65.5        2.36       ppmv          "       1.73        0.0308       "       "       "         "       3.21        0.0261       "       "       "         "       0.107        0.0227       "       "       "         "       2.52        0.0454       "       "       "         "       5.62        0.100       mg/m³ Air       "       "         "       12.3        0.100       "       "       "         "       0.470        0.100       "       "       "         87.8%       57 - 130 %       "       "       "       1 | "       65.5        2.36       ppmv       "       "         "       1.73        0.0308       "       "       "       "         "       3.21        0.0261       "       "       "       "         "       0.107        0.0227       "       "       "       "         "       2.52        0.0454       "       "       "       "         "       2.52        0.100       mg/m³ Air       "       "       "         "       12.3        0.100       "       "       "       "         "       0.470        0.100       "       "       "       "         "       11.1        0.200       "       "       "       " | "       65.5        2.36       ppmv       " |

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Curtis D. Armstrong, Project Manager





| Stantec  | Project Name:    | COP 3485      |                 |
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| PO Box 230, 12034 - (134th Ct NE Ste 102, zip 98052) | Project Number:  | 3485          | Report Created: |
| Redmond, WA/USA 98073                                | Project Manager: | Rick Fetterly | 06/26/09 11:49  |

# Gasoline Hydrocarbons (Benzene to Napthalene) and BTEX in Air by NWTPH-G and EPA 8021B - Laboratory Quality Control Results TestAmerica Seattle

| QC Batch: 9F25006                        | Air Pro           | eparation M | lethod: EPA   | 5030B ( | P/T)                      |     |                  |              |          |             |          |         |                     |      |
|--|-------------------|-------------|---------------|---------|---------------------------|-----|------------------|--------------|----------|-------------|----------|---------|---------------------|------|
| Analyte                                  | Method            | Result      | MDL*          | MRL     | Units                     | Dil | Source<br>Result | Spike<br>Amt | %<br>REC | (Limits)    | %<br>RPD | (Limits | ) Analyzed          | Note |
| Blank (9F25006-BLK1)                     |                   |             |               |         |                           |     |                  | Extr         | acted:   | 06/25/09 10 | :30      |         |                     |      |
| Gasoline Range Hydrocarbons              | NWTPH             | ND          |               | 10.0    | mg/m³ Air                 | 1x  |                  |              |          |             |          |         | 06/25/09 12:46      |      |
| Gasoline Range Hydrocarbons (v/v)        | Modified          | ND          |               | 2.36    | ppmv                      |     |                  |              |          |             |          |         |                     |      |
| Benzene (v/v)                            | "                 | ND          |               | 0.0308  | "                         |     |                  |              |          |             |          |         |                     |      |
| Coluene (v/v)                            |                   | ND          |               | 0.0261  | "                         |     |                  |              |          |             |          |         |                     |      |
| Ethylbenzene (v/v)                       |                   | ND          |               | 0.0227  | "                         |     |                  |              |          |             |          |         |                     |      |
| Kylenes, total (v/v)                     |                   | ND          |               | 0.0454  | "                         |     |                  |              |          |             |          |         |                     |      |
| Benzene                                  |                   | ND          |               | 0.100   | mg/m³ Air                 |     |                  |              |          |             |          |         |                     |      |
| Toluene                                  |                   | ND          |               | 0.100   | "                         | "   |                  |              |          |             |          |         |                     |      |
| Ethylbenzene                             |                   | ND          |               | 0.100   | "                         | "   |                  |              |          |             |          |         |                     |      |
| Xylenes (total)                          |                   | ND          |               | 0.200   | "                         |     |                  |              |          |             |          |         |                     |      |
| Surrogate(s): 4-BFB (FID)<br>4-BFB (PID) |                   | Recovery:   | 77.6%<br>101% | L       | imits: 57-130%<br>65-125% | "   |                  |              |          |             |          |         | 06/25/09 12:46<br>" |      |
| LCS (9F25006-BS1)                        |                   |             |               |         |                           |     |                  | Extr         | acted:   | 06/25/09 10 | :30      |         |                     |      |
| Basoline Range Hydrocarbons              | NWTPH<br>Modified | 95.4        |               | 10.0    | mg/m³ Air                 | 1x  |                  | 100          | 95.4%    | (42-137)    |          |         | 06/25/09 13:32      |      |
| Surrogate(s): 4-BFB (FID)                |                   | Recovery:   | 83.9%         | I       | imits: 57-130%            | "   |                  |              |          |             |          |         | 06/25/09 13:32      |      |
| LCS (9F25006-BS2)                        |                   |             |               |         |                           |     |                  | Extr         | acted:   | 06/25/09 10 | :30      |         |                     |      |
| Benzene                                  | NWTPH<br>Modified | 1.54        |               | 0.100   | mg/m³ Air                 | 1x  |                  | 2.00         | 77.1%    | (40-150)    |          |         | 06/25/09 14:47      |      |
| Toluene                                  | "                 | 1.61        |               | 0.100   | "                         |     |                  | "            | 80.5%    | "           |          |         |                     |      |
| Ethylbenzene                             |                   | 1.58        |               | 0.100   | "                         |     |                  | "            | 79.2%    |             |          |         |                     |      |
| Xylenes (total)                          |                   | 4.75        |               | 0.200   | "                         |     |                  | 6.00         | 79.1%    | (42-150)    |          |         |                     |      |
| Surrogate(s): 4-BFB (PID)                |                   | Recovery:   | 103%          | I       | imits: 65-125%            | "   |                  |              |          |             |          |         | 06/25/09 14:47      |      |
| LCS Dup (9F25006-BSD1)                   |                   |             |               |         |                           |     |                  | Extr         | acted:   | 06/25/09 10 | :30      |         |                     |      |
| Gasoline Range Hydrocarbons              | NWTPH<br>Modified | 75.6        |               | 10.0    | mg/m³ Air                 | 1x  |                  | 100          | 75.6%    | (42-137)    | 23.1%    | % (45)  | 06/25/09 14:09      |      |
| Surrogate(s): 4-BFB (FID)                |                   | Recovery:   | 81.0%         | L       | imits: 57-130%            | "   |                  |              |          |             |          |         | 06/25/09 14:09      |      |
| LCS Dup (9F25006-BSD2)                   |                   |             |               |         |                           |     |                  | Extr         | acted:   | 06/25/09 10 | :30      |         |                     |      |
| Benzene                                  | NWTPH<br>Modified | 1.50        |               | 0.100   | mg/m³ Air                 | 1x  |                  | 2.00         | 75.1%    | (40-150)    | 2.60%    | 6 (35)  | 06/25/09 15:24      |      |
| oluene                                   | "                 | 1.54        |               | 0.100   | "                         | "   |                  | "            | 77.1%    |             | 4.30%    | 6 "     |                     |      |
| thylbenzene                              |                   | 1.51        |               | 0.100   | "                         | "   |                  | "            | 75.6%    |             | 4.59%    | 6 "     | "                   |      |
| Kylenes (total)                          |                   | 4.55        |               | 0.200   | "                         | "   |                  | 6.00         | 75.8%    | (42-150)    | 4.28%    | 6 "     |                     |      |
| Surrogate(s): 4-BFB (PID)                |                   | Recovery:   | 103%          | I       | imits: 65-125%            | "   |                  |              |          |             |          |         | 06/25/09 15:24      |      |
|  |                   |             |               |         |                           |     |                  |              |          |             |          |         |                     |      |

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Curtis D. Armstrong, Project Manager

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without the written approval of the laboratory.





| Stantec  | Project Name:    | COP 3485      |                 |
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| PO Box 230, 12034 - (134th Ct NE Ste 102, zip 98052) | Project Number:  | 3485          | Report Created: |
| Redmond, WA/USA 98073                                | Project Manager: | Rick Fetterly | 06/26/09 11:49  |

# Gasoline Hydrocarbons (Benzene to Napthalene) and BTEX in Air by NWTPH-G and EPA 8021B - Laboratory Quality Control Results TestAmerica Seattle

| QC Batch: 9F25006                 | Air Pre           | paration M | ethod: EPA | 5030B (  | Р/Т)           |     |                  |              |          |             |          |         |                |       |
|-----------------------------------|-------------------|------------|------------|----------|----------------|-----|------------------|--------------|----------|-------------|----------|---------|----------------|-------|
| Analyte                           | Method            | Result     | MDL*       | MRL      | Units          | Dil | Source<br>Result | Spike<br>Amt | %<br>REC | (Limits)    | %<br>RPD | (Limits | ) Analyzed     | Notes |
| Duplicate (9F25006-DUP1)          |                   |            |            | QC Sourc | e: BSF0190-01  |     |                  | Extra        | acted:   | 06/25/09 10 | :30      |         |                |       |
| Gasoline Range Hydrocarbons (v/v) | NWTPH<br>Modified | ND         |            | 2.36     | ppmv           | 1x  | ND               |              |          |             | NR       | (30)    | 06/25/09 16:39 |       |
| Gasoline Range Hydrocarbons       | "                 | ND         |            | 10.0     | mg/m³ Air      | "   | ND               |              |          |             | NR       | (20)    |                |       |
| Benzene (v/v)                     | "                 | ND         |            | 0.0308   | ppmv           | "   | ND               |              |          |             | NR       | (30)    | "              |       |
| Γoluene (v/v)                     |                   | ND         |            | 0.0261   | "              |     | ND               |              |          |             | NR       | "       |                |       |
| Ethylbenzene (v/v)                |                   | ND         |            | 0.0227   | "              |     | ND               |              |          |             | NR       | "       |                |       |
| Xylenes, total (v/v)              | "                 | ND         |            | 0.0454   | "              |     | ND               |              |          |             | NR       | "       |                |       |
| Benzene                           | "                 | ND         |            | 0.100    | mg/m³ Air      | "   | ND               |              |          |             | NR       | "       |                |       |
| Foluene                           | "                 | ND         |            | 0.100    | "              | "   | ND               |              |          |             | NR       | (25)    |                |       |
| Ethylbenzene                      | "                 | ND         |            | 0.100    | "              | "   | ND               |              |          |             | NR       | (30)    |                |       |
| Xylenes (total)                   |                   | ND         |            | 0.200    | "              | "   | ND               |              |          |             | NR       | "       | "              |       |
| Surrogate(s): 4-BFB (FID)         |                   | Recovery:  | 73.1%      | I        | imits: 57-130% | "   |                  |              |          |             |          |         | 06/25/09 16:39 |       |
| 4-BFB (PID)                       |                   |            | 102%       |          | 65-125%        | "   |                  |              |          |             |          |         | "              |       |

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Curtis D. Armstrong, Project Manager





| Stantec  | Project Name:    | COP 3485      |                 |
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| PO Box 230, 12034 - (134th Ct NE Ste 102, zip 98052) | Project Number:  | 3485          | Report Created: |
| Redmond, WA/USA 98073                                | Project Manager: | Rick Fetterly | 06/26/09 11:49  |

#### **CERTIFICATION SUMMARY**

# Method Matrix Nelac Washington NWTPH Modified Air Air

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC).

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Curtis D. Armstrong, Project Manager





| Stantec  | Project Name:    | COP 3485      |                 |
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| PO Box 230, 12034 - (134th Ct NE Ste 102, zip 98052) | Project Number:  | 3485          | Report Created: |
| Redmond, WA/USA 98073                                | Project Manager: | Rick Fetterly | 06/26/09 11:49  |

#### **Notes and Definitions**

#### Report Specific Notes:

A-01 - Low bias for analyte recovery due to extensive coelution with the internal standard. The IS peak was not distinguishable and could not be manually integrated.

#### Laboratory Reporting Conventions:

- DET Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA \_ Not Reported / Not Available
- dry Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL\* METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B.
   \*MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic
   Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*.

   Signature
   Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory.

   Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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| THE LEAGER IN ENVIRONMENTAL TESTING     TOTAL REPORT     TOTA   |   |                                       | 11000 F First Aug 7 First Aug 7  |                                       |  |
|--|---|---------------------------------------|--|---------------------------------------|--|
| CHAIN OF CUSTODY REPORT     Wurk Order 6. Corporate<br>2. Contract of the second   | ADER IN ENVIRONMENTAL TESTING           | 2000                                  | 1124 E. FILSI AVG, SPOKAT<br>9405 SW Nimbus Ave,Beavert<br>W International Airport Rd Ste A10, Anchora |                                       | 200 FAX 924-9290<br>200 FAX 906-9210<br>200 FAX 563-9210 |
| COE     INVOCATE<br>Service of any contract     INVOCATE<br>Service of any contract       A Feature Contract     Invocate<br>Service of any contract     Invocate<br>Service of any contract       A Feature Contract     Invocate<br>Service of any contract     Invocate<br>Service of any contract       A Feature Contract     Invocate<br>Service of any contract     Invocate<br>Service of any contract       A Service Contract     Invocate<br>Service of any contract     Invocate<br>Service of any contract       A Service Contract     Invocate<br>Service of any contract     Invocate<br>Service of any contract       A Service Contract     Invocate<br>Service of any contract     Invocate<br>Service of any contract       A Service Contract     Invocate<br>Service of any contract     Invocate<br>Service of any contract       A Service Contract     Invocate<br>Service of any contract     Invocate<br>Service of any contract       A Service Service of any contract     Invocate     Invocate       A  |   | CHAIN OF CUSTODY REI                  | PORT   |                                       | TNAN   |
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| Carling FIRM: STANTEC DATE: 6/24/09 RECEIVED BY: CULLER WILDING FIRM: FI       |   |                                       |  |                                       |  |
| Ranling FIRM: STANTEC DATE: 6/2409 RECEIVED BY CULLER WILLINGULE<br>RANLING FIRM: STANTEC THATE 0/0 PRINT NAME: CULLER WILLINGULE<br>DATE: DATE: DATE: RECEIVED BY: FIRME MILLINGULE FIRME: FI |   |                                       |  |                                       |  |
| DATE:     DATE:       PRINT NAME:     RECEIVED BY:       FIRM:     TIME:         FIRM:     TIME:         Image:     TIME:         Image:     TIME:         Image:     TIME:         Image:     TIME:         Image:     TIME:         Image:     TIME:   | FIRM:                                   | Potec/0                               | TO BE COLLEGE WIGHT  | FIRMETAL SEattle                      |  |
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| TAT:  | Paper               | work to PM – Date:_      | Tim                         | e:                    | Non-Conformances?              |
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| 0   |                     |                          |                             |                       | (If Y, see other side)         |
|   | TEST AMERI          | CA SAMPLE RE             | CEIPT C                     | HECKLIST              |                                |
| Received By:<br>(applies to temp at receipt)            | Logged-in By:       | Unpacked/<br>Labeled by: | Label Re                    | eview by: Cooler I    | D:                             |
| Date: 010:2509  | Date: 06.25         | Date: 06.25              | Date                        | Work Order I          | No. <u>BSF0190</u>             |
| Time: $1010$  | Time: 1017          | Time: 1017               |                             |                       |                                |
| Initials: <u>CW</u>                                     | Initials: <u>CW</u> | Initials: <u>CW</u>      | Initials:                   | Project:              |                                |
| Container <u>Type:</u>                                  |                     | COC Seals:               |                             | Packing Material:     |                                |
| / Cooler  |                     | ntainer s                | Sign By                     | Bubble Bags           | Styrofoam                      |
| Box   |                     | es, /                    |                             | Foam Packs            |                                |
| None/Other  |                     | None                     |                             |                       |                                |
| Refrigerant:  |                     | oil Stir Bars/Encore     |                             | Received Via: Bill    |                                |
| Gel Ice Pack  |                     | Placed in freezer #40    | 5:                          | Fed Ex<br>UPS         | -                              |
|   |                     | r or N or NA             |                             | 0F3<br>DHL            |                                |
| _/X_(None/Other   | I                   | nitial/date/time         |                             | DHE<br>Senvoy         |                                |
|   |                     |                          |                             |                       | Other                          |
| Coolor Tomperature (15                                  | RI. 19.5 00 Plast   | Glass (Frozer            | n filters. Teo              |                       |                                |
| Cooler Temperature ( <u>IF</u><br>Temperature Blank?    | °C or NA col        | Sircle one)<br>mments    |                             | Trip Bla              | ink? Y or N or NA              |
| BP, OPLC,ARCO-Temp<br>(initial/date/time):<br>Comments: | perature monitori   | ng every 15 minutes      | :                           |                       |                                |
| Sample Containers:                                      | ID                  |                          |                             |                       | ID                             |
| Intact?   | (R) or N            |                          | ls Preserve                 | ed? Y or N            | I ONA                          |
| Provided by TA?   | Ø or N              | Clier                    | it QAPP Pre                 | eserved? Y or N       | I OT NA                        |
| Correct Type?   | Øor N               | Adec                     | uate Volun                  | ne? (Por N            |                                |
| #Containers match CO                                    | C? ( or N           | (for te<br>Wate          | sts requested<br>er VOAs: H | )<br>eadspace? Y or N | I or NA                        |
| IDs/time/date match C0                                  | $\aleph$            | Com                      | ments:                      |                       |                                |
| Hold Times in hold?                                     | (Y) or N _          |                          |                             |                       |                                |
| PROJECT MANAGEN   | IENT                |                          |                             |                       |                                |
| Is the Chain of Custody                                 | y complete?         |                          |                             | Y or N If N, circle   | the items that were incomplete |
| Comments, Problems_                                     |                     |                          |                             |                       |                                |
|   |                     |                          |                             |                       |                                |
|   |                     |                          |                             |                       |                                |
| Total access set un?                                    |                     |                          |                             | Y or N                |                                |

Total access set up?

# ATTACHMENT C REMEDIATION SYSTEM LABORATORY AQUEOUS ANALYTICAL REPORTS

ConocoPhillips Company Facility Number 3485 2423 Lind Avenue SW Renton, Washington



Client: Stantec - Conoco Phillips 12034 134th Ct. NE Suite 102 Redmond, WA 98052

| Project Name:     | Conoco Phillips Site# 03485 | SDG Number:    | CPWA0931            |
|-------------------|-----------------------------|----------------|---------------------|
|                   |                             | Date Received: | 4/21/2009 3:45:00PM |
| Work Description: | Site# 03485                 | Date Reported: | 05/07/2009          |

Enclosed are the analytical results for the sample(s) received by the laboratory on April 21, 2009. The results relate only to the samples included in this report. Unless otherwise instructed all samples with the exception of samples which are consumed during the analysis, such as microbiological samples, will be disposed of on or after August 3, 2009. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

If you have any question concerning the report, please feel free to contact me.

Respectfully submitted, Pace Analytical Services, Inc.

ENNI (-ROSS

Jennifer Gross



# **Sample Summary**

| ect: Conoco Phillips Si | te# 03485     |                  | PWA0931 |       |
|-------------------------|---------------|------------------|---------|-------|
| ect Number:             |               | Project Manager: |         |       |
| Sample Identification:  |               |                  |         |       |
| Sample Description      | Lab Sample ID | Collection Dat   | e/Time  | Туре  |
| Influent                | CPWA0931-001  | 04/21/2009       | 12:00   | Water |
| Air Stripper            | CPWA0931-002  | 04/21/2009       | 11:40   | Water |
| Mid 1                   | CPWA0931-003  | 04/21/2009       | 11:30   | Water |
| Effluent                | CPWA0931-004  | 04/21/2009       | 11:20   | Water |
| Trip Blank              | CPWA0931-005  | 04/21/2009       | 11:20   | Water |

Comments:

Discrepancies:

1 of 6 VOA vials for ID: Airstripper and 1 of 3 VOA vials for ID: Trip Blank were out of EPA compliance for headspace. The client was notified of this discrepancy via email of the sample receipt.

# Narrative Comments:

NWTPH-G (NWTPH Gas) Analysis of sample CPWA0931-001 yielded a concentration for gasoline range organics that exceeded the calibration range. Normally, the sample would be reanalyzed at a dilution, but because there was no more sample, a dilution could not be performed. Results were flagged accordingly. The sample also yielded out of control recoveries for the surrogates due to matrix interference.

Analysis of the CCV (CCV\_C\_GAS) yielded a high recovery for gasoline range organics. Sample CPWA0931-002 was a dilution that was reanalyzed out of hold. Because the results matched the original analysis, the diluted analysis was reported. Sample CPWA0931-004 was reanalyzed out of hold because of carryover in the original analysis. Carryover was confirmed. Because the CCV bias was high and no gasoline range organics were detected in sample CPWA0931-004, no further action was taken. Results were reported from the reanalysis. CPWA0931-003 was reanalyzed out of hold because of carryover in the original analysis. Carryover in the original analysis. Carryover was confirmed. Reanalysis. CPWA0931-003 was reanalyzed out of hold because of carryover in the original analysis. Carryover was confirmed. Reanalysis results were reported.



# **Test Request Summary**

|                   |                 |              |                  |        |          |         |      |         |   | 1 4. | . (200)707-5 |
|-------------------|-----------------|--------------|------------------|--------|----------|---------|------|---------|---|------|--------------|
| Project:          | Conoco Phillips | s Site# 0348 | 35               |        | SDG      | Number: |      | CPWA093 | 1 |      |              |
| Pace Project No.: |                 |              | Project Manager: |        |          |         |      |         |   |      |              |
| Samples           | 6               |              |                  |        |          | Met     | hods |         |   |      |              |
|                   |                 | 8260B 1      | NWTPH-           | NWTPH- | Subcon 4 |         |      |         |   |      |              |
| Client Sample ID  |                 |              | 2                | 3      |          |         |      |         |   |      |              |
| Influent          |                 | X            | X                | X      | X        |         |      |         |   |      |              |
| Air Stripper      |                 | X            | X                | X      | X        |         |      |         |   |      |              |
| Mid 1             |                 | X            | X                | X      | X        |         |      |         |   |      |              |
| Effluent          |                 | X            | X                | X      | X        |         |      |         |   |      |              |
| Trip Blank        |                 | X            |                  | X      | X        |         |      |         |   |      |              |

Determinations:

- 1 = 8260-1 VOAs BTEX+MTBE, in water
- 2 = NWTPH DX + Silica Gel (Water)
- 3 = NWTPH Gx (Water)
- 4 = Subcon Ethanol Green Bay



# **Analytical Results**

| Project:<br>Project Number: | Conoco Phillips Site# 03485 | SDG Number:<br>Project Manager: | CPWA0931     |  |
|-----------------------------|-----------------------------|---------------------------------|--------------|--|
| Client Sample ID:           | T fl t                      | Matrix                          | Watan        |  |
| Chem Sample ID.             | Influent                    | Matrix:                         | Water        |  |
| Collected On:               | 4/21/09 12:00               | Lab Sample ID:                  | CPWA0931-001 |  |

| Analyte                        | Result | Units | DF  | Detection Limit<br>Threshold | Reporting<br>Limit | QC Batch<br>Group | Prepared     | Analyzed   | Qualifiers |
|--------------------------------|--------|-------|-----|------------------------------|--------------------|-------------------|--------------|------------|------------|
| Purgeable Organic Compounds by | GC/MS  |       |     | Methods (                    | Preparation        | Analysis):        | 5030B   8260 | B          |            |
| Benzene                        | 15     | mg/L  | 200 |                              | 0.20               | Q40234            | 05/01/2009   | 05/01/2009 |            |
| Ethylbenzene                   | 1.6    | mg/L  | 200 |                              | 0.20               | Q40234            | 05/01/2009   | 05/01/2009 |            |
| Methyl tert-butyl ether        | ND     | mg/L  | 1   |                              | 0.0010             | Q40151            | 04/23/2009   | 04/23/2009 |            |
| Toluene                        | 27     | mg/L  | 200 |                              | 0.20               | Q40234            | 05/01/2009   | 05/01/2009 |            |
| Xylenes, Total                 | 12     | mg/L  | 200 |                              | 0.20               | Q40234            | 05/01/2009   | 05/01/2009 |            |
| Surrogates:                    |        |       |     |                              |                    |                   |              |            |            |
| 4-Bromofluorobenzene           | 110    | % Rec | 1   |                              | 72-128             | Q40151            | 04/23/2009   | 04/23/2009 |            |
| 4-Bromofluorobenzene           | 104    | % Rec | 200 |                              | 72-128             | Q40234            | 05/01/2009   | 05/01/2009 |            |
| Dibromofluoromethane           | 95     | % Rec | 1   |                              | 76-127             | Q40151            | 04/23/2009   | 04/23/2009 |            |
| Dibromofluoromethane           | 106    | % Rec | 200 |                              | 76-127             | Q40234            | 05/01/2009   | 05/01/2009 |            |
| 1,2-Dichloroethane-d4          | 45     | % Rec | 1   |                              | 66-133             | Q40151            | 04/23/2009   | 04/23/2009 | *          |
| 1,2-Dichloroethane-d4          | 115    | % Rec | 200 |                              | 66-133             | Q40234            | 05/01/2009   | 05/01/2009 |            |
| Toluene-d8                     | 69     | % Rec | 1   |                              | 75-130             | Q40151            | 04/23/2009   | 04/23/2009 | *          |
| Toluene-d8                     | 98     | % Rec | 200 |                              | 75-130             | Q40234            | 05/01/2009   | 05/01/2009 |            |
| NWTPH Diesel                   |        |       |     | Methods (                    | Preparation        | Analysis):        | 3510C   NW   | TPH-D      |            |
| Diesel Range Organics          | 1.1    | mg/L  | 1   |                              | 0.10               | Q40117            | 04/22/2009   | 04/23/2009 |            |
| Oil Range Organics             | ND     | mg/L  | 1   |                              | 0.51               | Q40117            | 04/22/2009   | 04/23/2009 |            |
| Surrogates:                    |        |       |     |                              |                    |                   |              |            |            |
| o-Terphenyl                    | 76     | % Rec | 1   |                              | 50-150             | Q40117            | 04/22/2009   | 04/23/2009 |            |
| NWTPH Gas                      |        |       |     | Methods (                    | Preparation        | Analysis):        | 5030B   NW   | ГРН-G      |            |
| Gasoline Range Organics        | 105    | mg/L  | 1   |                              | 0.0500             | Q40244            | 05/04/2009   | 05/04/2009 |            |
| Surrogates:                    |        |       |     |                              |                    |                   |              |            |            |
| 4-Bromofluorobenzene           | 161    | % Rec | 1   |                              | 61-121             | Q40244            | 05/04/2009   | 05/04/2009 | *          |
| Trifluorotoluene               | 76     | % Rec | 1   |                              | 62-129             | Q40244            | 05/04/2009   | 05/04/2009 |            |
|                                |        |       |     |                              |                    |                   |              |            |            |



# **Analytical Results**

| Project:<br>Project Number: | Conoco Phillips Site# 03485 | SDG Number:<br>Project Manager: | CPWA0931     |  |
|-----------------------------|-----------------------------|---------------------------------|--------------|--|
| Client Sample ID:           | Air Stripper                | Matrix:                         | Water        |  |
| Chefit Sample ID.           | All Sulpper                 | Maula.                          | vv ater      |  |
| Collected On:               | 4/21/09 11:40               | Lab Sample ID:                  | CPWA0931-002 |  |

| Analyte                       | Result   | Units | DF | Detection Limit<br>Threshold | Reporting<br>Limit | QC Batch<br>Group | Prepared     | Analyzed   | Qualifiers |
|-------------------------------|----------|-------|----|------------------------------|--------------------|-------------------|--------------|------------|------------|
| Purgeable Organic Compounds b | ov GC/MS |       |    | Methods                      | Preparation        | Analysis):        | 5030B   8260 | B          | -          |
| Benzene                       | 3.5      | mg/L  | 50 |                              | 0.050              | Q40215            | 04/29/2009   | 04/29/2009 |            |
| Ethylbenzene                  | 0.28     | mg/L  | 50 |                              | 0.050              | 040215            | 04/29/2009   | 04/29/2009 |            |
| Methyl tert-butyl ether       | ND       | mg/L  | 1  |                              | 0.0010             | Q40151            | 04/23/2009   | 04/23/2009 |            |
| Toluene                       | 5.7      | mg/L  | 50 |                              | 0.050              | Q40215            | 04/29/2009   | 04/29/2009 |            |
| Xylenes, Total                | 2.8      | mg/L  | 50 |                              | 0.050              | Q40215            | 04/29/2009   | 04/29/2009 |            |
| Surrogates:                   |          |       |    |                              |                    |                   |              |            |            |
| 4-Bromofluorobenzene          | 107      | % Rec | 1  |                              | 72-128             | Q40151            | 04/23/2009   | 04/23/2009 |            |
| 4-Bromofluorobenzene          | 106      | % Rec | 50 |                              | 72-128             | Q40215            | 04/29/2009   | 04/29/2009 |            |
| Dibromofluoromethane          | 92       | % Rec | 1  |                              | 76-127             | Q40151            | 04/23/2009   | 04/23/2009 |            |
| Dibromofluoromethane          | 104      | % Rec | 50 |                              | 76-127             | Q40215            | 04/29/2009   | 04/29/2009 |            |
| 1,2-Dichloroethane-d4         | 66       | % Rec | 1  |                              | 66-133             | Q40151            | 04/23/2009   | 04/23/2009 |            |
| 1,2-Dichloroethane-d4         | 119      | % Rec | 50 |                              | 66-133             | Q40215            | 04/29/2009   | 04/29/2009 |            |
| Toluene-d8                    | 93       | % Rec | 1  |                              | 75-130             | Q40151            | 04/23/2009   | 04/23/2009 |            |
| Toluene-d8                    | 95       | % Rec | 50 |                              | 75-130             | Q40215            | 04/29/2009   | 04/29/2009 |            |
| NWTPH Diesel                  |          |       |    | Methods (                    | Preparation        | Analysis):        | 3510C   NW   | ГРН-D      |            |
| Diesel Range Organics         | 0.82     | mg/L  | 1  |                              | 0.11               | Q40117            | 04/22/2009   | 04/23/2009 |            |
| Oil Range Organics            | ND       | mg/L  | 1  |                              | 0.53               | Q40117            | 04/22/2009   | 04/23/2009 |            |
| Surrogates:                   |          |       |    |                              |                    |                   |              |            |            |
| o-Terphenyl                   | 75       | % Rec | 1  |                              | 50-150             | Q40117            | 04/22/2009   | 04/23/2009 |            |
| NWTPH Gas                     |          |       |    | Methods (                    | Preparation        | Analysis):        | 5030B   NW   | ГРН-G      |            |
| Gasoline Range Organics       | 19.7     | mg/L  | 50 |                              | 2.50               | Q40249            | 05/05/2009   | 05/05/2009 |            |
| Surrogates:                   |          |       |    |                              |                    |                   |              |            |            |
| 4-Bromofluorobenzene          | 97       | % Rec | 50 |                              | 61-121             | O40249            | 05/05/2009   | 05/05/2009 |            |
| Trifluorotoluene              | 92       | % Rec | 50 |                              | 62-129             | Q40249            | 05/05/2009   | 05/05/2009 |            |
|                               |          |       |    |                              |                    |                   |              |            |            |



# **Analytical Results**

| Project:          | Conoco Phillips Site# 03485   | SDG Number:               | CPWA0931              |  |
|-------------------|-------------------------------|---------------------------|-----------------------|--|
| Project Number:   |                               | Project Manager:          |                       |  |
| Client Comple ID. | 20124                         |                           | XX7 /                 |  |
| Client Sample ID: | Mid 1                         | Matrix:                   | Water                 |  |
| Collected On:     | <b>Mid 1</b><br>4/21/09 11:30 | Matrix:<br>Lab Sample ID: | Water<br>CPWA0931-003 |  |

| Analyte                     | Result     | Units | DF | Detection Limit<br>Threshold | Reporting<br>Limit | QC Batch<br>Group | Prepared     | Analyzed   | Qualifiers |
|-----------------------------|------------|-------|----|------------------------------|--------------------|-------------------|--------------|------------|------------|
| Purgeable Organic Compounds | s by GC/MS |       |    | Methods (                    | (Preparation       | Analysis):        | 5030B   8260 | B          |            |
| Benzene                     | 0.0096     | mg/L  | 1  |                              | 0.0010             | Q40151            | 04/23/2009   | 04/23/2009 |            |
| Ethylbenzene                | ND         | mg/L  | 1  |                              | 0.0010             | Q40151            | 04/23/2009   | 04/23/2009 |            |
| Methyl tert-butyl ether     | ND         | mg/L  | 1  |                              | 0.0010             | Q40151            | 04/23/2009   | 04/23/2009 |            |
| Toluene                     | 0.0019     | mg/L  | 1  |                              | 0.0010             | Q40151            | 04/23/2009   | 04/23/2009 |            |
| Xylenes, Total              | ND         | mg/L  | 1  |                              | 0.0010             | Q40151            | 04/23/2009   | 04/23/2009 |            |
| Surrogates:                 |            |       |    |                              |                    |                   |              |            |            |
| 4-Bromofluorobenzene        | 96         | % Rec | 1  |                              | 72-128             | Q40151            | 04/23/2009   | 04/23/2009 |            |
| Dibromofluoromethane        | 103        | % Rec | 1  |                              | 76-127             | Q40151            | 04/23/2009   | 04/23/2009 |            |
| 1,2-Dichloroethane-d4       | 101        | % Rec | 1  |                              | 66-133             | Q40151            | 04/23/2009   | 04/23/2009 |            |
| Toluene-d8                  | 96         | % Rec | 1  |                              | 75-130             | Q40151            | 04/23/2009   | 04/23/2009 |            |
| NWTPH Diesel                |            |       |    | Methods (                    | (Preparation       | Analysis):        | 3510C   NW   | ГРН-D      |            |
| Diesel Range Organics       | ND         | mg/L  | 1  |                              | 0.10               | Q40117            | 04/22/2009   | 04/23/2009 |            |
| Oil Range Organics          | ND         | mg/L  | 1  |                              | 0.52               | Q40117            | 04/22/2009   | 04/23/2009 |            |
| Surrogates:                 |            |       |    |                              |                    |                   |              |            |            |
| o-Terphenyl                 | 68         | % Rec | 1  |                              | 50-150             | Q40117            | 04/22/2009   | 04/23/2009 |            |
| NWTPH Gas                   |            |       |    | Methods (                    | (Preparation       | Analysis):        | 5030B   NW   | ГРН-G      |            |
| Gasoline Range Organics     | 0.0635     | mg/L  | 1  |                              | 0.0500             | Q40249            | 05/05/2009   | 05/05/2009 |            |
| Surrogates:                 |            | C     |    |                              |                    | -                 |              |            |            |
| 4-Bromofluorobenzene        | 97         | % Rec | 1  |                              | 61-121             | O40249            | 05/05/2009   | 05/05/2009 |            |
| Trifluorotoluene            | 91         | % Rec | 1  |                              | 62-129             | Q40249            | 05/05/2009   | 05/05/2009 |            |
|                             |            |       | -  |                              |                    | <b>C</b>          |              |            |            |



#### **Analytical Results**

| Project:<br>Project Number: | Conoco Phillips Site# 03485 | SDG Number:<br>Project Manager: | CPWA0931     |  |
|-----------------------------|-----------------------------|---------------------------------|--------------|--|
| Client Sample ID:           | Effluent                    | Matrix:                         | Water        |  |
|                             |                             |                                 |              |  |
| Collected On:               | 4/21/09 11:20               | Lab Sample ID:                  | CPWA0931-004 |  |

| Analyte                          | Result | Units | DF | Detection Limit<br>Threshold | Reporting<br>Limit | QC Batch<br>Group | Prepared     | Analyzed   | Qualifiers |
|----------------------------------|--------|-------|----|------------------------------|--------------------|-------------------|--------------|------------|------------|
| Purgeable Organic Compounds by G | GC/MS  |       |    | Methods (                    | Preparation        | Analysis):        | 5030B   8260 | В          |            |
| Benzene                          | ND     | mg/L  | 1  |                              | 0.0010             | Q40151            | 04/23/2009   | 04/23/2009 |            |
| Ethylbenzene                     | ND     | mg/L  | 1  |                              | 0.0010             | Q40151            | 04/23/2009   | 04/23/2009 |            |
| Methyl tert-butyl ether          | ND     | mg/L  | 1  |                              | 0.0010             | Q40151            | 04/23/2009   | 04/23/2009 |            |
| Toluene                          | ND     | mg/L  | 1  |                              | 0.0010             | Q40151            | 04/23/2009   | 04/23/2009 |            |
| Xylenes, Total                   | ND     | mg/L  | 1  |                              | 0.0010             | Q40151            | 04/23/2009   | 04/23/2009 |            |
| Surrogates:                      |        |       |    |                              |                    |                   |              |            |            |
| 4-Bromofluorobenzene             | 97     | % Rec | 1  |                              | 72-128             | Q40151            | 04/23/2009   | 04/23/2009 |            |
| Dibromofluoromethane             | 105    | % Rec | 1  |                              | 76-127             | Q40151            | 04/23/2009   | 04/23/2009 |            |
| 1,2-Dichloroethane-d4            | 102    | % Rec | 1  |                              | 66-133             | Q40151            | 04/23/2009   | 04/23/2009 |            |
| Toluene-d8                       | 98     | % Rec | 1  |                              | 75-130             | Q40151            | 04/23/2009   | 04/23/2009 |            |
| NWTPH Diesel                     |        |       |    | Methods (                    | Preparation        | Analysis):        | 3510C   NW   | ГРН-D      |            |
| Diesel Range Organics            | ND     | mg/L  | 1  |                              | 0.10               | Q40117            | 04/22/2009   | 04/23/2009 |            |
| Oil Range Organics               | ND     | mg/L  | 1  |                              | 0.52               | Q40117            | 04/22/2009   | 04/23/2009 |            |
| Surrogates:                      |        |       |    |                              |                    |                   |              |            |            |
| o-Terphenyl                      | 78     | % Rec | 1  |                              | 50-150             | Q40117            | 04/22/2009   | 04/23/2009 |            |
| NWTPH Gas                        |        |       |    | Methods (                    | Preparation        | Analysis):        | 5030B   NW   | ГРН-G      |            |
| Gasoline Range Organics          | ND     | mg/L  | 1  |                              | 0.0500             | Q40249            | 05/05/2009   | 05/06/2009 | HA         |
| Surrogates:                      |        | 2     |    |                              |                    | -                 |              |            |            |
| 4-Bromofluorobenzene             | 97     | % Rec | 1  |                              | 61-121             | Q40249            | 05/05/2009   | 05/06/2009 | HA         |
| Trifluorotoluene                 | 91     | % Rec | 1  |                              | 62-129             | Q40249            | 05/05/2009   | 05/06/2009 | HA         |
|                                  | · · ·  |       | -  |                              |                    | <b>C</b>          |              |            | -          |



#### **Analytical Results**

| Project:<br>Project Number: | Conoco Phillips Site# 03485 | SDG Number:<br>Project Manager: | CPWA0931     |  |
|-----------------------------|-----------------------------|---------------------------------|--------------|--|
| Client Sample ID:           | Trip Blank                  | Matrix:                         | Water        |  |
|                             |                             |                                 |              |  |
| Collected On:               | 4/21/09 11:20               | Lab Sample ID:                  | CPWA0931-005 |  |

| Analyte                     | Result   | Units | DF | Detection Limit<br>Threshold | Reporting<br>Limit | QC Batch<br>Group | Prepared     | Analyzed   | Qualifiers |
|-----------------------------|----------|-------|----|------------------------------|--------------------|-------------------|--------------|------------|------------|
| Purgeable Organic Compounds | by GC/MS |       |    | Methods (                    | Preparation        | Analysis):        | 5030B   8260 | B          | -          |
| Benzene                     | ND       | mg/L  | 1  |                              | 0.0010             | Q40151            | 04/23/2009   | 04/23/2009 |            |
| Ethylbenzene                | ND       | mg/L  | 1  |                              | 0.0010             | Q40151            | 04/23/2009   | 04/23/2009 |            |
| Methyl tert-butyl ether     | ND       | mg/L  | 1  |                              | 0.0010             | Q40151            | 04/23/2009   | 04/23/2009 |            |
| Toluene                     | ND       | mg/L  | 1  |                              | 0.0010             | Q40151            | 04/23/2009   | 04/23/2009 |            |
| Xylenes, Total              | 0.0028   | mg/L  | 1  |                              | 0.0010             | Q40151            | 04/23/2009   | 04/23/2009 |            |
| Surrogates:                 |          |       |    |                              |                    |                   |              |            |            |
| 4-Bromofluorobenzene        | 95       | % Rec | 1  |                              | 72-128             | Q40151            | 04/23/2009   | 04/23/2009 |            |
| Dibromofluoromethane        | 106      | % Rec | 1  |                              | 76-127             | Q40151            | 04/23/2009   | 04/23/2009 |            |
| 1,2-Dichloroethane-d4       | 103      | % Rec | 1  |                              | 66-133             | Q40151            | 04/23/2009   | 04/23/2009 |            |
| Toluene-d8                  | 96       | % Rec | 1  |                              | 75-130             | Q40151            | 04/23/2009   | 04/23/2009 |            |
| NWTPH Gas                   |          |       |    | Methods (                    | Preparation        | Analysis):        | 5030B   NW   | ГРН-G      |            |
| Gasoline Range Organics     | ND       | mg/L  | 1  |                              | 0.0500             | Q40244            | 05/04/2009   | 05/04/2009 |            |
| Surrogates:                 |          |       |    |                              |                    |                   |              |            |            |
| 4-Bromofluorobenzene        | 98       | % Rec | 1  |                              | 61-121             | Q40244            | 05/04/2009   | 05/04/2009 |            |
| Trifluorotoluene            | 92       | % Rec | 1  |                              | 62-129             | Q40244            | 05/04/2009   | 05/04/2009 |            |



| Project:              | Conoco Phillips Si | te# 03485 |    | SDG Num    | ber: 0         | CPWA0931   |     |           |            |
|-----------------------|--------------------|-----------|----|------------|----------------|------------|-----|-----------|------------|
| Project Number:       |                    |           |    | Project Ma | anager:        |            |     |           |            |
| QC Batch(es):         | Q40117             |           |    | Analysis   | Method: N      | WTPH-D     |     |           |            |
| QC Batch Method:      | 3510C (NWTPH)      |           |    | Analysis I | Description: N | WTPH Diese | el  |           |            |
| Preparation Started:  | 04/22/2009         |           |    |            |                |            |     |           |            |
| Blank: B042209GSV     | WLD                |           |    |            |                |            |     |           |            |
|                       | Blank              |           |    | Detectio   | on Limit       | Control    |     |           |            |
| Analyte               | Result             | Units     | DF | T          | nreshold       | Limit      |     |           | Qualifiers |
| Diesel Range Organics | ND                 | mg/L      | 1  |            |                | 0.05       |     |           |            |
| Oil Range Organics    | ND                 | mg/L      | 1  |            |                | 0.25       |     |           |            |
| Surrogates:           |                    |           |    |            | % Rec          |            |     |           |            |
| o-Terphenyl           |                    |           | 1  |            | 74             | 50-150     |     |           |            |
| LCS: S042209GSVW      | 'LD                |           |    |            |                |            |     |           |            |
| LCS Duplicate: SD04   | 2209GSVWLD         |           |    |            |                |            |     |           |            |
|                       | Blank Spike        |           |    | Spike      |                |            |     |           |            |
| Analyte               | Result             | Units     | DF | Conc.      | % Rec          | Limits     | RPD | RPD Limit | Qualifiers |
| Diesel Range Organics | 3.4                | mg/L      | 1  | 5.03       | 68             | 51-147     |     |           |            |
|                       | 3.7                |           |    | 5.03       | 74             | 51-147     | 8   | 50        |            |
| Surrogates:           |                    |           |    |            |                |            |     |           |            |
| o-Terphenyl           |                    |           | 1  |            | 79             | 50-150     |     |           |            |
|                       |                    |           |    |            | 79             | 50-150     |     |           |            |



| Project:<br>Project Number: | Conoco Phillips Si | ite# 03485 |    | SDG Number:<br>Project Manager: | CPWA0931               |                 |
|-----------------------------|--------------------|------------|----|---------------------------------|------------------------|-----------------|
| QC Batch(es):               | Q40151             |            |    | Analysis Method:                | 8260B                  |                 |
| QC Batch Method:            | 5030B-L            |            |    | Analysis Description:           | Purgeable Organic Comp | oounds by GC/MS |
| Preparation Started:        | 04/23/2009         |            |    |                                 |                        |                 |
| Blank: B042309MVO           | WB1                |            |    |                                 |                        |                 |
|                             | Blank              |            |    | Detection Limit                 | Control                |                 |
| Analyte                     | Result             | Units      | DF | Threshold                       | Limit                  | Qualifiers      |
| Benzene                     | ND                 | mg/L       | 1  |                                 | 0.0005                 |                 |
| Ethylbenzene                | ND                 | mg/L       | 1  |                                 | 0.0005                 |                 |
| Methyl tert-butyl ether     | ND                 | mg/L       | 1  |                                 | 0.0005                 |                 |
| Toluene                     | ND                 | mg/L       | 1  |                                 | 0.0005                 |                 |
| Xylenes, Total              | ND                 | mg/L       | 1  |                                 | 0.0005                 |                 |
| Surrogates:                 |                    |            |    | %                               | Rec                    |                 |
| 4-Bromofluorobenzene        |                    |            | 1  |                                 | 98 72-128              |                 |
| Dibromofluoromethane        |                    |            | 1  |                                 | 105 76-127             |                 |
| 1,2-Dichloroethane-d4       |                    |            | 1  |                                 | 104 66-133             |                 |
| Toluene-d8                  |                    |            | 1  |                                 | 98 75-130              |                 |

|                         | Blank Spike |       |    | Spike  |       |        |     |           |            |
|-------------------------|-------------|-------|----|--------|-------|--------|-----|-----------|------------|
| Analyte                 | Result      | Units | DF | Conc.  | % Rec | Limits | RPD | RPD Limit | Qualifiers |
| Benzene                 | 0.0095      | mg/L  | 1  | 0.0100 | 95    | 80-120 |     |           |            |
|                         | 0.0090      |       |    | 0.0100 | 90    | 80-120 | 5   | 30        |            |
| Ethylbenzene            | 0.0091      | mg/L  | 1  | 0.0100 | 91    | 75-125 |     |           |            |
|                         | 0.0088      |       |    | 0.0100 | 88    | 75-125 | 3   | 30        |            |
| Methyl tert-butyl ether | 0.0094      | mg/L  | 1  | 0.0100 | 94    | 65-125 |     |           |            |
|                         | 0.0090      |       |    | 0.0100 | 90    | 65-125 | 5   | 30        |            |
| Toluene                 | 0.0092      | mg/L  | 1  | 0.0100 | 92    | 75-120 |     |           |            |
|                         | 0.0088      |       |    | 0.0100 | 88    | 75-120 | 4   | 30        |            |
| Xylenes, Total          | 0.027       | mg/L  | 1  | 0.0300 | 90    | 75-130 |     |           |            |
|                         | 0.026       |       |    | 0.0300 | 87    | 75-130 | 4   | 30        |            |
| Surrogates:             |             |       |    |        |       |        |     |           |            |
| 4-Bromofluorobenzene    |             |       | 1  |        | 99    | 72-128 |     |           |            |
|                         |             |       |    |        | 100   | 72-128 |     |           |            |
| Dibromofluoromethane    |             |       | 1  |        | 101   | 76-127 |     |           |            |
|                         |             |       |    |        | 100   | 76-127 |     |           |            |
| 1,2-Dichloroethane-d4   |             |       | 1  |        | 97    | 66-133 |     |           |            |
|                         |             |       |    |        | 96    | 66-133 |     |           |            |
| Toluene-d8              |             |       | 1  |        | 99    | 75-130 |     |           |            |
|                         |             |       |    |        | 99    | 75-130 |     |           |            |



#### **Quality Control Results**

| Project:<br>Project Number:                               | Conoco Phillips S                      | ite# 03485 |    | SDG Number:<br>Project Manager:           | CPWA0931                               |                |
|---|--|------------|----|---|--|----------------|
| QC Batch(es):<br>QC Batch Method:<br>Preparation Started: | <b>Q40215</b><br>5030B-L<br>04/29/2009 |            |    | Analysis Method:<br>Analysis Description: | <b>8260B</b><br>Purgeable Organic Comp | ounds by GC/MS |
| Blank: B042909MVO   | WY1                                    |            |    |   |  |                |
|   | Blank                                  |            |    | Detection Limit                           | Control                                |                |
| Analyte   | Result                                 | Units      | DF | Threshold                                 | Limit                                  | Qualifiers     |
| Benzene   | ND                                     | mg/L       | 1  |   | 0.0005                                 |                |
| Ethylbenzene  | ND                                     | mg/L       | 1  |   | 0.0005                                 |                |
| Methyl tert-butyl ether                                   | ND                                     | mg/L       | 1  |   | 0.0005                                 |                |
| Toluene   | ND                                     | mg/L       | 1  |   | 0.0005                                 |                |
| Xylenes, Total  | ND                                     | mg/L       | 1  |   | 0.0005                                 |                |
| Surrogates:   |  |            |    | %   | Rec                                    |                |
| 4-Bromofluorobenzene                                      |  |            | 1  |   | 108 72-128                             |                |
| Dibromofluoromethane                                      |  |            | 1  |   | 107 76-127                             |                |
| 1,2-Dichloroethane-d4                                     |  |            | 1  |   | 119 66-133                             |                |
| Toluene-d8  |  |            | 1  |   | 94 75-130                              |                |

#### LCS Duplicate: S042909MVOWY1D

|                         | Blank Spike |       |    | Spike  |       |        |     |           |            |
|-------------------------|-------------|-------|----|--------|-------|--------|-----|-----------|------------|
| Analyte                 | Result      | Units | DF | Conc.  | % Rec | Limits | RPD | RPD Limit | Qualifiers |
| Benzene                 | 0.0092      | mg/L  | 1  | 0.0100 | 92    | 80-120 |     |           |            |
|                         | 0.0090      |       |    | 0.0100 | 90    | 80-120 | 3   | 30        |            |
| Ethylbenzene            | 0.0088      | mg/L  | 1  | 0.0100 | 88    | 75-125 |     |           |            |
|                         | 0.0085      |       |    | 0.0100 | 85    | 75-125 | 3   | 30        |            |
| Methyl tert-butyl ether | 0.010       | mg/L  | 1  | 0.0100 | 102   | 65-125 |     |           |            |
|                         | 0.0095      |       |    | 0.0100 | 95    | 65-125 | 7   | 30        |            |
| Toluene                 | 0.0081      | mg/L  | 1  | 0.0100 | 81    | 75-120 |     |           |            |
|                         | 0.0082      |       |    | 0.0100 | 82    | 75-120 | 1   | 30        |            |
| Xylenes, Total          | 0.025       | mg/L  | 1  | 0.0300 | 85    | 75-130 |     |           |            |
|                         | 0.025       |       |    | 0.0300 | 84    | 75-130 | 1   | 30        |            |
| Surrogates:             |             |       |    |        |       |        |     |           |            |
| 4-Bromofluorobenzene    |             |       | 1  |        | 106   | 72-128 |     |           |            |
|                         |             |       |    |        | 105   | 72-128 |     |           |            |
| Dibromofluoromethane    |             |       | 1  |        | 110   | 76-127 |     |           |            |
|                         |             |       |    |        | 107   | 76-127 |     |           |            |
| 1,2-Dichloroethane-d4   |             |       | 1  |        | 116   | 66-133 |     |           |            |
|                         |             |       |    |        | 117   | 66-133 |     |           |            |
| Toluene-d8              |             |       | 1  |        | 98    | 75-130 |     |           |            |
|                         |             |       |    |        | 99    | 75-130 |     |           |            |



| Project:<br>Project Number: | Conoco Phillips Si | ite# 03485 |    | SDG Number: CPWA0931<br>Project Manager:                   |
|-----------------------------|--------------------|------------|----|--|
| QC Batch(es):               | Q40234             |            |    | Analysis Method: 8260B                                     |
| QC Batch Method:            | 5030B-L            |            |    | Analysis Description: Purgeable Organic Compounds by GC/MS |
| Preparation Started:        | 05/01/2009         |            |    |  |
| Blank: B050109MVO           | WY1                |            |    |  |
|                             | Blank              |            |    | Detection Limit Control                                    |
| Analyte                     | Result             | Units      | DF | Threshold Limit Qualifier                                  |
| Benzene                     | ND                 | mg/L       | 1  | 0.0005   |
| Ethylbenzene                | ND                 | mg/L       | 1  | 0.0005   |
| Methyl tert-butyl ether     | ND                 | mg/L       | 1  | 0.0005   |
| Toluene                     | ND                 | mg/L       | 1  | 0.0005   |
| Xylenes, Total              | ND                 | mg/L       | 1  | 0.0005   |
| Surrogates:                 |                    |            |    | % Rec  |
| 4-Bromofluorobenzene        |                    |            | 1  | 107 72-128   |
| Dibromofluoromethane        |                    |            | 1  | 105 76-127   |
| 1,2-Dichloroethane-d4       |                    |            | 1  | 114 66-133   |
| Toluene-d8                  |                    |            | 1  | 97 75-130  |

|                         | Blank Spike |       |    | Spike  |       |        |     |           |            |
|-------------------------|-------------|-------|----|--------|-------|--------|-----|-----------|------------|
| Analyte                 | Result      | Units | DF | Conc.  | % Rec | Limits | RPD | RPD Limit | Qualifiers |
| Benzene                 | 0.0099      | mg/L  | 1  | 0.0100 | 99    | 80-120 |     |           |            |
|                         | 0.011       |       |    | 0.0100 | 106   | 80-120 | 7   | 30        |            |
| Ethylbenzene            | 0.0092      | mg/L  | 1  | 0.0100 | 92    | 75-125 |     |           |            |
|                         | 0.0094      |       |    | 0.0100 | 94    | 75-125 | 3   | 30        |            |
| Methyl tert-butyl ether | 0.0094      | mg/L  | 1  | 0.0100 | 94    | 65-125 |     |           |            |
|                         | 0.010       |       |    | 0.0100 | 101   | 65-125 | 7   | 30        |            |
| Toluene                 | 0.0088      | mg/L  | 1  | 0.0100 | 88    | 75-120 |     |           |            |
|                         | 0.0090      |       |    | 0.0100 | 90    | 75-120 | 2   | 30        |            |
| Xylenes, Total          | 0.028       | mg/L  | 1  | 0.0300 | 94    | 75-130 |     |           |            |
|                         | 0.029       |       |    | 0.0300 | 96    | 75-130 | 3   | 30        |            |
| Surrogates:             |             |       |    |        |       |        |     |           |            |
| 4-Bromofluorobenzene    |             |       | 1  |        | 104   | 72-128 |     |           |            |
|                         |             |       |    |        | 102   | 72-128 |     |           |            |
| Dibromofluoromethane    |             |       | 1  |        | 107   | 76-127 |     |           |            |
|                         |             |       |    |        | 109   | 76-127 |     |           |            |
| 1,2-Dichloroethane-d4   |             |       | 1  |        | 117   | 66-133 |     |           |            |
|                         |             |       |    |        | 121   | 66-133 |     |           |            |
| Toluene-d8              |             |       | 1  |        | 99    | 75-130 |     |           |            |
|                         |             |       |    |        | 96    | 75-130 |     |           |            |



| Project:                               | Conoco Phillips Si | ite# 03485 |    | SDG Number:           | Cl    | PWA0931  |            |
|--|--------------------|------------|----|-----------------------|-------|----------|------------|
| Project Number:                        |                    |            |    | Project Manager:      |       |          |            |
| QC Batch(es):                          | Q40244             |            |    | Analysis Method:      | NV    | WTPH-G   |            |
| QC Batch Method:                       | 5030B-GCVOA        |            |    | Analysis Description: | NW    | /TPH Gas |            |
| Preparation Started:                   | 05/04/2009         |            |    |                       |       |          |            |
| Blank: B050409GVOV                     | WS1                |            |    |                       |       |          |            |
|  | Blank              |            |    | Detection Limit       |       | Control  |            |
| Analyte                                | Result             | Units      | DF | Threshold             |       | Limit    | Qualifiers |
| Gasoline Range Organics                | ND                 | mg/L       | 1  |                       |       | 0.025    |            |
| Surrogates:                            |                    |            |    |                       | % Rec |          |            |
| 4-Bromofluorobenzene                   |                    |            | 1  |                       | 96    | 61-121   |            |
| Trifluorotoluene                       |                    |            | 1  |                       | 94    | 62-129   |            |
| LCS: S050409GVOW                       | S1                 |            |    |                       |       |          |            |
|  | Blank Spike        |            |    | Spike                 |       | % Rec    |            |
| Analyte                                | Result             | Units      | DF | Conc.                 | % Rec | Limits   | Qualifiers |
| Gasoline Range Organics<br>Surrogates: | 0.325              | mg/L       | 1  | 0.250                 | 130   | 50-163   |            |
| 4-Bromofluorobenzene                   |                    |            | 1  |                       | 103   | 61-121   |            |
| Trifluorotoluene                       |                    |            | 1  |                       | 100   | 62-129   |            |



4-Bromofluorobenzene

Trifluorotoluene

### Pace Analytical Services, Inc.

#### **Quality Control Results**

| Project:                               | Conoco Phillips Si | ite# 03485 |    | SDG N  | Number:        | CI       | PWA0931 |      |           |            |
|--|--------------------|------------|----|--------|----------------|----------|---------|------|-----------|------------|
| Project Number:                        |                    |            |    | Projec | t Manager:     |          |         |      |           |            |
| QC Batch(es):                          | Q40249             |            |    | Analy  | sis Metho      | l: NV    | VTPH-G  | r    |           |            |
| QC Batch Method:                       | 5030B-GCVOA        |            |    | Analys | sis Descriptio | n: NW    | TPH Gas |      |           |            |
| Preparation Started:                   | 05/05/2009         |            |    |        |                |          |         |      |           |            |
| Blank: B050509GVOW                     | /\$1               |            |    |        |                |          |         |      |           |            |
|  | Blank              |            |    | Det    | ection Limit   |          | Control |      |           |            |
| Analyte                                | Result             | Units      | DF |        | Threshold      |          | Limit   |      |           | Qualifiers |
| Gasoline Range Organics                | ND                 | mg/L       | 1  |        |                |          | 0.025   |      |           |            |
| Surrogates:                            |                    |            |    |        |                | % Rec    |         |      |           |            |
| 4-Bromofluorobenzene                   |                    |            | 1  |        |                | 95       | 61-121  |      |           |            |
| Trifluorotoluene                       |                    |            | 1  |        |                | 90       | 62-129  |      |           |            |
| LCS: \$050509GVOWS                     | 1                  |            |    |        |                |          |         |      |           |            |
|  | Blank Spike        |            |    | Spike  |                |          | % Rec   |      |           |            |
| Analyte                                | Result             | Units      | DF | Conc.  |                | % Rec    | Limits  |      |           | Qualifiers |
| Gasoline Range Organics<br>Surrogates: | 0.309              | mg/L       | 1  | 0.250  |                | 123      | 50-163  |      |           |            |
| 4-Bromofluorobenzene                   |                    |            | 1  |        |                | 87       | 61-121  |      |           |            |
| Trifluorotoluene                       |                    |            | 1  |        |                | 86       | 62-129  |      |           |            |
| Matrix Spike: CPWA0                    | 931-004MS          |            |    | Parent | Sample: CP     | WA0931-0 | 004     |      |           |            |
|  | Matrix Spike       |            |    | Spike  | Parent         |          | % Rec   |      |           |            |
| Analyte                                | Result             | Units      | DF | Conc.  | Result         | % Rec    | Limits  |      |           | Qualifiers |
| Surrogates:                            |                    |            |    |        |                |          |         |      |           |            |
| 4-Bromofluorobenzene                   |                    |            | 1  |        |                | 76       | 61-121  |      |           | HA         |
| Trifluorotoluene                       |                    |            | 1  |        |                | 73       | 62-129  |      |           | HA         |
| Sample Duplicate: CPV                  | WA0931-003D        |            |    | Parent | Sample: CP     | WA0931-0 | 003     |      |           |            |
|  | Duplicate          |            |    |        | Parent         |          |         |      |           |            |
| Analyte                                | Result             | Units      | DF |        | Result         |          |         | RPD  | RPD Limit | Qualifiers |
| Gasoline Range Organic                 | 0.0550             | mg/L       | 1  |        | 0.0635         |          |         | 14.3 | 30        | HA         |
| Surrogates:                            |                    |            |    |        |                | % Rec    |         |      |           |            |

89

77

61-121

62-129

1

1

HA

HA



#### **Notes and Definitions**

#### SDG No: **<u>CPWA0931</u>**

#### **Report Specific Notes:**

| ND | The analyte of interest was not detected, to the limit of detection indicated |
|----|---|
| *  | Recovery result outside established control limits                            |
| НА | Method analytical hold time exceeded  |

# Laboratory Reporting Conventions:

| DF                        | Dilution factor  |
|---------------------------|--|
| Detection Limit Threshold | The project or method defined limit that defines the lower bound for estimated results. This may be the MDL or IDL or a project-specified value.   |
| MDL                       | The project or method defined limit that defines the lower bound for estimated results. This may be the MDL or IDL or a project-specified value. Detection Limit Thresholds are listed on the report only if the data has been evaluated below the Reporting Limit. Results between the Reporting Limit and the Detection Limit Threshold are reported as estimated results. |
| IDL                       | Instrument Detection Limit. IDLs are in instrument basis units. Reported results for samples are normalized appropriately using the preparation and analysis steps performed.  |
| Reporting Limit           | The minimum detection limit for reporting unqualified results under routine laboratory operating conditions.<br>Typically this is the PQL but it may be a different concentration on a project-specific basis.   |
| QC Batch Group            | Quality Control Batch Group. The entity that links analytical results and supporting quality control results.  |
| % Rec                     | Percent recovery.  |
| Limits                    | The upper and lower control limits for spike recoveries.   |
| RPD                       | Relative Percent Difference. The relative difference between duplicate results (matrix spike, blank spike, or sample duplicate) expressed as a percentage.   |
| RPD Limit                 | The maximum RPD allowed for a set of duplicate measurements (see RPD).   |
| Spike conc.               | The measured concentration, in sample basis units, of a spiked sample.   |
| PQL                       | Practical Quantitation Limit. The quantitation limit achievable by the laboratory under routine operating conditions. The PQL will be normalized for deviations from these conditions such as dilutions, dry weight adjustment, etc.   |
| LCS                       | Laboratory Control Sample  |

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|                          | / C2                   | ACE ANALYTIC           | CAL SERV        | PACE ANALYTICAL SERVICES, INC SAMPLE CON  | CONFIRMATION LOG                 | õ                   |                                 |
|--------------------------|------------------------|------------------------|-----------------|---|----------------------------------|---------------------|---------------------------------|
| Mtx Sample ID<br>(SDG-#) | VTSR                   | Collected On           | Client ID       | 8260-1 VOAs BTEX+MTBE,<br>in water  | NWTPH DX + Silica<br>Gel (Water) | NWTPH Gx<br>(Water) | Subcon - Ethanol -<br>Green Bay |
| WD CPWA0931-001          | 04/21/2009<br>03:45 PM | 04/21/2009<br>12:00 PM | Influent        | N   | p.                               | IN                  | IN                              |
| WD CPWA0931-002          | 04/21/2009<br>03:45 PM | 04/21/2009<br>11:40 AM | Air<br>Stripper | IN  | p_                               | IN                  | NI                              |
| WD CPWA0931-003          | 04/21/2009<br>03:45 PM | 04/21/2009<br>11:30 AM | Mid 1           | NI  | p-                               | IN                  | NI                              |
| WD CPWA0931-004          | 04/21/2009<br>03:45 PM | 04/21/2009<br>11:20 AM | Effluent        | N   | - d                              | NI                  | NI                              |
| WD CPWA0931-005          | 04/21/2009<br>03:45 PM | 04/21/2009<br>11:20 AM | Trip Blank      | IN  |                                  | NI                  | IN                              |
| Se .                     | (CASS)                 |                        |                 | 0   | 0n: 4/22/09                      |                     |                                 |
| FOR NEADSOACE            | CING TOR ID            | ALASTRIPPER            | Jul-            | 6 VOA VINUS FOR ID AIRSTRIPPER 3 1 OF 3 VOA VIALS FOR TRIP<br>AEARSPACE.  |                                  |                     | BUANK WERE AUT OF EPA COUPUANCE |
|                          |                        | Sar                    | nples identif   | Samples identified with a '*' client has requested QC for   | ed QC for                        |                     |                                 |
|                          | LEGEND                 | -:Started , +:Com      | pleted , IN:L   | LEGEND: -: Started , +: Completed , IN: Logged In , P: Preparation , A: Analysis , X: Cancelled, PL: Pre-logged<br>Matrices: Water=WD | nalysis , X:Cancelled, PL:       | Pre-logged          |                                 |
|                          |                        |                        |                 |   |                                  |                     |                                 |

4/22/2009

| L. RAWLINS 9/21/09 |  | etitiste dans de la constant de la c |  |  |  |   | unit unit unit unit unit unit unit unit           | use Field Point Sample ID sam<br>owry Name Sample ID DATE                                       | SPECIAL INSTRUCTIONS OR NOTES:  Field Point name only required if different from | TURNARUUND TIME (CALENDAR DAYS) | SAMPA, DAVA SAMPA, SAMPANA AND SAMPANA SAMPANA SAMPANA SAMPANA SAMPANA SAMPANA SAMPANA SAMPANA SAMPANA SAMPANA<br>SAMPANA SAMPANA | (503)691-2030   | Rick Feiterly rick.fetterly@stantec.com         | 12034 134th CT Redmond, WA 98052 | ADORESS:                        | Stantec Consulting Corporation |   | 940 S. Harney Street, Seattle, WA 98108       | PACE Analytical Laboratory  | い。Allin<br>学会年 いま こうらう<br>でのそこ まだり         |
|--------------------|--|---|--|--|--|---|---|---|--|---------------------------------|---|---|---|----------------------------------|---------------------------------|--------------------------------|---|---|-----------------------------|--|
| o 9 Tomy Some      |  |   |  | 4/21/2009 173- Water 7                               | 4/21/2009 1250 Water 7                               | 4/21/2009 1 40 Water 7                            | 4/21/2009 12CO Water 7                            | SAMPLING         MATRIX         NO. OF           DATE         TIME         MATRIX         CONT. | 24 HOURS     LESS THAN 24 HOURS     CHECK BOX IF EDD IS NEEDED                   | 212301341                       | CONSULTANT PROJECT RUMBER   | E-MAIL:<br><u> <u> <u> </u> /u></u> |   |                                  |                                 | valid value iD:                | รายสามสามารถสามารถสามารถสามารถสามารถสามารถสามารถสามารถสามารถสามารถสามารถสามารถสามารถสามารถสามารถสามาร<br>สามารถสามารถสามารถสามารถสามารถสามารถสามารถสามารถสามารถสามารถสามารถสามารถสามารถสามารถสามารถสามารถสามารถสามารถสามา<br>สามารถสามารถสามารถสามารถสามารถสามารถสามารถสามารถสามารถสามารถสามารถสามารถสามารถสามารถสามารถสามารถสามารถสามารถสามา |   | INVOICE REMITTANCE ADDRESS: | Chain Of Custody Record                    |
| ML 04/21109 15.45  |  |   |  |  |  | × × × × × ×                                       | x x x x x   | NWTI<br>NWTI<br>BTEX<br>Ethar   | H-Dx with silica gel cleanup<br>oi   |                                 | Re  |   | EDF DELIVERABLE TO (RP or Designee). PHONE NO.: | 2423 Lind Ave. SW, Renton, WA    | SITE ADDRESS (Street and City): | 212302155                      |   | Attn: Chris Gdak<br>12034 134th C1; Suite 102 | ESS: Stantec                | Record                                     |
| Date.              |  |   |  | (6) HCL preserved voa's and (1) 1 Liter HCL<br>amber | (6) HCL preserved voa's and (1) 1 Liter HCL<br>amber | (6) HCL preserved voa's and (1) 1 Liter HCL amber | (6) HCL preserved voa's and (1) 1 Liter HCL amber | TEMPERATURE ON RECEIPT C°   | FIELD NOTES:<br>Containar/Preservative<br>or PID Readings<br>or Laboratory Notes |                                 | REQUESTED ANALYSES  |   | E-MAL: LAB USE ONLY                             | Ulim Trotter                     | Cenecal hilips Manager          | GLOBAL AD NO:                  |   | ConocoPhillips AOC# PAGE: 1 of 1              |                             | and an |

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### Cooler Receipt Form Pace Analytical Services, Inc.

| SDG:            | CPWA0931   |                       | Taken By:         | Client      |        |        |
|-----------------|--|-----------------------|-------------------|-------------|--------|--------|
| Cooler:         | AAD995   | r                     | Transferred:      | Pace        |        |        |
| COC #:          |  |                       |                   |             |        |        |
| Project:        | WA Conoco Phillips (Stante   | c - Conoco Phillir    | os)               |             |        |        |
| Date sample     | es were received at the laboratory:  | 4/21/2009             |                   |             |        |        |
| Date cooler     | was opened:  | 4/21/2009             | 1:45PM            |             |        |        |
| A. <u>PREL</u>  | IMINARY EXAMINATION  | PHASE:                |                   |             |        |        |
|                 | er come with a shipping slip (airbill<br>, record carrier name and airbill nur |                       |                   |             |        | NO     |
| 2. Were cu      | stody seals unbroken and intact at t   | he date and time of a | rrival?           |             |        | INTACT |
| Date On         | Custody Seal: 4/20/2009  | Custody Seals         | Description: or   | ie in front |        |        |
| 3. Were cu      | stody papers sealed in a plastic bag   | and taped inside to t | he lid?           |             |        | YES    |
| 4. Did you      | screen samples for radioactivity us  | ing the Geiger Count  | er?               |             |        | NO     |
| 5. Were cu      | stody papers filled out properly (inl  | x, signed, etc.)?     |                   |             |        | YES    |
| 6. Did you      | sign custody papers in the appropri  | ate place?            |                   |             |        | YES    |
| 7. If require   | ed, was enough cooling material pro  | esent?                |                   |             |        | YES    |
| 8. Have des     | signated person initial here to ackno  | owledge receipt of co | oler: <u>1.1N</u> |             |        |        |
| В. <u>LOG-I</u> | IN PHASE:  | Date samples were     | e logged-in:      | 4/21/2009   | 5:37PM |        |
| Logged-in l     | oy <u>Taryn Namba</u>  | (sign) Thur have      | 'm'               |             |        |        |
| 9. Describe     | e type of packing in cooler:   | ۰ کر <sup>۱</sup>     |                   |             |        |        |
| ice in l        | bags, bubble wrap, VOA foam ho   | lders                 |                   |             |        |        |
| 10. Were a      | ll bottles sealed in separate plastic l  | pags?                 |                   |             |        | NO     |
| 11. Were la     | abels in good condition?   |                       |                   |             |        | YES    |
| 12. Were a      | ll bottle labels complete (ID,date,ti  | me signature,preserva | ative,etc.)?      |             |        | YES    |
| 13. Did all     | bottle labels agree with custody paper   | pers?                 |                   |             |        | YES    |
| 14. Were c      | orrect containers used for the tests i   | indicated?            |                   |             |        | YES    |
| 15. Were the    | he correct pHs observed?   |                       |                   |             |        | YES    |
| 16. Was a s     | sufficient amount of sample sent for   | r tests indicated?    |                   |             |        | YES    |
| 17. Were V      | OA samples compliant with heads  | pace, septum and cap  | o?                |             |        | NO     |
| 18. Temper      | ratures: <b>3.0</b> , <b>2.8</b> , <b>2.6</b>                                  |                       |                   |             |        |        |
| DISCREPA        | NCIES:   |                       |                   |             |        |        |

1 OF 6 VOA VIALS FOR -602 WAS NOT OF EPA COMPLANCE FOR HEADSPACE. "4/2/07 1 OF 3 VOA VIALS FOR -005 WAS OUT OF EPA COMPLIANCE FOR HEADSPACE. 1 OF 3 VOA VIALS FOR -005 WAS OUT OF EPA COMPLIANCE Printed: 4/21/2009 17:39

# Supplemental Sample Receipt Log Pace Analytical Services, Inc.

SDG: CPWA0931

Cooler: AAD995

Temperatures: 3.0, 2.8, 2.6

COC #:

| Sample   | Bottle # | Bottle Description                     | pH  | VOA* |
|--|----------|--|-----|------|
| CPWA0931-001   | 0001     | 1000 mL boston round, amber glass, HCl | <2  | N/A  |
| **************************************   | 0002     | 40 ml OTWS, clear glass, HCl           | N/C | Yes  |
| 9999-1999-1999-1999-1999-1999-1999-199   | 0003     | 40 ml OTWS, clear glass, HCl           | N/C | Yes  |
| gen ge print eine eine eine eine eine eine eine e  | 0004     | 40 ml OTWS, clear glass, HCl           | N/C | Yes  |
| 99911119911111119999999999999999999999   | 0005     | 40 ml OTWS, clear glass, HCl           | N/C | Yes  |
|  | 0006     | 40 ml OTWS, clear glass, HCl           | N/C | Yes  |
|  | 0007     | 40 ml OTWS, clear glass, HCl           | N/C | Yes  |
| CPWA0931-002   | 0001     | 1000 mL boston round, amber glass, HCl | <2  | N/A  |
| <u>Harden II Hannan Barnan Aleman Andre Aleman Aleman Barnan Barnan Barnan Barnan Barnan Barnan Barnan Barnan Ba</u> | 0002     | 40 ml OTWS, clear glass, HCl           | N/C | No   |
|  | 0003     | 40 ml OTWS, clear glass, HCl           | N/C | Yes  |
|  | 0004     | 40 ml OTWS, clear glass, HCl           | N/C | Yes  |
|  | 0005     | 40 ml OTWS, clear glass, HCl           | N/C | Yes  |
|  | 0006     | 40 ml OTWS, clear glass, HCl           | N/C | Yes  |
| ann an Ann an Ann ann an Ann ann an Ann ann a  | 0007     | 40 ml OTWS, clear glass, HCl           | N/C | Yes  |
| CPWA0931-003   | 0001     | 1000 mL boston round, amber glass, HCl | <2  | N/A  |
|  | 0002     | 40 ml OTWS, clear glass, HCl           | N/C | Yes  |
|  | 0003     | 40 ml OTWS, clear glass, HCl           | N/C | Yes  |
| n an   | 0004     | 40 ml OTWS, clear glass, HCl           | N/C | Yes  |
|  | 0005     | 40 ml OTWS, clear glass, HCl           | N/C | Yes  |
|  | 0006     | 40 ml OTWS, clear glass, HCl           | N/C | Yes  |
|  | 0007     | 40 ml OTWS, clear glass, HCl           | N/C | Yes  |
| CPWA0931-004   | 0001     | 1000 mL boston round, amber glass, HCl | <2  | Ň/A  |
| 4/2/11/2/91-11/2/14/2/14/2/14/2/14/2/14/2/14/2/14/   | 0002     | 40 ml OTWS, clear glass, HCl           | N/C | Yes  |
| alaanan damaan maanaa maanaa maga ahaa damaa       | 0003     | 40 ml OTWS, clear glass, HCl           | N/C | Yes  |
| a na ann an faith an tar tar tar tar ann ann ann ann ann ann ann an tar ann ann ann ann ann ann ann ann ann a        | 0004     | 40 ml OTWS, clear glass, HCl           | N/C | Yes  |
|  | 0005     | 40 ml OTWS, clear glass, HCl           | N/C | Yes  |
| HANNELEN KARENNE FRANKLING IN AN MELLEN AM DE LEN AM DE LEN AM TOM TOM TYPE FRANKLING I AM DE LEN AM DE LEN AM       | 0006     | 40 ml OTWS, clear glass, HCl           | N/C | Yes  |
| an a   | 0007     | 40 ml OTWS, clear glass, HCl           | N/C | Yes  |
| CPWA0931-005   | 0001     | 40 ml OTWS, clear glass, HCl           | N/C | Yes  |
| ***************************************  | 0002     | 40 ml OTWS, clear glass, HCl           | N/C | Yes  |
|  | 0003     | 40 ml OTWS, clear glass, HCl           | N/C | No   |

\* VOA vial compliant

Allowable temperature and pH ranges (neutral pH defined as a value between 5 and 9)

Temperature

Allowable temperature range is 4+/- 2 degrees Celsius

| Acid Preserved pH | pH must be less than 2     |
|-------------------|----------------------------|
| Base Preserved pH | pH must be greater than 12 |
| NC                | Not Checked for pH         |

# Supplemental Sample Receipt Log Pace Analytical Services, Inc.

| SDG:                    | CPWA0931      |                    |    |      |
|-------------------------|---------------|--------------------|----|------|
| Cooler:                 | AAD995        |                    |    |      |
| Temperatures:<br>COC #: | 3.0, 2.8, 2.6 |                    |    |      |
| Sample                  | Bottle #      | Bottle Description | pН | VOA* |

\* VOA vial compliant Allowable temperature and pH ranges (neutral pH defined as a value between 5 and 9)

Acid Preserved pH Base Preserved pH NC

pH must be less than 2

Allowable temperature range is 4+/- 2 degrees Celsius

d pH pH must be ress than 2 d pH pH must be greater than 12 Not Checked for pH

Temperature

| San   | iples                                   | soluto  | lition           | i Upon Receipt   |                                       |  |
|---|---|---|------------------|--|---------------------------------------|--|
| Face Analytical Client Name:  | Class                                   |   |                  |  | Project                               | t #  |
|   |   | ( 4, 5<br>1999-1997-1997-1997-1997-1997-1997-1997 |                  | ĸĸŶŶĬĸĨŎſĂĸĸŔĊĸĬĊĬŎĬĬŎĹĬŎĹŎĸĊĸĸĬĸĸĹĊĸĸĸĸŦŦĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸ  | 0]00                                  |  |
| Courier: C Fed Ex UPS USPS Clier  | t Пc                                    | omme  | ercial           | Pace Other   |                                       | [5pfional ]  |
| Tracking #:   |   |   |                  |  | *****                                 | Proj. Due Date:  |
| Custody Seal on Cooler/Box Present:   | 🗌 no                                    | 0   | Seals            | intact: 🗹 yes 🛛  | no                                    | Proj. Name:  |
| Packing Material: Bubble Wrap   | Bags                                    | 🗌 N   | one              | Other VOA foo  | m hoider                              | SUM TRAVETY A FOX  |
| Thermometer Used Honba 132013   | Type of                                 | f Ice:  | Wet              | ) Blue None [  | FAMILIER THE PROPERTY OF              | on ice, cooling process has begun  |
| Cooler Temperature 3,0, 2.0, 2.6  | Biolog                                  | ical T  | issue            | is Frozen: Yes No  |                                       | and Initials of person examining tents: THE 04121109   |
| Temp should be above freezing to 6°C  |   |   |                  | Comments:  |                                       |  |
| Chain of Custody Present:   | ⊠yes [                                  | ⊡No   | □n/a             | 1.   |                                       |  |
| Chain of Custody Filled Out:  | 🗹 Yes 🛛                                 | ΩNo   | □n/a             | 2.   | ()                                    |  |
| Chain of Custody Relinquished:  |   | DNo   | ⊡n/a             | 3.   |                                       |  |
| Sampler Name & Signature on COC:  | Dýes [                                  | ONO   |                  | 4.   |                                       |  |
| Samples Arrived within Hold Time:   | ⊡Kyes [                                 |   |                  | 5.   | ~~~~                                  |  |
| Short Hold Time Analysis (<72hr):   | □ <sub>Yes</sub> [                      | 2'no  | □n/a             | 6.   |                                       | <u></u>  |
| Rush Turn Around Time Requested:  | □ <sub>Yes</sub> [                      |   | □n/a             | 7.   |                                       |  |
| Sufficient Volume:  | ⊡<br>Yes [                              | ΩNo   |                  | 8.   |                                       |  |
| Correct Containers Used:  | @Yes [                                  | □No   | □ <sub>N/A</sub> | 9.   |                                       |  |
| -Pace Containers Used:  | Øyes [                                  | No  | □n/A             |  |                                       |  |
| Containers Intact:  | ⊠Ýes [                                  | ΩNo   | □n/A             | 10.  |                                       |  |
| Filtered volume received for Dissolved tests  | □yes [                                  | ΩNo   |                  | 11.  |                                       | annan marain an an ann an an an an ann ann an ann a' ann an ann an   |
| Sample Labels match COC:  | ⊡¥es [                                  | ΩNo   |                  | 12.  |                                       |  |
| -Includes date/time/ID/Analysis Matrix:_#4  | æ                                       |   |                  |  |                                       |  |
| All containers needing preservation have been checked.  | 🗆 Yes 🛛                                 | □No   | ØN/A             | 13.  |                                       | anan ang ang ang ang ang ang ang ang ang   |
| All containers needing preservation are found to be in<br>compliance with EPA recommendation. | ⊡yes [                                  | □No   | S N/A            |  |                                       |  |
| exceptions: VOA, collform, TOC, O&G, WI-DRO (water)   | Dyes [                                  | □No   |                  | Initial when<br>completed  | Lot # of ad<br>preservati             |  |
| Samples checked for dechlorination:   | OYes [                                  | □ <sub>No</sub>                                   | 🖾 N/A            | 14.  |                                       |  |
| Headspace in VOA Vials ( >6mm):   | ⊠Yes [                                  |   |                  | 15. one of 6 wats f  |                                       |  |
| Trip Blank Present:   | ⊡Yes [                                  | □No   | □n/a             | 16. One of three era   | is has he                             | adepace > komm.  |
| Trip Blank Custody Seals Present  | 🗆 Yes 🛛                                 | ΩNo   | Øn/a             |  |                                       |  |
| Pace Trip Blank Lot # (if purchased):   |   |   |                  |  |                                       |  |
| Client Notification/ Resolution:  |   |   |                  | taak taala ay ay ay aharang katala atala aharan matalan katala ay katalan katalan katalan katalan katalan kata | Field Data                            | Required? Y / N  |
| Person Contacted:   |   |   | Date/            | Time:  |                                       |  |
| Comments/ Resolution:   |   |   |                  |  |                                       |  |
|   |   |   |                  |  |                                       |  |
|   |   |   |                  |  |                                       |  |
|   | 000100112100100000000000000000000000000 | THE ARTICLE OF CONTRACT                           |                  | 2010/1010/00/00/1010/1010/1010/1010/101  |                                       | YFINDY HYNN YN YN MAR HANN HANN HANN YN HYNN YN HANN YN HANN YN HYNN HYN                                       |
|   | 2412410-1010-1010-1010-1010-1010        |   | *****            |  | 5175677471820007774711404778888104604 | 2014-2014/11-2014-00-2014-00-2014-00-2014-00-2014-00-2014-00-2014-00-2014-00-2014-00-2014-00-2014-00-2014-00-2 |
|   | 12000000000000000000000000000000000000  | 17456-1660 III.                                   |                  |  | LT BUILDING WITH TO CUILI CLUMA       | xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx   |
| Project Manager Review:   |   | 1719200000000000000000000000000000000000          | 2020020000000000 |  | <br>Di                                | ate:   |

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

# ATTACHMENT C REMEDIATION SYSTEM LABORATORY AQUEOUS ANALYTICAL REPORTS

ConocoPhillips Company Facility Number 3485 2423 Lind Avenue SW Renton, Washington