# Analytical and Quality Control Report

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Report Date: January 30, 2007

Work Order: 7011214

Project Name: HELSTF Groundwater Samples
Project Number: 7

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|---|---|---|---|---|---|
| 113765 | HLSF-0085-DRW-008-0107 | water | 2007-01-11 | 09:50 | 2007-01-11 |
| 113766 | HLSF-0085-TB-742-0107 | water | 2007-01-11 | 09:50 | 2007-01-11 |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 37 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

**Standard Flags**

**B** - The sample contains less than ten times the concentration found in the method blank.

# Analytical Report

**Sample: 113765 - HLSF-0085-DRW-008-0107**

| | | | | | |
|---|---|---|---|---|---|
| Analysis: | Alkalinity | Analytical Method: | SM 2320B | Prep Method: | N/A |
| QC Batch: | 34056 | Date Analyzed: | 2007-01-24 | Analyzed By: | JG |
| Prep Batch: | 29556 | Sample Preparation: | 2007-01-24 | Prepared By: | JR |

| Parameter | Flag | Result | RL | Units | Dilution | RL |
|---|---|---|---|---|---|---|
| Hydroxide Alkalinity | | <1.00 | | mg/L as CaCo3 | 1 | 1.00 |
| Carbonate Alkalinity | | <1.00 | | mg/L as CaCo3 | 1 | 1.00 |
| Bicarbonate Alkalinity | | **248** | | mg/L as CaCo3 | 1 | 4.00 |
| Total Alkalinity | | **248** | | mg/L as CaCo3 | 1 | 4.00 |

**Sample: 113765 - HLSF-0085-DRW-008-0107**

| | | | | | |
|---|---|---|---|---|---|
| Analysis: | Ammonia | Analytical Method: | SM 4500-NH3 B,C | Prep Method: | N/A |
| QC Batch: | 33857 | Date Analyzed: | 2007-01-22 | Analyzed By: | SM |
| Prep Batch: | 29393 | Sample Preparation: | 2007-01-22 | Prepared By: | SM |

| Parameter | Flag | Result | RL | Units | Dilution | RL |
|---|---|---|---|---|---|---|
| Ammonia-N | | <1.00 | | mg/L | 1 | 1.00 |

**Sample: 113765 - HLSF-0085-DRW-008-0107**

| | | | | | |
|---|---|---|---|---|---|
| Analysis: | Conductivity | Analytical Method: | SM 2510B | Prep Method: | N/A |
| QC Batch: | 33615 | Date Analyzed: | 2007-01-12 | Analyzed By: | DR |
| Prep Batch: | 29209 | Sample Preparation: | 2007-01-12 | Prepared By: | JR |

| Parameter | Flag | Result | RL | Units | Dilution | RL |
|---|---|---|---|---|---|---|
| Specific Conductance | | **12100** | | µMHOS/cm | 1 | 0.00 |

**Sample: 113765 - HLSF-0085-DRW-008-0107**

| | | | | | |
|---|---|---|---|---|---|
| Analysis: | Dissolved Metals | Analytical Method: | S 6010B | Prep Method: | S 3005A |
| QC Batch: | 33986 | Date Analyzed: | 2007-01-25 | Analyzed By: | RR |
| Prep Batch: | 29250 | Sample Preparation: | 2007-01-16 | Prepared By: | TS |

| Parameter | Flag | Result | RL | Units | Dilution | RL |
|---|---|---|---|---|---|---|
| Dissolved Silver | | <0.00200 | | mg/L | 1 | 0.00200 |
| Dissolved Cadmium | | <0.00100 | | mg/L | 1 | 0.00100 |
| Dissolved Chromium | | <0.00500 | | mg/L | 1 | 0.00500 |
| Dissolved Copper | | <0.0125 | | mg/L | 1 | 0.0125 |
| Dissolved Lead | | <0.00500 | | mg/L | 1 | 0.00500 |
| Dissolved Zinc | | <0.00500 | | mg/L | 1 | 0.00500 |

**Sample: 113765 - HLSF-0085-DRW-008-0107**

| | | | | | |
|---|---|---|---|---|---|
| Analysis: | Ion Chromatography | Analytical Method: | E 300.0 | Prep Method: | N/A |
| QC Batch: | 33914 | Date Analyzed: | 2007-01-16 | Analyzed By: | JR |
| Prep Batch: | 29454 | Sample Preparation: | 2007-01-16 | Prepared By: | JR |

| Parameter | Flag | Result | RL | Units | Dilution | RL |
|---|---|---|---|---|---|---|
| Bromide | | <1.00 | | mg/L | 5 | 0.200 |
| Chloride | | **1010** | | mg/L | 100 | 2.00 |
| Fluoride | | **3.78** | | mg/L | 5 | 0.200 |
| Sulfate | | **6140** | | mg/L | 500 | 1.00 |

**Sample: 113765 - HLSF-0085-DRW-008-0107**

| | | | | | |
|---|---|---|---|---|---|
| Analysis: | Nitrate and Nitrite as N | Analytical Method: | E 353.3 | Prep Method: | N/A |
| QC Batch: | 33961 | Date Analyzed: | 2007-01-24 | Analyzed By: | JS |
| Prep Batch: | 29492 | Sample Preparation: | 2007-01-24 | Prepared By: | JS |

| Parameter | Flag | Result | RL | Units | Dilution | RL |
|---|---|---|---|---|---|---|
| Nitrate and Nitrite as N | | **40.4** | | mg/L | 200 | 0.100 |

**Sample: 113765 - HLSF-0085-DRW-008-0107**

| | | | | | |
|---|---|---|---|---|---|
| Analysis: | pH | Analytical Method: | SM 4500-H+ | Prep Method: | N/A |
| QC Batch: | 33698 | Date Analyzed: | 2007-01-12 | Analyzed By: | DR |
| Prep Batch: | 29271 | Sample Preparation: | 2007-01-12 | Prepared By: | JR |

| Parameter | Flag | Result | RL | Units | Dilution | RL |
|---|---|---|---|---|---|---|
| pH | | **6.90** | | s.u. | 1 | 0.00 |

**Sample: 113765 - HLSF-0085-DRW-008-0107**

| | | | | | |
|---|---|---|---|---|---|
| Analysis: | Salts, Dissolved | Analytical Method: | S 6010B | Prep Method: | S 3005A |
| QC Batch: | 33909 | Date Analyzed: | 2007-01-22 | Analyzed By: | TP |
| Prep Batch: | 29250 | Sample Preparation: | 2007-01-16 | Prepared By: | TS |

| Parameter | Flag | Result | RL | Units | Dilution | RL |
|---|---|---|---|---|---|---|
| Dissolved Sodium | | **2380** | | mg/L | 100 | 0.500 |

**Sample: 113765 - HLSF-0085-DRW-008-0107**

| | | | | | |
|---|---|---|---|---|---|
| Analysis: | Salts, Total | Analytical Method: | S 6010B | Prep Method: | S 3010A |
| QC Batch: | 33916 | Date Analyzed: | 2007-01-23 | Analyzed By: | TP |
| Prep Batch: | 29246 | Sample Preparation: | 2007-01-16 | Prepared By: | TS |

| Parameter | Flag | Result | Units | Dilution | RL |
|---|---|---|---|---|---|
| Total Sodium | | **2560** | mg/L | 100 | 0.500 |

**Sample: 113765 - HLSF-0085-DRW-008-0107**

| | | | | | |
|---|---|---|---|---|---|
| Analysis: | Semivolatiles WTS | Analytical Method: | S 8270C | Prep Method: | S 3510C |
| QC Batch: | 33661 | Date Analyzed: | 2007-01-15 | Analyzed By: | DS |
| Prep Batch: | 29243 | Sample Preparation: | 2007-01-15 | Prepared By: | DS |

| Parameter | Flag | Result | Units | Dilution | RL |
|---|---|---|---|---|---|
| Pyridine | | <0.00500 | mg/L | 1 | 0.00500 |
| n-Nitrosodimethylamine | | <0.00500 | mg/L | 1 | 0.00500 |
| 2-Picoline | | <0.00500 | mg/L | 1 | 0.00500 |
| Methyl methanesulfonate | | <0.00500 | mg/L | 1 | 0.00500 |
| Ethyl methanesulfonate | | <0.00500 | mg/L | 1 | 0.00500 |
| Phenol | | <0.00500 | mg/L | 1 | 0.00500 |
| Aniline | | <0.00500 | mg/L | 1 | 0.00500 |
| bis(2-chloroethyl)ether | | <0.00500 | mg/L | 1 | 0.00500 |
| 2-Chlorophenol | | <0.00500 | mg/L | 1 | 0.00500 |
| 1,3-Dichlorobenzene (meta) | | <0.00500 | mg/L | 1 | 0.00500 |
| 1,4-Dichlorobenzene (para) | | <0.00500 | mg/L | 1 | 0.00500 |
| Benzyl alcohol | | <0.00500 | mg/L | 1 | 0.00500 |
| 1,2-Dichlorobenzene (ortho) | | <0.00500 | mg/L | 1 | 0.00500 |
| 2-Methylphenol | | <0.00500 | mg/L | 1 | 0.00500 |
| bis(2-chloroisopropyl)ether | | <0.00500 | mg/L | 1 | 0.00500 |
| 4-Methylphenol / 3-Methylphenol | | <0.00500 | mg/L | 1 | 0.00500 |
| Acetophenone | | <0.00500 | mg/L | 1 | 0.00500 |
| n-Nitrosodi-n-propylamine | | <0.00500 | mg/L | 1 | 0.00500 |
| Hexachloroethane | | <0.00500 | mg/L | 1 | 0.00500 |
| Nitrobenzene | | <0.00500 | mg/L | 1 | 0.00500 |
| n-Nitrosopiperidine | | <0.00500 | mg/L | 1 | 0.00500 |
| Isophorone | | <0.00500 | mg/L | 1 | 0.00500 |
| 2-Nitrophenol | | <0.00500 | mg/L | 1 | 0.00500 |
| 2,4-Dimethylphenol | | <0.00500 | mg/L | 1 | 0.00500 |
| bis(2-chloroethoxy)methane | | <0.00500 | mg/L | 1 | 0.00500 |
| Benzoic acid | | <0.00500 | mg/L | 1 | 0.00500 |
| 2,4-Dichlorophenol | | <0.00500 | mg/L | 1 | 0.00500 |
| 1,2,4-Trichlorobenzene | | <0.00500 | mg/L | 1 | 0.00500 |
| a,a-Dimethylphenethylamine | | <0.00500 | mg/L | 1 | 0.00500 |
| Naphthalene | | <0.00500 | mg/L | 1 | 0.00500 |
| 4-Chloroaniline | | <0.00500 | mg/L | 1 | 0.00500 |
| 2,6-Dichlorophenol | | <0.0100 | mg/L | 1 | 0.0100 |
| Hexachlorobutadiene | | <0.00500 | mg/L | 1 | 0.00500 |
| n-Nitroso-di-n-butylamine | | <0.00500 | mg/L | 1 | 0.00500 |
| 4-Chloro-3-methylphenol | | <0.00500 | mg/L | 1 | 0.00500 |
| 1-Methylnaphthalene | | <0.00500 | mg/L | 1 | 0.00500 |
| 2-Methylnaphthalene | | <0.00500 | mg/L | 1 | 0.00500 |
| 1,2,4,5-Tetrachlorobenzene | | <0.00500 | mg/L | 1 | 0.00500 |
| Hexachlorocyclopentadiene | | <0.00500 | mg/L | 1 | 0.00500 |
| 2,4,6-Trichlorophenol | | <0.0100 | mg/L | 1 | 0.0100 |

*continued . . .*

*sample 113765 continued . . .*

| Parameter | Flag | Result | RL | Units | Dilution | RL |
|---|---|---|---|---|---|---|
| 2,4,5-Trichlorophenol | | <0.00500 | | mg/L | 1 | 0.00500 |
| 2-Chloronaphthalene | | <0.00500 | | mg/L | 1 | 0.00500 |
| 1-Chloronaphthalene | | <0.00500 | | mg/L | 1 | 0.00500 |
| 2-Nitroaniline | | <0.00500 | | mg/L | 1 | 0.00500 |
| Dimethylphthalate | | <0.00500 | | mg/L | 1 | 0.00500 |
| Acenaphthylene | | <0.00500 | | mg/L | 1 | 0.00500 |
| 2,6-Dinitrotoluene | | <0.00500 | | mg/L | 1 | 0.00500 |
| 3-Nitroaniline | | <0.00500 | | mg/L | 1 | 0.00500 |
| Acenaphthene | | <0.00500 | | mg/L | 1 | 0.00500 |
| 2,4-Dinitrophenol | | <0.00500 | | mg/L | 1 | 0.00500 |
| Dibenzofuran | | <0.00500 | | mg/L | 1 | 0.00500 |
| Pentachlorobenzene | | <0.00500 | | mg/L | 1 | 0.00500 |
| 4-Nitrophenol | | <0.0250 | | mg/L | 1 | 0.0250 |
| 1-Naphthylamine | | <0.00500 | | mg/L | 1 | 0.00500 |
| 2,4-Dinitrotoluene | | <0.00500 | | mg/L | 1 | 0.00500 |
| 2-Naphthylamine | | <0.00500 | | mg/L | 1 | 0.00500 |
| 2,3,4,6-Tetrachlorophenol | | <0.0100 | | mg/L | 1 | 0.0100 |
| Fluorene | | <0.00500 | | mg/L | 1 | 0.00500 |
| Diethylphthalate | | <0.00500 | | mg/L | 1 | 0.00500 |
| 4-Chlorophenyl-phenylether | | <0.00500 | | mg/L | 1 | 0.00500 |
| 4-Nitroaniline | | <0.00500 | | mg/L | 1 | 0.00500 |
| 4,6-Dinitro-2-methylphenol | | <0.00500 | | mg/L | 1 | 0.00500 |
| Diphenylamine | | <0.00500 | | mg/L | 1 | 0.00500 |
| Diphenylhydrazine | | <0.00500 | | mg/L | 1 | 0.00500 |
| 4-Bromophenyl-phenylether | | <0.00500 | | mg/L | 1 | 0.00500 |
| Phenacetin | | <0.00500 | | mg/L | 1 | 0.00500 |
| Hexachlorobenzene | | <0.00500 | | mg/L | 1 | 0.00500 |
| 4-Aminobiphenyl | | <0.00500 | | mg/L | 1 | 0.00500 |
| Pentachlorophenol | | <0.0100 | | mg/L | 1 | 0.0100 |
| Pentachloronitrobenzene | | <0.00500 | | mg/L | 1 | 0.00500 |
| Pronamide | | <0.00500 | | mg/L | 1 | 0.00500 |
| Phenanthrene | | <0.00500 | | mg/L | 1 | 0.00500 |
| Anthracene | | <0.00500 | | mg/L | 1 | 0.00500 |
| Di-n-butylphthalate | | <0.00500 | | mg/L | 1 | 0.00500 |
| Fluoranthene | | <0.00500 | | mg/L | 1 | 0.00500 |
| Benzidine | | <0.0250 | | mg/L | 1 | 0.0250 |
| Pyrene | | <0.00500 | | mg/L | 1 | 0.00500 |
| p-Dimethylaminoazobenzene | | <0.00500 | | mg/L | 1 | 0.00500 |
| Butylbenzylphthalate | | <0.00500 | | mg/L | 1 | 0.00500 |
| Benzo(a)anthracene | | <0.00500 | | mg/L | 1 | 0.00500 |
| 3,3-Dichlorobenzidine | | <0.00500 | | mg/L | 1 | 0.00500 |
| Chrysene | | <0.00500 | | mg/L | 1 | 0.00500 |
| bis(2-ethylhexyl)phthalate | | <0.00500 | | mg/L | 1 | 0.00500 |
| Di-n-octylphthalate | | <0.00500 | | mg/L | 1 | 0.00500 |
| Benzo(b)fluoranthene | | <0.00500 | | mg/L | 1 | 0.00500 |
| 7,12-Dimethylbenz(a)anthracene | | <0.00500 | | mg/L | 1 | 0.00500 |
| Benzo(k)fluoranthene | | <0.00500 | | mg/L | 1 | 0.00500 |
| Benzo(a)pyrene | | <0.00500 | | mg/L | 1 | 0.00500 |
| 3-Methylcholanthrene | | <0.00500 | | mg/L | 1 | 0.00500 |

*continued . . .*

*sample 113765 continued . . .*

| Parameter | Flag | Result | RL | Units | Dilution | RL |
|---|---|---|---|---|---|---|
| Dibenzo(a,j)acridine | | <0.00500 | | mg/L | 1 | 0.00500 |
| Indeno(1,2,3-cd)pyrene | | <0.00500 | | mg/L | 1 | 0.00500 |
| Dibenzo(a,h)anthracene | | <0.00500 | | mg/L | 1 | 0.00500 |
| Benzo(g,h,i)perylene | | <0.00500 | | mg/L | 1 | 0.00500 |
| 2-Butoxy Ethanol | | <0.00500 | | mg/L | 1 | 0.00500 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|---|---|---|---|---|---|---|---|
| 2-Fluorophenol | | 0.0204 | mg/L | 1 | 0.0800 | 26 | 10 - 75.1 |
| Phenol-d5 | | 0.0158 | mg/L | 1 | 0.0800 | 20 | 10 - 56.2 |
| Nitrobenzene-d5 | | 0.0469 | mg/L | 1 | 0.0800 | 59 | 18.1 - 108 |
| 2-Fluorobiphenyl | | 0.0446 | mg/L | 1 | 0.0800 | 56 | 20 - 112 |
| 2,4,6-Tribromophenol | | 0.0379 | mg/L | 1 | 0.0800 | 47 | 10 - 135 |
| Terphenyl-d14 | | 0.106 | mg/L | 1 | 0.0800 | 132 | 28.2 - 134 |

**Sample: 113765 - HLSF-0085-DRW-008-0107**

| | | | | | |
|---|---|---|---|---|---|
| Analysis: | TDS | Analytical Method: | SM 2540C | Prep Method: | N/A |
| QC Batch: | 33818 | Date Analyzed: | 2007-01-17 | Analyzed By: | JG |
| Prep Batch: | 29374 | Sample Preparation: | 2007-01-17 | Prepared By: | JR |

| Parameter | Flag | Result | RL | Units | Dilution | RL |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | | **11500** | | mg/L | 1 | 5.00 |

**Sample: 113765 - HLSF-0085-DRW-008-0107**

| | | | | | |
|---|---|---|---|---|---|
| Analysis: | TOC | Analytical Method: | E 415.1 | Prep Method: | N/A |
| QC Batch: | 34065 | Date Analyzed: | 2007-01-28 | Analyzed By: | KV |
| Prep Batch: | 29563 | Sample Preparation: | | Prepared By: | KV |

| Parameter | Flag | Result | RL | Units | Dilution | RL |
|---|---|---|---|---|---|---|
| Total Organic Carbon | | <1.00 | | mg/L | 1 | 1.00 |

**Sample: 113765 - HLSF-0085-DRW-008-0107**

| | | | | | |
|---|---|---|---|---|---|
| Analysis: | Total Metals | Analytical Method: | S 6010B | Prep Method: | S 3010A |
| QC Batch: | 33924 | Date Analyzed: | 2007-01-24 | Analyzed By: | RR |
| Prep Batch: | 29246 | Sample Preparation: | 2007-01-16 | Prepared By: | TS |

| Parameter | Flag | Result | RL | Units | Dilution | RL |
|---|---|---|---|---|---|---|
| Total Silver | | <0.00200 | | mg/L | 1 | 0.00200 |
| Total Cadmium | | <0.00100 | | mg/L | 1 | 0.00100 |
| Total Chromium | | **1.06** | | mg/L | 1 | 0.00500 |

*continued . . .*

*sample 113765 continued . . .*

| Parameter | Flag | RL Result | Units | Dilution | RL |
|---|---|---|---|---|---|
| Total Copper | | **0.0260** | mg/L | 1 | 0.00500 |
| Total Phosphorous | | **0.0520** | mg/L | 1 | 0.0500 |
| Total Lead | | <0.00500 | mg/L | 1 | 0.00500 |
| Total Zinc | | <0.00500 | mg/L | 1 | 0.00500 |

**Sample: 113765 - HLSF-0085-DRW-008-0107**

| | | | | | |
|---|---|---|---|---|---|
| Analysis: | TPH DRO | Analytical Method: | Mod. 8015B | Prep Method: | N/A |
| QC Batch: | 33676 | Date Analyzed: | 2007-01-16 | Analyzed By: | SP |
| Prep Batch: | 29255 | Sample Preparation: | 2007-01-16 | Prepared By: | SP |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|---|---|---|---|---|---|
| DRO | | <5.00 | mg/L | 1 | 5.00 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|---|---|---|---|---|---|---|---|
| n-Triacontane | | 13.2 | mg/L | 1 | 15.0 | 88 | 57 - 132.3 |

**Sample: 113765 - HLSF-0085-DRW-008-0107**

| | | | | | |
|---|---|---|---|---|---|
| Analysis: | TPH GRO | Analytical Method: | S 8015B | Prep Method: | S 5030B |
| QC Batch: | 33608 | Date Analyzed: | 2007-01-12 | Analyzed By: | KB |
| Prep Batch: | 29202 | Sample Preparation: | 2007-01-12 | Prepared By: | KB |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|---|---|---|---|---|---|
| GRO | | <0.100 | mg/L | 1 | 0.100 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|---|---|---|---|---|---|---|---|
| Trifluorotoluene (TFT) | | 0.0956 | mg/L | 1 | 0.100 | 96 | 72.5 - 108 |
| 4-Bromofluorobenzene (4-BFB) | | 0.0928 | mg/L | 1 | 0.100 | 93 | 68.5 - 114 |

**Sample: 113765 - HLSF-0085-DRW-008-0107**

| | | | | | |
|---|---|---|---|---|---|
| Analysis: | Volatiles WTS | Analytical Method: | S 8260B | Prep Method: | S 3510C |
| QC Batch: | 33876 | Date Analyzed: | 2007-01-19 | Analyzed By: | JG |
| Prep Batch: | 29424 | Sample Preparation: | 2007-01-19 | Prepared By: | JG |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|---|---|---|---|---|---|
| Bromochloromethane | | <1.00 | µg/L | 1 | 1.00 |
| Dichlorodifluoromethane | | <1.00 | µg/L | 1 | 1.00 |
| Chloromethane (methyl chloride) | | <1.00 | µg/L | 1 | 1.00 |
| Vinyl Chloride | | <1.00 | µg/L | 1 | 1.00 |

*continued . . .*

*sample 113765 continued...*

| Parameter | Flag | Result | RL | Units | Dilution | RL |
|---|---|---|---|---|---|---|
| Bromomethane (methyl bromide) | | <5.00 | | µg/L | 1 | 5.00 |
| Chloroethane | | <1.00 | | µg/L | 1 | 1.00 |
| Trichlorofluoromethane | | <1.00 | | µg/L | 1 | 1.00 |
| Acetone | | <10.0 | | µg/L | 1 | 10.0 |
| Iodomethane (methyl iodide) | | <5.00 | | µg/L | 1 | 5.00 |
| Carbon Disulfide | | <1.00 | | µg/L | 1 | 1.00 |
| Acrylonitrile | | <1.00 | | µg/L | 1 | 1.00 |
| 2-Butanone (MEK) | | <5.00 | | µg/L | 1 | 5.00 |
| 4-Methyl-2-pentanone (MIBK) | | <5.00 | | µg/L | 1 | 5.00 |
| 2-Hexanone | | <5.00 | | µg/L | 1 | 5.00 |
| trans 1,4-Dichloro-2-butene | | <10.0 | | µg/L | 1 | 10.0 |
| 1,1-Dichloroethene | | <1.00 | | µg/L | 1 | 1.00 |
| Methylene chloride | | <5.00 | | µg/L | 1 | 5.00 |
| MTBE | | <1.00 | | µg/L | 1 | 1.00 |
| trans-1,2-Dichloroethene | | <1.00 | | µg/L | 1 | 1.00 |
| 1,1-Dichloroethane | | **3.18** | | µg/L | 1 | 1.00 |
| cis-1,2-Dichloroethene | | <1.00 | | µg/L | 1 | 1.00 |
| 2,2-Dichloropropane | | <1.00 | | µg/L | 1 | 1.00 |
| 1,2-Dichloroethane (EDC) | | <1.00 | | µg/L | 1 | 1.00 |
| Chloroform | | **1.22** | | µg/L | 1 | 1.00 |
| 1,1,1-Trichloroethane | | **1.39** | | µg/L | 1 | 1.00 |
| 1,1-Dichloropropene | | <1.00 | | µg/L | 1 | 1.00 |
| Benzene | | <1.00 | | µg/L | 1 | 1.00 |
| Carbon Tetrachloride | | <1.00 | | µg/L | 1 | 1.00 |
| 1,2-Dichloropropane | | <1.00 | | µg/L | 1 | 1.00 |
| Trichloroethene (TCE) | | <1.00 | | µg/L | 1 | 1.00 |
| Dibromomethane (methylene bromide) | | <1.00 | | µg/L | 1 | 1.00 |
| Bromodichloromethane | | <1.00 | | µg/L | 1 | 1.00 |
| 2-Chloroethyl vinyl ether | | <5.00 | | µg/L | 1 | 5.00 |
| cis-1,3-Dichloropropene | | <1.00 | | µg/L | 1 | 1.00 |
| trans-1,3-Dichloropropene | | <1.00 | | µg/L | 1 | 1.00 |
| Toluene | | <1.00 | | µg/L | 1 | 1.00 |
| 1,1,2-Trichloroethane | | <1.00 | | µg/L | 1 | 1.00 |
| 1,3-Dichloropropane | | <1.00 | | µg/L | 1 | 1.00 |
| Dibromochloromethane | | <1.00 | | µg/L | 1 | 1.00 |
| 1,2-Dibromoethane (EDB) | | <1.00 | | µg/L | 1 | 1.00 |
| Tetrachloroethene (PCE) | | <1.00 | | µg/L | 1 | 1.00 |
| Chlorobenzene | | <1.00 | | µg/L | 1 | 1.00 |
| 1,1,1,2-Tetrachloroethane | | <1.00 | | µg/L | 1 | 1.00 |
| Ethylbenzene | | <1.00 | | µg/L | 1 | 1.00 |
| m,p-Xylene | | <1.00 | | µg/L | 1 | 1.00 |
| Bromoform | | <1.00 | | µg/L | 1 | 1.00 |
| Styrene | | <1.00 | | µg/L | 1 | 1.00 |
| o-Xylene | | <1.00 | | µg/L | 1 | 1.00 |
| 1,1,2,2-Tetrachloroethane | | <1.00 | | µg/L | 1 | 1.00 |
| 2-Chlorotoluene | | <1.00 | | µg/L | 1 | 1.00 |
| 1,2,3-Trichloropropane | | <1.00 | | µg/L | 1 | 1.00 |
| Isopropylbenzene | | <1.00 | | µg/L | 1 | 1.00 |
| Bromobenzene | | <1.00 | | µg/L | 1 | 1.00 |

*continued...*

*sample 113765 continued . . .*

| Parameter | Flag | RL Result | Units | Dilution | RL |
|---|---|---|---|---|---|
| n-Propylbenzene | | <1.00 | µg/L | 1 | 1.00 |
| 1,3,5-Trimethylbenzene | | <1.00 | µg/L | 1 | 1.00 |
| tert-Butylbenzene | | <1.00 | µg/L | 1 | 1.00 |
| 1,2,4-Trimethylbenzene | | <1.00 | µg/L | 1 | 1.00 |
| 1,4-Dichlorobenzene (para) | | <1.00 | µg/L | 1 | 1.00 |
| sec-Butylbenzene | | <1.00 | µg/L | 1 | 1.00 |
| 1,3-Dichlorobenzene (meta) | | <1.00 | µg/L | 1 | 1.00 |
| p-Isopropyltoluene | | <1.00 | µg/L | 1 | 1.00 |
| 4-Chlorotoluene | | <1.00 | µg/L | 1 | 1.00 |
| 1,2-Dichlorobenzene (ortho) | | <1.00 | µg/L | 1 | 1.00 |
| n-Butylbenzene | | <1.00 | µg/L | 1 | 1.00 |
| 1,2-Dibromo-3-chloropropane | | <5.00 | µg/L | 1 | 5.00 |
| 1,2,3-Trichlorobenzene | | <5.00 | µg/L | 1 | 5.00 |
| 1,2,4-Trichlorobenzene | | <5.00 | µg/L | 1 | 5.00 |
| Naphthalene | | <5.00 | µg/L | 1 | 5.00 |
| Hexachlorobutadiene | | <5.00 | µg/L | 1 | 5.00 |
| Isopropyl Alcohol | | <5.00 | µg/L | 1 | 5.00 |
| Tert-butyl Alcohol | | <5.00 | µg/L | 1 | 5.00 |
| 1,4-Dioxane | | <5.00 | µg/L | 1 | 5.00 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|---|---|---|---|---|---|---|---|
| Dibromofluoromethane | | 54.6 | µg/L | 1 | 50.0 | 109 | 82.4 - 115 |
| Toluene-d8 | | 52.0 | µg/L | 1 | 50.0 | 104 | 89.7 - 108 |
| 4-Bromofluorobenzene (4-BFB) | | 46.2 | µg/L | 1 | 50.0 | 92 | 84.6 - 114 |

**Sample: 113766 - HLSF-0085-TB-742-0107**

| | | | | | |
|---|---|---|---|---|---|
| Analysis: | Volatiles WTS | Analytical Method: | S 8260B | Prep Method: | S 3510C |
| QC Batch: | 33876 | Date Analyzed: | 2007-01-19 | Analyzed By: | JG |
| Prep Batch: | 29424 | Sample Preparation: | 2007-01-19 | Prepared By: | JG |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|---|---|---|---|---|---|
| Bromochloromethane | | <1.00 | µg/L | 1 | 1.00 |
| Dichlorodifluoromethane | | <1.00 | µg/L | 1 | 1.00 |
| Chloromethane (methyl chloride) | | <1.00 | µg/L | 1 | 1.00 |
| Vinyl Chloride | | <1.00 | µg/L | 1 | 1.00 |
| Bromomethane (methyl bromide) | | <5.00 | µg/L | 1 | 5.00 |
| Chloroethane | | <1.00 | µg/L | 1 | 1.00 |
| Trichlorofluoromethane | | <1.00 | µg/L | 1 | 1.00 |
| Acetone | | <10.0 | µg/L | 1 | 10.0 |
| Iodomethane (methyl iodide) | | <5.00 | µg/L | 1 | 5.00 |
| Carbon Disulfide | | <1.00 | µg/L | 1 | 1.00 |
| Acrylonitrile | | <1.00 | µg/L | 1 | 1.00 |
| 2-Butanone (MEK) | | <5.00 | µg/L | 1 | 5.00 |
| 4-Methyl-2-pentanone (MIBK) | | <5.00 | µg/L | 1 | 5.00 |
| 2-Hexanone | | <5.00 | µg/L | 1 | 5.00 |

*continued . . .*

*sample 113766 continued . . .*

| Parameter | Flag | RL Result | Units | Dilution | RL |
|---|---|---|---|---|---|
| trans 1,4-Dichloro-2-butene | | <10.0 | µg/L | 1 | 10.0 |
| 1,1-Dichloroethene | | <1.00 | µg/L | 1 | 1.00 |
| Methylene chloride | *B* | **6.16** | µg/L | 1 | 5.00 |
| MTBE | | <1.00 | µg/L | 1 | 1.00 |
| trans-1,2-Dichloroethene | | <1.00 | µg/L | 1 | 1.00 |
| 1,1-Dichloroethane | | <1.00 | µg/L | 1 | 1.00 |
| cis-1,2-Dichloroethene | | <1.00 | µg/L | 1 | 1.00 |
| 2,2-Dichloropropane | | <1.00 | µg/L | 1 | 1.00 |
| 1,2-Dichloroethane (EDC) | | <1.00 | µg/L | 1 | 1.00 |
| Chloroform | | <1.00 | µg/L | 1 | 1.00 |
| 1,1,1-Trichloroethane | | <1.00 | µg/L | 1 | 1.00 |
| 1,1-Dichloropropene | | <1.00 | µg/L | 1 | 1.00 |
| Benzene | | <1.00 | µg/L | 1 | 1.00 |
| Carbon Tetrachloride | | <1.00 | µg/L | 1 | 1.00 |
| 1,2-Dichloropropane | | <1.00 | µg/L | 1 | 1.00 |
| Trichloroethene (TCE) | | <1.00 | µg/L | 1 | 1.00 |
| Dibromomethane (methylene bromide) | | <1.00 | µg/L | 1 | 1.00 |
| Bromodichloromethane | | <1.00 | µg/L | 1 | 1.00 |
| 2-Chloroethyl vinyl ether | | <5.00 | µg/L | 1 | 5.00 |
| cis-1,3-Dichloropropene | | <1.00 | µg/L | 1 | 1.00 |
| trans-1,3-Dichloropropene | | <1.00 | µg/L | 1 | 1.00 |
| Toluene | | <1.00 | µg/L | 1 | 1.00 |
| 1,1,2-Trichloroethane | | <1.00 | µg/L | 1 | 1.00 |
| 1,3-Dichloropropane | | <1.00 | µg/L | 1 | 1.00 |
| Dibromochloromethane | | <1.00 | µg/L | 1 | 1.00 |
| 1,2-Dibromoethane (EDB) | | <1.00 | µg/L | 1 | 1.00 |
| Tetrachloroethene (PCE) | | <1.00 | µg/L | 1 | 1.00 |
| Chlorobenzene | | <1.00 | µg/L | 1 | 1.00 |
| 1,1,1,2-Tetrachloroethane | | <1.00 | µg/L | 1 | 1.00 |
| Ethylbenzene | | <1.00 | µg/L | 1 | 1.00 |
| m,p-Xylene | | <1.00 | µg/L | 1 | 1.00 |
| Bromoform | | <1.00 | µg/L | 1 | 1.00 |
| Styrene | | <1.00 | µg/L | 1 | 1.00 |
| o-Xylene | | <1.00 | µg/L | 1 | 1.00 |
| 1,1,2,2-Tetrachloroethane | | <1.00 | µg/L | 1 | 1.00 |
| 2-Chlorotoluene | | <1.00 | µg/L | 1 | 1.00 |
| 1,2,3-Trichloropropane | | <1.00 | µg/L | 1 | 1.00 |
| Isopropylbenzene | | <1.00 | µg/L | 1 | 1.00 |
| Bromobenzene | | <1.00 | µg/L | 1 | 1.00 |
| n-Propylbenzene | | <1.00 | µg/L | 1 | 1.00 |
| 1,3,5-Trimethylbenzene | | <1.00 | µg/L | 1 | 1.00 |
| tert-Butylbenzene | | <1.00 | µg/L | 1 | 1.00 |
| 1,2,4-Trimethylbenzene | | <1.00 | µg/L | 1 | 1.00 |
| 1,4-Dichlorobenzene (para) | | <1.00 | µg/L | 1 | 1.00 |
| sec-Butylbenzene | | <1.00 | µg/L | 1 | 1.00 |
| 1,3-Dichlorobenzene (meta) | | <1.00 | µg/L | 1 | 1.00 |
| p-Isopropyltoluene | | <1.00 | µg/L | 1 | 1.00 |
| 4-Chlorotoluene | | <1.00 | µg/L | 1 | 1.00 |
| 1,2-Dichlorobenzene (ortho) | | <1.00 | µg/L | 1 | 1.00 |

*continued . . .*

*sample 113766 continued . . .*

| Parameter | Flag | RL Result | Units | Dilution | RL |
|---|---|---|---|---|---|
| n-Butylbenzene | | <1.00 | µg/L | 1 | 1.00 |
| 1,2-Dibromo-3-chloropropane | | <5.00 | µg/L | 1 | 5.00 |
| 1,2,3-Trichlorobenzene | | <5.00 | µg/L | 1 | 5.00 |
| 1,2,4-Trichlorobenzene | | <5.00 | µg/L | 1 | 5.00 |
| Naphthalene | | <5.00 | µg/L | 1 | 5.00 |
| Hexachlorobutadiene | | <5.00 | µg/L | 1 | 5.00 |
| Isopropyl Alcohol | | <5.00 | µg/L | 1 | 5.00 |
| Tert-butyl Alcohol | | <5.00 | µg/L | 1 | 5.00 |
| 1,4-Dioxane | | <5.00 | µg/L | 1 | 5.00 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|---|---|---|---|---|---|---|---|
| Dibromofluoromethane | | 53.6 | µg/L | 1 | 50.0 | 107 | 82.4 - 115 |
| Toluene-d8 | | 51.8 | µg/L | 1 | 50.0 | 104 | 89.7 - 108 |
| 4-Bromofluorobenzene (4-BFB) | | 46.8 | µg/L | 1 | 50.0 | 94 | 84.6 - 114 |

**Method Blank (1)** QC Batch: 33608

QC Batch: 33608 | Date Analyzed: 2007-01-12 | Analyzed By: KB
Prep Batch: 29202 | QC Preparation: 2007-01-12 | Prepared By: KB

| Parameter | Flag | MDL Result | Units | RL |
|---|---|---|---|---|
| GRO | | <0.0288 | mg/L | 0.1 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|---|---|---|---|---|---|---|---|
| Trifluorotoluene (TFT) | | 0.100 | mg/L | 1 | 0.100 | 100 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | 0.0986 | mg/L | 1 | 0.100 | 99 | 70 - 130 |

**Method Blank (1)** QC Batch: 33615

QC Batch: 33615 | Date Analyzed: 2007-01-12 | Analyzed By: DR
Prep Batch: 29209 | QC Preparation: 2007-01-12 | Prepared By: DR

| Parameter | Flag | MDL Result | Units | RL |
|---|---|---|---|---|
| Specific Conductance | | 0.00 | µMHOS/cm | |

**Method Blank (1)** QC Batch: 33661

QC Batch: 33661 | Date Analyzed: 2007-01-15 | Analyzed By: DS
Prep Batch: 29243 | QC Preparation: 2007-01-15 | Prepared By: DS

| Parameter | Flag | MDL Result | Units | RL |
|---|---|---|---|---|
| Pyridine | | <0.000235 | mg/L | 0.005 |
| n-Nitrosodimethylamine | | <0.00143 | mg/L | 0.005 |
| 2-Picoline | | <0.000437 | mg/L | 0.005 |
| Methyl methanesulfonate | | <0.000662 | mg/L | 0.005 |
| Ethyl methanesulfonate | | <0.000990 | mg/L | 0.005 |
| Phenol | | <0.000591 | mg/L | 0.005 |
| Aniline | | <0.000774 | mg/L | 0.005 |
| bis(2-chloroethyl)ether | | <0.00116 | mg/L | 0.005 |
| 2-Chlorophenol | | <0.00279 | mg/L | 0.005 |
| 1,3-Dichlorobenzene (meta) | | <0.000784 | mg/L | 0.005 |
| 1,4-Dichlorobenzene (para) | | <0.000820 | mg/L | 0.005 |
| Benzyl alcohol | | <0.000607 | mg/L | 0.005 |
| 1,2-Dichlorobenzene (ortho) | | <0.000869 | mg/L | 0.005 |
| 2-Methylphenol | | <0.000950 | mg/L | 0.005 |
| bis(2-chloroisopropyl)ether | | <0.00151 | mg/L | 0.005 |
| 4-Methylphenol / 3-Methylphenol | | <0.000782 | mg/L | 0.005 |
| n-Nitrosodi-n-propylamine | | <0.00117 | mg/L | 0.005 |
| Hexachloroethane | | <0.000738 | mg/L | 0.005 |
| Acetophenone | | <0.00131 | mg/L | 0.005 |
| Nitrobenzene | | <0.00121 | mg/L | 0.005 |
| n-Nitrosopiperidine | | <0.00150 | mg/L | 0.005 |
| Isophorone | | <0.00114 | mg/L | 0.005 |
| 2-Nitrophenol | | <0.00430 | mg/L | 0.005 |
| 2,4-Dimethylphenol | | <0.00110 | mg/L | 0.005 |
| bis(2-chloroethoxy)methane | | <0.00126 | mg/L | 0.005 |
| 2,4-Dichlorophenol | | <0.00372 | mg/L | 0.005 |
| 1,2,4-Trichlorobenzene | | <0.00108 | mg/L | 0.005 |
| Benzoic acid | | <0.000478 | mg/L | 0.005 |
| Naphthalene | | <0.00123 | mg/L | 0.005 |
| a,a-Dimethylphenethylamine | | <0.00316 | mg/L | 0.005 |
| 4-Chloroaniline | | <0.000998 | mg/L | 0.005 |
| 2,6-Dichlorophenol | | <0.00604 | mg/L | 0.01 |
| Hexachlorobutadiene | | <0.00104 | mg/L | 0.005 |
| n-Nitroso-di-n-butylamine | | <0.00159 | mg/L | 0.005 |
| 4-Chloro-3-methylphenol | | <0.00102 | mg/L | 0.005 |
| 2-Methylnaphthalene | | <0.00119 | mg/L | 0.005 |
| 1-Methylnaphthalene | | <0.00118 | mg/L | 0.005 |
| 1,2,4,5-Tetrachlorobenzene | | <0.00104 | mg/L | 0.005 |
| Hexachlorocyclopentadiene | | <0.000808 | mg/L | 0.005 |
| 2,4,6-Trichlorophenol | | <0.00538 | mg/L | 0.01 |
| 2,4,5-Trichlorophenol | | <0.00477 | mg/L | 0.005 |
| 2-Chloronaphthalene | | <0.00110 | mg/L | 0.005 |
| 1-Chloronaphthalene | | <0.00110 | mg/L | 0.005 |
| 2-Nitroaniline | | <0.00103 | mg/L | 0.005 |
| Dimethylphthalate | | <0.000832 | mg/L | 0.005 |
| Acenaphthylene | | <0.00104 | mg/L | 0.005 |
| 2,6-Dinitrotoluene | | <0.00103 | mg/L | 0.005 |
| 3-Nitroaniline | | <0.000706 | mg/L | 0.005 |
| Acenaphthene | | <0.000990 | mg/L | 0.005 |
| 2,4-Dinitrophenol | | <0.00261 | mg/L | 0.005 |
| Dibenzofuran | | <0.000945 | mg/L | 0.005 |

*continued . . .*

*method blank continued . . .*

| Parameter | Flag | MDL Result | Units | RL |
|---|---|---|---|---|
| Pentachlorobenzene | | <0.000907 | mg/L | 0.005 |
| 4-Nitrophenol | | <0.00914 | mg/L | 0.025 |
| 2,4-Dinitrotoluene | | <0.000729 | mg/L | 0.005 |
| 1-Naphthylamine | | <0.000928 | mg/L | 0.005 |
| 2,3,4,6-Tetrachlorophenol | | <0.00510 | mg/L | 0.01 |
| 2-Naphthylamine | | <0.00100 | mg/L | 0.005 |
| Fluorene | | <0.000919 | mg/L | 0.005 |
| 4-Chlorophenyl-phenylether | | <0.000952 | mg/L | 0.005 |
| Diethylphthalate | | <0.000816 | mg/L | 0.005 |
| 4-Nitroaniline | | <0.000622 | mg/L | 0.005 |
| Diphenylhydrazine | | <0.000786 | mg/L | 0.005 |
| 4,6-Dinitro-2-methylphenol | | <0.00311 | mg/L | 0.005 |
| Diphenylamine | | <0.000860 | mg/L | 0.005 |
| 4-Bromophenyl-phenylether | | <0.000871 | mg/L | 0.005 |
| Phenacetin | | <0.000550 | mg/L | 0.005 |
| Hexachlorobenzene | | <0.000920 | mg/L | 0.005 |
| 4-Aminobiphenyl | | <0.000934 | mg/L | 0.005 |
| Pentachlorophenol | | <0.00539 | mg/L | 0.01 |
| Anthracene | | <0.000826 | mg/L | 0.005 |
| Pentachloronitrobenzene | | <0.000934 | mg/L | 0.005 |
| Pronamide | | <0.000716 | mg/L | 0.005 |
| Phenanthrene | | <0.000830 | mg/L | 0.005 |
| Di-n-butylphthalate | | <0.000811 | mg/L | 0.005 |
| Fluoranthene | | <0.000778 | mg/L | 0.005 |
| Benzidine | | <0.0167 | mg/L | 0.025 |
| Pyrene | | <0.00101 | mg/L | 0.005 |
| p-Dimethylaminoazobenzene | | <0.000974 | mg/L | 0.005 |
| Butylbenzylphthalate | | <0.000900 | mg/L | 0.005 |
| Benzo(a)anthracene | | <0.000632 | mg/L | 0.005 |
| 3,3-Dichlorobenzidine | | <0.000938 | mg/L | 0.005 |
| Chrysene | | <0.000937 | mg/L | 0.005 |
| bis(2-ethylhexyl)phthalate | | 0.0245 | mg/L | 0.005 |
| Di-n-octylphthalate | | <0.000689 | mg/L | 0.005 |
| Benzo(b)fluoranthene | | <0.000492 | mg/L | 0.005 |
| Benzo(k)fluoranthene | | <0.000887 | mg/L | 0.005 |
| 7,12-Dimethylbenz(a)anthracene | | <0.000687 | mg/L | 0.005 |
| Benzo(a)pyrene | | <0.000712 | mg/L | 0.005 |
| 3-Methylcholanthrene | | <0.000641 | mg/L | 0.005 |
| Dibenzo(a,j)acridine | | <0.000620 | mg/L | 0.005 |
| Indeno(1,2,3-cd)pyrene | | <0.000655 | mg/L | 0.005 |
| Dibenzo(a,h)anthracene | | <0.000684 | mg/L | 0.005 |
| Benzo(g,h,i)perylene | | <0.000324 | mg/L | 0.005 |
| 2-Butoxy Ethanol | | <0.00150 | mg/L | 0.005 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|---|---|---|---|---|---|---|---|
| 2-Fluorophenol | | 0.0256 | mg/L | 1 | 0.0800 | 32 | 15.6 - 49.6 |
| Phenol-d5 | | 0.0196 | mg/L | 1 | 0.0800 | 24 | 10.2 - 33.6 |
| Nitrobenzene-d5 | | 0.0586 | mg/L | 1 | 0.0800 | 73 | 46.7 - 112 |
| 2-Fluorobiphenyl | | 0.0617 | mg/L | 1 | 0.0800 | 77 | 44.4 - 108 |

*continued . . .*

*method blank continued ...*

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|---|---|---|---|---|---|---|---|
| 2,4,6-Tribromophenol | | 0.0391 | mg/L | 1 | 0.0800 | 49 | 24.9 - 147 |
| Terphenyl-d14 | | 0.0960 | mg/L | 1 | 0.0800 | 120 | 25.6 - 143 |

**Method Blank (1)** QC Batch: 33676

QC Batch: 33676 Date Analyzed: 2007-01-16 Analyzed By: SP
Prep Batch: 29255 QC Preparation: 2007-01-16 Prepared By: SP

| Parameter | Flag | MDL Result | Units | RL |
|---|---|---|---|---|
| DRO | | <1.19 | mg/L | 5 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|---|---|---|---|---|---|---|---|
| n-Triacontane | | 15.3 | mg/L | 1 | 15.0 | 102 | 57 - 132.3 |

**Method Blank (1)** QC Batch: 33818

QC Batch: 33818 Date Analyzed: 2007-01-17 Analyzed By: JG
Prep Batch: 29374 QC Preparation: 2007-01-17 Prepared By: JG

| Parameter | Flag | MDL Result | Units | RL |
|---|---|---|---|---|
| Total Dissolved Solids | | <5.00 | mg/L | 5 |

**Method Blank (1)** QC Batch: 33857

QC Batch: 33857 Date Analyzed: 2007-01-22 Analyzed By: SM
Prep Batch: 29393 QC Preparation: 2007-01-22 Prepared By: SM

| Parameter | Flag | MDL Result | Units | RL |
|---|---|---|---|---|
| Ammonia-N | | <0.820 | mg/L | 1 |

**Method Blank (1)** QC Batch: 33876

QC Batch: 33876 Date Analyzed: 2007-01-19 Analyzed By: JG
Prep Batch: 29424 QC Preparation: 2007-01-19 Prepared By: JG

| Parameter | Flag | MDL Result | Units | RL |
|---|---|---|---|---|
| Bromochloromethane | | <0.0699 | µg/L | 1 |
| Dichlorodifluoromethane | | <0.0598 | µg/L | 1 |
| Chloromethane (methyl chloride) | | <0.230 | µg/L | 1 |
| Vinyl Chloride | | <0.0902 | µg/L | 1 |

*continued ...*

*method blank continued . . .*

| Parameter | Flag | MDL Result | Units | RL |
|---|---|---|---|---|
| Bromomethane (methyl bromide) | | <0.740 | µg/L | 5 |
| Chloroethane | | <0.195 | µg/L | 1 |
| Trichlorofluoromethane | | <0.160 | µg/L | 1 |
| Acetone | | 2.34 | µg/L | 10 |
| Iodomethane (methyl iodide) | | <0.112 | µg/L | 5 |
| Carbon Disulfide | | <0.0764 | µg/L | 1 |
| Acrylonitrile | | <0.184 | µg/L | 1 |
| 2-Butanone (MEK) | | <0.394 | µg/L | 5 |
| 4-Methyl-2-pentanone (MIBK) | | <0.484 | µg/L | 5 |
| 2-Hexanone | | <0.0975 | µg/L | 5 |
| trans 1,4-Dichloro-2-butene | | <0.420 | µg/L | 10 |
| 1,1-Dichloroethene | | <0.0736 | µg/L | 1 |
| Methylene chloride | | 7.05 | µg/L | 5 |
| MTBE | | <0.0504 | µg/L | 1 |
| trans-1,2-Dichloroethene | | <0.0598 | µg/L | 1 |
| 1,1-Dichloroethane | | <0.0299 | µg/L | 1 |
| cis-1,2-Dichloroethene | | <0.101 | µg/L | 1 |
| 2,2-Dichloropropane | | <0.0665 | µg/L | 1 |
| 1,2-Dichloroethane (EDC) | | <0.0557 | µg/L | 1 |
| Chloroform | | <0.0475 | µg/L | 1 |
| 1,1,1-Trichloroethane | | <0.0846 | µg/L | 1 |
| 1,1-Dichloropropene | | <0.0423 | µg/L | 1 |
| Benzene | | <0.0495 | µg/L | 1 |
| Carbon Tetrachloride | | <0.121 | µg/L | 1 |
| 1,2-Dichloropropane | | <0.0933 | µg/L | 1 |
| Trichloroethene (TCE) | | <0.0495 | µg/L | 1 |
| Dibromomethane (methylene bromide) | | <0.0640 | µg/L | 1 |
| Bromodichloromethane | | <0.0651 | µg/L | 1 |
| 2-Chloroethyl vinyl ether | | <0.0905 | µg/L | 5 |
| cis-1,3-Dichloropropene | | <0.0640 | µg/L | 1 |
| trans-1,3-Dichloropropene | | <0.0504 | µg/L | 1 |
| Toluene | | 0.200 | µg/L | 1 |
| 1,1,2-Trichloroethane | | <0.106 | µg/L | 1 |
| 1,3-Dichloropropane | | <0.0625 | µg/L | 1 |
| Dibromochloromethane | | <0.0791 | µg/L | 1 |
| 1,2-Dibromoethane (EDB) | | <0.0460 | µg/L | 1 |
| Tetrachloroethene (PCE) | | <0.0696 | µg/L | 1 |
| Chlorobenzene | | <0.0217 | µg/L | 1 |
| 1,1,1,2-Tetrachloroethane | | <0.125 | µg/L | 1 |
| Ethylbenzene | | <0.0566 | µg/L | 1 |
| m,p-Xylene | | <0.0363 | µg/L | 1 |
| Bromoform | | <0.0859 | µg/L | 1 |
| Styrene | | <0.0394 | µg/L | 1 |
| o-Xylene | | <0.0505 | µg/L | 1 |
| 1,1,2,2-Tetrachloroethane | | <0.0672 | µg/L | 1 |
| 2-Chlorotoluene | | <0.0283 | µg/L | 1 |
| 1,2,3-Trichloropropane | | <0.0679 | µg/L | 1 |
| Isopropylbenzene | | <0.0406 | µg/L | 1 |
| Bromobenzene | | <0.103 | µg/L | 1 |
| n-Propylbenzene | | <0.0423 | µg/L | 1 |

*continued . . .*

*method blank continued ...*

| Parameter | Flag | MDL Result | Units | RL |
|---|---|---|---|---|
| 1,3,5-Trimethylbenzene | | <0.0557 | µg/L | 1 |
| tert-Butylbenzene | | <0.0770 | µg/L | 1 |
| 1,2,4-Trimethylbenzene | | <0.0336 | µg/L | 1 |
| 1,4-Dichlorobenzene (para) | | <0.0672 | µg/L | 1 |
| sec-Butylbenzene | | <0.0439 | µg/L | 1 |
| 1,3-Dichlorobenzene (meta) | | <0.0672 | µg/L | 1 |
| p-Isopropyltoluene | | <0.0513 | µg/L | 1 |
| 4-Chlorotoluene | | <0.0460 | µg/L | 1 |
| 1,2-Dichlorobenzene (ortho) | | <0.0629 | µg/L | 1 |
| n-Butylbenzene | | <0.0400 | µg/L | 1 |
| 1,2-Dibromo-3-chloropropane | | <0.538 | µg/L | 5 |
| 1,2,3-Trichlorobenzene | | <0.504 | µg/L | 5 |
| 1,2,4-Trichlorobenzene | | <0.166 | µg/L | 5 |
| Naphthalene | | 1.45 | µg/L | 5 |
| Hexachlorobutadiene | | <0.176 | µg/L | 5 |
| Isopropyl Alcohol | | <5.00 | µg/L | 5 |
| Tert-butyl Alcohol | | <5.00 | µg/L | 5 |
| 1,4-Dioxane | | <5.00 | µg/L | 5 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|---|---|---|---|---|---|---|---|
| Dibromofluoromethane | | 52.0 | µg/L | 1 | 50.0 | 104 | 82.4 - 115 |
| Toluene-d8 | | 51.8 | µg/L | 1 | 50.0 | 104 | 89.7 - 108 |
| 4-Bromofluorobenzene (4-BFB) | | 47.0 | µg/L | 1 | 50.0 | 94 | 84.6 - 114 |

**Method Blank (1)** QC Batch: 33909

QC Batch: 33909 | Date Analyzed: 2007-01-22 | Analyzed By: TP
Prep Batch: 29250 | QC Preparation: 2007-01-16 | Prepared By: TS

| Parameter | Flag | MDL Result | Units | RL |
|---|---|---|---|---|
| Dissolved Sodium | | <0.0309 | mg/L | 0.5 |

**Method Blank (1)** QC Batch: 33914

QC Batch: 33914 | Date Analyzed: 2007-01-16 | Analyzed By: JR
Prep Batch: 29454 | QC Preparation: 2007-01-16 | Prepared By: JR

| Parameter | Flag | MDL Result | Units | RL |
|---|---|---|---|---|
| Bromide | | <0.0217 | mg/L | 0.2 |
| Chloride | | <0.0257 | mg/L | 2 |
| Fluoride | | <0.0168 | mg/L | 0.2 |
| Sulfate | | <0.0598 | mg/L | 1 |

**Method Blank (1)** QC Batch: 33916

| | | | | | |
|---|---|---|---|---|---|
| QC Batch: | 33916 | Date Analyzed: | 2007-01-23 | Analyzed By: | TP |
| Prep Batch: | 29246 | QC Preparation: | 2007-01-16 | Prepared By: | TS |

| Parameter | Flag | MDL Result | Units | RL |
|---|---|---|---|---|
| Total Sodium | | 2.41 | mg/L | 0.5 |

**Method Blank (1)** QC Batch: 33924

| | | | | | |
|---|---|---|---|---|---|
| QC Batch: | 33924 | Date Analyzed: | 2007-01-24 | Analyzed By: | RR |
| Prep Batch: | 29246 | QC Preparation: | 2007-01-16 | Prepared By: | TS |

| Parameter | Flag | MDL Result | Units | RL |
|---|---|---|---|---|
| Total Silver | | <0.000274 | mg/L | 0.002 |
| Total Cadmium | | <0.000268 | mg/L | 0.001 |
| Total Chromium | | <0.00357 | mg/L | 0.005 |
| Total Copper | | <0.00127 | mg/L | 0.005 |
| Total Phosphorous | | <0.0229 | mg/L | 0.05 |
| Total Lead | | <0.00310 | mg/L | 0.005 |
| Total Zinc | | <0.000666 | mg/L | 0.005 |

**Method Blank (1)** QC Batch: 33961

| | | | | | |
|---|---|---|---|---|---|
| QC Batch: | 33961 | Date Analyzed: | 2007-01-24 | Analyzed By: | JS |
| Prep Batch: | 29492 | QC Preparation: | 2007-01-24 | Prepared By: | JS |

| Parameter | Flag | MDL Result | Units | RL |
|---|---|---|---|---|
| Nitrate and Nitrite as N | | <0.0223 | mg/L | 0.1 |

**Method Blank (1)** QC Batch: 33986

| | | | | | |
|---|---|---|---|---|---|
| QC Batch: | 33986 | Date Analyzed: | 2007-01-25 | Analyzed By: | RR |
| Prep Batch: | 29250 | QC Preparation: | 2007-01-16 | Prepared By: | TS |

| Parameter | Flag | MDL Result | Units | RL |
|---|---|---|---|---|
| Dissolved Silver | | <0.000199 | mg/L | 0.002 |
| Dissolved Cadmium | | <0.000577 | mg/L | 0.001 |
| Dissolved Chromium | | <0.00357 | mg/L | 0.005 |
| Dissolved Copper | | <0.00127 | mg/L | 0.0125 |
| Dissolved Lead | | <0.00398 | mg/L | 0.005 |
| Dissolved Zinc | | <0.00300 | mg/L | 0.005 |

**Method Blank (1)** QC Batch: 34056

QC Batch: 34056 Date Analyzed: 2007-01-24 Analyzed By: JG
Prep Batch: 29556 QC Preparation: 2007-01-24 Prepared By: JG

| Parameter | Flag | MDL Result | Units | RL |
|---|---|---|---|---|
| Hydroxide Alkalinity | | <1.00 | mg/L as CaCo3 | 1 |
| Carbonate Alkalinity | | <1.00 | mg/L as CaCo3 | 1 |
| Bicarbonate Alkalinity | | <4.00 | mg/L as CaCo3 | 4 |
| Total Alkalinity | | <2.38 | mg/L as CaCo3 | 4 |

**Method Blank (1)** QC Batch: 34065

QC Batch: 34065 Date Analyzed: 2007-01-28 Analyzed By: KV
Prep Batch: 29563 QC Preparation: 2007-01-28 Prepared By: KV

| Parameter | Flag | MDL Result | Units | RL |
|---|---|---|---|---|
| Total Organic Carbon | | <0.382 | mg/L | 1 |

**Duplicates (1)**

QC Batch: 33615 Date Analyzed: 2007-01-12 Analyzed By: DR
Prep Batch: 29209 QC Preparation: 2007-01-12 Prepared By: DR

| Param | Duplicate Result | Sample Result | Units | Dilution | RPD | RPD Limit |
|---|---|---|---|---|---|---|
| Specific Conductance | 16300 | 16500 | µMHOS/cm | 1 | 1 | 6.7 |

**Duplicates (1)**

QC Batch: 33698 Date Analyzed: 2007-01-12 Analyzed By: DR
Prep Batch: 29271 QC Preparation: 2007-01-12 Prepared By: DR

| Param | Duplicate Result | Sample Result | Units | Dilution | RPD | RPD Limit |
|---|---|---|---|---|---|---|
| pH | 7.52 | 7.52 | s.u. | 1 | 0 | 20 |

**Duplicates (1)**

QC Batch: 33818 Date Analyzed: 2007-01-17 Analyzed By: JG
Prep Batch: 29374 QC Preparation: 2007-01-17 Prepared By: JG

| Param | Duplicate Result | Sample Result | Units | Dilution | RPD | RPD Limit |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | 27100 | 27500 | mg/L | 1 | 2 | 20 |

**Duplicates (1)**

QC Batch: 34056 | Date Analyzed: 2007-01-24 | Analyzed By: JG
Prep Batch: 29556 | QC Preparation: 2007-01-24 | Prepared By: JG

| Param | Duplicate Result | Sample Result | Units | Dilution | RPD | RPD Limit |
|---|---|---|---|---|---|---|
| Hydroxide Alkalinity | <1.00 | <1.00 | mg/L as CaCo3 | 1 | 0 | 6.3 |
| Carbonate Alkalinity | <1.00 | <1.00 | mg/L as CaCo3 | 1 | 0 | 6.3 |
| Bicarbonate Alkalinity | 104 | 102 | mg/L as CaCo3 | 1 | 2 | 6.3 |
| Total Alkalinity | 104 | 102 | mg/L as CaCo3 | 1 | 2 | 6.3 |

**Laboratory Control Spike (LCS-1)**

QC Batch: 33608 | Date Analyzed: 2007-01-12 | Analyzed By: KB
Prep Batch: 29202 | QC Preparation: 2007-01-12 | Prepared By: KB

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| GRO | 0.947 | mg/L | 1 | 1.00 | <0.0288 | 95 | 69.7 - 132 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| GRO | 0.952 | mg/L | 1 | 1.00 | <0.0288 | 95 | 69.7 - 132 | 0 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|---|
| Trifluorotoluene (TFT) | 0.112 | 0.110 | mg/L | 1 | 0.100 | 112 | 110 | 74.4 - 114 |
| 4-Bromofluorobenzene (4-BFB) | 0.106 | 0.103 | mg/L | 1 | 0.100 | 106 | 103 | 81.1 - 112 |

**Laboratory Control Spike (LCS-1)**

QC Batch: 33661 | Date Analyzed: 2007-01-15 | Analyzed By: DS
Prep Batch: 29243 | QC Preparation: 2007-01-15 | Prepared By: DS

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Phenol | 0.0183 | mg/L | 1 | 0.0800 | <0.000590 | 23 | 10 - 51.1 |
| 2-Chlorophenol | 0.0452 | mg/L | 1 | 0.0800 | <0.00279 | 56 | 10 - 116 |
| 1,4-Dichlorobenzene (para) | 0.0446 | mg/L | 1 | 0.0800 | <0.000817 | 56 | 10.7 - 109 |
| n-Nitrosodi-n-propylamine | 0.0667 | mg/L | 1 | 0.0800 | <0.00117 | 83 | 16.9 - 125 |
| 1,2,4-Trichlorobenzene | 0.0508 | mg/L | 1 | 0.0800 | <0.00108 | 64 | 13.9 - 134 |
| 4-Chloro-3-methylphenol | 0.0472 | mg/L | 1 | 0.0800 | <0.00102 | 59 | 13.3 - 141 |
| Acenaphthene | 0.0507 | mg/L | 1 | 0.0800 | <0.000990 | 63 | 34 - 120 |
| 4-Nitrophenol [1] | <0.00914 | mg/L | 1 | 0.0800 | <0.00914 | 0 | 12.8 - 106 |
| 2,4-Dinitrotoluene | 0.0386 | mg/L | 1 | 0.0800 | <0.000729 | 48 | 40.5 - 142 |
| Pentachlorophenol | 0.0321 | mg/L | 1 | 0.0800 | <0.00539 | 40 | 10 - 152 |

*continued . . .*

[1] 4-Nitrophenol out of control limits for LCS/LCSD due to erratic performance of analyte. •

*control spikes continued . . .*

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Pyrene | 0.0810 | mg/L | 1 | 0.0800 | <0.00101 | 101 | 47.2 - 151 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Phenol | 0.0159 | mg/L | 1 | 0.0800 | <0.000590 | 20 | 10 - 51.1 | 14 | 20 |
| 2-Chlorophenol | 0.0392 | mg/L | 1 | 0.0800 | <0.00279 | 49 | 10 - 116 | 14 | 20 |
| 1,4-Dichlorobenzene (para) | 0.0409 | mg/L | 1 | 0.0800 | <0.000817 | 51 | 10.7 - 109 | 9 | 20 |
| n-Nitrosodi-n-propylamine | 0.0493 | mg/L | 1 | 0.0800 | <0.00117 | 62 | 16.9 - 125 | 30 | 20 |
| 1,2,4-Trichlorobenzene | 0.0478 | mg/L | 1 | 0.0800 | <0.00108 | 60 | 13.9 - 134 | 6 | 20 |
| 4-Chloro-3-methylphenol | 0.0389 | mg/L | 1 | 0.0800 | <0.00102 | 49 | 13.3 - 141 | 19 | 20 |
| Acenaphthene | 0.0480 | mg/L | 1 | 0.0800 | <0.000990 | 60 | 34 - 120 | 6 | 20 |
| 4-Nitrophenol [2] | <0.00914 | mg/L | 1 | 0.0800 | <0.00914 | 0 | 12.8 - 106 | 0 | 20 |
| 2,4-Dinitrotoluene | 0.0380 | mg/L | 1 | 0.0800 | <0.000729 | 48 | 40.5 - 142 | 2 | 20 |
| Pentachlorophenol | 0.0330 | mg/L | 1 | 0.0800 | <0.00539 | 41 | 10 - 152 | 3 | 20 |
| Pyrene | 0.0748 | mg/L | 1 | 0.0800 | <0.00101 | 94 | 47.2 - 151 | 8 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|---|
| 2-Fluorophenol | 0.0252 | 0.0229 | mg/L | 1 | 0.0800 | 32 | 29 | 10 - 77.8 |
| Phenol-d5 | 0.0196 | 0.0170 | mg/L | 1 | 0.0800 | 24 | 21 | 10 - 47 |
| Nitrobenzene-d5 | 0.0567 | 0.0528 | mg/L | 1 | 0.0800 | 71 | 66 | 10 - 170 |
| 2-Fluorobiphenyl | 0.0636 | 0.0597 | mg/L | 1 | 0.0800 | 80 | 75 | 10 - 200 |
| 2,4,6-Tribromophenol | 0.0405 | 0.0371 | mg/L | 1 | 0.0800 | 51 | 46 | 29 - 99.9 |
| Terphenyl-d14 | 0.0949 | 0.0873 | mg/L | 1 | 0.0800 | 119 | 109 | 10 - 179 |

**Laboratory Control Spike (LCS-1)**

QC Batch: 33676
Prep Batch: 29255
Date Analyzed: 2007-01-16
QC Preparation: 2007-01-16
Analyzed By: SP
Prepared By: SP

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| DRO | 26.4 | mg/L | 1 | 25.0 | <1.19 | 106 | 73.2 - 123 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| DRO | 26.9 | mg/L | 1 | 25.0 | <1.19 | 108 | 73.2 - 123 | 2 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|---|
| n-Triacontane | 15.4 | 15.4 | mg/L | 1 | 15.0 | 103 | 103 | 57 - 132.3 |

[2] 4-Nitrophenol out of control limits for LCS/LCSD due to erratic performance of analyte. •

**Laboratory Control Spike (LCS-1)**

QC Batch: 33857 | Date Analyzed: 2007-01-22 | Analyzed By: SM
Prep Batch: 29393 | QC Preparation: 2007-01-22 | Prepared By: SM

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Ammonia-N | 4.48 | mg/L | 1 | 5.00 | <0.820 | 90 | 68.5 - 111 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Ammonia-N | 4.65 | mg/L | 1 | 5.00 | <0.820 | 93 | 68.5 - 111 | 4 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**

QC Batch: 33876 | Date Analyzed: 2007-01-19 | Analyzed By: JG
Prep Batch: 29424 | QC Preparation: 2007-01-19 | Prepared By: JG

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 52.8 | µg/L | 1 | 50.0 | <0.0736 | 106 | 83.4 - 114 |
| Benzene | 52.8 | µg/L | 1 | 50.0 | <0.0495 | 106 | 83.5 - 115 |
| Trichloroethene (TCE) | 49.9 | µg/L | 1 | 50.0 | <0.0495 | 100 | 91.3 - 111 |
| Toluene | 48.4 | µg/L | 1 | 50.0 | <0.0736 | 97 | 82 - 110 |
| Chlorobenzene | 50.2 | µg/L | 1 | 50.0 | <0.0217 | 100 | 87.9 - 109 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 52.8 | µg/L | 1 | 50.0 | <0.0736 | 106 | 83.4 - 114 | 0 | 20 |
| Benzene | 52.7 | µg/L | 1 | 50.0 | <0.0495 | 105 | 83.5 - 115 | 0 | 20 |
| Trichloroethene (TCE) | 50.5 | µg/L | 1 | 50.0 | <0.0495 | 101 | 91.3 - 111 | 1 | 20 |
| Toluene | 49.0 | µg/L | 1 | 50.0 | <0.0736 | 98 | 82 - 110 | 1 | 20 |
| Chlorobenzene | 50.2 | µg/L | 1 | 50.0 | <0.0217 | 100 | 87.9 - 109 | 0 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|---|
| Dibromofluoromethane | 51.7 | 52.2 | µg/L | 1 | 50.0 | 103 | 104 | 82.4 - 115 |
| Toluene-d8 | 50.7 | 50.3 | µg/L | 1 | 50.0 | 101 | 101 | 89.7 - 108 |
| 4-Bromofluorobenzene (4-BFB) | 50.6 | 48.9 | µg/L | 1 | 50.0 | 101 | 98 | 84.6 - 114 |

**Laboratory Control Spike (LCS-1)**

QC Batch: 33909 | Date Analyzed: 2007-01-22 | Analyzed By: TP
Prep Batch: 29250 | QC Preparation: 2007-01-16 | Prepared By: TS

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Dissolved Sodium | 51.9 | mg/L | 1 | 50.0 | <0.0309 | 104 | 79.4 - 123 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Dissolved Sodium | 50.8 | mg/L | 1 | 50.0 | <0.0309 | 102 | 79.4 - 123 | 2 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**

QC Batch: 33914 | Date Analyzed: 2007-01-16 | Analyzed By: JR
Prep Batch: 29454 | QC Preparation: 2007-01-16 | Prepared By: JR

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Bromide | 2.44 | mg/L | 1 | 2.50 | <0.0217 | 98 | 90 - 110 |
| Chloride | 12.0 | mg/L | 1 | 12.5 | <0.0257 | 96 | 90 - 110 |
| Fluoride | 2.47 | mg/L | 1 | 2.50 | <0.0168 | 99 | 88.6 - 107 |
| Sulfate | 12.5 | mg/L | 1 | 12.5 | <0.0598 | 100 | 90 - 110 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Bromide | 2.44 | mg/L | 1 | 2.50 | <0.0217 | 98 | 90 - 110 | 0 | 20 |
| Chloride | 12.0 | mg/L | 1 | 12.5 | <0.0257 | 96 | 90 - 110 | 0 | 20 |
| Fluoride | 2.47 | mg/L | 1 | 2.50 | <0.0168 | 99 | 88.6 - 107 | 0 | 20 |
| Sulfate | 12.4 | mg/L | 1 | 12.5 | <0.0598 | 99 | 90 - 110 | 1 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**

QC Batch: 33916 | Date Analyzed: 2007-01-23 | Analyzed By: TP
Prep Batch: 29246 | QC Preparation: 2007-01-16 | Prepared By: TS

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Total Sodium | 51.9 | mg/L | 1 | 50.0 | <0.0309 | 104 | 87.3 - 124 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Total Sodium | 51.1 | mg/L | 1 | 50.0 | <0.0309 | 102 | 87.3 - 124 | 2 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**

QC Batch: 33924 | Date Analyzed: 2007-01-24 | Analyzed By: RR
Prep Batch: 29246 | QC Preparation: 2007-01-16 | Prepared By: TS

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Total Silver | 0.124 | mg/L | 1 | 0.125 | <0.000274 | 99 | 87.9 - 111 |
| Total Cadmium | 0.252 | mg/L | 1 | 0.250 | <0.000268 | 101 | 86.8 - 110 |
| Total Chromium | 0.106 | mg/L | 1 | 0.100 | <0.00357 | 106 | 86.5 - 115 |
| Total Copper | 0.129 | mg/L | 1 | 0.125 | <0.00127 | 103 | 83.4 - 117 |
| Total Phosphorous | 0.525 | mg/L | 1 | 0.500 | <0.0229 | 105 | 87.3 - 114 |
| Total Lead | 0.516 | mg/L | 1 | 0.500 | <0.00310 | 103 | 83 - 109 |
| Total Zinc | 0.242 | mg/L | 1 | 0.250 | <0.000666 | 97 | 82.9 - 109 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Total Silver | 0.122 | mg/L | 1 | 0.125 | <0.000274 | 98 | 87.9 - 111 | 2 | 20 |
| Total Cadmium | 0.249 | mg/L | 1 | 0.250 | <0.000268 | 100 | 86.8 - 110 | 1 | 20 |
| Total Chromium | 0.110 | mg/L | 1 | 0.100 | <0.00357 | 110 | 86.5 - 115 | 4 | 20 |
| Total Copper | 0.131 | mg/L | 1 | 0.125 | <0.00127 | 105 | 83.4 - 117 | 2 | 20 |
| Total Phosphorous | 0.517 | mg/L | 1 | 0.500 | <0.0229 | 103 | 87.3 - 114 | 2 | 20 |
| Total Lead | 0.510 | mg/L | 1 | 0.500 | <0.00310 | 102 | 83 - 109 | 1 | 20 |
| Total Zinc | 0.242 | mg/L | 1 | 0.250 | <0.000666 | 97 | 82.9 - 109 | 0 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**

QC Batch: 33961 Date Analyzed: 2007-01-24 Analyzed By: JS
Prep Batch: 29492 QC Preparation: 2007-01-24 Prepared By: JS

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Nitrate and Nitrite as N | 0.157 | mg/L | 1 | 0.160 | <0.0223 | 98 | 77 - 122 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Nitrate and Nitrite as N | 0.168 | mg/L | 1 | 0.160 | <0.0223 | 105 | 77 - 122 | 7 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**

QC Batch: 33986 Date Analyzed: 2007-01-25 Analyzed By: RR
Prep Batch: 29250 QC Preparation: 2007-01-16 Prepared By: TS

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Dissolved Silver | 0.121 | mg/L | 1 | 0.125 | <0.000199 | 97 | 86.2 - 116 |
| Dissolved Cadmium | 0.234 | mg/L | 1 | 0.250 | <0.000577 | 94 | 83.3 - 113 |
| Dissolved Chromium | 0.102 | mg/L | 1 | 0.100 | <0.00357 | 102 | 83 - 112 |
| Dissolved Copper | 0.124 | mg/L | 1 | 0.125 | <0.00127 | 99 | 84.3 - 114 |
| Dissolved Lead | 0.494 | mg/L | 1 | 0.500 | <0.00398 | 99 | 81.1 - 111 |
| Dissolved Zinc | 0.228 | mg/L | 1 | 0.250 | <0.00300 | 91 | 84.7 - 113 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Dissolved Silver | 0.122 | mg/L | 1 | 0.125 | <0.000199 | 98 | 86.2 - 116 | 1 | 20 |
| Dissolved Cadmium | 0.231 | mg/L | 1 | 0.250 | <0.000577 | 92 | 83.3 - 113 | 1 | 20 |
| Dissolved Chromium | 0.0980 | mg/L | 1 | 0.100 | <0.00357 | 98 | 83 - 112 | 4 | 20 |
| Dissolved Copper | 0.132 | mg/L | 1 | 0.125 | <0.00127 | 106 | 84.3 - 114 | 6 | 20 |
| Dissolved Lead | 0.482 | mg/L | 1 | 0.500 | <0.00398 | 96 | 81.1 - 111 | 2 | 20 |
| Dissolved Zinc | 0.233 | mg/L | 1 | 0.250 | <0.00300 | 93 | 84.7 - 113 | 2 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**

QC Batch: 34065 Date Analyzed: 2007-01-28 Analyzed By: KV
Prep Batch: 29563 QC Preparation: 2007-01-28 Prepared By: KV

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Total Organic Carbon | 4.59 | mg/L | 1 | 5.00 | <0.382 | 92 | 70 - 130 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon | 4.32 | mg/L | 1 | 5.00 | <0.382 | 86 | 70 - 130 | 6 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 113421

QC Batch: 33608 Date Analyzed: 2007-01-12 Analyzed By: KB
Prep Batch: 29202 QC Preparation: 2007-01-12 Prepared By: KB

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| GRO | 0.708 | mg/L | 1 | 1.00 | <0.0288 | 71 | 53.5 - 132 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| GRO | 0.860 | mg/L | 1 | 1.00 | <0.0288 | 86 | 53.5 - 132 | 19 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|---|---|
| Trifluorotoluene (TFT) | [3] | 0.0732 | 0.0962 | mg/L | 1 | 0.1 | 73 | 96 | 75.6 - 108 |
| 4-Bromofluorobenzene (4-BFB) | [4] | 0.0728 | 0.0999 | mg/L | 1 | 0.1 | 73 | 100 | 78.9 - 109 |

[3]Surrogate recovery out of control on MS/MSD due to matrix interference. LCS/LCSD show method to be in control.
[4]Surrogate recovery out of control on MS/MSD due to matrix interference. LCS/LCSD show method to be in control.

**Matrix Spike (MS-1)** Spiked Sample: 113763

QC Batch: 33676 | Date Analyzed: 2007-01-16 | Analyzed By: SP
Prep Batch: 29255 | QC Preparation: 2007-01-16 | Prepared By: SP

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| DRO | 24.0 | mg/L | 1 | 25.0 | <1.19 | 96 | 77.8 - 112 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| DRO | 23.7 | mg/L | 1 | 25.0 | <1.19 | 95 | 77.8 - 112 | 1 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|---|
| n-Triacontane | 16.7 | 16.7 | mg/L | 1 | 15 | 111 | 111 | 57 - 132.3 |

**Matrix Spike (MS-1)** Spiked Sample: 114014

QC Batch: 33857 | Date Analyzed: 2007-01-22 | Analyzed By: SM
Prep Batch: 29393 | QC Preparation: 2007-01-22 | Prepared By: SM

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Ammonia-N | 4.65 | mg/L | 1 | 5.00 | <0.820 | 93 | 55.4 - 124 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Ammonia-N | 4.59 | mg/L | 1 | 5.00 | <0.820 | 92 | 55.4 - 124 | 1 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 113759

QC Batch: 33876 | Date Analyzed: 2007-01-19 | Analyzed By: JG
Prep Batch: 29424 | QC Preparation: 2007-01-19 | Prepared By: JG

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 53.2 | µg/L | 1 | 50.0 | <0.0736 | 106 | 78.7 - 119 |
| Benzene | 56.3 | µg/L | 1 | 50.0 | <0.0495 | 113 | 75.8 - 125 |
| Trichloroethene (TCE) | 51.4 | µg/L | 1 | 50.0 | <0.0495 | 103 | 83.6 - 112 |
| Toluene | 51.9 | µg/L | 1 | 50.0 | <0.0736 | 104 | 81.6 - 115 |
| Chlorobenzene | 52.6 | µg/L | 1 | 50.0 | <0.0217 | 105 | 83.9 - 113 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 52.0 | µg/L | 1 | 50.0 | <0.0736 | 104 | 78.7 - 119 | 2 | 20 |
| Benzene | 54.3 | µg/L | 1 | 50.0 | <0.0495 | 109 | 75.8 - 125 | 4 | 20 |
| Trichloroethene (TCE) | 49.8 | µg/L | 1 | 50.0 | <0.0495 | 100 | 83.6 - 112 | 3 | 20 |
| Toluene | 50.1 | µg/L | 1 | 50.0 | <0.0736 | 100 | 81.6 - 115 | 4 | 20 |
| Chlorobenzene | 50.8 | µg/L | 1 | 50.0 | <0.0217 | 102 | 83.9 - 113 | 4 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|---|
| Dibromofluoromethane | 52.8 | 52.4 | µg/L | 1 | 50 | 106 | 105 | 86.6 - 114 |
| Toluene-d8 | 50.5 | 50.2 | µg/L | 1 | 50 | 101 | 100 | 91 - 109 |
| 4-Bromofluorobenzene (4-BFB) | 49.9 | 48.9 | µg/L | 1 | 50 | 100 | 98 | 87.2 - 113 |

**Matrix Spike (MS-1)** Spiked Sample: 113753

QC Batch: 33909 | Date Analyzed: 2007-01-22 | Analyzed By: TP
Prep Batch: 29250 | QC Preparation: 2007-01-16 | Prepared By: TS

| Param | | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|---|
| Dissolved Sodium | [5] | 7600 | mg/L | 100 | 5000 | 6994 | 12 | 84.2 - 120 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| Dissolved Sodium | [6] | 7330 | mg/L | 100 | 5000 | 6994 | 7 | 84.2 - 120 | 4 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 113774

QC Batch: 33914 | Date Analyzed: 2007-01-16 | Analyzed By: JR
Prep Batch: 29454 | QC Preparation: 2007-01-16 | Prepared By: JR

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Bromide | 1230 | mg/L | 500 | 1250 | <10.8 | 98 | 90 - 110 |
| Chloride | 7580 | mg/L | 500 | 6250 | 1820 | 92 | 90 - 110 |
| Fluoride | 1240 | mg/L | 500 | 1250 | <8.40 | 99 | 89.9 - 104 |
| Sulfate | 12500 | mg/L | 500 | 6250 | 6560 | 95 | 90 - 110 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Bromide | 1220 | mg/L | 500 | 1250 | <10.8 | 98 | 90 - 110 | 1 | 20 |
| Chloride | 7570 | mg/L | 500 | 6250 | 1820 | 92 | 90 - 110 | 0 | 20 |
| Fluoride | 1240 | mg/L | 500 | 1250 | <8.40 | 99 | 89.9 - 104 | 0 | 20 |

*continued . . .*

[5]Matrix spike recoveries out of control limits due to matrix spike being diluted out. Use LCS/LCSD to demonstrate analysis is under control.
[6]Matrix spike recoveries out of control limits due to matrix spike being diluted out. Use LCS/LCSD to demonstrate analysis is under control.

*matrix spikes continued . . .*

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Sulfate | 12500 | mg/L | 500 | 6250 | 6560 | 95 | 90 - 110 | 0 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 113753

QC Batch: 33916 | Date Analyzed: 2007-01-23 | Analyzed By: TP
Prep Batch: 29246 | QC Preparation: 2007-01-16 | Prepared By: TS

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Total Sodium [7] | 7420 | mg/L | 100 | 5000 | 7470 | -1 | 75 - 125 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Total Sodium [8] | 7470 | mg/L | 100 | 5000 | 7470 | 0 | 75 - 125 | 1 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 113753

QC Batch: 33924 | Date Analyzed: 2007-01-24 | Analyzed By: RR
Prep Batch: 29246 | QC Preparation: 2007-01-16 | Prepared By: TS

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Total Silver | 0.115 | mg/L | 1 | 0.125 | <0.000274 | 92 | 88.2 - 114 |
| Total Cadmium | 0.190 | mg/L | 1 | 0.250 | 0.003 | 75 | 66.5 - 121 |
| Total Chromium | 0.0750 | mg/L | 1 | 0.100 | <0.00357 | 75 | 69.2 - 129 |
| Total Copper | 0.105 | mg/L | 1 | 0.125 | <0.00127 | 84 | 83.8 - 118 |
| Total Phosphorous | 0.443 | mg/L | 1 | 0.500 | <0.0229 | 89 | 70.1 - 115 |
| Total Lead | 0.418 | mg/L | 1 | 0.500 | <0.00310 | 84 | 71.9 - 115 |
| Total Zinc | 0.195 | mg/L | 1 | 0.250 | 0.005 | 76 | 75.5 - 113 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Total Silver | 0.117 | mg/L | 1 | 0.125 | <0.000274 | 94 | 88.2 - 114 | 2 | 20 |
| Total Cadmium | 0.176 | mg/L | 1 | 0.250 | 0.003 | 69 | 66.5 - 121 | 8 | 20 |
| Total Chromium | 0.0790 | mg/L | 1 | 0.100 | <0.00357 | 79 | 69.2 - 129 | 5 | 20 |
| Total Copper | 0.115 | mg/L | 1 | 0.125 | <0.00127 | 92 | 83.8 - 118 | 9 | 20 |
| Total Phosphorous | 0.441 | mg/L | 1 | 0.500 | <0.0229 | 88 | 70.1 - 115 | 0 | 20 |
| Total Lead | 0.425 | mg/L | 1 | 0.500 | <0.00310 | 85 | 71.9 - 115 | 2 | 20 |
| Total Zinc | 0.201 | mg/L | 1 | 0.250 | 0.005 | 78 | 75.5 - 113 | 3 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

[7]Matrix spike recoveries out of control limits due to matrix spike being diluted out. Use LCS/LCSD to demonstrate analysis is under control.
[8]Matrix spike recoveries out of control limits due to matrix spike being diluted out. Use LCS/LCSD to demonstrate analysis is under control.

**Matrix Spike (MS-2)** Spiked Sample: 113751

QC Batch: 33924 Date Analyzed: 2007-01-24 Analyzed By: RR
Prep Batch: 29246 QC Preparation: 2007-01-16 Prepared By: TS

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Total Silver | 0.118 | mg/L | 1 | 0.125 | <0.000274 | 94 | 88.2 - 114 |
| Total Cadmium | 0.203 | mg/L | 1 | 0.250 | <0.000268 | 81 | 66.5 - 121 |
| Total Chromium | 0.0920 | mg/L | 1 | 0.100 | <0.00357 | 92 | 69.2 - 129 |
| Total Copper | 0.118 | mg/L | 1 | 0.125 | <0.00127 | 94 | 83.8 - 118 |
| Total Phosphorous | 0.488 | mg/L | 1 | 0.500 | 0.025 | 93 | 70.1 - 115 |
| Total Lead | 0.491 | mg/L | 1 | 0.500 | <0.00310 | 98 | 71.9 - 115 |
| Total Zinc | 0.223 | mg/L | 1 | 0.250 | <0.000666 | 89 | 75.5 - 113 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Total Silver | 0.120 | mg/L | 1 | 0.125 | <0.000274 | 96 | 88.2 - 114 | 2 | 20 |
| Total Cadmium | 0.216 | mg/L | 1 | 0.250 | <0.000268 | 86 | 66.5 - 121 | 6 | 20 |
| Total Chromium | 0.0930 | mg/L | 1 | 0.100 | <0.00357 | 93 | 69.2 - 129 | 1 | 20 |
| Total Copper | 0.121 | mg/L | 1 | 0.125 | <0.00127 | 97 | 83.8 - 118 | 2 | 20 |
| Total Phosphorous | 0.503 | mg/L | 1 | 0.500 | 0.025 | 96 | 70.1 - 115 | 3 | 20 |
| Total Lead | 0.497 | mg/L | 1 | 0.500 | <0.00310 | 99 | 71.9 - 115 | 1 | 20 |
| Total Zinc | 0.231 | mg/L | 1 | 0.250 | <0.000666 | 92 | 75.5 - 113 | 4 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 113774

QC Batch: 33961 Date Analyzed: 2007-01-24 Analyzed By: JS
Prep Batch: 29492 QC Preparation: 2007-01-24 Prepared By: JS

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Nitrate and Nitrite as N [9] | 44.7 | mg/L | 200 | 32.0 | 44.5 | 1 | 10 - 208 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Nitrate and Nitrite as N [10] | 39.5 | mg/L | 200 | 32.0 | 44.5 | -14 | 10 - 208 | 12 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 113753

QC Batch: 33986 Date Analyzed: 2007-01-25 Analyzed By: RR
Prep Batch: 29250 QC Preparation: 2007-01-16 Prepared By: TS

[9]Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.
[10]Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Dissolved Silver | 0.116 | mg/L | 1 | 0.125 | <0.000199 | 93 | 90.1 - 120 |
| Dissolved Cadmium | 0.233 | mg/L | 1 | 0.250 | <0.000577 | 93 | 75 - 112 |
| Dissolved Chromium | 0.0860 | mg/L | 1 | 0.100 | <0.00357 | 86 | 75 - 121 |
| Dissolved Copper | 0.115 | mg/L | 1 | 0.125 | <0.00127 | 92 | 81.5 - 125 |
| Dissolved Lead | 0.484 | mg/L | 1 | 0.500 | <0.00398 | 97 | 75 - 111 |
| Dissolved Zinc | 0.239 | mg/L | 1 | 0.250 | <0.00300 | 96 | 80.4 - 120 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Dissolved Silver | 0.116 | mg/L | 1 | 0.125 | <0.000199 | 93 | 90.1 - 120 | 0 | 20 |
| Dissolved Cadmium | 0.234 | mg/L | 1 | 0.250 | <0.000577 | 94 | 75 - 112 | 0 | 20 |
| Dissolved Chromium | 0.0860 | mg/L | 1 | 0.100 | <0.00357 | 86 | 75 - 121 | 0 | 20 |
| Dissolved Copper | 0.118 | mg/L | 1 | 0.125 | <0.00127 | 94 | 81.5 - 125 | 3 | 20 |
| Dissolved Lead | 0.495 | mg/L | 1 | 0.500 | <0.00398 | 99 | 75 - 111 | 2 | 20 |
| Dissolved Zinc | 0.241 | mg/L | 1 | 0.250 | <0.00300 | 96 | 80.4 - 120 | 1 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-2)** Spiked Sample: 113751

QC Batch: 33986
Prep Batch: 29250
Date Analyzed: 2007-01-25
QC Preparation: 2007-01-16
Analyzed By: RR
Prepared By: TS

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Dissolved Silver | 0.115 | mg/L | 1 | 0.125 | <0.000199 | 92 | 90.1 - 120 |
| Dissolved Cadmium | 0.224 | mg/L | 1 | 0.250 | <0.000577 | 90 | 75 - 112 |
| Dissolved Chromium | 0.0910 | mg/L | 1 | 0.100 | <0.00357 | 91 | 75 - 121 |
| Dissolved Copper | 0.117 | mg/L | 1 | 0.125 | <0.00127 | 94 | 81.5 - 125 |
| Dissolved Lead | 0.456 | mg/L | 1 | 0.500 | <0.00398 | 91 | 75 - 111 |
| Dissolved Zinc | 0.234 | mg/L | 1 | 0.250 | <0.00300 | 94 | 80.4 - 120 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Dissolved Silver | 0.115 | mg/L | 1 | 0.125 | <0.000199 | 92 | 90.1 - 120 | 0 | 20 |
| Dissolved Cadmium | 0.225 | mg/L | 1 | 0.250 | <0.000577 | 90 | 75 - 112 | 0 | 20 |
| Dissolved Chromium | 0.0890 | mg/L | 1 | 0.100 | <0.00357 | 89 | 75 - 121 | 2 | 20 |
| Dissolved Copper | 0.117 | mg/L | 1 | 0.125 | <0.00127 | 94 | 81.5 - 125 | 0 | 20 |
| Dissolved Lead | 0.451 | mg/L | 1 | 0.500 | <0.00398 | 90 | 75 - 111 | 1 | 20 |
| Dissolved Zinc | 0.227 | mg/L | 1 | 0.250 | <0.00300 | 91 | 80.4 - 120 | 3 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 113772

QC Batch: 34065
Prep Batch: 29563
Date Analyzed: 2007-01-28
QC Preparation: 2007-01-28
Analyzed By: KV
Prepared By: KV

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Total Organic Carbon | 5.06 | mg/L | 1 | 5.00 | <0.382 | 101 | 70 - 130 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon | 5.18 | mg/L | 1 | 5.00 | <0.382 | 104 | 70 - 130 | 2 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Standard (ICV-1)**

QC Batch: 33608 Date Analyzed: 2007-01-12 Analyzed By: KB

| Param | Flag | Units | ICVs True Conc. | ICVs Found Conc. | ICVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| GRO | | mg/L | 1.00 | 0.968 | 97 | 85 - 115 | 2007-01-12 |

**Standard (CCV-1)**

QC Batch: 33608 Date Analyzed: 2007-01-12 Analyzed By: KB

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| GRO | | mg/L | 1.00 | 0.917 | 92 | 85 - 115 | 2007-01-12 |

**Standard (ICV-1)**

QC Batch: 33615 Date Analyzed: 2007-01-12 Analyzed By: DR

| Param | Flag | Units | ICVs True Conc. | ICVs Found Conc. | ICVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Specific Conductance | | µMHOS/cm | 1410 | 1410 | 100 | 96.7 - 108 | 2007-01-12 |

**Standard (CCV-1)**

QC Batch: 33615 Date Analyzed: 2007-01-12 Analyzed By: DR

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Specific Conductance | | µMHOS/cm | 1410 | 1410 | 100 | 96.7 - 108 | 2007-01-12 |

**Standard (CCV-1)**

QC Batch: 33661 Date Analyzed: 2007-01-15 Analyzed By: DS

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Phenol | | mg/L | 60.0 | 60.1 | 100 | 80 - 120 | 2007-01-15 |
| 1,4-Dichlorobenzene (para) | | mg/L | 60.0 | 61.2 | 102 | 80 - 120 | 2007-01-15 |
| 2-Nitrophenol | | mg/L | 60.0 | 48.8 | 81 | 80 - 120 | 2007-01-15 |
| 2,4-Dichlorophenol | | mg/L | 60.0 | 55.0 | 92 | 80 - 120 | 2007-01-15 |
| Hexachlorobutadiene | | mg/L | 60.0 | 64.8 | 108 | 80 - 120 | 2007-01-15 |
| 4-Chloro-3-methylphenol | | mg/L | 60.0 | 52.6 | 88 | 80 - 120 | 2007-01-15 |
| 2,4,6-Trichlorophenol | | mg/L | 60.0 | 56.6 | 94 | 80 - 120 | 2007-01-15 |
| Acenaphthene | | mg/L | 60.0 | 59.4 | 99 | 80 - 120 | 2007-01-15 |
| Diphenylamine | | mg/L | 60.0 | 57.5 | 96 | 80 - 120 | 2007-01-15 |
| Pentachlorophenol | | mg/L | 60.0 | 48.8 | 81 | 80 - 120 | 2007-01-15 |
| Fluoranthene | | mg/L | 60.0 | 65.2 | 109 | 80 - 120 | 2007-01-15 |
| Di-n-octylphthalate | | mg/L | 60.0 | 55.9 | 93 | 80 - 120 | 2007-01-15 |
| Benzo(a)pyrene | | mg/L | 60.0 | 63.1 | 105 | 80 - 120 | 2007-01-15 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limit |
|---|---|---|---|---|---|---|---|
| 2-Fluorophenol | | 61.6 | mg/L | 1 | 60.0 | 103 | 80 - 120 |
| Phenol-d5 | | 59.8 | mg/L | 1 | 60.0 | 100 | 80 - 120 |
| Nitrobenzene-d5 | | 66.7 | mg/L | 1 | 60.0 | 111 | 80 - 120 |
| 2-Fluorobiphenyl | | 69.6 | mg/L | 1 | 60.0 | 116 | 80 - 120 |
| 2,4,6-Tribromophenol | | 48.2 | mg/L | 1 | 60.0 | 80 | 80 - 120 |
| Terphenyl-d14 | | 65.6 | mg/L | 1 | 60.0 | 109 | 80 - 120 |

**Standard (ICV-1)**

QC Batch: 33676 Date Analyzed: 2007-01-16 Analyzed By: SP

| Param | Flag | Units | ICVs True Conc. | ICVs Found Conc. | ICVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| DRO | | mg/L | 250 | 271 | 108 | 85 - 115 | 2007-01-16 |

**Standard (CCV-1)**

QC Batch: 33676 Date Analyzed: 2007-01-16 Analyzed By: SP

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| DRO | | mg/L | 250 | 270 | 108 | 85 - 115 | 2007-01-16 |

**Standard (ICV-1)**

QC Batch: 33698 Date Analyzed: 2007-01-12 Analyzed By: DR

| Param | Flag | Units | ICVs True Conc. | ICVs Found Conc. | ICVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| pH | | s.u. | 7.00 | 6.97 | 100 | 98.8 - 101 | 2007-01-12 |

**Standard (CCV-1)**

QC Batch: 33698 Date Analyzed: 2007-01-12 Analyzed By: DR

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| pH | | s.u. | 7.00 | 7.00 | 100 | 98.8 - 101 | 2007-01-12 |

**Standard (ICV-1)**

QC Batch: 33818 Date Analyzed: 2007-01-17 Analyzed By: JG

| Param | Flag | Units | ICVs True Conc. | ICVs Found Conc. | ICVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Total Dissolved Solids | | mg/L | 1000 | 983 | 98 | 94.4 - 106 | 2007-01-17 |

**Standard (CCV-1)**

QC Batch: 33818 Date Analyzed: 2007-01-17 Analyzed By: JG

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Total Dissolved Solids | | mg/L | 1000 | 981 | 98 | 94.4 - 106 | 2007-01-17 |

**Standard (ICV-1)**

QC Batch: 33857 Date Analyzed: 2007-01-22 Analyzed By: SM

| Param | Flag | Units | ICVs True Conc. | ICVs Found Conc. | ICVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Ammonia-N | | mg/L | 5.00 | 4.98 | 100 | 85 - 115 | 2007-01-22 |

**Standard (CCV-1)**

QC Batch: 33857 Date Analyzed: 2007-01-22 Analyzed By: SM

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Ammonia-N | | mg/L | 5.00 | 4.82 | 96 | 85 - 115 | 2007-01-22 |

**Standard (CCV-1)**

QC Batch: 33876 Date Analyzed: 2007-01-19 Analyzed By: JG

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Vinyl Chloride | | µg/L | 50.0 | 54.7 | 109 | 80 - 120 | 2007-01-19 |
| 1,1-Dichloroethene | | µg/L | 50.0 | 51.4 | 103 | 80 - 120 | 2007-01-19 |
| Chloroform | | µg/L | 50.0 | 49.5 | 99 | 80 - 120 | 2007-01-19 |
| 1,2-Dichloropropane | | µg/L | 50.0 | 50.3 | 101 | 80 - 120 | 2007-01-19 |
| Toluene | | µg/L | 50.0 | 47.0 | 94 | 80 - 120 | 2007-01-19 |
| Chlorobenzene | | µg/L | 50.0 | 49.1 | 98 | 80 - 120 | 2007-01-19 |
| Ethylbenzene | | µg/L | 50.0 | 50.6 | 101 | 80 - 120 | 2007-01-19 |

**Standard (CCV-2)**

QC Batch: 33876 Date Analyzed: 2007-01-19 Analyzed By: JG

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Vinyl Chloride | | µg/L | 50.0 | 60.1 | 120 | 80 - 120 | 2007-01-19 |
| 1,1-Dichloroethene | | µg/L | 50.0 | 53.9 | 108 | 80 - 120 | 2007-01-19 |
| Chloroform | | µg/L | 50.0 | 54.7 | 109 | 80 - 120 | 2007-01-19 |
| 1,2-Dichloropropane | | µg/L | 50.0 | 54.5 | 109 | 80 - 120 | 2007-01-19 |
| Toluene | | µg/L | 50.0 | 50.2 | 100 | 80 - 120 | 2007-01-19 |
| Chlorobenzene | | µg/L | 50.0 | 51.4 | 103 | 80 - 120 | 2007-01-19 |
| Ethylbenzene | | µg/L | 50.0 | 54.6 | 109 | 80 - 120 | 2007-01-19 |

**Standard (ICV-1)**

QC Batch: 33909 Date Analyzed: 2007-01-22 Analyzed By: TP

| Param | Flag | Units | ICVs True Conc. | ICVs Found Conc. | ICVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Dissolved Sodium | | mg/L | 50.0 | 50.7 | 101 | 90 - 110 | 2007-01-22 |

**Standard (CCV-1)**

QC Batch: 33909 Date Analyzed: 2007-01-22 Analyzed By: TP

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Dissolved Sodium | | mg/L | 50.0 | 50.4 | 101 | 90 - 110 | 2007-01-22 |

**Standard (ICV-1)**

QC Batch: 33914 Date Analyzed: 2007-01-16 Analyzed By: JR

| Param | Flag | Units | ICVs True Conc. | ICVs Found Conc. | ICVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Bromide | | mg/L | 2.50 | 2.44 | 98 | 93.2 - 98.5 | 2007-01-16 |
| Chloride | | mg/L | 12.5 | 11.8 | 94 | 90 - 110 | 2007-01-16 |
| Fluoride | | mg/L | 2.50 | 2.43 | 97 | 90 - 110 | 2007-01-16 |
| Sulfate | | mg/L | 12.5 | 11.8 | 94 | 90 - 110 | 2007-01-16 |

**Standard (CCV-1)**

QC Batch: 33914 Date Analyzed: 2007-01-16 Analyzed By: JR

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Bromide | | mg/L | 2.50 | 2.44 | 98 | 93.2 - 98.5 | 2007-01-16 |
| Chloride | | mg/L | 12.5 | 11.9 | 95 | 90 - 110 | 2007-01-16 |
| Fluoride | | mg/L | 2.50 | 2.44 | 98 | 90 - 110 | 2007-01-16 |
| Sulfate | | mg/L | 12.5 | 11.8 | 94 | 90 - 110 | 2007-01-16 |

**Standard (ICV-1)**

QC Batch: 33916 Date Analyzed: 2007-01-23 Analyzed By: TP

| Param | Flag | Units | ICVs True Conc. | ICVs Found Conc. | ICVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Total Sodium | | mg/L | 50.0 | 50.1 | 100 | 90 - 110 | 2007-01-23 |

**Standard (CCV-1)**

QC Batch: 33916 Date Analyzed: 2007-01-23 Analyzed By: TP

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Total Sodium | | mg/L | 50.0 | 51.9 | 104 | 90 - 110 | 2007-01-23 |

**Standard (ICV-1)**

QC Batch: 33924 Date Analyzed: 2007-01-24 Analyzed By: RR

| Param | Flag | Units | ICVs True Conc. | ICVs Found Conc. | ICVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Total Silver | | mg/L | 0.125 | 0.123 | 98 | 90 - 110 | 2007-01-24 |
| Total Cadmium | | mg/L | 1.00 | 0.962 | 96 | 90 - 110 | 2007-01-24 |
| Total Chromium | | mg/L | 1.00 | 0.966 | 97 | 90 - 110 | 2007-01-24 |
| Total Copper | | mg/L | 1.00 | 0.963 | 96 | 90 - 110 | 2007-01-24 |
| Total Phosphorous | | mg/L | 5.00 | 4.81 | 96 | 90 - 110 | 2007-01-24 |
| Total Lead | | mg/L | 1.00 | 0.984 | 98 | 90 - 110 | 2007-01-24 |

*continued . . .*

*standard continued . . .*

| Param | Flag | Units | ICVs True Conc. | ICVs Found Conc. | ICVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Total Zinc | | mg/L | 1.00 | 1.02 | 102 | 90 - 110 | 2007-01-24 |

**Standard (CCV-1)**

QC Batch: 33924 Date Analyzed: 2007-01-24 Analyzed By: RR

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Total Silver | | mg/L | 0.125 | 0.136 | 109 | 90 - 110 | 2007-01-24 |
| Total Cadmium | | mg/L | 1.00 | 1.07 | 107 | 90 - 110 | 2007-01-24 |
| Total Chromium | | mg/L | 1.00 | 1.06 | 106 | 90 - 110 | 2007-01-24 |
| Total Copper | | mg/L | 1.00 | 1.06 | 106 | 90 - 110 | 2007-01-24 |
| Total Phosphorous | | mg/L | 5.00 | 5.48 | 110 | 90 - 110 | 2007-01-24 |
| Total Lead | | mg/L | 1.00 | 1.06 | 106 | 90 - 110 | 2007-01-24 |
| Total Zinc | | mg/L | 1.00 | 1.04 | 104 | 90 - 110 | 2007-01-24 |

**Standard (ICV-1)**

QC Batch: 33961 Date Analyzed: 2007-01-24 Analyzed By: JS

| Param | Flag | Units | ICVs True Conc. | ICVs Found Conc. | ICVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Nitrate and Nitrite as N | | mg/L | 0.160 | 0.172 | 108 | 85 - 115 | 2007-01-24 |

**Standard (CCV-1)**

QC Batch: 33961 Date Analyzed: 2007-01-24 Analyzed By: JS

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Nitrate and Nitrite as N | | mg/L | 0.160 | 0.153 | 96 | 85 - 115 | 2007-01-24 |

**Standard (ICV-1)**

QC Batch: 33986 Date Analyzed: 2007-01-25 Analyzed By: RR

| Param | Flag | Units | ICVs True Conc. | ICVs Found Conc. | ICVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Dissolved Silver | | mg/L | 0.125 | 0.125 | 100 | 90 - 110 | 2007-01-25 |
| Dissolved Cadmium | | mg/L | 1.00 | 0.966 | 97 | 95 - 105 | 2007-01-25 |
| Dissolved Chromium | | mg/L | 1.00 | 0.956 | 96 | 90 - 110 | 2007-01-25 |
| Dissolved Copper | | mg/L | 1.00 | 0.976 | 98 | 90 - 110 | 2007-01-25 |
| Dissolved Lead | | mg/L | 1.00 | 0.950 | 95 | 90 - 110 | 2007-01-25 |

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*standard continued . . .*

| Param | Flag | Units | ICVs True Conc. | ICVs Found Conc. | ICVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Dissolved Zinc | | mg/L | 1.00 | 1.02 | 102 | 90 - 110 | 2007-01-25 |

**Standard (CCV-1)**

QC Batch: 33986 Date Analyzed: 2007-01-25 Analyzed By: RR

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Dissolved Silver | | mg/L | 0.125 | 0.126 | 101 | 90 - 110 | 2007-01-25 |
| Dissolved Cadmium | | mg/L | 1.00 | 1.04 | 104 | 90 - 110 | 2007-01-25 |
| Dissolved Chromium | | mg/L | 1.00 | 1.05 | 105 | 90 - 110 | 2007-01-25 |
| Dissolved Copper | | mg/L | 1.00 | 1.06 | 106 | 90 - 110 | 2007-01-25 |
| Dissolved Lead | | mg/L | 1.00 | 1.04 | 104 | 90 - 110 | 2007-01-25 |
| Dissolved Zinc | | mg/L | 1.00 | 1.08 | 108 | 90 - 110 | 2007-01-25 |

**Standard (ICV-1)**

QC Batch: 34056 Date Analyzed: 2007-01-24 Analyzed By: JG

| Param | Flag | Units | ICVs True Conc. | ICVs Found Conc. | ICVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Hydroxide Alkalinity | | mg/L as CaCo3 | 0.00 | <1.00 | | 0 - 105 | 2007-01-24 |
| Carbonate Alkalinity | | mg/L as CaCo3 | 0.00 | 240 | | 0 - 105 | 2007-01-24 |
| Bicarbonate Alkalinity | | mg/L as CaCo3 | 0.00 | 8.00 | | 0 - 105 | 2007-01-24 |
| Total Alkalinity | | mg/L as CaCo3 | 250 | 248 | 99 | 93.7 - 99.9 | 2007-01-24 |

**Standard (CCV-1)**

QC Batch: 34056 Date Analyzed: 2007-01-24 Analyzed By: JG

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Hydroxide Alkalinity | | mg/L as CaCo3 | 0.00 | <1.00 | | 0 - 105 | 2007-01-24 |
| Carbonate Alkalinity | | mg/L as CaCo3 | 0.00 | 236 | | 0 - 105 | 2007-01-24 |
| Bicarbonate Alkalinity | | mg/L as CaCo3 | 0.00 | 12.0 | | 0 - 105 | 2007-01-24 |
| Total Alkalinity | | mg/L as CaCo3 | 250 | 248 | 99 | 93.7 - 99.9 | 2007-01-24 |

**Standard (ICV-1)**

QC Batch: 34065 Date Analyzed: 2007-01-28 Analyzed By: KV

| Param | Flag | Units | ICVs True Conc. | ICVs Found Conc. | ICVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Total Organic Carbon | | mg/L | 5.00 | 4.69 | 94 | 80 - 120 | 2007-01-28 |

**Standard (CCV-1)**

QC Batch: 34065 Date Analyzed: 2007-01-28 Analyzed By: KV

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Total Organic Carbon | | mg/L | 5.00 | 5.08 | 102 | 80 - 120 | 2007-01-28 |