# APPENDIX I
# LABORATORY ANALYTICAL RESULTS

**THIS PAGE INTENTIONALLY LEFT BLANK.**

## Load Line 4 Appendix I

**Table I-1. Surface Soil Inorganics**

| Location | Perimeter Area Aggregate | Perimeter Area Aggregate | Perimeter Area Aggregate | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate |
|---|---|---|---|---|---|
| **Station** | **LL4-068** | **LL4-069** | **LL4-070** | **LL4-071** | **LL4-072** |
| **Sample ID** | **LL40680** | **LL40683** | **LL40686** | **LL40689** | **LL40692** |
| **Customer ID** | **LL4ss-068-0680-SO** | **LL4ss-069-0683-SO** | **LL4ss-070-0686-SO** | **LL4ss-071-0689-SO** | **LL4ss-072-0692-SO** |
| **Date** | **08/21/2001** | **08/21/2001** | **08/21/2001** | **08/21/2001** | **08/21/2001** |
| **Depth (ft)** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** |
| **Field Type** | **Grab** | **Grab** | **Grab** | **Grab** | **Grab** |
| **Analyte (mg/kg)** | | | | | |
| Aluminum | 11200 = | 10700 = | 8460 = | 6110 = | 13700 = |
| Antimony | 1.1 R | 1.1 R | 1.2 R | 1.1 UJ | 1.3 R |
| Arsenic | 10.7 = | 9.1 = | 8.2 = | 6.4 = | 8.1 = |
| Barium | 52.3 = | 54.7 = | 57.4 = | 377 J * | 73.8 = |
| Beryllium | 0.51 U | 0.49 U | 0.45 U | 0.87 = | 0.72 U |
| Cadmium | 0.22 J * | 0.27 J * | 0.28 J * | 13.2 = * | 0.16 J * |
| Calcium | 1450 = | 1060 = | 1220 = | 19100 = * | 2950 = |
| Chromium | 35.2 = * | 51.6 = * | 120 = * | 26.1 J * | 15.1 = |
| Chromium, hexavalent | | | | | |
| Cobalt | 8.4 = | 7.8 = | 8.6 = | 4.3 J | 6.8 = |
| Copper | 16.2 = | 12.8 = | 11.4 = | 42.4 = * | 16.5 = |
| Cyanide | | 0.57 U | 0.58 U | | |
| Iron | 19700 = | 18300 = | 16900 = | 30000 J * | 20800 = |
| Lead | 599 = * | 414 = * | 1340 = * | 618 = * | 15.2 = |
| Magnesium | 2330 = | 2160 = | 1920 = | 2990 = | 2510 = |
| Manganese | 242 J | 222 J | 433 J | 1270 J | 266 J |
| Mercury | 0.094 J * | 0.046 U | 0.066 U | 0.088 J * | 0.021 U |
| Nickel | 15.7 J | 14.5 J | 13.4 J | 21.6 J * | 16.6 J |
| Potassium | 724 = | 666 = | 666 = | 373 J | 1080 = * |
| Selenium | 1.1 J | 0.56 J | 1.1 J | 2.3 U | 0.96 J |
| Silver | 0.57 U | 0.57 U | 0.58 U | 0.57 U | 0.63 U |
| Sodium | 575 U | 573 U | 579 U | 568 U | 629 U |
| Thallium | 0.38 = * | 0.3 = * | 0.38 = * | 0.37 UJ | 0.42 = * |
| Vanadium | 17.8 = | 16.2 = | 13.9 = | 8.9 = | 18.1 = |
| Zinc | 120 = * | 86.4 = * | 116 = * | 402 = * | 56.3 = |

Table I-1. Surface Soil Inorganics (continued)

| Location | Perimeter Area Aggregate | Perimeter Area Aggregate | Perimeter Area Aggregate | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate |
|---|---|---|---|---|---|
| **Station** | **LL4-068** | **LL4-069** | **LL4-070** | **LL4-071** | **LL4-072** |
| **Sample ID** | **LL40680** | **LL40683** | **LL40686** | **LL40689** | **LL40692** |
| **Customer ID** | **LL4ss-068-0680-SO** | **LL4ss-069-0683-SO** | **LL4ss-070-0686-SO** | **LL4ss-071-0689-SO** | **LL4ss-072-0692-SO** |
| **Date** | **08/21/2001** | **08/21/2001** | **08/21/2001** | **08/21/2001** | **08/21/2001** |
| **Depth (ft)** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** |
| **Field Type** | **Grab** | **Grab** | **Grab** | **Grab** | **Grab** |
| **Analyte (mg/kg)** | | | | | |
| Aluminum | 11200 = | 10700 = | 8460 = | 6110 = | 13700 = |
| Antimony | 1.1 R | 1.1 R | 1.2 R | 1.1 UJ | 1.3 R |
| Arsenic | 10.7 = | 9.1 = | 8.2 = | 6.4 = | 8.1 = |
| Barium | 52.3 = | 54.7 = | 57.4 = | 377 J * | 73.8 = |
| Beryllium | 0.51 U | 0.49 U | 0.45 U | 0.87 = | 0.72 U |
| Cadmium | 0.22 J * | 0.27 J * | 0.28 J * | 13.2 = * | 0.16 J * |
| Calcium | 1450 = | 1060 = | 1220 = | 19100 = * | 2950 = |
| Chromium | 35.2 = * | 51.6 = * | 120 = * | 26.1 J * | 15.1 = |
| Chromium, hexavalent | | | | | |
| Cobalt | 8.4 = | 7.8 = | 8.6 = | 4.3 J | 6.8 = |
| Copper | 16.2 = | 12.8 = | 11.4 = | 42.4 = * | 16.5 = |
| Cyanide | | 0.57 U | 0.58 U | | |
| Iron | 19700 = | 18300 = | 16900 = | 30000 J * | 20800 = |
| Lead | 599 = * | 414 = * | 1340 = * | 618 = * | 15.2 = |
| Magnesium | 2330 = | 2160 = | 1920 = | 2990 = | 2510 = |
| Manganese | 242 J | 222 J | 433 J | 1270 J | 266 J |
| Mercury | 0.094 J * | 0.046 U | 0.066 U | 0.088 J * | 0.021 U |
| Nickel | 15.7 J | 14.5 J | 13.4 J | 21.6 J * | 16.6 J |
| Potassium | 724 = | 666 = | 666 = | 373 J | 1080 = * |
| Selenium | 1.1 J | 0.56 J | 1.1 J | 2.3 U | 0.96 J |
| Silver | 0.57 U | 0.57 U | 0.58 U | 0.57 U | 0.63 U |
| Sodium | 575 U | 573 U | 579 U | 568 U | 629 U |
| Thallium | 0.38 = * | 0.3 = * | 0.38 = * | 0.37 UJ | 0.42 = * |
| Vanadium | 17.8 = | 16.2 = | 13.9 = | 8.9 = | 18.1 = |
| Zinc | 120 = * | 86.4 = * | 116 = * | 402 = * | 56.3 = |

Table I-1. Surface Soil Inorganics (continued)

| Location | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate |
|---|---|---|---|---|---|
| **Station** | **LL4-073** | **LL4-074** | **LL4-074** | **LL4-075** | **LL4-076** |
| **Sample ID** | **LL40695** | **LL40698** | **LL41148** | **LL40701** | **LL40704** |
| **Customer ID** | **LL4ss-073-0695-SO** | **LL4ss-074-0698-SO** | **LL4ss-074-1148-SO** | **LL4ss-075-0701-SO** | **LL4ss-076-0704-SO** |
| **Date** | **08/21/2001** | **08/21/2001** | **08/21/2001** | **08/22/2001** | **08/22/2001** |
| **Depth (ft)** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** |
| **Field Type** | **Grab** | **Grab** | **Field Duplicate** | **Grab** | **Grab** |
| **Analyte (mg/kg)** | | | | | |
| Aluminum | 13000 = | 10800 = | 10400 = | 5690 = | 10800 = |
| Antimony | 1.3 UJ | 1.3 UJ | 1.3 UJ | 1.2 UJ | 1.1 UJ |
| Arsenic | 9.7 = | 7.4 = | 5.3 = | 6.4 = | 7.2 = |
| Barium | 72 = | 75.4 = | 67.4 = | 141 J * | 100 J * |
| Beryllium | 0.69 = | 0.54 U | 0.45 U | 0.73 U | 1.2 = * |
| Cadmium | 0.079 J * | 0.23 J * | 0.18 J * | 2.3 = * | 0.092 U |
| Calcium | 2480 = | 2800 = | 2300 = | 11300 = | 27300 = * |
| Chromium | 16.7 = | 13.7 = | 12.8 = | 20.8 J * | 9.7 J |
| Chromium, hexavalent | | | | | |
| Cobalt | 8.8 = | 7.2 = | 5.8 = | 6.2 J | 5.4 J |
| Copper | 25.9 = * | 14.3 = | 11.3 = | 23.1 = * | 11.3 = |
| Cyanide | 0.67 U | | | | 0.55 U |
| Iron | 22900 = | 19900 = | 17500 = | 25900 J * | 13000 J |
| Lead | 35.5 J * | 23.9 J | 18.2 J | 209 = * | 21.3 = |
| Magnesium | 2900 = | 2090 = | 1880 = | 2140 = | 4610 = * |
| Manganese | 242 = | 346 = | 323 = | 691 J | 622 J |
| Mercury | 0.047 J * | 0.039 J * | 0.041 J * | 0.36 = * | 0.042 J * |
| Nickel | 22.1 J * | 16.9 J | 14 J | 16 J | 10.6 J |
| Potassium | 1140 J * | 1110 J * | 1040 J * | 478 J | 788 J |
| Selenium | 2.7 U | 2.5 U | 2.5 U | 2.3 U | 2.2 U |
| Silver | 0.67 U | 0.63 U | 0.63 U | 0.58 U | 0.55 U |
| Sodium | 669 U | 628 U | 630 U | 581 U | 93.7 J |
| Thallium | 0.9 = * | 0.68 J * | 0.68 J * | 0.33 UJ | 0.41 UJ |
| Vanadium | 19.2 = | 16.2 = | 15.1 = | 9.6 = | 11.4 = |
| Zinc | 91.5 = * | 76.4 = * | 66.3 = * | 200 = * | 53.7 = |

Table I-1. Surface Soil Inorganics (continued)

| Location | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate |
|---|---|---|---|---|---|
| **Station** | **LL4-076** | **LL4-077** | **LL4-078** | **LL4-080** | **LL4-081** |
| **Sample ID** | **LL41138** | **LL40707** | **LL40710** | **LL40714** | **LL40717** |
| **Customer ID** | **LL4ss-076-1138-SO** | **LL4ss-077-0707-SO** | **LL4ss-078-0710-SO** | **LL4ss-080-0714-SO** | **LL4ss-081-0717-SO** |
| **Date** | **08/22/2001** | **08/22/2001** | **08/22/2001** | **08/22/2001** | **08/22/2001** |
| **Depth (ft)** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** |
| **Field Type** | **Field Duplicate** | **Grab** | **Grab** | **Grab** | **Grab** |
| **Analyte (mg/kg)** | | | | | |
| Aluminum | 10200 = | 6940 = | 10800 = | 37400 = * | 38800 = * |
| Antimony | 1.1 UJ | 1.1 UJ | 1.2 UJ | 1.2 UJ | 5.6 UJ |
| Arsenic | 8.6 = | 7.8 = | 10.8 = | 2.8 = | 3 J |
| Barium | 87.2 J | 44 J | 81.5 J | 416 J * | 752 J * |
| Beryllium | 0.95 = * | 0.47 U | 0.62 U | 4.5 = * | 5.9 = * |
| Cadmium | 0.082 U | 0.052 U | 0.27 J * | 1.6 = * | 0.53 J * |
| Calcium | 16700 = * | 10200 = | 7040 = | 180000 = * | 179000 = * |
| Chromium | 10.9 J | 11.2 J | 14.5 J | 25.5 J * | 19.5 J * |
| Chromium, hexavalent | | | | | |
| Cobalt | 7 J | 6.3 J | 9.2 J | 1.8 J | 2.9 J |
| Copper | 15.2 = | 15.3 = | 38.8 = * | 12.6 = | 9.1 = |
| Cyanide | 0.55 U | | | | |
| Iron | 16700 J | 14100 J | 20700 J | 11600 J | 6860 J |
| Lead | 24 = | 18.6 = | 33.2 = * | 107 = * | 67.2 = * |
| Magnesium | 3490 = * | 1840 = | 2510 = | 28000 = * | 29500 = * |
| Manganese | 680 J | 280 J | 554 J | 6730 J * | 7320 J * |
| Mercury | 0.042 J * | 0.11 U | 0.063 J * | 0.038 J * | 0.045 J * |
| Nickel | 13.3 J | 15.9 J | 14.9 J | 3.6 J | 3 J |
| Potassium | 845 = | 630 J | 1020 J * | 2300 J * | 2240 J * |
| Selenium | 2.2 U | 2.2 U | 1.1 J | 1.9 J * | 11.3 U |
| Silver | 0.55 U | 0.56 U | 0.62 U | 2.9 U | 2.8 U |
| Sodium | 59.2 J | 558 U | 624 U | 640 = * | 831 J * |
| Thallium | 0.4 UJ | 0.41 UJ | 0.49 UJ | 0.26 UJ | 0.32 UJ |
| Vanadium | 13.4 = | 11.7 = | 17.8 = | 10.3 = | 12.2 = |
| Zinc | 62.7 = * | 54.2 = | 79.3 = * | 129 = * | 97.5 = * |

Table I-1. Surface Soil Inorganics (continued)

| Location | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate | Preparation and Receiving Areas Aggregate | Preparation and Receiving Areas Aggregate | Preparation and Receiving Areas Aggregate |
|---|---|---|---|---|---|
| **Station** | **LL4-082** | **LL4-083** | **LL4-084** | **LL4-085** | **LL4-086** |
| **Sample ID** | **LL40720** | **LL40723** | **LL40726** | **LL40729** | **LL40732** |
| **Customer ID** | **LL4ss-082-0720-SO** | **LL4ss-083-0723-SO** | **LL4ss-084-0726-SO** | **LL4ss-085-0729-SO** | **LL4ss-086-0732-SO** |
| **Date** | **08/22/2001** | **08/22/2001** | **08/24/2001** | **08/23/2001** | **08/23/2001** |
| **Depth (ft)** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** |
| **Field Type** | **Grab** | **Grab** | **Grab** | **Grab** | **Grab** |
| **Analyte (mg/kg)** | | | | | |
| Aluminum | 22200 = * | 10500 J | 2280 J | 13100 J | 13900 J |
| Antimony | 1.2 UJ | 1.2 R | 1.1 R | 1.2 R | 1.2 R |
| Arsenic | 4.8 = | 9 J | 4.4 J | 10.9 J | 12.6 J |
| Barium | 252 J * | 45.1 J | 82.2 J | 105 J * | 41 J |
| Beryllium | 3.9 = * | 0.49 UJ | 0.39 UJ | 1 UJ | 0.58 UJ |
| Cadmium | 0.11 U | 0.082 J * | 0.73 J * | 0.12 J * | 0.62 UJ |
| Calcium | 129000 = * | 1590 J | 122000 J * | 8340 J | 2560 J |
| Chromium | 15.7 J | 10.7 J | 7 J | 14.4 J | 14.3 J |
| Chromium, hexavalent | | | | | |
| Cobalt | 1.9 J | 4.7 J | 3.6 J | 13.6 J * | 4.8 J |
| Copper | 5.9 = | 14.4 J | 9.5 J | 16.6 J | 17.8 J * |
| Cyanide | | | | | |
| Iron | 12400 J | 17000 = | 9380 = | 21200 = | 21900 = |
| Lead | 7.2 = | 16.9 J | 92.8 J * | 11.2 J | 13.2 J |
| Magnesium | 30700 = * | 1500 J | 1600 J | 3560 J * | 2020 J |
| Manganese | 2150 J * | 203 J | 341 J | 401 J | 102 J |
| Mercury | 0.12 U | 0.044 J * | 0.059 J * | 0.011 J | 0.033 J |
| Nickel | 4.7 J | 11.8 J | 14.2 J | 26 J * | 12.9 J |
| Potassium | 1440 J * | 536 J | 361 J | 1170 J * | 616 J |
| Selenium | 0.6 J | 0.51 J | 2.1 UJ | 2.4 UJ | 0.82 J |
| Silver | 0.61 U | 0.61 U | 0.54 U | 0.6 U | 0.62 U |
| Sodium | 728 = * | 605 UJ | 536 UJ | 598 UJ | 622 UJ |
| Thallium | 0.28 UJ | 0.47 J * | 0.41 J * | 0.69 J * | 0.8 J * |
| Vanadium | 5.5 = | 14.9 J | 6.5 J | 15.4 J | 21.2 J |
| Zinc | 19.5 = | 55.1 J | 183 J * | 85.1 J * | 45.7 J |

Table I-1. Surface Soil Inorganics (continued)

| Location | Preparation and Receiving Areas Aggregate | Preparation and Receiving Areas Aggregate | Preparation and Receiving Areas Aggregate | Preparation and Receiving Areas Aggregate | Preparation and Receiving Areas Aggregate |
|---|---|---|---|---|---|
| **Station** | **LL4-087** | **LL4-088** | **LL4-089** | **LL4-090** | **LL4-090** |
| **Sample ID** | **LL40735** | **LL40738** | **LL40741** | **LL40744** | **LL41139** |
| **Customer ID** | **LL4ss-087-0735-SO** | **LL4ss-088-0738-SO** | **LL4ss-089-0741-SO** | **LL4ss-090-0744-SO** | **LL4ss-090-1139-SO** |
| **Date** | **08/24/2001** | **08/22/2001** | **08/23/2001** | **08/23/2001** | **08/23/2001** |
| **Depth (ft)** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** |
| **Field Type** | **Grab** | **Grab** | **Grab** | **Grab** | **Field Duplicate** |
| **Analyte (mg/kg)** | | | | | |
| Aluminum | 7350 J | 8630 J | 8470 = | 6450 = | 6450 = |
| Antimony | 1.1 R | 1.2 R | 1.2 R | 1.1 UJ | 1.1 R |
| Arsenic | 13 J | 3.5 J | 4.8 = | 13.9 = | 15.1 = |
| Barium | 38.9 J | 141 J * | 126 = * | 29.6 = | 51.3 = |
| Beryllium | 0.53 UJ | 1.2 J * | 1.1 J * | 0.36 U | 0.37 U |
| Cadmium | 0.42 J * | 1.2 J * | 0.82 = * | 0.55 U | 0.77 = * |
| Calcium | 2470 J | 174000 J * | 150000 = * | 7770 = | 6390 = |
| Chromium | 10.1 J | 11.1 J | 6.9 = | 8 = | 8.6 = |
| Chromium, hexavalent | | | | | |
| Cobalt | 7.8 J | 3.1 J | 2.7 = | 7 = | 8.4 = |
| Copper | 20.3 J * | 9.4 J | 12.6 = | 21.6 = * | 32.7 = * |
| Cyanide | | | | | |
| Iron | 16400 = | 8490 = | 7540 = | 16800 = | 21100 = |
| Lead | 79.5 J * | 136 J * | 59.7 = * | 16.7 = | 19.4 = |
| Magnesium | 2400 J | 4880 J * | 5700 = * | 4130 = * | 3130 = * |
| Manganese | 383 J | 1100 J | 1240 J | 392 = | 1220 J |
| Mercury | 0.023 J | 0.031 J | 0.016 J | 0.022 J | 0.019 J |
| Nickel | 16.7 J | 12.4 J | 11.2 J | 16 = | 32.1 J * |
| Potassium | 453 J | 676 J | 618 = | 644 = | 697 = |
| Selenium | 2.3 UJ | 0.48 J | 2.4 U | 2.2 U | 2.2 U |
| Silver | 0.57 U | 0.58 U | 0.59 U | 0.55 U | 0.54 U |
| Sodium | 572 UJ | 138 J * | 151 J * | 552 U | 543 U |
| Thallium | 0.54 J * | 0.48 J * | 0.26 J * | 0.4 U | 0.29 J * |
| Vanadium | 12.8 J | 5.6 J | 5.5 = | 9.6 = | 11.3 = |
| Zinc | 189 J * | 242 J * | 131 = * | 76.3 = * | 131 = * |

Table I-1. Surface Soil Inorganics (continued)

| Location | Preparation and Receiving Areas Aggregate | Change Houses Aggregate | Packaging and Shipping Areas Aggregate | Packaging and Shipping Areas Aggregate | Packaging and Shipping Areas Aggregate |
|---|---|---|---|---|---|
| Station | LL4-091 | LL4-092 | LL4-093 | LL4-094 | LL4-094 |
| Sample ID | LL40747 | LL40750 | LL40753 | LL40756 | LL41146 |
| Customer ID | LL4ss-091-0747-SO | LL4ss-092-0750-SO | LL4ss-093-0753-SO | LL4ss-094-0756-SO | LL4ss-094-1146-SO |
| Date | 08/23/2001 | 08/14/2001 | 08/22/2001 | 08/22/2001 | 08/22/2001 |
| Depth (ft) | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 |
| Field Type | Grab | Grab | Grab | Grab | Field Duplicate |
| Analyte (mg/kg) | | | | | |
| Aluminum | 15800 = | 2090 = | 12500 = | 12100 = | 12900 = |
| Antimony | 1.3 R | 1.1 UJ | 1.3 R | 1.5 R | 1.4 R |
| Arsenic | 9 = | 3.6 = | 5.2 = | 12.9 = | 6.3 = |
| Barium | 55.8 = | 133 = * | 97.3 = * | 111 = * | 79 = |
| Beryllium | 0.46 U | 0.34 U | 1.7 J * | 0.77 U | 0.56 U |
| Cadmium | 0.63 U | 1.1 = * | 0.33 J * | 0.74 U | 0.68 U |
| Calcium | 1590 = | 161000 J * | 42300 = * | 18500 = * | 2130 = |
| Chromium | 14.2 = | 5.9 = | 8.4 = | 15.6 = | 13.7 = |
| Chromium, hexavalent | | | | | |
| Cobalt | 4.4 = | 3 = | 5.4 = | 8.5 = | 4.1 = |
| Copper | 9.3 = | 13.5 = | 11.8 = | 38.8 = * | 20.9 = * |
| Cyanide | | | | | |
| Iron | 20000 = | 7140 = | 8950 = | 38000 = * | 18400 = |
| Lead | 13.9 = | 84.6 = * | 19.2 = | 38 = * | 32.9 = * |
| Magnesium | 1760 = | 1700 = | 8340 = * | 2990 = | 1320 = |
| Manganese | 92.1 J | 540 = | 852 J | 625 J | 109 J |
| Mercury | 0.058 J * | 0.05 J * | 0.031 U | 0.02 U | 0.027 U |
| Nickel | 10 J | 11.4 = | 10.7 J | 20.9 J | 12.4 J |
| Potassium | 578 J | 358 J | 691 = | 1370 = * | 784 = |
| Selenium | 2.5 U | 0.67 J | 0.93 J | 3 U | 0.55 J |
| Silver | 0.63 U | 0.56 U | 0.63 U | 0.74 U | 0.68 U |
| Sodium | 629 U | 69.5 J | 332 J * | 101 J | 677 U |
| Thallium | 0.44 J * | 0.35 UJ | 0.29 = * | 0.58 = * | 0.54 = * |
| Vanadium | 27.4 = | 5 = | 5.9 = | 17.5 = | 16.2 = |
| Zinc | 43.2 = | 139 = * | 130 = * | 99.8 = * | 87.7 = * |

Table I-1. Surface Soil Inorganics (continued)

| Location | Packaging and Shipping Areas Aggregate | Packaging and Shipping Areas Aggregate | Packaging and Shipping Areas Aggregate | Packaging and Shipping Areas Aggregate | Packaging and Shipping Areas Aggregate |
|---|---|---|---|---|---|
| **Station** | **LL4-095** | **LL4-096** | **LL4-097** | **LL4-098** | **LL4-100** |
| **Sample ID** | **LL40759** | **LL40762** | **LL40765** | **LL40768** | **LL40772** |
| **Customer ID** | **LL4ss-095-0759-SO** | **LL4ss-096-0762-SO** | **LL4ss-097-0765-SO** | **LL4ss-098-0768-SO** | **LL4ss-100-0772-SO** |
| **Date** | **08/22/2001** | **08/22/2001** | **08/22/2001** | **08/22/2001** | **08/22/2001** |
| **Depth (ft)** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** |
| **Field Type** | **Grab** | **Grab** | **Grab** | **Grab** | **Grab** |
| **Analyte (mg/kg)** | | | | | |
| Aluminum | 12400 = | 6810 = | 13500 = | 11000 = | 6110 = |
| Antimony | 0.86 J | 1.5 J * | 0.68 J | 1.1 R | 1.2 UJ |
| Arsenic | 7.6 = | 10.5 = | 5.6 = | 4.5 = | 9.8 = |
| Barium | 269 = * | 163 = * | 198 = * | 84.9 = | 30.6 = |
| Beryllium | 1.5 J * | 0.6 U | 2.1 J * | 1.4 J * | 0.37 U |
| Cadmium | 9.1 = * | 5.5 = * | 3.8 = * | 0.21 J * | 0.29 J * |
| Calcium | 41700 = * | 16200 = * | 52700 = * | 36700 = * | 1130 = |
| Chromium | 30.2 = * | 15 = | 11.5 = | 7.1 = | 7.4 = |
| Chromium, hexavalent | | | | | |
| Cobalt | 8.5 = | 5.9 = | 3.5 = | 4.7 = | 4.3 = |
| Copper | 55.8 = * | 36.7 = * | 14.1 = | 10.4 = | 25.9 = * |
| Cyanide | | 0.55 U | | | |
| Iron | 27700 = * | 20100 = | 14300 = | 7860 = | 13200 = |
| Lead | 501 = * | 284 = * | 99 = * | 17.2 = | 31.3 = * |
| Magnesium | 9180 = * | 2460 = | 12800 = * | 7210 = * | 1220 = |
| Manganese | 1870 J * | 564 = | 1130 J | 752 J | 168 = |
| Mercury | 0.078 J * | 0.039 J * | 0.019 U | 0.024 U | 0.027 J |
| Nickel | 25.6 J * | 17.6 = | 9.9 J | 10.2 J | 10.9 = |
| Potassium | 738 = | 344 J | 963 = * | 638 = | 414 J |
| Selenium | 1.4 J | 0.6 J | 0.57 J | 0.36 J | 0.74 J |
| Silver | 0.6 U | 0.55 U | 0.55 U | 0.56 U | 0.62 U |
| Sodium | 109 J | 547 U | 215 J * | 307 J * | 620 U |
| Thallium | 0.29 = * | 0.34 U | 0.46 = * | 0.32 J * | 0.41 U |
| Vanadium | 10.6 = | 9 = | 9.3 = | 5.2 = | 9.1 = |
| Zinc | 508 = * | 336 = * | 232 = * | 116 = * | 843 = * |

Table I-1. Surface Soil Inorganics (continued)

| Location | Packaging and Shipping Areas Aggregate | Packaging and Shipping Areas Aggregate | Packaging and Shipping Areas Aggregate | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate |
|---|---|---|---|---|---|
| **Station** | **LL4-101** | **LL4-102** | **LL4-103** | **LL4-104** | **LL4-105** |
| **Sample ID** | **LL40775** | **LL40778** | **LL40781** | **LL40784** | **LL40787** |
| **Customer ID** | **LL4ss-101-0775-SO** | **LL4ss-102-0778-SO** | **LL4ss-103-0781-SO** | **LL4ss-104-0784-SO** | **LL4ss-105-0787-SO** |
| **Date** | **08/22/2001** | **08/22/2001** | **08/22/2001** | **08/14/2001** | **08/13/2001** |
| **Depth (ft)** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** |
| **Field Type** | **Grab** | **Grab** | **Grab** | **Grab** | **Grab** |
| **Analyte (mg/kg)** | | | | | |
| Aluminum | 3850 = | 11100 = | 15100 = | 9320 = | 9680 = |
| Antimony | 1.2 UJ | 1.2 UJ | 1.4 UJ | 1.2 UJ | 1.2 UJ |
| Arsenic | 8 = | 10.6 = | 9.1 = | 14.7 = | 8 = |
| Barium | 25.3 = | 45.1 = | 66.7 = | 80.8 = | 87.9 = |
| Beryllium | 0.3 U | 0.48 U | 0.64 U | 0.7 = | 0.52 = |
| Cadmium | 0.61 U | 0.62 U | 0.11 U | 1.6 = * | 1.2 = * |
| Calcium | 1940 = | 1670 = | 6840 = | 3240 J | 2250 = |
| Chromium | 4.5 = | 11.7 = | 15.1 = | 19.7 = * | 16.7 J |
| Chromium, hexavalent | | | | | |
| Cobalt | 3.2 = | 5.2 = | 5.2 = | 9.3 = | 9.8 = |
| Copper | 13.1 = | 15.7 = | 23.1 = * | 24.8 = * | 29.8 = * |
| Cyanide | | | | | |
| Iron | 9290 = | 19000 = | 18600 = | 25600 = * | 23600 = * |
| Lead | 13.8 = | 21.6 = | 20.2 = | 111 = * | 56.4 = * |
| Magnesium | 969 = | 1950 = | 2560 = | 2570 = | 2990 = |
| Manganese | 237 = | 154 = | 300 = | 337 = | 287 = |
| Mercury | 0.012 J | 0.03 J | 0.043 J * | 0.03 J | 0.04 J * |
| Nickel | 7.4 = | 13.6 = | 12.8 = | 20.9 = | 24.1 = * |
| Potassium | 295 J | 596 J | 693 = | 883 = | 1100 = * |
| Selenium | 2.4 U | 2.5 U | 0.64 J | 2.5 U | 2.4 U |
| Silver | 0.61 U | 0.62 U | 0.68 U | 0.62 U | 0.6 U |
| Sodium | 612 U | 619 U | 678 U | 624 U | 604 U |
| Thallium | 0.34 U | 0.41 U | 0.52 U | 0.62 = * | 0.3 = * |
| Vanadium | 6.5 = | 16.4 = | 24.2 = | 15.7 = | 15.9 = |
| Zinc | 48.9 = | 66.2 = * | 92.5 = * | 108 = * | 100 = * |

Table I-1. Surface Soil Inorganics (continued)

| Location | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate |
|---|---|---|---|---|---|
| **Station** | **LL4-106** | **LL4-106** | **LL4-107** | **LL4-110** | **LL4-111** |
| **Sample ID** | **LL40790** | **LL41147** | **LL40793** | **LL40798** | **LL40801** |
| **Customer ID** | **LL4ss-106-0790-SO** | **LL4ss-106-1147-SO** | **LL4ss-107-0793-SO** | **LL4ss-110-0798-SO** | **LL4ss-111-0801-SO** |
| **Date** | **08/14/2001** | **08/14/2001** | **08/12/2001** | **08/12/2001** | **08/12/2001** |
| **Depth (ft)** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** |
| **Field Type** | **Grab** | **Field Duplicate** | **Grab** | **Grab** | **Grab** |
| **Analyte (mg/kg)** | | | | | |
| Aluminum | 11900 = | 11800 = | 7590 = | 8690 = | 10500 = |
| Antimony | 1.2 UJ | 1.2 UJ | 1.1 UJ | 1.5 UJ | 1.2 UJ |
| Arsenic | 7.3 = | 7.5 = | 3.9 = | 6 = | 6.5 = |
| Barium | 53.6 = | 53.8 = | 27.4 = | 63.9 = | 59.2 = |
| Beryllium | 0.86 = | 0.89 = * | 0.32 J | 0.53 J | 0.55 J |
| Cadmium | 0.16 J * | 0.19 J * | 0.12 J * | 6.7 = * | 0.23 J * |
| Calcium | 1140 J | 1210 J | 439 J | 1530 J | 2680 J |
| Chromium | 15 = | 15.2 = | 9.2 = | 11.9 = | 13.1 = |
| Chromium, hexavalent | | | | | |
| Cobalt | 11.7 = * | 14 = * | 5.4 = | 10.3 = | 8.9 = |
| Copper | 25.5 = * | 26.5 = * | 13.2 = | 16.1 = | 17.9 = * |
| Cyanide | | | | 0.74 U | |
| Iron | 25700 = * | 26500 = * | 12300 = | 20100 = | 20500 = |
| Lead | 15.7 = | 17 = | 9.6 = | 35.4 = * | 14.1 = |
| Magnesium | 3070 = * | 3190 = * | 1900 = | 2050 = | 2520 = |
| Manganese | 228 = | 294 = | 94 = | 709 = | 291 = |
| Mercury | 0.022 J | 0.021 J | 0.11 U | 0.018 J | 0.025 J |
| Nickel | 24.7 = * | 25.4 = * | 13.3 = | 16.4 = | 19.2 = |
| Potassium | 891 = | 866 = | 544 J | 510 J | 874 J |
| Selenium | 2.5 U | 2.4 U | 2.2 U | 2.9 U | 2.5 U |
| Silver | 0.61 U | 0.6 U | 0.54 U | 0.74 U | 0.62 U |
| Sodium | 614 U | 602 U | 544 U | 260 J * | 617 U |
| Thallium | 0.61 = * | 0.69 = * | 0.45 = * | 0.66 = * | 0.6 J * |
| Vanadium | 18.4 = | 18.4 = | 11.2 = | 16.6 = | 16.8 = |
| Zinc | 67.5 = * | 71.2 = * | 39.4 = | 3680 = * | 91.1 = * |

Table I-1. Surface Soil Inorganics (continued)

| Location | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate |
|---|---|---|---|---|---|
| **Station** | **LL4-112** | **LL4-113** | **LL4-114** | **LL4-115** | **LL4-116** |
| **Sample ID** | **LL40804** | **LL40807** | **LL40810** | **LL40813** | **LL40816** |
| **Customer ID** | **LL4ss-112-0804-SO** | **LL4ss-113-0807-SO** | **LL4ss-114-0810-SO** | **LL4ss-115-0813-SO** | **LL4ss-116-0816-SO** |
| **Date** | **08/21/2001** | **08/21/2001** | **08/21/2001** | **08/14/2001** | **08/14/2001** |
| **Depth (ft)** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** |
| **Field Type** | **Grab** | **Grab** | **Grab** | **Grab** | **Grab** |
| **Analyte (mg/kg)** | | | | | |
| Aluminum | 8620 = | 10400 = | 8160 = | 4970 = | 5470 = |
| Antimony | 1.2 UJ | 1.2 UJ | 1.1 UJ | 1.1 UJ | 1.1 UJ |
| Arsenic | 12.1 = | 16.2 = * | 10.1 = | 9.9 J | 7.5 J |
| Barium | 200 J * | 98.6 J * | 50.8 J | 44.6 J | 34.4 J |
| Beryllium | 0.86 U | 0.76 U | 0.5 U | 0.42 J | 0.36 J |
| Cadmium | 0.2 J * | 1.5 = * | 0.18 J * | 0.18 J * | 0.29 J * |
| Calcium | 8740 = | 8860 = | 2770 = | 4670 J | 8700 J |
| Chromium | 12.5 J | 15.2 J | 11.3 J | 7.6 J | 67.7 J * |
| Chromium, hexavalent | | | | | |
| Cobalt | 78.3 J * | 7.6 J | 7.1 J | 4.4 = | 5.3 = |
| Copper | 16.6 = | 25.1 = * | 20 = * | 11.9 = | 10 = |
| Cyanide | | 0.59 U | | | |
| Iron | 23700 J * | 21800 J | 17100 J | 13200 J | 15400 J |
| Lead | 39.2 = * | 63.6 = * | 31.4 = * | 20 J | 418 J * |
| Magnesium | 2550 = | 3250 = * | 2020 = | 1350 J | 2320 J |
| Manganese | 4560 J * | 616 J | 408 J | 369 J | 448 J |
| Mercury | 0.11 J * | 0.02 J | 0.045 J * | 0.024 J | 0.023 J |
| Nickel | 15.8 J | 19.7 = | 19.7 J | 9.2 J | 9.2 J |
| Potassium | 788 J | 667 J | 763 J | 486 J | 537 J |
| Selenium | 4.8 U | 2.4 U | 2.3 U | 2.2 U | 2.3 U |
| Silver | 1.2 U | 0.59 U | 0.57 U | 0.55 U | 0.56 U |
| Sodium | 595 U | 588 UJ | 570 U | 555 U | 565 U |
| Thallium | 0.45 UJ | 0.47 UJ | 0.35 J * | 0.67 = * | 0.35 = * |
| Vanadium | 15.3 = | 14.9 = | 12.3 = | 8.3 J | 9 J |
| Zinc | 90.8 = * | 157 = * | 86.4 = * | 54.3 = | 72.2 = * |

Table I-1. Surface Soil Inorganics (continued)

| Location | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate |
|---|---|---|---|---|---|
| **Station** | **LL4-116** | **LL4-117** | **LL4-118** | **LL4-121** | **LL4-122** |
| **Sample ID** | **LL41141** | **LL40819** | **LL40822** | **LL40827** | **LL40830** |
| **Customer ID** | **LL4ss-116-1141-SO** | **LL4ss-117-0819-SO** | **LL4ss-118-0822-SO** | **LL4ss-121-0827-SO** | **LL4ss-122-0830-SO** |
| **Date** | **08/14/2001** | **08/21/2001** | **08/21/2001** | **08/21/2001** | **08/21/2001** |
| **Depth (ft)** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** |
| **Field Type** | **Field Duplicate** | **Grab** | **Grab** | **Grab** | **Grab** |
| **Analyte (mg/kg)** | | | | | |
| Aluminum | 5510 = | 12100 = | 9960 = | 10800 = | 4420 = |
| Antimony | 1.1 UJ | 1.2 UJ | 1.2 UJ | 1.1 UJ | 1.1 UJ |
| Arsenic | 9.6 J | 13.4 = | 13.1 = | 9.4 = | 8 = |
| Barium | 35.7 J | 94.8 = * | 77.5 = | 55.6 = | 24 J |
| Beryllium | 0.35 J | 0.61 J | 0.5 J | 0.53 J | 0.38 U |
| Cadmium | 0.34 J * | 0.93 = * | 0.85 = * | 0.079 U | 0.55 U |
| Calcium | 4280 J | 2390 = | 4770 = | 1810 = | 1040 = |
| Chromium | 8.6 J | 16.9 = | 14.8 = | 12.4 = | 8.6 J |
| Chromium, hexavalent | | | | | |
| Cobalt | 5.1 = | 10.3 = | 7.1 = | 11.6 = * | 7.2 J |
| Copper | 10.6 = | 71.8 = * | 28.1 = * | 8.5 = | 8.9 = |
| Cyanide | | 0.62 U | 0.58 U | 0.57 U | |
| Iron | 20800 J | 25400 = * | 21600 = | 19200 = | 15100 J |
| Lead | 17.4 J | 73.9 J * | 5790 J * | 19.4 J | 16.8 = |
| Magnesium | 1870 J | 3060 = * | 3220 = * | 1850 = | 942 = |
| Manganese | 374 J | 439 = | 398 = | 1290 = | 424 J |
| Mercury | 0.017 J | 0.011 J | 0.021 J | 0.053 J * | 0.11 U |
| Nickel | 10.1 J | 24.4 J * | 17.6 J | 12.5 J | 14.1 J |
| Potassium | 575 = | 895 J | 773 J | 532 J | 487 J |
| Selenium | 2.2 U | 2.5 U | 2.3 U | 0.45 J | 2.2 U |
| Silver | 0.56 U | 0.62 U | 0.58 U | 0.57 U | 0.55 U |
| Sodium | 561 U | 622 U | 577 U | 574 U | 551 U |
| Thallium | 0.7 = * | 0.82 J * | 0.81 = * | 0.81 = * | 0.32 J * |
| Vanadium | 11.5 J | 17.7 = | 15.6 = | 19 = | 8 = |
| Zinc | 50 = | 133 = * | 158 = * | 46.9 = | 61.5 = |

Table I-1. Surface Soil Inorganics (continued)

| Location | Preparation and Receiving Areas Aggregate | Preparation and Receiving Areas Aggregate | Preparation and Receiving Areas Aggregate | Preparation and Receiving Areas Aggregate | Preparation and Receiving Areas Aggregate |
|---|---|---|---|---|---|
| **Station** | **LL4-126** | **LL4-127** | **LL4-128** | **LL4-130** | **LL4-131** |
| **Sample ID** | **LL40836** | **LL40839** | **LL40842** | **LL40846** | **LL40849** |
| **Customer ID** | **LL4ss-126-0836-SO** | **LL4ss-127-0839-SO** | **LL4ss-128-0842-SO** | **LL4ss-130-0846-SO** | **LL4ss-131-0849-SO** |
| **Date** | **08/22/2001** | **08/20/2001** | **08/20/2001** | **08/14/2001** | **08/14/2001** |
| **Depth (ft)** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** |
| **Field Type** | **Grab** | **Grab** | **Grab** | **Grab** | **Grab** |
| **Analyte (mg/kg)** | | | | | |
| Aluminum | 14700 J | 12400 = | 6970 = | 8460 = | 9860 = |
| Antimony | 1.4 R | 1.1 UJ | 1.2 UJ | 1.1 UJ | 2.3 UJ |
| Arsenic | 11.9 J | 4.1 = | 8.7 = | 9.5 J | 27.3 = * |
| Barium | 87.9 J | 188 = * | 62.6 = | 50.2 J | 198 = * |
| Beryllium | 0.62 UJ | 1.6 = * | 0.4 U | 0.39 J | 0.71 = |
| Cadmium | 0.13 J * | 4.6 = * | 0.14 J * | 0.3 J * | 3.4 = * |
| Calcium | 5060 J | 45300 = * | 3020 = | 7520 J | 24400 J * |
| Chromium | 14.8 J | 12.5 = | 8.4 = | 11.7 J | 158 = * |
| Chromium, hexavalent | | | | | |
| Cobalt | 3 J | 4 = | 4.5 = | 5.8 = | 13.5 = * |
| Copper | 8 J | 13.6 = | 13.2 = | 13 = | 512 = * |
| Cyanide | | | | | |
| Iron | 26500 = * | 21000 = | 13500 = | 20200 J | 102000 = * |
| Lead | 21.8 J | 105 J * | 47.9 J * | 24.4 J | 987 = * |
| Magnesium | 963 J | 8190 = * | 1520 = | 3500 J * | 8840 = * |
| Manganese | 177 J | 1830 = * | 340 = | 407 J | 921 = |
| Mercury | 0.053 J * | 0.016 J | 0.019 J | 0.088 J * | 1.1 = * |
| Nickel | 7.8 J | 9 J | 11.4 J | 12.4 J | 47.8 = * |
| Potassium | 716 J | 855 J | 384 J | 688 = | 1180 = * |
| Selenium | 1.1 J | 2.2 U | 2.5 U | 2.3 U | 4.6 U |
| Silver | 0.68 U | 0.54 U | 0.62 U | 0.57 U | 0.58 U |
| Sodium | 677 UJ | 184 J * | 615 U | 570 U | 74 J |
| Thallium | 0.6 J * | 0.47 U | 0.64 = * | 0.66 = * | 0.66 = * |
| Vanadium | 18.1 J | 7.9 = | 11 = | 16.2 J | 40.5 = * |
| Zinc | 53.3 J | 263 = * | 70.6 = * | 64.2 = * | 749 = * |

Table I-1. Surface Soil Inorganics (continued)

| Location | Preparation and Receiving Areas Aggregate | Preparation and Receiving Areas Aggregate | Preparation and Receiving Areas Aggregate | Change Houses Aggregate | Change Houses Aggregate |
|---|---|---|---|---|---|
| **Station** | **LL4-131** | **LL4-132** | **LL4-133** | **LL4-136** | **LL4-137** |
| **Sample ID** | **LL41143** | **LL40852** | **LL40855** | **LL40860** | **LL40863** |
| **Customer ID** | **LL4ss-131-1143-SO** | **LL4ss-132-0852-SO** | **LL4ss-133-0855-SO** | **LL4ss-136-0860-SO** | **LL4ss-137-0863-SO** |
| **Date** | **08/14/2001** | **08/14/2001** | **08/14/2001** | **08/14/2001** | **08/14/2001** |
| **Depth (ft)** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** |
| **Field Type** | **Field Duplicate** | **Grab** | **Grab** | **Grab** | **Grab** |
| **Analyte (mg/kg)** | | | | | |
| Aluminum | 6380 = | 9940 = | 3980 = | 11100 = | 8390 = |
| Antimony | 1.2 UJ | 1.2 UJ | 1.1 UJ | 1.2 UJ | 1.2 UJ |
| Arsenic | 14.5 = | 12.6 J | 9.1 J | 12.9 = | 10.5 = |
| Barium | 92.3 = * | 52.9 J | 74.6 J | 49.2 = | 51.4 = |
| Beryllium | 0.46 J | 0.52 J | 0.37 J | 0.57 J | 0.52 J |
| Cadmium | 1.3 = * | 0.53 J * | 0.83 J * | 0.18 J * | 0.23 J * |
| Calcium | 5880 J | 1730 J | 39300 J * | 3110 J | 3450 J |
| Chromium | 23.9 = * | 15.2 J | 13.4 J | 13.5 = | 11.6 = |
| Chromium, hexavalent | | | | | |
| Cobalt | 7 = | 9.1 = | 5.1 = | 7.4 = | 8.3 = |
| Copper | 317 = * | 81.6 = * | 41.6 = * | 15.6 = | 17.2 = |
| Cyanide | | | | | |
| Iron | 24600 = * | 22800 J | 23500 J * | 22100 = | 19200 = |
| Lead | 209 = * | 51.5 J * | 105 J * | 26.6 = * | 19.6 = |
| Magnesium | 2390 = | 2910 J | 4730 J * | 2480 = | 2560 = |
| Manganese | 377 = | 305 J | 684 J | 398 = | 323 = |
| Mercury | 0.83 = * | 0.011 J | 7.4 = * | 0.026 J | 0.029 J |
| Nickel | 27.7 = * | 21.3 J * | 12.3 J | 14.1 = | 17 = |
| Potassium | 784 = | 784 = | 362 J | 701 = | 858 = |
| Selenium | 2.3 U | 2.5 U | 2.2 U | 2.3 U | 2.3 U |
| Silver | 0.58 U | 0.62 U | 0.56 U | 0.58 U | 0.58 U |
| Sodium | 585 U | 616 U | 560 U | 580 U | 577 U |
| Thallium | 0.6 = * | 0.58 J * | 0.26 = * | 0.49 = * | 0.59 = * |
| Vanadium | 21.6 = | 17.5 J | 9.7 J | 19.8 = | 13.7 = |
| Zinc | 349 = * | 398 = * | 101 = * | 53.7 = | 65.9 = * |

Table I-1. Surface Soil Inorganics (continued)

| Location | Change Houses Aggregate | Change Houses Aggregate | Perimeter Area Aggregate | Change Houses Aggregate | Explosives Handling Areas Aggregate |
|---|---|---|---|---|---|
| **Station** | **LL4-138** | **LL4-139** | **LL4-140** | **LL4-141** | **LL4-142** |
| **Sample ID** | **LL40866** | **LL40869** | **LL40872** | **LL40875** | **LL40878** |
| **Customer ID** | **LL4ss-138-0866-SO** | **LL4ss-139-0869-SO** | **LL4ss-140-0872-SO** | **LL4ss-141-0875-SO** | **LL4ss-142-0878-SO** |
| **Date** | **08/21/2001** | **08/21/2001** | **08/26/2001** | **08/14/2001** | **08/24/2001** |
| **Depth (ft)** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** |
| **Field Type** | **Grab** | **Grab** | **Grab** | **Grab** | **Grab** |
| **Analyte (mg/kg)** | | | | | |
| Aluminum | 8800 = | 11500 = | 9980 = | 8190 = | 9780 J |
| Antimony | 1.2 UJ | 1.2 UJ | 1.1 R | 1.2 UJ | 2.2 J * |
| Arsenic | 8.7 = | 12.8 = | 8.8 = | 7.3 = | 11.7 J |
| Barium | 45.6 = | 45.6 = | 89 = * | 77.3 = | 71.6 J |
| Beryllium | 0.46 J | 0.56 J | 0.9 J * | 0.81 = | 0.73 UJ |
| Cadmium | 0.36 J * | 0.87 = * | 0.31 J * | 0.85 = * | 0.48 J * |
| Calcium | 4560 = | 1660 = | 53400 = * | 13500 J | 3140 J |
| Chromium | 12 = | 25.9 = * | 10.3 = | 12 = | 17.7 J * |
| Chromium, hexavalent | | | | 1.2 R | 1.9 J |
| Cobalt | 7.4 = | 9.7 = | 5.7 = | 5.1 = | 9.4 J |
| Copper | 20.1 = * | 24 = * | 14.4 = | 35.6 = * | 23.5 J * |
| Cyanide | | | 0.57 U | 0.61 U | |
| Iron | 20100 = | 23300 = * | 14700 = | 13600 = | 22900 = |
| Lead | 22.3 J | 397 J * | 22.8 = | 279 = * | 117 J * |
| Magnesium | 3360 = * | 2610 = | 4670 = * | 4470 = * | 2600 J |
| Manganese | 676 = | 320 = | 862 = | 724 = | 356 J |
| Mercury | 0.041 J * | 0.015 U | 0.026 U | 0.026 J | 0.058 J * |
| Nickel | 18 J | 20.1 J | 13.6 = | 18.5 = | 22.8 J * |
| Potassium | 574 J | 712 J | 837 = | 668 = | 757 J |
| Selenium | 2.3 U | 2.3 U | 0.35 J | 2.4 U | 2.3 UJ |
| Silver | 0.58 U | 0.58 U | 0.57 U | 0.61 U | 0.58 U |
| Sodium | 577 U | 583 U | 87.4 J | 607 U | 580 UJ |
| Thallium | 0.77 = * | 0.85 J * | 0.17 UJ | 0.36 U | 0.61 J * |
| Vanadium | 14.9 = | 16.3 = | 12 = | 10.2 = | 16.6 J |
| Zinc | 69.1 = * | 113 = * | 70.3 = * | 194 = * | 170 J * |

Table I-1. Surface Soil Inorganics (continued)

| Location | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate | Perimeter Area Aggregate | Perimeter Area Aggregate | Perimeter Area Aggregate |
|---|---|---|---|---|---|
| **Station** | **LL4-142** | **LL4-143** | **LL4-150** | **LL4-150** | **LL4-151** |
| **Sample ID** | **LL41142** | **LL40881** | **LL40902** | **LL41149** | **LL40903** |
| **Customer ID** | **LL4ss-142-1142-SO** | **LL4ss-143-0881-SO** | **LL4ss-150-0902-SO** | **LL4ss-150-1149-SO** | **LL4ss-151-0903-SO** |
| **Date** | **08/24/2001** | **08/24/2001** | **08/23/2001** | **08/23/2001** | **08/23/2001** |
| **Depth (ft)** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** |
| **Field Type** | **Field Duplicate** | **Grab** | **Grab** | **Field Duplicate** | **Grab** |
| **Analyte (mg/kg)** | | | | | |
| Aluminum | 9510 J | 14200 = | 15400 J | 14900 = | 8910 J |
| Antimony | 1.8 J * | 1.2 R | 1.2 R | 1.2 R | 1.2 R |
| Arsenic | 11.6 J | 10.8 = | 11.3 J | 11.6 = | 5.5 J |
| Barium | 68.2 J | 68.8 = | 45.7 J | 44.3 = | 56 J |
| Beryllium | 0.71 UJ | 0.73 J | 0.64 UJ | 0.6 U | 0.52 UJ |
| Cadmium | 0.48 J * | 0.061 U | 0.61 UJ | 0.6 U | 0.12 J * |
| Calcium | 2860 J | 4030 = | 484 J | 464 J | 2400 J |
| Chromium | 22.5 J * | 15.4 = | 17.6 J * | 16.6 = | 8.5 J |
| Chromium, hexavalent | 1.2 UJ | | | | |
| Cobalt | 9.5 J | 9.3 = | 7.5 J | 9.1 = | 6.6 J |
| Copper | 22.5 J * | 16.3 = | 15 J | 15.8 = | 7.7 J |
| Cyanide | | | | | |
| Iron | 22000 = | 21900 = | 23700 = * | 24000 = * | 10000 = |
| Lead | 161 J * | 17 = | 17 J | 17.3 = | 16.8 J |
| Magnesium | 2510 J | 3120 = * | 2830 J | 2800 = | 1620 J |
| Manganese | 313 J | 308 = | 188 J | 258 J | 656 J |
| Mercury | 0.056 J * | 0.021 U | 0.012 J | 0.019 J | 0.016 J |
| Nickel | 23 J * | 20.3 = | 17.9 J | 19.3 J | 8.9 J |
| Potassium | 707 J | 921 = | 969 J * | 964 = * | 392 J |
| Selenium | 2.3 UJ | 0.62 J | 0.87 J | 2.4 U | 0.45 J |
| Silver | 0.58 U | 0.58 U | 0.61 U | 0.6 U | 0.61 U |
| Sodium | 579 UJ | 576 U | 611 UJ | 601 U | 606 UJ |
| Thallium | 0.67 J * | 0.23 U | 0.56 J * | 0.64 J * | 0.33 J * |
| Vanadium | 16 J | 19.7 = | 22.3 J | 22.2 = | 12.1 J |
| Zinc | 175 J * | 61.5 = | 59.3 J | 58.3 = | 42.6 J |

Table I-1. Surface Soil Inorganics (continued)

| Location | Perimeter Area Aggregate | Perimeter Area Aggregate | Perimeter Area Aggregate | Perimeter Area Aggregate | Perimeter Area Aggregate |
|---|---|---|---|---|---|
| **Station** | **LL4-152** | **LL4-153** | **LL4-154** | **LL4-155** | **LL4-156** |
| **Sample ID** | **LL40904** | **LL40905** | **LL40906** | **LL40907** | **LL40908** |
| **Customer ID** | **LL4ss-152-0904-SO** | **LL4ss-153-0905-SO** | **LL4ss-154-0906-SO** | **LL4ss-155-0907-SO** | **LL4ss-156-0908-SO** |
| **Date** | **08/23/2001** | **08/23/2001** | **08/23/2001** | **08/23/2001** | **08/24/2001** |
| **Depth (ft)** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** |
| **Field Type** | **Grab** | **Grab** | **Grab** | **Grab** | **Grab** |
| **Analyte (mg/kg)** | | | | | |
| Aluminum | 6290 J | 10500 = | 8860 = | 12900 = | 10600 J |
| Antimony | 1.2 R | 1.1 R | 1.1 R | 1.2 R | 1.2 R |
| Arsenic | 4 J | 10.4 = | 5.8 = | 7.4 = | 7 J |
| Barium | 20.6 J | 48.2 = | 53.7 = | 39.3 = | 64.4 J |
| Beryllium | 0.36 UJ | 0.56 U | 0.42 U | 0.52 U | 0.76 UJ |
| Cadmium | 0.083 J * | 0.57 U | 0.57 U | 0.61 U | 0.13 J * |
| Calcium | 725 J | 2090 = | 340 J | 160 J | 1370 J |
| Chromium | 6.2 J | 12.5 = | 9.3 = | 10.3 = | 12.6 J |
| Chromium, hexavalent | | | | | |
| Cobalt | 2.6 J | 6.9 = | 2.2 = | 3 = | 14.8 J * |
| Copper | 8.5 J | 13.4 = | 4.8 = | 13.1 = | 12.8 J |
| Cyanide | | | | | |
| Iron | 6870 = | 19600 = | 12400 = | 15400 = | 17000 = |
| Lead | 12 J | 19.7 = | 16.6 = | 64.4 = * | 21.9 J |
| Magnesium | 1020 J | 2200 = | 1060 = | 893 = | 2040 J |
| Manganese | 84.7 J | 325 J | 97.3 J | 112 J | 617 J |
| Mercury | 0.12 R | 0.03 J | 0.036 J | 0.087 J * | 0.037 J * |
| Nickel | 6.9 J | 14.8 J | 7.6 J | 7.6 J | 17.7 J |
| Potassium | 416 J | 725 = | 539 J | 353 J | 652 J |
| Selenium | 2.3 UJ | 2.3 U | 2.3 U | 0.42 J | 2.4 UJ |
| Silver | 0.58 U | 0.57 U | 0.57 U | 0.61 U | 0.6 U |
| Sodium | 583 UJ | 573 U | 570 U | 606 U | 603 UJ |
| Thallium | 0.5 J * | 0.61 J * | 0.49 J * | 0.34 J * | 0.47 J * |
| Vanadium | 7.6 J | 17.8 = | 13.2 = | 21.2 = | 15.8 J |
| Zinc | 31.5 J | 54 = | 33.8 = | 46.5 = | 60.8 J |

Table I-1. Surface Soil Inorganics (continued)

| Location | Perimeter Area Aggregate | Explosives Handling Areas Aggregate | Perimeter Area Aggregate | Perimeter Area Aggregate | Perimeter Area Aggregate |
|---|---|---|---|---|---|
| **Station** | **LL4-157** | **LL4-158** | **LL4-159** | **LL4-160** | **LL4-161** |
| **Sample ID** | **LL40909** | **LL40910** | **LL40911** | **LL40912** | **LL40913** |
| **Customer ID** | **LL4ss-157-0909-SO** | **LL4ss-158-0910-SO** | **LL4ss-159-0911-SO** | **LL4ss-160-0912-SO** | **LL4ss-161-0913-SO** |
| **Date** | **08/24/2001** | **08/24/2001** | **08/23/2001** | **08/23/2001** | **08/24/2001** |
| **Depth (ft)** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** |
| **Field Type** | **Grab** | **Grab** | **Grab** | **Grab** | **Grab** |
| **Analyte (mg/kg)** | | | | | |
| Aluminum | 14500 J | 7800 = | 6150 = | 12900 = | 9830 = |
| Antimony | 1.3 R | 1.2 R | 1.1 R | 1.2 R | 1.2 R |
| Arsenic | 6.4 J | 4.9 = | 2.3 = | 5.9 = | 9.5 = |
| Barium | 66.9 J | 31.1 = | 29.3 = | 58.9 = | 58.8 = |
| Beryllium | 0.74 UJ | 0.32 U | 0.31 U | 0.69 U | 0.53 J |
| Cadmium | 0.084 J * | 0.11 U | 0.57 U | 0.6 U | 0.38 J * |
| Calcium | 405 J | 700 = | 178 J | 1800 = | 1960 = |
| Chromium | 20.1 J * | 8.9 = | 6.5 = | 15.2 = | 13.2 = |
| Chromium, hexavalent | | | | | |
| Cobalt | 6.8 J | 3.7 = | 2.8 = | 6.2 = | 12.2 = * |
| Copper | 13.5 J | 8.9 = | 6.9 = | 14.8 = | 11.7 = |
| Cyanide | 0.66 U | | | | |
| Iron | 20000 = | 10700 = | 6380 = | 21300 = | 22500 = |
| Lead | 212 J * | 15 = | 19 = | 22.1 = | 26.9 = * |
| Magnesium | 2100 J | 1110 = | 681 = | 2320 = | 1930 = |
| Manganese | 419 J | 97.4 = | 204 J | 150 J | 930 = |
| Mercury | 0.041 J * | 0.029 U | 0.058 J * | 0.062 J * | 0.049 U |
| Nickel | 14.9 J | 8.5 = | 5.4 J | 19.1 J | 14.1 = |
| Potassium | 746 J | 479 J | 444 J | 1020 = * | 691 = |
| Selenium | 2.6 UJ | 0.68 J | 2.3 U | 2.4 U | 0.93 J |
| Silver | 0.66 U | 0.58 U | 0.57 U | 0.6 U | 0.59 U |
| Sodium | 661 UJ | 578 U | 575 U | 600 U | 586 U |
| Thallium | 0.61 J * | 0.28 U | 0.48 J * | 0.43 J * | 0.25 U |
| Vanadium | 19.3 J | 13.4 = | 9 = | 18.3 = | 22.8 = |
| Zinc | 56.7 J | 44.9 = | 28.1 = | 74 = * | 68.5 = * |

Table I-1. Surface Soil Inorganics (continued)

| Location | Perimeter Area Aggregate | Perimeter Area Aggregate | Perimeter Area Aggregate | Perimeter Area Aggregate |
|---|---|---|---|---|
| **Station** | **LL4-161** | **LL4-162** | **LL4-163** | **LL4-164** |
| **Sample ID** | **LL41150** | **LL40914** | **LL40915** | **LL40916** |
| **Customer ID** | **LL4ss-161-1150-SO** | **LL4ss-162-0914-SO** | **LL4ss-163-0915-SO** | **LL4ss-164-0916-SO** |
| **Date** | **08/24/2001** | **08/23/2001** | **08/24/2001** | **08/23/2001** |
| **Depth (ft)** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** |
| **Field Type** | **Field Duplicate** | **Grab** | **Grab** | **Grab** |
| **Analyte (mg/kg)** | | | | |
| Aluminum | 10000 = | 12200 = | 11500 J | 11600 = |
| Antimony | 1.1 R | 1.2 R | 1.2 R | 1.1 R |
| Arsenic | 9.4 = | 9.7 = | 9 J | 10.1 = |
| Barium | 57.7 = | 80.5 = | 49.2 J | 112 = * |
| Beryllium | 0.5 U | 0.66 U | 0.64 UJ | 1.5 J * |
| Cadmium | 0.34 J * | 0.6 U | 0.6 UJ | 0.055 J * |
| Calcium | 1680 = | 826 = | 222 J | 44400 = * |
| Chromium | 12.9 = | 12.9 = | 12.5 J | 10.1 = |
| Chromium, hexavalent | | | | |
| Cobalt | 11 = * | 8.1 = | 9.7 J | 3.5 = |
| Copper | 11.6 = | 8.8 = | 9.6 J | 4.9 = |
| Cyanide | | | | |
| Iron | 19900 = | 20600 = | 17500 = | 11200 = |
| Lead | 23.5 = | 18.6 = | 13.3 J | 13.4 = |
| Magnesium | 2060 = | 1690 = | 1840 J | 8170 = * |
| Manganese | 868 = | 598 J | 501 J | 1780 J * |
| Mercury | 0.044 U | 0.078 J * | 0.045 J * | 0.019 J |
| Nickel | 14.6 = | 13.3 J | 12.3 J | 7.8 J |
| Potassium | 719 = | 771 = | 516 J | 863 = |
| Selenium | 0.45 J | 2.4 U | 2.4 UJ | 0.41 J |
| Silver | 0.57 U | 0.6 U | 0.6 U | 0.57 U |
| Sodium | 571 U | 598 U | 598 UJ | 170 J * |
| Thallium | 0.3 U | 0.67 J * | 0.59 J * | 0.4 J * |
| Vanadium | 22.8 = | 18.4 = | 19.2 J | 9 = |
| Zinc | 70.2 = * | 54.2 = | 41.4 J | 34 = |

**Table I-1. Surface Soil Inorganics (continued)**

| Location | Perimeter Area Aggregate | Perimeter Area Aggregate |
|---|---|---|
| **Station** | **LL4-165** | **LL4-166** |
| **Sample ID** | **LL40917** | **LL40918** |
| **Customer ID** | **LL4ss-165-0917-SO** | **LL4ss-166-0918-SO** |
| **Date** | **08/23/2001** | **08/23/2001** |
| **Depth (ft)** | **0 - 1** | **0 - 1** |
| **Field Type** | **Grab** | **Grab** |
| **Analyte (mg/kg)** | | |
| Aluminum | 10600 J | 9170 = |
| Antimony | 1.4 R | 1.2 R |
| Arsenic | 8.2 J | 6.9 = |
| Barium | 69.1 J | 48 = |
| Beryllium | 0.67 UJ | 0.39 U |
| Cadmium | 0.17 J * | 0.6 U |
| Calcium | 1540 J | 597 = |
| Chromium | 11.6 J | 10 = |
| Chromium, hexavalent | | |
| Cobalt | 7.5 J | 4.6 = |
| Copper | 8.8 J | 4.8 = |
| Cyanide | | |
| Iron | 17100 = | 15900 = |
| Lead | 20.1 J | 12.8 = |
| Magnesium | 1490 J | 898 = |
| Manganese | 387 J | 327 J |
| Mercury | 0.031 J | 0.051 J * |
| Nickel | 11.5 J | 7.2 J |
| Potassium | 550 J | 547 J |
| Selenium | 0.49 J | 0.53 J |
| Silver | 0.69 U | 0.6 U |
| Sodium | 687 UJ | 596 U |
| Thallium | 0.54 J * | 0.36 J * |
| Vanadium | 17.4 J | 14.4 = |
| Zinc | 55.9 J | 32.2 = |

* - exceeds site-wide background criteria.
= - detected, J - estimated, U - not detected, R - rejected.

## Table I-2. Surface Soil Explosives and Propellants

| Location | Perimeter Area Aggregate | Perimeter Area Aggregate | Perimeter Area Aggregate | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate |
|---|---|---|---|---|---|---|---|
| Station | LL4-068 | LL4-069 | LL4-070 | LL4-071 | LL4-073 | LL4-075 | LL4-076 |
| Sample ID | LL40680 | LL40683 | LL40686 | LL40689 | LL40695 | LL40701 | LL40704 |
| Customer ID | LL4ss-068-0680-SO | LL4ss-069-0683-SO | LL4ss-070-0686-SO | LL4ss-071-0689-SO | LL4ss-073-0695-SO | LL4ss-075-0701-SO | LL4ss-076-0704-SO |
| Date | 08/21/2001 | 08/21/2001 | 08/21/2001 | 08/21/2001 | 08/21/2001 | 08/22/2001 | 08/22/2001 |
| Depth (ft) | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 |
| Field Type | Grab | Grab | Grab | Grab | Grab | Grab | Grab |
| Analyte (mg/kg) | | | | | | | |
| 1,3,5-Trinitrobenzene | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| 1,3-Dinitrobenzene | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| 2,4,6-Trinitrotoluene | 0.25 U | 0.25 U | 0.25 U | 0.096 J | 0.25 U | 0.25 U | 0.25 U |
| 2,4-Dinitrotoluene | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| 2,6-Dinitrotoluene | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| 2-Amino-4,6-dinitrotoluene | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| 2-Nitrotoluene | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| 3-Nitrotoluene | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| 4-Amino-2,6-dinitrotoluene | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| 4-Nitrotoluene | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| HMX | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Nitrobenzene | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| Nitrocellulose | 2 U | | | | | | |
| Nitroglycerin | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| Nitroguanidine | 0.25 U | | | | | | |
| RDX | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Tetryl | 0.65 U | 0.65 U | 0.65 U | 0.65 U | 0.65 UJ | 0.65 U | 0.65 U |

Table I-2. Surface Soil Explosives and Propellants (continued)

| Location | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate | Preparation and Receiving Areas Aggregate | Preparation and Receiving Areas Aggregate | Preparation and Receiving Areas Aggregate |
|---|---|---|---|---|---|---|---|
| Station | LL4-076 | LL4-077 | LL4-080 | LL4-081 | LL4-084 | LL4-087 | LL4-088 |
| Sample ID | LL41138 | LL40707 | LL40714 | LL40717 | LL40726 | LL40735 | LL40738 |
| Customer ID | LL4ss-076-1138-SO | LL4ss-077-0707-SO | LL4ss-080-0714-SO | LL4ss-081-0717-SO | LL4ss-084-0726-SO | LL4ss-087-0735-SO | LL4ss-088-0738-SO |
| Date | 08/22/2001 | 08/22/2001 | 08/22/2001 | 08/22/2001 | 08/24/2001 | 08/24/2001 | 08/22/2001 |
| Depth (ft) | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 |
| Field Type | Field Duplicate | Grab | Grab | Grab | Grab | Grab | Grab |
| Analyte (mg/kg) | | | | | | | |
| 1,3,5-Trinitrobenzene | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| 1,3-Dinitrobenzene | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| 2,4,6-Trinitrotoluene | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| 2,4-Dinitrotoluene | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| 2,6-Dinitrotoluene | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| 2-Amino-4,6-dinitrotoluene | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| 2-Nitrotoluene | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| 3-Nitrotoluene | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| 4-Amino-2,6-dinitrotoluene | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| 4-Nitrotoluene | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| HMX | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Nitrobenzene | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| Nitrocellulose | | | | | 4 U | | 18.8 = |
| Nitroglycerin | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| Nitroguanidine | | | | | 0.25 U | | 0.25 U |
| RDX | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Tetryl | 0.65 U | 0.65 U | 0.65 U | 0.65 U | 0.65 U | 0.65 U | 0.65 U |

Table I-2. Surface Soil Explosives and Propellants (continued)

| Location | Preparation and Receiving Areas Aggregate | Preparation and Receiving Areas Aggregate | Packaging and Shipping Areas Aggregate | Packaging and Shipping Areas Aggregate | Packaging and Shipping Areas Aggregate | Packaging and Shipping Areas Aggregate | Packaging and Shipping Areas Aggregate |
|---|---|---|---|---|---|---|---|
| **Station** | **LL4-089** | **LL4-090** | **LL4-094** | **LL4-095** | **LL4-096** | **LL4-097** | **LL4-098** |
| **Sample ID** | **LL40741** | **LL41139** | **LL40756** | **LL40759** | **LL40762** | **LL40765** | **LL40768** |
| **Customer ID** | **LL4ss-089-0741-SO** | **LL4ss-090-1139-SO** | **LL4ss-094-0756-SO** | **LL4ss-095-0759-SO** | **LL4ss-096-0762-SO** | **LL4ss-097-0765-SO** | **LL4ss-098-0768-SO** |
| **Date** | **08/23/2001** | **08/23/2001** | **08/22/2001** | **08/22/2001** | **08/22/2001** | **08/22/2001** | **08/22/2001** |
| **Depth (ft)** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** |
| **Field Type** | **Grab** | **Field Duplicate** | **Grab** | **Grab** | **Grab** | **Grab** | **Grab** |
| **Analyte (mg/kg)** | | | | | | | |
| 1,3,5-Trinitrobenzene | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| 1,3-Dinitrobenzene | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| 2,4,6-Trinitrotoluene | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| 2,4-Dinitrotoluene | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| 2,6-Dinitrotoluene | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| 2-Amino-4,6-dinitrotoluene | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| 2-Nitrotoluene | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| 3-Nitrotoluene | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| 4-Amino-2,6-dinitrotoluene | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| 4-Nitrotoluene | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| HMX | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Nitrobenzene | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| Nitrocellulose | | | | | 9 = | | |
| Nitroglycerin | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| Nitroguanidine | | | | | 0.25 U | | |
| RDX | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Tetryl | 0.65 U | 0.65 U | 0.65 U | 0.65 U | 0.65 U | 0.65 U | 0.65 U |

Table I-2. Surface Soil Explosives and Propellants (continued)

| Location | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate | Preparation and Receiving Areas Aggregate | Change Houses Aggregate |
|---|---|---|---|---|---|---|---|
| **Station** | **LL4-105** | **LL4-113** | **LL4-114** | **LL4-116** | **LL4-116** | **LL4-127** | **LL4-139** |
| **Sample ID** | **LL40787** | **LL40807** | **LL40810** | **LL40816** | **LL41141** | **LL40839** | **LL40869** |
| **Customer ID** | **LL4ss-105-0787-SO** | **LL4ss-113-0807-SO** | **LL4ss-114-0810-SO** | **LL4ss-116-0816-SO** | **LL4ss-116-1141-SO** | **LL4ss-127-0839-SO** | **LL4ss-139-0869-SO** |
| **Date** | **08/13/2001** | **08/21/2001** | **08/21/2001** | **08/14/2001** | **08/14/2001** | **08/20/2001** | **08/21/2001** |
| **Depth (ft)** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** |
| **Field Type** | **Grab** | **Grab** | **Grab** | **Grab** | **Field Duplicate** | **Grab** | **Grab** |
| **Analyte (mg/kg)** | | | | | | | |
| 1,3,5-Trinitrobenzene | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| 1,3-Dinitrobenzene | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| 2,4,6-Trinitrotoluene | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| 2,4-Dinitrotoluene | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| 2,6-Dinitrotoluene | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| 2-Amino-4,6-dinitrotoluene | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| 2-Nitrotoluene | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| 3-Nitrotoluene | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| 4-Amino-2,6-dinitrotoluene | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| 4-Nitrotoluene | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| HMX | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Nitrobenzene | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| Nitrocellulose | | 2 U | | | | 3.8 U | |
| Nitroglycerin | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| Nitroguanidine | | 0.25 U | | | | 0.25 U | |
| RDX | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Tetryl | 0.65 U | 0.65 U | 0.65 U | 0.65 U | 0.65 U | 0.65 UJ | 0.65 UJ |

**Table I-2. Surface Soil Explosives and Propellants (continued)**

| Location | Explosives Handling Areas Aggregate | Perimeter Area Aggregate | Perimeter Area Aggregate | Perimeter Area Aggregate |
|---|---|---|---|---|
| **Station** | **LL4-142** | **LL4-150** | **LL4-154** | **LL4-157** |
| **Sample ID** | **LL40878** | **LL40902** | **LL40906** | **LL40909** |
| **Customer ID** | **LL4ss-142-0878-SO** | **LL4ss-150-0902-SO** | **LL4ss-154-0906-SO** | **LL4ss-157-0909-SO** |
| **Date** | **08/24/2001** | **08/23/2001** | **08/23/2001** | **08/24/2001** |
| **Depth (ft)** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** |
| **Field Type** | **Grab** | **Grab** | **Grab** | **Grab** |
| **Analyte (mg/kg)** | | | | |
| 1,3,5-Trinitrobenzene | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| 1,3-Dinitrobenzene | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| 2,4,6-Trinitrotoluene | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| 2,4-Dinitrotoluene | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| 2,6-Dinitrotoluene | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| 2-Amino-4,6-dinitrotoluene | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| 2-Nitrotoluene | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| 3-Nitrotoluene | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| 4-Amino-2,6-dinitrotoluene | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| 4-Nitrotoluene | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| HMX | 3.6 = | 0.5 U | 0.5 U | 0.5 U |
| Nitrobenzene | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| Nitrocellulose | | | | |
| Nitroglycerin | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| Nitroguanidine | | | | |
| RDX | 19 = | 0.5 U | 0.5 U | 0.5 U |
| Tetryl | 0.65 U | 0.65 U | 0.65 U | 0.65 U |

= - detected, J - estimated, U - not detected, R - rejected.

Table I-3. Surface Soil Pesticides and PCBs

| Location | Perimeter Area Aggregate | Perimeter Area Aggregate | Perimeter Area Aggregate | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate |
|---|---|---|---|---|---|
| **Station** | **LL4-068** | **LL4-069** | **LL4-070** | **LL4-071** | **LL4-073** |
| **Sample ID** | **LL40680** | **LL40683** | **LL40686** | **LL40689** | **LL40695** |
| **Customer ID** | **LL4ss-068-0680-SO** | **LL4ss-069-0683-SO** | **LL4ss-070-0686-SO** | **LL4ss-071-0689-SO** | **LL4ss-073-0695-SO** |
| **Date** | **08/21/2001** | **08/21/2001** | **08/21/2001** | **08/21/2001** | **08/21/2001** |
| **Depth (ft)** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** |
| **Field Type** | **Grab** | **Grab** | **Grab** | **Grab** | **Grab** |
| **Analyte (mg/kg)** | | | | | |
| 4,4'-DDD | | 0.0039 U | 0.0039 U | 0.1 J | 0.0045 U |
| 4,4'-DDE | | 0.0039 U | 0.0039 U | 0.039 U | 0.0045 U |
| 4,4'-DDT | | 0.0039 U | 0.0039 U | 0.29 J | 0.0045 U |
| Aldrin | | 0.0039 U | 0.0039 U | 0.039 U | 0.0045 U |
| Dieldrin | | 0.0039 U | 0.0039 U | 0.07 J | 0.0045 U |
| Endosulfan I | | 0.0039 U | 0.0039 U | 0.039 U | 0.0045 U |
| Endosulfan II | | 0.0039 U | 0.0039 U | 0.039 U | 0.0045 U |
| Endosulfan sulfate | | 0.0039 U | 0.0039 U | 0.039 U | 0.0045 U |
| Endrin | | 0.0039 UJ | 0.0039 UJ | 0.039 U | 0.0045 UJ |
| Endrin aldehyde | | 0.0039 U | 0.0039 U | 0.84 J | 0.0045 U |
| Endrin ketone | | 0.0039 U | 0.0039 U | 0.039 U | 0.0045 U |
| Heptachlor | | 0.0039 U | 0.0039 U | 0.67 = | 0.0045 U |
| Heptachlor epoxide | | 0.0039 U | 0.0039 U | 0.052 J | 0.0045 U |
| Lindane | | 0.0039 U | 0.0039 U | 0.039 U | 0.0045 U |
| Methoxychlor | | 0.0076 U | 0.0076 U | 0.21 J | 0.0088 U |
| PCB-1016 | 0.038 U | 0.038 UJ | 0.038 UJ | 3.7 UJ | 0.044 U |
| PCB-1221 | 0.038 U | 0.038 U | 0.038 U | 3.7 U | 0.044 U |
| PCB-1232 | 0.038 U | 0.038 U | 0.038 U | 3.7 U | 0.044 U |
| PCB-1242 | 0.038 U | 0.038 U | 0.038 U | 3.7 U | 0.044 U |
| PCB-1248 | 0.038 U | 0.038 U | 0.038 U | 3.7 U | 0.044 U |
| PCB-1254 | 0.038 U | 0.038 U | 0.038 U | 3.7 U | 0.044 U |
| PCB-1260 | 0.038 U | 0.038 UJ | 0.038 UJ | 28 J | 0.044 R |
| Toxaphene | | 0.15 U | 0.16 U | 1.5 U | 0.18 U |
| alpha-BHC | | 0.0039 U | 0.0039 U | 0.039 U | 0.0045 U |
| alpha-Chlordane | | 0.0039 U | 0.0039 U | 0.039 U | 0.0045 U |
| beta-BHC | | 0.0039 U | 0.0039 U | 0.039 U | 0.0045 U |
| delta-BHC | | 0.0039 U | 0.0039 U | 0.039 U | 0.0045 R |
| gamma-Chlordane | | 0.0039 U | 0.0039 U | 0.083 J | 0.0045 U |

Table I-3. Surface Soil Pesticides and PCBs (continued)

| Location | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate |
|---|---|---|---|---|---|
| **Station** | **LL4-074** | **LL4-074** | **LL4-075** | **LL4-076** | **LL4-076** |
| **Sample ID** | **LL40698** | **LL41148** | **LL40701** | **LL40704** | **LL41138** |
| **Customer ID** | **LL4ss-074-0698-SO** | **LL4ss-074-1148-SO** | **LL4ss-075-0701-SO** | **LL4ss-076-0704-SO** | **LL4ss-076-1138-SO** |
| **Date** | **08/21/2001** | **08/21/2001** | **08/22/2001** | **08/22/2001** | **08/22/2001** |
| **Depth (ft)** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** |
| **Field Type** | **Grab** | **Field Duplicate** | **Grab** | **Grab** | **Field Duplicate** |
| **Analyte (mg/kg)** | | | | | |
| 4,4'-DDD | | | | 0.019 U | 0.019 U |
| 4,4'-DDE | | | | 0.019 U | 0.019 U |
| 4,4'-DDT | | | | 0.019 U | 0.019 U |
| Aldrin | | | | 0.019 U | 0.019 U |
| Dieldrin | | | | 0.019 U | 0.019 U |
| Endosulfan I | | | | 0.019 U | 0.019 U |
| Endosulfan II | | | | 0.019 U | 0.019 U |
| Endosulfan sulfate | | | | 0.019 U | 0.019 U |
| Endrin | | | | 0.019 U | 0.019 U |
| Endrin aldehyde | | | | 0.019 U | 0.019 U |
| Endrin ketone | | | | 0.019 U | 0.019 U |
| Heptachlor | | | | 0.019 U | 0.019 U |
| Heptachlor epoxide | | | | 0.019 U | 0.019 U |
| Lindane | | | | 0.019 U | 0.019 U |
| Methoxychlor | | | | 0.036 U | 0.036 U |
| PCB-1016 | 0.083 U | 0.083 U | 0.77 UJ | 0.036 UJ | 0.072 UJ |
| PCB-1221 | 0.083 U | 0.083 U | 0.77 U | 0.036 U | 0.072 U |
| PCB-1232 | 0.083 U | 0.083 U | 0.77 U | 0.036 U | 0.072 U |
| PCB-1242 | 0.083 U | 0.083 U | 0.77 U | 0.036 U | 0.072 U |
| PCB-1248 | 0.083 U | 0.083 U | 0.77 U | 0.036 U | 0.072 U |
| PCB-1254 | 0.083 U | 0.083 U | 0.77 U | 0.036 U | 0.072 U |
| PCB-1260 | 0.31 J | 0.53 J | 4.5 J | 0.18 J | 0.2 J |
| Toxaphene | | | | 0.74 U | 0.74 U |
| alpha-BHC | | | | 0.019 U | 0.019 U |
| alpha-Chlordane | | | | 0.019 U | 0.019 U |
| beta-BHC | | | | 0.019 U | 0.019 U |
| delta-BHC | | | | 0.019 U | 0.019 U |
| gamma-Chlordane | | | | 0.019 U | 0.019 U |

Table I-3. Surface Soil Pesticides and PCBs (continued)

| Location | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate |
|---|---|---|---|---|---|
| **Station** | **LL4-077** | **LL4-078** | **LL4-080** | **LL4-081** | **LL4-082** |
| **Sample ID** | **LL40707** | **LL40710** | **LL40714** | **LL40717** | **LL40720** |
| **Customer ID** | **LL4ss-077-0707-SO** | **LL4ss-078-0710-SO** | **LL4ss-080-0714-SO** | **LL4ss-081-0717-SO** | **LL4ss-082-0720-SO** |
| **Date** | **08/22/2001** | **08/22/2001** | **08/22/2001** | **08/22/2001** | **08/22/2001** |
| **Depth (ft)** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** |
| **Field Type** | **Grab** | **Grab** | **Grab** | **Grab** | **Grab** |
| **Analyte (mg/kg)** | | | | | |
| 4,4'-DDD | | | | | |
| 4,4'-DDE | | | | | |
| 4,4'-DDT | | | | | |
| Aldrin | | | | | |
| Dieldrin | | | | | |
| Endosulfan I | | | | | |
| Endosulfan II | | | | | |
| Endosulfan sulfate | | | | | |
| Endrin | | | | | |
| Endrin aldehyde | | | | | |
| Endrin ketone | | | | | |
| Heptachlor | | | | | |
| Heptachlor epoxide | | | | | |
| Lindane | | | | | |
| Methoxychlor | | | | | |
| PCB-1016 | 0.37 UJ | 0.41 UJ | 0.76 UJ | 0.37 UJ | 0.04 UJ |
| PCB-1221 | 0.37 U | 0.41 U | 0.76 U | 0.37 U | 0.04 U |
| PCB-1232 | 0.37 U | 0.41 U | 0.76 U | 0.37 U | 0.04 U |
| PCB-1242 | 0.37 U | 0.41 U | 0.76 U | 0.37 U | 0.04 U |
| PCB-1248 | 0.37 U | 0.41 U | 0.76 U | 0.37 U | 0.04 U |
| PCB-1254 | 0.37 U | 0.41 U | 0.76 U | 2.1 = | 0.04 U |
| PCB-1260 | 1.5 J | 2.6 J | 5.1 J | 0.37 UJ | 0.04 UJ |
| Toxaphene | | | | | |
| alpha-BHC | | | | | |
| alpha-Chlordane | | | | | |
| beta-BHC | | | | | |
| delta-BHC | | | | | |
| gamma-Chlordane | | | | | |

Table I-3. Surface Soil Pesticides and PCBs (continued)

| Location | Explosives Handling Areas Aggregate | Preparation and Receiving Areas Aggregate | Preparation and Receiving Areas Aggregate | Preparation and Receiving Areas Aggregate | Preparation and Receiving Areas Aggregate |
|---|---|---|---|---|---|
| **Station** | LL4-083 | LL4-084 | LL4-085 | LL4-086 | LL4-087 |
| **Sample ID** | LL40723 | LL40726 | LL40729 | LL40732 | LL40735 |
| **Customer ID** | LL4ss-083-0723-SO | LL4ss-084-0726-SO | LL4ss-085-0729-SO | LL4ss-086-0732-SO | LL4ss-087-0735-SO |
| **Date** | 08/22/2001 | 08/24/2001 | 08/23/2001 | 08/23/2001 | 08/24/2001 |
| **Depth (ft)** | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 |
| **Field Type** | Grab | Grab | Grab | Grab | Grab |
| **Analyte (mg/kg)** | | | | | |
| 4,4'-DDD | | | | | |
| 4,4'-DDE | | | | | |
| 4,4'-DDT | | | | | |
| Aldrin | | | | | |
| Dieldrin | | | | | |
| Endosulfan I | | | | | |
| Endosulfan II | | | | | |
| Endosulfan sulfate | | | | | |
| Endrin | | | | | |
| Endrin aldehyde | | | | | |
| Endrin ketone | | | | | |
| Heptachlor | | | | | |
| Heptachlor epoxide | | | | | |
| Lindane | | | | | |
| Methoxychlor | | | | | |
| PCB-1016 | 0.04 U | 0.035 U | 0.039 U | 0.041 U | 0.038 U |
| PCB-1221 | 0.04 U | 0.035 U | 0.039 U | 0.041 U | 0.038 U |
| PCB-1232 | 0.04 U | 0.035 U | 0.039 U | 0.041 U | 0.038 U |
| PCB-1242 | 0.04 U | 0.035 U | 0.039 U | 0.041 U | 0.038 U |
| PCB-1248 | 0.04 U | 0.035 U | 0.039 U | 0.041 U | 0.038 U |
| PCB-1254 | 0.04 U | 0.035 U | 0.039 U | 0.041 U | 0.038 U |
| PCB-1260 | 0.04 U | 0.035 U | 0.039 U | 0.041 U | 0.038 U |
| Toxaphene | | | | | |
| alpha-BHC | | | | | |
| alpha-Chlordane | | | | | |
| beta-BHC | | | | | |
| delta-BHC | | | | | |
| gamma-Chlordane | | | | | |

Table I-3. Surface Soil Pesticides and PCBs (continued)

| Location | Preparation and Receiving Areas Aggregate | Preparation and Receiving Areas Aggregate | Preparation and Receiving Areas Aggregate | Preparation and Receiving Areas Aggregate | Preparation and Receiving Areas Aggregate |
|---|---|---|---|---|---|
| **Station** | LL4-088 | LL4-089 | LL4-090 | LL4-090 | LL4-091 |
| **Sample ID** | LL40738 | LL40741 | LL40744 | LL41139 | LL40747 |
| **Customer ID** | LL4ss-088-0738-SO | LL4ss-089-0741-SO | LL4ss-090-0744-SO | LL4ss-090-1139-SO | LL4ss-091-0747-SO |
| **Date** | 08/22/2001 | 08/23/2001 | 08/23/2001 | 08/23/2001 | 08/23/2001 |
| **Depth (ft)** | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 |
| **Field Type** | Grab | Grab | Grab | Field Duplicate | Grab |
| **Analyte (mg/kg)** | | | | | |
| 4,4'-DDD | | | | | |
| 4,4'-DDE | | | | | |
| 4,4'-DDT | | | | | |
| Aldrin | | | | | |
| Dieldrin | | | | | |
| Endosulfan I | | | | | |
| Endosulfan II | | | | | |
| Endosulfan sulfate | | | | | |
| Endrin | | | | | |
| Endrin aldehyde | | | | | |
| Endrin ketone | | | | | |
| Heptachlor | | | | | |
| Heptachlor epoxide | | | | | |
| Lindane | | | | | |
| Methoxychlor | | | | | |
| PCB-1016 | 0.039 U | 0.039 U | 0.036 U | 0.036 U | 0.042 U |
| PCB-1221 | 0.039 U | 0.039 U | 0.036 U | 0.036 U | 0.042 U |
| PCB-1232 | 0.039 U | 0.039 U | 0.036 U | 0.036 U | 0.042 U |
| PCB-1242 | 0.039 U | 0.039 U | 0.036 U | 0.036 U | 0.042 U |
| PCB-1248 | 0.039 U | 0.039 U | 0.036 U | 0.036 U | 0.042 U |
| PCB-1254 | 0.039 U | 0.039 U | 0.036 U | 0.036 U | 0.042 U |
| PCB-1260 | 0.039 U | 0.039 U | 0.036 U | 0.036 U | 0.042 U |
| Toxaphene | | | | | |
| alpha-BHC | | | | | |
| alpha-Chlordane | | | | | |
| beta-BHC | | | | | |
| delta-BHC | | | | | |
| gamma-Chlordane | | | | | |

Table I-3. Surface Soil Pesticides and PCBs (continued)

| Location | Change Houses Aggregate | Packaging and Shipping Areas Aggregate | Packaging and Shipping Areas Aggregate | Packaging and Shipping Areas Aggregate | Packaging and Shipping Areas Aggregate |
|---|---|---|---|---|---|
| **Station** | LL4-092 | LL4-093 | LL4-094 | LL4-094 | LL4-095 |
| **Sample ID** | LL40750 | LL40753 | LL40756 | LL41146 | LL40759 |
| **Customer ID** | LL4ss-092-0750-SO | LL4ss-093-0753-SO | LL4ss-094-0756-SO | LL4ss-094-1146-SO | LL4ss-095-0759-SO |
| **Date** | 08/14/2001 | 08/22/2001 | 08/22/2001 | 08/22/2001 | 08/22/2001 |
| **Depth (ft)** | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 |
| **Field Type** | Grab | Grab | Grab | Field Duplicate | Grab |
| **Analyte (mg/kg)** | | | | | |
| 4,4'-DDD | | | | | |
| 4,4'-DDE | | | | | |
| 4,4'-DDT | | | | | |
| Aldrin | | | | | |
| Dieldrin | | | | | |
| Endosulfan I | | | | | |
| Endosulfan II | | | | | |
| Endosulfan sulfate | | | | | |
| Endrin | | | | | |
| Endrin aldehyde | | | | | |
| Endrin ketone | | | | | |
| Heptachlor | | | | | |
| Heptachlor epoxide | | | | | |
| Lindane | | | | | |
| Methoxychlor | | | | | |
| PCB-1016 | 0.037 U | 0.041 U | 0.049 U | 0.045 U | 0.08 UJ |
| PCB-1221 | 0.037 U | 0.041 U | 0.049 U | 0.045 U | 0.08 U |
| PCB-1232 | 0.037 U | 0.041 U | 0.049 U | 0.045 U | 0.08 U |
| PCB-1242 | 0.037 U | 0.041 U | 0.049 U | 0.045 U | 0.08 U |
| PCB-1248 | 0.037 U | 0.041 U | 0.049 U | 0.045 U | 0.08 U |
| PCB-1254 | 0.037 U | 0.041 U | 0.049 U | 0.045 U | 0.75 J |
| PCB-1260 | 0.037 U | 0.041 U | 0.049 U | 0.045 U | 0.08 UJ |
| Toxaphene | | | | | |
| alpha-BHC | | | | | |
| alpha-Chlordane | | | | | |
| beta-BHC | | | | | |
| delta-BHC | | | | | |
| gamma-Chlordane | | | | | |

Table I-3. Surface Soil Pesticides and PCBs (continued)

| Location | Packaging and Shipping Areas Aggregate | Packaging and Shipping Areas Aggregate | Packaging and Shipping Areas Aggregate | Packaging and Shipping Areas Aggregate | Packaging and Shipping Areas Aggregate |
|---|---|---|---|---|---|
| **Station** | LL4-096 | LL4-097 | LL4-098 | LL4-100 | LL4-101 |
| **Sample ID** | LL40762 | LL40765 | LL40768 | LL40772 | LL40775 |
| **Customer ID** | LL4ss-096-0762-SO | LL4ss-097-0765-SO | LL4ss-098-0768-SO | LL4ss-100-0772-SO | LL4ss-101-0775-SO |
| **Date** | 08/22/2001 | 08/22/2001 | 08/22/2001 | 08/22/2001 | 08/22/2001 |
| **Depth (ft)** | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 |
| **Field Type** | Grab | Grab | Grab | Grab | Grab |
| **Analyte (mg/kg)** | | | | | |
| 4,4'-DDD | 0.0093 U | | | | |
| 4,4'-DDE | 0.038 = | | | | |
| 4,4'-DDT | 0.0093 U | | | | |
| Aldrin | 0.0093 U | | | | |
| Dieldrin | 0.014 J | | | | |
| Endosulfan I | 0.0093 U | | | | |
| Endosulfan II | 0.0093 U | | | | |
| Endosulfan sulfate | 0.0093 U | | | | |
| Endrin | 0.0093 U | | | | |
| Endrin aldehyde | 0.057 = | | | | |
| Endrin ketone | 0.0093 U | | | | |
| Heptachlor | 0.0093 U | | | | |
| Heptachlor epoxide | 0.0093 U | | | | |
| Lindane | 0.0093 U | | | | |
| Methoxychlor | 0.025 = | | | | |
| PCB-1016 | 0.36 U | 0.073 U | 0.074 U | 0.041 U | 0.04 U |
| PCB-1221 | 0.36 U | 0.073 U | 0.074 U | 0.041 U | 0.04 U |
| PCB-1232 | 0.36 U | 0.073 U | 0.074 U | 0.041 U | 0.04 U |
| PCB-1242 | 0.36 U | 0.073 U | 0.074 U | 0.041 U | 0.04 U |
| PCB-1248 | 0.36 U | 0.073 U | 0.074 U | 0.041 U | 0.04 U |
| PCB-1254 | 0.36 U | 0.68 J | 0.27 = | 0.041 U | 0.04 U |
| PCB-1260 | 1.3 = | 0.073 U | 0.074 U | 0.043 = | 0.04 U |
| Toxaphene | 0.37 UJ | | | | |
| alpha-BHC | 0.0093 U | | | | |
| alpha-Chlordane | 0.014 J | | | | |
| beta-BHC | 0.0093 U | | | | |
| delta-BHC | 0.0093 U | | | | |
| gamma-Chlordane | 0.011 J | | | | |

Table I-3. Surface Soil Pesticides and PCBs (continued)

| Location | Packaging and Shipping Areas Aggregate | Packaging and Shipping Areas Aggregate | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate |
|---|---|---|---|---|---|
| **Station** | LL4-102 | LL4-103 | LL4-104 | LL4-105 | LL4-106 |
| **Sample ID** | LL40778 | LL40781 | LL40784 | LL40787 | LL40790 |
| **Customer ID** | LL4ss-102-0778-SO | LL4ss-103-0781-SO | LL4ss-104-0784-SO | LL4ss-105-0787-SO | LL4ss-106-0790-SO |
| **Date** | 08/22/2001 | 08/22/2001 | 08/14/2001 | 08/13/2001 | 08/14/2001 |
| **Depth (ft)** | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 |
| **Field Type** | Grab | Grab | Grab | Grab | Grab |
| **Analyte (mg/kg)** | | | | | |
| 4,4'-DDD | | | | | |
| 4,4'-DDE | | | | | |
| 4,4'-DDT | | | | | |
| Aldrin | | | | | |
| Dieldrin | | | | | |
| Endosulfan I | | | | | |
| Endosulfan II | | | | | |
| Endosulfan sulfate | | | | | |
| Endrin | | | | | |
| Endrin aldehyde | | | | | |
| Endrin ketone | | | | | |
| Heptachlor | | | | | |
| Heptachlor epoxide | | | | | |
| Lindane | | | | | |
| Methoxychlor | | | | | |
| PCB-1016 | 0.041 U | 0.045 U | 0.41 U | 0.4 U | 0.04 U |
| PCB-1221 | 0.041 U | 0.045 U | 0.41 U | 0.4 U | 0.04 U |
| PCB-1232 | 0.041 U | 0.045 U | 0.41 U | 0.4 U | 0.04 U |
| PCB-1242 | 0.041 U | 0.045 U | 0.41 U | 0.4 U | 0.04 U |
| PCB-1248 | 0.041 U | 0.045 U | 0.41 U | 0.4 U | 0.04 U |
| PCB-1254 | 0.041 U | 0.045 U | 0.41 U | 0.4 U | 0.04 U |
| PCB-1260 | 0.041 U | 0.045 U | 2.1 = | 1.7 = | 0.04 U |
| Toxaphene | | | | | |
| alpha-BHC | | | | | |
| alpha-Chlordane | | | | | |
| beta-BHC | | | | | |
| delta-BHC | | | | | |
| gamma-Chlordane | | | | | |

Table I-3. Surface Soil Pesticides and PCBs (continued)

| Location | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate |
|---|---|---|---|---|---|
| **Station** | **LL4-106** | **LL4-107** | **LL4-110** | **LL4-111** | **LL4-112** |
| **Sample ID** | **LL41147** | **LL40793** | **LL40798** | **LL40801** | **LL40804** |
| **Customer ID** | **LL4ss-106-1147-SO** | **LL4ss-107-0793-SO** | **LL4ss-110-0798-SO** | **LL4ss-111-0801-SO** | **LL4ss-112-0804-SO** |
| **Date** | **08/14/2001** | **08/12/2001** | **08/12/2001** | **08/12/2001** | **08/21/2001** |
| **Depth (ft)** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** |
| **Field Type** | **Field Duplicate** | **Grab** | **Grab** | **Grab** | **Grab** |
| **Analyte (mg/kg)** | | | | | |
| 4,4'-DDD | | | 0.005 U | | |
| 4,4'-DDE | | | 0.005 U | | |
| 4,4'-DDT | | | 0.005 U | | |
| Aldrin | | | 0.005 U | | |
| Dieldrin | | | 0.005 U | | |
| Endosulfan I | | | 0.005 U | | |
| Endosulfan II | | | 0.005 U | | |
| Endosulfan sulfate | | | 0.005 U | | |
| Endrin | | | 0.005 UJ | | |
| Endrin aldehyde | | | 0.005 U | | |
| Endrin ketone | | | 0.005 U | | |
| Heptachlor | | | 0.005 U | | |
| Heptachlor epoxide | | | 0.005 U | | |
| Lindane | | | 0.005 U | | |
| Methoxychlor | | | 0.0097 U | | |
| PCB-1016 | 0.04 U | 0.036 U | 0.049 U | 0.041 U | 0.039 UJ |
| PCB-1221 | 0.04 U | 0.036 U | 0.049 U | 0.041 U | 0.039 U |
| PCB-1232 | 0.04 U | 0.036 U | 0.049 U | 0.041 U | 0.039 U |
| PCB-1242 | 0.04 U | 0.036 U | 0.049 U | 0.041 U | 0.039 U |
| PCB-1248 | 0.04 U | 0.036 U | 0.049 U | 0.041 U | 0.039 U |
| PCB-1254 | 0.04 U | 0.036 U | 0.049 U | 0.041 U | 0.039 U |
| PCB-1260 | 0.04 U | 0.036 U | 0.049 U | 0.041 U | 0.039 UJ |
| Toxaphene | | | 0.2 U | | |
| alpha-BHC | | | 0.005 U | | |
| alpha-Chlordane | | | 0.005 U | | |
| beta-BHC | | | 0.005 U | | |
| delta-BHC | | | 0.005 U | | |
| gamma-Chlordane | | | 0.005 U | | |

Table I-3. Surface Soil Pesticides and PCBs (continued)

| Location | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate |
|---|---|---|---|---|---|
| **Station** | LL4-113 | LL4-114 | LL4-115 | LL4-116 | LL4-116 |
| **Sample ID** | LL40807 | LL40810 | LL40813 | LL40816 | LL41141 |
| **Customer ID** | LL4ss-113-0807-SO | LL4ss-114-0810-SO | LL4ss-115-0813-SO | LL4ss-116-0816-SO | LL4ss-116-1141-SO |
| **Date** | 08/21/2001 | 08/21/2001 | 08/14/2001 | 08/14/2001 | 08/14/2001 |
| **Depth (ft)** | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 |
| **Field Type** | Grab | Grab | Grab | Grab | Field Duplicate |
| **Analyte (mg/kg)** | | | | | |
| 4,4'-DDD | 0.004 U | | | | |
| 4,4'-DDE | 0.004 U | | | | |
| 4,4'-DDT | 0.004 U | | | | |
| Aldrin | 0.004 U | | | | |
| Dieldrin | 0.004 U | | | | |
| Endosulfan I | 0.004 U | | | | |
| Endosulfan II | 0.004 U | | | | |
| Endosulfan sulfate | 0.004 U | | | | |
| Endrin | 0.004 UJ | | | | |
| Endrin aldehyde | 0.004 U | | | | |
| Endrin ketone | 0.004 U | | | | |
| Heptachlor | 0.004 U | | | | |
| Heptachlor epoxide | 0.004 U | | | | |
| Lindane | 0.004 U | | | | |
| Methoxychlor | 0.0078 U | | | | |
| PCB-1016 | 0.039 UJ | 0.038 UJ | 0.037 U | 0.037 U | 0.037 U |
| PCB-1221 | 0.039 U | 0.038 U | 0.037 U | 0.037 U | 0.037 U |
| PCB-1232 | 0.039 U | 0.038 U | 0.037 U | 0.037 U | 0.037 U |
| PCB-1242 | 0.039 U | 0.038 U | 0.037 U | 0.037 U | 0.037 U |
| PCB-1248 | 0.039 U | 0.038 U | 0.037 U | 0.037 U | 0.037 U |
| PCB-1254 | 0.039 U | 0.038 U | 0.056 J | 0.037 U | 0.037 U |
| PCB-1260 | 0.039 UJ | 0.19 J | 0.037 U | 0.037 U | 0.037 U |
| Toxaphene | 0.16 U | | | | |
| alpha-BHC | 0.004 U | | | | |
| alpha-Chlordane | 0.004 U | | | | |
| beta-BHC | 0.004 U | | | | |
| delta-BHC | 0.004 U | | | | |
| gamma-Chlordane | 0.004 U | | | | |

Table I-3. Surface Soil Pesticides and PCBs (continued)

| Location | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate | Preparation and Receiving Areas Aggregate |
|---|---|---|---|---|---|
| **Station** | LL4-117 | LL4-118 | LL4-121 | LL4-122 | LL4-126 |
| **Sample ID** | LL40819 | LL40822 | LL40827 | LL40830 | LL40836 |
| **Customer ID** | LL4ss-117-0819-SO | LL4ss-118-0822-SO | LL4ss-121-0827-SO | LL4ss-122-0830-SO | LL4ss-126-0836-SO |
| **Date** | 08/21/2001 | 08/21/2001 | 08/21/2001 | 08/21/2001 | 08/22/2001 |
| **Depth (ft)** | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 |
| **Field Type** | Grab | Grab | Grab | Grab | Grab |
| **Analyte (mg/kg)** | | | | | |
| 4,4'-DDD | 0.0042 U | | | | 0.0023 U |
| 4,4'-DDE | 0.049 J | | | | 0.0023 U |
| 4,4'-DDT | 0.0042 U | | | | 0.0023 U |
| Aldrin | 0.0042 U | | | | 0.0023 U |
| Dieldrin | 0.025 J | | | | 0.0023 U |
| Endosulfan I | 0.0042 U | | | | 0.0023 U |
| Endosulfan II | 0.0042 U | | | | 0.0023 U |
| Endosulfan sulfate | 0.0042 U | | | | 0.0023 U |
| Endrin | 0.0042 UJ | | | | 0.0023 U |
| Endrin aldehyde | 0.053 = | | | | 0.0023 U |
| Endrin ketone | 0.0042 U | | | | 0.0023 U |
| Heptachlor | 0.0071 J | | | | 0.0023 U |
| Heptachlor epoxide | 0.0042 U | | | | 0.0023 U |
| Lindane | 0.0042 U | | | | 0.0023 U |
| Methoxychlor | 0.018 = | | | | 0.0045 U |
| PCB-1016 | 0.41 U | 0.38 U | 0.038 U | 0.036 UJ | 0.045 U |
| PCB-1221 | 0.41 U | 0.38 U | 0.038 U | 0.036 U | 0.045 U |
| PCB-1232 | 0.41 U | 0.38 U | 0.038 U | 0.036 U | 0.045 U |
| PCB-1242 | 0.41 U | 0.38 U | 0.038 U | 0.036 U | 0.045 U |
| PCB-1248 | 0.41 U | 0.38 U | 0.038 U | 0.036 U | 0.045 U |
| PCB-1254 | 2.9 = | 0.38 U | 0.038 U | 0.036 U | 0.045 U |
| PCB-1260 | 0.41 R | 2.3 J | 0.038 R | 0.036 UJ | 0.045 U |
| Toxaphene | 0.17 U | | | | 0.091 UJ |
| alpha-BHC | 0.0042 U | | | | 0.0023 U |
| alpha-Chlordane | 0.0042 U | | | | 0.0023 U |
| beta-BHC | 0.0042 U | | | | 0.0023 U |
| delta-BHC | 0.0042 R | | | | 0.0023 U |
| gamma-Chlordane | 0.017 J | | | | 0.0023 U |

Table I-3. Surface Soil Pesticides and PCBs (continued)

| Location | Preparation and Receiving Areas Aggregate | Preparation and Receiving Areas Aggregate | Preparation and Receiving Areas Aggregate | Preparation and Receiving Areas Aggregate | Preparation and Receiving Areas Aggregate |
|---|---|---|---|---|---|
| **Station** | LL4-127 | LL4-128 | LL4-130 | LL4-131 | LL4-131 |
| **Sample ID** | LL40839 | LL40842 | LL40846 | LL40849 | LL41143 |
| **Customer ID** | LL4ss-127-0839-SO | LL4ss-128-0842-SO | LL4ss-130-0846-SO | LL4ss-131-0849-SO | LL4ss-131-1143-SO |
| **Date** | 08/20/2001 | 08/20/2001 | 08/14/2001 | 08/14/2001 | 08/14/2001 |
| **Depth (ft)** | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 |
| **Field Type** | Grab | Grab | Grab | Grab | Field Duplicate |
| **Analyte (mg/kg)** | | | | | |
| 4,4'-DDD | | | 0.039 U | | |
| 4,4'-DDE | | | 0.039 U | | |
| 4,4'-DDT | | | 0.039 U | | |
| Aldrin | | | 0.039 U | | |
| Dieldrin | | | 0.039 U | | |
| Endosulfan I | | | 0.039 U | | |
| Endosulfan II | | | 0.039 U | | |
| Endosulfan sulfate | | | 0.039 U | | |
| Endrin | | | 0.039 UJ | | |
| Endrin aldehyde | | | 0.039 U | | |
| Endrin ketone | | | 0.039 U | | |
| Heptachlor | | | 0.039 U | | |
| Heptachlor epoxide | | | 0.039 U | | |
| Lindane | | | 0.039 U | | |
| Methoxychlor | | | 0.075 U | | |
| PCB-1016 | 0.72 U | 0.041 U | 0.038 U | 0.077 U | 0.077 U |
| PCB-1221 | 0.72 U | 0.041 U | 0.038 U | 0.077 U | 0.077 U |
| PCB-1232 | 0.72 U | 0.041 U | 0.038 U | 0.077 U | 0.077 U |
| PCB-1242 | 0.72 U | 0.041 U | 0.038 U | 0.077 U | 0.077 U |
| PCB-1248 | 0.72 U | 0.041 U | 0.038 U | 0.077 U | 0.077 U |
| PCB-1254 | 0.72 U | 0.041 U | 0.36 J | 0.64 J | 0.67 = |
| PCB-1260 | 5.7 J | 0.041 R | 0.038 U | 0.077 U | 0.077 U |
| Toxaphene | | | 1.5 U | | |
| alpha-BHC | | | 0.039 U | | |
| alpha-Chlordane | | | 0.039 U | | |
| beta-BHC | | | 0.039 U | | |
| delta-BHC | | | 0.039 U | | |
| gamma-Chlordane | | | 0.039 U | | |

Table I-3. Surface Soil Pesticides and PCBs (continued)

| Location | Preparation and Receiving Areas Aggregate | Preparation and Receiving Areas Aggregate | Change Houses Aggregate | Change Houses Aggregate | Perimeter Area Aggregate |
|---|---|---|---|---|---|
| **Station** | LL4-132 | LL4-133 | LL4-136 | LL4-137 | LL4-140 |
| **Sample ID** | LL40852 | LL40855 | LL40860 | LL40863 | LL40872 |
| **Customer ID** | LL4ss-132-0852-SO | LL4ss-133-0855-SO | LL4ss-136-0860-SO | LL4ss-137-0863-SO | LL4ss-140-0872-SO |
| **Date** | 08/14/2001 | 08/14/2001 | 08/14/2001 | 08/14/2001 | 08/26/2001 |
| **Depth (ft)** | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 |
| **Field Type** | Grab | Grab | Grab | Grab | Grab |
| **Analyte (mg/kg)** | | | | | |
| 4,4'-DDD | | | | | |
| 4,4'-DDE | | | | | |
| 4,4'-DDT | | | | | |
| Aldrin | | | | | |
| Dieldrin | | | | | |
| Endosulfan I | | | | | |
| Endosulfan II | | | | | |
| Endosulfan sulfate | | | | | |
| Endrin | | | | | |
| Endrin aldehyde | | | | | |
| Endrin ketone | | | | | |
| Heptachlor | | | | | |
| Heptachlor epoxide | | | | | |
| Lindane | | | | | |
| Methoxychlor | | | | | |
| PCB-1016 | 0.041 U | 3.7 U | 0.038 U | 0.038 U | 0.038 U |
| PCB-1221 | 0.041 U | 3.7 U | 0.038 U | 0.038 U | 0.038 U |
| PCB-1232 | 0.041 U | 3.7 U | 0.038 U | 0.038 U | 0.038 U |
| PCB-1242 | 0.041 U | 3.7 U | 0.038 U | 0.038 U | 0.038 U |
| PCB-1248 | 0.041 U | 3.7 U | 0.038 U | 0.038 U | 0.038 U |
| PCB-1254 | 0.041 U | 48 = | 0.038 U | 0.038 U | 0.038 U |
| PCB-1260 | 0.041 U | 3.7 U | 0.038 U | 0.038 U | 0.038 U |
| Toxaphene | | | | | |
| alpha-BHC | | | | | |
| alpha-Chlordane | | | | | |
| beta-BHC | | | | | |
| delta-BHC | | | | | |
| gamma-Chlordane | | | | | |

Table I-3. Surface Soil Pesticides and PCBs (continued)

| Location | Change Houses Aggregate | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate | Perimeter Area Aggregate |
|---|---|---|---|---|---|
| **Station** | **LL4-141** | **LL4-142** | **LL4-142** | **LL4-143** | **LL4-157** |
| **Sample ID** | **LL40875** | **LL40878** | **LL41142** | **LL40881** | **LL40909** |
| **Customer ID** | **LL4ss-141-0875-SO** | **LL4ss-142-0878-SO** | **LL4ss-142-1142-SO** | **LL4ss-143-0881-SO** | **LL4ss-157-0909-SO** |
| **Date** | **08/14/2001** | **08/24/2001** | **08/24/2001** | **08/24/2001** | **08/24/2001** |
| **Depth (ft)** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** |
| **Field Type** | **Grab** | **Grab** | **Field Duplicate** | **Grab** | **Grab** |
| **Analyte (mg/kg)** | | | | | |
| 4,4'-DDD | | | | | 0.0022 U |
| 4,4'-DDE | | | | | 0.0022 U |
| 4,4'-DDT | | | | | 0.0022 U |
| Aldrin | | | | | 0.0022 U |
| Dieldrin | | | | | 0.0022 U |
| Endosulfan I | | | | | 0.0022 U |
| Endosulfan II | | | | | 0.0022 U |
| Endosulfan sulfate | | | | | 0.0022 U |
| Endrin | | | | | 0.0022 U |
| Endrin aldehyde | | | | | 0.0022 U |
| Endrin ketone | | | | | 0.0022 U |
| Heptachlor | | | | | 0.0022 U |
| Heptachlor epoxide | | | | | 0.0022 U |
| Lindane | | | | | 0.0022 U |
| Methoxychlor | | | | | 0.0044 U |
| PCB-1016 | 0.04 U | 0.19 U | 0.38 U | 0.038 U | 0.044 U |
| PCB-1221 | 0.04 U | 0.19 U | 0.38 U | 0.038 U | 0.044 U |
| PCB-1232 | 0.04 U | 0.19 U | 0.38 U | 0.038 U | 0.044 U |
| PCB-1242 | 0.04 U | 0.19 U | 0.38 U | 0.038 U | 0.044 U |
| PCB-1248 | 0.04 U | 0.19 U | 0.38 U | 0.038 U | 0.044 U |
| PCB-1254 | 0.04 U | 0.19 U | 0.38 U | 0.038 U | 0.044 U |
| PCB-1260 | 0.059 J | 0.48 = | 0.38 U | 0.038 U | 0.044 U |
| Toxaphene | | | | | 0.089 UJ |
| alpha-BHC | | | | | 0.0022 U |
| alpha-Chlordane | | | | | 0.0022 U |
| beta-BHC | | | | | 0.0022 U |
| delta-BHC | | | | | 0.0022 U |
| gamma-Chlordane | | | | | 0.0022 U |

Table I-3. Surface Soil Pesticides and PCBs (continued)

| Location | Explosives Handling Areas Aggregate | Perimeter Area Aggregate | Perimeter Area Aggregate | Perimeter Area Aggregate |
|---|---|---|---|---|
| Station | LL4-158 | LL4-160 | LL4-161 | LL4-162 |
| Sample ID | LL40910 | LL40912 | LL40913 | LL40914 |
| Customer ID | LL4ss-158-0910-SO | LL4ss-160-0912-SO | LL4ss-161-0913-SO | LL4ss-162-0914-SO |
| Date | 08/24/2001 | 08/23/2001 | 08/24/2001 | 08/23/2001 |
| Depth (ft) | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 |
| Field Type | Grab | Grab | Grab | Grab |
| Analyte (mg/kg) | | | | |
| 4,4'-DDD | 0.0098 U | | | |
| 4,4'-DDE | 0.0098 U | | | |
| 4,4'-DDT | 0.0098 U | | | |
| Aldrin | 0.0098 U | | | |
| Dieldrin | 0.0098 U | | | |
| Endosulfan I | 0.0098 U | | | |
| Endosulfan II | 0.0098 U | | | |
| Endosulfan sulfate | 0.0098 U | | | |
| Endrin | 0.0098 U | | | |
| Endrin aldehyde | 0.0098 U | | | |
| Endrin ketone | 0.011 J | | | |
| Heptachlor | 0.0098 U | | | |
| Heptachlor epoxide | 0.0098 U | | | |
| Lindane | 0.0098 U | | | |
| Methoxychlor | 0.019 U | | | |
| PCB-1016 | 0.038 U | 0.04 U | 0.039 U | 0.039 U |
| PCB-1221 | 0.038 U | 0.04 U | 0.039 U | 0.039 U |
| PCB-1232 | 0.038 U | 0.04 U | 0.039 U | 0.039 U |
| PCB-1242 | 0.038 U | 0.04 U | 0.039 U | 0.039 U |
| PCB-1248 | 0.038 U | 0.04 U | 0.039 U | 0.039 U |
| PCB-1254 | 0.038 U | 0.04 U | 0.039 U | 0.039 U |
| PCB-1260 | 0.038 U | 0.04 U | 0.039 U | 0.039 U |
| Toxaphene | 0.39 UJ | | | |
| alpha-BHC | 0.0098 U | | | |
| alpha-Chlordane | 0.0098 U | | | |
| beta-BHC | 0.0098 U | | | |
| delta-BHC | 0.0098 U | | | |
| gamma-Chlordane | 0.0098 U | | | |

= - detected. J - estimated. U - not detected. R - rejected.

Table I-4. Surface Soil Semivolatile Organic Compounds

| Location | Perimeter Area Aggregate | Perimeter Area Aggregate | Perimeter Area Aggregate | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate |
|---|---|---|---|---|---|
| **Station** | **LL4-068** | **LL4-069** | **LL4-070** | **LL4-071** | **LL4-073** |
| **Sample ID** | **LL40680** | **LL40683** | **LL40686** | **LL40689** | **LL40695** |
| **Customer ID** | **LL4ss-068-0680-SO** | **LL4ss-069-0683-SO** | **LL4ss-070-0686-SO** | **LL4ss-071-0689-SO** | **LL4ss-073-0695-SO** |
| **Date** | **08/21/2001** | **08/21/2001** | **08/21/2001** | **08/21/2001** | **08/21/2001** |
| **Depth (ft)** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** |
| **Field Type** | **Grab** | **Grab** | **Grab** | **Grab** | **Grab** |
| **Analyte (mg/kg)** | | | | | |
| 1,2,4-Trichlorobenzene | 0.38 UJ | 0.38 UJ | 0.38 UJ | 0.37 UJ | 0.44 UJ |
| 1,2-Dichlorobenzene | 0.38 UJ | 0.38 UJ | 0.38 UJ | 0.37 UJ | 0.44 UJ |
| 1,3-Dichlorobenzene | 0.38 UJ | 0.38 UJ | 0.38 UJ | 0.37 UJ | 0.44 UJ |
| 1,4-Dichlorobenzene | 0.38 UJ | 0.38 UJ | 0.38 UJ | 0.37 UJ | 0.44 UJ |
| 2,4,5-Trichlorophenol | 0.38 UJ | 0.38 UJ | 0.38 UJ | 0.37 UJ | 0.44 UJ |
| 2,4,6-Trichlorophenol | 0.38 UJ | 0.38 UJ | 0.38 UJ | 0.37 UJ | 0.44 UJ |
| 2,4-Dichlorophenol | 0.38 UJ | 0.38 UJ | 0.38 UJ | 0.37 UJ | 0.44 UJ |
| 2,4-Dimethylphenol | 0.38 UJ | 0.38 UJ | 0.38 UJ | 0.37 UJ | 0.44 UJ |
| 2,4-Dinitrophenol | 0.92 UJ | 0.92 UJ | 0.93 UJ | 0.91 UJ | 1.1 UJ |
| 2,4-Dinitrotoluene | 0.38 UJ | 0.38 UJ | 0.38 UJ | 0.37 UJ | 0.44 UJ |
| 2,6-Dinitrotoluene | 0.38 UJ | 0.38 UJ | 0.38 UJ | 0.37 UJ | 0.44 UJ |
| 2-Chloronaphthalene | 0.38 UJ | 0.38 UJ | 0.38 UJ | 0.37 UJ | 0.44 UJ |
| 2-Chlorophenol | 0.38 UJ | 0.38 UJ | 0.38 UJ | 0.37 UJ | 0.44 UJ |
| 2-Methyl-4,6-dinitrophenol | 0.92 UJ | 0.92 UJ | 0.93 UJ | 0.91 UJ | 1.1 UJ |
| 2-Methylnaphthalene | 0.38 UJ | 0.38 UJ | 0.38 UJ | 0.37 UJ | 0.44 UJ |
| 2-Methylphenol | 0.38 UJ | 0.38 UJ | 0.38 UJ | 0.37 UJ | 0.44 UJ |
| 2-Nitrobenzenamine | 0.92 UJ | 0.92 UJ | 0.93 UJ | 0.91 UJ | 1.1 UJ |
| 2-Nitrophenol | 0.38 UJ | 0.38 UJ | 0.38 UJ | 0.37 UJ | 0.44 UJ |
| 3,3'-Dichlorobenzidine | 0.38 UJ | 0.38 UJ | 0.38 UJ | 0.37 UJ | 0.44 UJ |
| 3-Nitrobenzenamine | 0.92 UJ | 0.92 UJ | 0.93 UJ | 0.91 UJ | 1.1 UJ |
| 4-Bromophenyl phenyl ether | 0.38 UJ | 0.38 UJ | 0.38 UJ | 0.37 UJ | 0.44 UJ |
| 4-Chloro-3-methylphenol | 0.38 UJ | 0.38 UJ | 0.38 UJ | 0.37 UJ | 0.44 UJ |
| 4-Chlorobenzenamine | 0.38 UJ | 0.38 UJ | 0.38 UJ | 0.37 UJ | 0.44 UJ |
| 4-Chlorophenyl phenyl ether | 0.38 UJ | 0.38 UJ | 0.38 UJ | 0.37 UJ | 0.44 UJ |
| 4-Methylphenol | 0.38 UJ | 0.38 UJ | 0.38 UJ | 0.37 UJ | 0.44 UJ |
| 4-Nitrobenzenamine | 0.92 UJ | 0.92 UJ | 0.93 UJ | 0.91 UJ | 1.1 UJ |
| 4-Nitrophenol | 0.92 UJ | 0.92 UJ | 0.93 UJ | 0.91 UJ | 1.1 UJ |
| Acenaphthene | 0.38 UJ | 0.38 UJ | 0.38 UJ | 0.37 UJ | 0.44 UJ |
| Acenaphthylene | 0.38 UJ | 0.38 UJ | 0.38 UJ | 0.37 UJ | 0.44 UJ |
| Anthracene | 0.38 UJ | 0.38 UJ | 0.38 UJ | 0.37 UJ | 0.44 UJ |
| Benz(a)anthracene | 0.11 J | 0.38 UJ | 0.38 UJ | 0.15 J | 0.44 UJ |
| Benzenemethanol | 0.38 UJ | 0.38 UJ | 0.38 UJ | 0.37 UJ | 0.44 UJ |
| Benzo(a)pyrene | 0.14 J | 0.38 UJ | 0.38 UJ | 0.21 J | 0.44 UJ |
| Benzo(b)fluoranthene | 0.16 J | 0.38 UJ | 0.38 UJ | 0.54 J | 0.44 UJ |
| Benzo(ghi)perylene | 0.12 J | 0.38 UJ | 0.38 UJ | 0.17 J | 0.44 UJ |
| Benzo(k)fluoranthene | 0.078 J | 0.38 UJ | 0.38 UJ | 0.21 J | 0.44 UJ |
| Benzoic acid | 1.8 UJ | 1.8 UJ | 1.9 UJ | 1.8 UJ | 2.1 UJ |
| Bis(2-chloroethoxy)methane | 0.38 UJ | 0.38 UJ | 0.38 UJ | 0.37 UJ | 0.44 UJ |
| Bis(2-chloroethyl) ether | 0.38 UJ | 0.38 UJ | 0.38 UJ | 0.37 UJ | 0.44 UJ |
| Bis(2-chloroisopropyl) ether | 0.38 UJ | 0.38 UJ | 0.38 UJ | 0.37 UJ | 0.44 UJ |

Table I-4. Surface Soil Semivolatile Organic Compounds (continued)

| Location | Perimeter Area Aggregate | Perimeter Area Aggregate | Perimeter Area Aggregate | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate |
|---|---|---|---|---|---|
| **Station** | **LL4-068** | **LL4-069** | **LL4-070** | **LL4-071** | **LL4-073** |
| **Sample ID** | **LL40680** | **LL40683** | **LL40686** | **LL40689** | **LL40695** |
| **Customer ID** | **LL4ss-068-0680-SO** | **LL4ss-069-0683-SO** | **LL4ss-070-0686-SO** | **LL4ss-071-0689-SO** | **LL4ss-073-0695-SO** |
| **Date** | **08/21/2001** | **08/21/2001** | **08/21/2001** | **08/21/2001** | **08/21/2001** |
| **Depth (ft)** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** |
| **Field Type** | **Grab** | **Grab** | **Grab** | **Grab** | **Grab** |
| **Analyte (mg/kg)** | | | | | |
| Bis(2-ethylhexyl)phthalate | 0.31 J | 0.12 J | 0.21 J | 0.37 UJ | 0.15 J |
| Butyl benzyl phthalate | 0.38 UJ | 0.38 UJ | 0.38 UJ | 0.37 UJ | 0.44 UJ |
| Carbazole | 0.38 UJ | 0.38 UJ | 0.38 UJ | 0.37 UJ | 0.44 UJ |
| Chrysene | 0.14 J | 0.38 UJ | 0.38 UJ | 0.32 J | 0.44 UJ |
| Di-n-butyl phthalate | 0.38 UJ | 0.38 UJ | 0.38 UJ | 0.37 UJ | 0.44 UJ |
| Di-n-octylphthalate | 0.38 UJ | 0.38 UJ | 0.38 UJ | 0.37 UJ | 0.44 UJ |
| Dibenz(a,h)anthracene | 0.38 UJ | 0.38 UJ | 0.38 UJ | 0.37 UJ | 0.44 UJ |
| Dibenzofuran | 0.38 UJ | 0.38 UJ | 0.38 UJ | 0.37 UJ | 0.44 UJ |
| Diethyl phthalate | 0.38 UJ | 0.38 UJ | 0.38 UJ | 0.37 UJ | 0.44 UJ |
| Dimethyl phthalate | 0.38 UJ | 0.38 UJ | 0.38 UJ | 0.37 UJ | 0.44 UJ |
| Fluoranthene | 0.18 J | 0.38 UJ | 0.085 J | 0.29 J | 0.44 UJ |
| Fluorene | 0.38 UJ | 0.38 UJ | 0.38 UJ | 0.37 UJ | 0.44 UJ |
| Hexachlorobenzene | 0.38 UJ | 0.38 UJ | 0.38 UJ | 0.37 UJ | 0.44 UJ |
| Hexachlorobutadiene | 0.38 UJ | 0.38 UJ | 0.38 UJ | 0.37 UJ | 0.44 UJ |
| Hexachlorocyclopentadiene | 0.38 UJ | 0.38 UJ | 0.38 UJ | 0.37 UJ | 0.44 UJ |
| Hexachloroethane | 0.38 UJ | 0.38 UJ | 0.38 UJ | 0.37 UJ | 0.44 UJ |
| Indeno(1,2,3-cd)pyrene | 0.099 J | 0.38 UJ | 0.38 UJ | 0.15 J | 0.44 UJ |
| Isophorone | 0.38 UJ | 0.38 UJ | 0.38 UJ | 0.37 UJ | 0.44 UJ |
| N-Nitroso-di-n-propylamine | 0.38 UJ | 0.38 UJ | 0.38 UJ | 0.37 UJ | 0.44 UJ |
| N-Nitrosodiphenylamine | 0.38 UJ | 0.38 UJ | 0.38 UJ | 0.37 UJ | 0.44 UJ |
| Naphthalene | 0.38 UJ | 0.38 UJ | 0.38 UJ | 0.37 UJ | 0.44 UJ |
| Nitrobenzene | 0.38 UJ | 0.38 UJ | 0.38 UJ | 0.37 UJ | 0.44 UJ |
| Pentachlorophenol | 0.38 UJ | 0.38 UJ | 0.38 UJ | 0.37 UJ | 0.44 UJ |
| Phenanthrene | 0.38 UJ | 0.38 UJ | 0.38 UJ | 0.37 UJ | 0.44 UJ |
| Phenol | 0.38 UJ | 0.38 UJ | 0.38 UJ | 0.37 UJ | 0.44 UJ |
| Pyrene | 0.16 J | 0.38 UJ | 0.38 UJ | 0.27 J | 0.44 UJ |

Table I-4. Surface Soil Semivolatile Organic Compounds (continued)

| Location | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate |
|---|---|---|---|---|
| Station | LL4-075 | LL4-076 | LL4-076 | LL4-080 |
| Sample ID | LL40701 | LL40704 | LL41138 | LL40714 |
| Customer ID | LL4ss-075-0701-SO | LL4ss-076-0704-SO | LL4ss-076-1138-SO | LL4ss-080-0714-SO |
| Date | 08/22/2001 | 08/22/2001 | 08/22/2001 | 08/22/2001 |
| Depth (ft) | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 |
| Field Type | Grab | Grab | Field Duplicate | Grab |
| Analyte (mg/kg) | | | | |
| 1,2,4-Trichlorobenzene | 0.38 UJ | 0.36 UJ | 0.36 UJ | 0.38 UJ |
| 1,2-Dichlorobenzene | 0.38 UJ | 0.36 UJ | 0.36 UJ | 0.38 UJ |
| 1,3-Dichlorobenzene | 0.38 UJ | 0.36 UJ | 0.36 UJ | 0.38 UJ |
| 1,4-Dichlorobenzene | 0.38 UJ | 0.36 UJ | 0.36 UJ | 0.38 UJ |
| 2,4,5-Trichlorophenol | 0.38 UJ | 0.36 UJ | 0.36 UJ | 0.38 UJ |
| 2,4,6-Trichlorophenol | 0.38 UJ | 0.36 UJ | 0.36 UJ | 0.38 UJ |
| 2,4-Dichlorophenol | 0.38 UJ | 0.36 UJ | 0.36 UJ | 0.38 UJ |
| 2,4-Dimethylphenol | 0.38 UJ | 0.36 UJ | 0.36 UJ | 0.38 UJ |
| 2,4-Dinitrophenol | 0.93 UJ | 0.88 UJ | 0.88 UJ | 0.92 UJ |
| 2,4-Dinitrotoluene | 0.38 UJ | 0.36 UJ | 0.36 UJ | 0.38 UJ |
| 2,6-Dinitrotoluene | 0.38 UJ | 0.36 UJ | 0.36 UJ | 0.38 UJ |
| 2-Chloronaphthalene | 0.38 UJ | 0.36 UJ | 0.36 UJ | 0.38 UJ |
| 2-Chlorophenol | 0.38 UJ | 0.36 UJ | 0.36 UJ | 0.38 UJ |
| 2-Methyl-4,6-dinitrophenol | 0.93 UJ | 0.88 UJ | 0.88 UJ | 0.92 UJ |
| 2-Methylnaphthalene | 0.38 UJ | 0.36 UJ | 0.36 UJ | 0.38 UJ |
| 2-Methylphenol | 0.38 UJ | 0.36 UJ | 0.36 UJ | 0.38 UJ |
| 2-Nitrobenzenamine | 0.93 UJ | 0.88 UJ | 0.88 UJ | 0.92 UJ |
| 2-Nitrophenol | 0.38 UJ | 0.36 UJ | 0.36 UJ | 0.38 UJ |
| 3,3'-Dichlorobenzidine | 0.38 UJ | 0.36 UJ | 0.36 UJ | 0.38 UJ |
| 3-Nitrobenzenamine | 0.93 UJ | 0.88 UJ | 0.88 UJ | 0.92 UJ |
| 4-Bromophenyl phenyl ether | 0.38 UJ | 0.36 UJ | 0.36 UJ | 0.38 UJ |
| 4-Chloro-3-methylphenol | 0.38 UJ | 0.36 UJ | 0.36 UJ | 0.38 UJ |
| 4-Chlorobenzenamine | 0.38 UJ | 0.36 UJ | 0.36 UJ | 0.38 UJ |
| 4-Chlorophenyl phenyl ether | 0.38 UJ | 0.36 UJ | 0.36 UJ | 0.38 UJ |
| 4-Methylphenol | 0.38 UJ | 0.36 UJ | 0.36 UJ | 0.38 UJ |
| 4-Nitrobenzenamine | 0.93 UJ | 0.88 UJ | 0.88 UJ | 0.92 UJ |
| 4-Nitrophenol | 0.93 UJ | 0.88 UJ | 0.88 UJ | 0.92 UJ |
| Acenaphthene | 0.38 UJ | 0.36 UJ | 0.36 UJ | 0.38 UJ |
| Acenaphthylene | 0.38 UJ | 0.36 UJ | 0.36 UJ | 0.38 UJ |
| Anthracene | 0.38 UJ | 0.36 UJ | 0.36 UJ | 0.38 UJ |
| Benz(a)anthracene | 0.12 J | 0.078 J | 0.089 J | 0.083 J |
| Benzenemethanol | 0.38 UJ | 0.36 UJ | 0.36 UJ | 0.38 UJ |
| Benzo(a)pyrene | 0.15 J | 0.19 J | 0.21 J | 0.12 J |
| Benzo(b)fluoranthene | 0.32 J | 0.3 J | 0.35 J | 0.18 J |
| Benzo(ghi)perylene | 0.097 J | 0.23 J | 0.26 J | 0.076 J |
| Benzo(k)fluoranthene | 0.15 J | 0.16 J | 0.17 J | 0.1 J |
| Benzoic acid | 1.9 UJ | 1.8 UJ | 1.8 UJ | 1.8 UJ |
| Bis(2-chloroethoxy)methane | 0.38 UJ | 0.36 UJ | 0.36 UJ | 0.38 UJ |
| Bis(2-chloroethyl) ether | 0.38 UJ | 0.36 UJ | 0.36 UJ | 0.38 UJ |
| Bis(2-chloroisopropyl) ether | 0.38 UJ | 0.36 UJ | 0.36 UJ | 0.38 UJ |

Table I-4. Surface Soil Semivolatile Organic Compounds (continued)

| Location | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate |
|---|---|---|---|---|
| **Station** | **LL4-075** | **LL4-076** | **LL4-076** | **LL4-080** |
| **Sample ID** | **LL40701** | **LL40704** | **LL41138** | **LL40714** |
| **Customer ID** | **LL4ss-075-0701-SO** | **LL4ss-076-0704-SO** | **LL4ss-076-1138-SO** | **LL4ss-080-0714-SO** |
| **Date** | **08/22/2001** | **08/22/2001** | **08/22/2001** | **08/22/2001** |
| **Depth (ft)** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** |
| **Field Type** | **Grab** | **Grab** | **Field Duplicate** | **Grab** |
| **Analyte (mg/kg)** | | | | |
| Bis(2-ethylhexyl)phthalate | 0.13 J | 0.2 J | 0.14 J | 0.38 UJ |
| Butyl benzyl phthalate | 0.38 UJ | 0.36 UJ | 0.36 UJ | 0.38 UJ |
| Carbazole | 0.38 UJ | 0.36 UJ | 0.36 UJ | 0.38 UJ |
| Chrysene | 0.21 J | 0.17 J | 0.18 J | 0.14 J |
| Di-n-butyl phthalate | 0.38 UJ | 0.36 UJ | 0.36 UJ | 0.38 UJ |
| Di-n-octylphthalate | 0.38 UJ | 0.36 UJ | 0.36 UJ | 0.38 UJ |
| Dibenz(a,h)anthracene | 0.38 UJ | 0.36 UJ | 0.065 J | 0.38 UJ |
| Dibenzofuran | 0.38 UJ | 0.36 UJ | 0.36 UJ | 0.38 UJ |
| Diethyl phthalate | 0.38 UJ | 0.36 UJ | 0.36 UJ | 0.38 UJ |
| Dimethyl phthalate | 0.38 UJ | 0.36 UJ | 0.36 UJ | 0.38 UJ |
| Fluoranthene | 0.22 J | 0.13 J | 0.14 J | 0.18 J |
| Fluorene | 0.38 UJ | 0.36 UJ | 0.36 UJ | 0.38 UJ |
| Hexachlorobenzene | 0.38 UJ | 0.36 UJ | 0.36 UJ | 0.38 UJ |
| Hexachlorobutadiene | 0.38 UJ | 0.36 UJ | 0.36 UJ | 0.38 UJ |
| Hexachlorocyclopentadiene | 0.38 UJ | 0.36 UJ | 0.36 UJ | 0.38 UJ |
| Hexachloroethane | 0.38 UJ | 0.36 UJ | 0.36 UJ | 0.38 UJ |
| Indeno(1,2,3-cd)pyrene | 0.098 J | 0.19 J | 0.22 J | 0.082 J |
| Isophorone | 0.38 UJ | 0.36 UJ | 0.36 UJ | 0.38 UJ |
| N-Nitroso-di-n-propylamine | 0.38 UJ | 0.36 UJ | 0.36 UJ | 0.38 UJ |
| N-Nitrosodiphenylamine | 0.38 UJ | 0.36 UJ | 0.36 UJ | 0.38 UJ |
| Naphthalene | 0.38 UJ | 0.36 UJ | 0.36 UJ | 0.38 UJ |
| Nitrobenzene | 0.38 UJ | 0.36 UJ | 0.36 UJ | 0.38 UJ |
| Pentachlorophenol | 0.38 UJ | 0.36 UJ | 0.36 UJ | 0.38 UJ |
| Phenanthrene | 0.38 UJ | 0.36 UJ | 0.36 UJ | 0.38 UJ |
| Phenol | 0.38 UJ | 0.36 UJ | 0.36 UJ | 0.38 UJ |
| Pyrene | 0.2 J | 0.08 J | 0.086 J | 0.12 J |

**Table I-4. Surface Soil Semivolatile Organic Compounds (continued)**

| Location | Preparation and Receiving Areas Aggregate | Preparation and Receiving Areas Aggregate | Packaging and Shipping Areas Aggregate | Packaging and Shipping Areas Aggregate |
|---|---|---|---|---|
| **Station** | **LL4-090** | **LL4-090** | **LL4-093** | **LL4-096** |
| **Sample ID** | **LL40744** | **LL41139** | **LL40753** | **LL40762** |
| **Customer ID** | **LL4ss-090-0744-SO** | **LL4ss-090-1139-SO** | **LL4ss-093-0753-SO** | **LL4ss-096-0762-SO** |
| **Date** | **08/23/2001** | **08/23/2001** | **08/22/2001** | **08/22/2001** |
| **Depth (ft)** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** |
| **Field Type** | **Grab** | **Field Duplicate** | **Grab** | **Grab** |
| **Analyte (mg/kg)** | | | | |
| 1,2,4-Trichlorobenzene | 0.36 UJ | 0.36 UJ | 0.41 UJ | 0.36 UJ |
| 1,2-Dichlorobenzene | 0.36 UJ | 0.36 UJ | 0.41 UJ | 0.36 UJ |
| 1,3-Dichlorobenzene | 0.36 UJ | 0.36 UJ | 0.41 UJ | 0.36 UJ |
| 1,4-Dichlorobenzene | 0.36 UJ | 0.36 UJ | 0.41 UJ | 0.36 UJ |
| 2,4,5-Trichlorophenol | 0.36 UJ | 0.36 UJ | 0.41 UJ | 0.36 UJ |
| 2,4,6-Trichlorophenol | 0.36 UJ | 0.36 UJ | 0.41 UJ | 0.36 UJ |
| 2,4-Dichlorophenol | 0.36 UJ | 0.36 UJ | 0.41 UJ | 0.36 UJ |
| 2,4-Dimethylphenol | 0.36 UJ | 0.36 UJ | 0.41 UJ | 0.36 UJ |
| 2,4-Dinitrophenol | 0.88 UJ | 0.87 UJ | 1 UJ | 0.87 UJ |
| 2,4-Dinitrotoluene | 0.36 UJ | 0.36 UJ | 0.41 UJ | 0.36 UJ |
| 2,6-Dinitrotoluene | 0.36 UJ | 0.36 UJ | 0.41 UJ | 0.36 UJ |
| 2-Chloronaphthalene | 0.36 UJ | 0.36 UJ | 0.41 UJ | 0.36 UJ |
| 2-Chlorophenol | 0.36 UJ | 0.36 UJ | 0.41 UJ | 0.36 UJ |
| 2-Methyl-4,6-dinitrophenol | 0.88 UJ | 0.87 UJ | 1 UJ | 0.87 UJ |
| 2-Methylnaphthalene | 0.36 UJ | 0.36 UJ | 0.41 UJ | 0.36 UJ |
| 2-Methylphenol | 0.36 UJ | 0.36 UJ | 0.41 UJ | 0.36 UJ |
| 2-Nitrobenzenamine | 0.88 UJ | 0.87 UJ | 1 UJ | 0.87 UJ |
| 2-Nitrophenol | 0.36 UJ | 0.36 UJ | 0.41 UJ | 0.36 UJ |
| 3,3'-Dichlorobenzidine | 0.36 UJ | 0.36 UJ | 0.41 UJ | 0.36 UJ |
| 3-Nitrobenzenamine | 0.88 UJ | 0.87 UJ | 1 UJ | 0.87 UJ |
| 4-Bromophenyl phenyl ether | 0.36 UJ | 0.36 UJ | 0.41 UJ | 0.36 UJ |
| 4-Chloro-3-methylphenol | 0.36 UJ | 0.36 UJ | 0.41 UJ | 0.36 UJ |
| 4-Chlorobenzenamine | 0.36 UJ | 0.36 UJ | 0.41 UJ | 0.36 UJ |
| 4-Chlorophenyl phenyl ether | 0.36 UJ | 0.36 UJ | 0.41 UJ | 0.36 UJ |
| 4-Methylphenol | 0.36 UJ | 0.36 UJ | 0.41 UJ | 0.36 UJ |
| 4-Nitrobenzenamine | 0.88 UJ | 0.87 UJ | 1 UJ | 0.87 UJ |
| 4-Nitrophenol | 0.88 UJ | 0.87 UJ | 1 UJ | 0.87 UJ |
| Acenaphthene | 0.36 UJ | 0.36 UJ | 0.41 UJ | 0.36 UJ |
| Acenaphthylene | 0.36 UJ | 0.36 UJ | 0.41 UJ | 0.36 UJ |
| Anthracene | 0.36 UJ | 0.36 UJ | 0.41 UJ | 0.36 UJ |
| Benz(a)anthracene | 0.36 UJ | 0.36 UJ | 0.41 UJ | 0.093 J |
| Benzenemethanol | 0.36 UJ | 0.36 UJ | 0.41 UJ | 0.36 UJ |
| Benzo(a)pyrene | 0.36 UJ | 0.36 UJ | 0.41 UJ | 0.1 J |
| Benzo(b)fluoranthene | 0.36 UJ | 0.36 UJ | 0.1 J | 0.13 J |
| Benzo(ghi)perylene | 0.36 UJ | 0.36 UJ | 0.1 J | 0.066 J |
| Benzo(k)fluoranthene | 0.36 UJ | 0.36 UJ | 0.41 UJ | 0.08 J |
| Benzoic acid | 1.8 UJ | 1.7 UJ | 2 UJ | 1.7 UJ |
| Bis(2-chloroethoxy)methane | 0.36 UJ | 0.36 UJ | 0.41 UJ | 0.36 UJ |
| Bis(2-chloroethyl) ether | 0.36 UJ | 0.36 UJ | 0.41 UJ | 0.36 UJ |
| Bis(2-chloroisopropyl) ether | 0.36 UJ | 0.36 UJ | 0.41 UJ | 0.36 UJ |

**Table I-4. Surface Soil Semivolatile Organic Compounds (continued)**

| Location | Preparation and Receiving Areas Aggregate | Preparation and Receiving Areas Aggregate | Packaging and Shipping Areas Aggregate | Packaging and Shipping Areas Aggregate |
|---|---|---|---|---|
| **Station** | **LL4-090** | **LL4-090** | **LL4-093** | **LL4-096** |
| **Sample ID** | **LL40744** | **LL41139** | **LL40753** | **LL40762** |
| **Customer ID** | **LL4ss-090-0744-SO** | **LL4ss-090-1139-SO** | **LL4ss-093-0753-SO** | **LL4ss-096-0762-SO** |
| **Date** | **08/23/2001** | **08/23/2001** | **08/22/2001** | **08/22/2001** |
| **Depth (ft)** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** |
| **Field Type** | **Grab** | **Field Duplicate** | **Grab** | **Grab** |
| **Analyte (mg/kg)** | | | | |
| Bis(2-ethylhexyl)phthalate | 0.36 UJ | 0.36 UJ | 0.41 UJ | 0.078 J |
| Butyl benzyl phthalate | 0.36 UJ | 0.36 UJ | 0.41 UJ | 0.36 UJ |
| Carbazole | 0.36 UJ | 0.36 UJ | 0.41 UJ | 0.36 UJ |
| Chrysene | 0.36 UJ | 0.36 UJ | 0.087 J | 0.14 J |
| Di-n-butyl phthalate | 0.36 UJ | 0.36 UJ | 0.41 UJ | 0.36 UJ |
| Di-n-octylphthalate | 0.36 UJ | 0.36 UJ | 0.41 UJ | 0.36 UJ |
| Dibenz(a,h)anthracene | 0.36 UJ | 0.36 UJ | 0.41 UJ | 0.36 UJ |
| Dibenzofuran | 0.36 UJ | 0.36 UJ | 0.41 UJ | 0.36 UJ |
| Diethyl phthalate | 0.36 UJ | 0.36 UJ | 0.41 UJ | 0.36 UJ |
| Dimethyl phthalate | 0.36 UJ | 0.36 UJ | 0.41 UJ | 0.36 UJ |
| Fluoranthene | 0.36 UJ | 0.36 UJ | 0.13 J | 0.29 J |
| Fluorene | 0.36 UJ | 0.36 UJ | 0.41 UJ | 0.36 UJ |
| Hexachlorobenzene | 0.36 UJ | 0.36 UJ | 0.41 UJ | 0.36 UJ |
| Hexachlorobutadiene | 0.36 UJ | 0.36 UJ | 0.41 UJ | 0.36 UJ |
| Hexachlorocyclopentadiene | 0.36 UJ | 0.36 UJ | 0.41 UJ | 0.36 UJ |
| Hexachloroethane | 0.36 UJ | 0.36 UJ | 0.41 UJ | 0.36 UJ |
| Indeno(1,2,3-cd)pyrene | 0.36 UJ | 0.36 UJ | 0.41 UJ | 0.36 UJ |
| Isophorone | 0.36 UJ | 0.36 UJ | 0.41 UJ | 0.36 UJ |
| N-Nitroso-di-n-propylamine | 0.36 UJ | 0.36 UJ | 0.41 UJ | 0.36 UJ |
| N-Nitrosodiphenylamine | 0.36 UJ | 0.36 UJ | 0.41 UJ | 0.36 UJ |
| Naphthalene | 0.36 UJ | 0.36 UJ | 0.41 UJ | 0.36 UJ |
| Nitrobenzene | 0.36 UJ | 0.36 UJ | 0.41 UJ | 0.36 UJ |
| Pentachlorophenol | 0.36 UJ | 0.36 UJ | 0.41 UJ | 0.36 UJ |
| Phenanthrene | 0.36 UJ | 0.36 UJ | 0.41 UJ | 0.17 J |
| Phenol | 0.36 UJ | 0.36 UJ | 0.41 UJ | 0.36 UJ |
| Pyrene | 0.36 UJ | 0.36 UJ | 0.41 UJ | 0.18 J |

**Table I-4. Surface Soil Semivolatile Organic Compounds (continued)**

| Location | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate | Preparation and Receiving Areas Aggregate | Preparation and Receiving Areas Aggregate |
|---|---|---|---|---|---|
| **Station** | **LL4-110** | **LL4-113** | **LL4-117** | **LL4-126** | **LL4-130** |
| **Sample ID** | **LL40798** | **LL40807** | **LL40819** | **LL40836** | **LL40846** |
| **Customer ID** | **LL4ss-110-0798-SO** | **LL4ss-113-0807-SO** | **LL4ss-117-0819-SO** | **LL4ss-126-0836-SO** | **LL4ss-130-0846-SO** |
| **Date** | **08/12/2001** | **08/21/2001** | **08/21/2001** | **08/22/2001** | **08/14/2001** |
| **Depth (ft)** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** |
| **Field Type** | **Grab** | **Grab** | **Grab** | **Grab** | **Grab** |
| **Analyte (mg/kg)** | | | | | |
| 1,2,4-Trichlorobenzene | 0.49 UJ | 0.39 UJ | 0.41 UJ | 0.45 UJ | 0.38 UJ |
| 1,2-Dichlorobenzene | 0.49 UJ | 0.39 UJ | 0.41 UJ | 0.45 UJ | 0.38 UJ |
| 1,3-Dichlorobenzene | 0.49 UJ | 0.39 UJ | 0.41 UJ | 0.45 UJ | 0.38 UJ |
| 1,4-Dichlorobenzene | 0.49 UJ | 0.39 UJ | 0.41 UJ | 0.45 UJ | 0.38 UJ |
| 2,4,5-Trichlorophenol | 0.49 UJ | 0.39 UJ | 0.41 UJ | 0.45 UJ | 0.38 UJ |
| 2,4,6-Trichlorophenol | 0.49 UJ | 0.39 UJ | 0.41 UJ | 0.45 UJ | 0.38 UJ |
| 2,4-Dichlorophenol | 0.49 UJ | 0.39 UJ | 0.41 UJ | 0.45 UJ | 0.38 UJ |
| 2,4-Dimethylphenol | 0.49 UJ | 0.39 UJ | 0.41 UJ | 0.45 UJ | 0.38 UJ |
| 2,4-Dinitrophenol | 1.2 UJ | 0.94 UJ | 0.99 UJ | 1.1 UJ | 0.91 UJ |
| 2,4-Dinitrotoluene | 0.49 UJ | 0.39 UJ | 0.41 UJ | 0.45 UJ | 0.38 UJ |
| 2,6-Dinitrotoluene | 0.49 UJ | 0.39 UJ | 0.41 UJ | 0.45 UJ | 0.38 UJ |
| 2-Chloronaphthalene | 0.49 UJ | 0.39 UJ | 0.41 UJ | 0.45 UJ | 0.38 UJ |
| 2-Chlorophenol | 0.49 UJ | 0.39 UJ | 0.41 UJ | 0.45 UJ | 0.38 UJ |
| 2-Methyl-4,6-dinitrophenol | 1.2 UJ | 0.94 UJ | 0.99 UJ | 1.1 UJ | 0.91 UJ |
| 2-Methylnaphthalene | 0.49 UJ | 0.39 UJ | 0.41 UJ | 0.45 UJ | 0.38 UJ |
| 2-Methylphenol | 0.49 UJ | 0.39 UJ | 0.41 UJ | 0.45 UJ | 0.38 UJ |
| 2-Nitrobenzenamine | 1.2 UJ | 0.94 UJ | 0.99 UJ | 1.1 UJ | 0.91 UJ |
| 2-Nitrophenol | 0.49 UJ | 0.39 UJ | 0.41 UJ | 0.45 UJ | 0.38 UJ |
| 3,3'-Dichlorobenzidine | 0.49 UJ | 0.39 UJ | 0.41 UJ | 0.45 UJ | 0.38 UJ |
| 3-Nitrobenzenamine | 1.2 UJ | 0.94 UJ | 0.99 UJ | 1.1 UJ | 0.91 UJ |
| 4-Bromophenyl phenyl ether | 0.49 UJ | 0.39 UJ | 0.41 UJ | 0.45 UJ | 0.38 UJ |
| 4-Chloro-3-methylphenol | 0.49 UJ | 0.39 UJ | 0.41 UJ | 0.45 UJ | 0.38 UJ |
| 4-Chlorobenzenamine | 0.49 UJ | 0.39 UJ | 0.41 UJ | 0.45 UJ | 0.38 UJ |
| 4-Chlorophenyl phenyl ether | 0.49 UJ | 0.39 UJ | 0.41 UJ | 0.45 UJ | 0.38 UJ |
| 4-Methylphenol | 0.49 UJ | 0.39 UJ | 0.41 UJ | 0.45 UJ | 0.38 UJ |
| 4-Nitrobenzenamine | 1.2 UJ | 0.94 UJ | 0.99 UJ | 1.1 UJ | 0.91 UJ |
| 4-Nitrophenol | 1.2 UJ | 0.94 UJ | 0.99 UJ | 1.1 UJ | 0.91 UJ |
| Acenaphthene | 0.49 UJ | 0.39 UJ | 0.41 UJ | 0.45 UJ | 0.38 UJ |
| Acenaphthylene | 0.49 UJ | 0.39 UJ | 0.41 UJ | 0.45 UJ | 0.38 UJ |
| Anthracene | 0.49 UJ | 0.39 UJ | 0.41 UJ | 0.45 UJ | 0.38 UJ |
| Benz(a)anthracene | 0.49 UJ | 0.26 J | 0.41 UJ | 0.45 UJ | 0.38 UJ |
| Benzenemethanol | 0.49 UJ | 0.39 UJ | 0.41 UJ | 0.45 U | 0.38 UJ |
| Benzo(a)pyrene | 0.49 UJ | 0.77 J | 0.41 UJ | 0.45 UJ | 0.38 UJ |
| Benzo(b)fluoranthene | 0.49 UJ | 1.3 J | 0.41 UJ | 0.45 UJ | 0.38 UJ |
| Benzo(ghi)perylene | 0.49 UJ | 2 J | 0.41 UJ | 0.45 UJ | 0.38 UJ |
| Benzo(k)fluoranthene | 0.49 UJ | 0.68 J | 0.41 UJ | 0.45 UJ | 0.38 UJ |
| Benzoic acid | 2.4 UJ | 1.9 UJ | 2 UJ | 2.2 UJ | 1.8 UJ |
| Bis(2-chloroethoxy)methane | 0.49 UJ | 0.39 UJ | 0.41 UJ | 0.45 UJ | 0.38 UJ |
| Bis(2-chloroethyl) ether | 0.49 UJ | 0.39 UJ | 0.41 UJ | 0.45 UJ | 0.38 UJ |
| Bis(2-chloroisopropyl) ether | 0.49 UJ | 0.39 UJ | 0.41 UJ | 0.45 UJ | 0.38 UJ |

**Table I-4. Surface Soil Semivolatile Organic Compounds (continued)**

| Location | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate | Preparation and Receiving Areas Aggregate | Preparation and Receiving Areas Aggregate |
|---|---|---|---|---|---|
| **Station** | **LL4-110** | **LL4-113** | **LL4-117** | **LL4-126** | **LL4-130** |
| **Sample ID** | **LL40798** | **LL40807** | **LL40819** | **LL40836** | **LL40846** |
| **Customer ID** | **LL4ss-110-0798-SO** | **LL4ss-113-0807-SO** | **LL4ss-117-0819-SO** | **LL4ss-126-0836-SO** | **LL4ss-130-0846-SO** |
| **Date** | **08/12/2001** | **08/21/2001** | **08/21/2001** | **08/22/2001** | **08/14/2001** |
| **Depth (ft)** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** |
| **Field Type** | **Grab** | **Grab** | **Grab** | **Grab** | **Grab** |
| **Analyte (mg/kg)** | | | | | |
| Bis(2-ethylhexyl)phthalate | 0.14 J | 0.39 UJ | 0.093 J | 0.45 UJ | 0.38 UJ |
| Butyl benzyl phthalate | 0.49 UJ | 0.39 UJ | 0.41 UJ | 0.45 UJ | 0.38 UJ |
| Carbazole | 0.49 UJ | 0.39 UJ | 0.41 UJ | 0.45 UJ | 0.38 UJ |
| Chrysene | 0.49 UJ | 0.84 J | 0.41 UJ | 0.45 UJ | 0.38 UJ |
| Di-n-butyl phthalate | 0.49 UJ | 0.39 UJ | 0.41 UJ | 0.45 UJ | 0.38 UJ |
| Di-n-octylphthalate | 0.49 UJ | 0.39 UJ | 0.41 UJ | 0.45 UJ | 0.38 UJ |
| Dibenz(a,h)anthracene | 0.49 UJ | 0.38 J | 0.41 UJ | 0.45 UJ | 0.38 UJ |
| Dibenzofuran | 0.49 UJ | 0.39 UJ | 0.41 UJ | 0.45 UJ | 0.38 UJ |
| Diethyl phthalate | 0.49 UJ | 0.39 UJ | 0.41 UJ | 0.45 UJ | 0.38 UJ |
| Dimethyl phthalate | 0.49 UJ | 0.39 UJ | 0.41 UJ | 0.45 UJ | 0.38 UJ |
| Fluoranthene | 0.49 UJ | 0.29 J | 0.13 J | 0.45 UJ | 0.07 J |
| Fluorene | 0.49 UJ | 0.39 UJ | 0.41 UJ | 0.45 UJ | 0.38 UJ |
| Hexachlorobenzene | 0.49 UJ | 0.39 UJ | 0.41 UJ | 0.45 UJ | 0.38 UJ |
| Hexachlorobutadiene | 0.49 UJ | 0.39 UJ | 0.41 UJ | 0.45 UJ | 0.38 UJ |
| Hexachlorocyclopentadiene | 0.49 UJ | 0.39 UJ | 0.41 UJ | 0.45 UJ | 0.38 UJ |
| Hexachloroethane | 0.49 UJ | 0.39 UJ | 0.41 UJ | 0.45 UJ | 0.38 UJ |
| Indeno(1,2,3-cd)pyrene | 0.49 UJ | 1.4 J | 0.41 UJ | 0.45 UJ | 0.38 UJ |
| Isophorone | 0.49 UJ | 0.39 UJ | 0.41 UJ | 0.45 UJ | 0.38 UJ |
| N-Nitroso-di-n-propylamine | 0.49 UJ | 0.39 UJ | 0.41 UJ | 0.45 UJ | 0.38 UJ |
| N-Nitrosodiphenylamine | 0.49 UJ | 0.39 UJ | 0.41 UJ | 0.45 UJ | 0.38 UJ |
| Naphthalene | 0.49 UJ | 0.058 J | 0.41 UJ | 0.45 UJ | 0.38 UJ |
| Nitrobenzene | 0.49 UJ | 0.39 UJ | 0.41 UJ | 0.45 UJ | 0.38 UJ |
| Pentachlorophenol | 0.49 UJ | 0.39 UJ | 0.41 UJ | 0.45 UJ | 0.38 UJ |
| Phenanthrene | 0.49 UJ | 0.32 J | 0.41 UJ | 0.45 UJ | 0.06 J |
| Phenol | 0.49 UJ | 0.39 UJ | 0.41 UJ | 0.45 UJ | 0.38 UJ |
| Pyrene | 0.49 UJ | 0.34 J | 0.41 UJ | 0.45 UJ | 0.069 J |

**Table I-4. Surface Soil Semivolatile Organic Compounds (continued)**

| Location | Perimeter Area Aggregate | Change Houses Aggregate | Perimeter Area Aggregate | Explosives Handling Areas Aggregate |
|---|---|---|---|---|
| **Station** | **LL4-140** | **LL4-141** | **LL4-157** | **LL4-158** |
| **Sample ID** | **LL40872** | **LL40875** | **LL40909** | **LL40910** |
| **Customer ID** | **LL4ss-140-0872-SO** | **LL4ss-141-0875-SO** | **LL4ss-157-0909-SO** | **LL4ss-158-0910-SO** |
| **Date** | **08/26/2001** | **08/14/2001** | **08/24/2001** | **08/24/2001** |
| **Depth (ft)** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** |
| **Field Type** | **Grab** | **Grab** | **Grab** | **Grab** |
| **Analyte (mg/kg)** | | | | |
| 1,2,4-Trichlorobenzene | 0.38 UJ | 0.4 UJ | 0.44 UJ | 0.38 UJ |
| 1,2-Dichlorobenzene | 0.38 UJ | 0.4 UJ | 0.44 UJ | 0.38 UJ |
| 1,3-Dichlorobenzene | 0.38 UJ | 0.4 UJ | 0.44 UJ | 0.38 UJ |
| 1,4-Dichlorobenzene | 0.38 UJ | 0.4 UJ | 0.44 UJ | 0.38 UJ |
| 2,4,5-Trichlorophenol | 0.38 UJ | 0.4 UJ | 0.44 UJ | 0.38 UJ |
| 2,4,6-Trichlorophenol | 0.38 UJ | 0.4 UJ | 0.44 UJ | 0.38 UJ |
| 2,4-Dichlorophenol | 0.38 UJ | 0.4 UJ | 0.44 UJ | 0.38 UJ |
| 2,4-Dimethylphenol | 0.38 UJ | 0.4 UJ | 0.44 UJ | 0.38 UJ |
| 2,4-Dinitrophenol | 0.91 UJ | 0.97 UJ | 1.1 UJ | 0.93 UJ |
| 2,4-Dinitrotoluene | 0.38 UJ | 0.4 UJ | 0.44 UJ | 0.38 UJ |
| 2,6-Dinitrotoluene | 0.38 UJ | 0.4 UJ | 0.44 UJ | 0.38 UJ |
| 2-Chloronaphthalene | 0.38 UJ | 0.4 UJ | 0.44 UJ | 0.38 UJ |
| 2-Chlorophenol | 0.38 UJ | 0.4 UJ | 0.44 UJ | 0.38 UJ |
| 2-Methyl-4,6-dinitrophenol | 0.91 UJ | 0.97 UJ | 1.1 UJ | 0.93 UJ |
| 2-Methylnaphthalene | 0.38 UJ | 0.27 J | 0.44 UJ | 0.38 UJ |
| 2-Methylphenol | 0.38 UJ | 0.4 UJ | 0.44 UJ | 0.38 UJ |
| 2-Nitrobenzenamine | 0.91 UJ | 0.97 UJ | 1.1 UJ | 0.93 UJ |
| 2-Nitrophenol | 0.38 UJ | 0.4 UJ | 0.44 UJ | 0.38 UJ |
| 3,3'-Dichlorobenzidine | 0.38 UJ | 0.4 UJ | 0.44 UJ | 0.38 UJ |
| 3-Nitrobenzenamine | 0.91 UJ | 0.97 UJ | 1.1 UJ | 0.93 UJ |
| 4-Bromophenyl phenyl ether | 0.38 UJ | 0.4 UJ | 0.44 UJ | 0.38 UJ |
| 4-Chloro-3-methylphenol | 0.38 UJ | 0.4 UJ | 0.44 UJ | 0.38 UJ |
| 4-Chlorobenzenamine | 0.38 UJ | 0.4 UJ | 0.44 UJ | 0.38 UJ |
| 4-Chlorophenyl phenyl ether | 0.38 UJ | 0.4 UJ | 0.44 UJ | 0.38 UJ |
| 4-Methylphenol | 0.38 UJ | 0.4 UJ | 0.44 UJ | 0.38 UJ |
| 4-Nitrobenzenamine | 0.91 UJ | 0.97 UJ | 1.1 UJ | 0.93 UJ |
| 4-Nitrophenol | 0.91 UJ | 0.97 UJ | 1.1 UJ | 0.93 UJ |
| Acenaphthene | 0.38 UJ | 0.4 UJ | 0.44 UJ | 0.38 UJ |
| Acenaphthylene | 0.38 UJ | 0.4 UJ | 0.44 UJ | 0.38 UJ |
| Anthracene | 0.38 UJ | 0.075 J | 0.44 UJ | 0.15 J |
| Benz(a)anthracene | 0.38 UJ | 0.53 J | 0.44 UJ | 0.99 J |
| Benzenemethanol | 0.38 UJ | 0.4 UJ | 0.44 UJ | 0.38 UJ |
| Benzo(a)pyrene | 0.38 UJ | 0.5 J | 0.44 UJ | 1.9 UJ |
| Benzo(b)fluoranthene | 0.38 UJ | 0.67 J | 0.44 UJ | 5.4 J |
| Benzo(ghi)perylene | 0.38 UJ | 0.31 J | 0.44 UJ | 2.9 UJ |
| Benzo(k)fluoranthene | 0.38 UJ | 0.29 J | 0.44 UJ | 1.3 UJ |
| Benzoic acid | 1.8 UJ | 1.9 UJ | 2.1 UJ | 1.9 UJ |
| Bis(2-chloroethoxy)methane | 0.38 UJ | 0.4 UJ | 0.44 UJ | 0.38 UJ |
| Bis(2-chloroethyl) ether | 0.38 UJ | 0.4 UJ | 0.44 UJ | 0.38 UJ |
| Bis(2-chloroisopropyl) ether | 0.38 UJ | 0.4 UJ | 0.44 UJ | 0.38 UJ |

**Table I-4. Surface Soil Semivolatile Organic Compounds (continued)**

| Location | Perimeter Area Aggregate | Change Houses Aggregate | Perimeter Area Aggregate | Explosives Handling Areas Aggregate |
|---|---|---|---|---|
| **Station** | **LL4-140** | **LL4-141** | **LL4-157** | **LL4-158** |
| **Sample ID** | **LL40872** | **LL40875** | **LL40909** | **LL40910** |
| **Customer ID** | **LL4ss-140-0872-SO** | **LL4ss-141-0875-SO** | **LL4ss-157-0909-SO** | **LL4ss-158-0910-SO** |
| **Date** | **08/26/2001** | **08/14/2001** | **08/24/2001** | **08/24/2001** |
| **Depth (ft)** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** |
| **Field Type** | **Grab** | **Grab** | **Grab** | **Grab** |
| **Analyte (mg/kg)** | | | | |
| Bis(2-ethylhexyl)phthalate | 0.38 UJ | 0.4 UJ | 0.16 J | 0.38 UJ |
| Butyl benzyl phthalate | 0.38 UJ | 0.4 UJ | 0.44 UJ | 0.38 UJ |
| Carbazole | 0.38 UJ | 0.065 J | 0.44 UJ | 0.38 UJ |
| Chrysene | 0.38 UJ | 0.62 J | 0.44 UJ | 3 J |
| Di-n-butyl phthalate | 0.38 UJ | 0.4 UJ | 0.44 UJ | 0.38 UJ |
| Di-n-octylphthalate | 0.38 UJ | 0.4 UJ | 0.44 UJ | 0.38 UJ |
| Dibenz(a,h)anthracene | 0.38 UJ | 0.085 J | 0.44 UJ | 0.75 UJ |
| Dibenzofuran | 0.38 UJ | 0.069 J | 0.44 UJ | 0.38 UJ |
| Diethyl phthalate | 0.38 UJ | 0.4 UJ | 0.44 UJ | 0.38 UJ |
| Dimethyl phthalate | 0.38 UJ | 0.4 UJ | 0.44 UJ | 0.38 UJ |
| Fluoranthene | 0.38 UJ | 0.93 J | 0.44 UJ | 0.74 J |
| Fluorene | 0.38 UJ | 0.4 UJ | 0.44 UJ | 0.38 UJ |
| Hexachlorobenzene | 0.38 UJ | 0.4 UJ | 0.44 UJ | 0.38 UJ |
| Hexachlorobutadiene | 0.38 UJ | 0.4 UJ | 0.44 UJ | 0.38 UJ |
| Hexachlorocyclopentadiene | 0.38 UJ | 0.4 UJ | 0.44 UJ | 0.38 UJ |
| Hexachloroethane | 0.38 UJ | 0.4 UJ | 0.44 UJ | 0.38 UJ |
| Indeno(1,2,3-cd)pyrene | 0.38 UJ | 0.3 J | 0.44 UJ | 2.7 UJ |
| Isophorone | 0.38 UJ | 0.4 UJ | 0.44 UJ | 0.38 UJ |
| N-Nitroso-di-n-propylamine | 0.38 UJ | 0.4 UJ | 0.44 UJ | 0.38 UJ |
| N-Nitrosodiphenylamine | 0.38 UJ | 0.4 UJ | 0.44 UJ | 0.38 UJ |
| Naphthalene | 0.38 UJ | 0.18 J | 0.44 UJ | 0.38 UJ |
| Nitrobenzene | 0.38 UJ | 0.4 UJ | 0.44 UJ | 0.38 UJ |
| Pentachlorophenol | 0.38 UJ | 0.4 UJ | 0.44 UJ | 0.38 UJ |
| Phenanthrene | 0.38 UJ | 0.47 J | 0.44 UJ | 0.38 UJ |
| Phenol | 0.38 UJ | 0.4 UJ | 0.44 UJ | 0.38 UJ |
| Pyrene | 0.38 UJ | 0.87 J | 0.44 UJ | 1.3 J |

= - detected, J - estimated, U - not detected, R - rejected.

**Table I-5. Surface Soil Volatile Organic Compounds**

| Location | Perimeter Area Aggregate | Perimeter Area Aggregate | Perimeter Area Aggregate | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate |
|---|---|---|---|---|---|
| **Station** | **LL4-068** | **LL4-069** | **LL4-070** | **LL4-071** | **LL4-073** |
| **Sample ID** | **LL40680** | **LL40683** | **LL40686** | **LL40689** | **LL40695** |
| **Customer ID** | **LL4ss-068-0680-SO** | **LL4ss-069-0683-SO** | **LL4ss-070-0686-SO** | **LL4ss-071-0689-SO** | **LL4ss-073-0695-SO** |
| **Date** | **08/21/2001** | **08/21/2001** | **08/21/2001** | **08/21/2001** | **08/21/2001** |
| **Depth (ft)** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** |
| **Field Type** | **Grab** | **Grab** | **Grab** | **Grab** | **Grab** |
| **Analyte (mg/kg)** | | | | | |
| 1,1,1-Trichloroethane | 0.0057 U | 0.0057 U | 0.0058 U | 0.0057 U | 0.0067 U |
| 1,1,2,2-Tetrachloroethane | 0.0057 U | 0.0057 U | 0.0058 U | 0.0057 U | 0.0067 U |
| 1,1,2-Trichloroethane | 0.0057 U | 0.0057 U | 0.0058 U | 0.0057 U | 0.0067 U |
| 1,1-Dichloroethane | 0.0057 U | 0.0057 U | 0.0058 U | 0.0057 U | 0.0067 U |
| 1,1-Dichloroethene | 0.0057 U | 0.0057 U | 0.0058 U | 0.0057 U | 0.0067 U |
| 1,2-Dibromoethane | 0.0057 U | 0.0057 U | 0.0058 U | 0.0057 U | 0.0067 U |
| 1,2-Dichloroethane | 0.0057 U | 0.0057 U | 0.0058 U | 0.0057 U | 0.0067 U |
| 1,2-Dichloroethene | 0.0057 U | 0.0057 U | 0.0058 U | 0.0057 U | 0.0067 U |
| 1,2-Dichloropropane | 0.0057 U | 0.0057 U | 0.0058 U | 0.0057 U | 0.0067 U |
| 2-Butanone | 0.023 UJ | 0.023 UJ | 0.023 UJ | 0.023 UJ | 0.027 U |
| 2-Hexanone | 0.023 U | 0.023 U | 0.023 U | 0.023 U | 0.027 U |
| 4-Methyl-2-pentanone | 0.023 U | 0.023 U | 0.023 U | 0.023 U | 0.027 U |
| Acetone | 0.023 UJ | 0.023 UJ | 0.023 UJ | 0.023 UJ | 0.027 UJ |
| Benzene | 0.0057 U | 0.0057 U | 0.0058 U | 0.0057 U | 0.0067 U |
| Bromochloromethane | 0.0057 U | 0.0057 U | 0.0058 U | 0.0057 U | 0.0067 U |
| Bromodichloromethane | 0.0057 U | 0.0057 U | 0.0058 U | 0.0057 U | 0.0067 U |
| Bromoform | 0.0057 U | 0.0057 U | 0.0058 U | 0.0057 U | 0.0067 U |
| Bromomethane | 0.0057 U | 0.0057 U | 0.0058 U | 0.0057 U | 0.0067 U |
| Carbon disulfide | 0.0057 U | 0.0057 U | 0.0058 U | 0.0057 U | 0.0067 U |
| Carbon tetrachloride | 0.0057 U | 0.0057 U | 0.0058 U | 0.0057 U | 0.0067 U |
| Chlorobenzene | 0.0057 U | 0.0057 U | 0.0058 U | 0.0057 U | 0.0067 U |
| Chloroethane | 0.0057 U | 0.0057 U | 0.0058 U | 0.0057 U | 0.0067 U |
| Chloroform | 0.0057 U | 0.0057 U | 0.0058 U | 0.0057 U | 0.0067 U |
| Chloromethane | 0.0057 U | 0.0057 U | 0.0058 U | 0.0057 U | 0.0067 U |
| Dibromochloromethane | 0.0057 U | 0.0057 U | 0.0058 U | 0.0057 U | 0.0067 U |
| Dimethylbenzene | 0.0057 U | 0.0057 U | 0.0058 U | 0.0057 U | 0.0067 U |
| Ethylbenzene | 0.0057 U | 0.0057 U | 0.0058 U | 0.0057 U | 0.0067 U |
| Methylene chloride | 0.0057 U | 0.0057 U | 0.0058 U | 0.0057 U | 0.0067 U |
| Styrene | 0.0057 U | 0.0057 U | 0.0058 U | 0.0057 U | 0.0067 U |
| Tetrachloroethene | 0.0057 U | 0.0057 U | 0.0058 U | 0.0057 U | 0.0067 U |
| Toluene | 0.00062 J | 0.0057 U | 0.0058 U | 0.0057 U | 0.0067 U |
| Trichloroethene | 0.0057 U | 0.0057 U | 0.0058 U | 0.0057 U | 0.0067 U |
| Vinyl chloride | 0.0057 U | 0.0057 U | 0.0058 U | 0.0057 U | 0.0067 U |
| cis-1,3-Dichloropropene | 0.0057 U | 0.0057 U | 0.0058 U | 0.0057 U | 0.0067 U |
| trans-1,3-Dichloropropene | 0.0057 U | 0.0057 U | 0.0058 U | 0.0057 U | 0.0067 U |

**Table I-5. Surface Soil Volatile Organic Compounds (continued)**

| Location | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate | Preparation and Receiving Areas Aggregate |
|---|---|---|---|---|---|
| **Station** | **LL4-075** | **LL4-076** | **LL4-076** | **LL4-080** | **LL4-090** |
| **Sample ID** | **LL40701** | **LL40704** | **LL41138** | **LL40714** | **LL40744** |
| **Customer ID** | **LL4ss-075-0701-SO** | **LL4ss-076-0704-SO** | **LL4ss-076-1138-SO** | **LL4ss-080-0714-SO** | **LL4ss-090-0744-SO** |
| **Date** | **08/22/2001** | **08/22/2001** | **08/22/2001** | **08/22/2001** | **08/23/2001** |
| **Depth (ft)** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** |
| **Field Type** | **Grab** | **Grab** | **Field Duplicate** | **Grab** | **Grab** |
| **Analyte (mg/kg)** | | | | | |
| 1,1,1-Trichloroethane | 0.0058 U | 0.0055 U | 0.0055 U | 0.0058 U | 0.0055 U |
| 1,1,2,2-Tetrachloroethane | 0.0058 U | 0.0055 U | 0.0055 U | 0.0058 U | 0.0055 U |
| 1,1,2-Trichloroethane | 0.0058 U | 0.0055 U | 0.0055 U | 0.0058 U | 0.0055 U |
| 1,1-Dichloroethane | 0.0058 U | 0.0055 U | 0.0055 U | 0.0058 U | 0.0055 U |
| 1,1-Dichloroethene | 0.0058 U | 0.0055 U | 0.0055 U | 0.0058 U | 0.0055 U |
| 1,2-Dibromoethane | 0.0058 U | 0.0055 U | 0.0055 U | 0.0058 U | 0.0055 U |
| 1,2-Dichloroethane | 0.0058 U | 0.0055 U | 0.0055 U | 0.0058 U | 0.0055 U |
| 1,2-Dichloroethene | 0.0058 U | 0.0055 U | 0.0055 U | 0.0058 U | 0.0055 U |
| 1,2-Dichloropropane | 0.0058 U | 0.0055 U | 0.0055 U | 0.0058 U | 0.0055 U |
| 2-Butanone | 0.023 UJ | 0.022 UJ | 0.022 UJ | 0.023 UJ | 0.022 U |
| 2-Hexanone | 0.023 U | 0.022 U | 0.022 U | 0.023 U | 0.022 U |
| 4-Methyl-2-pentanone | 0.023 U | 0.022 U | 0.022 U | 0.023 U | 0.022 U |
| Acetone | 0.023 UJ | 0.022 UJ | 0.022 UJ | 0.023 UJ | 0.022 U |
| Benzene | 0.0058 U | 0.0055 U | 0.0055 U | 0.0058 U | 0.0055 U |
| Bromochloromethane | 0.0058 U | 0.0055 U | 0.0055 U | 0.0058 U | 0.0055 U |
| Bromodichloromethane | 0.0058 U | 0.0055 U | 0.0055 U | 0.0058 U | 0.0055 U |
| Bromoform | 0.0058 U | 0.0055 U | 0.0055 U | 0.0058 U | 0.0055 U |
| Bromomethane | 0.0058 U | 0.0055 U | 0.0055 U | 0.0058 U | 0.0055 U |
| Carbon disulfide | 0.0058 U | 0.0055 U | 0.0055 U | 0.0058 U | 0.0055 U |
| Carbon tetrachloride | 0.0058 U | 0.0055 U | 0.0055 U | 0.0058 U | 0.0055 U |
| Chlorobenzene | 0.0058 U | 0.0055 U | 0.0055 U | 0.0058 U | 0.0055 U |
| Chloroethane | 0.0058 U | 0.0055 U | 0.0055 U | 0.0058 U | 0.0055 U |
| Chloroform | 0.0058 U | 0.0055 U | 0.0055 U | 0.0058 U | 0.0055 U |
| Chloromethane | 0.0058 U | 0.0055 U | 0.0055 U | 0.0058 U | 0.0055 U |
| Dibromochloromethane | 0.0058 U | 0.0055 U | 0.0055 U | 0.0058 U | 0.0055 U |
| Dimethylbenzene | 0.0058 U | 0.0055 U | 0.0055 U | 0.0058 U | 0.0055 U |
| Ethylbenzene | 0.0058 U | 0.0055 U | 0.0055 U | 0.0058 U | 0.0055 U |
| Methylene chloride | 0.0058 U | 0.0055 U | 0.0055 U | 0.0058 U | 0.0055 U |
| Styrene | 0.0058 U | 0.0055 U | 0.0055 U | 0.0058 U | 0.0055 U |
| Tetrachloroethene | 0.0058 U | 0.0055 U | 0.0055 U | 0.0058 U | 0.0055 U |
| Toluene | 0.0058 U | 0.00086 J | 0.0055 U | 0.0058 U | 0.00066 J |
| Trichloroethene | 0.0058 U | 0.0055 U | 0.0055 U | 0.0058 U | 0.0055 U |
| Vinyl chloride | 0.0058 U | 0.0055 U | 0.0055 U | 0.0058 U | 0.0055 U |
| cis-1,3-Dichloropropene | 0.0058 U | 0.0055 U | 0.0055 U | 0.0058 U | 0.0055 U |
| trans-1,3-Dichloropropene | 0.0058 U | 0.0055 U | 0.0055 U | 0.0058 U | 0.0055 U |

**Table I-5. Surface Soil Volatile Organic Compounds (continued)**

| Location | Preparation and Receiving Areas Aggregate | Packaging and Shipping Areas Aggregate | Packaging and Shipping Areas Aggregate | Packaging and Shipping Areas Aggregate | Explosives Handling Areas Aggregate |
|---|---|---|---|---|---|
| **Station** | **LL4-090** | **LL4-093** | **LL4-096** | **LL4-098** | **LL4-110** |
| **Sample ID** | **LL41139** | **LL40753** | **LL40762** | **LL40768** | **LL40798** |
| **Customer ID** | **LL4ss-090-1139-SO** | **LL4ss-093-0753-SO** | **LL4ss-096-0762-SO** | **LL4ss-098-0768-SO** | **LL4ss-110-0798-SO** |
| **Date** | **08/23/2001** | **08/22/2001** | **08/22/2001** | **08/22/2001** | **08/12/2001** |
| **Depth (ft)** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** |
| **Field Type** | **Field Duplicate** | **Grab** | **Grab** | **Grab** | **Grab** |
| **Analyte (mg/kg)** | | | | | |
| 1,1,1-Trichloroethane | 0.0054 U | 0.0063 U | 0.0055 U | 0.0056 U | 0.0074 U |
| 1,1,2,2-Tetrachloroethane | 0.0054 U | 0.0063 U | 0.0055 U | 0.0056 U | 0.0074 U |
| 1,1,2-Trichloroethane | 0.0054 U | 0.0063 U | 0.0055 U | 0.0056 U | 0.0074 U |
| 1,1-Dichloroethane | 0.0054 U | 0.0063 U | 0.0055 U | 0.0056 U | 0.0074 U |
| 1,1-Dichloroethene | 0.0054 U | 0.0063 U | 0.0055 U | 0.0056 U | 0.0074 U |
| 1,2-Dibromoethane | 0.0054 U | 0.0063 U | 0.0055 U | 0.0056 U | 0.0074 U |
| 1,2-Dichloroethane | 0.0054 U | 0.0063 U | 0.0055 U | 0.0056 U | 0.0074 U |
| 1,2-Dichloroethene | 0.0054 U | 0.0063 U | 0.0055 U | 0.0056 U | 0.0074 U |
| 1,2-Dichloropropane | 0.0054 U | 0.0063 U | 0.0055 U | 0.0056 U | 0.0074 U |
| 2-Butanone | 0.022 U | 0.025 UJ | 0.022 U | 0.023 UJ | 0.029 U |
| 2-Hexanone | 0.022 U | 0.025 U | 0.022 U | 0.023 U | 0.029 U |
| 4-Methyl-2-pentanone | 0.022 U | 0.025 U | 0.022 U | 0.023 U | 0.029 U |
| Acetone | 0.022 U | 0.025 UJ | 0.022 U | 0.023 UJ | 0.029 UJ |
| Benzene | 0.0054 U | 0.0063 U | 0.0055 U | 0.0056 U | 0.0074 U |
| Bromochloromethane | 0.0054 U | 0.0063 U | 0.0055 U | 0.0056 U | 0.0074 U |
| Bromodichloromethane | 0.0054 U | 0.0063 U | 0.0055 U | 0.0056 U | 0.0074 U |
| Bromoform | 0.0054 U | 0.0063 U | 0.0055 U | 0.0056 U | 0.0074 U |
| Bromomethane | 0.0054 U | 0.0063 U | 0.0055 U | 0.0056 U | 0.0074 U |
| Carbon disulfide | 0.0054 U | 0.0063 U | 0.0055 U | 0.0056 U | 0.0074 U |
| Carbon tetrachloride | 0.0054 U | 0.0063 U | 0.0055 U | 0.0056 U | 0.0074 U |
| Chlorobenzene | 0.0054 U | 0.0063 U | 0.0055 U | 0.0056 U | 0.0074 U |
| Chloroethane | 0.0054 U | 0.0063 U | 0.0055 U | 0.0056 U | 0.0074 U |
| Chloroform | 0.0054 U | 0.0063 U | 0.0055 U | 0.0056 U | 0.0074 U |
| Chloromethane | 0.0054 U | 0.0063 U | 0.0055 U | 0.0056 U | 0.0074 U |
| Dibromochloromethane | 0.0054 U | 0.0063 U | 0.0055 U | 0.0056 U | 0.0074 U |
| Dimethylbenzene | 0.0054 U | 0.0063 U | 0.0055 U | 0.0056 U | 0.0074 U |
| Ethylbenzene | 0.0054 U | 0.0063 U | 0.0055 U | 0.0056 U | 0.0074 U |
| Methylene chloride | 0.0054 U | 0.0063 U | 0.0055 U | 0.0056 U | 0.0074 U |
| Styrene | 0.0054 U | 0.0063 U | 0.0055 U | 0.0056 U | 0.0074 U |
| Tetrachloroethene | 0.0054 U | 0.0063 U | 0.0055 U | 0.0056 U | 0.0074 U |
| Toluene | 0.0054 U | 0.0063 U | 0.0016 J | 0.0056 U | 0.0074 U |
| Trichloroethene | 0.0054 U | 0.0063 U | 0.0055 U | 0.0056 U | 0.0074 U |
| Vinyl chloride | 0.0054 U | 0.0063 U | 0.0055 U | 0.0056 U | 0.0074 U |
| cis-1,3-Dichloropropene | 0.0054 U | 0.0063 U | 0.0055 U | 0.0056 U | 0.0074 U |
| trans-1,3-Dichloropropene | 0.0054 U | 0.0063 U | 0.0055 U | 0.0056 U | 0.0074 U |

**Table I-5. Surface Soil Volatile Organic Compounds (continued)**

| Location | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate | Preparation and Receiving Areas Aggregate | Preparation and Receiving Areas Aggregate | Perimeter Area Aggregate |
|---|---|---|---|---|---|
| **Station** | **LL4-113** | **LL4-117** | **LL4-126** | **LL4-130** | **LL4-140** |
| **Sample ID** | **LL40807** | **LL40819** | **LL40836** | **LL40846** | **LL40872** |
| **Customer ID** | **LL4ss-113-0807-SO** | **LL4ss-117-0819-SO** | **LL4ss-126-0836-SO** | **LL4ss-130-0846-SO** | **LL4ss-140-0872-SO** |
| **Date** | **08/21/2001** | **08/21/2001** | **08/22/2001** | **08/14/2001** | **08/26/2001** |
| **Depth (ft)** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** |
| **Field Type** | **Grab** | **Grab** | **Grab** | **Grab** | **Grab** |
| **Analyte (mg/kg)** | | | | | |
| 1,1,1-Trichloroethane | 0.0059 U | 0.0062 U | 0.0068 U | 0.0057 U | 0.0057 U |
| 1,1,2,2-Tetrachloroethane | 0.0059 U | 0.0062 U | 0.0068 U | 0.0057 U | 0.0057 U |
| 1,1,2-Trichloroethane | 0.0059 U | 0.0062 U | 0.0068 U | 0.0057 U | 0.0057 U |
| 1,1-Dichloroethane | 0.0059 U | 0.0062 U | 0.0068 U | 0.0057 U | 0.0057 U |
| 1,1-Dichloroethene | 0.0059 U | 0.0062 U | 0.0068 U | 0.0057 U | 0.0057 U |
| 1,2-Dibromoethane | 0.0059 U | 0.0062 U | 0.0068 U | 0.0057 U | 0.0057 U |
| 1,2-Dichloroethane | 0.0059 U | 0.0062 U | 0.0068 U | 0.0057 U | 0.0057 U |
| 1,2-Dichloroethene | 0.0059 U | 0.0062 U | 0.0068 U | 0.0057 U | 0.0057 U |
| 1,2-Dichloropropane | 0.0059 U | 0.0062 U | 0.0068 U | 0.0057 U | 0.0057 U |
| 2-Butanone | 0.024 UJ | 0.025 U | 0.027 U | 0.023 U | 0.023 UJ |
| 2-Hexanone | 0.024 U | 0.025 U | 0.027 U | 0.023 U | 0.023 U |
| 4-Methyl-2-pentanone | 0.024 U | 0.025 U | 0.027 U | 0.023 U | 0.023 U |
| Acetone | 0.024 UJ | 0.025 UJ | 0.012 J | 0.023 UJ | 0.023 UJ |
| Benzene | 0.0059 U | 0.0062 U | 0.0068 U | 0.0057 U | 0.0057 U |
| Bromochloromethane | 0.0059 U | 0.0062 U | 0.0068 U | 0.0057 U | 0.0057 U |
| Bromodichloromethane | 0.0059 U | 0.0062 U | 0.0068 U | 0.0057 U | 0.0057 U |
| Bromoform | 0.0059 U | 0.0062 U | 0.0068 U | 0.0057 U | 0.0057 U |
| Bromomethane | 0.0059 U | 0.0062 U | 0.0068 U | 0.0057 U | 0.0057 U |
| Carbon disulfide | 0.0059 U | 0.0062 U | 0.0068 U | 0.0057 U | 0.0057 U |
| Carbon tetrachloride | 0.0059 U | 0.0062 U | 0.0068 U | 0.0057 U | 0.0057 U |
| Chlorobenzene | 0.0059 U | 0.0062 U | 0.0068 U | 0.0057 U | 0.0057 U |
| Chloroethane | 0.0059 U | 0.0062 U | 0.0068 U | 0.0057 U | 0.0057 U |
| Chloroform | 0.0059 U | 0.0062 U | 0.0068 U | 0.0057 U | 0.0057 U |
| Chloromethane | 0.0059 U | 0.0062 U | 0.0068 U | 0.0057 U | 0.0057 U |
| Dibromochloromethane | 0.0059 U | 0.0062 U | 0.0068 U | 0.0057 U | 0.0057 U |
| Dimethylbenzene | 0.0059 U | 0.0062 U | 0.0068 U | 0.0057 U | 0.0057 U |
| Ethylbenzene | 0.0059 U | 0.0062 U | 0.0068 U | 0.0057 U | 0.0057 U |
| Methylene chloride | 0.0059 U | 0.0062 U | 0.0068 U | 0.0057 U | 0.0057 U |
| Styrene | 0.0059 U | 0.0062 U | 0.0068 U | 0.0057 U | 0.0057 U |
| Tetrachloroethene | 0.0059 U | 0.0062 U | 0.0068 U | 0.0057 U | 0.0057 U |
| Toluene | 0.0059 U | 0.0062 U | 0.0068 U | 0.00087 J | 0.0057 U |
| Trichloroethene | 0.0059 U | 0.0062 U | 0.0068 U | 0.0057 U | 0.0057 U |
| Vinyl chloride | 0.0059 U | 0.0062 U | 0.0068 U | 0.0057 U | 0.0057 U |
| cis-1,3-Dichloropropene | 0.0059 U | 0.0062 U | 0.0068 U | 0.0057 U | 0.0057 U |
| trans-1,3-Dichloropropene | 0.0059 U | 0.0062 U | 0.0068 U | 0.0057 U | 0.0057 U |

**Table I-5. Surface Soil Volatile Organic Compounds (continued)**

| Location | Change Houses Aggregate | Perimeter Area Aggregate | Explosives Handling Areas Aggregate |
|---|---|---|---|
| **Station** | **LL4-141** | **LL4-157** | **LL4-158** |
| **Sample ID** | **LL40875** | **LL40909** | **LL40910** |
| **Customer ID** | **LL4ss-141-0875-SO** | **LL4ss-157-0909-SO** | **LL4ss-158-0910-SO** |
| **Date** | **08/14/2001** | **08/24/2001** | **08/24/2001** |
| **Depth (ft)** | **0 - 1** | **0 - 1** | **0 - 1** |
| **Field Type** | **Grab** | **Grab** | **Grab** |
| **Analyte (mg/kg)** | | | |
| 1,1,1-Trichloroethane | 0.0061 U | 0.0066 U | 0.0058 U |
| 1,1,2,2-Tetrachloroethane | 0.0061 U | 0.0066 U | 0.0058 U |
| 1,1,2-Trichloroethane | 0.0061 U | 0.0066 U | 0.0058 U |
| 1,1-Dichloroethane | 0.0061 U | 0.0066 U | 0.0058 U |
| 1,1-Dichloroethene | 0.0061 U | 0.0066 U | 0.0058 U |
| 1,2-Dibromoethane | 0.0061 U | 0.0066 U | 0.0058 U |
| 1,2-Dichloroethane | 0.0061 U | 0.0066 U | 0.0058 U |
| 1,2-Dichloroethene | 0.0061 U | 0.0066 U | 0.0058 U |
| 1,2-Dichloropropane | 0.0061 U | 0.0066 U | 0.0058 U |
| 2-Butanone | 0.024 U | 0.026 U | 0.023 U |
| 2-Hexanone | 0.024 U | 0.026 U | 0.023 U |
| 4-Methyl-2-pentanone | 0.024 U | 0.026 U | 0.023 U |
| Acetone | 0.024 UJ | 0.026 U | 0.023 U |
| Benzene | 0.0026 J | 0.0066 U | 0.0058 U |
| Bromochloromethane | 0.0061 U | 0.0066 U | 0.0058 U |
| Bromodichloromethane | 0.0061 U | 0.0066 U | 0.0058 U |
| Bromoform | 0.0061 U | 0.0066 U | 0.0058 U |
| Bromomethane | 0.0061 U | 0.0066 U | 0.0058 U |
| Carbon disulfide | 0.0061 U | 0.0066 U | 0.0058 U |
| Carbon tetrachloride | 0.0061 U | 0.0066 U | 0.0058 U |
| Chlorobenzene | 0.0061 U | 0.0066 U | 0.0058 U |
| Chloroethane | 0.0061 U | 0.0066 U | 0.0058 U |
| Chloroform | 0.0061 U | 0.0066 U | 0.0058 U |
| Chloromethane | 0.0061 U | 0.0066 U | 0.0058 U |
| Dibromochloromethane | 0.0061 U | 0.0066 U | 0.0058 U |
| Dimethylbenzene | 0.003 J | 0.0066 U | 0.0058 U |
| Ethylbenzene | 0.0061 U | 0.0066 U | 0.0058 U |
| Methylene chloride | 0.0061 U | 0.0066 U | 0.0058 U |
| Styrene | 0.0061 U | 0.0066 U | 0.0058 U |
| Tetrachloroethene | 0.0061 U | 0.0066 U | 0.0058 U |
| Toluene | 0.0056 J | 0.0066 U | 0.0058 U |
| Trichloroethene | 0.0061 U | 0.0066 U | 0.0058 U |
| Vinyl chloride | 0.0061 U | 0.0066 U | 0.0058 U |
| cis-1,3-Dichloropropene | 0.0061 U | 0.0066 U | 0.0058 U |
| trans-1,3-Dichloropropene | 0.0061 U | 0.0066 U | 0.0058 U |

= - detected, J - estimated, U - not detected, R - rejected.

**Table I-6. Subsurface Soil Inorganics**

| Location | Perimeter Area Aggregate | Perimeter Area Aggregate | Perimeter Area Aggregate | Perimeter Area Aggregate | Explosives Handling Areas Aggregate |
|---|---|---|---|---|---|
| **Station** | **LL4-068** | **LL4-069** | **LL4-070** | **LL4-070** | **LL4-075** |
| **Sample ID** | **LL40681** | **LL40684** | **LL40687** | **LL41151** | **LL40702** |
| **Customer ID** | **LL4ss-068-0681-SO** | **LL4so-069-0684-SO** | **LL4so-070-0687-SO** | **LL4so-070-1151-SO** | **LL4so-075-0702-SO** |
| **Date** | **08/23/2001** | **08/23/2001** | **08/23/2001** | **08/23/2001** | **08/23/2001** |
| **Depth (ft)** | **1 - 3** | **1 - 3** | **1 - 3** | **1 - 3** | **1 - 3** |
| **Field Type** | **Grab** | **Grab** | **Grab** | **Field Duplicate** | **Grab** |
| **Analyte (mg/kg)** | | | | | |
| Aluminum | 14900 = | 13600 = | 15400 = | 17500 = | 17700 J |
| Antimony | 1.2 R | 1.1 R | 1.2 R | 1.2 R | 1.1 R |
| Arsenic | 13.6 = | 11.9 = | 10.6 = | 13.3 = | 4.3 J |
| Barium | 66 = | 46.9 = | 70.8 = | 82 = | 194 J * |
| Beryllium | 0.64 U | 0.67 U | 0.73 U | 0.86 J | 2.7 J * |
| Cadmium | 0.59 U | 0.57 U | 0.59 U | 0.59 U | 1.5 J * |
| Calcium | 923 = | 224 J | 721 = | 851 = | 84900 J * |
| Chromium | 17.4 = | 15.1 = | 17.1 = | 19.6 = | 27.8 J * |
| Cobalt | 7.7 = | 7.3 = | 9.6 = | 10.1 = | 3.5 J |
| Copper | 16.9 = | 15.5 = | 17.1 = | 21.7 = | 15.4 J |
| Iron | 25000 = | 22700 = | 22800 = | 28100 = | 14400 = |
| Lead | 46.2 = * | 39.2 = * | 31.5 = * | 32.8 = * | 137 J * |
| Magnesium | 2930 = | 2510 = | 2870 = | 3340 = | 14200 J * |
| Manganese | 161 J | 113 J | 186 J | 210 J | 1470 J |
| Mercury | 0.038 J | 0.021 J | 0.043 J | 0.037 J | 0.2 J * |
| Nickel | 20.3 J | 18.6 J | 20.7 J | 24.8 J | 14.7 J |
| Potassium | 948 = | 791 = | 911 = | 988 = | 2010 J |
| Selenium | 2.3 U | 2.3 U | 2.3 U | 2.3 U | 0.86 J |
| Silver | 0.59 U | 0.57 U | 0.59 U | 0.59 U | 0.57 U |
| Sodium | 586 U | 572 U | 586 U | 587 U | 245 J * |
| Thallium | 0.54 J | 0.44 J | 0.55 J | 0.59 J | 0.3 UJ |
| Vanadium | 22.8 = | 19.6 = | 23.6 = | 27.4 = | 8.7 J |
| Zinc | 60 = | 54.3 = | 60.5 = | 70.6 = | 114 J * |

**Table I-6. Subsurface Soil Inorganics (continued)**

| Location | Preparation and Receiving Areas Aggregate | Preparation and Receiving Areas Aggregate | Preparation and Receiving Areas Aggregate | Packaging and Shipping Areas Aggregate | Explosives Handling Areas Aggregate |
|---|---|---|---|---|---|
| **Station** | **LL4-084** | **LL4-087** | **LL4-088** | **LL4-098** | **LL4-105** |
| **Sample ID** | **LL40727** | **LL40736** | **LL40739** | **LL40769** | **LL40788** |
| **Customer ID** | **LL4so-084-0727-SO** | **LL4so-087-0736-SO** | **LL4so-088-0739-SO** | **LL4so-098-0769-SO** | **LL4so-105-0788-SO** |
| **Date** | **08/25/2001** | **08/25/2001** | **08/24/2001** | **08/23/2001** | **08/23/2001** |
| **Depth (ft)** | **1 - 3** | **1 - 3** | **1 - 3** | **1 - 3** | **1 - 3** |
| **Field Type** | **Grab** | **Grab** | **Grab** | **Grab** | **Grab** |
| **Analyte (mg/kg)** | | | | | |
| Aluminum | 12800 = | 10900 = | 36700 = * | 12600 = | 10900 = |
| Antimony | 1.2 R | 1.3 R | 1.1 R | 1.1 R | 1.2 R |
| Arsenic | 8.8 = | 6 = | 2.7 = | 7.7 = | 10.7 = |
| Barium | 182 = * | 32.4 = | 404 = * | 131 = * | 51.1 = |
| Beryllium | 1.1 J * | 0.33 U | 5 J * | 1.1 J * | 0.62 U |
| Cadmium | 0.26 J * | 0.64 U | 0.42 J * | 3.2 = * | 0.59 U |
| Calcium | 28100 = | 1910 = | 174000 = * | 23900 = | 14700 = |
| Chromium | 11.8 = | 8.9 = | 10.8 = | 13.5 = | 14.4 = |
| Cobalt | 7 = | 2.8 = | 1.9 = | 6.8 = | 9.1 = |
| Copper | 14.8 = | 6.5 = | 5.5 = | 17.6 = | 18.1 = |
| Iron | 18400 = | 9320 = | 13800 = | 20200 = | 23800 = |
| Lead | 42.1 = * | 14 = | 85.3 = * | 47.8 = * | 11.3 = |
| Magnesium | 4710 = | 1140 = | 17400 = * | 5450 = | 5110 = |
| Manganese | 1660 = | 84.5 = | 4660 = * | 731 = | 251 J |
| Mercury | 0.031 U | 0.029 U | 0.11 U | 0.013 J | 0.013 J |
| Nickel | 16.7 = | 7.2 = | 4.3 = | 18.7 J | 24 J |
| Potassium | 1090 = | 374 J | 2510 = | 1210 = | 1620 = |
| Selenium | 0.74 J | 0.42 J | 2.8 J * | 2.3 U | 2.4 U |
| Silver | 0.58 U | 0.64 U | 2.8 U | 0.57 U | 0.59 U |
| Sodium | 103 J | 635 U | 639 = * | 82.1 J | 589 U |
| Thallium | 0.27 UJ | 0.29 U | 0.11 UJ | 0.66 J | 0.47 J |
| Vanadium | 13.5 = | 14.6 = | 8 = | 14.5 = | 15.8 = |
| Zinc | 109 = * | 35.7 = | 49.2 = | 102 = * | 58.3 = |

**Table I-6. Subsurface Soil Inorganics (continued)**

| Location | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate |
|---|---|---|---|
| **Station** | **LL4-105** | **LL4-113** | **LL4-142** |
| **Sample ID** | **LL41144** | **LL40808** | **LL40879** |
| **Customer ID** | **LL4so-105-1144-SO** | **LL4so-113-00808-SO** | **LL4so-142-0879-SO** |
| **Date** | **08/23/2001** | **08/23/2001** | **08/25/2001** |
| **Depth (ft)** | **1 - 3** | **1 - 3** | **1 - 3** |
| **Field Type** | **Field Duplicate** | **Grab** | **Grab** |
| **Analyte (mg/kg)** | | | |
| Aluminum | 11000 = | 12700 = | 11100 = |
| Antimony | 1.2 R | 1.1 R | 1.2 R |
| Arsenic | 14.9 = | 17.9 = | 7.8 = |
| Barium | 58.6 = | 137 = * | 54.7 = |
| Beryllium | 0.65 U | 1.5 J * | 0.61 U |
| Cadmium | 0.59 U | 1.4 = * | 0.29 J * |
| Calcium | 18400 = | 37400 = * | 3790 = |
| Chromium | 14.8 = | 12.5 = | 13.3 = |
| Cobalt | 10.1 = | 4.3 = | 9.5 = |
| Copper | 19.9 = | 17.1 = | 16.3 = |
| Iron | 25700 = | 17800 = | 19300 = |
| Lead | 14.7 = | 59.2 = * | 14.6 = |
| Magnesium | 5250 = | 5810 = | 2990 = |
| Manganese | 293 J | 1620 J | 219 = |
| Mercury | 0.12 UJ | 0.043 J | 0.022 U |
| Nickel | 25.8 J | 12.3 J | 22.2 = |
| Potassium | 1640 = | 687 = | 976 = |
| Selenium | 2.4 U | 2.2 U | 2.4 U |
| Silver | 0.59 U | 0.54 U | 0.61 U |
| Sodium | 594 U | 106 J | 608 U |
| Thallium | 0.49 J | 0.38 UJ | 0.24 U |
| Vanadium | 16.6 = | 12.5 = | 16.5 = |
| Zinc | 62.9 = | 130 = * | 56.9 = |

* - exceeds site-wide background criteria.

= - detected, J - estimated, U - not detected, R - rejected.

**Table I-7. Subsurface Soil Explosives and Propellants**

| Location | Explosives Handling Areas Aggregate |
|---|---|
| **Station** | **LL4-113** |
| **Sample ID** | **LL40808** |
| **Customer ID** | **LL4so-113-00808-SO** |
| **Date** | **08/23/2001** |
| **Depth (ft)** | **1 - 3** |
| **Field Type** | **Grab** |
| **Analyte (mg/kg)** | |
| 1,3,5-Trinitrobenzene | 0.25 U |
| 1,3-Dinitrobenzene | 0.25 U |
| 2,4,6-Trinitrotoluene | 0.25 U |
| 2,4-Dinitrotoluene | 0.25 U |
| 2,6-Dinitrotoluene | 0.25 U |
| 2-Amino-4,6-dinitrotoluene | 0.25 U |
| 2-Nitrotoluene | 0.25 U |
| 3-Nitrotoluene | 0.25 U |
| 4-Amino-2,6-dinitrotoluene | 0.25 U |
| 4-Nitrotoluene | 0.25 U |
| HMX | 0.5 U |
| Nitrobenzene | 0.25 U |
| Nitroglycerin | 2.5 U |
| RDX | 0.5 U |
| Tetryl | 0.65 U |

= - detected, J - estimated, U - not detected, R - rejected.

**Table I-8. Subsurface Soil Pesticides and PCBs**

| Location | Explosives Handling Areas Aggregate | Explosives Handling Areas Aggregate | Perimeter Area Aggregate |
|---|---|---|---|
| **Station** | **LL4-105** | **LL4-105** | **LL4-070** |
| **Sample ID** | **LL40788** | **LL41144** | **LL40687** |
| **Customer ID** | **LL4so-105-0788-SO** | **LL4so-105-1144-SO** | **LL4so-070-0687-SO** |
| **Date** | **08/23/2001** | **08/23/2001** | **08/23/2001** |
| **Depth (ft)** | **1 - 3** | **1 - 3** | **1 - 3** |
| **Field Type** | **Grab** | **Field Duplicate** | **Grab** |
| **Analyte (mg/kg)** | | | |
| PCB-1016 | 0.078 U | 0.039 U | 0.039 U |
| PCB-1221 | 0.078 U | 0.039 U | 0.039 U |
| PCB-1232 | 0.078 U | 0.039 U | 0.039 U |
| PCB-1242 | 0.078 U | 0.039 U | 0.039 U |
| PCB-1248 | 0.078 U | 0.039 U | 0.039 U |
| PCB-1254 | 0.078 U | 0.039 U | 0.039 U |
| PCB-1260 | 0.078 U | 0.05 J | 0.039 U |

= - detected, J - estimated, U - not detected, R - rejected.

**Table I-9. Sediment Inorganics**

| Location | Melt Pour Area Drainage Ditches Aggregate | Melt Pour Area Drainage Ditches Aggregate | Main Stream Segment Upstream of Perimeter Road | Main Stream Segment Upstream of Perimeter Road | Main Stream Segment and Settling Pond |
|---|---|---|---|---|---|
| **Station** | **LL4-013(p2)** | **LL4sd-021(d)** | **LL4sd/sw-044(d)** | **LL4-048(p2)** | **LL4-049(p2)** |
| **Sample ID** | **LL40953** | **LL40954** | **LL40955** | **LL40957** | **LL40959** |
| **Customer ID** | **LL4sd-013-0953-SD** | **LL4sd-021-0954-SD** | **LL4sd-044-0955-SD** | **LL4sd-048-0957-SD** | **LL4sd-049-0959-SD** |
| **Date** | **08/11/2001** | **08/11/2001** | **08/13/2001** | **08/20/2001** | **08/20/2001** |
| **Depth (ft)** | **0 - 0.5** | **0 - 0.5** | **0 - 0.5** | **0 - 0.5** | **0 - 0.5** |
| **Field Type** | **Grab** | **Grab** | **Grab** | **Grab** | **Grab** |
| **Analyte (mg/kg)** | | | | | |
| Cyanide | | | | | |
| Chromium, hexavalent | | | | | |
| Aluminum | 6590 = | 6280 = | 7890 = | 5980 = | 7810 = |
| Antimony | 2 J * | 1.2 UJ | 1.5 UJ | 1.8 UJ | 1.3 UJ |
| Arsenic | 7.1 = | 13.7 = | 10.2 = | 4.8 = | 2 = |
| Barium | 53.1 = | 43.1 = | 54.2 = | 56.8 = | 44.6 = |
| Beryllium | 0.45 J * | 0.38 J | 0.56 = * | 0.48 U | 0.44 U |
| Cadmium | 0.22 J * | 0.14 J * | 0.25 = * | 0.17 U | 0.67 U |
| Calcium | 6790 J * | 4880 J | 13900 = * | 8330 = * | 975 = |
| Chromium | 9.8 = | 9.8 = | 10.4 J | 8 = | 9.5 = |
| Cobalt | 8.5 = | 8.1 = | 7.7 = | 6.3 = | 5.6 = |
| Copper | 15.5 = | 19.5 = | 16.5 = | 10.9 = | 7.5 = |
| Iron | 20000 = | 26000 = | 18600 = | 12100 = | 9420 = |
| Lead | 27.2 = | 12.1 = | 13.7 = | 11.4 J | 12.3 J |
| Magnesium | 3170 = * | 3450 = * | 4150 = * | 1500 = | 1460 = |
| Manganese | 548 = | 794 = | 469 = | 519 = | 78.2 = |
| Mercury | 0.14 U | 0.018 J | 0.029 J | 0.18 U | 0.032 J |
| Nickel | 18.7 = * | 19.3 = * | 15.7 = | 13 J | 11 J |
| Potassium | 748 J | 829 J | 838 = | 558 J | 601 J |
| Selenium | 2.8 U | 2.5 U | 3.1 U | 3.5 U | 2.7 U |
| Silver | 0.69 U | 0.62 U | 0.77 U | 0.88 U | 0.67 U |
| Sodium | 689 U | 619 U | 774 U | 883 U | 674 U |
| Thallium | 0.73 = | 0.66 = | 0.4 = | 0.74 U | 0.71 = |
| Vanadium | 11.7 = | 12.5 = | 12.1 = | 10.4 = | 10.5 = |
| Zinc | 111 = | 71.8 = | 90.9 = | 80.1 = | 47.8 = |

**Table I-9. Sediment Inorganics (continued)**

| Location | Melt Pour Area Drainage Ditches Aggregate | Melt Pour Area Drainage Ditches Aggregate | Main Stream Segment and Settling Pond | Main Stream Segment and Settling Pond | Main Stream Segment and Settling Pond |
|---|---|---|---|---|---|
| **Station** | **LL4sd-050(d)** | **LL4sd-051(d)** | **LL4sd/sw-052(p)** | **LL4sd/sw-053(p)** | **LL4sd/sw-054(p)** |
| **Sample ID** | **LL40961** | **LL40962** | **LL40963** | **LL40965** | **LL40967** |
| **Customer ID** | **LL4sd-050-0961-SD** | **LL4sd-051-0962-SD** | **LL4sd-052-0963-SD** | **LL4sd-053-0965-SD** | **LL4sd-054-0967-SD** |
| **Date** | **08/12/2001** | **08/13/2001** | **08/14/2001** | **08/14/2001** | **08/14/2001** |
| **Depth (ft)** | **0 - 0.5** | **0 - 0.5** | **0 - 0.5** | **0 - 0.5** | **0 - 0.5** |
| **Field Type** | **Grab** | **Grab** | **Grab** | **Grab** | **Grab** |
| **Analyte (mg/kg)** | | | | | |
| Cyanide | | | | | |
| Chromium, hexavalent | | | | | |
| Aluminum | 7010 = | 2730 = | 14600 = * | 15000 = * | 15500 = * |
| Antimony | 1.3 UJ | 1.6 UJ | 4.1 UJ | 4.5 UJ | 5.4 UJ |
| Arsenic | 13.6 = | 3.2 = | 10.7 J | 13.2 J | 16 J |
| Barium | 48.6 = | 16.7 = | 118 J | 140 J * | 162 J * |
| Beryllium | 0.42 J * | 0.18 = | 0.76 U | 0.85 U | 0.98 U |
| Cadmium | 0.23 J * | 0.18 = * | 0.88 J * | 0.83 J * | 0.84 J * |
| Calcium | 5020 J | 2830 = | 3330 J | 3910 J | 4300 J |
| Chromium | 10.4 = | 5.1 J | 18.6 J * | 19.5 J * | 20.2 J * |
| Cobalt | 9.3 = * | 3.7 = | 13.3 = * | 16.3 = * | 16.8 = * |
| Copper | 15.1 = | 7.5 = | 25.9 = | 27 = | 29.4 = * |
| Iron | 21600 = | 8510 = | 34100 J * | 34500 J * | 39400 J * |
| Lead | 13.6 = | 8.6 = | 23.3 J | 25.6 J | 26.9 J |
| Magnesium | 3290 = * | 1420 = | 3550 J * | 3700 J * | 3790 J * |
| Manganese | 277 = | 209 = | 749 J | 669 J | 786 J |
| Mercury | 0.013 J | 0.16 U | 0.043 J | 0.04 J | 0.13 J * |
| Nickel | 18.6 = * | 7.3 = | 25 J * | 30.5 J * | 32.2 J * |
| Potassium | 882 J | 319 J | 1330 J | 1390 J | 1400 J |
| Selenium | 2.6 U | 3.1 U | 8.3 U | 9 U | 10.8 U |
| Silver | 0.65 U | 0.78 U | 2.1 U | 2.2 U | 2.7 U |
| Sodium | 645 U | 782 U | 2070 U | 2240 U | 2700 U |
| Thallium | 0.61 = | 0.28 J | 1.5 = * | 0.99 = * | 2.1 = * |
| Vanadium | 11.6 = | 5 = | 22.3 J | 25.4 J | 26 J |
| Zinc | 69.3 = | 55.2 = | 236 = | 253 = | 273 = |

**Table I-9. Sediment Inorganics (continued)**

| Location | Main Stream Segment and Settling Pond | Melt Pour Area Drainage Ditches Aggregate | Exit Drainage Aggregate | Exit Drainage Aggregate |
|---|---|---|---|---|
| **Station** | **LL4sd/sw-055(p)** | **LL4sd/sw-056(p)** | **LL4sd/sw-057(p)** | **LL4sd/sw-058(d)** |
| **Sample ID** | **LL40969** | **LL40971** | **LL40973** | **LL40975** |
| **Customer ID** | **LL4sd-055-0969-SD** | **LL4sd-056-0971-SD** | **LL4sd-057-0973-SD** | **LL4sd-058-0975-SD** |
| **Date** | **08/14/2001** | **08/13/2001** | **08/13/2001** | **08/20/2001** |
| **Depth (ft)** | **0 - 0.5** | **0 - 0.5** | **0 - 0.5** | **0 - 0.5** |
| **Field Type** | **Grab** | **Grab** | **Grab** | **Grab** |
| **Analyte (mg/kg)** | | | | |
| Cyanide | | | | |
| Chromium, hexavalent | | 1.5 UJ | 1.4 J | 1.3 UJ |
| Aluminum | 16500 = * | 7130 = | 4580 = | 3390 = |
| Antimony | 5.2 UJ | 1.4 UJ | 1.3 UJ | 1.3 UJ |
| Arsenic | 15.9 J | 6.3 = | 5.9 = | 5.8 = |
| Barium | 163 J * | 39 = | 30.2 = | 12.3 = |
| Beryllium | 0.98 U | 0.45 = * | 0.3 = | 0.23 U |
| Cadmium | 1 J * | 0.26 = * | 0.36 = * | 0.65 U |
| Calcium | 6710 J * | 2770 = | 2850 = | 1500 = |
| Chromium | 21.5 J * | 10.4 J | 6.9 J | 5.1 = |
| Cobalt | 16.6 = * | 9.9 = * | 6.3 = | 4.4 = |
| Copper | 31.2 = * | 15.1 = | 12.5 = | 12.1 = |
| Iron | 38000 J * | 16700 = | 11900 = | 11600 = |
| Lead | 27.7 J * | 18.3 = | 12.6 = | 6.4 J |
| Magnesium | 4220 J * | 2540 = | 1850 = | 1640 = |
| Manganese | 731 J | 201 = | 210 = | 315 = |
| Mercury | 0.074 J * | 0.026 J | 0.14 U | 0.13 U |
| Nickel | 33.4 J * | 15 = | 11.1 = | 9.8 J |
| Potassium | 1590 J | 574 J | 455 J | 313 J |
| Selenium | 1.6 J | 0.5 J | 2.8 U | 2.6 U |
| Silver | 2.6 U | 0.73 U | 0.71 U | 0.65 U |
| Sodium | 2600 U | 730 U | 711 U | 653 U |
| Thallium | 2.7 = * | 0.31 = | 0.18 J | 0.47 = |
| Vanadium | 27 J * | 13.1 = | 8.1 = | 5.9 = |
| Zinc | 313 = | 77.9 = | 121 = | 82.2 = |

**Table I-9. Sediment Inorganics (continued)**

| Location | Melt Pour Area Drainage Ditches Aggregate | Melt Pour Area Drainage Ditches Aggregate | Preparation and Receiving Areas Aggregate |
|---|---|---|---|
| **Station** | **LL4-145** | **LL4-145** | **LL4-185** |
| **Sample ID** | **LL40887** | **LL41137** | **LL40990** |
| **Customer ID** | **LL4sd-145-0887-SD** | **LL4sd-145-1137-SD** | **LL4sd-185-0990-SD** |
| **Date** | **08/13/2001** | **08/13/2001** | **08/11/2001** |
| **Depth (ft)** | **0 - 0.5** | **0 - 0.5** | **0 - 0.5** |
| **Field Type** | **Grab** | **Field Duplicate** | **Grab** |
| **Analyte (mg/kg)** | | | |
| Cyanide | 0.66 U | 0.65 U | |
| Chromium, hexavalent | | | |
| Aluminum | 5480 = | 7210 = | 7270 = |
| Antimony | 1.3 UJ | 1.3 UJ | 1.7 UJ |
| Arsenic | 8.4 = | 7.6 = | 8.6 = |
| Barium | 33.2 = | 45.3 = | 109 = |
| Beryllium | 0.32 = | 0.42 = * | 0.53 J * |
| Cadmium | 0.13 = * | 0.17 = * | 2.6 = * |
| Calcium | 4140 = | 3790 = | 4250 J |
| Chromium | 8.3 J | 11.4 J | 17.1 = |
| Cobalt | 7 = | 18 = * | 6.5 = |
| Copper | 14.9 = | 17.8 = | 16.6 = |
| Iron | 17500 = | 20800 = | 14900 = |
| Lead | 11 = | 12.2 = | 563 = * |
| Magnesium | 2380 = | 2460 = | 4510 = * |
| Manganese | 221 = | 292 = | 170 = |
| Mercury | 0.13 U | 0.019 J | 0.17 U |
| Nickel | 15.7 = | 19.2 = * | 28.5 = * |
| Potassium | 585 J | 697 = | 386 J |
| Selenium | 2.6 U | 2.6 U | 1.2 J |
| Silver | 0.66 U | 0.65 U | 0.87 U |
| Sodium | 662 U | 647 U | 870 U |
| Thallium | 0.44 = | 0.41 = | 0.68 = |
| Vanadium | 9.5 = | 13.1 = | 11.6 = |
| Zinc | 66.2 = | 64.8 = | 560 = * |

* - exceeds site-wide background criteria.
= - detected, J - estimated, U - not detected, R - rejected.

**Table I-10. Sediment Explosives and Propellants**

| Location | Main Stream Segment Upstream of Perimeter Road | Melt Pour Area Drainage Ditches Aggregate | Main Stream Segment and Settling Pond | Main Stream Segment and Settling Pond | Main Stream Segment and Settling Pond |
|---|---|---|---|---|---|
| **Station** | **LL4-048(p2)** | **LL4sd-051(d)** | **LL4sd/sw-052(p)** | **LL4sd/sw-053(p)** | **LL4sd/sw-054(p)** |
| **Sample ID** | **LL40957** | **LL40962** | **LL40963** | **LL40965** | **LL40967** |
| **Customer ID** | **LL4sd-048-0957-SD** | **LL4sd-051-0962-SD** | **LL4sd-052-0963-SD** | **LL4sd-053-0965-SD** | **LL4sd-054-0967-SD** |
| **Date** | **08/20/2001** | **08/13/2001** | **08/14/2001** | **08/14/2001** | **08/14/2001** |
| **Depth (ft)** | **0 - 0.5** | **0 - 0.5** | **0 - 0.5** | **0 - 0.5** | **0 - 0.5** |
| **Field Type** | **Grab** | **Grab** | **Grab** | **Grab** | **Grab** |
| **Analyte (mg/kg)** | | | | | |
| 1,3,5-Trinitrobenzene | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| 1,3-Dinitrobenzene | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| 2,4,6-Trinitrotoluene | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| 2,4-Dinitrotoluene | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| 2,6-Dinitrotoluene | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| 2-Amino-4,6-dinitrotoluene | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| 2-Nitrotoluene | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| 3-Nitrotoluene | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| 4-Amino-2,6-dinitrotoluene | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| 4-Nitrotoluene | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.37 U |
| HMX | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Nitrobenzene | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| Nitrocellulose | | | | | |
| Nitroglycerin | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| Nitroguanidine | | | | | |
| RDX | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Tetryl | 0.65 UJ | 0.65 U | 0.65 UJ | 0.65 UJ | 0.65 UJ |

Table I-10. Sediment Explosives and Propellants (continued)

| Location | Main Stream Segment and Settling Pond | Melt Pour Area Drainage Ditches Aggregate | Melt Pour Area Drainage Ditches Aggregate | Preparation and Receiving Areas Aggregate |
|---|---|---|---|---|
| **Station** | **LL4sd/sw-055(p)** | **LL4-145** | **LL4-145** | **LL4-185** |
| **Sample ID** | **LL40969** | **LL40887** | **LL41137** | **LL40990** |
| **Customer ID** | **LL4sd-055-0969-SD** | **LL4sd-145-0887-SD** | **LL4sd-145-1137-SD** | **LL4sd-185-0990-SD** |
| **Date** | **08/14/2001** | **08/13/2001** | **08/13/2001** | **08/11/2001** |
| **Depth (ft)** | **0 - 0.5** | **0 - 0.5** | **0 - 0.5** | **0 - 0.5** |
| **Field Type** | **Grab** | **Grab** | **Field Duplicate** | **Grab** |
| **Analyte (mg/kg)** | | | | |
| 1,3,5-Trinitrobenzene | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| 1,3-Dinitrobenzene | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| 2,4,6-Trinitrotoluene | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| 2,4-Dinitrotoluene | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| 2,6-Dinitrotoluene | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| 2-Amino-4,6-dinitrotoluene | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| 2-Nitrotoluene | 0.29 U | 0.25 U | 0.25 U | 0.25 U |
| 3-Nitrotoluene | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| 4-Amino-2,6-dinitrotoluene | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| 4-Nitrotoluene | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| HMX | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Nitrobenzene | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| Nitrocellulose | | 2 U | 2 U | |
| Nitroglycerin | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| Nitroguanidine | | 0.25 U | 0.25 U | |
| RDX | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Tetryl | 0.65 UJ | 0.65 U | 0.65 U | 0.65 U |

= - detected, J - estimated, U - not detected, R - rejected.

**Table I-11. Sediment Pesticides and PCBs**

| Location | Melt Pour Area Drainage Ditches Aggregate | Melt Pour Area Drainage Ditches Aggregate | Main Stream Segment Upstream of Perimeter Road | Main Stream Segment Upstream of Perimeter Road |
|---|---|---|---|---|
| Station | LL4-013(p2) | LL4sd-021(d) | LL4sd/sw-044(d) | LL4-048(p2) |
| Sample ID | LL40953 | LL40954 | LL40955 | LL40957 |
| Customer ID | LL4sd-013-0953-SD | LL4sd-021-0954-SD | LL4sd-044-0955-SD | LL4sd-048-0957-SD |
| Date | 08/11/2001 | 08/11/2001 | 08/13/2001 | 08/20/2001 |
| Depth (ft) | 0 - 0.5 | 0 - 0.5 | 0 - 0.5 | 0 - 0.5 |
| Field Type | Grab | Grab | Grab | Grab |
| Analyte (mg/kg) | | | | |
| 4,4'-DDD | 0.0023 U | | | 0.003 U |
| 4,4'-DDE | 0.0023 U | | | 0.003 U |
| 4,4'-DDT | 0.0023 U | | | 0.003 U |
| Aldrin | 0.0023 U | | | 0.003 U |
| Dieldrin | 0.0023 U | | | 0.003 U |
| Endosulfan I | 0.0023 U | | | 0.003 U |
| Endosulfan II | 0.0023 U | | | 0.003 U |
| Endosulfan sulfate | 0.0023 U | | | 0.003 U |
| Endrin | 0.0023 UJ | | | 0.003 UJ |
| Endrin aldehyde | 0.0023 U | | | 0.003 U |
| Endrin ketone | 0.0023 U | | | 0.003 U |
| Heptachlor | 0.0023 U | | | 0.003 U |
| Heptachlor epoxide | 0.0023 U | | | 0.003 U |
| Lindane | 0.0023 U | | | 0.003 U |
| Methoxychlor | 0.0045 U | | | 0.0058 U |
| PCB-1016 | 0.045 U | 0.041 U | 0.051 U | 0.058 U |
| PCB-1221 | 0.045 U | 0.041 U | 0.051 U | 0.058 U |
| PCB-1232 | 0.045 U | 0.041 U | 0.051 U | 0.058 U |
| PCB-1242 | 0.045 U | 0.041 U | 0.051 U | 0.058 U |
| PCB-1248 | 0.045 U | 0.041 U | 0.051 U | 0.058 U |
| PCB-1254 | 0.045 U | 0.041 U | 0.051 U | 0.058 U |
| PCB-1260 | 0.045 U | 0.041 U | 0.051 U | 0.058 R |
| Toxaphene | 0.092 U | | | 0.12 U |
| alpha-BHC | 0.0023 U | | | 0.003 U |
| alpha-Chlordane | 0.0023 U | | | 0.003 U |
| beta-BHC | 0.0023 U | | | 0.003 U |
| delta-BHC | 0.0023 U | | | 0.003 R |
| gamma-Chlordane | 0.0023 U | | | 0.003 U |

Table I-11. Sediment Pesticides and PCBs (continued)

| Location | Main Stream Segment and Settling Pond | Melt Pour Area Drainage Ditches Aggregate | Melt Pour Area Drainage Ditches Aggregate | Main Stream Segment and Settling Pond |
|---|---|---|---|---|
| **Station** | **LL4-049(p2)** | **LL4sd-050(d)** | **LL4sd-051(d)** | **LL4sd/sw-052(p)** |
| **Sample ID** | **LL40959** | **LL40961** | **LL40962** | **LL40963** |
| **Customer ID** | **LL4sd-049-0959-SD** | **LL4sd-050-0961-SD** | **LL4sd-051-0962-SD** | **LL4sd-052-0963-SD** |
| **Date** | **08/20/2001** | **08/12/2001** | **08/13/2001** | **08/14/2001** |
| **Depth (ft)** | **0 - 0.5** | **0 - 0.5** | **0 - 0.5** | **0 - 0.5** |
| **Field Type** | **Grab** | **Grab** | **Grab** | **Grab** |
| **Analyte (mg/kg)** | | | | |
| 4,4'-DDD | | | | |
| 4,4'-DDE | | | | |
| 4,4'-DDT | | | | |
| Aldrin | | | | |
| Dieldrin | | | | |
| Endosulfan I | | | | |
| Endosulfan II | | | | |
| Endosulfan sulfate | | | | |
| Endrin | | | | |
| Endrin aldehyde | | | | |
| Endrin ketone | | | | |
| Heptachlor | | | | |
| Heptachlor epoxide | | | | |
| Lindane | | | | |
| Methoxychlor | | | | |
| PCB-1016 | 0.044 U | 0.043 U | 0.052 U | 0.14 U |
| PCB-1221 | 0.044 U | 0.043 U | 0.052 U | 0.14 U |
| PCB-1232 | 0.044 U | 0.043 U | 0.052 U | 0.14 U |
| PCB-1242 | 0.044 U | 0.043 U | 0.052 U | 0.14 U |
| PCB-1248 | 0.044 U | 0.043 U | 0.052 U | 0.14 U |
| PCB-1254 | 0.044 U | 0.043 U | 0.052 U | 0.14 U |
| PCB-1260 | 0.044 R | 0.043 U | 0.052 U | 0.14 U |
| Toxaphene | | | | |
| alpha-BHC | | | | |
| alpha-Chlordane | | | | |
| beta-BHC | | | | |
| delta-BHC | | | | |
| gamma-Chlordane | | | | |

**Table I-11. Sediment Pesticides and PCBs (continued)**

| Location | Main Stream Segment and Settling Pond | Main Stream Segment and Settling Pond | Main Stream Segment and Settling Pond | Melt Pour Area Drainage Ditches Aggregate | Exit Drainage Aggregate |
|---|---|---|---|---|---|
| Station | LL4sd/sw-053(p) | LL4sd/sw-054(p) | LL4sd/sw-055(p) | LL4sd/sw-056(p) | LL4sd/sw-057(p) |
| Sample ID | LL40965 | LL40967 | LL40969 | LL40971 | LL40973 |
| Customer ID | LL4sd-053-0965-SD | LL4sd-054-0967-SD | LL4sd-055-0969-SD | LL4sd-056-0971-SD | LL4sd-057-0973-SD |
| Date | 08/14/2001 | 08/14/2001 | 08/14/2001 | 08/13/2001 | 08/13/2001 |
| Depth (ft) | 0 - 0.5 | 0 - 0.5 | 0 - 0.5 | 0 - 0.5 | 0 - 0.5 |
| Field Type | Grab | Grab | Grab | Grab | Grab |
| Analyte (mg/kg) | | | | | |
| 4,4'-DDD | | 0.0092 U | | | |
| 4,4'-DDE | | 0.0092 U | | | |
| 4,4'-DDT | | 0.0092 U | | | |
| Aldrin | | 0.0092 U | | | |
| Dieldrin | | 0.0092 U | | | |
| Endosulfan I | | 0.0092 U | | | |
| Endosulfan II | | 0.0092 U | | | |
| Endosulfan sulfate | | 0.0092 U | | | |
| Endrin | | 0.0092 UJ | | | |
| Endrin aldehyde | | 0.0092 U | | | |
| Endrin ketone | | 0.0092 U | | | |
| Heptachlor | | 0.0092 U | | | |
| Heptachlor epoxide | | 0.0092 U | | | |
| Lindane | | 0.0092 U | | | |
| Methoxychlor | | 0.018 U | | | |
| PCB-1016 | 0.15 U | 0.18 U | 0.17 U | 0.048 U | 0.047 U |
| PCB-1221 | 0.15 U | 0.18 U | 0.17 U | 0.048 U | 0.047 U |
| PCB-1232 | 0.15 U | 0.18 U | 0.17 U | 0.048 U | 0.047 U |
| PCB-1242 | 0.15 U | 0.18 U | 0.17 U | 0.048 U | 0.047 U |
| PCB-1248 | 0.15 U | 0.18 U | 0.17 U | 0.048 U | 0.047 U |
| PCB-1254 | 0.15 U | 0.18 U | 0.17 U | 0.048 U | 0.047 U |
| PCB-1260 | 0.15 U | 0.18 U | 0.17 U | 0.048 U | 0.047 U |
| Toxaphene | | 0.36 U | | | |
| alpha-BHC | | 0.0092 U | | | |
| alpha-Chlordane | | 0.0092 U | | | |
| beta-BHC | | 0.0092 U | | | |
| delta-BHC | | 0.0092 U | | | |
| gamma-Chlordane | | 0.0092 U | | | |

Table I-11. Sediment Pesticides and PCBs (continued)

| Location | Exit Drainage Aggregate | Melt Pour Area Drainage Ditches Aggregate | Melt Pour Area Drainage Ditches Aggregate | Preparation and Receiving Areas Aggregate |
|---|---|---|---|---|
| Station | LL4sd/sw-058(d) | LL4-145 | LL4-145 | LL4-185 |
| Sample ID | LL40975 | LL40887 | LL41137 | LL40990 |
| Customer ID | LL4sd-058-0975-SD | LL4sd-145-0887-SD | LL4sd-145-1137-SD | LL4sd-185-0990-SD |
| Date | 08/20/2001 | 08/13/2001 | 08/13/2001 | 08/11/2001 |
| Depth (ft) | 0 - 0.5 | 0 - 0.5 | 0 - 0.5 | 0 - 0.5 |
| Field Type | Grab | Grab | Field Duplicate | Grab |
| Analyte (mg/kg) | | | | |
| 4,4'-DDD | 0.0044 U | 0.0023 U | 0.0022 U | 0.003 U |
| 4,4'-DDE | 0.0044 U | 0.0023 U | 0.0022 U | 0.003 U |
| 4,4'-DDT | 0.0044 U | 0.0023 U | 0.0022 U | 0.003 U |
| Aldrin | 0.0044 U | 0.0023 U | 0.0022 U | 0.003 U |
| Dieldrin | 0.0044 U | 0.0023 U | 0.0022 U | 0.003 U |
| Endosulfan I | 0.0044 U | 0.0023 U | 0.0022 U | 0.003 U |
| Endosulfan II | 0.0044 U | 0.0023 U | 0.0022 U | 0.003 U |
| Endosulfan sulfate | 0.0044 U | 0.0023 U | 0.0022 U | 0.003 U |
| Endrin | 0.0044 U | 0.0023 U | 0.0022 U | 0.003 UJ |
| Endrin aldehyde | 0.0044 U | 0.0023 U | 0.0022 U | 0.003 U |
| Endrin ketone | 0.0044 U | 0.0023 U | 0.0022 U | 0.003 U |
| Heptachlor | 0.0044 U | 0.0023 U | 0.0022 UJ | 0.003 U |
| Heptachlor epoxide | 0.0044 U | 0.0023 U | 0.0022 U | 0.003 U |
| Lindane | 0.0044 U | 0.0023 U | 0.0022 U | 0.003 U |
| Methoxychlor | 0.0086 U | 0.0044 U | 0.0043 U | 0.0057 U |
| PCB-1016 | 0.043 U | 0.044 U | 0.1 J | 0.057 U |
| PCB-1221 | 0.043 U | 0.044 U | 0.043 U | 0.057 U |
| PCB-1232 | 0.043 U | 0.044 U | 0.043 U | 0.057 U |
| PCB-1242 | 0.043 U | 0.044 U | 0.043 U | 0.057 U |
| PCB-1248 | 0.09 = | 0.044 U | 0.043 U | 0.057 U |
| PCB-1254 | 0.043 U | 0.044 U | 0.043 U | 0.057 U |
| PCB-1260 | 0.043 R | 0.044 U | 0.043 U | 0.057 U |
| Toxaphene | 0.18 U | 0.089 U | 0.087 U | 0.12 U |
| alpha-BHC | 0.0044 U | 0.0023 U | 0.0022 U | 0.003 U |
| alpha-Chlordane | 0.0044 U | 0.0023 U | 0.0022 U | 0.003 U |
| beta-BHC | 0.0044 U | 0.0023 U | 0.0022 UJ | 0.003 U |
| delta-BHC | 0.0044 R | 0.0023 U | 0.0022 UJ | 0.003 U |
| gamma-Chlordane | 0.0044 U | 0.0023 U | 0.0022 UJ | 0.003 U |

= - detected, J - estimated, U - not detected, R - rejected.

## Table I-12. Sediment Semivolatile Organic Compounds

| Location | | Melt Pour Area Drainage Ditches Aggregate | Main Stream Segment Upstream of Perimeter Road | Main Stream Segment and Settling Pond | Exit Drainage Aggregate | Melt Pour Area Drainage Ditches Aggregate | Melt Pour Area Drainage Ditches Aggregate | Preparation and Receiving Areas Aggregate |
|---|---|---|---|---|---|---|---|---|
| Station | | LL4-013(p2) | LL4-048(p2) | LL4sd/sw-054(p) | LL4sd/sw-058(d) | LL4-145 | LL4-145 | LL4-185 |
| Sample ID | | LL40953 | LL40957 | LL40967 | LL40975 | LL40887 | LL41137 | LL40990 |
| Customer ID | | LL4sd-013-0953-SD | LL4sd-048-0957-SD | LL4sd-054-0967-SD | LL4sd-058-0975-SD | LL4sd-145-0887-SD | LL4sd-145-1137 SD | LL4sd-185-0990-SD |
| Date | | 08/11/2001 | 08/20/2001 | 08/14/2001 | 08/20/2001 | 08/13/2001 | 08/13/2001 | 08/11/2001 |
| Depth (ft) | | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 |
| Field Type | | Grab | Grab | Grab | Grab | Grab | Field Duplicate | Grab |
| Analyte (mg/kg) | | | | | | | | |
| 1,2,4-Trichlorobenzene | mg/kg | 0.45 UJ | 0.58 UJ | 1.8 UJ | 0.43 UJ | 0.44 UJ | 0.43 UJ | 0.57 UJ |
| 1,2-Dichlorobenzene | mg/kg | 0.45 UJ | 0.58 UJ | 1.8 UJ | 0.43 UJ | 0.44 UJ | 0.43 UJ | 0.57 UJ |
| 1,3-Dichlorobenzene | mg/kg | 0.45 UJ | 0.58 UJ | 1.8 UJ | 0.43 UJ | 0.44 UJ | 0.43 UJ | 0.57 UJ |
| 1,4-Dichlorobenzene | mg/kg | 0.45 UJ | 0.58 UJ | 1.8 UJ | 0.43 UJ | 0.44 UJ | 0.43 UJ | 0.57 UJ |
| 2,4,5-Trichlorophenol | mg/kg | 0.45 UJ | 0.58 UJ | 1.8 UJ | 0.43 UJ | 0.44 UJ | 0.43 UJ | 0.57 UJ |
| 2,4,6-Trichlorophenol | mg/kg | 0.45 UJ | 0.58 UJ | 1.8 UJ | 0.43 UJ | 0.44 UJ | 0.43 UJ | 0.57 UJ |
| 2,4-Dichlorophenol | mg/kg | 0.45 UJ | 0.58 UJ | 1.8 UJ | 0.43 UJ | 0.44 UJ | 0.43 UJ | 0.57 UJ |
| 2,4-Dimethylphenol | mg/kg | 0.45 UJ | 0.58 UJ | 1.8 UJ | 0.43 UJ | 0.44 UJ | 0.43 UJ | 0.57 UJ |
| 2,4-Dinitrophenol | mg/kg | 1.1 UJ | 1.4 UJ | 4.3 UJ | 1 UJ | 1.1 UJ | 1 UJ | 1.4 UJ |
| 2,4-Dinitrotoluene | mg/kg | 0.45 UJ | 0.58 UJ | 1.8 UJ | 0.43 UJ | 0.44 UJ | 0.43 UJ | 0.57 UJ |
| 2,6-Dinitrotoluene | mg/kg | 0.45 UJ | 0.58 UJ | 1.8 UJ | 0.43 UJ | 0.44 UJ | 0.43 UJ | 0.57 UJ |
| 2-Chloronaphthalene | mg/kg | 0.45 UJ | 0.58 UJ | 1.8 UJ | 0.43 UJ | 0.44 UJ | 0.43 UJ | 0.57 UJ |
| 2-Chlorophenol | mg/kg | 0.45 UJ | 0.58 UJ | 1.8 UJ | 0.43 UJ | 0.44 UJ | 0.43 UJ | 0.57 UJ |
| 2-Methyl-4,6-dinitrophenol | mg/kg | 1.1 UJ | 1.4 UJ | 4.3 UJ | 1 UJ | 1.1 UJ | 1 UJ | 1.4 UJ |
| 2-Methylnaphthalene | mg/kg | 0.45 UJ | 0.58 UJ | 1.8 UJ | 0.43 UJ | 0.44 UJ | 0.43 UJ | 0.57 UJ |
| 2-Methylphenol | mg/kg | 0.45 UJ | 0.58 UJ | 1.8 UJ | 0.43 UJ | 0.44 UJ | 0.43 UJ | 0.57 UJ |
| 2-Nitrobenzenamine | mg/kg | 1.1 UJ | 1.4 UJ | 4.3 UJ | 1 UJ | 1.1 UJ | 1 UJ | 1.4 UJ |
| 2-Nitrophenol | mg/kg | 0.45 UJ | 0.58 UJ | 1.8 UJ | 0.43 UJ | 0.44 UJ | 0.43 UJ | 0.57 UJ |
| 3,3'-Dichlorobenzidine | mg/kg | 0.45 UJ | 0.58 UJ | 1.8 UJ | 0.43 UJ | 0.44 UJ | 0.43 UJ | 0.57 UJ |
| 3-Nitrobenzenamine | mg/kg | 1.1 UJ | 1.4 UJ | 4.3 UJ | 1 UJ | 1.1 UJ | 1 UJ | 1.4 UJ |
| 4-Bromophenyl phenyl ether | mg/kg | 0.45 UJ | 0.58 UJ | 1.8 UJ | 0.43 UJ | 0.44 UJ | 0.43 UJ | 0.57 UJ |
| 4-Chloro-3-methylphenol | mg/kg | 0.45 UJ | 0.58 UJ | 1.8 UJ | 0.43 UJ | 0.44 UJ | 0.43 UJ | 0.57 UJ |
| 4-Chlorobenzenamine | mg/kg | 0.45 UJ | 0.58 UJ | 1.8 UJ | 0.43 UJ | 0.44 UJ | 0.43 UJ | 0.57 UJ |

**Table I-12. Sediment Semivolatile Organic Compounds (continued)**

| Location | | Melt Pour Area Drainage Ditches Aggregate | Main Stream Segment Upstream of Perimeter Road | Main Stream Segment and Settling Pond | Exit Drainage Aggregate | Melt Pour Area Drainage Ditches Aggregate | Melt Pour Area Drainage Ditches Aggregate | Preparation and Receiving Areas Aggregate |
|---|---|---|---|---|---|---|---|---|
| **Station** | | **LL4-013(p2)** | **LL4-048(p2)** | **LL4sd/sw-054(p)** | **LL4sd/sw-058(d)** | **LL4-145** | **LL4-145** | **LL4-185** |
| **Sample ID** | | **LL40953** | **LL40957** | **LL40967** | **LL40975** | **LL40887** | **LL41137** | **LL40990** |
| **Customer ID** | | **LL4sd-013-0953-SD** | **LL4sd-048-0957-SD** | **LL4sd-054-0967-SD** | **LL4sd-058-0975-SD** | **LL4sd-145-0887-SD** | **LL4sd-145-1137 SD** | **LL4sd-185-0990-SD** |
| **Date** | | **08/11/2001** | **08/20/2001** | **08/14/2001** | **08/20/2001** | **08/13/2001** | **08/13/2001** | **08/11/2001** |
| **Depth (ft)** | | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** |
| **Field Type** | | **Grab** | **Grab** | **Grab** | **Grab** | **Grab** | **Field Duplicate** | **Grab** |
| **Analyte (mg/kg)** | | | | | | | | |
| 4-Chlorophenyl phenyl ether | mg/kg | 0.45 UJ | 0.58 UJ | 1.8 UJ | 0.43 UJ | 0.44 UJ | 0.43 UJ | 0.57 UJ |
| 4-Methylphenol | mg/kg | 0.45 UJ | 0.58 UJ | 1.8 UJ | 0.43 UJ | 0.44 UJ | 0.43 UJ | 0.57 UJ |
| 4-Nitrobenzenamine | mg/kg | 1.1 UJ | 1.4 UJ | 4.3 UJ | 1 UJ | 1.1 UJ | 1 UJ | 1.4 UJ |
| 4-Nitrophenol | mg/kg | 1.1 UJ | 1.4 UJ | 4.3 UJ | 1 UJ | 1.1 UJ | 1 UJ | 1.4 UJ |
| Acenaphthene | mg/kg | 0.45 UJ | 0.58 UJ | 1.8 UJ | 0.43 UJ | 0.44 UJ | 0.43 UJ | 0.57 UJ |
| Acenaphthylene | mg/kg | 0.45 UJ | 0.58 UJ | 1.8 UJ | 0.43 UJ | 0.44 UJ | 0.43 UJ | 0.57 UJ |
| Anthracene | mg/kg | 0.45 UJ | 0.58 UJ | 1.8 UJ | 0.43 UJ | 0.44 UJ | 0.43 UJ | 0.57 UJ |
| Benz(a)anthracene | mg/kg | 0.45 UJ | 0.58 UJ | 1.8 UJ | 0.43 UJ | 0.44 UJ | 0.43 UJ | 0.57 UJ |
| Benzenemethanol | mg/kg | 0.45 UJ | 0.58 UJ | 1.8 UJ | 0.43 UJ | 0.44 UJ | 0.43 UJ | 0.57 UJ |
| Benzo(a)pyrene | mg/kg | 0.45 UJ | 0.58 UJ | 1.8 UJ | 0.43 UJ | 0.44 UJ | 0.43 UJ | 0.57 UJ |
| Benzo(b)fluoranthene | mg/kg | 0.45 UJ | 0.58 UJ | 1.8 UJ | 0.43 UJ | 0.44 UJ | 0.43 UJ | 0.57 UJ |
| Benzo(ghi)perylene | mg/kg | 0.45 UJ | 0.58 UJ | 1.8 UJ | 0.43 UJ | 0.44 UJ | 0.43 UJ | 0.57 UJ |
| Benzo(k)fluoranthene | mg/kg | 0.45 UJ | 0.58 UJ | 1.8 UJ | 0.43 UJ | 0.44 UJ | 0.43 UJ | 0.57 UJ |
| Benzoic acid | mg/kg | 2.2 UJ | 2.8 UJ | 8.6 UJ | 2.1 UJ | 2.1 UJ | 2.1 UJ | 2.8 UJ |
| Bis(2-chloroethoxy)methane | mg/kg | 0.45 UJ | 0.58 UJ | 1.8 UJ | 0.43 UJ | 0.44 UJ | 0.43 UJ | 0.57 UJ |
| Bis(2-chloroethyl) ether | mg/kg | 0.45 UJ | 0.58 UJ | 1.8 UJ | 0.43 UJ | 0.44 UJ | 0.43 UJ | 0.57 UJ |
| Bis(2-chloroisopropyl) ether | mg/kg | 0.45 UJ | 0.58 UJ | 1.8 UJ | 0.43 UJ | 0.44 UJ | 0.43 UJ | 0.57 UJ |
| Bis(2-ethylhexyl)phthalate | mg/kg | 0.45 UJ | 0.58 UJ | 1.8 UJ | 0.43 UJ | 0.44 UJ | 0.43 UJ | 0.57 UJ |
| Butyl benzyl phthalate | mg/kg | 0.45 UJ | 0.58 UJ | 1.8 UJ | 0.43 UJ | 0.44 UJ | 0.43 UJ | 0.57 UJ |
| Carbazole | mg/kg | 0.45 UJ | 0.58 UJ | 1.8 UJ | 0.43 UJ | 0.44 UJ | 0.43 UJ | 0.57 UJ |
| Chrysene | mg/kg | 0.45 UJ | 0.58 UJ | 1.8 UJ | 0.43 UJ | 0.44 UJ | 0.43 UJ | 0.57 UJ |
| Di-n-butyl phthalate | mg/kg | 0.45 UJ | 0.58 UJ | 1.8 UJ | 0.43 UJ | 0.44 UJ | 0.43 UJ | 0.57 UJ |
| Di-n-octylphthalate | mg/kg | 0.45 UJ | 0.58 UJ | 1.8 UJ | 0.43 UJ | 0.44 UJ | 0.43 UJ | 0.57 UJ |

**Table I-12. Sediment Semivolatile Organic Compounds (continued)**

| Location | | Melt Pour Area Drainage Ditches Aggregate | Main Stream Segment Upstream of Perimeter Road | Main Stream Segment and Settling Pond | Exit Drainage Aggregate | Melt Pour Area Drainage Ditches Aggregate | Melt Pour Area Drainage Ditches Aggregate | Preparation and Receiving Areas Aggregate |
|---|---|---|---|---|---|---|---|---|
| **Station** | | LL4-013(p2) | LL4-048(p2) | LL4sd/sw-054(p) | LL4sd/sw-058(d) | LL4-145 | LL4-145 | LL4-185 |
| **Sample ID** | | LL40953 | LL40957 | LL40967 | LL40975 | LL40887 | LL41137 | LL40990 |
| **Customer ID** | | LL4sd-013-0953-SD | LL4sd-048-0957-SD | LL4sd-054-0967-SD | LL4sd-058-0975-SD | LL4sd-145-0887-SD | LL4sd-145-1137 SD | LL4sd-185-0990-SD |
| **Date** | | 08/11/2001 | 08/20/2001 | 08/14/2001 | 08/20/2001 | 08/13/2001 | 08/13/2001 | 08/11/2001 |
| **Depth (ft)** | | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 |
| **Field Type** | | Grab | Grab | Grab | Grab | Grab | Field Duplicate | Grab |
| **Analyte (mg/kg)** | | | | | | | | |
| Dibenz(a,h)anthracene | mg/kg | 0.45 UJ | 0.58 UJ | 1.8 UJ | 0.43 UJ | 0.44 UJ | 0.43 UJ | 0.57 UJ |
| Dibenzofuran | mg/kg | 0.45 UJ | 0.58 UJ | 1.8 UJ | 0.43 UJ | 0.44 UJ | 0.43 UJ | 0.57 UJ |
| Diethyl phthalate | mg/kg | 0.45 UJ | 0.58 UJ | 1.8 UJ | 0.43 UJ | 0.44 UJ | 0.43 UJ | 0.57 UJ |
| Dimethyl phthalate | mg/kg | 0.45 UJ | 0.58 UJ | 1.8 UJ | 0.43 UJ | 0.44 UJ | 0.43 UJ | 0.57 UJ |
| Fluoranthene | mg/kg | 0.45 UJ | 0.58 UJ | 1.8 UJ | 0.43 UJ | 0.12 J | 0.43 UJ | 0.57 UJ |
| Fluorene | mg/kg | 0.45 UJ | 0.58 UJ | 1.8 UJ | 0.43 UJ | 0.44 UJ | 0.43 UJ | 0.57 UJ |
| Hexachlorobenzene | mg/kg | 0.45 UJ | 0.58 UJ | 1.8 UJ | 0.43 UJ | 0.44 UJ | 0.43 UJ | 0.57 UJ |
| Hexachlorobutadiene | mg/kg | 0.45 UJ | 0.58 UJ | 1.8 UJ | 0.43 UJ | 0.44 UJ | 0.43 UJ | 0.57 UJ |
| Hexachlorocyclopentadiene | mg/kg | 0.45 UJ | 0.58 UJ | 1.8 UJ | 0.43 UJ | 0.44 UJ | 0.43 UJ | 0.57 UJ |
| Hexachloroethane | mg/kg | 0.45 UJ | 0.58 UJ | 1.8 UJ | 0.43 UJ | 0.44 UJ | 0.43 UJ | 0.57 UJ |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.45 UJ | 0.58 UJ | 1.8 UJ | 0.43 UJ | 0.44 UJ | 0.43 UJ | 0.57 UJ |
| Isophorone | mg/kg | 0.45 UJ | 0.58 UJ | 1.8 UJ | 0.43 UJ | 0.44 UJ | 0.43 UJ | 0.57 UJ |
| N-Nitroso-di-n-propylamine | mg/kg | 0.45 UJ | 0.58 UJ | 1.8 UJ | 0.43 UJ | 0.44 UJ | 0.43 UJ | 0.57 UJ |
| N-Nitrosodiphenylamine | mg/kg | 0.45 UJ | 0.58 UJ | 1.8 UJ | 0.43 UJ | 0.44 UJ | 0.43 UJ | 0.57 UJ |
| Naphthalene | mg/kg | 0.45 UJ | 0.58 UJ | 1.8 UJ | 0.43 UJ | 0.44 UJ | 0.43 UJ | 0.57 UJ |
| Nitrobenzene | mg/kg | 0.45 UJ | 0.58 UJ | 1.8 UJ | 0.43 UJ | 0.44 UJ | 0.43 UJ | 0.57 UJ |
| Pentachlorophenol | mg/kg | 0.45 UJ | 0.58 UJ | 1.8 UJ | 0.43 UJ | 0.44 UJ | 0.43 UJ | 0.57 UJ |
| Phenanthrene | mg/kg | 0.45 UJ | 0.58 UJ | 1.8 UJ | 0.43 UJ | 0.16 J | 0.43 UJ | 0.57 UJ |
| Phenol | mg/kg | 0.45 UJ | 0.58 UJ | 1.8 UJ | 0.43 UJ | 0.44 UJ | 0.43 UJ | 0.57 UJ |
| Pyrene | mg/kg | 0.45 UJ | 0.58 UJ | 1.8 UJ | 0.43 UJ | 0.12 J | 0.43 UJ | 0.57 UJ |

= - detected, J - estimated, U - not detected, R - rejected.

## Table I-13. Sediment Volatile Organic Compounds

| Location | Melt Pour Area Drainage Ditches Aggregate | Main Stream Segment Upstream of Perimeter Road | Main Stream Segment and Settling Pond | Exit Drainage Aggregate | Melt Pour Area Drainage Ditches Aggregate | Melt Pour Area Drainage Ditches Aggregate | Preparation and Receiving Areas Aggregate |
|---|---|---|---|---|---|---|---|
| **Station** | **LL4-013(p2)** | **LL4-048(p2)** | **LL4sd/sw-054(p)** | **LL4sd/sw-058(d)** | **LL4-145** | **LL4-145** | **LL4-185** |
| **Sample ID** | **LL40953** | **LL40957** | **LL40967** | **LL40975** | **LL40887** | **LL41137** | **LL40990** |
| **Customer ID** | **LL4sd-013-0953-SD** | **LL4sd-048-0957-SD** | **LL4sd-054-0967-SD** | **LL4sd-058-0975-SD** | **LL4sd-145-0887-SD** | **LL4sd-145-1137-SD** | **LL4sd-185-0990-SD** |
| **Date** | **08/11/2001** | **08/20/2001** | **08/14/2001** | **08/20/2001** | **08/13/2001** | **08/13/2001** | **08/11/2001** |
| **Depth (ft)** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** | **0 - 1** |
| **Field Type** | **Grab** | **Grab** | **Grab** | **Grab** | **Grab** | **Field Duplicate** | **Grab** |
| **Analyte (mg/kg)** | | | | | | | |
| 1,1,1-Trichloroethane | 0.0069 U | 0.0088 U | 0.027 U | 0.0065 U | 0.0068 U | 0.0065 U | 0.0087 U |
| 1,1,2,2-Tetrachloroethane | 0.0069 U | 0.0088 U | 0.027 U | 0.0065 U | 0.0068 U | 0.0065 U | 0.0087 UJ |
| 1,1,2-Trichloroethane | 0.0069 U | 0.0088 U | 0.027 U | 0.0065 U | 0.0068 U | 0.0065 U | 0.0087 U |
| 1,1-Dichloroethane | 0.0069 U | 0.0088 U | 0.027 U | 0.0065 U | 0.0068 U | 0.0065 U | 0.0087 U |
| 1,1-Dichloroethene | 0.0069 U | 0.0088 U | 0.027 U | 0.0065 U | 0.0068 U | 0.0065 U | 0.0087 U |
| 1,2-Dibromoethane | 0.0069 U | 0.0088 U | 0.027 U | 0.0065 U | 0.0068 U | 0.0065 U | 0.0087 U |
| 1,2-Dichloroethane | 0.0069 U | 0.0088 U | 0.027 U | 0.0065 U | 0.0068 U | 0.0065 U | 0.0087 U |
| 1,2-Dichloroethene | 0.0069 U | 0.0088 U | 0.027 U | 0.0065 U | 0.0068 U | 0.0065 U | 0.0087 U |
| 1,2-Dichloropropane | 0.0069 U | 0.0088 U | 0.027 U | 0.0065 U | 0.0068 U | 0.0065 U | 0.0087 U |
| 2-Butanone | 0.028 UJ | 0.011 J | 0.11 = | 0.026 U | 0.027 U | 0.026 UJ | 0.013 J |
| 2-Hexanone | 0.028 U | 0.035 U | 0.11 U | 0.026 U | 0.027 U | 0.026 U | 0.035 U |
| 4-Methyl-2-pentanone | 0.028 U | 0.035 U | 0.11 U | 0.026 U | 0.027 U | 0.026 U | 0.035 U |
| Acetone | 0.028 UJ | 0.039 J | 0.41 J | 0.026 UJ | 0.0063 J | 0.026 UJ | 0.042 J |
| Benzene | 0.0069 U | 0.0088 U | 0.027 U | 0.0065 U | 0.0068 U | 0.0065 U | 0.0087 U |
| Bromochloromethane | 0.0069 U | 0.0088 U | 0.027 U | 0.0065 U | 0.0068 U | 0.0065 U | 0.0087 U |
| Bromodichloromethane | 0.0069 U | 0.0088 U | 0.027 U | 0.0065 U | 0.0068 U | 0.0065 U | 0.0087 U |
| Bromoform | 0.0069 U | 0.0088 U | 0.027 U | 0.0065 U | 0.0068 U | 0.0065 U | 0.0087 U |
| Bromomethane | 0.0069 U | 0.0088 U | 0.027 U | 0.0065 U | 0.0068 U | 0.0065 U | 0.0087 U |

**Table I-13. Sediment Volatile Organic Compounds (continued)**

| Location | Melt Pour Area Drainage Ditches Aggregate | Main Stream Segment Upstream of Perimeter Road | Main Stream Segment and Settling Pond | Exit Drainage Aggregate | Melt Pour Area Drainage Ditches Aggregate | Melt Pour Area Drainage Ditches Aggregate | Preparation and Receiving Areas Aggregate |
|---|---|---|---|---|---|---|---|
| Station | LL4-013(p2) | LL4-048(p2) | LL4sd/sw-054(p) | LL4sd/sw-058(d) | LL4-145 | LL4-145 | LL4-185 |
| Sample ID | LL40953 | LL40957 | LL40967 | LL40975 | LL40887 | LL41137 | LL40990 |
| Customer ID | LL4sd-013-0953-SD | LL4sd-048-0957-SD | LL4sd-054-0967-SD | LL4sd-058-0975-SD | LL4sd-145-0887-SD | LL4sd-145-1137-SD | LL4sd-185-0990-SD |
| Date | 08/11/2001 | 08/20/2001 | 08/14/2001 | 08/20/2001 | 08/13/2001 | 08/13/2001 | 08/11/2001 |
| Depth (ft) | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 |
| Field Type | Grab | Grab | Grab | Grab | Grab | Field Duplicate | Grab |
| Analyte (mg/kg) | | | | | | | |
| Carbon disulfide | 0.0069 U | 0.0088 U | 0.027 U | 0.0065 U | 0.0068 U | 0.0065 U | 0.0087 U |
| Carbon tetrachloride | 0.0069 U | 0.0088 U | 0.027 U | 0.0065 U | 0.0068 U | 0.0065 U | 0.0087 U |
| Chlorobenzene | 0.0069 U | 0.0088 U | 0.027 U | 0.0065 U | 0.0068 U | 0.0065 U | 0.0087 U |
| Chloroethane | 0.0069 U | 0.0088 U | 0.027 U | 0.0065 U | 0.0068 U | 0.0065 U | 0.0087 U |
| Chloroform | 0.0069 U | 0.0088 U | 0.027 U | 0.0065 U | 0.0068 U | 0.0065 U | 0.0087 U |
| Chloromethane | 0.0069 U | 0.0088 U | 0.027 U | 0.0065 U | 0.0068 U | 0.0065 U | 0.0087 U |
| Dibromochloromethane | 0.0069 U | 0.0088 U | 0.027 U | 0.0065 U | 0.0068 U | 0.0065 U | 0.0087 U |
| Dimethylbenzene | 0.0069 U | 0.0088 U | 0.027 U | 0.0065 U | 0.0068 U | 0.0065 U | 0.0087 U |
| Ethylbenzene | 0.0069 U | 0.0088 U | 0.027 U | 0.0065 U | 0.0068 U | 0.0065 U | 0.0087 U |
| Methylene chloride | 0.0069 U | 0.0088 U | 0.027 U | 0.0065 U | 0.0068 U | 0.0065 U | 0.0087 U |
| Styrene | 0.0069 U | 0.0088 U | 0.027 U | 0.0065 U | 0.0068 U | 0.0065 U | 0.0087 U |
| Tetrachloroethene | 0.0069 U | 0.0088 U | 0.027 U | 0.0065 U | 0.0068 U | 0.0065 U | 0.0087 U |
| Toluene | 0.0069 U | 0.0038 J | 0.027 U | 0.0065 U | 0.0068 U | 0.0065 U | 0.0051 J |
| Trichloroethene | 0.0069 U | 0.0088 U | 0.027 U | 0.0065 U | 0.0068 U | 0.0065 U | 0.0087 U |
| Vinyl chloride | 0.0069 U | 0.0088 U | 0.027 U | 0.0065 U | 0.0068 U | 0.0065 U | 0.0087 U |
| cis-1,3-Dichloropropene | 0.0069 U | 0.0088 U | 0.027 U | 0.0065 U | 0.0068 U | 0.0065 U | 0.0087 U |
| trans-1,3-Dichloropropene | 0.0069 U | 0.0088 U | 0.027 U | 0.0065 U | 0.0068 U | 0.0065 U | 0.0087 U |

= - detected, J - estimated, U - not detected, R - rejected.

**Table I-14. Sediment Total Organic Carbon**

| Location | Melt Pour Area Drainage Ditches Aggregate | Main Stream Segment Upstream of Perimeter Road | Main Stream Segment and Settling Pond | Melt Pour Area Drainage Ditches Aggregate | Exit Drainage Aggregate | Exit Drainage Aggregate | Preparation and Receiving Areas Aggregate |
|---|---|---|---|---|---|---|---|
| Station | LL4-013(p2) | LL4-048(p2) | LL4sd/sw-054(p) | LL4sd/sw-056(p) | LL4sd/sw-057(p) | LL4sd/sw-058(d) | LL4-185 |
| Sample ID | LL40953 | LL40957 | LL40967 | LL40971 | LL40973 | LL40975 | LL40990 |
| Customer ID | LL4sd-013-0953-SD | LL4sd-048-0957-SD | LL4sd-054-0967-SD | LL4sd-056-0971-SD | LL4sd-057-0973-SD | LL4sd-058-0975-SD | LL4sd-185-0990-SD |
| Date | 08/11/2001 | 08/20/2001 | 08/14/2001 | 08/13/2001 | 08/13/2001 | 08/20/2001 | 08/11/2001 |
| Depth (ft) | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 |
| Field Type | Grab | Grab | Grab | Grab | Grab | Grab | Grab |
| Analyte (mg/kg) | | | | | | | |
| Total Organic Carbon | 2500 = | 19000 = | 61000 = | 15000 = | 8200 = | 1900 = | 14000 = |

= - detected, J - estimated, U - not detected, R - rejected.

**Table I-15. Surface Water Inorganics**

| Location | Main Stream Segment Upstream of Perimeter Road | Main Stream Segment Upstream of Perimeter Road | Main Stream Segment and Settling Pond | Main Stream Segment and Settling Pond | Main Stream Segment and Settling Pond | Main Stream Segment and Settling Pond |
|---|---|---|---|---|---|---|
| **Station** | **LL4sd/sw-044(d)** | **LL4-048(p2)** | **LL4-049(p2)** | **LL4sd/sw-052(p)** | **LL4sd/sw-053(p)** | **LL4sd/sw-054(p)** |
| **Sample ID** | **LL40956** | **LL40958** | **LL40960** | **LL40964** | **LL40966** | **LL40968** |
| **Customer ID** | **LL4sw-044-0956-SW** | **LL4sw-048-0958-SW** | **LL4sw-049-0960-SW** | **LL4sw-052-0964-SW** | **LL4sw-053-0966-SW** | **LL4sw-054-0968-SW** |
| **Date** | **08/13/2001** | **08/20/2001** | **08/20/2001** | **08/14/2001** | **08/14/2001** | **08/14/2001** |
| **Filtered** | **Total** | **Total** | **Total** | **Total** | **Total** | **Total** |
| **Field Type** | **Grab** | **Grab** | **Grab** | **Grab** | **Grab** | **Grab** |
| **Analyte (mg/L)** | | | | | | |
| Aluminum | 0.28 U | 0.45 = | 1.1 = | 0.15 U | 0.22 U | 0.17 U |
| Antimony | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Arsenic | 0.0071 J * | 0.007 J * | 0.015 U | 0.015 U | 0.015 U | 0.015 U |
| Barium | 0.052 = * | 0.059 = * | 0.025 = | 0.029 = | 0.033 = | 0.034 = |
| Beryllium | 0.00066 U | 0.00085 U | 0.00085 U | 0.00082 U | 0.00076 U | 0.00081 U |
| Cadmium | 0.0003 J * | 0.005 U | 0.005 U | 0.005 U | 0.005 U | 0.005 U |
| Calcium | 61.6 = * | 34.6 = | 19.8 = | 22.5 = | 22.5 = | 22.6 = |
| Chromium | 0.005 U | 0.005 U | 0.005 U | 0.005 U | 0.005 U | 0.005 U |
| Cobalt | 0.005 U | 0.005 U | 0.005 U | 0.005 U | 0.005 U | 0.005 U |
| Copper | 0.015 U | 0.015 U | 0.015 U | 0.015 U | 0.015 U | 0.015 U |
| Cyanide | | | | | | 0.01 U |
| Iron | 1.2 = | 4.6 = * | 1.7 = | 0.72 = | 1.1 = | 1 = |
| Lead | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Magnesium | 16.6 = * | 9 = | 6.9 = | 8.2 = | 8.2 = | 8.2 = |
| Manganese | 3.6 = * | 3.2 = * | 0.081 = | 0.2 = | 0.35 = | 0.46 = * |
| Mercury | 0.0002 U | 0.000078 J * | 0.000092 J * | 0.0002 U | 0.0002 U | 0.0002 U |
| Nickel | 0.025 U | 0.025 U | 0.025 U | 0.025 U | 0.025 U | 0.025 U |
| Potassium | 3.3 J * | 3.1 J | 0.49 U | 0.87 J | 0.91 J | 0.92 J |
| Selenium | 0.02 U | 0.02 U | 0.02 U | 0.02 U | 0.02 U | 0.02 U |
| Silver | 0.005 U | 0.005 U | 0.005 U | 0.005 U | 0.005 U | 0.005 U |
| Sodium | 6.8 = | 5.1 = | 4.9 J | 3.7 J | 3.7 J | 3.6 J |
| Thallium | 0.002 UJ | 0.002 U | 0.002 U | 0.002 UJ | 0.002 UJ | 0.002 UJ |
| Vanadium | 0.007 U | 0.00099 J * | 0.0018 J * | 0.007 U | 0.007 U | 0.007 U |
| Zinc | 0.04 U | 0.02 J | 0.026 J | 0.04 U | 0.04 U | 0.016 J |

**Table I-15. Surface Water Inorganics (continued)**

| Location | Main Stream Segment and Settling Pond | Miscellaneous Water Samples Aggregate | Exit Drainage Aggregate | Exit Drainage Aggregate |
|---|---|---|---|---|
| **Station** | **LL4sd/sw-055(p)** | **LL4sd/sw-056(p)** | **LL4sd/sw-057(p)** | **LL4sd/sw-058(d)** |
| **Sample ID** | **LL40970** | **LL40972** | **LL40974** | **LL40976** |
| **Customer ID** | **LL4sw-055-0970-SW** | **LL4sw-056-0972-SW** | **LL4sw-057-0974-SW** | **LL4sw-058-0976-SW** |
| **Date** | **08/12/2001** | **08/13/2001** | **08/13/2001** | **08/14/2001** |
| **Filtered** | **Total** | **Total** | **Total** | **Total** |
| **Field Type** | **Grab** | **Grab** | **Grab** | **Grab** |
| **Analyte (mg/L)** | | | | |
| Aluminum | 0.16 U | 0.51 = | 0.65 U | 0.2 U |
| Antimony | 0.01 U | 0.01 U | 0.0025 J * | 0.01 U |
| Arsenic | 0.015 U | 0.015 U | 0.015 U | 0.015 U |
| Barium | 0.035 = | 0.049 = * | 0.042 = | 0.021 = |
| Beryllium | 0.00061 U | 0.00079 U | 0.00064 U | 0.00084 U |
| Cadmium | 0.005 U | 0.005 U | 0.005 U | 0.005 U |
| Calcium | 22.9 = | 49.5 = * | 49.2 = * | 53 = * |
| Chromium | 0.005 U | 0.005 U | 0.005 U | 0.005 U |
| Cobalt | 0.005 U | 0.005 U | 0.005 U | 0.005 U |
| Copper | 0.015 U | 0.015 U | 0.015 U | 0.015 U |
| Cyanide | | 0.01 U | | |
| Iron | 1.1 = | 1.7 = | 1.5 = | 0.22 J |
| Lead | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Magnesium | 8.2 = | 8.2 = | 7.3 = | 12.3 = * |
| Manganese | 0.51 = * | 0.43 = * | 0.34 = | 0.095 = |
| Mercury | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U |
| Nickel | 0.025 U | 0.025 U | 0.025 U | 0.025 U |
| Potassium | 0.91 J | 2.3 J | 2.8 J | 1.9 J |
| Selenium | 0.02 U | 0.02 U | 0.02 U | 0.02 U |
| Silver | 0.005 U | 0.005 U | 0.005 U | 0.005 U |
| Sodium | 3.7 J | 2.7 J | 2.2 J | 4.6 J |
| Thallium | 0.002 UJ | 0.002 UJ | 0.002 UJ | 0.002 U |
| Vanadium | 0.007 U | 0.0013 J * | 0.0014 J * | 0.007 U |
| Zinc | 0.04 U | 0.09 = * | 0.013 J | 0.013 J |

* - exceeds site-wide background criteria.

= - detected, J - estimated, U - not detected, R - rejected.

**Table I-16. Surface Water Explosives and Propellants**

| Location | Main Stream Segment Upstream of Perimeter Road | Main Stream Segment Upstream of Perimeter Road | Main Stream Segment and Settling Pond | Main Stream Segment and Settling Pond | Main Stream Segment and Settling Pond | Main Stream Segment and Settling Pond | Main Stream Segment and Settling Pond |
|---|---|---|---|---|---|---|---|
| Station | LL4sd/sw-044(d) | LL4-048(p2) | LL4-049(p2) | LL4sd/sw-052(p) | LL4sd/sw-053(p) | LL4sd/sw-054(p) | LL4sd/sw-055(p) |
| Sample ID | LL40956 | LL40958 | LL40960 | LL40964 | LL40966 | LL40968 | LL40970 |
| Customer ID | LL4sw-044-0956-SW | LL4sw-048-0958-SW | LL4sw-049-0960-SW | LL4sw-052-0964-SW | LL4sw-053-0966-SW | LL4sw-054-0968-SW | LL4sw-055-0970-SW |
| Date | 08/13/2001 | 08/20/2001 | 08/20/2001 | 08/14/2001 | 08/14/2001 | 08/14/2001 | 08/12/2001 |
| Filtered | Total | Total | Total | Total | Total | Total | Total |
| Field Type | Grab | Grab | Grab | Grab | Grab | Grab | Grab |
| Analyte (mg/L) | | | | | | | |
| 1,3,5-Trinitrobenzene | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U |
| 1,3-Dinitrobenzene | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U |
| 2,4,6-Trinitrotoluene | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U |
| 2,4-Dinitrotoluene | 0.00013 U | 0.00013 U | 0.00013 U | 0.00013 U | 0.00013 U | 0.00013 U | 0.00013 U |
| 2,6-Dinitrotoluene | 0.00013 U | 0.00013 U | 0.00013 U | 0.00013 U | 0.00013 U | 0.00013 U | 0.00013 U |
| 2-Amino-4,6-dinitrotoluene | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U |
| 2-Nitrotoluene | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U |
| 3-Nitrotoluene | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U |
| 4-Amino-2,6-dinitrotoluene | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U |
| 4-Nitrotoluene | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U |
| HMX | 0.0005 U | 0.0005 U | 0.0005 U | 0.0005 U | 0.0005 U | 0.0005 U | 0.0005 U |
| Nitrobenzene | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U |
| Nitrocellulose | | | | | | 0.5 U | |
| Nitroglycerin | 0.0025 U | 0.0025 U | 0.0025 U | 0.0025 U | 0.0025 U | 0.0025 U | 0.0025 U |
| Nitroguanidine | | | | | | 0.02 UJ | |
| RDX | 0.0005 U | 0.0005 U | 0.0005 U | 0.0005 U | 0.0005 U | 0.0005 U | 0.0005 U |
| Tetryl | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U |

**Table I-16. Surface Water Explosives and Propellants (continued)**

| Location | Miscellaneous Water Samples Aggregate | Exit Drainage Aggregate | Exit Drainage Aggregate |
|---|---|---|---|
| Station | LL4sd/sw-056(p) | LL4sd/sw-057(p) | LL4sd/sw-058(d) |
| Sample ID | LL40972 | LL40974 | LL40976 |
| Customer ID | LL4sw-056-0972-SW | LL4sw-057-0974-SW | LL4sw-058-0976-SW |
| Date | 08/13/2001 | 08/13/2001 | 08/14/2001 |
| Filtered | Total | Total | Total |
| Field Type | Grab | Grab | Grab |
| Analyte (mg/L) | | | |
| 1,3,5-Trinitrobenzene | 0.0002 U | 0.0002 U | 0.0002 U |
| 1,3-Dinitrobenzene | 0.0002 U | 0.0002 U | 0.0002 U |
| 2,4,6-Trinitrotoluene | 0.0002 U | 0.0002 U | 0.0002 U |
| 2,4-Dinitrotoluene | 0.00013 U | 0.00013 U | 0.00013 U |
| 2,6-Dinitrotoluene | 0.00013 U | 0.00013 U | 0.00013 U |
| 2-Amino-4,6-dinitrotoluene | 0.0002 U | 0.0002 U | 0.0002 U |
| 2-Nitrotoluene | 0.0002 U | 0.0002 U | 0.0002 U |
| 3-Nitrotoluene | 0.0002 U | 0.0002 U | 0.0002 U |
| 4-Amino-2,6-dinitrotoluene | 0.0002 U | 0.0002 U | 0.0002 U |
| 4-Nitrotoluene | 0.0002 U | 0.0002 U | 0.0002 U |
| HMX | 0.0005 U | 0.0005 U | 0.0005 U |
| Nitrobenzene | 0.0002 U | 0.0002 U | 0.0002 U |
| Nitrocellulose | | | |
| Nitroglycerin | 0.0025 U | 0.0025 U | 0.0025 U |
| Nitroguanidine | | | |
| RDX | 0.0005 U | 0.0005 U | 0.0005 U |
| Tetryl | 0.0002 U | 0.0002 U | 0.0002 U |

= - detected, J - estimated, U - not detected, R - rejected.

Table I-17. Surface Water Pesticides and PCBs

| Location | Main Stream Segment Upstream of Perimeter Road | Main Stream Segment Upstream of Perimeter Road | Main Stream Segment and Settling Pond | Main Stream Segment and Settling Pond | Main Stream Segment and Settling Pond |
|---|---|---|---|---|---|
| **Station** | **LL4sd/sw-044(d)** | **LL4-048(p2)** | **LL4-049(p2)** | **LL4sd/sw-052(p)** | **LL4sd/sw-053(p)** |
| **Sample ID** | **LL40956** | **LL40958** | **LL40960** | **LL40964** | **LL40966** |
| **Customer ID** | **LL4sw-044-0956-SW** | **LL4sw-048-0958-SW** | **LL4sw-049-0960-SW** | **LL4sw-052-0964-SW** | **LL4sw-053-0966-SW** |
| **Date** | **08/13/2001** | **08/20/2001** | **08/20/2001** | **08/14/2001** | **08/14/2001** |
| **Filtered** | **Total** | **Total** | **Total** | **Total** | **Total** |
| **Field Type** | **Grab** | **Grab** | **Grab** | **Grab** | **Grab** |
| **Analyte (mg/L)** | | | | | |
| 4,4'-DDD | | 0.00005 U | | | |
| 4,4'-DDE | | 0.00005 U | | | |
| 4,4'-DDT | | 0.00005 U | | | |
| Aldrin | | 0.00005 U | | | |
| Dieldrin | | 0.00005 U | | | |
| Endosulfan I | | 0.00005 U | | | |
| Endosulfan II | | 0.00005 U | | | |
| Endosulfan sulfate | | 0.00005 U | | | |
| Endrin | | 0.00005 U | | | |
| Endrin aldehyde | | 0.00005 U | | | |
| Endrin ketone | | 0.00005 U | | | |
| Heptachlor | | 0.00005 U | | | |
| Heptachlor epoxide | | 0.00005 U | | | |
| Lindane | | 0.00005 U | | | |
| Methoxychlor | | 0.0001 U | | | |
| PCB-1016 | 0.0005 U | 0.0005 U | 0.0005 U | 0.0005 U | 0.0005 U |
| PCB-1221 | 0.0005 U | 0.0005 U | 0.0005 U | 0.0005 U | 0.0005 U |
| PCB-1232 | 0.0005 U | 0.0005 U | 0.0005 U | 0.0005 U | 0.0005 U |
| PCB-1242 | 0.0005 U | 0.0005 U | 0.0005 U | 0.0005 U | 0.0005 U |
| PCB-1248 | 0.0005 U | 0.0005 U | 0.0005 U | 0.0005 U | 0.0005 U |
| PCB-1254 | 0.0005 U | 0.0005 U | 0.0005 U | 0.0005 U | 0.0005 U |
| PCB-1260 | 0.0005 U | 0.0005 U | 0.0005 U | 0.0005 U | 0.0005 U |
| Toxaphene | | 0.002 U | | | |
| alpha-BHC | | 0.00005 U | | | |
| alpha-Chlordane | | 0.00005 U | | | |
| beta-BHC | | 0.00005 U | | | |
| delta-BHC | | 0.00005 U | | | |
| gamma-Chlordane | | 0.00005 U | | | |

**Table I-17. Surface Water Pesticides and PCBs (continued)**

| Location | Main Stream Segment and Settling Pond | Main Stream Segment and Settling Pond | Miscellaneous Water Samples Aggregate | Exit Drainage Aggregate | Exit Drainage Aggregate |
|---|---|---|---|---|---|
| **Station** | **LL4sd/sw-054(p)** | **LL4sd/sw-055(p)** | **LL4sd/sw-056(p)** | **LL4sd/sw-057(p)** | **LL4sd/sw-058(d)** |
| **Sample ID** | **LL40968** | **LL40970** | **LL40972** | **LL40974** | **LL40976** |
| **Customer ID** | **LL4sw-054-0968-SW** | **LL4sw-055-0970-SW** | **LL4sw-056-0972-SW** | **LL4sw-057-0974-SW** | **LL4sw-058-0976-SW** |
| **Date** | **08/14/2001** | **08/12/2001** | **08/13/2001** | **08/13/2001** | **08/14/2001** |
| **Filtered** | **Total** | **Total** | **Total** | **Total** | **Total** |
| **Field Type** | **Grab** | **Grab** | **Grab** | **Grab** | **Grab** |
| **Analyte (mg/L)** | | | | | |
| 4,4'-DDD | 0.0001 U | | | | 0.00005 U |
| 4,4'-DDE | 0.0001 U | | | | 0.00005 U |
| 4,4'-DDT | 0.00031 = | | | | 0.00005 U |
| Aldrin | 0.0001 U | | | | 0.00005 U |
| Dieldrin | 0.0001 U | | | | 0.00005 U |
| Endosulfan I | 0.0001 U | | | | 0.00005 U |
| Endosulfan II | 0.0001 U | | | | 0.00005 U |
| Endosulfan sulfate | 0.0001 U | | | | 0.00005 U |
| Endrin | 0.0001 U | | | | 0.00005 U |
| Endrin aldehyde | 0.0001 U | | | | 0.00005 U |
| Endrin ketone | 0.0001 U | | | | 0.00005 U |
| Heptachlor | 0.0001 U | | | | 0.00005 U |
| Heptachlor epoxide | 0.0001 U | | | | 0.00005 U |
| Lindane | 0.0001 U | | | | 0.00005 U |
| Methoxychlor | 0.0002 U | | | | 0.0001 U |
| PCB-1016 | 0.0005 U | 0.0005 U | 0.0005 U | 0.0005 U | 0.0005 U |
| PCB-1221 | 0.0005 U | 0.0005 U | 0.0005 U | 0.0005 U | 0.0005 U |
| PCB-1232 | 0.0005 U | 0.0005 U | 0.0005 U | 0.0005 U | 0.0005 U |
| PCB-1242 | 0.0005 U | 0.0005 U | 0.0005 U | 0.0005 U | 0.0005 U |
| PCB-1248 | 0.0005 U | 0.0005 U | 0.0005 U | 0.0005 U | 0.0005 U |
| PCB-1254 | 0.0005 U | 0.0005 U | 0.0005 U | 0.0005 U | 0.0005 U |
| PCB-1260 | 0.0005 U | 0.0005 U | 0.0005 U | 0.0005 U | 0.0005 U |
| Toxaphene | 0.004 U | | | | 0.002 U |
| alpha-BHC | 0.0001 U | | | | 0.00005 U |
| alpha-Chlordane | 0.0001 U | | | | 0.00005 U |
| beta-BHC | 0.0001 U | | | | 0.00005 U |
| delta-BHC | 0.0001 U | | | | 0.00005 U |
| gamma-Chlordane | 0.0001 U | | | | 0.00005 U |

= - detected, J - estimated, U - not detected, R - rejected.

**Table I-18. Surface Water Semivolatile Organic Compounds**

| Location | Main Stream Segment Upstream of Perimeter Road | Main Stream Segment and Settling Pond | Exit Drainage Aggregate |
|---|---|---|---|
| **Station** | **LL4-048(p2)** | **LL4sd/sw-054(p)** | **LL4sd/sw-058(d)** |
| **Sample ID** | **LL40958** | **LL40968** | **LL40976** |
| **Customer ID** | **LL4sw-048-0958-SW** | **LL4sw-054-0968-SW** | **LL4sw-058-0976-SW** |
| **Date** | **08/20/2001** | **08/14/2001** | **08/14/2001** |
| **Filtered** | **Total** | **Total** | **Total** |
| **Field Type** | **Grab** | **Grab** | **Grab** |
| **Analyte (mg/L)** | | | |
| 1,2,4-Trichlorobenzene | 0.01 U | 0.01 U | 0.01 U |
| 1,2-Dichlorobenzene | 0.01 U | 0.01 U | 0.01 U |
| 1,3-Dichlorobenzene | 0.01 U | 0.01 U | 0.01 U |
| 1,4-Dichlorobenzene | 0.01 U | 0.01 U | 0.01 U |
| 2,4,5-Trichlorophenol | 0.01 U | 0.01 U | 0.01 U |
| 2,4,6-Trichlorophenol | 0.01 U | 0.01 U | 0.01 U |
| 2,4-Dichlorophenol | 0.01 U | 0.01 U | 0.01 U |
| 2,4-Dimethylphenol | 0.01 U | 0.01 U | 0.01 U |
| 2,4-Dinitrophenol | 0.025 U | 0.025 U | 0.025 U |
| 2,4-Dinitrotoluene | 0.01 U | 0.01 U | 0.01 U |
| 2,6-Dinitrotoluene | 0.01 U | 0.01 U | 0.01 U |
| 2-Chloronaphthalene | 0.01 U | 0.01 U | 0.01 U |
| 2-Chlorophenol | 0.01 U | 0.01 U | 0.01 U |
| 2-Methyl-4,6-dinitrophenol | 0.025 U | 0.025 U | 0.025 U |
| 2-Methylnaphthalene | 0.01 U | 0.01 U | 0.01 U |
| 2-Methylphenol | 0.01 U | 0.01 U | 0.01 U |
| 2-Nitrobenzenamine | 0.025 U | 0.025 U | 0.025 U |
| 2-Nitrophenol | 0.01 U | 0.01 U | 0.01 U |
| 3,3'-Dichlorobenzidine | 0.025 U | 0.025 U | 0.025 U |
| 3-Nitrobenzenamine | 0.025 U | 0.025 U | 0.025 U |
| 4-Bromophenyl phenyl ether | 0.01 U | 0.01 U | 0.01 U |
| 4-Chloro-3-methylphenol | 0.01 U | 0.01 U | 0.01 U |
| 4-Chlorobenzenamine | 0.01 U | 0.01 U | 0.01 U |
| 4-Chlorophenyl phenyl ether | 0.01 U | 0.01 U | 0.01 U |
| 4-Methylphenol | 0.01 U | 0.01 U | 0.01 U |
| 4-Nitrobenzenamine | 0.025 U | 0.025 U | 0.025 U |
| 4-Nitrophenol | 0.025 U | 0.025 U | 0.025 U |
| Acenaphthene | 0.01 U | 0.01 U | 0.01 U |
| Acenaphthylene | 0.01 U | 0.01 U | 0.01 U |
| Anthracene | 0.01 U | 0.01 U | 0.01 U |
| Benz(a)anthracene | 0.01 U | 0.01 U | 0.01 U |
| Benzenemethanol | 0.01 U | 0.01 U | 0.01 U |
| Benzo(a)pyrene | 0.01 U | 0.01 U | 0.01 U |
| Benzo(b)fluoranthene | 0.01 U | 0.01 U | 0.01 U |
| Benzo(ghi)perylene | 0.01 U | 0.01 U | 0.01 U |
| Benzo(k)fluoranthene | 0.01 U | 0.01 U | 0.01 U |
| Benzoic acid | 0.035 U | 0.035 U | 0.035 U |
| Bis(2-chloroethoxy)methane | 0.01 U | 0.01 U | 0.01 U |

**Table I-18. Surface Water Semivolatile Organic Compounds (continued)**

| Location | Main Stream Segment Upstream of Perimeter Road | Main Stream Segment and Settling Pond | Exit Drainage Aggregate |
|---|---|---|---|
| **Station** | **LL4-048(p2)** | **LL4sd/sw-054(p)** | **LL4sd/sw-058(d)** |
| **Sample ID** | **LL40958** | **LL40968** | **LL40976** |
| **Customer ID** | **LL4sw-048-0958-SW** | **LL4sw-054-0968-SW** | **LL4sw-058-0976-SW** |
| **Date** | **08/20/2001** | **08/14/2001** | **08/14/2001** |
| **Filtered** | **Total** | **Total** | **Total** |
| **Field Type** | **Grab** | **Grab** | **Grab** |
| **Analyte (mg/L)** | | | |
| Bis(2-chloroethyl) ether | 0.01 U | 0.01 U | 0.01 U |
| Bis(2-chloroisopropyl) ether | 0.01 U | 0.01 U | 0.01 U |
| Bis(2-ethylhexyl)phthalate | 0.01 UJ | 0.01 U | 0.01 U |
| Butyl benzyl phthalate | 0.01 U | 0.01 U | 0.01 U |
| Carbazole | 0.01 U | 0.01 U | 0.01 U |
| Chrysene | 0.01 U | 0.01 U | 0.01 U |
| Di-n-butyl phthalate | 0.01 U | 0.01 U | 0.01 U |
| Di-n-octylphthalate | 0.01 U | 0.01 U | 0.01 U |
| Dibenz(a,h)anthracene | 0.01 U | 0.01 U | 0.01 U |
| Dibenzofuran | 0.01 U | 0.01 U | 0.01 U |
| Diethyl phthalate | 0.01 U | 0.01 U | 0.01 U |
| Dimethyl phthalate | 0.01 U | 0.01 U | 0.01 U |
| Fluoranthene | 0.01 U | 0.01 U | 0.01 U |
| Fluorene | 0.01 U | 0.01 U | 0.01 U |
| Hexachlorobenzene | 0.01 U | 0.01 U | 0.01 U |
| Hexachlorobutadiene | 0.01 U | 0.01 U | 0.01 U |
| Hexachlorocyclopentadiene | 0.01 U | 0.01 U | 0.01 U |
| Hexachloroethane | 0.01 U | 0.01 U | 0.01 U |
| Indeno(1,2,3-cd)pyrene | 0.01 U | 0.01 U | 0.01 U |
| Isophorone | 0.01 U | 0.01 U | 0.01 U |
| N-Nitroso-di-n-propylamine | 0.01 U | 0.01 U | 0.01 U |
| N-Nitrosodiphenylamine | 0.01 U | 0.01 U | 0.01 U |
| Naphthalene | 0.01 U | 0.01 U | 0.01 U |
| Nitrobenzene | 0.01 U | 0.01 U | 0.01 U |
| Pentachlorophenol | 0.01 U | 0.01 U | 0.01 U |
| Phenanthrene | 0.01 U | 0.01 U | 0.01 U |
| Phenol | 0.01 U | 0.01 U | 0.01 U |
| Pyrene | 0.01 U | 0.01 U | 0.01 U |

= - detected, J - estimated, U - not detected, R - rejected.

**Table I-19. Surface Water Volatile Organic Compounds**

| Location | Main Stream Segment Upstream of Perimeter Road | Main Stream Segment and Settling Pond | Exit Drainage Aggregate |
|---|---|---|---|
| **Station** | **LL4-048(p2)** | **LL4sd/sw-054(p)** | **LL4sd/sw-058(d)** |
| **Sample ID** | **LL40958** | **LL40968** | **LL40976** |
| **Customer ID** | **LL4sw-048-0958-SW** | **LL4sw-054-0968-SW** | **LL4sw-058-0976-SW** |
| **Date** | **08/20/2001** | **08/14/2001** | **08/14/2001** |
| **Filtered** | **Total** | **Total** | **Total** |
| **Field Type** | **Grab** | **Grab** | **Grab** |
| **Analyte (mg/L)** | | | |
| 1,1,1-Trichloroethane | 0.001 U | 0.001 U | 0.001 U |
| 1,1,2,2-Tetrachloroethane | 0.001 UJ | 0.001 UJ | 0.001 UJ |
| 1,1,2-Trichloroethane | 0.001 U | 0.001 U | 0.001 U |
| 1,1-Dichloroethane | 0.001 U | 0.001 U | 0.001 U |
| 1,1-Dichloroethene | 0.001 U | 0.001 U | 0.001 U |
| 1,2-Dibromoethane | 0.001 U | 0.001 U | 0.001 U |
| 1,2-Dichloroethane | 0.001 U | 0.001 U | 0.001 U |
| 1,2-Dichloroethene | 0.001 U | 0.001 U | 0.001 U |
| 1,2-Dichloropropane | 0.001 U | 0.001 U | 0.001 U |
| 2-Butanone | 0.01 U | 0.01 U | 0.01 U |
| 2-Hexanone | 0.01 U | 0.01 U | 0.01 U |
| 4-Methyl-2-pentanone | 0.01 U | 0.01 U | 0.01 U |
| Acetone | 0.0037 U | 0.0031 J | 0.0012 J |
| Benzene | 0.001 U | 0.001 U | 0.001 U |
| Bromochloromethane | 0.001 U | 0.001 U | 0.001 U |
| Bromodichloromethane | 0.001 U | 0.001 U | 0.001 U |
| Bromoform | 0.001 U | 0.001 U | 0.001 U |
| Bromomethane | 0.001 UJ | 0.001 U | 0.001 U |
| Carbon disulfide | 0.001 UJ | 0.001 U | 0.001 U |
| Carbon tetrachloride | 0.001 U | 0.001 U | 0.001 U |
| Chlorobenzene | 0.001 U | 0.001 U | 0.001 U |
| Chloroethane | 0.001 UJ | 0.001 U | 0.001 U |
| Chloroform | 0.001 U | 0.001 U | 0.001 U |
| Chloromethane | 0.001 UJ | 0.001 U | 0.001 U |
| Dibromochloromethane | 0.001 U | 0.001 U | 0.001 U |
| Dimethylbenzene | 0.001 U | 0.001 U | 0.001 U |
| Ethylbenzene | 0.001 U | 0.001 U | 0.001 U |
| Methylene chloride | 0.001 U | 0.001 U | 0.001 U |
| Styrene | 0.001 U | 0.001 U | 0.001 U |
| Tetrachloroethene | 0.001 U | 0.001 U | 0.001 U |
| Toluene | 0.001 U | 0.001 U | 0.001 U |
| Trichloroethene | 0.001 U | 0.001 U | 0.001 U |
| Vinyl chloride | 0.001 UJ | 0.001 U | 0.001 U |
| cis-1,3-Dichloropropene | 0.001 U | 0.001 U | 0.001 U |
| trans-1,3-Dichloropropene | 0.001 U | 0.001 U | 0.001 U |

= - detected, J - estimated, U - not detected, R - rejected.

## Table I-20. Groundwater Inorganics

| Location | Groundwater Aggregate | Groundwater Aggregate | Groundwater Aggregate | Groundwater Aggregate | Groundwater Aggregate | Groundwater Aggregate | Groundwater Aggregate | Groundwater Aggregate | Groundwater Aggregate |
|---|---|---|---|---|---|---|---|---|---|
| Station | LL4mw-193 | LL4mw-194 | LL4mw-195 | LL4mw-196 | LL4mw-197 | LL4mw-198 | LL4mw-199 | LL4mw-199 | LL4mw-200 |
| Sample ID | LL41006 | LL41108 | LL41110 | LL41112 | LL41114 | LL41116 | LL41118 | LL41152 | LL41120 |
| Customer ID | LL4mw-193-1006-GW | LL4mw-194-1108-GW | LL4mw-195-1110-GW | LL4mw-196-1112-GW | LL4mw-197-1114-GW | LL4mw-198-1116-GW | LL4mw-199-1118-GW | LL4mw-199-1152-GW | LL4mw-200-1120-GW |
| Date | 09/05/2001 | 09/05/2001 | 09/04/2001 | 09/05/2001 | 09/07/2001 | 09/06/2001 | 09/06/2001 | 09/06/2001 | 09/06/2001 |
| Filtered | Dissolved | Dissolved | Dissolved | Dissolved | Dissolved | Dissolved | Dissolved | Dissolved | Dissolved |
| Field Type | Grab | Grab | Grab | Grab | Grab | Grab | Grab | Field Duplicate | Grab |
| Analyte (mg/L) | | | | | | | | | |
| Aluminum | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| Antimony | 0.01 U | 0.01 U | 0.0028 U | 0.01 U | 0.008 U | 0.0024 U | 0.01 U | 0.01 U | 0.01 U |
| Arsenic | 0.015 U | 0.015 U | 0.015 U | 0.015 U | 0.015 U | 0.013 J * | 0.0065 J | 0.015 U | 0.015 U |
| Barium | 0.022 = | 0.04 = | 0.047 = | 0.042 = | 0.017 = | 0.11 = * | 0.044 = | 0.026 = | 0.063 = |
| Beryllium | 0.005 U | 0.005 U | 0.005 U | 0.005 U | 0.005 U | 0.005 U | 0.005 U | 0.005 U | 0.005 U |
| Cadmium | 0.005 U | 0.005 U | 0.005 U | 0.00029 U | 0.00051 U | 0.00032 U | 0.005 U | 0.005 U | 0.00031 U |
| Calcium | 137 = * | 245 = * | 81.6 = | 120 = * | 31.8 = | 80.5 = | 116 = * | 155 = * | 115 = |
| Chromium | 0.005 U | 0.005 U | 0.005 U | 0.005 U | 0.005 U | 0.005 U | 0.005 U | 0.005 U | 0.005 U |
| Cobalt | 0.0017 U | 0.0038 U | 0.0018 U | 0.0025 U | 0.0046 U | 0.0017 U | 0.005 U | 0.002 U | 0.0034 U |
| Copper | 0.015 U | 0.015 U | 0.015 U | 0.015 U | 0.015 U | 0.015 U | 0.015 U | 0.015 U | 0.015 U |
| Cyanide[1] | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.01 = * | 0.01 U |
| Iron | 0.31 = * | 12.1 = * | 0.3 U | 0.3 U | 0.33 = * | 1.7 = * | 0.34 = * | 0.41 = * | 0.3 U |
| Lead | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Magnesium | 36.1 = | 68.1 = * | 22.1 = | 21.5 = | 13.8 = | 20.3 = | 34 = | 40.2 = | 34.8 = |
| Manganese | 0.54 = | 2.7 = * | 0.23 = | 0.89 = | 1.9 = * | 0.83 = | 0.35 = | 0.61 = | 0.39 = |
| Mercury | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U |
| Nickel | 0.025 U | 0.0035 J * | 0.0028 J * | 0.0041 J * | 0.016 J * | 0.025 U | 0.025 U | 0.025 U | 0.0048 J * |
| Potassium | 0.93 J | 1.5 J | 0.98 J | 2.1 J | 1.4 J | 2.6 J | 1.3 J | 1 J | 1.6 J |
| Selenium | 0.02 U | 0.02 U | 0.02 U | 0.02 U | 0.02 U | 0.02 U | 0.02 U | 0.02 U | 0.02 U |
| Silver | 0.005 U | 0.005 U | 0.005 U | 0.005 U | 0.005 U | 0.005 U | 0.005 U | 0.005 U | 0.005 U |
| Sodium | 5.1 = | 16.1 = | 2.3 J | 2.7 J | 4 J | 10 = | 11.9 = | 5.8 = | 10.5 = |
| Thallium | 0.002 U | 0.002 U | 0.002 U | 0.002 U | 0.002 U | 0.002 U | 0.002 U | 0.002 U | 0.002 U |
| Vanadium | 0.007 U | 0.007 U | 0.007 U | 0.007 U | 0.007 U | 0.007 U | 0.007 U | 0.007 U | 0.007 U |
| Zinc | 0.04 U | 0.04 U | 0.04 U | 0.04 U | 0.016 J | 0.04 U | 0.04 U | 0.04 U | 0.04 U |

* - exceeds site-wide background criteria.

= - detected, J - estimated, U - not detected, R - rejected.

1-Cyanide was measured in unfiltered samples.

## Table I-21. Groundwater Explosives and Propellants

| Location | Groundwater Aggregate | Groundwater Aggregate | Groundwater Aggregate | Groundwater Aggregate | Groundwater Aggregate |
|---|---|---|---|---|---|
| **Station** | **LL4mw-193** | **LL4mw-194** | **LL4mw-195** | **LL4mw-196** | **LL4mw-197** |
| **Sample ID** | **LL41006** | **LL41108** | **LL41110** | **LL41112** | **LL41114** |
| **Customer ID** | **LL4mw-193-1006-GW** | **LL4mw-194-1108-GW** | **LL4mw-195-1110-GW** | **LL4mw-196-1112-GW** | **LL4mw-197-1114-GW** |
| **Date** | **09/05/2001** | **09/05/2001** | **09/04/2001** | **09/05/2001** | **09/07/2001** |
| **Filtered** | **Total** | **Total** | **Total** | **Total** | **Total** |
| **Field Type** | **Grab** | **Grab** | **Grab** | **Grab** | **Grab** |
| **Analyte (mg/L)** | | | | | |
| 1,3,5-Trinitrobenzene | 0.0002 UJ | 0.0002 U | 0.0002 UJ | 0.0002 U | 0.0002 U |
| 1,3-Dinitrobenzene | 0.0002 UJ | 0.0002 U | 0.0002 UJ | 0.0002 U | 0.0002 UJ |
| 2,4,6-Trinitrotoluene | 0.0002 UJ | 0.0002 U | 0.0002 UJ | 0.0002 U | 0.0002 UJ |
| 2,4-Dinitrotoluene | 0.00013 UJ | 0.00013 U | 0.00013 UJ | 0.00013 U | 0.00013 UJ |
| 2,6-Dinitrotoluene | 0.00013 UJ | 0.00013 U | 0.00013 UJ | 0.00013 U | 0.00013 UJ |
| 2-Amino-4,6-dinitrotoluene | 0.0002 UJ | 0.0002 U | 0.0002 UJ | 0.0002 U | 0.0002 UJ |
| 2-Nitrotoluene | 0.0002 UJ | 0.0002 U | 0.0002 UJ | 0.0002 U | 0.0002 UJ |
| 3-Nitrotoluene | 0.0002 UJ | 0.0002 U | 0.0002 UJ | 0.0002 U | 0.0002 UJ |
| 4-Amino-2,6-dinitrotoluene | 0.0002 UJ | 0.0002 U | 0.0002 UJ | 0.0002 U | 0.0002 UJ |
| 4-Nitrotoluene | 0.0002 UJ | 0.0002 U | 0.0002 UJ | 0.0002 U | 0.0002 UJ |
| HMX | 0.0005 UJ | 0.0005 U | 0.0005 UJ | 0.0005 U | 0.0005 UJ |
| Nitrobenzene | 0.0002 UJ | 0.0002 U | 0.0002 UJ | 0.0002 U | 0.0002 UJ |
| Nitrocellulose | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Nitroglycerin | 0.0025 UJ | 0.0025 U | 0.0025 UJ | 0.0025 U | 0.0025 UJ |
| Nitroguanidine | 0.02 U | 0.02 U | 0.02 U | 0.02 U | 0.02 UJ |
| RDX | 0.0005 UJ | 0.0005 U | 0.0005 UJ | 0.0005 U | 0.0005 UJ |
| Tetryl | 0.0002 UJ | 0.0002 U | 0.0002 UJ | 0.0002 U | 0.0002 UJ |

**Table I-21. Groundwater Explosives and Propellants (continued)**

| Location | Groundwater Aggregate | Groundwater Aggregate | Groundwater Aggregate | Groundwater Aggregate |
|---|---|---|---|---|
| **Station** | **LL4mw-198** | **LL4mw-199** | **LL4mw-199** | **LL4mw-200** |
| **Sample ID** | **LL41116** | **LL41118** | **LL41152** | **LL41120** |
| **Customer ID** | **LL4mw-198-1116-GW** | **LL4mw-199-1118-GW** | **LL4mw-199-1152-GW** | **LL4mw-200-1120-GW** |
| **Date** | **09/06/2001** | **09/06/2001** | **09/06/2001** | **09/06/2001** |
| **Filtered** | **Total** | **Total** | **Total** | **Total** |
| **Field Type** | **Grab** | **Grab** | **Field Duplicate** | **Grab** |
| **Analyte (mg/L)** | | | | |
| 1,3,5-Trinitrobenzene | 0.0002 UJ | 0.0002 UJ | 0.0002 U | 0.0002 UJ |
| 1,3-Dinitrobenzene | 0.0002 UJ | 0.0002 UJ | 0.0002 U | 0.0002 UJ |
| 2,4,6-Trinitrotoluene | 0.0002 UJ | 0.0002 UJ | 0.0002 U | 0.0002 UJ |
| 2,4-Dinitrotoluene | 0.00013 UJ | 0.00013 UJ | 0.00013 U | 0.00013 UJ |
| 2,6-Dinitrotoluene | 0.00013 UJ | 0.00013 UJ | 0.00013 U | 0.00013 UJ |
| 2-Amino-4,6-dinitrotoluene | 0.0002 UJ | 0.0002 UJ | 0.0002 U | 0.0002 UJ |
| 2-Nitrotoluene | 0.0002 UJ | 0.0002 UJ | 0.0002 U | 0.0002 UJ |
| 3-Nitrotoluene | 0.0002 UJ | 0.0002 UJ | 0.0002 U | 0.0002 UJ |
| 4-Amino-2,6-dinitrotoluene | 0.0002 UJ | 0.0002 UJ | 0.0002 U | 0.0002 UJ |
| 4-Nitrotoluene | 0.0002 UJ | 0.0002 UJ | 0.0002 U | 0.0002 UJ |
| HMX | 0.0005 UJ | 0.0005 UJ | 0.0005 U | 0.0005 UJ |
| Nitrobenzene | 0.0002 UJ | 0.0002 UJ | 0.0002 U | 0.0002 UJ |
| Nitrocellulose | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Nitroglycerin | 0.0025 UJ | 0.0025 UJ | 0.0025 U | 0.0025 UJ |
| Nitroguanidine | 0.02 UJ | 0.02 U | 0.02 U | 0.02 UJ |
| RDX | 0.0005 UJ | 0.0005 UJ | 0.0005 U | 0.0005 UJ |
| Tetryl | 0.0002 UJ | 0.0002 UJ | 0.0002 U | 0.0002 UJ |

= - detected, J - estimated, U - not detected, R - rejected.

**Table I-22. Groundwater Pesticides and PCBs**

| Location | Groundwater Aggregate | Groundwater Aggregate | Groundwater Aggregate | Groundwater Aggregate | Groundwater Aggregate |
|---|---|---|---|---|---|
| **Station** | **LL4mw-193** | **LL4mw-194** | **LL4mw-195** | **LL4mw-196** | **LL4mw-197** |
| **Sample ID** | **LL41006** | **LL41108** | **LL41110** | **LL41112** | **LL41114** |
| **Customer ID** | **LL4mw-193-1006-GW** | **LL4mw-194-1108-GW** | **LL4mw-195-1110-GW** | **LL4mw-196-1112-GW** | **LL4mw-197-1114-GW** |
| **Date** | **09/05/2001** | **09/05/2001** | **09/04/2001** | **09/05/2001** | **09/07/2001** |
| **Filtered** | **Total** | **Total** | **Total** | **Total** | **Total** |
| **Field Type** | **Grab** | **Grab** | **Grab** | **Grab** | **Grab** |
| **Analyte (mg/L)** | | | | | |
| 4,4'-DDD | 0.00005 U | 0.00005 U | 0.00005 U | 0.00005 U | 0.00005 U |
| 4,4'-DDE | 0.00005 U | 0.00005 U | 0.00005 U | 0.00005 U | 0.00005 U |
| 4,4'-DDT | 0.00005 U | 0.00005 U | 0.00005 U | 0.00005 U | 0.00005 U |
| Aldrin | 0.00005 U | 0.00005 U | 0.00005 U | 0.00005 U | 0.00005 U |
| Dieldrin | 0.00005 U | 0.00005 U | 0.00005 U | 0.00005 U | 0.00005 U |
| Endosulfan I | 0.00005 U | 0.00005 U | 0.00005 U | 0.00005 U | 0.00005 U |
| Endosulfan II | 0.00005 U | 0.00005 U | 0.00005 U | 0.00005 U | 0.00005 U |
| Endosulfan sulfate | 0.00005 U | 0.00005 U | 0.00005 U | 0.00005 U | 0.00005 U |
| Endrin | 0.00005 U | 0.00005 U | 0.00005 U | 0.00005 U | 0.00005 U |
| Endrin aldehyde | 0.00005 U | 0.00005 U | 0.00005 U | 0.00005 U | 0.00005 U |
| Endrin ketone | 0.00005 U | 0.00005 U | 0.00005 U | 0.00005 U | 0.00005 U |
| Heptachlor | 0.00005 U | 0.00005 U | 0.00005 U | 0.00005 U | 0.00005 U |
| Heptachlor epoxide | 0.00005 U | 0.00005 U | 0.00005 U | 0.00005 U | 0.00005 U |
| Lindane | 0.00005 U | 0.00005 U | 0.00005 U | 0.00005 U | 0.00005 U |
| Methoxychlor | 0.0001 U | 0.0001 U | 0.0001 U | 0.0001 U | 0.0001 U |
| PCB-1016 | 0.0005 U | 0.0005 U | 0.0005 U | 0.0005 U | 0.0005 U |
| PCB-1221 | 0.0005 U | 0.0005 U | 0.0005 U | 0.0005 U | 0.0005 U |
| PCB-1232 | 0.0005 U | 0.0005 U | 0.0005 U | 0.0005 U | 0.0005 U |
| PCB-1242 | 0.0005 U | 0.0005 U | 0.0005 U | 0.0005 U | 0.0005 U |
| PCB-1248 | 0.0005 U | 0.0005 U | 0.0005 U | 0.0005 U | 0.0005 U |
| PCB-1254 | 0.0005 U | 0.0005 U | 0.0005 U | 0.0005 U | 0.0005 U |
| PCB-1260 | 0.0005 U | 0.0005 U | 0.0005 U | 0.0005 U | 0.0005 U |
| Toxaphene | 0.002 UJ | 0.002 UJ | 0.002 UJ | 0.002 UJ | 0.002 UJ |
| alpha-BHC | 0.00005 U | 0.00005 U | 0.00005 U | 0.00005 U | 0.00005 U |
| alpha-Chlordane | 0.00005 U | 0.00005 U | 0.00005 U | 0.00005 U | 0.00005 U |
| beta-BHC | 0.00005 U | 0.00005 U | 0.00005 U | 0.00005 U | 0.00005 U |
| delta-BHC | 0.00005 U | 0.00005 U | 0.00005 U | 0.00005 U | 0.00005 U |
| gamma-Chlordane | 0.00005 U | 0.00005 U | 0.00005 U | 0.00005 U | 0.00005 U |

**Table I-22. Groundwater Pesticides and PCBs (continued)**

| Location | Groundwater Aggregate | Groundwater Aggregate | Groundwater Aggregate | Groundwater Aggregate |
|---|---|---|---|---|
| **Station** | **LL4mw-198** | **LL4mw-199** | **LL4mw-199** | **LL4mw-200** |
| **Sample ID** | **LL41116** | **LL41118** | **LL41152** | **LL41120** |
| **Customer ID** | **LL4mw-198-1116-GW** | **LL4mw-199-1118-GW** | **LL4mw-199-1152-GW** | **LL4mw-200-1120-GW** |
| **Date** | **09/06/2001** | **09/06/2001** | **09/06/2001** | **09/06/2001** |
| **Filtered** | **Total** | **Total** | **Total** | **Total** |
| **Field Type** | **Grab** | **Grab** | **Field Duplicate** | **Grab** |
| **Analyte (mg/L)** | | | | |
| 4,4'-DDD | 0.00005 U | 0.00005 U | 0.00005 U | 0.00005 U |
| 4,4'-DDE | 0.00005 U | 0.00005 U | 0.00005 U | 0.00005 U |
| 4,4'-DDT | 0.00005 U | 0.00005 U | 0.00005 U | 0.00005 U |
| Aldrin | 0.00005 U | 0.00005 U | 0.00005 U | 0.00005 U |
| Dieldrin | 0.00005 U | 0.00005 U | 0.00005 U | 0.00005 U |
| Endosulfan I | 0.00005 U | 0.00005 U | 0.00005 U | 0.00005 U |
| Endosulfan II | 0.00005 U | 0.00005 U | 0.00005 U | 0.00005 U |
| Endosulfan sulfate | 0.00005 U | 0.00005 U | 0.00005 U | 0.00005 U |
| Endrin | 0.00005 U | 0.00005 U | 0.00005 U | 0.00005 U |
| Endrin aldehyde | 0.00005 U | 0.00005 U | 0.00005 U | 0.00005 U |
| Endrin ketone | 0.00005 U | 0.00005 U | 0.00005 U | 0.00005 U |
| Heptachlor | 0.00005 U | 0.00005 U | 0.00005 U | 0.00005 U |
| Heptachlor epoxide | 0.00005 U | 0.00005 U | 0.00005 U | 0.00005 U |
| Lindane | 0.00005 U | 0.00005 U | 0.00005 U | 0.00005 U |
| Methoxychlor | 0.0001 U | 0.0001 U | 0.0001 U | 0.0001 U |
| PCB-1016 | 0.0005 U | 0.0005 U | 0.0005 U | 0.0005 U |
| PCB-1221 | 0.0005 U | 0.0005 U | 0.0005 U | 0.0005 U |
| PCB-1232 | 0.0005 U | 0.0005 U | 0.0005 U | 0.0005 U |
| PCB-1242 | 0.0005 U | 0.0005 U | 0.0005 U | 0.0005 U |
| PCB-1248 | 0.0005 U | 0.0005 U | 0.0005 U | 0.0005 U |
| PCB-1254 | 0.0005 U | 0.0005 U | 0.0005 U | 0.0005 U |
| PCB-1260 | 0.0005 U | 0.0005 U | 0.0005 U | 0.0005 U |
| Toxaphene | 0.002 UJ | 0.002 UJ | 0.002 UJ | 0.002 UJ |
| alpha-BHC | 0.00005 U | 0.00005 U | 0.00005 U | 0.00005 U |
| alpha-Chlordane | 0.00005 U | 0.00005 U | 0.00005 U | 0.00005 U |
| beta-BHC | 0.00005 U | 0.00005 U | 0.00005 U | 0.00005 U |
| delta-BHC | 0.00005 U | 0.00005 U | 0.00005 U | 0.00005 U |
| gamma-Chlordane | 0.00005 U | 0.00005 U | 0.00005 U | 0.00005 U |

= - detected, J - estimated, U - not detected, R - rejected.

## Table I-23. Groundwater Semivolatile Organic Compounds

| Location | Groundwater Aggregate | Groundwater Aggregate | Groundwater Aggregate | Groundwater Aggregate | Groundwater Aggregate |
|---|---|---|---|---|---|
| Station | LL4mw-193 | LL4mw-194 | LL4mw-195 | LL4mw-196 | LL4mw-197 |
| Sample ID | LL41006 | LL41108 | LL41110 | LL41112 | LL41114 |
| Customer ID | LL4mw-193-1006-GW | LL4mw-194-1108-GW | LL4mw-195-1110-GW | LL4mw-196-1112-GW | LL4mw-197-1114-GW |
| Date | 09/05/2001 | 09/05/2001 | 09/04/2001 | 09/05/2001 | 09/07/2001 |
| Filtered | Total | Total | Total | Total | Total |
| Field Type | Grab | Grab | Grab | Grab | Grab |
| Analyte (mg/L) | | | | | |
| 1,2,4-Trichlorobenzene | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| 1,2-Dichlorobenzene | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| 1,3-Dichlorobenzene | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| 1,4-Dichlorobenzene | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| 2,4,5-Trichlorophenol | 0.01 U | 0.01 R | 0.01 U | 0.01 U | 0.01 U |
| 2,4,6-Trichlorophenol | 0.01 U | 0.01 R | 0.01 U | 0.01 U | 0.01 U |
| 2,4-Dichlorophenol | 0.01 U | 0.01 R | 0.01 U | 0.01 U | 0.01 U |
| 2,4-Dimethylphenol | 0.01 UJ | 0.01 R | 0.01 UJ | 0.01 UJ | 0.01 UJ |
| 2,4-Dinitrophenol | 0.025 U | 0.025 R | 0.025 U | 0.025 U | 0.025 U |
| 2,4-Dinitrotoluene | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| 2,6-Dinitrotoluene | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| 2-Chloronaphthalene | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| 2-Chlorophenol | 0.01 U | 0.01 R | 0.01 U | 0.01 U | 0.01 U |
| 2-Methyl-4,6-dinitrophenol | 0.025 U | 0.025 R | 0.025 U | 0.025 U | 0.025 U |
| 2-Methylnaphthalene | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| 2-Methylphenol | 0.01 U | 0.01 R | 0.01 U | 0.01 U | 0.01 U |
| 2-Nitrobenzenamine | 0.025 U | 0.025 U | 0.025 U | 0.025 U | 0.025 U |
| 2-Nitrophenol | 0.01 U | 0.01 R | 0.01 U | 0.01 U | 0.01 U |
| 3,3'-Dichlorobenzidine | 0.025 U | 0.025 U | 0.025 U | 0.025 U | 0.025 U |
| 3-Nitrobenzenamine | 0.025 U | 0.025 U | 0.025 U | 0.025 U | 0.025 U |
| 4-Bromophenyl phenyl ether | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| 4-Chloro-3-methylphenol | 0.01 U | 0.01 R | 0.01 U | 0.01 U | 0.01 U |
| 4-Chlorobenzenamine | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| 4-Chlorophenyl phenyl ether | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| 4-Methylphenol | 0.01 U | 0.01 R | 0.01 U | 0.01 U | 0.01 U |
| 4-Nitrobenzenamine | 0.025 U | 0.025 U | 0.025 U | 0.025 U | 0.025 U |
| 4-Nitrophenol | 0.025 U | 0.025 R | 0.025 U | 0.025 U | 0.025 U |
| Acenaphthene | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Acenaphthylene | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Anthracene | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Benz(a)anthracene | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Benzenemethanol | 0.01 U | 0.01 R | 0.01 U | 0.01 U | 0.01 U |
| Benzo(a)pyrene | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Benzo(b)fluoranthene | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Benzo(ghi)perylene | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Benzo(k)fluoranthene | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Benzoic acid | 0.035 U | 0.035 R | 0.035 U | 0.035 U | 0.035 U |
| Bis(2-chloroethoxy)methane | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Bis(2-chloroethyl) ether | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Bis(2-chloroisopropyl) ether | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U |

**Table I-23. Groundwater Semivolatile Organic Compounds**

| Location | Groundwater Aggregate | Groundwater Aggregate | Groundwater Aggregate | Groundwater Aggregate |
|---|---|---|---|---|
| **Station** | **LL4mw-198** | **LL4mw-199** | **LL4mw-199** | **LL4mw-200** |
| **Sample ID** | **LL41116** | **LL41118** | **LL41152** | **LL41120** |
| **Customer ID** | **LL4mw-198-1116-GW** | **LL4mw-199-1118-GW** | **LL4mw-199-1152-GW** | **LL4mw-200-1120-GW** |
| **Date** | **09/06/2001** | **09/06/2001** | **09/06/2001** | **09/06/2001** |
| **Filtered** | **Total** | **Total** | **Total** | **Total** |
| **Field Type** | **Grab** | **Grab** | **Field Duplicate** | **Grab** |
| **Analyte (mg/L)** | | | | |
| 1,2,4-Trichlorobenzene | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| 1,2-Dichlorobenzene | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| 1,3-Dichlorobenzene | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| 1,4-Dichlorobenzene | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| 2,4,5-Trichlorophenol | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| 2,4,6-Trichlorophenol | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| 2,4-Dichlorophenol | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| 2,4-Dimethylphenol | 0.01 UJ | 0.01 UJ | 0.01 UJ | 0.01 UJ |
| 2,4-Dinitrophenol | 0.025 U | 0.025 U | 0.025 U | 0.025 U |
| 2,4-Dinitrotoluene | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| 2,6-Dinitrotoluene | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| 2-Chloronaphthalene | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| 2-Chlorophenol | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| 2-Methyl-4,6-dinitrophenol | 0.025 U | 0.025 U | 0.025 U | 0.025 U |
| 2-Methylnaphthalene | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| 2-Methylphenol | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| 2-Nitrobenzenamine | 0.025 U | 0.025 U | 0.025 U | 0.025 U |
| 2-Nitrophenol | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| 3,3'-Dichlorobenzidine | 0.025 U | 0.025 U | 0.025 U | 0.025 U |
| 3-Nitrobenzenamine | 0.025 U | 0.025 U | 0.025 U | 0.025 U |
| 4-Bromophenyl phenyl ether | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| 4-Chloro-3-methylphenol | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| 4-Chlorobenzenamine | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| 4-Chlorophenyl phenyl ether | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| 4-Methylphenol | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| 4-Nitrobenzenamine | 0.025 U | 0.025 U | 0.025 U | 0.025 U |
| 4-Nitrophenol | 0.025 U | 0.025 U | 0.025 U | 0.025 U |
| Acenaphthene | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Acenaphthylene | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Anthracene | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Benz(a)anthracene | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Benzenemethanol | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Benzo(a)pyrene | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Benzo(b)fluoranthene | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Benzo(ghi)perylene | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Benzo(k)fluoranthene | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Benzoic acid | 0.035 U | 0.035 U | 0.035 U | 0.035 U |
| Bis(2-chloroethoxy)methane | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Bis(2-chloroethyl) ether | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Bis(2-chloroisopropyl) ether | 0.01 U | 0.01 U | 0.01 U | 0.01 U |

Table I-23. Groundwater Semivolatile Organic Compounds (continued)

| Location | Groundwater Aggregate | Groundwater Aggregate | Groundwater Aggregate | Groundwater Aggregate | Groundwater Aggregate |
|---|---|---|---|---|---|
| **Station** | **LL4mw-193** | **LL4mw-194** | **LL4mw-195** | **LL4mw-196** | **LL4mw-197** |
| **Sample ID** | **LL41006** | **LL41108** | **LL41110** | **LL41112** | **LL41114** |
| **Customer ID** | **LL4mw-193-1006-GW** | **LL4mw-194-1108-GW** | **LL4mw-195-1110-GW** | **LL4mw-196-1112-GW** | **LL4mw-197-1114-GW** |
| **Date** | **09/05/2001** | **09/05/2001** | **09/04/2001** | **09/05/2001** | **09/07/2001** |
| **Filtered** | **Total** | **Total** | **Total** | **Total** | **Total** |
| **Field Type** | **Grab** | **Grab** | **Grab** | **Grab** | **Grab** |
| **Analyte (mg/L)** | | | | | |
| Bis(2-ethylhexyl)phthalate | 0.01 U | 0.0044 J | 0.01 U | 0.01 U | 0.01 U |
| Butyl benzyl phthalate | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Carbazole | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Chrysene | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Di-n-butyl phthalate | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Di-n-octylphthalate | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Dibenz(a,h)anthracene | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Dibenzofuran | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Diethyl phthalate | 0.01 UJ | 0.01 UJ | 0.01 UJ | 0.01 UJ | 0.01 UJ |
| Dimethyl phthalate | 0.01 UJ | 0.01 UJ | 0.01 UJ | 0.01 UJ | 0.01 UJ |
| Fluoranthene | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Fluorene | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Hexachlorobenzene | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Hexachlorobutadiene | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Hexachlorocyclopentadiene | 0.01 R | 0.01 R | 0.01 R | 0.01 R | 0.01 R |
| Hexachloroethane | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Indeno(1,2,3-cd)pyrene | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Isophorone | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| N-Nitroso-di-n-propylamine | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| N-Nitrosodiphenylamine | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Naphthalene | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Nitrobenzene | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Pentachlorophenol | 0.01 U | 0.01 R | 0.01 U | 0.01 U | 0.01 U |
| Phenanthrene | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Phenol | 0.01 U | 0.01 R | 0.01 U | 0.01 U | 0.01 U |
| Pyrene | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U |

**Table I-23. Groundwater Semivolatile Organic Compounds (continued)**

| Location | Groundwater Aggregate | Groundwater Aggregate | Groundwater Aggregate | Groundwater Aggregate |
|---|---|---|---|---|
| **Station** | **LL4mw-198** | **LL4mw-199** | **LL4mw-199** | **LL4mw-200** |
| **Sample ID** | **LL41116** | **LL41118** | **LL41152** | **LL41120** |
| **Customer ID** | **LL4mw-198-1116-GW** | **LL4mw-199-1118-GW** | **LL4mw-199-1152-GW** | **LL4mw-200-1120-GW** |
| **Date** | **09/06/2001** | **09/06/2001** | **09/06/2001** | **09/06/2001** |
| **Filtered** | **Total** | **Total** | **Total** | **Total** |
| **Field Type** | **Grab** | **Grab** | **Field Duplicate** | **Grab** |
| **Analyte (mg/L)** | | | | |
| 1,2,4-Trichlorobenzene | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| 1,2-Dichlorobenzene | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| 1,3-Dichlorobenzene | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| 1,4-Dichlorobenzene | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| 2,4,5-Trichlorophenol | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| 2,4,6-Trichlorophenol | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| 2,4-Dichlorophenol | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| 2,4-Dimethylphenol | 0.01 UJ | 0.01 UJ | 0.01 UJ | 0.01 UJ |
| 2,4-Dinitrophenol | 0.025 U | 0.025 U | 0.025 U | 0.025 U |
| 2,4-Dinitrotoluene | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| 2,6-Dinitrotoluene | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| 2-Chloronaphthalene | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| 2-Chlorophenol | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| 2-Methyl-4,6-dinitrophenol | 0.025 U | 0.025 U | 0.025 U | 0.025 U |
| 2-Methylnaphthalene | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| 2-Methylphenol | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| 2-Nitrobenzenamine | 0.025 U | 0.025 U | 0.025 U | 0.025 U |
| 2-Nitrophenol | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| 3,3'-Dichlorobenzidine | 0.025 U | 0.025 U | 0.025 U | 0.025 U |
| 3-Nitrobenzenamine | 0.025 U | 0.025 U | 0.025 U | 0.025 U |
| 4-Bromophenyl phenyl ether | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| 4-Chloro-3-methylphenol | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| 4-Chlorobenzenamine | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| 4-Chlorophenyl phenyl ether | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| 4-Methylphenol | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| 4-Nitrobenzenamine | 0.025 U | 0.025 U | 0.025 U | 0.025 U |
| 4-Nitrophenol | 0.025 U | 0.025 U | 0.025 U | 0.025 U |
| Acenaphthene | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Acenaphthylene | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Anthracene | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Benz(a)anthracene | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Benzenemethanol | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Benzo(a)pyrene | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Benzo(b)fluoranthene | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Benzo(ghi)perylene | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Benzo(k)fluoranthene | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Benzoic acid | 0.035 U | 0.035 U | 0.035 U | 0.035 U |
| Bis(2-chloroethoxy)methane | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Bis(2-chloroethyl) ether | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Bis(2-chloroisopropyl) ether | 0.01 U | 0.01 U | 0.01 U | 0.01 U |

**Table I-23. Groundwater Semivolatile Organic Compounds (continued)**

| Location | Groundwater Aggregate | Groundwater Aggregate | Groundwater Aggregate | Groundwater Aggregate |
|---|---|---|---|---|
| **Station** | **LL4mw-198** | **LL4mw-199** | **LL4mw-199** | **LL4mw-200** |
| **Sample ID** | **LL41116** | **LL41118** | **LL41152** | **LL41120** |
| **Customer ID** | **LL4mw-198-1116-GW** | **LL4mw-199-1118-GW** | **LL4mw-199-1152-GW** | **LL4mw-200-1120-GW** |
| **Date** | **09/06/2001** | **09/06/2001** | **09/06/2001** | **09/06/2001** |
| **Filtered** | **Total** | **Total** | **Total** | **Total** |
| **Field Type** | **Grab** | **Grab** | **Field Duplicate** | **Grab** |
| **Analyte (mg/L)** | | | | |
| Bis(2-ethylhexyl)phthalate | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Butyl benzyl phthalate | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Carbazole | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Chrysene | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Di-n-butyl phthalate | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Di-n-octylphthalate | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Dibenz(a,h)anthracene | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Dibenzofuran | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Diethyl phthalate | 0.01 UJ | 0.01 UJ | 0.01 UJ | 0.01 UJ |
| Dimethyl phthalate | 0.01 UJ | 0.01 UJ | 0.01 UJ | 0.01 UJ |
| Fluoranthene | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Fluorene | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Hexachlorobenzene | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Hexachlorobutadiene | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Hexachlorocyclopentadiene | 0.01 R | 0.01 R | 0.01 R | 0.01 R |
| Hexachloroethane | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Indeno(1,2,3-cd)pyrene | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Isophorone | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| N-Nitroso-di-n-propylamine | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| N-Nitrosodiphenylamine | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Naphthalene | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Nitrobenzene | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Pentachlorophenol | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Phenanthrene | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Phenol | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Pyrene | 0.01 U | 0.01 U | 0.01 U | 0.01 U |

= - detected, J - estimated, U - not detected, R - rejected.

**Table I-24. Groundwater Volatile Organic Compounds**

| Location | Groundwater Aggregate | Groundwater Aggregate | Groundwater Aggregate | Groundwater Aggregate | Groundwater Aggregate | Groundwater Aggregate | Groundwater Aggregate | Groundwater Aggregate | Groundwater Aggregate |
|---|---|---|---|---|---|---|---|---|---|
| Station | LL4mw-193 | LL4mw-194 | LL4mw-195 | LL4mw-196 | LL4mw-197 | LL4mw-198 | LL4mw-199 | LL4mw-199 | LL4mw-200 |
| Sample ID | LL41006 | LL41108 | LL41110 | LL41112 | LL41114 | LL41116 | LL41118 | LL41152 | LL41120 |
| Customer ID | LL4mw-193-1006-GW | LL4mw-194-1108-GW | LL4mw-195-1110-GW | LL4mw-196-1112-GW | LL4mw-197-1114-GW | LL4mw-198-1116-GW | LL4mw-199-1118-GW | LL4mw-199-1152-GW | LL4mw-200-1120-GW |
| Date | 09/05/2001 | 09/05/2001 | 09/04/2001 | 09/05/2001 | 09/07/2001 | 09/06/2001 | 09/06/2001 | 09/06/2001 | 09/06/2001 |
| Filtered | Total | Total | Total | Total | Total | Total | Total | Total | Total |
| Field Type | Grab | Grab | Grab | Grab | Grab | Grab | Grab | Field Duplicate | Grab |
| Analyte (mg/L) | | | | | | | | | |
| 1,1,1-Trichloroethane | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U |
| 1,1,2,2-Tetrachloroethane | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U |
| 1,1,2-Trichloroethane | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U |
| 1,1-Dichloroethane | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U |
| 1,1-Dichloroethene | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U |
| 1,2-Dibromoethane | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U |
| 1,2-Dichloroethane | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U |
| 1,2-Dichloroethene | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U |
| 1,2-Dichloropropane | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U |
| 2-Butanone | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| 2-Hexanone | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| 4-Methyl-2-pentanone | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Acetone | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.012 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Benzene | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U |
| Bromochloromethane | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U |
| Bromodichloromethane | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U |
| Bromoform | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U |
| Bromomethane | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U |
| Carbon disulfide | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.0002 J |
| Carbon tetrachloride | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U |
| Chlorobenzene | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U |
| Chloroethane | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U |
| Chloroform | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U |
| Chloromethane | 0.00013 J | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.00048 J | 0.001 U |
| Dibromochloromethane | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U |

**Table I-24. Groundwater Volatile Organic Compounds (continued)**

| Location | Groundwater Aggregate | Groundwater Aggregate | Groundwater Aggregate | Groundwater Aggregate | Groundwater Aggregate | Groundwater Aggregate | Groundwater Aggregate | Groundwater Aggregate | Groundwater Aggregate |
|---|---|---|---|---|---|---|---|---|---|
| Station | LL4mw-193 | LL4mw-194 | LL4mw-195 | LL4mw-196 | LL4mw-197 | LL4mw-198 | LL4mw-199 | LL4mw-199 | LL4mw-200 |
| Sample ID | LL41006 | LL41108 | LL41110 | LL41112 | LL41114 | LL41116 | LL41118 | LL41152 | LL41120 |
| Customer ID | LL4mw-193-1006-GW | LL4mw-194-1108-GW | LL4mw-195-1110-GW | LL4mw-196-1112-GW | LL4mw-197-1114-GW | LL4mw-198-1116-GW | LL4mw-199-1118-GW | LL4mw-199-1152-GW | LL4mw-200-1120-GW |
| Date | 09/05/2001 | 09/05/2001 | 09/04/2001 | 09/05/2001 | 09/07/2001 | 09/06/2001 | 09/06/2001 | 09/06/2001 | 09/06/2001 |
| Filtered | Total | Total | Total | Total | Total | Total | Total | Total | Total |
| Field Type | Grab | Grab | Grab | Grab | Grab | Grab | Grab | Field Duplicate | Grab |
| Analyte (mg/L) | | | | | | | | | |
| Dimethylbenzene | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U |
| Ethylbenzene | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U |
| Methylene chloride | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U |
| Styrene | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U |
| Tetrachloroethene | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U |
| Toluene | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U |
| Trichloroethene | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U |
| Vinyl chloride | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U |
| cis-1,3-Dichloropropene | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U |
| trans-1,3-Dichloropropene | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U |

= - detected, J - estimated, U - not detected, R - rejected.

**Table I-25. Storm/Sanitary Sewers Sediment Inorganics**

| Location | Storm/Sanitary Sewers Sediment Samples Aggregate | Storm/Sanitary Sewers Sediment Samples Aggregate | Storm/Sanitary Sewers Sediment Samples Aggregate | Storm/Sanitary Sewers Sediment Samples Aggregate | Storm/Sanitary Sewers Sediment Samples Aggregate |
|---|---|---|---|---|---|
| **Station** | **LL4-176** | **LL4-177** | **LL4-177** | **LL4-178** | **LL4-186** |
| **Sample ID** | **LL40977** | **LL40979** | **LL41140** | **LL40980** | **LL40991** |
| **Customer ID** | **LL4sd-176-0977-SD** | **LL4sd-177-0979-SD** | **LL4sd-177-1140-SD** | **LL4sd-178-0980-SD** | **LL4sd-186-0991-SD** |
| **Date** | **08/12/2001** | **08/12/2001** | **08/12/2001** | **08/12/2001** | **08/20/2001** |
| **Depth (ft)** | **0 - 0.5** | **0 - 0.5** | **0 - 0.5** | **0 - 0.5** | **0 - 0.5** |
| **Field Type** | **Grab** | **Grab** | **Field Duplicate** | **Grab** | **Grab** |
| **Analyte (mg/kg)** | | | | | |
| Aluminum | 2280 = | 5340 = | 4990 = | 2990 = | 1600 = |
| Antimony | 1.5 UJ | 1.3 UJ | 1.3 UJ | 4.1 UJ | 4.3 UJ |
| Arsenic | 2.4 = | 5.5 = | 5.7 = | 7.9 = | 26.6 = * |
| Barium | 22.3 = | 37.3 = | 35.6 = | 80.3 = | 600 = * |
| Beryllium | 0.12 J | 0.3 J | 0.32 J | 0.21 J | 0.7 U |
| Cadmium | 0.3 J * | 0.37 J * | 0.34 J * | 2.9 = * | 21.5 U |
| Calcium | 9360 J * | 9690 J * | 10600 J * | 32000 J * | 130000 = * |
| Chromium | 3.7 = | 11.8 = | 10.4 = | 13 = | 2.2 U |
| Cobalt | 2.4 = | 4.7 = | 4.8 = | 4 = | 2.6 = |
| Copper | 7.6 = | 20.6 = | 21.3 = | 52.8 = * | 13.5 = |
| Iron | 7170 = | 16800 = | 19800 = | 25400 = | 155000 = * |
| Lead | 21.2 = | 21.5 = | 20.1 = | 62.8 = * | 251 J * |
| Magnesium | 988 = | 1640 = | 1560 = | 1720 J | 1590 J |
| Manganese | 171 = | 188 = | 206 = | 470 = | 30500 = * |
| Mercury | 0.024 J | 0.014 J | 0.014 J | 0.043 J | 0.07 J * |
| Nickel | 4.7 = | 15.5 = | 14 = | 15.9 = | 8.8 J |
| Potassium | 226 J | 541 J | 495 J | 521 J | 268 J |
| Selenium | 3 U | 2.7 U | 2.7 U | 2.5 J * | 86.1 U |
| Silver | 0.76 U | 0.66 U | 0.66 U | 2.1 U | 21.5 U |
| Sodium | 756 U | 663 U | 663 U | 2060 U | 2150 U |
| Thallium | 0.54 = | 0.41 J | 0.48 J | 1.2 = * | 2.3 = * |
| Vanadium | 4.4 = | 11.2 = | 11.6 = | 14.9 = | 13.3 = |
| Zinc | 109 = | 73.1 = | 67.5 = | 658 = * | 66.1 J |

**Table I-25. Storm/Sanitary Sewers Sediment Inorganics (continued)**

| Location | Storm/Sanitary Sewers Sediment Samples Aggregate | Storm/Sanitary Sewers Sediment Samples Aggregate | Storm/Sanitary Sewers Sediment Samples Aggregate | Storm/Sanitary Sewers Sediment Samples Aggregate | Storm/Sanitary Sewers Sediment Samples Aggregate |
|---|---|---|---|---|---|
| **Station** | **LL4-187** | **LL4-188** | **LL4-189** | **LL4-190** | **LL4-192** |
| **Sample ID** | **LL40993** | **LL40995** | **LL40997** | **LL40999** | **LL41003** |
| **Customer ID** | **LL4sd-187-0993-SD** | **LL4sd-188-0995-SD** | **LL4sd-189-0997-SD** | **LL4sd-190-0999-SD** | **LL4sd-192-1003-SD** |
| **Date** | **08/20/2001** | **08/20/2001** | **08/13/2001** | **08/13/2001** | **08/13/2001** |
| **Depth (ft)** | **0 - 0.5** | **0 - 0.5** | **0 - 0.5** | **0 - 0.5** | **0 - 0.5** |
| **Field Type** | **Grab** | **Grab** | **Grab** | **Grab** | **Grab** |
| **Analyte (mg/kg)** | | | | | |
| Aluminum | 9890 = | 5710 = | 1200 = | 5580 = | 8240 = |
| Antimony | 6.5 UJ | 2 UJ | 1.3 UJ | 1.3 UJ | 1.3 UJ |
| Arsenic | 157 = * | 18.8 = | 6.3 = | 6.7 = | 12.1 = |
| Barium | 294 = * | 39.5 = | 14.8 = | 46.8 = | 50.5 = |
| Beryllium | 2.5 J * | 0.71 U | 0.11 J | 0.49 J * | 0.46 J * |
| Cadmium | 3.1 J * | 0.87 J * | 0.18 J * | 0.84 = * | 0.33 J * |
| Calcium | 7220 = * | 3030 = | 595 J | 2860 J | 16500 J * |
| Chromium | 9.5 = | 7.7 = | 3.8 = | 11.6 = | 12.3 = |
| Cobalt | 45.6 = * | 10 = * | 3 = | 9.8 = * | 11.1 = * |
| Copper | 33.8 = * | 27.5 = | 4 = | 61.7 = * | 18 = |
| Iron | 198000 = * | 32500 = * | 8240 = | 17400 = | 21400 = |
| Lead | 26.9 J | 10.9 J | 14.2 = | 27.4 = | 16.9 = |
| Magnesium | 1930 J | 1210 = | 408 J | 1160 = | 3750 = * |
| Manganese | 4410 = * | 694 = | 155 = | 714 = | 476 = |
| Mercury | 0.65 U | 0.2 U | 0.28 = * | 0.071 J * | 0.035 J |
| Nickel | 63.6 J * | 17.9 J * | 3.9 = | 20.4 = * | 20.8 = * |
| Potassium | 721 J | 411 J | 160 J | 426 J | 1080 J |
| Selenium | 13 U | 4 U | 0.44 J | 2.7 U | 2.5 U |
| Silver | 3.2 U | 1 U | 0.67 U | 0.66 U | 0.63 U |
| Sodium | 3240 U | 997 U | 668 U | 663 U | 628 U |
| Thallium | 3.6 = * | 1.1 = * | 0.25 J | 0.56 = | 0.57 = |
| Vanadium | 29.1 = * | 10 = | 2.9 = | 9.5 = | 16.4 = |
| Zinc | 431 = | 230 = | 43.5 = | 237 = | 55.3 = |

* - exceeds site-wide background criteria.

= - detected, J - estimated, U - not detected, R - rejected.

**Table I-26. Storm/Sanitary Sewers Sediment Explosives and Propellants**

| Location | Storm/Sanitary Sewers Sediment Samples Aggregate | Storm/Sanitary Sewers Sediment Samples Aggregate | Storm/Sanitary Sewers Sediment Samples Aggregate | Storm/Sanitary Sewers Sediment Samples Aggregate | Storm/Sanitary Sewers Sediment Samples Aggregate |
|---|---|---|---|---|---|
| **Station** | **LL4-176** | **LL4-177** | **LL4-177** | **LL4-178** | **LL4-190** |
| **Sample ID** | **LL40977** | **LL40979** | **LL41140** | **LL40980** | **LL40999** |
| **Customer ID** | **LL4sd-176-0977-SD** | **LL4sd-177-0979-SD** | **LL4sd-177-1140-SD** | **LL4sd-178-0980-SD** | **LL4sd-190-0999-SD** |
| **Date** | **08/12/2001** | **08/12/2001** | **08/12/2001** | **08/12/2001** | **08/13/2001** |
| **Depth (ft)** | **0 - 0.5** | **0 - 0.5** | **0 - 0.5** | **0 - 0.5** | **0 - 0.5** |
| **Field Type** | **Grab** | **Grab** | **Field Duplicate** | **Grab** | **Grab** |
| **Analyte (mg/kg)** | | | | | |
| 1,3,5-Trinitrobenzene | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| 1,3-Dinitrobenzene | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| 2,4,6-Trinitrotoluene | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| 2,4-Dinitrotoluene | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| 2,6-Dinitrotoluene | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| 2-Amino-4,6-dinitrotoluene | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| 2-Nitrotoluene | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| 3-Nitrotoluene | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| 4-Amino-2,6-dinitrotoluene | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| 4-Nitrotoluene | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| HMX | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Nitrobenzene | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| Nitroglycerin | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| RDX | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Tetryl | 0.65 U | 0.65 U | 0.65 U | 0.65 U | 0.65 U |

= - detected, J - estimated, U - not detected, R - rejected.

Table I-27. Storm/Sanitary Sewers Sediment Pesticides and PCBs

| Location | Storm/Sanitary Sewers Sediment Samples Aggregate | Storm/Sanitary Sewers Sediment Samples Aggregate | Storm/Sanitary Sewers Sediment Samples Aggregate | Storm/Sanitary Sewers Sediment Samples Aggregate | Storm/Sanitary Sewers Sediment Samples Aggregate |
|---|---|---|---|---|---|
| **Station** | **LL4-176** | **LL4-177** | **LL4-177** | **LL4-178** | **LL4-186** |
| **Sample ID** | **LL40977** | **LL40979** | **LL41140** | **LL40980** | **LL40991** |
| **Customer ID** | **LL4sd-176-0977-SD** | **LL4sd-177-0979-SD** | **LL4sd-177-1140-SD** | **LL4sd-178-0980-SD** | **LL4sd-186-0991-SD** |
| **Date** | **08/12/2001** | **08/12/2001** | **08/12/2001** | **08/12/2001** | **08/20/2001** |
| **Depth (ft)** | **0 - 0.5** | **0 - 0.5** | **0 - 0.5** | **0 - 0.5** | **0 - 0.5** |
| **Field Type** | **Grab** | **Grab** | **Field Duplicate** | **Grab** | **Grab** |
| **Analyte (mg/kg)** | | | | | |
| 4,4'-DDD | | | | | |
| 4,4'-DDE | | | | | |
| 4,4'-DDT | | | | | |
| Aldrin | | | | | |
| Dieldrin | | | | | |
| Endosulfan I | | | | | |
| Endosulfan II | | | | | |
| Endosulfan sulfate | | | | | |
| Endrin | | | | | |
| Endrin aldehyde | | | | | |
| Endrin ketone | | | | | |
| Heptachlor | | | | | |
| Heptachlor epoxide | | | | | |
| Lindane | | | | | |
| Methoxychlor | | | | | |
| PCB-1016 | 0.05 U | 0.087 U | 0.044 U | 0.14 U | 0.14 U |
| PCB-1221 | 0.05 U | 0.087 U | 0.044 U | 0.14 U | 0.14 U |
| PCB-1232 | 0.05 U | 0.087 U | 0.044 U | 0.14 U | 0.14 U |
| PCB-1242 | 0.05 U | 0.087 U | 0.044 U | 0.14 U | 0.14 U |
| PCB-1248 | 0.05 U | 0.087 U | 0.044 U | 0.14 U | 0.14 U |
| PCB-1254 | 0.05 U | 0.087 U | 0.044 U | 0.14 U | 0.14 U |
| PCB-1260 | 0.05 U | 0.087 U | 0.044 U | 0.14 = | 0.14 R |
| Toxaphene | | | | | |
| alpha-BHC | | | | | |
| alpha-Chlordane | | | | | |
| beta-BHC | | | | | |
| delta-BHC | | | | | |
| gamma-Chlordane | | | | | |

**Table I-27. Storm/Sanitary Sewers Sediment Pesticides and PCBs**

| Location | Storm/Sanitary Sewers Sediment Samples Aggregate | Storm/Sanitary Sewers Sediment Samples Aggregate | Storm/Sanitary Sewers Sediment Samples Aggregate | Storm/Sanitary Sewers Sediment Samples Aggregate | Storm/Sanitary Sewers Sediment Samples Aggregate |
|---|---|---|---|---|---|
| **Station** | **LL4-187** | **LL4-188** | **LL4-189** | **LL4-190** | **LL4-192** |
| **Sample ID** | **LL40993** | **LL40995** | **LL40997** | **LL40999** | **LL41003** |
| **Customer ID** | **LL4sd-187-0993-SD** | **LL4sd-188-0995-SD** | **LL4sd-189-0997-SD** | **LL4sd-190-0999-SD** | **LL4sd-192-1003-SD** |
| **Date** | **08/20/2001** | **08/20/2001** | **08/13/2001** | **08/13/2001** | **08/13/2001** |
| **Depth (ft)** | **0 - 0.5** | **0 - 0.5** | **0 - 0.5** | **0 - 0.5** | **0 - 0.5** |
| **Field Type** | **Grab** | **Grab** | **Grab** | **Grab** | **Grab** |
| **Analyte (mg/kg)** | | | | | |
| 4,4'-DDD | 0.022 U | | 0.0045 U | | 0.0021 U |
| 4,4'-DDE | 0.022 U | | 0.01 J | | 0.0021 U |
| 4,4'-DDT | 0.022 U | | 0.0045 U | | 0.0021 U |
| Aldrin | 0.022 U | | 0.0045 U | | 0.0021 U |
| Dieldrin | 0.022 U | | 0.0081 J | | 0.0021 U |
| Endosulfan I | 0.022 U | | 0.0045 U | | 0.0021 U |
| Endosulfan II | 0.022 U | | 0.0045 U | | 0.0021 U |
| Endosulfan sulfate | 0.022 U | | 0.0045 U | | 0.0021 U |
| Endrin | 0.022 U | | 0.0045 U | | 0.0021 UJ |
| Endrin aldehyde | 0.022 U | | 0.012 J | | 0.0021 U |
| Endrin ketone | 0.022 U | | 0.0045 U | | 0.0021 U |
| Heptachlor | 0.022 U | | 0.0045 U | | 0.0021 U |
| Heptachlor epoxide | 0.022 U | | 0.0045 U | | 0.0021 U |
| Lindane | 0.022 U | | 0.0045 U | | 0.0021 U |
| Methoxychlor | 0.043 U | | 0.0088 U | | 0.0041 U |
| PCB-1016 | 0.21 U | 0.066 U | 0.044 U | 0.044 U | 0.041 U |
| PCB-1221 | 0.21 U | 0.066 U | 0.044 U | 0.044 U | 0.041 U |
| PCB-1232 | 0.21 U | 0.066 U | 0.044 U | 0.044 U | 0.041 U |
| PCB-1242 | 0.21 U | 0.066 U | 0.044 U | 0.044 U | 0.041 U |
| PCB-1248 | 0.21 U | 0.066 U | 0.044 U | 0.044 U | 0.041 U |
| PCB-1254 | 0.21 U | 0.066 U | 0.67 J | 0.044 U | 0.041 U |
| PCB-1260 | 0.21 R | 0.066 R | 0.044 U | 0.048 = | 0.041 U |
| Toxaphene | 0.87 U | | 0.18 U | | 0.084 U |
| alpha-BHC | 0.022 U | | 0.0045 U | | 0.0021 U |
| alpha-Chlordane | 0.022 U | | 0.0045 U | | 0.0021 U |
| beta-BHC | 0.044 J | | 0.0045 U | | 0.0021 U |
| delta-BHC | 0.022 R | | 0.0045 U | | 0.0021 U |
| gamma-Chlordane | 0.022 U | | 0.0061 J | | 0.0021 U |

= - detected, J - estimated, U - not detected, R - rejected.

**Table I-28. Storm/Sanitary Sewers Sediment Semivolatile Organic Compounds**

| Location | Storm/Sanitary Sewers Sediment Samples Aggregate | Storm/Sanitary Sewers Sediment Samples Aggregate | Storm/Sanitary Sewers Sediment Samples Aggregate |
|---|---|---|---|
| **Station** | **LL4-187** | **LL4-189** | **LL4-192** |
| **Sample ID** | **LL40993** | **LL40997** | **LL41003** |
| **Customer ID** | **LL4sd-187-0993-SD** | **LL4sd-189-0997-SD** | **LL4sd-192-1003-SD** |
| **Date** | **08/20/2001** | **08/13/2001** | **08/13/2001** |
| **Depth (ft)** | **0 - 0.5** | **0 - 0.5** | **0 - 0.5** |
| **Field Type** | **Grab** | **Grab** | **Grab** |
| **Analyte (mg/kg)** | | | |
| 1,2,4-Trichlorobenzene | 2.1 UJ | 0.88 UJ | 0.41 UJ |
| 1,2-Dichlorobenzene | 2.1 UJ | 0.88 UJ | 0.41 UJ |
| 1,3-Dichlorobenzene | 2.1 UJ | 0.88 UJ | 0.41 UJ |
| 1,4-Dichlorobenzene | 2.1 UJ | 0.88 UJ | 0.41 UJ |
| 2,4,5-Trichlorophenol | 2.1 UJ | 0.88 UJ | 0.41 UJ |
| 2,4,6-Trichlorophenol | 2.1 UJ | 0.88 UJ | 0.41 UJ |
| 2,4-Dichlorophenol | 2.1 UJ | 0.88 UJ | 0.41 UJ |
| 2,4-Dimethylphenol | 2.1 UJ | 0.88 UJ | 0.41 UJ |
| 2,4-Dinitrophenol | 5.2 UJ | 2.1 UJ | 1 UJ |
| 2,4-Dinitrotoluene | 2.1 UJ | 0.88 UJ | 0.41 UJ |
| 2,6-Dinitrotoluene | 2.1 UJ | 0.88 UJ | 0.41 UJ |
| 2-Chloronaphthalene | 2.1 UJ | 0.88 UJ | 0.41 UJ |
| 2-Chlorophenol | 2.1 UJ | 0.88 UJ | 0.41 UJ |
| 2-Methyl-4,6-dinitrophenol | 5.2 UJ | 2.1 UJ | 1 UJ |
| 2-Methylnaphthalene | 2.1 UJ | 0.88 UJ | 0.41 UJ |
| 2-Methylphenol | 2.1 UJ | 0.88 UJ | 0.41 UJ |
| 2-Nitrobenzenamine | 5.2 UJ | 2.1 UJ | 1 UJ |
| 2-Nitrophenol | 2.1 UJ | 0.88 UJ | 0.41 UJ |
| 3,3'-Dichlorobenzidine | 2.1 UJ | 0.88 UJ | 0.41 UJ |
| 3-Nitrobenzenamine | 5.2 UJ | 2.1 UJ | 1 UJ |
| 4-Bromophenyl phenyl ether | 2.1 UJ | 0.88 UJ | 0.41 UJ |
| 4-Chloro-3-methylphenol | 2.1 UJ | 0.88 UJ | 0.41 UJ |
| 4-Chlorobenzenamine | 2.1 UJ | 0.88 UJ | 0.41 UJ |
| 4-Chlorophenyl phenyl ether | 2.1 UJ | 0.88 UJ | 0.41 UJ |
| 4-Methylphenol | 2.1 UJ | 0.88 UJ | 0.41 UJ |
| 4-Nitrobenzenamine | 5.2 UJ | 2.1 UJ | 1 UJ |
| 4-Nitrophenol | 5.2 UJ | 2.1 UJ | 1 UJ |
| Acenaphthene | 2.1 UJ | 0.16 J | 0.41 UJ |
| Acenaphthylene | 2.1 UJ | 0.88 UJ | 0.41 UJ |
| Anthracene | 0.34 J | 0.84 J | 0.41 UJ |
| Benz(a)anthracene | 3.2 J | 1.8 J | 0.41 UJ |
| Benzenemethanol | 2.1 UJ | 0.88 UJ | 0.41 UJ |
| Benzo(a)pyrene | 3.5 J | 1.3 J | 0.41 UJ |
| Benzo(b)fluoranthene | 5.5 J | 1.7 J | 0.41 UJ |
| Benzo(ghi)perylene | 1.8 J | 0.52 J | 0.41 UJ |
| Benzo(k)fluoranthene | 1.7 J | 0.67 J | 0.41 UJ |
| Benzoic acid | 10 UJ | 4.3 UJ | 2 UJ |
| Bis(2-chloroethoxy)methane | 2.1 UJ | 0.88 UJ | 0.41 UJ |
| Bis(2-chloroethyl) ether | 2.1 UJ | 0.88 UJ | 0.41 UJ |

**Table I-28. Storm/Sanitary Sewers Sediment Semivolatile Organic Compounds (continued)**

| Location | Storm/Sanitary Sewers Sediment Samples Aggregate | Storm/Sanitary Sewers Sediment Samples Aggregate | Storm/Sanitary Sewers Sediment Samples Aggregate |
|---|---|---|---|
| **Station** | **LL4-187** | **LL4-189** | **LL4-192** |
| **Sample ID** | **LL40993** | **LL40997** | **LL41003** |
| **Customer ID** | **LL4sd-187-0993-SD** | **LL4sd-189-0997-SD** | **LL4sd-192-1003-SD** |
| **Date** | **08/20/2001** | **08/13/2001** | **08/13/2001** |
| **Depth (ft)** | **0 - 0.5** | **0 - 0.5** | **0 - 0.5** |
| **Field Type** | **Grab** | **Grab** | **Grab** |
| **Analyte (mg/kg)** | | | |
| Bis(2-chloroisopropyl) ether | 2.1 UJ | 0.88 UJ | 0.41 UJ |
| Bis(2-ethylhexyl)phthalate | 2.1 UJ | 0.88 UJ | 0.41 UJ |
| Butyl benzyl phthalate | 2.1 UJ | 0.88 UJ | 0.41 UJ |
| Carbazole | 2.1 UJ | 0.88 UJ | 0.41 UJ |
| Chrysene | 4 J | 1.7 J | 0.41 UJ |
| Di-n-butyl phthalate | 2.1 UJ | 0.88 UJ | 0.41 UJ |
| Di-n-octylphthalate | 2.1 UJ | 0.88 UJ | 0.41 UJ |
| Dibenz(a,h)anthracene | 0.51 J | 0.15 J | 0.41 UJ |
| Dibenzofuran | 2.1 UJ | 0.88 UJ | 0.41 UJ |
| Diethyl phthalate | 2.1 UJ | 0.88 UJ | 0.41 UJ |
| Dimethyl phthalate | 2.1 UJ | 0.88 UJ | 0.41 UJ |
| Fluoranthene | 4.4 J | 4.4 J | 0.41 UJ |
| Fluorene | 2.1 UJ | 0.39 J | 0.41 UJ |
| Hexachlorobenzene | 2.1 UJ | 0.88 UJ | 0.41 UJ |
| Hexachlorobutadiene | 2.1 UJ | 0.88 UJ | 0.41 UJ |
| Hexachlorocyclopentadiene | 2.1 UJ | 0.88 UJ | 0.41 UJ |
| Hexachloroethane | 2.1 UJ | 0.88 UJ | 0.41 UJ |
| Indeno(1,2,3-cd)pyrene | 1.8 J | 0.51 J | 0.41 UJ |
| Isophorone | 2.1 UJ | 0.88 UJ | 0.41 UJ |
| N-Nitroso-di-n-propylamine | 2.1 UJ | 0.88 UJ | 0.41 UJ |
| N-Nitrosodiphenylamine | 2.1 UJ | 0.88 UJ | 0.41 UJ |
| Naphthalene | 2.1 UJ | 0.88 UJ | 0.41 UJ |
| Nitrobenzene | 2.1 UJ | 0.88 UJ | 0.41 UJ |
| Pentachlorophenol | 2.1 UJ | 0.88 UJ | 0.41 UJ |
| Phenanthrene | 1.5 J | 3 J | 0.41 UJ |
| Phenol | 2.1 UJ | 0.88 UJ | 0.41 UJ |
| Pyrene | 4.9 J | 4.2 J | 0.41 UJ |

= - detected, J - estimated, U - not detected, R - rejected.

**Table I-29. Storm/Sanitary Sewers Sediment Volatile Organic Compounds**

| Location | Storm/Sanitary Sewers Sediment Samples Aggregate | Storm/Sanitary Sewers Sediment Samples Aggregate | Storm/Sanitary Sewers Sediment Samples Aggregate |
|---|---|---|---|
| **Station** | **LL4-187** | **LL4-189** | **LL4-192** |
| **Sample ID** | **LL40993** | **LL40997** | **LL41003** |
| **Customer ID** | **LL4sd-187-0993-SD** | **LL4sd-189-0997-SD** | **LL4sd-192-1003-SD** |
| **Date** | **08/20/2001** | **08/13/2001** | **08/13/2001** |
| **Depth (ft)** | **0 - 0.5** | **0 - 0.5** | **0 - 0.5** |
| **Field Type** | **Grab** | **Grab** | **Grab** |
| **Analyte (mg/kg)** | | | |
| 1,1,1-Trichloroethane | 0.032 U | 0.0067 U | 0.0063 U |
| 1,1,2,2-Tetrachloroethane | 0.032 U | 0.0067 U | 0.0063 U |
| 1,1,2-Trichloroethane | 0.032 U | 0.0067 U | 0.0063 U |
| 1,1-Dichloroethane | 0.032 U | 0.0067 U | 0.0063 U |
| 1,1-Dichloroethene | 0.032 U | 0.0067 U | 0.0063 U |
| 1,2-Dibromoethane | 0.032 U | 0.0067 U | 0.0063 U |
| 1,2-Dichloroethane | 0.032 U | 0.0067 U | 0.0063 U |
| 1,2-Dichloroethene | 0.032 U | 0.0067 U | 0.0063 U |
| 1,2-Dichloropropane | 0.032 U | 0.0067 U | 0.0063 U |
| 2-Butanone | 0.054 J | 0.027 UJ | 0.025 UJ |
| 2-Hexanone | 0.13 U | 0.027 U | 0.025 U |
| 4-Methyl-2-pentanone | 0.13 U | 0.027 U | 0.025 U |
| Acetone | 0.23 J | 0.027 UJ | 0.025 UJ |
| Benzene | 0.032 U | 0.0067 U | 0.0063 U |
| Bromochloromethane | 0.032 U | 0.0067 U | 0.0063 U |
| Bromodichloromethane | 0.032 U | 0.0067 U | 0.0063 U |
| Bromoform | 0.032 U | 0.0067 U | 0.0063 U |
| Bromomethane | 0.032 U | 0.0067 U | 0.0063 U |
| Carbon disulfide | 0.032 U | 0.0067 U | 0.0063 U |
| Carbon tetrachloride | 0.032 U | 0.0067 U | 0.0063 U |
| Chlorobenzene | 0.032 U | 0.0067 U | 0.0063 U |
| Chloroethane | 0.032 U | 0.0067 U | 0.0063 U |
| Chloroform | 0.032 U | 0.0067 U | 0.0063 U |
| Chloromethane | 0.032 U | 0.0067 U | 0.0063 U |
| Dibromochloromethane | 0.032 U | 0.0067 U | 0.0063 U |
| Dimethylbenzene | 0.032 U | 0.0067 U | 0.0063 U |
| Ethylbenzene | 0.032 U | 0.0067 U | 0.0063 U |
| Methylene chloride | 0.032 U | 0.0067 U | 0.0063 U |
| Styrene | 0.032 U | 0.0067 U | 0.0063 U |
| Tetrachloroethene | 0.032 U | 0.0067 U | 0.0063 U |
| Toluene | 0.0064 J | 0.0067 U | 0.0063 U |
| Trichloroethene | 0.032 U | 0.0067 U | 0.0063 U |
| Vinyl chloride | 0.032 U | 0.0067 U | 0.0063 U |
| cis-1,3-Dichloropropene | 0.032 U | 0.0067 U | 0.0063 U |
| trans-1,3-Dichloropropene | 0.032 U | 0.0067 U | 0.0063 U |

= - detected, J - estimated, U - not detected, R - rejected.

**Table I-30. Storm/Sanitary Sewers Surface Water Inorganics**

| Location | Storm/Sanitary Sewers Water Samples Aggregate | Storm/Sanitary Sewers Water Samples Aggregate | Storm/Sanitary Sewers Water Samples Aggregate | Storm/Sanitary Sewers Water Samples Aggregate |
|---|---|---|---|---|
| **Station** | **LL4-176** | **LL4-180** | **LL4-182** | **LL4-186** |
| **Sample ID** | **LL40978** | **LL40983** | **LL40987** | **LL40992** |
| **Customer ID** | **LL4sw-176-0978-SW** | **LL4sw-180-0983-SW** | **LL4sw-182-0987-SW** | **LL4sw-186-0992-SW** |
| **Date** | **08/12/2001** | **08/12/2001** | **08/12/2001** | **08/20/2001** |
| **Filtered** | **Total** | **Total** | **Total** | **Total** |
| **Field Type** | **Grab** | **Grab** | **Grab** | **Grab** |
| **Analyte (mg/L)** | | | | |
| Aluminum | 0.62 = | 0.19 U | 0.12 J | 0.047 U |
| Antimony | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Arsenic | 0.015 U | 0.015 U | 0.015 U | 0.015 U |
| Barium | 0.042 = | 0.041 = | 0.018 = | 0.03 = |
| Beryllium | 0.005 U | 0.00058 U | 0.005 U | 0.00078 U |
| Cadmium | 0.00029 J * | 0.00031 J * | 0.005 U | 0.005 U |
| Calcium | 45.6 = * | 62.8 = * | 26.8 = | 105 = * |
| Chromium | 0.005 U | 0.005 U | 0.005 U | 0.005 U |
| Cobalt | 0.005 U | 0.005 U | 0.005 U | 0.005 U |
| Copper | 0.0073 J | 0.015 U | 0.0092 J * | 0.015 U |
| Cyanide | | | | |
| Iron | 2.5 J | 0.23 J | 0.17 J | 0.14 J |
| Lead | 0.0094 J * | 0.01 U | 0.0064 J * | 0.01 U |
| Magnesium | 2.2 J | 3.8 J | 1.2 J | 16.1 = * |
| Manganese | 0.22 = | 0.01 J | 0.0086 J | 0.027 = |
| Mercury | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U |
| Nickel | 0.025 U | 0.025 U | 0.025 U | 0.025 U |
| Potassium | 3.6 J * | 1.8 J | 2 J | 2.3 J |
| Selenium | 0.02 U | 0.02 U | 0.02 U | 0.02 U |
| Silver | 0.005 U | 0.005 U | 0.005 U | 0.005 U |
| Sodium | 1 J | 0.8 J | 0.77 J | 2.4 J |
| Thallium | 0.002 U | 0.002 U | 0.002 U | 0.002 U |
| Vanadium | 0.002 U | 0.00092 J * | 0.0015 J * | 0.007 U |
| Zinc | 0.22 = * | 0.096 = * | 0.062 = * | 0.04 U |

**Table I-30. Storm/Sanitary Sewers Surface Water Inorganics (continued)**

| Location | Storm/Sanitary Sewers Water Samples Aggregate | Storm/Sanitary Sewers Water Samples Aggregate | Storm/Sanitary Sewers Water Samples Aggregate | Storm/Sanitary Sewers Water Samples Aggregate |
|---|---|---|---|---|
| **Station** | **LL4-187** | **LL4-188** | **LL4-189** | **LL4-189** |
| **Sample ID** | **LL40994** | **LL40996** | **LL40998** | **LL41154** |
| **Customer ID** | **LL4sw-187-0994-SW** | **LL4sw-188-0996-SW** | **LL4sw-189-0998-SW** | **LL4sw-189-1154-SW** |
| **Date** | **08/14/2001** | **08/20/2001** | **08/13/2001** | **08/13/2001** |
| **Filtered** | **Total** | **Total** | **Total** | **Total** |
| **Field Type** | **Grab** | **Grab** | **Grab** | **Field Duplicate** |
| **Analyte (mg/L)** | | | | |
| Aluminum | 0.064 U | 0.14 U | 0.089 J | 0.075 J |
| Antimony | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Arsenic | 0.015 U | 0.015 U | 0.015 U | 0.015 U |
| Barium | 0.016 = | 0.019 = | 0.014 = | 0.014 = |
| Beryllium | 0.005 U | 0.00078 U | 0.005 U | 0.005 U |
| Cadmium | 0.005 U | 0.005 U | 0.005 U | 0.005 U |
| Calcium | 21.2 = | 22.9 = | 26.1 = | 26.3 = |
| Chromium | 0.005 U | 0.005 U | 0.005 U | 0.005 U |
| Cobalt | 0.005 U | 0.005 U | 0.005 U | 0.005 U |
| Copper | 0.015 U | 0.015 U | 0.015 U | 0.015 U |
| Cyanide | 0.01 U | | 0.01 U | 0.01 U |
| Iron | 0.42 = | 0.25 J | 0.72 J | 0.69 J |
| Lead | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Magnesium | 6.9 = | 7.4 = | 6 = | 6.1 = |
| Manganese | 0.014 J | 0.027 = | 0.37 = | 0.37 = |
| Mercury | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U |
| Nickel | 0.025 U | 0.025 U | 0.025 U | 0.025 U |
| Potassium | 0.66 U | 0.9 J | 1.1 J | 1.1 J |
| Selenium | 0.02 U | 0.02 U | 0.02 U | 0.02 U |
| Silver | 0.005 U | 0.005 U | 0.005 U | 0.005 U |
| Sodium | 3.7 J | 3.2 J | 2.6 J | 2.7 J |
| Thallium | 0.002 UJ | 0.002 U | 0.002 U | 0.002 U |
| Vanadium | 0.007 U | 0.007 U | 0.007 U | 0.007 U |
| Zinc | 0.04 U | 0.014 J | 0.02 U | 0.014 U |

* - exceeds site-wide background criteria.

= - detected, J - estimated, U - not detected, R - rejected.

**Table I-31. Storm/Sanitary Sewers Surface Water Explosives and Propellants**

| Location | Storm/Sanitary Sewers Water Samples Aggregate | Storm/Sanitary Sewers Water Samples Aggregate | Storm/Sanitary Sewers Water Samples Aggregate | Storm/Sanitary Sewers Water Samples Aggregate |
|---|---|---|---|---|
| **Station** | **LL4-176** | **LL4-180** | **LL4-182** | **LL4-186** |
| **Sample ID** | **LL40978** | **LL40983** | **LL40987** | **LL40992** |
| **Customer ID** | **LL4sw-176-0978-SW** | **LL4sw-180-0983-SW** | **LL4sw-182-0987-SW** | **LL4sw-186-0992-SW** |
| **Date** | **08/12/2001** | **08/12/2001** | **08/12/2001** | **08/20/2001** |
| **Filtered** | **Total** | **Total** | **Total** | **Total** |
| **Field Type** | **Grab** | **Grab** | **Grab** | **Grab** |
| **Analyte (mg/L)** | | | | |
| 1,3,5-Trinitrobenzene | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U |
| 1,3-Dinitrobenzene | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U |
| 2,4,6-Trinitrotoluene | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U |
| 2,4-Dinitrotoluene | 0.00013 U | 0.00013 U | 0.00013 U | 0.00013 U |
| 2,6-Dinitrotoluene | 0.00013 U | 0.00013 U | 0.00013 U | 0.00013 U |
| 2-Amino-4,6-dinitrotoluene | 0.0003 = | 0.00013 J | 0.0002 U | 0.0002 U |
| 2-Nitrotoluene | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U |
| 3-Nitrotoluene | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U |
| 4-Amino-2,6-dinitrotoluene | 0.00034 = | 0.0003 = | 0.0002 U | 0.0002 U |
| 4-Nitrotoluene | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U |
| HMX | 0.0005 U | 0.0005 U | 0.0005 U | 0.0005 U |
| Nitrobenzene | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U |
| Nitrocellulose | | | | |
| Nitroglycerin | 0.0025 U | 0.0025 U | 0.0025 U | 0.0025 U |
| Nitroguanidine | | | | |
| RDX | 0.0005 U | 0.0005 U | 0.00046 J | 0.0005 U |
| Tetryl | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U |

**Table I-31. Storm/Sanitary Sewers Surface Water Explosives and Propellants (continued)**

| Location | Storm/Sanitary Sewers Water Samples Aggregate | Storm/Sanitary Sewers Water Samples Aggregate | Storm/Sanitary Sewers Water Samples Aggregate | Storm/Sanitary Sewers Water Samples Aggregate |
|---|---|---|---|---|
| **Station** | **LL4-187** | **LL4-188** | **LL4-189** | **LL4-189** |
| **Sample ID** | **LL40994** | **LL40996** | **LL40998** | **LL41154** |
| **Customer ID** | **LL4sw-187-0994-SW** | **LL4sw-188-0996-SW** | **LL4sw-189-0998-SW** | **LL4sw-189-1154-SW** |
| **Date** | **08/14/2001** | **08/20/2001** | **08/13/2001** | **08/13/2001** |
| **Filtered** | **Total** | **Total** | **Total** | **Total** |
| **Field Type** | **Grab** | **Grab** | **Grab** | **Field Duplicate** |
| **Analyte (mg/L)** | | | | |
| 1,3,5-Trinitrobenzene | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U |
| 1,3-Dinitrobenzene | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U |
| 2,4,6-Trinitrotoluene | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U |
| 2,4-Dinitrotoluene | 0.00013 U | 0.00013 U | 0.00013 U | 0.00013 U |
| 2,6-Dinitrotoluene | 0.00013 U | 0.00013 U | 0.00013 U | 0.00013 U |
| 2-Amino-4,6-dinitrotoluene | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U |
| 2-Nitrotoluene | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U |
| 3-Nitrotoluene | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U |
| 4-Amino-2,6-dinitrotoluene | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U |
| 4-Nitrotoluene | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U |
| HMX | 0.0005 U | 0.0005 U | 0.0005 U | 0.0005 U |
| Nitrobenzene | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U |
| Nitrocellulose | 0.5 U | | 0.5 U | 0.5 U |
| Nitroglycerin | 0.0025 U | 0.0025 U | 0.0025 U | 0.0025 U |
| Nitroguanidine | 0.02 UJ | | 0.02 UJ | 0.02 UJ |
| RDX | 0.0005 U | 0.0005 U | 0.0005 U | 0.0005 U |
| Tetryl | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U |

= - detected, J - estimated, U - not detected, R - rejected.

**Table I-32. Storm/Sanitary Sewers Surface Water Pesticides and PCBs**

| Location | Storm/Sanitary Sewers Water Samples Aggregate | Storm/Sanitary Sewers Water Samples Aggregate | Storm/Sanitary Sewers Water Samples Aggregate | Storm/Sanitary Sewers Water Samples Aggregate |
|---|---|---|---|---|
| **Station** | **LL4-176** | **LL4-180** | **LL4-182** | **LL4-186** |
| **Sample ID** | **LL40978** | **LL40983** | **LL40987** | **LL40992** |
| **Customer ID** | **LL4sw-176-0978-SW** | **LL4sw-180-0983-SW** | **LL4sw-182-0987-SW** | **LL4sw-186-0992-SW** |
| **Date** | **08/12/2001** | **08/12/2001** | **08/12/2001** | **08/20/2001** |
| **Filtered** | **Total** | **Total** | **Total** | **Total** |
| **Field Type** | **Grab** | **Grab** | **Grab** | **Grab** |
| **Analyte (mg/L)** | | | | |
| 4,4'-DDD | | | | |
| 4,4'-DDE | | | | |
| 4,4'-DDT | | | | |
| Aldrin | | | | |
| Dieldrin | | | | |
| Endosulfan I | | | | |
| Endosulfan II | | | | |
| Endosulfan sulfate | | | | |
| Endrin | | | | |
| Endrin aldehyde | | | | |
| Endrin ketone | | | | |
| Heptachlor | | | | |
| Heptachlor epoxide | | | | |
| Lindane | | | | |
| Methoxychlor | | | | |
| PCB-1016 | 0.0005 U | 0.0005 U | 0.0005 U | 0.0005 U |
| PCB-1221 | 0.0005 U | 0.0005 U | 0.0005 U | 0.0005 U |
| PCB-1232 | 0.0005 U | 0.0005 U | 0.0005 U | 0.0005 U |
| PCB-1242 | 0.0005 U | 0.0005 U | 0.0005 U | 0.0005 U |
| PCB-1248 | 0.0005 U | 0.0005 U | 0.0005 U | 0.0005 U |
| PCB-1254 | 0.0005 U | 0.0005 U | 0.0005 U | 0.0005 U |
| PCB-1260 | 0.0005 U | 0.0005 U | 0.0005 U | 0.0005 U |
| Toxaphene | | | | |
| alpha-BHC | | | | |
| alpha-Chlordane | | | | |
| beta-BHC | | | | |
| delta-BHC | | | | |
| gamma-Chlordane | | | | |

**Table I-32. Storm/Sanitary Sewers Surface Water Pesticides and PCBs (continued)**

| Location | Storm/Sanitary Sewers Water Samples Aggregate | Storm/Sanitary Sewers Water Samples Aggregate | Storm/Sanitary Sewers Water Samples Aggregate | Storm/Sanitary Sewers Water Samples Aggregate |
|---|---|---|---|---|
| **Station** | **LL4-187** | **LL4-188** | **LL4-189** | **LL4-189** |
| **Sample ID** | **LL40994** | **LL40996** | **LL40998** | **LL41154** |
| **Customer ID** | **LL4sw-187-0994-SW** | **LL4sw-188-0996-SW** | **LL4sw-189-0998-SW** | **LL4sw-189-1154-SW** |
| **Date** | **08/14/2001** | **08/20/2001** | **08/13/2001** | **08/13/2001** |
| **Filtered** | **Total** | **Total** | **Total** | **Total** |
| **Field Type** | **Grab** | **Grab** | **Grab** | **Field Duplicate** |
| **Analyte (mg/L)** | | | | |
| 4,4'-DDD | 0.00005 U | | 0.00005 UJ | 0.00005 UJ |
| 4,4'-DDE | 0.00005 U | | 0.00005 UJ | 0.00005 UJ |
| 4,4'-DDT | 0.00005 U | | 0.00005 UJ | 0.00005 UJ |
| Aldrin | 0.00005 U | | 0.00005 UJ | 0.00005 UJ |
| Dieldrin | 0.00005 U | | 0.00005 UJ | 0.00005 UJ |
| Endosulfan I | 0.00005 U | | 0.00005 UJ | 0.00005 UJ |
| Endosulfan II | 0.00005 U | | 0.00005 UJ | 0.00005 UJ |
| Endosulfan sulfate | 0.00005 U | | 0.00005 UJ | 0.00005 UJ |
| Endrin | 0.00005 U | | 0.00005 UJ | 0.00005 UJ |
| Endrin aldehyde | 0.00005 U | | 0.00005 UJ | 0.00005 UJ |
| Endrin ketone | 0.00005 U | | 0.00005 UJ | 0.00005 UJ |
| Heptachlor | 0.00005 U | | 0.00005 UJ | 0.00005 UJ |
| Heptachlor epoxide | 0.00005 U | | 0.00005 UJ | 0.00005 UJ |
| Lindane | 0.00005 U | | 0.00005 UJ | 0.00005 UJ |
| Methoxychlor | 0.0001 U | | 0.0001 UJ | 0.0001 UJ |
| PCB-1016 | 0.0005 U | 0.0005 U | 0.0005 U | |
| PCB-1221 | 0.0005 U | 0.0005 U | 0.0005 U | |
| PCB-1232 | 0.0005 U | 0.0005 U | 0.0005 U | |
| PCB-1242 | 0.0005 U | 0.0005 U | 0.0005 U | |
| PCB-1248 | 0.0005 U | 0.0005 U | 0.0005 U | |
| PCB-1254 | 0.0005 U | 0.0005 U | 0.0005 U | |
| PCB-1260 | 0.0005 U | 0.0005 U | 0.0005 U | |
| Toxaphene | 0.002 U | | 0.002 UJ | 0.002 UJ |
| alpha-BHC | 0.00005 U | | 0.00005 UJ | 0.00005 UJ |
| alpha-Chlordane | 0.00005 U | | 0.00005 UJ | 0.00005 UJ |
| beta-BHC | 0.00005 U | | 0.00005 UJ | 0.00005 UJ |
| delta-BHC | 0.00005 U | | 0.00005 UJ | 0.00005 UJ |
| gamma-Chlordane | 0.00005 U | | 0.00005 UJ | 0.00005 UJ |

= - detected, J - estimated, U - not detected, R - rejected.

**Table I-33. Storm/Sanitary Sewers Surface Water Semivolatile Organic Compounds**

| Location | Storm/Sanitary Sewers Water Samples Aggregate | Storm/Sanitary Sewers Water Samples Aggregate | Storm/Sanitary Sewers Water Samples Aggregate |
|---|---|---|---|
| **Station** | **LL4-187** | **LL4-189** | **LL4-189** |
| **Sample ID** | **LL40994** | **LL40998** | **LL41154** |
| **Customer ID** | **LL4sw-187-0994-SW** | **LL4sw-189-0998-SW** | **LL4sw-189-1154-SW** |
| **Date** | **08/14/2001** | **08/13/2001** | **08/13/2001** |
| **Filtered** | **Total** | **Total** | **Total** |
| **Field Type** | **Grab** | **Grab** | **Field Duplicate** |
| **Analyte (mg/L)** | | | |
| 1,2,4-Trichlorobenzene | 0.01 U | 0.01 U | 0.01 U |
| 1,2-Dichlorobenzene | 0.01 U | 0.01 U | 0.01 U |
| 1,3-Dichlorobenzene | 0.01 U | 0.01 U | 0.01 U |
| 1,4-Dichlorobenzene | 0.01 U | 0.01 U | 0.01 U |
| 2,4,5-Trichlorophenol | 0.01 U | 0.01 U | 0.01 U |
| 2,4,6-Trichlorophenol | 0.01 U | 0.01 U | 0.01 U |
| 2,4-Dichlorophenol | 0.01 U | 0.01 U | 0.01 U |
| 2,4-Dimethylphenol | 0.01 U | 0.01 U | 0.01 U |
| 2,4-Dinitrophenol | 0.025 U | 0.025 U | 0.025 U |
| 2,4-Dinitrotoluene | 0.01 U | 0.01 U | 0.01 U |
| 2,6-Dinitrotoluene | 0.01 U | 0.01 U | 0.01 U |
| 2-Chloronaphthalene | 0.01 U | 0.01 U | 0.01 U |
| 2-Chlorophenol | 0.01 U | 0.01 U | 0.01 U |
| 2-Methyl-4,6-dinitrophenol | 0.025 U | 0.025 U | 0.025 U |
| 2-Methylnaphthalene | 0.01 U | 0.01 U | 0.01 U |
| 2-Methylphenol | 0.01 U | 0.01 U | 0.01 U |
| 2-Nitrobenzenamine | 0.025 U | 0.025 U | 0.025 U |
| 2-Nitrophenol | 0.01 U | 0.01 U | 0.01 U |
| 3,3'-Dichlorobenzidine | 0.025 U | 0.025 U | 0.025 U |
| 3-Nitrobenzenamine | 0.025 U | 0.025 U | 0.025 U |
| 4-Bromophenyl phenyl ether | 0.01 U | 0.01 U | 0.01 U |
| 4-Chloro-3-methylphenol | 0.01 U | 0.01 U | 0.01 U |
| 4-Chlorobenzenamine | 0.01 U | 0.01 U | 0.01 U |
| 4-Chlorophenyl phenyl ether | 0.01 U | 0.01 U | 0.01 U |
| 4-Methylphenol | 0.01 U | 0.01 U | 0.01 U |
| 4-Nitrobenzenamine | 0.025 U | 0.025 U | 0.025 U |
| 4-Nitrophenol | 0.025 U | 0.025 U | 0.025 U |
| Acenaphthene | 0.01 U | 0.01 U | 0.01 U |
| Acenaphthylene | 0.01 U | 0.01 U | 0.01 U |
| Anthracene | 0.01 U | 0.01 U | 0.01 U |
| Benz(a)anthracene | 0.01 U | 0.01 U | 0.01 U |
| Benzenemethanol | 0.01 U | 0.01 U | 0.01 U |
| Benzo(a)pyrene | 0.01 U | 0.01 U | 0.01 U |
| Benzo(b)fluoranthene | 0.01 U | 0.01 U | 0.01 U |
| Benzo(ghi)perylene | 0.01 U | 0.01 U | 0.01 U |
| Benzo(k)fluoranthene | 0.01 U | 0.01 U | 0.01 U |
| Benzoic acid | 0.035 U | 0.035 U | 0.035 U |
| Bis(2-chloroethoxy)methane | 0.01 U | 0.01 U | 0.01 U |

**Table I-33. Storm/Sanitary Sewers Surface Water Semivolatile Organic Compounds (continued)**

| Location | Storm/Sanitary Sewers Water Samples Aggregate | Storm/Sanitary Sewers Water Samples Aggregate | Storm/Sanitary Sewers Water Samples Aggregate |
|---|---|---|---|
| **Station** | **LL4-187** | **LL4-189** | **LL4-189** |
| **Sample ID** | **LL40994** | **LL40998** | **LL41154** |
| **Customer ID** | **LL4sw-187-0994-SW** | **LL4sw-189-0998-SW** | **LL4sw-189-1154-SW** |
| **Date** | **08/14/2001** | **08/13/2001** | **08/13/2001** |
| **Filtered** | **Total** | **Total** | **Total** |
| **Field Type** | **Grab** | **Grab** | **Field Duplicate** |
| **Analyte (mg/L)** | | | |
| Bis(2-chloroethyl) ether | 0.01 U | 0.01 U | 0.01 U |
| Bis(2-chloroisopropyl) ether | 0.01 U | 0.01 U | 0.01 U |
| Bis(2-ethylhexyl)phthalate | 0.01 U | 0.01 U | 0.01 U |
| Butyl benzyl phthalate | 0.01 U | 0.01 U | 0.01 U |
| Carbazole | 0.01 U | 0.01 U | 0.01 U |
| Chrysene | 0.01 U | 0.01 U | 0.01 U |
| Di-n-butyl phthalate | 0.01 U | 0.01 U | 0.01 U |
| Di-n-octylphthalate | 0.01 U | 0.01 U | 0.01 U |
| Dibenz(a,h)anthracene | 0.01 U | 0.01 U | 0.01 U |
| Dibenzofuran | 0.01 U | 0.01 U | 0.01 U |
| Diethyl phthalate | 0.01 U | 0.01 U | 0.01 U |
| Dimethyl phthalate | 0.01 U | 0.01 R | 0.01 R |
| Fluoranthene | 0.01 U | 0.01 U | 0.01 U |
| Fluorene | 0.01 U | 0.01 U | 0.01 U |
| Hexachlorobenzene | 0.01 U | 0.01 U | 0.01 U |
| Hexachlorobutadiene | 0.01 U | 0.01 U | 0.01 U |
| Hexachlorocyclopentadiene | 0.01 U | 0.01 R | 0.01 R |
| Hexachloroethane | 0.01 U | 0.01 U | 0.01 U |
| Indeno(1,2,3-cd)pyrene | 0.01 U | 0.01 U | 0.01 U |
| Isophorone | 0.01 U | 0.01 U | 0.01 U |
| N-Nitroso-di-n-propylamine | 0.01 U | 0.01 U | 0.01 U |
| N-Nitrosodiphenylamine | 0.01 U | 0.01 U | 0.01 U |
| Naphthalene | 0.01 U | 0.01 U | 0.01 U |
| Nitrobenzene | 0.01 U | 0.01 U | 0.01 U |
| Pentachlorophenol | 0.01 U | 0.01 U | 0.01 U |
| Phenanthrene | 0.01 U | 0.01 U | 0.01 U |
| Phenol | 0.01 U | 0.01 U | 0.01 U |
| Pyrene | 0.01 U | 0.01 U | 0.01 U |

= - detected, J - estimated, U - not detected, R - rejected.

**Table I-34. Storm/Sanitary Sewers Surface Water Volatile Organic Compounds**

| Location | Storm/Sanitary Sewers Water Samples Aggregate | Storm/Sanitary Sewers Water Samples Aggregate | Storm/Sanitary Sewers Water Samples Aggregate |
|---|---|---|---|
| **Station** | **LL4-187** | **LL4-189** | **LL4-189** |
| **Sample ID** | **LL40994** | **LL40998** | **LL41154** |
| **Customer ID** | **LL4sw-187-0994-SW** | **LL4sw-189-0998-SW** | **LL4sw-189-1154-SW** |
| **Date** | **08/14/2001** | **08/13/2001** | **08/13/2001** |
| **Filtered** | **Total** | **Total** | **Total** |
| **Field Type** | **Grab** | **Grab** | **Field Duplicate** |
| **Analyte (mg/L)** | | | |
| 1,1,1-Trichloroethane | 0.001 U | 0.001 U | 0.001 U |
| 1,1,2,2-Tetrachloroethane | 0.001 UJ | 0.001 UJ | 0.001 UJ |
| 1,1,2-Trichloroethane | 0.001 U | 0.001 U | 0.001 U |
| 1,1-Dichloroethane | 0.001 U | 0.001 U | 0.001 U |
| 1,1-Dichloroethene | 0.001 U | 0.001 U | 0.001 U |
| 1,2-Dibromoethane | 0.001 U | 0.001 U | 0.001 U |
| 1,2-Dichloroethane | 0.001 U | 0.001 U | 0.001 U |
| 1,2-Dichloroethene | 0.001 U | 0.001 U | 0.001 U |
| 1,2-Dichloropropane | 0.001 U | 0.001 U | 0.001 U |
| 2-Butanone | 0.01 U | 0.01 U | 0.01 U |
| 2-Hexanone | 0.01 U | 0.01 U | 0.01 U |
| 4-Methyl-2-pentanone | 0.01 U | 0.01 U | 0.01 U |
| Acetone | 0.0009 J | 0.0011 J | 0.0011 J |
| Benzene | 0.001 U | 0.001 U | 0.001 U |
| Bromochloromethane | 0.001 U | 0.001 U | 0.001 U |
| Bromodichloromethane | 0.001 U | 0.001 U | 0.001 U |
| Bromoform | 0.001 U | 0.001 U | 0.001 U |
| Bromomethane | 0.001 U | 0.001 U | 0.001 U |
| Carbon disulfide | 0.001 U | 0.001 U | 0.001 U |
| Carbon tetrachloride | 0.001 U | 0.001 U | 0.001 U |
| Chlorobenzene | 0.001 U | 0.001 U | 0.001 U |
| Chloroethane | 0.001 U | 0.001 U | 0.001 U |
| Chloroform | 0.001 U | 0.001 U | 0.001 U |
| Chloromethane | 0.001 U | 0.001 U | 0.001 U |
| Dibromochloromethane | 0.001 U | 0.001 U | 0.001 U |
| Dimethylbenzene | 0.001 U | 0.001 U | 0.001 U |
| Ethylbenzene | 0.001 U | 0.001 U | 0.001 U |
| Methylene chloride | 0.001 U | 0.001 U | 0.001 U |
| Styrene | 0.001 U | 0.001 U | 0.001 U |
| Tetrachloroethene | 0.001 U | 0.001 U | 0.001 U |
| Toluene | 0.001 U | 0.001 U | 0.001 U |
| Trichloroethene | 0.001 U | 0.001 U | 0.001 U |
| Vinyl chloride | 0.001 U | 0.001 U | 0.001 U |
| cis-1,3-Dichloropropene | 0.001 U | 0.001 U | 0.001 U |
| trans-1,3-Dichloropropene | 0.001 U | 0.001 U | 0.001 U |

= - detected, J - estimated, U - not detected, R - rejected.

**Table I-35. Buildings and Structures Solids Inorganics**

| Location | Soil Beneath Building Floor Slabs Aggregate | Floorsweep Samples Aggregate | Soil Beneath Building Floor Slabs Aggregate | Soil Beneath Building Floor Slabs Aggregate | Soil Beneath Building Floor Slabs Aggregate |
|---|---|---|---|---|---|
| **Station** | **LL4-079** | **LL4-099** | **LL4-108** | **LL4-109** | **LL4-119** |
| **Sample ID** | **LL40713** | **LL40771** | **LL40796** | **LL40797** | **LL40825** |
| **Customer ID** | **LL4ss-079-0713-SO** | **LL4fs-099d-0771-FS** | **LL4ss-108-0796-SO** | **LL4ss-109-0797-SO** | **LL4ss-119-0825-SO** |
| **Date** | **08/22/2001** | **08/20/2001** | **08/13/2001** | **08/13/2001** | **08/21/2001** |
| **Depth (ft)** | **0.0 - 1.0** | **0.0 - 1.0** | **0.0 - 1.0** | **0.0 - 1.0** | **0.0 - 1.0** |
| **Field Type** | **Grab** | **Grab** | **Grab** | **Grab** | **Grab** |
| Analyte (mg/kg) | | | | | |
| Aluminum | 5660 = | 3370 = | 8350 = | 8570 = | 8410 = |
| Antimony | 1.1 UJ | 41.9 = | 1.2 UJ | 1.2 UJ | 1.1 UJ |
| Arsenic | 9.5 = | 29.8 J | 11.1 = | 9.5 = | 13.6 = |
| Arsenic +3 | | 0.000094 = | | | |
| Barium | 23.6 J | 505 J | 56.1 = | 40.7 = | 43 = |
| Beryllium | 0.31 U | 0.19 U | 0.52 J | 0.36 U | 0.4 U |
| Cadmium | 0.53 U | 8.8 = | 0.16 J | 0.15 J | 0.55 U |
| Calcium | 1650 = | 6120 = | 1430 = | 3670 = | 1360 = |
| Chromium | 6.2 J | 463 J | 11.7 J | 10.2 J | 11 = |
| Chromium, hexavalent | | 23 J | | | |
| Cobalt | 5.9 J | 27.9 J | 8.6 = | 6.9 = | 8.7 = |
| Copper | 16.6 = | 1740 = | 23.3 = | 18 = | 24.2 = |
| Cyanide | 0.53 U | 0.51 U | | | |
| Iron | 14400 J | 258000 J | 23400 = | 18500 = | 19000 = |
| Lead | 10.9 = | 1210 = | 13.3 = | 12.4 = | 17.9 J |
| Magnesium | 1720 = | 1110 = | 2600 = | 2610 = | 2090 = |
| Manganese | 350 J | 1620 J | 348 = | 294 = | 562 = |
| Mercury | 0.022 J | 0.022 J | 0.12 U | 0.022 J | 0.02 J |
| Nickel | 12.4 J | 130 J | 21.2 = | 16.2 = | 18.1 J |
| Potassium | 747 J | 2880 J | 866 = | 772 = | 765 J |
| Selenium | 2.1 U | 7.4 J | 2.3 U | 2.4 U | 2.2 U |
| Silver | 0.53 U | 0.25 J | 0.58 U | 0.6 U | 0.55 U |
| Sodium | 534 U | 232 J | 580 U | 596 U | 552 U |
| Thallium | 0.42 UJ | 0.32 J | 0.26 J | 0.25 J | 0.73 = |
| Vanadium | 8.3 = | 11.5 = | 12.7 = | 12.8 = | 13.4 = |
| Zinc | 59.4 = | 648 = | 69.7 = | 56.7 = | 81.7 = |

**Table I-35. Buildings and Structures Solids Inorganics (continued)**

| Location | Soil Beneath Building Floor Slabs Aggregate | Soil Beneath Building Floor Slabs Aggregate | Soil Beneath Building Floor Slabs Aggregate | Floorsweep Samples Aggregate | Floorsweep Samples Aggregate |
|---|---|---|---|---|---|
| **Station** | **LL4-120** | **LL4-123** | **LL4-124** | **LL4-125** | **LL4-129** |
| **Sample ID** | **LL40826** | **LL40833** | **LL40834** | **LL40835** | **LL40845** |
| **Customer ID** | **LL4ss-120-0826-SO** | **LL4ss-123-0833-SO** | **LL4ss-124-0834-SO** | **LL4fs-125d-0835-FS** | **LL4fs-129d-0845-FS** |
| **Date** | **08/21/2001** | **08/14/2001** | **08/14/2001** | **08/20/2001** | **08/20/2001** |
| **Depth (ft)** | **0.0 - 1.0** | **0.0 - 1.0** | **0.0 - 1.0** | **0.0 - 1.0** | **0.0 - 1.0** |
| **Field Type** | **Grab** | **Grab** | **Grab** | **Grab** | **Grab** |
| Analyte (mg/kg) | | | | | |
| Aluminum | 9070 = | 2990 = | 2730 = | 3370 = | 2070 = |
| Antimony | 1.1 UJ | 1.1 UJ | 1.1 UJ | 8.6 J | 20 J |
| Arsenic | 13.5 = | 7.4 J | 19 J | 37 = | 31.8 J |
| Arsenic +3 | | | | 0.000087 = | 0.000061 = |
| Barium | 41.9 = | 16.5 J | 13.1 J | 1560 J | 401 J |
| Beryllium | 0.4 U | 0.23 U | 0.17 U | 0.25 U | 2 J |
| Cadmium | 0.56 U | 0.29 J | 0.26 J | 47.9 = | 44.1 = |
| Calcium | 833 = | 84000 J | 27900 J | 15200 = | 10300 = |
| Chromium | 10.1 = | 4.9 J | 4.6 J | 249 J | 279 J |
| Chromium, hexavalent | | | | 1.1 UJ | 1.1 UJ |
| Cobalt | 7.7 = | 8.4 = | 6.1 = | 43.9 J | 35.1 J |
| Copper | 24.5 = | 15.2 = | 15.7 = | 540 = | 485 = |
| Cyanide | | | 0.53 U | 1.4 = | 0.55 U |
| Iron | 20800 = | 13800 J | 13400 J | 278000 J | 401000 J |
| Lead | 18.1 J | 7.6 J | 10.5 J | 2610 = | 903 = |
| Magnesium | 2260 = | 7780 J | 3870 J | 1740 = | 962 J |
| Manganese | 492 = | 413 J | 433 J | 1570 J | 3320 J |
| Mercury | 0.021 J | 0.011 J | 0.017 J | 0.16 = | 0.022 J |
| Nickel | 19 J | 9.2 J | 9.7 J | 176 J | 165 J |
| Potassium | 718 J | 564 = | 564 = | 8200 J | 14300 J |
| Selenium | 2.2 U | 2.1 U | 2.1 U | 8.8 J | 43.9 U |
| Silver | 0.56 U | 0.53 U | 0.53 U | 0.21 J | 0.55 J |
| Sodium | 555 U | 55.3 J | 531 U | 1340 = | 1410 = |
| Thallium | 0.71 = | 0.46 = | 0.46 = | 0.42 J | 0.36 J |
| Vanadium | 13.9 = | 6.8 J | 6.1 J | 14.7 = | 19.8 = |
| Zinc | 82.8 = | 51.5 = | 43.8 = | 2850 = | 758 = |

**Table I-35. Buildings and Structures Solids Inorganics (continued)**

| Location | Soil Beneath Building Floor Slabs Aggregate | Soil Beneath Building Floor Slabs Aggregate | Pink Water and Washdown Sedimentation Sumps Aggregate | Pink Water and Washdown Sedimentation Sumps Aggregate | Pink Water and Washdown Sedimentation Sumps Aggregate |
|---|---|---|---|---|---|
| **Station** | **LL4-134** | **LL4-135** | **LL4-144** | **LL4-175** | **LL4-175** |
| **Sample ID** | **LL40858** | **LL40859** | **LL40884** | **LL40951** | **LL41145** |
| **Customer ID** | **LL4ss-134-0858-SO** | **LL4ss-135-0859-SO** | **LL4sd-144-0884-SD** | **LL4sd-175-0951-SD** | **LL4sd-175-1145-SD** |
| **Date** | **08/14/2001** | **08/14/2001** | **08/24/2001** | **08/14/2001** | **08/14/2001** |
| **Depth (ft)** | **0.0 - 1.0** | **0.0 - 1.0** | **0.0 - 0.5** | **0.0 - 0.5** | **0.0 - 0.5** |
| **Field Type** | **Grab** | **Grab** | **Grab** | **Grab** | **Field Duplicate** |
| Analyte (mg/kg) | | | | | |
| Aluminum | 3490 = | 4880 = | 6720 = | 5870 = | 5170 = |
| Antimony | 1.1 UJ | 1.1 UJ | 8.1 R | 21.2 J | 8.1 J |
| Arsenic | 8 J | 7.7 = | 12.1 U | 40 J | 36.7 J |
| Arsenic +3 | | | | | |
| Barium | 19.5 J | 20.6 = | 80.6 = | 1180 J | 991 J |
| Beryllium | 0.25 U | 0.3 U | 0.83 U | 0.37 J | 0.37 U |
| Cadmium | 0.27 J | 0.18 J | 2.6 J | 67.9 J | 63 J |
| Calcium | 30500 J | 11700 J | 17100 = | 53600 J | 31000 J |
| Chromium | 7.5 J | 7.2 = | 29.5 = | 1430 J | 1540 J |
| Chromium, hexavalent | | | | | |
| Cobalt | 5.5 = | 6.5 = | 5.6 = | 39.8 = | 39.3 = |
| Copper | 17.1 = | 18.5 = | 274 = | 488 = | 468 = |
| Cyanide | | | | | |
| Iron | 19100 J | 14600 = | 26000 = | 331000 J | 325000 J |
| Lead | 8.9 J | 10.9 = | 174 = | 5020 J | 3040 J |
| Magnesium | 6440 J | 3310 = | 3400 J | 8620 J | 7950 J |
| Manganese | 450 J | 537 = | 510 = | 2480 J | 2490 J |
| Mercury | 0.11 U | 0.045 J | 0.29 U | 0.32 = | 0.44 = |
| Nickel | 11.2 J | 14.8 = | 39.1 = | 305 J | 249 J |
| Potassium | 555 = | 531 J | 1520 J | 11100 = | 12100 = |
| Selenium | 2.1 U | 2.2 U | 3.3 J | 28.7 U | 13.1 U |
| Silver | 0.53 U | 0.54 U | 4 U | 0.87 J | 1.1 J |
| Sodium | 534 U | 91.4 J | 4040 U | 2920 = | 2900 = |
| Thallium | 0.39 = | 0.43 = | 1.1 U | 1.5 = | 1.6 = |
| Vanadium | 9 J | 8.6 = | 12.3 = | 20.3 J | 20.6 J |
| Zinc | 61.5 = | 93.2 = | 719 = | 2670 = | 2280 = |

= - detected, J - estimated, U - not detected, R - rejected.

**Table I-36. Buildings and Structures Solids Explosives and Propellants**

| Location | Floorsweep Samples Aggregate | Floorsweep Samples Aggregate | Floorsweep Samples Aggregate | Pink Water and Washdown Sedimentation Sumps Aggregate | Pink Water and Washdown Sedimentation Sumps Aggregate |
|---|---|---|---|---|---|
| **Station** | **LL4-099** | **LL4-125** | **LL4-129** | **LL4-144** | **LL4-175** |
| **Sample ID** | **LL40771** | **LL40835** | **LL40845** | **LL40884** | **LL40951** |
| **Customer ID** | **LL4fs-099d-0771-FS** | **LL4fs-125d-0835-FS** | **LL4fs-129d-0845-FS** | **LL4sd-144-0884-SD** | **LL4sd-175-0951-SD** |
| **Date** | **08/20/2001** | **08/20/2001** | **08/20/2001** | **08/24/2001** | **08/14/2001** |
| **Depth (ft)** | **0.0 - 1.0** | **0.0 - 1.0** | **0.0 - 1.0** | **0.0 - 0.5** | **0.0 - 0.5** |
| **Field Type** | **Grab** | **Grab** | **Grab** | **Grab** | **Grab** |
| **Analyte (mg/kg)** | | | | | |
| 1,3,5-Trinitrobenzene | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 7.5 U |
| 1,3-Dinitrobenzene | 0.43 U | 0.25 U | 0.25 U | 0.25 U | 7.5 U |
| 2,4,6-Trinitrotoluene | 0.072 J | 1.5 = | 0.25 U | 0.25 U | 310 = |
| 2,4-Dinitrotoluene | 0.4 U | 0.25 U | 0.25 U | 0.25 U | 7.5 U |
| 2,6-Dinitrotoluene | 0.25 U | 0.28 U | 0.25 U | 0.25 U | 7.5 U |
| 2-Amino-4,6-dinitrotoluene | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 23 = |
| 2-Nitrotoluene | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 7.5 U |
| 3-Nitrotoluene | 0.61 U | 0.25 U | 0.25 U | 0.25 U | 7.5 U |
| 4-Amino-2,6-dinitrotoluene | 0.25 U | 0.62 U | 0.25 U | 0.25 U | 96 U |
| 4-Nitrotoluene | 3.2 U | 0.25 U | 0.25 U | 0.25 U | 7.5 U |
| HMX | 0.5 U | 3.6 = | 0.5 U | 0.5 U | 600 = |
| Nitrobenzene | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 7.5 U |
| Nitrocellulose | | | | | 700 = |
| Nitroglycerin | 2.5 U | 2.5 U | 2.5 U | 7.3 U | 75 U |
| Nitroguanidine | | | | | 0.25 U |
| RDX | 1.1 = | 18 = | 0.5 U | 0.5 U | 2100 = |
| Tetryl | 0.65 U | 0.65 U | 0.65 U | 0.65 U | 20 U |

= - detected, J - estimated, U - not detected, R - rejected.

**Table I-37. Buildings and Structures Solids Pesticides and PCBs**

| Location | Soil Beneath Building Floor Slabs Aggregate | Floorsweep Samples Aggregate | Soil Beneath Building Floor Slabs Aggregate |
|---|---|---|---|
| **Station** | **LL4-079** | **LL4-099** | **LL4-108** |
| **Sample ID** | **LL40713** | **LL40771** | **LL40796** |
| **Customer ID** | **LL4ss-079-0713-SO** | **LL4fs-099d-0771-FS** | **LL4ss-108-0796-SO** |
| **Date** | **08/22/2001** | **08/20/2001** | **08/13/2001** |
| **Depth (ft)** | **0.0 - 1.0** | **0.0 - 1.0** | **0.0 - 1.0** |
| **Field Type** | **Grab** | **Grab** | **Grab** |
| **Analyte (mg/kg)** | | | |
| 4,4'-DDD | | 0.034 J | |
| 4,4'-DDE | | 0.13 J | |
| 4,4'-DDT | | 0.034 U | |
| Aldrin | | 0.034 U | |
| Dieldrin | | 0.034 U | |
| Endosulfan I | | 0.034 U | |
| Endosulfan II | | 0.034 U | |
| Endosulfan sulfate | | 0.034 U | |
| Endrin | | 0.034 U | |
| Endrin aldehyde | | 0.15 J | |
| Endrin ketone | | 0.034 U | |
| Heptachlor | | 0.034 U | |
| Heptachlor epoxide | | 0.034 U | |
| Lindane | | 0.034 U | |
| Methoxychlor | | 0.067 U | |
| PCB-1016 | 0.035 UJ | 1.7 U | 0.038 U |
| PCB-1221 | 0.035 U | 1.7 U | 0.038 U |
| PCB-1232 | 0.035 U | 1.7 U | 0.038 U |
| PCB-1242 | 0.035 U | 1.7 U | 0.038 U |
| PCB-1248 | 0.035 U | 1.7 U | 0.038 U |
| PCB-1254 | 0.035 U | 16 = | 0.038 U |
| PCB-1260 | 0.035 UJ | 1.7 U | 0.038 U |
| Toxaphene | | 1.4 U | |
| alpha-BHC | | 0.034 U | |
| alpha-Chlordane | | 0.39 = | |
| beta-BHC | | 0.037 J | |
| delta-BHC | | 0.034 R | |
| gamma-Chlordane | | 0.34 J | |

**Table I-37. Buildings and Structures Solids Pesticides and PCBs (continued)**

| Location | Soil Beneath Building Floor Slabs Aggregate | Soil Beneath Building Floor Slabs Aggregate | Soil Beneath Building Floor Slabs Aggregate |
|---|---|---|---|
| **Station** | **LL4-109** | **LL4-119** | **LL4-120** |
| **Sample ID** | **LL40797** | **LL40825** | **LL40826** |
| **Customer ID** | **LL4ss-109-0797-SO** | **LL4ss-119-0825-SO** | **LL4ss-120-0826-SO** |
| **Date** | **08/13/2001** | **08/21/2001** | **08/21/2001** |
| **Depth (ft)** | **0.0 - 1.0** | **0.0 - 1.0** | **0.0 - 1.0** |
| **Field Type** | **Grab** | **Grab** | **Grab** |
| **Analyte (mg/kg)** | | | |
| 4,4'-DDD | | | |
| 4,4'-DDE | | | |
| 4,4'-DDT | | | |
| Aldrin | | | |
| Dieldrin | | | |
| Endosulfan I | | | |
| Endosulfan II | | | |
| Endosulfan sulfate | | | |
| Endrin | | | |
| Endrin aldehyde | | | |
| Endrin ketone | | | |
| Heptachlor | | | |
| Heptachlor epoxide | | | |
| Lindane | | | |
| Methoxychlor | | | |
| PCB-1016 | 0.039 U | 0.036 U | 0.037 U |
| PCB-1221 | 0.039 U | 0.036 U | 0.037 U |
| PCB-1232 | 0.039 U | 0.036 U | 0.037 U |
| PCB-1242 | 0.039 U | 0.036 U | 0.037 U |
| PCB-1248 | 0.039 U | 0.036 U | 0.037 U |
| PCB-1254 | 0.039 U | 0.036 U | 0.037 U |
| PCB-1260 | 0.039 U | 0.036 R | 0.037 R |
| Toxaphene | | | |
| alpha-BHC | | | |
| alpha-Chlordane | | | |
| beta-BHC | | | |
| delta-BHC | | | |
| gamma-Chlordane | | | |

**Table I-37. Buildings and Structures Solids Pesticides and PCBs (continued)**

| Location | Soil Beneath Building Floor Slabs Aggregate | Soil Beneath Building Floor Slabs Aggregate | Floorsweep Samples Aggregate |
|---|---|---|---|
| **Station** | **LL4-123** | **LL4-124** | **LL4-125** |
| **Sample ID** | **LL40833** | **LL40834** | **LL40835** |
| **Customer ID** | **LL4ss-123-0833-SO** | **LL4ss-124-0834-SO** | **LL4fs-125d-0835-FS** |
| **Date** | **08/14/2001** | **08/14/2001** | **08/20/2001** |
| **Depth (ft)** | **0.0 - 1.0** | **0.0 - 1.0** | **0.0 - 1.0** |
| **Field Type** | **Grab** | **Grab** | **Grab** |
| **Analyte (mg/kg)** | | | |
| 4,4'-DDD | | | 0.089 U |
| 4,4'-DDE | | | 0.92 = |
| 4,4'-DDT | | | 0.089 U |
| Aldrin | | | 0.089 U |
| Dieldrin | | | 0.089 U |
| Endosulfan I | | | 0.089 U |
| Endosulfan II | | | 0.089 U |
| Endosulfan sulfate | | | 0.089 U |
| Endrin | | | 0.089 U |
| Endrin aldehyde | | | 1 = |
| Endrin ketone | | | 0.089 U |
| Heptachlor | | | 0.089 U |
| Heptachlor epoxide | | | 0.089 U |
| Lindane | | | 0.089 U |
| Methoxychlor | | | 0.17 U |
| PCB-1016 | 0.035 U | 0.035 U | 3.5 U |
| PCB-1221 | 0.035 U | 0.035 U | 3.5 U |
| PCB-1232 | 0.035 U | 0.035 U | 3.5 U |
| PCB-1242 | 0.035 U | 0.035 U | 3.5 U |
| PCB-1248 | 0.035 U | 0.035 U | 3.5 U |
| PCB-1254 | 0.035 U | 0.035 U | 3.5 U |
| PCB-1260 | 0.035 U | 0.035 U | 29 = |
| Toxaphene | | | 3.5 U |
| alpha-BHC | | | 0.089 U |
| alpha-Chlordane | | | 0.089 U |
| beta-BHC | | | 0.089 U |
| delta-BHC | | | 0.089 R |
| gamma-Chlordane | | | 0.12 J |

**Table I-37. Buildings and Structures Solids Pesticides and PCBs (continued)**

| Location | Floorsweep Samples Aggregate | Soil Beneath Building Floor Slabs Aggregate | Soil Beneath Building Floor Slabs Aggregate |
|---|---|---|---|
| **Station** | **LL4-129** | **LL4-134** | **LL4-135** |
| **Sample ID** | **LL40845** | **LL40858** | **LL40859** |
| **Customer ID** | **LL4fs-129d-0845-FS** | **LL4ss-134-0858-SO** | **LL4ss-135-0859-SO** |
| **Date** | **08/20/2001** | **08/14/2001** | **08/14/2001** |
| **Depth (ft)** | **0.0 - 1.0** | **0.0 - 1.0** | **0.0 - 1.0** |
| **Field Type** | **Grab** | **Grab** | **Grab** |
| **Analyte (mg/kg)** | | | |
| 4,4'-DDD | 0.037 U | | |
| 4,4'-DDE | 0.14 J | | |
| 4,4'-DDT | 0.037 U | | |
| Aldrin | 0.037 U | | |
| Dieldrin | 0.15 J | | |
| Endosulfan I | 0.037 U | | |
| Endosulfan II | 0.037 U | | |
| Endosulfan sulfate | 0.037 U | | |
| Endrin | 0.037 U | | |
| Endrin aldehyde | 0.26 J | | |
| Endrin ketone | 0.037 U | | |
| Heptachlor | 0.037 U | | |
| Heptachlor epoxide | 0.037 U | | |
| Lindane | 0.037 U | | |
| Methoxychlor | 0.11 J | | |
| PCB-1016 | 1.8 U | 0.035 U | 0.036 U |
| PCB-1221 | 1.8 U | 0.035 U | 0.036 U |
| PCB-1232 | 1.8 U | 0.035 U | 0.036 U |
| PCB-1242 | 1.8 U | 0.035 U | 0.036 U |
| PCB-1248 | 1.8 U | 0.035 U | 0.036 U |
| PCB-1254 | 24 = | 0.035 U | 0.036 U |
| PCB-1260 | 1.8 U | 0.035 U | 0.036 U |
| Toxaphene | 1.5 U | | |
| alpha-BHC | 0.037 U | | |
| alpha-Chlordane | 0.037 U | | |
| beta-BHC | 0.037 U | | |
| delta-BHC | 0.037 R | | |
| gamma-Chlordane | 0.094 J | | |

**Table I-37. Buildings and Structures Solids Pesticides and PCBs (continued)**

| Location | Pink Water and Washdown Sedimentation Sumps Aggregate | Pink Water and Washdown Sedimentation Sumps Aggregate | Pink Water and Washdown Sedimentation Sumps Aggregate |
|---|---|---|---|
| **Station** | **LL4-144** | **LL4-175** | **LL4-175** |
| **Sample ID** | **LL40884** | **LL40951** | **LL41145** |
| **Customer ID** | **LL4sd-144-0884-SD** | **LL4sd-175-0951-SD** | **LL4sd-175-1145-SD** |
| **Date** | **08/24/2001** | **08/14/2001** | **08/14/2001** |
| **Depth (ft)** | **0.0 - 0.5** | **0.0 - 0.5** | **0.0 - 0.5** |
| **Field Type** | **Grab** | **Grab** | **Field Duplicate** |
| **Analyte (mg/kg)** | | | |
| 4,4'-DDD | | 4.9 U | |
| 4,4'-DDE | | 4.9 U | |
| 4,4'-DDT | | 4.9 U | |
| Aldrin | | 4.9 U | |
| Dieldrin | | 4.9 U | |
| Endosulfan I | | 4.9 U | |
| Endosulfan II | | 4.9 U | |
| Endosulfan sulfate | | 4.9 U | |
| Endrin | | 4.9 UJ | |
| Endrin aldehyde | | 4.9 U | |
| Endrin ketone | | 4.9 U | |
| Heptachlor | | 4.9 U | |
| Heptachlor epoxide | | 4.9 U | |
| Lindane | | 4.9 U | |
| Methoxychlor | | 9.5 U | |
| PCB-1016 | 0.27 U | 9.5 U | 22 U |
| PCB-1221 | 0.27 U | 9.5 U | 22 U |
| PCB-1232 | 0.27 U | 9.5 U | 22 U |
| PCB-1242 | 0.27 U | 9.5 U | 22 U |
| PCB-1248 | 0.27 U | 9.5 U | 22 U |
| PCB-1254 | 0.27 U | 150 = | 260 = |
| PCB-1260 | 0.27 U | 9.5 U | 22 U |
| Toxaphene | | 190 U | |
| alpha-BHC | | 4.9 U | |
| alpha-Chlordane | | 11 = | |
| beta-BHC | | 4.9 U | |
| delta-BHC | | 4.9 U | |
| gamma-Chlordane | | 10 J | |

= - detected, J - estimated, U - not detected, R - rejected.

**Table I-38. Buildings and Structures Solids Semivolatile Organic Compounds**

| Location | Floorsweep Samples Aggregate | Floorsweep Samples Aggregate | Floorsweep Samples Aggregate | Pink Water and Washdown Sedimentation Sumps Aggregate |
|---|---|---|---|---|
| **Station** | **LL4-099** | **LL4-125** | **LL4-129** | **LL4-175** |
| **Sample ID** | **LL40771** | **LL40835** | **LL40845** | **LL40951** |
| **Customer ID** | **LL4fs-099d-0771-FS** | **LL4fs-125d-0835-FS** | **LL4fs-129d-0845-FS** | **LL4sd-175-0951-SD** |
| **Date** | **08/20/2001** | **08/20/2001** | **08/20/2001** | **08/14/2001** |
| **Depth (ft)** | **0.0 - 1.0** | **0.0 - 1.0** | **0.0 - 1.0** | **0.0 - 0.5** |
| **Field Type** | **Grab** | **Grab** | **Grab** | **Grab** |
| **Analyte (mg/kg)** | | | | |
| 1,2,4-Trichlorobenzene | 0.67 UJ | 1.7 UJ | 0.36 UJ | 0.95 UJ |
| 1,2-Dichlorobenzene | 0.67 UJ | 1.7 UJ | 0.36 UJ | 0.95 UJ |
| 1,3-Dichlorobenzene | 0.67 UJ | 1.7 UJ | 0.36 UJ | 0.95 UJ |
| 1,4-Dichlorobenzene | 0.67 UJ | 1.7 UJ | 0.36 UJ | 0.95 UJ |
| 2,4,5-Trichlorophenol | 0.67 UJ | 1.7 R | 0.36 R | 0.95 UJ |
| 2,4,6-Trichlorophenol | 0.67 UJ | 1.7 R | 0.36 R | 0.95 UJ |
| 2,4-Dichlorophenol | 0.67 UJ | 1.7 R | 0.36 R | 0.95 UJ |
| 2,4-Dimethylphenol | 0.67 UJ | 1.7 R | 0.36 R | 0.95 UJ |
| 2,4-Dinitrophenol | 1.6 UJ | 4.2 R | 0.88 R | 2.3 UJ |
| 2,4-Dinitrotoluene | 0.67 UJ | 1.7 UJ | 0.36 UJ | 1.6 J |
| 2,6-Dinitrotoluene | 0.67 UJ | 1.7 UJ | 0.36 UJ | 0.95 UJ |
| 2-Chloronaphthalene | 0.67 UJ | 1.7 UJ | 0.36 UJ | 0.95 UJ |
| 2-Chlorophenol | 0.67 UJ | 1.7 R | 0.36 R | 0.95 UJ |
| 2-Methyl-4,6-dinitrophenol | 1.6 UJ | 4.2 R | 0.88 R | 2.3 UJ |
| 2-Methylnaphthalene | 0.67 UJ | 1.7 UJ | 0.36 UJ | 0.95 UJ |
| 2-Methylphenol | 0.67 UJ | 1.7 R | 0.36 R | 0.95 UJ |
| 2-Nitrobenzenamine | 1.6 UJ | 4.2 UJ | 0.88 UJ | 2.3 UJ |
| 2-Nitrophenol | 0.67 UJ | 1.7 R | 0.36 R | 0.95 UJ |
| 3,3'-Dichlorobenzidine | 0.67 UJ | 1.7 UJ | 0.36 UJ | 0.95 UJ |
| 3-Nitrobenzenamine | 1.6 UJ | 4.2 UJ | 0.88 UJ | 2.3 UJ |
| 4-Bromophenyl phenyl ether | 0.67 UJ | 1.7 UJ | 0.36 UJ | 0.95 UJ |
| 4-Chloro-3-methylphenol | 0.67 UJ | 1.7 R | 0.36 R | 0.95 UJ |
| 4-Chlorobenzenamine | 0.67 UJ | 1.7 UJ | 0.36 UJ | 0.95 UJ |
| 4-Chlorophenyl phenyl ether | 0.67 UJ | 1.7 UJ | 0.36 UJ | 0.95 UJ |
| 4-Methylphenol | 0.67 UJ | 1.7 R | 0.36 R | 0.95 UJ |
| 4-Nitrobenzenamine | 1.6 UJ | 4.2 UJ | 0.88 UJ | 2.3 UJ |
| 4-Nitrophenol | 1.6 UJ | 4.2 R | 0.88 R | 2.3 UJ |
| Acenaphthene | 0.67 UJ | 0.41 J | 0.36 UJ | 0.95 UJ |
| Acenaphthylene | 0.67 UJ | 1.7 UJ | 0.36 UJ | 0.95 UJ |
| Anthracene | 0.22 J | 0.68 J | 0.36 UJ | 0.95 UJ |
| Benz(a)anthracene | 0.44 J | 2.1 J | 0.36 UJ | 0.18 J |
| Benzenemethanol | 0.67 UJ | 1.7 R | 0.36 R | 0.95 UJ |
| Benzo(a)pyrene | 0.45 J | 1.9 J | 0.36 UJ | 0.32 J |
| Benzo(b)fluoranthene | 0.98 J | 3.8 J | 0.16 J | 1.8 J |
| Benzo(ghi)perylene | 0.26 J | 0.94 J | 0.36 UJ | 0.37 J |
| Benzo(k)fluoranthene | 0.4 J | 1.4 J | 0.36 UJ | 0.41 J |

**Table I-38. Buildings and Structures Solids Semivolatile Organic Compounds (continued)**

| Location | Floorsweep Samples Aggregate | Floorsweep Samples Aggregate | Floorsweep Samples Aggregate | Pink Water and Washdown Sedimentation Sumps Aggregate |
|---|---|---|---|---|
| **Station** | **LL4-099** | **LL4-125** | **LL4-129** | **LL4-175** |
| **Sample ID** | **LL40771** | **LL40835** | **LL40845** | **LL40951** |
| **Customer ID** | **LL4fs-099d-0771-FS** | **LL4fs-125d-0835-FS** | **LL4fs-129d-0845-FS** | **LL4sd-175-0951-SD** |
| **Date** | **08/20/2001** | **08/20/2001** | **08/20/2001** | **08/14/2001** |
| **Depth (ft)** | **0.0 - 1.0** | **0.0 - 1.0** | **0.0 - 1.0** | **0.0 - 0.5** |
| **Field Type** | **Grab** | **Grab** | **Grab** | **Grab** |
| **Analyte (mg/kg)** | | | | |
| Benzoic acid | 3.2 UJ | 1.8 J | 1.9 J | 4.6 UJ |
| Bis(2-chloroethoxy)methane | 0.67 UJ | 1.7 UJ | 0.36 UJ | 0.95 UJ |
| Bis(2-chloroethyl) ether | 0.67 UJ | 1.7 UJ | 0.36 UJ | 0.95 UJ |
| Bis(2-chloroisopropyl) ether | 0.67 UJ | 1.7 UJ | 0.36 UJ | 0.95 UJ |
| Bis(2-ethylhexyl)phthalate | 2.5 J | 12 J | 4.3 J | 1.9 J |
| Butyl benzyl phthalate | 0.78 J | 1.7 UJ | 0.36 UJ | 0.95 UJ |
| Carbazole | 0.25 J | 0.62 J | 0.36 UJ | 0.95 UJ |
| Chrysene | 0.68 J | 3.8 J | 0.36 UJ | 1.1 J |
| Di-n-butyl phthalate | 0.67 UJ | 1.7 UJ | 0.36 UJ | 0.95 UJ |
| Di-n-octylphthalate | 0.67 UJ | 1.7 UJ | 0.36 UJ | 0.95 UJ |
| Dibenz(a,h)anthracene | 0.67 UJ | 1.7 UJ | 0.36 UJ | 0.95 UJ |
| Dibenzofuran | 0.67 UJ | 1.7 UJ | 0.36 UJ | 0.95 UJ |
| Diethyl phthalate | 0.67 UJ | 1.7 UJ | 0.36 UJ | 0.95 UJ |
| Dimethyl phthalate | 0.67 UJ | 1.7 UJ | 0.36 UJ | 0.95 UJ |
| Fluoranthene | 2.2 J | 5.8 J | 0.11 J | 1.4 J |
| Fluorene | 0.67 UJ | 0.57 J | 0.36 UJ | 0.95 UJ |
| Hexachlorobenzene | 0.67 UJ | 1.7 UJ | 0.36 UJ | 0.95 UJ |
| Hexachlorobutadiene | 0.67 UJ | 1.7 UJ | 0.36 UJ | 0.95 UJ |
| Hexachlorocyclopentadiene | 0.67 UJ | 1.7 UJ | 0.36 UJ | 0.95 UJ |
| Hexachloroethane | 0.67 UJ | 1.7 UJ | 0.36 UJ | 0.95 UJ |
| Indeno(1,2,3-cd)pyrene | 0.24 J | 0.91 J | 0.36 UJ | 0.35 J |
| Isophorone | 0.67 UJ | 1.7 UJ | 0.36 UJ | 0.95 UJ |
| N-Nitroso-di-n-propylamine | 0.67 UJ | 1.7 UJ | 0.36 UJ | 0.95 UJ |
| N-Nitrosodiphenylamine | 0.67 UJ | 1.7 UJ | 0.36 UJ | 0.95 UJ |
| Naphthalene | 0.67 UJ | 1.7 UJ | 0.36 UJ | 0.95 UJ |
| Nitrobenzene | 0.67 UJ | 1.7 UJ | 0.36 UJ | 0.95 UJ |
| Pentachlorophenol | 0.67 UJ | 1.7 R | 0.36 R | 0.95 UJ |
| Phenanthrene | 1.1 J | 4.5 J | 0.36 UJ | 0.41 J |
| Phenol | 0.67 UJ | 1.7 R | 0.36 R | 0.95 UJ |
| Pyrene | 0.74 J | 6 J | 0.059 J | 1 J |

= - detected, J - estimated, U - not detected, R - rejected.

**Table I-39. Buildings and Structures Solids Volatile Organic Compounds**

| Location | Floorsweep Samples Aggregate | Floorsweep Samples Aggregate | Floorsweep Samples Aggregate | Pink Water and Washdown Sedimentation Sumps Aggregate |
|---|---|---|---|---|
| **Station** | **LL4-099** | **LL4-125** | **LL4-129** | **LL4-175** |
| **Sample ID** | **LL40771** | **LL40835** | **LL40845** | **LL40951** |
| **Customer ID** | **LL4fs-099d-0771-FS** | **LL4fs-125d-0835-FS** | **LL4fs-129d-0845-FS** | **LL4sd-175-0951-SD** |
| **Date** | **08/20/2001** | **08/20/2001** | **08/20/2001** | **08/14/2001** |
| **Depth (ft)** | **0.0 - 1.0** | **0.0 - 1.0** | **0.0 - 1.0** | **0.0 - 0.5** |
| **Field Type** | **Grab** | **Grab** | **Grab** | **Grab** |
| **Analyte (mg/kg)** | | | | |
| 1,1,1-Trichloroethane | 0.0051 U | 0.0053 U | 0.0055 U | 0.014 U |
| 1,1,2,2-Tetrachloroethane | 0.0051 U | 0.0053 U | 0.0055 U | 0.014 R |
| 1,1,2-Trichloroethane | 0.0051 U | 0.0053 U | 0.0055 U | 0.014 U |
| 1,1-Dichloroethane | 0.0051 U | 0.0053 U | 0.0055 U | 0.014 U |
| 1,1-Dichloroethene | 0.0051 U | 0.0053 U | 0.0055 U | 0.014 U |
| 1,2-Dibromoethane | 0.0051 U | 0.0053 U | 0.0055 U | 0.014 U |
| 1,2-Dichloroethane | 0.0051 U | 0.0053 U | 0.0055 U | 0.014 U |
| 1,2-Dichloroethene | 0.0051 U | 0.0053 U | 0.0055 U | 0.014 U |
| 1,2-Dichloropropane | 0.0051 U | 0.0053 U | 0.0055 U | 0.014 U |
| 2-Butanone | 0.02 UJ | 0.021 UJ | 0.022 UJ | 0.057 U |
| 2-Hexanone | 0.02 U | 0.021 U | 0.022 U | 0.057 UJ |
| 4-Methyl-2-pentanone | 0.02 U | 0.021 U | 0.022 U | 0.057 U |
| Acetone | 0.0068 J | 0.021 UJ | 0.022 UJ | 0.025 J |
| Benzene | 0.0012 J | 0.0017 J | 0.001 J | 0.014 U |
| Bromochloromethane | 0.0051 U | 0.0053 U | 0.0055 U | 0.014 U |
| Bromodichloromethane | 0.0051 U | 0.0053 U | 0.0055 U | 0.014 U |
| Bromoform | 0.0051 U | 0.0053 U | 0.0055 U | 0.014 UJ |
| Bromomethane | 0.0051 U | 0.0053 U | 0.0055 U | 0.014 U |
| Carbon disulfide | 0.0051 U | 0.0053 U | 0.0055 U | 0.014 U |
| Carbon tetrachloride | 0.0051 U | 0.0053 U | 0.0055 U | 0.014 U |
| Chlorobenzene | 0.0051 U | 0.0053 U | 0.0055 U | 0.014 UJ |
| Chloroethane | 0.0051 U | 0.0053 U | 0.0055 U | 0.014 U |
| Chloroform | 0.0051 U | 0.0053 U | 0.0055 U | 0.014 U |
| Chloromethane | 0.0051 U | 0.0053 U | 0.0055 U | 0.014 U |
| Dibromochloromethane | 0.0051 U | 0.0053 U | 0.0055 U | 0.014 UJ |
| Dimethylbenzene | 0.0051 U | 0.0053 U | 0.0055 U | 0.014 UJ |
| Ethylbenzene | 0.0051 U | 0.0053 U | 0.0055 U | 0.014 UJ |
| Methylene chloride | 0.0051 U | 0.0053 U | 0.0055 U | 0.014 U |
| Styrene | 0.0051 U | 0.0053 U | 0.0055 U | 0.014 UJ |
| Tetrachloroethene | 0.0051 U | 0.0053 U | 0.0055 U | 0.014 UJ |
| Toluene | 0.0033 J | 0.014 = | 0.0017 J | 0.0094 J |
| Trichloroethene | 0.0051 U | 0.0053 U | 0.0055 U | 0.014 U |
| Vinyl chloride | 0.0051 U | 0.0053 U | 0.0055 U | 0.014 U |
| cis-1,3-Dichloropropene | 0.0051 U | 0.0053 U | 0.0055 U | 0.014 U |
| trans-1,3-Dichloropropene | 0.0051 U | 0.0053 U | 0.0055 U | 0.014 U |

= - detected, J - estimated, U - not detected, R - rejected.

**Table I-40. Buildings and Structures Liquids Inorganics**

| Location | Pink Water and Washdown Sedimentation Sumps Aggregate |
|---|---|
| **Station** | **LL4-175** |
| **Sample ID** | **LL40952** |
| **Customer ID** | **LL4sw-175-0952-SW** |
| **Date** | **08/14/2001** |
| **Filtered** | **Total** |
| **Field Type** | **Grab** |
| **Analyte (mg/L)** | |
| Cyanide | 0.033 = |
| Aluminum | 0.23 U |
| Antimony | 0.023 = |
| Arsenic | 0.0068 J |
| Barium | 0.054 = |
| Beryllium | 0.00075 U |
| Cadmium | 0.051 = |
| Calcium | 49.6 = |
| Chromium | 0.079 = |
| Cobalt | 0.031 = |
| Copper | 0.89 = |
| Iron | 3.5 = |
| Lead | 0.2 = |
| Magnesium | 28.1 = |
| Manganese | 0.18 = |
| Mercury | 0.00016 J |
| Nickel | 0.15 = |
| Potassium | 1140 J |
| Selenium | 0.0055 J |
| Silver | 0.005 U |
| Sodium | 426 = |
| Thallium | 0.002 UJ |
| Vanadium | 0.0016 J |
| Zinc | 1 = |

= - detected, J - estimated, U - not detected, R - rejected.

**Table I-41. Buildings and Structures Liquids Explosives and Propellants**

| Location | Pink Water and Washdown Sedimentation Sumps Aggregate |
|---|---|
| **Station** | **LL4-175** |
| **Sample ID** | **LL40952** |
| **Customer ID** | **LL4sw-175-0952-SW** |
| **Date** | **08/14/2001** |
| **Filtered** | **Total** |
| **Field Type** | **Grab** |
| **Analyte (mg/L)** | |
| 1,3,5-Trinitrobenzene | 0.02 U |
| 1,3-Dinitrobenzene | 0.02 U |
| 2,4,6-Trinitrotoluene | 0.66 = |
| 2,4-Dinitrotoluene | 0.013 U |
| 2,6-Dinitrotoluene | 0.013 U |
| 2-Amino-4,6-dinitrotoluene | 0.46 = |
| 2-Nitrotoluene | 0.02 U |
| 3-Nitrotoluene | 0.02 U |
| 4-Amino-2,6-dinitrotoluene | 0.81 = |
| 4-Nitrotoluene | 0.02 U |
| HMX | 0.96 = |
| Nitrobenzene | 0.02 U |
| Nitrocellulose | 0.5 U |
| Nitroglycerin | 0.25 U |
| Nitroguanidine | 0.02 UJ |
| RDX | 4.4 = |
| Tetryl | 0.02 U |

= - detected, J - estimated, U - not detected, R - rejected.

**Table I-42. Buildings and Structures Liquids Pesticides and PCBs**

| Location | Pink Water and Washdown Sedimentation Sumps Aggregate |
|---|---|
| **Station** | **LL4-175** |
| **Sample ID** | **LL40952** |
| **Customer ID** | **LL4sw-175-0952-SW** |
| **Date** | **08/14/2001** |
| **Filtered** | **Total** |
| **Field Type** | **Grab** |
| **Analyte (mg/L)** | |
| 4,4'-DDD | 0.0025 U |
| 4,4'-DDE | 0.0025 U |
| 4,4'-DDT | 0.0025 U |
| Aldrin | 0.0025 U |
| Dieldrin | 0.0025 U |
| Endosulfan I | 0.0025 U |
| Endosulfan II | 0.0025 U |
| Endosulfan sulfate | 0.0025 U |
| Endrin | 0.0025 UJ |
| Endrin aldehyde | 0.0025 U |
| Endrin ketone | 0.0025 U |
| Heptachlor | 0.0025 U |
| Heptachlor epoxide | 0.0025 U |
| Lindane | 0.0025 U |
| Methoxychlor | 0.005 U |
| PCB-1016 | 0.005 U |
| PCB-1221 | 0.005 U |
| PCB-1232 | 0.005 U |
| PCB-1242 | 0.005 U |
| PCB-1248 | 0.005 U |
| PCB-1254 | 0.012 = |
| PCB-1260 | 0.005 U |
| Toxaphene | 0.1 U |
| alpha-BHC | 0.0025 U |
| alpha-Chlordane | 0.0025 U |
| beta-BHC | 0.0025 U |
| delta-BHC | 0.0025 U |
| gamma-Chlordane | 0.0025 U |

= - detected, J - estimated, U - not detected, R - rejected.

**Table I-43. Buildings and Structures Liquids Semivolatile Organic Compounds**

| Location | Pink Water and Washdown Sedimentation Sumps Aggregate |
|---|---|
| **Station** | **LL4-175** |
| **Sample ID** | **LL40952** |
| **Customer ID** | **LL4sw-175-0952-SW** |
| **Date** | **08/14/2001** |
| **Filtered** | **Total** |
| **Field Type** | **Grab** |
| **Analyte (mg/L)** | |
| 1,2,4-Trichlorobenzene | 0.04 U |
| 1,2-Dichlorobenzene | 0.04 U |
| 1,3-Dichlorobenzene | 0.04 U |
| 1,4-Dichlorobenzene | 0.04 U |
| 2,4,5-Trichlorophenol | 0.04 U |
| 2,4,6-Trichlorophenol | 0.04 U |
| 2,4-Dichlorophenol | 0.04 U |
| 2,4-Dimethylphenol | 0.04 U |
| 2,4-Dinitrophenol | 0.1 U |
| 2,4-Dinitrotoluene | 0.011 J |
| 2,6-Dinitrotoluene | 0.013 J |
| 2-Chloronaphthalene | 0.04 U |
| 2-Chlorophenol | 0.04 U |
| 2-Methyl-4,6-dinitrophenol | 0.1 U |
| 2-Methylnaphthalene | 0.04 U |
| 2-Methylphenol | 0.04 U |
| 2-Nitrobenzenamine | 0.1 U |
| 2-Nitrophenol | 0.04 U |
| 3,3'-Dichlorobenzidine | 0.1 U |
| 3-Nitrobenzenamine | 0.1 U |
| 4-Bromophenyl phenyl ether | 0.04 U |
| 4-Chloro-3-methylphenol | 0.04 U |
| 4-Chlorobenzenamine | 0.04 U |
| 4-Chlorophenyl phenyl ether | 0.04 U |
| 4-Methylphenol | 0.04 U |
| 4-Nitrobenzenamine | 0.1 U |
| 4-Nitrophenol | 0.1 U |
| Acenaphthene | 0.04 U |
| Acenaphthylene | 0.04 U |
| Anthracene | 0.04 U |
| Benz(a)anthracene | 0.04 U |
| Benzenemethanol | 0.04 U |
| Benzo(a)pyrene | 0.04 U |
| Benzo(b)fluoranthene | 0.04 U |
| Benzo(ghi)perylene | 0.04 U |
| Benzo(k)fluoranthene | 0.04 U |
| Benzoic acid | 0.013 J |

**Table I-43. Buildings and Structures Liquids Semivolatile Organic Compounds (continued)**

| Location | Pink Water and Washdown Sedimentation Sumps Aggregate |
|---|---|
| **Station** | **LL4-175** |
| **Sample ID** | **LL40952** |
| **Customer ID** | **LL4sw-175-0952-SW** |
| **Date** | **08/14/2001** |
| **Filtered** | **Total** |
| **Field Type** | **Grab** |
| **Analyte (mg/L)** | |
| Bis(2-chloroethoxy)methane | 0.04 U |
| Bis(2-chloroethyl) ether | 0.04 U |
| Bis(2-chloroisopropyl) ether | 0.04 U |
| Bis(2-ethylhexyl)phthalate | 0.04 U |
| Butyl benzyl phthalate | 0.04 U |
| Carbazole | 0.04 U |
| Chrysene | 0.04 U |
| Di-n-butyl phthalate | 0.04 U |
| Di-n-octylphthalate | 0.04 U |
| Dibenz(a,h)anthracene | 0.04 U |
| Dibenzofuran | 0.04 U |
| Diethyl phthalate | 0.04 U |
| Dimethyl phthalate | 0.04 U |
| Fluoranthene | 0.04 U |
| Fluorene | 0.04 U |
| Hexachlorobenzene | 0.04 U |
| Hexachlorobutadiene | 0.04 U |
| Hexachlorocyclopentadiene | 0.04 U |
| Hexachloroethane | 0.04 U |
| Indeno(1,2,3-cd)pyrene | 0.04 U |
| Isophorone | 0.04 U |
| N-Nitroso-di-n-propylamine | 0.04 U |
| N-Nitrosodiphenylamine | 0.04 U |
| Naphthalene | 0.04 U |
| Nitrobenzene | 0.04 U |
| Pentachlorophenol | 0.04 U |
| Phenanthrene | 0.04 U |
| Phenol | 0.04 U |
| Pyrene | 0.04 U |

= - detected, J - estimated, U - not detected, R - rejected.

**Table I-44. Buildings and Structures Liquids Volatile Organic Compounds**

| Location | Pink Water and Washdown Sedimentation Sumps Aggregate |
|---|---|
| **Station** | **LL4-175** |
| **Sample ID** | **LL40952** |
| **Customer ID** | **LL4sw-175-0952-SW** |
| **Date** | **08/14/2001** |
| **Filtered** | **Total** |
| **Field Type** | **Grab** |
| **Analyte (mg/L)** | |
| 1,1,1-Trichloroethane | 0.04 U |
| 1,1,2,2-Tetrachloroethane | 0.04 UJ |
| 1,1,2-Trichloroethane | 0.04 U |
| 1,1-Dichloroethane | 0.04 U |
| 1,1-Dichloroethene | 0.04 U |
| 1,2-Dibromoethane | 0.04 U |
| 1,2-Dichloroethane | 0.04 U |
| 1,2-Dichloroethene | 0.04 U |
| 1,2-Dichloropropane | 0.04 U |
| 2-Butanone | 0.4 U |
| 2-Hexanone | 0.4 U |
| 4-Methyl-2-pentanone | 0.4 U |
| Acetone | 0.4 U |
| Benzene | 0.04 U |
| Bromochloromethane | 0.04 U |
| Bromodichloromethane | 0.04 U |
| Bromoform | 0.04 U |
| Bromomethane | 0.04 U |
| Carbon disulfide | 0.04 U |
| Carbon tetrachloride | 0.04 U |
| Chlorobenzene | 0.04 U |
| Chloroethane | 0.04 U |
| Chloroform | 0.04 U |
| Chloromethane | 0.04 U |
| Dibromochloromethane | 0.04 U |
| Dimethylbenzene | 0.04 U |
| Ethylbenzene | 0.04 U |
| Methylene chloride | 0.04 U |
| Styrene | 0.04 U |
| Tetrachloroethene | 0.04 U |
| Toluene | 0.04 U |
| Trichloroethene | 0.04 U |
| Vinyl chloride | 0.04 U |
| cis-1,3-Dichloropropene | 0.04 U |
| trans-1,3-Dichloropropene | 0.04 U |

= - detected, J - estimated, U - not detected, R - rejected.

**Table I-45. Quality Control Results for Inorganics Constituents**

| Station | QC | QC | QC | QC |
|---|---|---|---|---|
| Sample ID | LL41173 | LL41174 | LL41175 | LL41178 |
| Date | 08/13/2001 | 08/13/2001 | 08/22/2001 | 08/14/2001 |
| Filtered | Total | Total | Total | Total |
| Field Type | Equipment Rinsate | Equipment Rinsate | Equipment Rinsate | Potable Water |
| Analyte (mg/L) | | | | |
| Cyanide | 0.01 U | 0.01 U | 0.01 U | 0.024 = |
| Chromium, hexavalent | 0.02 U | 0.02 U | | 0.02 U |
| Aluminum | 0.056 J | 0.045 J | 0.046 U | 0.24 U |
| Antimony | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Arsenic | 0.015 U | 0.015 U | 0.015 U | 0.015 U |
| Barium | 0.01 U | 0.01 U | 0.01 U | 0.039 = |
| Beryllium | 0.005 U | 0.005 U | 0.00081 U | 0.00067 U |
| Cadmium | 0.005 U | 0.005 U | 0.005 U | 0.005 U |
| Calcium | 5 U | 5 U | 5 U | 50 = |
| Chromium | 0.005 U | 0.005 U | 0.005 U | 0.005 U |
| Cobalt | 0.005 U | 0.005 U | 0.005 U | 0.005 U |
| Copper | 0.015 U | 0.015 U | 0.015 U | 0.015 U |
| Iron | 0.3 U | 0.3 U | 0.3 U | 0.3 U |
| Lead | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Magnesium | 5 U | 5 U | 5 U | 15.2 = |
| Manganese | 0.00099 U | 0.015 U | 0.00093 U | 0.0029 J |
| Mercury | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U |
| Nickel | 0.025 U | 0.025 U | 0.025 U | 0.025 U |
| Potassium | 0.17 U | 0.16 U | 0.18 U | 5.6 J |
| Selenium | 0.02 U | 0.02 U | 0.02 U | 0.02 U |
| Silver | 0.005 U | 0.005 U | 0.005 U | 0.005 U |
| Sodium | 5 U | 5 U | 5 U | 57.4 = |
| Thallium | 0.002 U | 0.002 U | 0.002 U | 0.002 UJ |
| Vanadium | 0.007 U | 0.007 U | 0.007 U | 0.007 U |
| Zinc | 0.04 U | 0.04 U | 0.013 J | 0.23 = |

= - detected, J - estimated, U - not detected, R - rejected, QC-quality control.

**Table I-46. Quality Control Results for Propellant and Explosives Constituents**

| Station | QC | QC | QC | QC |
|---|---|---|---|---|
| Sample ID | LL41173 | LL41174 | LL41175 | LL41178 |
| Date | 08/13/2001 | 08/13/2001 | 08/22/2001 | 08/14/2001 |
| Filtered | Total | Total | Total | Total |
| Field Type | Equipment Rinsate | Equipment Rinsate | Equipment Rinsate | Potable Water |
| Analyte (mg/L) | | | | |
| 1,3,5-Trinitrobenzene | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U |
| 1,3-Dinitrobenzene | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U |
| 2,4,6-Trinitrotoluene | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U |
| 2,4-Dinitrotoluene | 0.00013 U | 0.00013 U | 0.00013 U | 0.00013 U |
| 2,6-Dinitrotoluene | 0.00013 U | 0.00013 U | 0.00014 = | 0.00013 U |
| 2-Amino-4,6-dinitrotoluene | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U |
| 2-Nitrotoluene | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U |
| 3-Nitrotoluene | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U |
| 4-Amino-2,6-dinitrotoluene | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U |
| 4-Nitrotoluene | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U |
| HMX | 0.0005 U | 0.0005 U | 0.0005 U | 0.0005 U |
| Nitrobenzene | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U |
| Nitrocellulose | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Nitroglycerin | 0.0025 U | 0.0025 U | 0.0025 U | 0.0025 U |
| Nitroguanidine | 0.02 UJ | 0.02 UJ | 0.02 U | 0.02 UJ |
| RDX | 0.0005 U | 0.0005 U | 0.0005 U | 0.0005 U |
| Tetryl | 0.0002 U | 0.0002 U | 0.0002 U | 0.0002 U |

= - detected, J - estimated, U - not detected, R - rejected, QC-quality control.

**Table I-47. Quality Control Results for Pesticide/PCB Constituents**

| Station | QC | QC | QC | QC |
|---|---|---|---|---|
| Sample ID | LL41173 | LL41174 | LL41175 | LL41178 |
| Date | 08/13/2001 | 08/13/2001 | 08/22/2001 | 08/14/2001 |
| Filtered | Total | Total | Total | Total |
| Field Type | Equipment Rinsate | Equipment Rinsate | Equipment Rinsate | Potable Water |
| Analyte (mg/L) | | | | |
| 4,4'-DDD | 0.00005 UJ | 0.00005 UJ | 0.00005 U | 0.00005 U |
| 4,4'-DDE | 0.00005 UJ | 0.00005 UJ | 0.00005 U | 0.00005 U |
| 4,4'-DDT | 0.00005 UJ | 0.00005 UJ | 0.00005 U | 0.00005 U |
| Aldrin | 0.00005 UJ | 0.00005 UJ | 0.00005 U | 0.00005 U |
| Dieldrin | 0.00005 UJ | 0.00005 UJ | 0.00005 U | 0.00005 U |
| Endosulfan I | 0.00005 UJ | 0.00005 UJ | 0.00005 U | 0.00005 U |
| Endosulfan II | 0.00005 UJ | 0.00005 UJ | 0.00005 U | 0.00005 U |
| Endosulfan sulfate | 0.00005 UJ | 0.00005 UJ | 0.00005 U | 0.00005 U |
| Endrin | 0.00005 UJ | 0.00005 UJ | 0.00005 U | 0.00005 U |
| Endrin aldehyde | 0.00005 UJ | 0.00005 UJ | 0.00005 U | 0.00005 U |
| Endrin ketone | 0.00005 UJ | 0.00005 UJ | 0.00005 U | 0.00005 U |
| Heptachlor | 0.00005 UJ | 0.00005 UJ | 0.00005 U | 0.00005 U |
| Heptachlor epoxide | 0.00005 UJ | 0.00005 UJ | 0.00005 U | 0.00005 U |
| Lindane | 0.00005 UJ | 0.00005 UJ | 0.00005 U | 0.00005 U |
| Methoxychlor | 0.0001 UJ | 0.0001 UJ | 0.0001 U | 0.0001 U |
| PCB-1016 | 0.0005 U | 0.0005 U | 0.0005 U | 0.0005 U |
| PCB-1221 | 0.0005 U | 0.0005 U | 0.0005 U | 0.0005 U |
| PCB-1232 | 0.0005 U | 0.0005 U | 0.0005 U | 0.0005 U |
| PCB-1242 | 0.0005 U | 0.0005 U | 0.0005 U | 0.0005 U |
| PCB-1248 | 0.0005 U | 0.0005 U | 0.0005 U | 0.0005 U |
| PCB-1254 | 0.0005 U | 0.0005 U | 0.0005 U | 0.0005 U |
| PCB-1260 | 0.0005 U | 0.0005 U | 0.0005 U | 0.0005 U |
| Toxaphene | 0.002 UJ | 0.002 UJ | 0.002 U | 0.002 U |
| alpha-BHC | 0.00005 UJ | 0.00005 UJ | 0.00005 U | 0.00005 U |
| alpha-Chlordane | 0.00005 UJ | 0.00005 UJ | 0.00005 U | 0.00005 U |
| beta-BHC | 0.00005 UJ | 0.00005 UJ | 0.00005 U | 0.00005 U |
| delta-BHC | 0.00005 UJ | 0.00005 UJ | 0.00005 U | 0.00005 U |
| gamma-Chlordane | 0.00005 UJ | 0.00005 UJ | 0.00005 U | 0.00005 U |

= - detected, J - estimated, U - not detected, R - rejected, QC-quality control.

**Table I-48. Quality Control Results for Semivolatile Organic Constituents**

| Station | QC | QC | QC | QC |
|---|---|---|---|---|
| Sample ID | LL41173 | LL41174 | LL41175 | LL41178 |
| Date | 08/13/2001 | 08/13/2001 | 08/22/2001 | 08/14/2001 |
| Filtered | Total | Total | Total | Total |
| Field Type | Equipment Rinsate | Equipment Rinsate | Equipment Rinsate | Potable Water |
| Analyte (mg/L) | | | | |
| 1,2,4-Trichlorobenzene | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| 1,2-Dichlorobenzene | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| 1,3-Dichlorobenzene | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| 1,4-Dichlorobenzene | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| 2,4,5-Trichlorophenol | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| 2,4,6-Trichlorophenol | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| 2,4-Dichlorophenol | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| 2,4-Dimethylphenol | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| 2,4-Dinitrophenol | 0.025 U | 0.025 U | 0.025 U | 0.025 U |
| 2,4-Dinitrotoluene | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| 2,6-Dinitrotoluene | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| 2-Chloronaphthalene | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| 2-Chlorophenol | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| 2-Methyl-4,6-dinitrophenol | 0.025 U | 0.025 U | 0.025 U | 0.025 U |
| 2-Methylnaphthalene | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| 2-Methylphenol | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| 2-Nitrobenzenamine | 0.025 U | 0.025 U | 0.025 U | 0.025 U |
| 2-Nitrophenol | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| 3,3'-Dichlorobenzidine | 0.025 U | 0.025 U | 0.025 U | 0.025 U |
| 3-Nitrobenzenamine | 0.025 U | 0.025 U | 0.025 U | 0.025 U |
| 4-Bromophenyl phenyl ether | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| 4-Chloro-3-methylphenol | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| 4-Chlorobenzenamine | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| 4-Chlorophenyl phenyl ether | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| 4-Methylphenol | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| 4-Nitrobenzenamine | 0.025 U | 0.025 U | 0.025 U | 0.025 U |
| 4-Nitrophenol | 0.025 U | 0.025 U | 0.025 U | 0.025 U |
| Acenaphthene | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Acenaphthylene | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Anthracene | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Benz(a)anthracene | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Benzenemethanol | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Benzo(a)pyrene | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Benzo(b)fluoranthene | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Benzo(ghi)perylene | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Benzo(k)fluoranthene | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Benzoic acid | 0.035 U | 0.035 U | 0.035 U | 0.035 U |
| Bis(2-chloroethoxy)methane | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Bis(2-chloroethyl) ether | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Bis(2-chloroisopropyl) ether | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Bis(2-ethylhexyl)phthalate | 0.01 U | 0.01 U | 0.01 UJ | 0.01 U |
| Butyl benzyl phthalate | 0.01 U | 0.01 U | 0.01 U | 0.01 U |

**Table I-48. Quality Control Results for Semivolatile Organic Constituents (continued)**

| Station | QC | QC | QC | QC |
|---|---|---|---|---|
| Sample ID | LL41173 | LL41174 | LL41175 | LL41178 |
| Date | 08/13/2001 | 08/13/2001 | 08/22/2001 | 08/14/2001 |
| Filtered | Total | Total | Total | Total |
| Field Type | Equipment Rinsate | Equipment Rinsate | Equipment Rinsate | Potable Water |
| Analyte (mg/L) | | | | |
| Carbazole | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Chrysene | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Di-n-butyl phthalate | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Di-n-octylphthalate | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Dibenz(a,h)anthracene | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Dibenzofuran | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Diethyl phthalate | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Dimethyl phthalate | 0.01 R | 0.01 R | 0.01 U | 0.01 U |
| Fluoranthene | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Fluorene | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Hexachlorobenzene | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Hexachlorobutadiene | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Hexachlorocyclopentadiene | 0.01 R | 0.01 R | 0.01 U | 0.01 U |
| Hexachloroethane | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Indeno(1,2,3-cd)pyrene | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Isophorone | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| N-Nitroso-di-n-propylamine | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| N-Nitrosodiphenylamine | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Naphthalene | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Nitrobenzene | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Pentachlorophenol | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Phenanthrene | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Phenol | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Pyrene | 0.01 U | 0.01 U | 0.01 U | 0.01 U |

= - detected, J - estimated, U - not detected, R - rejected, QC-quality control.

**Table I-49. Quality Control Results for Volatile Organic Constituents**

| Station | QC | QC | QC | QC | QC |
|---|---|---|---|---|---|
| Sample ID | LL41173 | LL41174 | LL41175 | LL41176 | LL41178 |
| Date | 08/13/2001 | 08/13/2001 | 08/22/2001 | 08/22/2001 | 08/14/2001 |
| Filtered | Total | Total | Total | Total | Total |
| Field Type | Equipment Rinsate | Equipment Rinsate | Equipment Rinsate | Trip Blank | Potable Water |
| Analyte (mg/L) | | | | | |
| 1,1,1-Trichloroethane | 0.001 U | 0.0012 U | 0.001 U | 0.001 U | 0.001 U |
| 1,1,2,2-Tetrachloroethane | 0.001 UJ | 0.0012 UJ | 0.001 UJ | 0.001 UJ | 0.001 UJ |
| 1,1,2-Trichloroethane | 0.001 U | 0.0012 U | 0.001 U | 0.001 U | 0.001 U |
| 1,1-Dichloroethane | 0.001 U | 0.0012 U | 0.001 U | 0.001 U | 0.001 U |
| 1,1-Dichloroethene | 0.001 U | 0.0012 U | 0.001 U | 0.001 U | 0.001 U |
| 1,2-Dibromoethane | 0.001 U | 0.0012 U | 0.001 U | 0.001 U | 0.001 U |
| 1,2-Dichloroethane | 0.001 U | 0.0012 U | 0.001 U | 0.001 U | 0.001 U |
| 1,2-Dichloroethene | 0.001 U | 0.0012 U | 0.001 U | 0.001 U | 0.001 U |
| 1,2-Dichloropropane | 0.001 U | 0.0012 U | 0.001 U | 0.001 U | 0.001 U |
| 2-Butanone | 0.00065 J | 0.0007 J | 0.01 U | 0.01 U | 0.01 U |
| 2-Hexanone | 0.01 U | 0.012 U | 0.01 U | 0.01 U | 0.01 U |
| 4-Methyl-2-pentanone | 0.01 U | 0.012 U | 0.01 U | 0.01 U | 0.01 U |
| Acetone | 0.043 J | 0.063 J | 0.027 J | 0.01 U | 0.0062 J |
| Benzene | 0.001 U | 0.0012 U | 0.001 U | 0.001 U | 0.001 U |
| Bromochloromethane | 0.001 U | 0.0012 U | 0.001 U | 0.001 U | 0.001 U |
| Bromodichloromethane | 0.001 U | 0.0012 U | 0.001 U | 0.001 U | 0.015 = |
| Bromoform | 0.001 U | 0.0012 U | 0.001 U | 0.001 U | 0.001 U |
| Bromomethane | 0.001 U | 0.0012 U | 0.001 UJ | 0.001 UJ | 0.001 U |
| Carbon disulfide | 0.00092 J | 0.00036 J | 0.001 UJ | 0.001 UJ | 0.001 U |
| Carbon tetrachloride | 0.001 U | 0.0012 U | 0.001 U | 0.001 U | 0.001 U |
| Chlorobenzene | 0.001 U | 0.0012 U | 0.001 U | 0.001 U | 0.001 U |
| Chloroethane | 0.001 U | 0.0012 U | 0.001 UJ | 0.001 UJ | 0.001 U |
| Chloroform | 0.001 U | 0.0012 U | 0.001 U | 0.001 U | 0.03 = |
| Chloromethane | 0.001 U | 0.0012 U | 0.001 UJ | 0.001 UJ | 0.001 U |
| Dibromochloromethane | 0.001 U | 0.0012 U | 0.001 U | 0.001 U | 0.0033 = |
| Dimethylbenzene | 0.001 U | 0.0012 U | 0.001 U | 0.001 U | 0.001 U |
| Ethylbenzene | 0.001 U | 0.0012 U | 0.001 U | 0.001 U | 0.001 U |
| Methylene chloride | 0.001 U | 0.0012 U | 0.001 U | 0.001 U | 0.001 U |
| Styrene | 0.001 U | 0.0012 U | 0.001 U | 0.001 U | 0.001 U |
| Tetrachloroethene | 0.001 U | 0.0012 U | 0.001 U | 0.001 U | 0.001 U |
| Toluene | 0.00026 J | 0.0012 U | 0.001 U | 0.00031 J | 0.001 U |
| Trichloroethene | 0.001 U | 0.0012 U | 0.001 U | 0.001 U | 0.001 U |
| Vinyl chloride | 0.001 U | 0.0012 U | 0.001 UJ | 0.001 UJ | 0.001 U |
| cis-1,3-Dichloropropene | 0.001 U | 0.0012 U | 0.001 U | 0.001 U | 0.001 U |
| trans-1,3-Dichloropropene | 0.001 U | 0.0012 U | 0.001 U | 0.001 U | 0.001 U |

**Table I-49. Quality Control Results for Volatile Organic Constituents (continued)**

| Station | QC | QC | QC | QC | QC |
|---|---|---|---|---|---|
| Sample ID | LL41179 | LL41180 | LL41181 | LL41182 | LL41183 |
| Date | 08/13/2001 | 08/14/2001 | 08/20/2001 | 09/04/2001 | 09/06/2001 |
| Filtered | Total | Total | Total | Total | Total |
| Field Type | Trip Blank | Trip Blank | Trip Blank | Trip Blank | Trip Blank |
| Analyte (mg/L) | | | | | |
| 1,1,1-Trichloroethane | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U |
| 1,1,2,2-Tetrachloroethane | 0.001 UJ | 0.001 UJ | 0.001 UJ | 0.001 U | 0.001 U |
| 1,1,2-Trichloroethane | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U |
| 1,1-Dichloroethane | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U |
| 1,1-Dichloroethene | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U |
| 1,2-Dibromoethane | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U |
| 1,2-Dichloroethane | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U |
| 1,2-Dichloroethene | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U |
| 1,2-Dichloropropane | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U |
| 2-Butanone | 0.01 U | 0.0008 J | 0.00087 J | 0.00054 J | 0.01 U |
| 2-Hexanone | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| 4-Methyl-2-pentanone | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U |
| Acetone | 0.002 J | 0.027 J | 0.026 J | 0.028 = | 0.01 U |
| Benzene | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U |
| Bromochloromethane | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U |
| Bromodichloromethane | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U |
| Bromoform | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U |
| Bromomethane | 0.001 U | 0.001 U | 0.001 UJ | 0.001 U | 0.001 U |
| Carbon disulfide | 0.001 U | 0.001 U | 0.001 UJ | 0.001 U | 0.001 U |
| Carbon tetrachloride | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U |
| Chlorobenzene | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U |
| Chloroethane | 0.001 U | 0.001 U | 0.001 UJ | 0.001 U | 0.001 U |
| Chloroform | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U |
| Chloromethane | 0.001 U | 0.001 U | 0.001 UJ | 0.001 U | 0.001 U |
| Dibromochloromethane | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U |
| Dimethylbenzene | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U |
| Ethylbenzene | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U |
| Methylene chloride | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U |
| Styrene | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U |
| Tetrachloroethene | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U |
| Toluene | 0.001 U | 0.00026 J | 0.00055 J | 0.00021 J | 0.00042 J |
| Trichloroethene | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U |
| Vinyl chloride | 0.001 U | 0.001 U | 0.001 UJ | 0.001 U | 0.001 U |
| cis-1,3-Dichloropropene | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U |
| trans-1,3-Dichloropropene | 0.001 U | 0.001 U | 0.001 U | 0.001 U | 0.001 U |

= - detected, J - estimated, U - not detected, R - rejected, QC-quality control.

**THIS PAGE INTENTIONALLY LEFT BLANK.**

# CHAIN OF CUSTODY RECORDS

**THIS PAGE INTENTIONALLY LEFT BLANK.**

SAIC An Employee-Owned Company
Science Applications International Corporation
151 Layfayette Drive, Oak Ridge, Tennessee 37831(865) 481-4600

# CHAIN OF CUSTODY RECORD

COC NO.: LL4STL - 01
page 1 of 3

PROJECT NAME: Load Line 4 Phase II RI

DELIVERY ORDER NUMBER: ECAS 186

PROJECT MANAGER: Kevin Jago 865-481-4614

Sampler (Signature): Vicki Brumback (Printed Name): Vicki Brumback

LABORATORY NAME: Severn Trent Laboratories, Inc.

LABORATORY ADDRESS: 4101 Shuffel Drive NW, North Canton, Ohio 44720, Attn: Debbie Budd

PHONE NO: 330-497-9396

REQUESTED PARAMETERS — SOIL

| Sample ID | Date Collected | Time Collected | Matrix | TAL Metals | Cr+6 | CN | Explosives | Propellants | VOCs | SVOCs | Pesticides | PCBs | As+3 | TOC | TCLP | No. of Containers | OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL40990 | 8-11-01 | 1531 | sediment | X | | | | | X | X | X | X | | X | | 4 | |
| LL40954 | 8-11-01 | 1715 | sediment | X | | | | | | | | X | | | | 2 | |
| LL40953 | 8-11-01 | 1644 | sediment | X | | | | | X | X | X | X | | X | | 4 | |
| LL41140 | 8-12-01 | 0911 | sediment | X | | | X | | | | | X | | | | 3 | dup of LL40999 |
| LL40979 | 8-12-01 | 0911 | sediment | X | | | | | | | | X | | | | 2 | |
| LL40980 | 8-12-01 | 1035 | Sediment | X | | | | | | | | X | | | | 2 | |
| LL40977 | 8-12-01 | 1357 | sediment | X | | | | | | | | X | | | | 2 | |
| LL40961 | 8-12-01 | 1615 | sediment | X | | | | | | | | X | | | | 2 | RUN MS/MSD |
| LL40801 | 8-12-01 | 1535 | soil | X | | | | | | | | X | | | | 2 | |
| LL40798 | 8-12-01 | 1455 | soil | X | | X | | | X | X | X | X | | | | 5 | |
| LL40793 | 8-12-01 | 1610 | Soil | X | | | | | | | | X | | | | 2 | |
| LL40999 | 8-13-01 | 1200 | sediment | X | | | | | | | | X | | | | 2 | |
| LL41003 | 8-13-01 | 1045 | sediment | X | | | | | X | X | X | X | | | | 3 | |

OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS: 33

| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time | TOTAL NUMBER OF: See p3/3 | Cooler Temperature: 4°C |
|---|---|---|---|---|---|
| Vicki Brumback | 8-13-01 1600 | | | Cooler ID: A36 | FEDEX NUMBER: NA - Courier pickup |
| COMPANY NAME: SAIC | | COMPANY NAME: | | | |
| RECEIVED BY: Al Waidet | Date/Time 8-13-01 1600 | RELINQUISHED BY: | Date/Time | | |
| COMPANY NAME: | | COMPANY NAME: | | | |
| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time | | |
| COMPANY NAME: | | COMPANY NAME: | | | |

SAIC An Employee-Owned Company
Science Applications International Corporation
151 Layfayette Drive, Oak Ridge, Tennessee 37831(865) 481-4600

# CHAIN OF CUSTODY RECORD

COC NO.: LL4STL - 01
page 2 of 3

PROJECT NAME: Load Line 4 Phase II RI

DELIVERY ORDER NUMBER: ECAS 186

PROJECT MANAGER: Kevin Jago 865-481-4614

Sampler (Signature): Vicki Brumbach (Printed Name): Vicki Brumbach

REQUESTED PARAMETERS

SOIL

| Sample ID | Date Collected | Time Collected | Matrix | TAL Metals | Cr+6 | CN | Explosives | Propellants | VOCs | SVOCs | Pesticides | PCBs | As+3 | TOC | TCLP | No. of Containers |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL4 0997 ✓ | 8-13-01 | 0942 | Sediment | X | | | | | X | X | X | X | | | | 3 |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | 3 |

LABORATORY NAME: Severn Trent Laboratories, Inc.

LABORATORY ADDRESS: 4101 Shuffel Drive NW, North Canton, Ohio 44720, Attn: Debbie Budd

PHONE NO: 330-497-9396

OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS

| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time | TOTAL NUMBER OF Sec p 3/3 | Cooler Temperature: 4°C |
|---|---|---|---|---|---|
| Vicki Brumbach | 8-13-01 1600 | | | Cooler ID: A36 | FEDEX NUMBER: NA Courier pickup |
| COMPANY NAME: SAIC | | COMPANY NAME: | | | |
| RECEIVED BY: Al Waidet | Date/Time 8-13-01 1600 | RELINQUISHED BY: | Date/Time | | |
| COMPANY NAME: | | COMPANY NAME: | | | |
| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time | | |
| COMPANY NAME: | | COMPANY NAME: | | | |

SAIC An Employee-Owned Company
Science Applications International Corporation
151 Layfayette Drive, Oak Ridge, Tennessee 37831(865) 481-4600

# CHAIN OF CUSTODY RECORD

COC NO.: LL4STL - 01
page 2 of 3

PROJECT NAME: Load Line 4 Phase II RI

DELIVERY ORDER NUMBER: ECAS 186

PROJECT MANAGER: Kevin Jago 865-481-4614

Sampler (Signature): Vicki Brumbach (Printed Name): Vicki Brumbach

REQUESTED PARAMETERS — WATER

| Sample ID | Date Collected | Time Collected | Matrix | VOCs | SVOCs | PCBs | Pesticides | Metals | CN | Explosives | Propellants | Filtered Metals | No. of Containers | OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL4 0998 | 8-13-01 | 0835 | water | | | | | 1 | 1 | | | | 2 | |
| LL4 1154 | 8-13-01 | 0835 | water | | | | | 1 | 1 | | | | 2 | dup of LL40998 |
| LL4 0987 | 8-12-01 | 1535 | water | | | | | 1 | | | | | 1 | |
| LL4 0978 | 8-12-01 | 1357 | water | | | | | 1 | | | | | 1 | |
| LL4 0983 | 8-12-01 | 1600 | water | | | | | 1 | | | | | 1 | |

vjb 8-13-01

LABORATORY NAME: Severn Trent Laboratories, Inc.

LABORATORY ADDRESS: 4101 Shuffel Drive NW, North Canton, Ohio 44720, Attn: Debbie Budd

PHONE NO: 330-497-9396

| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time |
|---|---|---|---|
| Vicki Brumbach | 8/13/01 1600 | | |
| COMPANY NAME: SAIC | | COMPANY NAME: | |
| RECEIVED BY: | Date/Time | RELINQUISHED BY: | Date/Time |
| | 8-13-01 | | |
| COMPANY NAME: Air Freight | 1600 | COMPANY NAME: | |
| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time |
| COMPANY NAME: | | COMPANY NAME: | |

TOTAL NUMBER OF 40 | Cooler Temperature: 4°C

Cooler ID: A36 | FEDEX NUMBER:

~~Some of~~ ~~vials for these water samples will be delivered tomorrow.~~ vjb

Other parameters for these water samples are packed in other coolers w/ this shipment

SAIC An Employee-Owned Company
Science Applications International Corporation
151 Layfayette Drive, Oak Ridge, Tennessee 37831(865) 481-4600

# CHAIN OF CUSTODY RECORD

COC NO.: LL4STL - 02
page 1 of 1

PROJECT NAME: Load Line 4 Phase II RI

DELIVERY ORDER NUMBER: ECAS 186

PROJECT MANAGER: Kevin Jago 865-481-4614

Sampler (Signature) Vicki Brumbach (Printed Name) Vicki Brumbach

LABORATORY NAME: Severn Trent Laboratories, Inc.

LABORATORY ADDRESS: 4101 Shuffel Drive NW, North Canton, Ohio 44720, Attn: Debbie Budd

PHONE NO: 330-497-9396

REQUESTED PARAMETERS — WATER

| Sample ID | Date Collected | Time Collected | Matrix | VOCs | SVOCs | PCBs | Pesticides | Metals | CN | Explosives | Propellants | Filtered Metals | No. of Containers | OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL4 1154 | 8-13-01 | 0835 | | | 2 | 2 | 2 | | | 2 | 2 | | 10 | |

I-150

RELINQUISHED BY: Vicki Brumbach — Date/Time 8-13-01 1600 — COMPANY NAME: SAIC

RECEIVED BY: — Date/Time — COMPANY NAME:

RECEIVED BY: Al Haidet — Date/Time 8-13-01 1600 — COMPANY NAME:

RELINQUISHED BY: — Date/Time — COMPANY NAME:

RELINQUISHED BY: — Date/Time — COMPANY NAME:

RECEIVED BY: — Date/Time — COMPANY NAME:

TOTAL NUMBER OF 10

Cooler Temperature: 4°C

Cooler ID: J859

FEDEX NUMBER: NA - Courier pickup

~~VOCs for these samples will be delivered tomorrow.~~ vjb

Metals/CN containers for these samples are in another cooler w/ this shipment.

SAIC An Employee-Owned Company
Science Applications International Corporation
151 Layfayette Drive, Oak Ridge, Tennessee 37831(865) 481-4600

# CHAIN OF CUSTODY RECORD

COC NO.: LL4STL - 03
page 1 of 1

PROJECT NAME: Load Line 4 Phase II RI

DELIVERY ORDER NUMBER: ECAS 186

PROJECT MANAGER: Kevin Jago 865-481-4614

Sampler (Signature): Vicki Brumbach (Printed Name): Vicki Brumbach

LABORATORY NAME: Severn Trent Laboratories, Inc.

LABORATORY ADDRESS: 4101 Shuffel Drive NW, North Canton, Ohio 44720, Attn: Debbie Budd

PHONE NO: 330-497-9396

REQUESTED PARAMETERS — WATER

| Sample ID | Date Collected | Time Collected | Matrix | VOCs | SVOCs | PCBs | Pesticides | Metals | CN | Explosives | Propellants | Filtered Metals | No. of Containers | OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL40998 V | 8-13-01 | 0835 | water | | 2 | 2 | 2 | | | 2 | 2 | | 10 | |

1/10 8-13-01

I-151

| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time | TOTAL NUMBER OF 10 | Cooler Temperature: 4°C |
|---|---|---|---|---|---|
| Vicki Brumbach | 8-13-01 1600 | | | Cooler ID: G81 | FEDEX NUMBER: NA Courier pickup |
| COMPANY NAME: SAIC | | COMPANY NAME: | | | |
| RECEIVED BY: Al Waidet | Date/Time 8-13-01 1600 | RELINQUISHED BY: | Date/Time | | |
| COMPANY NAME: | | COMPANY NAME: | | | |
| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time | | |
| COMPANY NAME: | | COMPANY NAME: | | | |

SAIC An Employee-Owned Company
Science Applications International Corporation
151 Layfayette Drive, Oak Ridge, Tennessee 37831(865) 481-4600

# CHAIN OF CUSTODY RECORD

COC NO.: LL4STL - 04
page 1 of 1

PROJECT NAME: Load Line 4 Phase II RI

DELIVERY ORDER NUMBER: ECAS 186

PROJECT MANAGER: Kevin Jago 865-481-4614

Sampler (Signature): Vicki Brumbach (Printed Name): Vicki Brumbach

LABORATORY NAME: Severn Trent Laboratories, Inc.

LABORATORY ADDRESS: 4101 Shuffel Drive NW, North Canton, Ohio 44720, Attn: Debbie Budd

PHONE NO: 330-497-9396

REQUESTED PARAMETERS — WATER

| Sample ID | Date Collected | Time Collected | Matrix | VOCs | SVOCs | PCBs | Pesticides | Metals | CN | Explosives | Propellants | Filtered Metals | No. of Containers | OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL40978 | 8-12-01 | 1357 | water | | | 2 | | | | 2 | | | 4 | |
| LL40987 | 8-12-01 | 1535 | water | | | 2 | | | | 2 | | | 4 | |

lyb 8-13-01

I-152

| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time | TOTAL NUMBER OF 8 | Cooler Temperature: 4°C |
|---|---|---|---|---|---|
| Vicki Brumbach | 8-13-01 1600 | | | Cooler ID: J835 | FEDEX NUMBER: NA Courier pickup |
| COMPANY NAME: SAIC | | COMPANY NAME: | | | |
| RECEIVED BY: Al Haidet | Date/Time 8-13-01 1600 | RELINQUISHED BY: | Date/Time | | |
| COMPANY NAME: | | COMPANY NAME: | | | |
| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time | | |
| COMPANY NAME: | | COMPANY NAME: | | | |

SAIC An Employee-Owned Company
Science Applications International Corporation
151 Layfayette Drive, Oak Ridge, Tennessee 37831(865) 481-4600

# CHAIN OF CUSTODY RECORD

COC NO.: LL4STL - 05
page 1 of 1

PROJECT NAME: Load Line 4 Phase II RI

DELIVERY ORDER NUMBER: ECAS 186

PROJECT MANAGER: Kevin Jago 865-481-4614

Sampler (Signature) Vicki Brumback (Printed Name) Vicki Brumback

LABORATORY NAME: Severn Trent Laboratories, Inc.

LABORATORY ADDRESS: 4101 Shuffel Drive NW, North Canton, Ohio 44720, Attn: Debbie Budd

PHONE NO: 330-497-9396

REQUESTED PARAMETERS — WATER

| Sample ID | Date Collected | Time Collected | Matrix | VOCs | SVOCs | PCBs | Pesticides | Metals | CN | Explosives | Propellants | Filtered Metals | No. of Containers | OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL40983 | 8-12-01 | 1600 | water | | | 2 | | | | 2 | | | 4 | |
| LL41174 | 8-13-01 | 1405 | water | 3 | | | | | | | | | 3 | |
| LL41173 | 8-13-01 | 1345 | water | 3 | | | | | | | | | 3 | |
| LL41179 | 8-13-01 | 0825 | water | 2 | | | | | | | | | 2 | TRIP BLANK |
| LL41154 | 8-13-01 | 0835 | water | 3 | | | | | | | | | 3 | |
| LL40998 | 8-13-01 | 0835 | water | 3 | | | | | | | | | 3 | |

yb 8-13-01

| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time | TOTAL NUMBER OF 18 | Cooler Temperature: 4°C |
|---|---|---|---|---|---|
| Vicki Brumback | 8/13/01 1600 | | | Cooler ID: K49 | FEDEX NUMBER: NA Courier pickup |
| COMPANY NAME: SAIC | | COMPANY NAME: | | | |
| RECEIVED BY: Al Kraidat | Date/Time 8-13-01 1600 | RELINQUISHED BY: | Date/Time | | |
| COMPANY NAME: | | COMPANY NAME: | | | |
| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time | | |
| COMPANY NAME: | | COMPANY NAME: | | | |

SAIC An Employee-Owned Company
Science Applications International Corporation
151 Layfayette Drive, Oak Ridge, Tennessee 37831(865) 481-4600

# CHAIN OF CUSTODY RECORD

COC NO.: LL4STL - 06
page 1 of 1

PROJECT NAME: Load Line 4 Phase II RI

DELIVERY ORDER NUMBER: ECAS 186

PROJECT MANAGER: Kevin Jago 865-481-4614

Sampler (Signature) Vicki Brumbach (Printed Name) Vicki Brumbach

LABORATORY NAME: Severn Trent Laboratories, Inc.

LABORATORY ADDRESS: 4101 Shuffel Drive NW, North Canton, Ohio 44720, Attn: Debbie Budd

PHONE NO: 330-497-9396

REQUESTED PARAMETERS — WATER

| Sample ID | Date Collected | Time Collected | Matrix | VOCs | SVOCs | PCBs | Pesticides | Metals | CN | Explosives | Propellants | Filtered Metals | Hexavalent Chromium | No. of Containers | OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL4 1173 | 8-13-01 | 1345 | water | | 2 | 2 | 2 | 1 | 1 | 2 | 2 | | 1 | ~~12~~ 13 | VJB |

VJB 8/13/01

I-154

| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time | TOTAL NUMBER OF 13 | Cooler Temperature: 4°C |
|---|---|---|---|---|---|
| Vicki Brumbach | 8-13-01 1600 | | | Cooler ID: K153 | FEDEX NUMBER: NA - Courier pickup |
| COMPANY NAME: SAIC | | COMPANY NAME: | | | |
| RECEIVED BY: Al Waidet | Date/Time 8-13-01 1600 | RELINQUISHED BY: | Date/Time | | |
| COMPANY NAME: | | COMPANY NAME: | | | |
| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time | | |
| COMPANY NAME: | | COMPANY NAME: | | | |

SAIC An Employee-Owned Company
Science Applications International Corporation
151 Layfayette Drive, Oak Ridge, Tennessee 37831(865) 481-4600

# CHAIN OF CUSTODY RECORD

COC NO.: LL4STL - 07
page 1 of 1

PROJECT NAME: Load Line 4 Phase II RI

DELIVERY ORDER NUMBER: ECAS 186

PROJECT MANAGER: Kevin Jago 865-481-4614

Sampler (Signature): Vicki Brumbach (Printed Name): Vicki Brumbach

REQUESTED PARAMETERS

WATER

| Sample ID | Date Collected | Time Collected | Matrix | VOCs | SVOCs | PCBs | Pesticides | Metals | CN | Explosives | Propellants | Filtered Metals | Hexavalent chromium | No. of Containers |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL41174 | 8-13-01 | 1405 | water | | 2 | 2 | 2 | 1 | 1 | 2 | 2 | | 1 | 13 |

VIB 8-13-01

LABORATORY NAME: Severn Trent Laboratories, Inc.

LABORATORY ADDRESS: 4101 Shuffel Drive NW, North Canton, Ohio 44720, Attn: Debbie Budd

PHONE NO: 330-497-9396

OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS

| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time |
|---|---|---|---|
| Vicki Brumbach | 8-13-01 1600 | | |
| COMPANY NAME: SAIC | | COMPANY NAME: | |
| RECEIVED BY: Al Wardut | Date/Time 8-13-01 1600 | RELINQUISHED BY: | Date/Time |
| COMPANY NAME: | | COMPANY NAME: | |
| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time |
| COMPANY NAME: | | COMPANY NAME: | |

TOTAL NUMBER OF 13

Cooler Temperature: 4°C

Cooler ID: K99

FEDEX NUMBER: NA - Courier pickup

SAIC An Employee-Owned Company
Science Applications International Corporation
151 Layfayette Drive, Oak Ridge, Tennessee 37831(865) 481-4600

# CHAIN OF CUSTODY RECORD

COC NO.: LL4STL - 08
page 1 of 2

PROJECT NAME: Load Line 4 Phase II RI

DELIVERY ORDER NUMBER: ECAS 186

PROJECT MANAGER: Kevin Jago 865-481-4614

Sampler (Signature): Vicki Brumback (Printed Name): Vicki Brumback

LABORATORY NAME: Severn Trent Laboratories, Inc.

LABORATORY ADDRESS: 4101 Shuffel Drive NW, North Canton, Ohio 44720, Attn: Debbie Budd

PHONE NO: 330-497-9396

REQUESTED PARAMETERS — SOIL

| Sample ID | Date Collected | Time Collected | Matrix | TAL Metals | Cr+6 | CN | Explosives | Propellants | VOCs | SVOCs | Pesticides | PCBs | As+3 | TOC | TCLP | No. of Containers | OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL40999 | 8-13-01 | 1200 | sediment | | | | X | | | | | | | | | 1 | |
| LL40998 | 8-11-01 | 1531 | sediment | | | | X | | | | | | | | | 1 | |
| 40977 | 8-12-01 | 1357 | sediment | | | | X | | | | | | | | | 1 | |
| 40980 | 8-12-01 | 1035 | sediment | | | | X | | | | | | | | | 1 | |
| L40973 | 8-13-01 | 1410 | sediment | X | X | | | | | | | X | | X | | 3 | |
| L40787 | 8-13-01 | 1635 | soil | X | | | | | | | | X | | | | 2 | |
| L40796 | 8-13-01 | 1605 | soil | X | | | | | | | | X | | | | 2 | |
| L40797 | 8-13-01 | 1550 | soil | X | | | | | | | | X | | | | 2 | |
| LL40971 | 8-13-01 | 1511 | sediment | X | X | | | | | | | X | | X | | 3 | |
| LL41137 | 8-13 01 | 1551 | sediment | X | | X | X | X | X | X | X | X | | | | 5 | dup of LL40887 |
| LL40955 | 8-13-01 | 1700 | sediment | X | | | | | | | | X | | | | 2 | |
| LL40887 | 8-13-01 | 1551 | sediment | X | | X | | | | X | X | X | | | | 2 | |
| LL40962 | 8-13-01 | 1515 | sediment | X | | | | | | | | X | | | | 2 | |

I-156

| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time | TOTAL NUMBER OF Sep 7/2 | Cooler Temperature: 4°C |
|---|---|---|---|---|---|
| Vicki Brumback | 8-14-01 | | | Cooler ID: G77 | FEDEX NUMBER: NA - Courier pickup |
| COMPANY NAME: SAIC | 1730 | COMPANY NAME: | | | |
| RECEIVED BY: Al Waidet | Date/Time 8-14-01 | RELINQUISHED BY: | Date/Time | | |
| COMPANY NAME: | 1730 | COMPANY NAME: | | | |
| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time | | |
| COMPANY NAME: | | COMPANY NAME: | | | |

SAIC An Employee-Owned Company
Science Applications International Corporation
151 Layfayette Drive, Oak Ridge, Tennessee 37831(865) 481-4500

# CHAIN OF CUSTODY RECORD

COC NO.: LL4STL - 08
page 2 of 2

PROJECT NAME: Load Line 4 Phase II RI

DELIVERY ORDER NUMBER: ECAS 186

PROJECT MANAGER: Kevin Jago 865-481-4614

Sampler (Signature): Vicki Brumback (Printed Name): Vicki Brumback

REQUESTED PARAMETERS

WATER

| Sample ID | Date Collected | Time Collected | Matrix | VOCs | SVOCs | PCBs | Pesticides | Metals | CN | Explosives | Propellants | Filtered Metals | No. of Containers | OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL40974 ✓ | 8-13-01 | 1400 | Water | | | 2 | | 1 | | 2 | | | 5 | |
| LL40956 ✓ | 8-13-01 | 1700 | Water | | | 2 | | 1 | | 2 | | | 5 | ONE BROKEN AMBER |

Kib 8/14/01

LABORATORY NAME: Severn Trent Laboratories, Inc.

LABORATORY ADDRESS: 4101 Shuffel Drive NW, North Canton, Ohio 44720, Attn: Debbie Budd

PHONE NO: 330-497-9396

| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time |
|---|---|---|---|
| Vicki Brumback | 8-14-01 1730 | | |
| COMPANY NAME: SAIC | | COMPANY NAME: | |
| RECEIVED BY: | Date/Time | RELINQUISHED BY: | Date/Time |
| [illegible] | 8-14-01 1730 | | |
| COMPANY NAME: | | COMPANY NAME: | |
| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time |
| COMPANY NAME: | | COMPANY NAME: | |

TOTAL NUMBER OF 37

Cooler Temperature: 4°C

Cooler ID: G77

FEDEX NUMBER: NA Courier pickup

SAIC An Employee-Owned Company
Science Applications International Corporation
151 Layfayette Drive, Oak Ridge, Tennessee 37831(865) 481-4600

# CHAIN OF CUSTODY RECORD

COC NO.: LL4STL - 09
page 1 of 2

PROJECT NAME: Load Line 4 Phase II RI

DELIVERY ORDER NUMBER: ECAS 186

PROJECT MANAGER: Kevin Jago 865-481-4614

Sampler (Signature): Vicki Brumback (Printed Name): Vicki Brumback

REQUESTED PARAMETERS — SOIL

| Sample ID | Date Collected | Time Collected | Matrix | TAL Metals | Cr+6 | CN | Explosives | Propellants | VOCs | SVOCs | Pesticides | PCBs | As+3 | TOC | TCLP | No. of Containers | OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL40790 | 8-14-01 | 0820 | soil | X | | | | | | | | X | | | | 2 | |
| LL40860 | 8-14-01 | 1145 | soil | X | | | | | | | | X | | | | 2 | EVN MS/MSD |
| L40859 | 8-14-01 | 1120 | soil | X | | | | | | | | X | | | | 2 | |
| L40750 | 8-14-01 | 1025 | soil | X | | | | | | | | X | | | | 2 | |
| L40863 | 8-14-01 | 1010 | soil | X | | | | | | | | X | | | | 2 | |
| L40784 | 8-14-01 | 0900 | soil | X | | | | | | | | X | | | | 2 | |
| L40849 | 8-14-01 | 1125 | soil | X | | | | | | | | X | | | | 2 | |
| LL41143 | 8-14-01 | 1125 | soil | X | | | | | | | | X | | | | 2 | dup of L40849 |
| LL40887 | 8-14-01 | 0805 | sediment | | | | | X | X | | | | | | | 2 | |
| LL41147 | 8-14-01 | 0820 | soil | X | | | | | | | | X | | | | 2 | dup of LL40790 |
| LL40875 | 8-14-01 | 1120 | soil | X | X | X | | | X | X | | X | | | | 3 | |
| | | | | | | | | | Hg | | | | | | | | (23) |

T-158

LABORATORY NAME: Severn Trent Laboratories, Inc.

LABORATORY ADDRESS: 4101 Shuffel Drive NW, North Canton, Ohio 44720, Attn: Debbie Budd

PHONE NO: 330-497-9396

| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time |
|---|---|---|---|
| Vicki Brumback | 8-14-01 1730 | | |
| COMPANY NAME: SAIC | | COMPANY NAME: | |
| RECEIVED BY: Al Hall | Date/Time 8-14-01 1731 | RELINQUISHED BY: | Date/Time |
| COMPANY NAME: | | COMPANY NAME: | |
| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time |
| COMPANY NAME: | | COMPANY NAME: | |

TOTAL NUMBER OF See p 2/2

Cooler Temperature: 4°C

Cooler ID: K222

FEDEX NUMBER: NA Courier pickup

SAIC An Employee-Owned Company
Science Applications International Corporation
151 Layfayette Drive, Oak Ridge, Tennessee 37831(865) 481-4600

# CHAIN OF CUSTODY RECORD

COC NO.: LL4STL - 09
page 2 of 2

PROJECT NAME: Load Line 4 Phase II RI

DELIVERY ORDER NUMBER: ECAS 186

PROJECT MANAGER: Kevin Jago 865-481-4614

Sampler (Signature) (Printed Name)
Vicki Brumback Vicki Brumback

REQUESTED PARAMETERS

WATER

| Sample ID | Date Collected | Time Collected | Matrix | VOCs | SVOCs | PCBs | Pesticides | Metals | CN | Explosives | Propellants | Filtered Metals | No. of Containers |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL40972 | 8-13-01 | 1500 | water | | | 2 | | 1 | 1 | 2 | | | 6 |
| LL40966 | 8-14-01 | 1015 | water | | | 2 | | 1 | | 2 | | | 5 |

Kb 8-14-01

L-159

LABORATORY NAME:
Severn Trent Laboratories, Inc.

LABORATORY ADDRESS:
4101 Shuffel Drive NW
North Canton, Ohio 44720
Attn: Debbie Budd

PHONE NO: 330-497-9396

OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS

| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time |
|---|---|---|---|
| Vicki Brumback | 8-14-01 1730 | | |
| COMPANY NAME: SAIC | | COMPANY NAME: | |
| RECEIVED BY: Al Waidet | Date/Time 8-14-01 1730 | RELINQUISHED BY: | Date/Time |
| COMPANY NAME: | | COMPANY NAME: | |
| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time |
| COMPANY NAME: | | COMPANY NAME: | |

TOTAL NUMBER OF 34

Cooler Temperature: 4°C

Cooler ID: K222

FEDEX NUMBER: NA - Courier pickup

SAIC An Employee-Owned Company
Science Applications International Corporation
151 Layfayette Drive, Oak Ridge, Tennessee 37831(865) 481-4600

# CHAIN OF CUSTODY RECORD

COC NO.: LL4STL - 160
page 1 of 1

PROJECT NAME: Load Line 4 Phase II RI

DELIVERY ORDER NUMBER: ECAS 186

PROJECT MANAGER: Kevin Jago 865-481-4614

Sampler (Signature): Vicki Brumback (Printed Name): Vicki Brumback

REQUESTED PARAMETERS

WATER

| Sample ID | Date Collected | Time Collected | Matrix | VOCs | SVOCs | PCBs | Pesticides | Metals | CN | Explosives | Propellants | Filtered Metals | Hexavalent chromium | No. of Containers | OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL4 1178 V | 8-14-01 | 1100 | water | 3 | 2 vjb | 2 | 2 | 1 | 1 | 2 | 2 | | 1 | ~~16~~ 13 vjb | POTABLE WATER SOURCE |
| | | | | | | | | | | | | | | | ~~TRIP BLANK~~ vjb |

1-160

LABORATORY NAME: Severn Trent Laboratories, Inc.

LABORATORY ADDRESS: 4101 Shuffel Drive NW, North Canton, Ohio 44720, Attn: Debbie Budd

PHONE NO: 330-497-9396

| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time |
|---|---|---|---|
| Vicki Brumback | 8-14-01 1730 | | |
| COMPANY NAME: SAIC | | COMPANY NAME: | |
| RECEIVED BY: | Date/Time | RELINQUISHED BY: | Date/Time |
| [illegible] | 8-14-01 1730 | | |
| COMPANY NAME: | | COMPANY NAME: | |
| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time |
| COMPANY NAME: | | COMPANY NAME: | |

TOTAL NUMBER OF ~~16~~ 13 vjb
Cooler ID: J736
Cooler Temperature: 4°C
FEDEX NUMBER: NA - Courier pickup

VOCs for LL41178 will be delivered tomorrow.

SAIC An Employee-Owned Company
Science Applications International Corporation
151 Layfayette Drive, Oak Ridge, Tennessee 37831(865) 481-4600

# CHAIN OF CUSTODY RECORD

COC NO.: LL4STL - 11
page 1 of 1

PROJECT NAME: Load Line 4 Phase II RI

DELIVERY ORDER NUMBER: ECAS 186

PROJECT MANAGER: Kevin Jago 865-481-4614

Sampler (Signature) Vicki Brumback (Printed Name) Vicki Brumback

REQUESTED PARAMETERS

WATER

| Sample ID | Date Collected | Time Collected | Matrix | VOCs | SVOCs | PCBs | Pesticides | Metals | CN | Explosives | Propellants | Filtered Metals | No. of Containers |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL40952 ✓ | 8-14-01 | 1133 | water | | 2 | 2 | 2 | 1 | 1 | 2 | 2 | | 12 |
| LL40968 ✓ | 8-14-01 | 0945 | water | | | | | 1 | 1 | 2 | | | 4 |

VK 8-14-01

LABORATORY NAME: Severn Trent Laboratories, Inc.

LABORATORY ADDRESS: 4101 Shuffel Drive NW, North Canton, Ohio 44720, Attn: Debbie Budd

PHONE NO: 330-497-9396

OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS

| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time |
|---|---|---|---|
| Vicki Brumback | 8-14-01 1735 | | |
| COMPANY NAME: SAIC | | COMPANY NAME: | |
| RECEIVED BY: Al Hardt | Date/Time 8-14-01 1730 | RELINQUISHED BY: | Date/Time |
| COMPANY NAME: | | COMPANY NAME: | |
| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time |
| COMPANY NAME: | | COMPANY NAME: | |

TOTAL NUMBER OF 16

Cooler Temperature: 4°C

Cooler ID: #081

FEDEX NUMBER: NA Courier pickup

VOCs for these samples will be shipped tomorrow. Other ~~jars~~ jars for LL40968 are in a separate cooler with this shipment.

I-161

SAIC An Employee-Owned Company
Science Applications International Corporation
151 Layfayette Drive, Oak Ridge, Tennessee 37831(865) 481-4600

# CHAIN OF CUSTODY RECORD

COC NO.: LL4STL - 12
page 1 of 1

PROJECT NAME: Load Line 4 Phase II RI

DELIVERY ORDER NUMBER: ECAS 186

PROJECT MANAGER: Kevin Jago 865-481-4614

Sampler (Signature): Vicki Brumback (Printed Name): Vicki Brumback

LABORATORY NAME: Severn Trent Laboratories, Inc.

LABORATORY ADDRESS: 4101 Shuffel Drive NW, North Canton, Ohio 44720, Attn: Debbie Budd

PHONE NO: 330-497-9396

REQUESTED PARAMETERS — WATER

| Sample ID | Date Collected | Time Collected | Matrix | VOCs | SVOCs | PCBs | Pesticides | Metals | CN | Explosives | Propellants | Filtered Metals | No. of Containers | OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL40968 | 8-14-01 | 0945 | water | | 2 | 2 | 2 | | | | 2 | | 8 | |
| LL40964 | 8-14-01 | 1035 | water | | | 2 | | 1 | | 2 | | | 5 | |
| LL40970 | 8-14-01 | 0915 | water | | | | | 3 | | | | | 3 | MS/MSD |

Vicki 8-14-01

| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time | TOTAL NUMBER OF 16 | Cooler Temperature: 4°C |
|---|---|---|---|---|---|
| Vicki Brumback | 8-14-01 1730 | | | Cooler ID: J422 | FEDEX NUMBER: NA Courier pickup |
| COMPANY NAME: SAIC | | COMPANY NAME: | | | |
| RECEIVED BY: Al Hewlett | Date/Time 8-14-01 1730 | RELINQUISHED BY: | Date/Time | VOCs associated w/these samples will be sent tomorrow. | |
| COMPANY NAME: | | COMPANY NAME: | | Other jars for LL40968 are in another cooler in this shipment | |
| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time | Other jars for LL40970 are in another cooler in this shipment. | |
| COMPANY NAME: | | COMPANY NAME: | | | |

SAIC An Employee-Owned Company
Science Applications International Corporation
151 Layfayette Drive, Oak Ridge, Tennessee 37831(865) 481-4600

# CHAIN OF CUSTODY RECORD

COC NO.: LL4STL - 13
page 1 of 1

PROJECT NAME: Load Line 4 Phase II RI

DELIVERY ORDER NUMBER: ECAS 186

PROJECT MANAGER: Kevin Jago 865-481-4614

Sampler (Signature): Vicki Brumback (Printed Name): Vicki Brumback

REQUESTED PARAMETERS

WATER

| Sample ID | Date Collected | Time Collected | Matrix | VOCs | SVOCs | PCBs | Pesticides | Metals | CN | Explosives | Propellants | Filtered Metals | No. of Containers | OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL40970 | 8-14-01 | 0915 | water | | | 6 | | | | 6 | | | 12 | ms/msd |

LABORATORY NAME: Severn Trent Laboratories, Inc.

LABORATORY ADDRESS: 4101 Shuffel Drive NW, North Canton, Ohio 44720, Attn: Debbie Budd

PHONE NO: 330-497-9396

| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time |
|---|---|---|---|
| Vicki Brumback | 8-14-01 1730 | | |
| COMPANY NAME: SAIC | | COMPANY NAME: | |
| RECEIVED BY: | Date/Time | RELINQUISHED BY: | Date/Time |
| COMPANY NAME: | 8-14-01 1730 | COMPANY NAME: | |
| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time |
| COMPANY NAME: | | COMPANY NAME: | |

TOTAL NUMBER OF 12

Cooler Temperature: 4°C

Cooler ID: J921

FEDEX NUMBER: NA - Courier pickup

Other jars for LL40970 and the MS/MSD are in other coolers with this shipment.

SAIC An Employee-Owned Company
Science Applications International Corporation
151 Layfayette Drive, Oak Ridge, Tennessee 37831(865) 481-4600

# CHAIN OF CUSTODY RECORD

COC NO.: LL4STL - 14
page 1 of 3

PROJECT NAME: Load Line 4 Phase II RI

DELIVERY ORDER NUMBER: ECAS 186

PROJECT MANAGER: Kevin Jago 865-481-4614

Sampler (Signature): Vicki Brumback (Printed Name): Vicki Brumback

LABORATORY NAME: Severn Trent Laboratories, Inc.

LABORATORY ADDRESS: 4101 Shuffel Drive NW, North Canton, Ohio 44720, Attn: Debbie Budd

PHONE NO: 330-497-9396

REQUESTED PARAMETERS — SOIL

| Sample ID | Date Collected | Time Collected | Matrix | TAL Metals | Cr+6 | CN | Explosives | Propellants | VOCs | SVOCs | Pesticides | PCBs | As+3 | TOC | TCLP | | | | | | No. of Containers | OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL40951 | 8-14-01 | 1347 | sediment | X | | | | X | X | X | X | X | | | | | | | | | 4 | |
| LL40852 | 8-14-01 | 1605 | soil | X | | | | | | | | X | | | | | | | | | 2 | |
| 41141 | 8-14-01 | 1410 | soil | X | | | X | | | | | X | | | | | | | | | 3 | dup of LL40816 |
| 40846 | 8-14-01 | 1500 | soil | X | | | | | X | X | X | X | | | | | | | | | 3 | |
| L40963 | 8-14-01 | 1431 | sediment | X | | | | | | | | X | | | | | | | | | 2 | |
| L41145 | 8-14-01 | 1347 | sediment | X | | | | | | | | X | | | | | | | | | 2 | RUN MS/MSD dup of LL40951 |
| 40855 | 8-14-01 | 1510 | soil | X | | | | | | | | X | | | | | | | | | 2 | |
| 40858 | 8-14-01 | 1525 | soil | X | | | | | | | | X | | | | | | | | | 2 | |
| 40965 | 8-14-01 | 1421 | sediment | X | | | | | | | | X | | | | | | | | | 2 | |
| 40816 | 8-14-01 | 1410 | soil | X | | | | | | | | X | | | | | | | | | 2 | |
| LL40833 | 8-14-01 | 1600 | soil | X | | | | | | | | X | | | | | | | | | 2 | |
| LL40834 | 8-14-01 | 1545 | soil | X | | X | | | | | | X | | | | | | | | | 2 | |
| LL40813 | 8-14-01 | 1455 | soil | X | | | | | | | | X | | | | | | | | | 2 | 30 |

| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time |
|---|---|---|---|
| Vicki Brumback | 8-15-01 1400 | [illegible] | 8/15/01 1435 |
| COMPANY NAME: SAIC | | COMPANY NAME: STL Canton | |
| RECEIVED BY: [illegible] | Date/Time 8-15-01 1400 | RELINQUISHED BY: | Date/Time |
| COMPANY NAME: SAIC | | COMPANY NAME: | |
| RELINQUISHED BY: [illegible] | Date/Time 8-15-01 1435 | RECEIVED BY: | Date/Time |
| COMPANY NAME: SAIC | | COMPANY NAME: | |

TOTAL NUMBER OF see p 3/3

Cooler ID: G81

Cooler Temperature: 4°C

FEDEX NUMBER: NA - ~~Courier pickup~~ SAIC delivery vjb 8/15/01

SAIC An Employee-Owned Company
Science Applications International Corporation
151 Layfayette Drive, Oak Ridge, Tennessee 37831(865) 481-4600

# CHAIN OF CUSTODY RECORD

COC NO.: LL4STL - 14
page 2 of 3

PROJECT NAME: Load Line 4 Phase II RI

DELIVERY ORDER NUMBER: ECAS 186

PROJECT MANAGER: Kevin Jago 865-481-4614

Sampler (Signature) Vicki Brumback (Printed Name) Vicki Brumback

REQUESTED PARAMETERS

SOIL

| Sample ID | Date Collected | Time Collected | Matrix | TAL Metals | Cr+6 | CN | Explosives | Propellants | VOCs | SVOCs | Pesticides | PCBs | As+3 | TOC | TCLP | No. of Containers |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL40967 | 8-14-01 | 1411 | sediment | X | | | | | X | X | X | X | | X | | 4 |
| LL40969 | 8-14-01 | 1401 | sediment | X | | | | | | | | X | | | | 2 |
| LL40973 | 8-13-01 | 0911 | sediment | | | | X | | | | | X | | | | 1 |
| LL40987 | 8-15-01 | 1135 | soil | | | | X | | | | | | | | | 1 |
| LL40962 | 8-13-01 | 1515 | sediment | | | | X | | | | | | | | | 1 |
| LL40987 | 8-13-01 | 1551 | soil | | | | X | | | | | | | | | 1 |
| LL40816 | 8-14-01 | 1410 | soil | | | | X | | | | | | | | | 1 |

TNT = 1.5 ppm

Gb 8/15/01

11

LABORATORY NAME: Severn Trent Laboratories, Inc.

LABORATORY ADDRESS: 4101 Shuffel Drive NW, North Canton, Ohio 44720, Attn: Debbie Budd

PHONE NO: 330-497-9396

OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS

| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time | TOTAL NUMBER OF see p3/3 | Cooler Temperature: 4°C |
|---|---|---|---|---|---|
| Vicki Brumback | 8-15-01 1400 | Anne Sanders | 8/15/01 1435 | Cooler ID: G81 | FEDEX NUMBER: NA- SAIC delivery |
| COMPANY NAME: SAIC | | COMPANY NAME: STL | | | |
| RECEIVED BY: B. Williams | 8-15-01 1400 | RELINQUISHED BY: | | | |
| COMPANY NAME: SAIC | | COMPANY NAME: | | | |
| RELINQUISHED BY: B. Williams | 8-15-01 1435 | RECEIVED BY: | | | |
| COMPANY NAME: SAIC | | COMPANY NAME: | | | |

1165

SAIC An Employee-Owned Company
Science Applications International Corporation
151 Layfayette Drive, Oak Ridge, Tennessee 37831(865) 481-4600

# CHAIN OF CUSTODY RECORD

COC NO.: LL4STL - 14
page 3 of 3

PROJECT NAME: Load Line 4 Phase II RI

DELIVERY ORDER NUMBER: ECAS 186

PROJECT MANAGER: Kevin Jago 865-481-4614

Sampler (Signature): Vicki Brumbach (Printed Name): Vicki Brumback

REQUESTED PARAMETERS — WATER

| Sample ID | Date Collected | Time Collected | Matrix | VOCs | SVOCs | PCBs | Pesticides | Metals | CN | Explosives | Propellants | Filtered Metals | No. of Containers | OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL40976 ✓ | 8-14-01 | 1730 | water | | 2 | | 2 | | | | | | 4 | |
| LL40968 ✓ | 8-14-01 | 0945 | water | 3 | | | | | | | | | 3 | |
| LL40952 ✓ | 8-14-01 | 1133 | water | 3 | | | | | | | | | 3 | |
| -41180 ✓ | 8-14-01 | 0729 | water | 3 | | | | | | | | | 3 | TRIP BLANK |
| -40976 ✓ | 8-14-01 | 1730 | water | 3 | | | | | | | | | 3 | |
| -41178 ✓ | 8-14-01 | 1100 | water | 3 | | | | | | | | | 3 | POTABLE WATER SOURCE |
| -40994 ✓ | 8-14-01 | 1645 | water | 3 | | | | | | | | | 3 | |

I-166

LABORATORY NAME: Severn Trent Laboratories, Inc.

LABORATORY ADDRESS: 4101 Shuffel Drive NW, North Canton, Ohio 44720, Attn: Debbie Budd

PHONE NO: 330-497-9396

| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time |
|---|---|---|---|
| Vicki Brumback | 8-15-01 1400 | [illegible] | 8/15/01 1435 |
| COMPANY NAME: SAIC | | COMPANY NAME: STL | |
| RECEIVED BY: B.W.H. | Date/Time 8-15-01 1400 | RELINQUISHED BY: | Date/Time |
| COMPANY NAME: SAIC | | COMPANY NAME: | |
| RELINQUISHED BY: B.W.H. | Date/Time 8-15-01 1435 | RECEIVED BY: | Date/Time |
| COMPANY NAME: SAIC | | COMPANY NAME: | |

TOTAL NUMBER OF 63

Cooler Temperature: 4°C

Cooler ID: G81

FEDEX NUMBER: NA- SAIC delivery

Other jars for these samples have been sent in previous shipments of or are in cooler J835.

SAIC An Employee-Owned Company
Science Applications International Corporation
151 Layfayette Drive, Oak Ridge, Tennessee 37831(865) 481-4600

# CHAIN OF CUSTODY RECORD

COC NO.: LL4STL - 15
page 1 of 1

PROJECT NAME: Load Line 4 Phase II RI

DELIVERY ORDER NUMBER: ECAS 186

PROJECT MANAGER: Kevin Jago 865-481-4614

Sampler (Signature): Vicki Brumback (Printed Name): Vicki Brumback

REQUESTED PARAMETERS

WATER

| Sample ID | Date Collected | Time Collected | Matrix | VOCs | SVOCs | PCBs | Pesticides | Metals | CN | Explosives | Propellants | Filtered Metals | No. of Containers |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL40994 | 8-14-01 | 1645 | water | | 2 | 2 | 2 | 1 | 1 | 2 | 2 | | 12 |
| LL40976 | 8-14-01 | 1730 | water | | | 2 | | 1 | | 2 | | | 5 |

I-167

Hg 8/15/01

LABORATORY NAME: Severn Trent Laboratories, Inc.

LABORATORY ADDRESS: 4101 Shuffel Drive NW, North Canton, Ohio 44720, Attn: Debbie Budd

PHONE NO: 330-497-9396

OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS

| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time |
|---|---|---|---|
| Vicki Brumback | 8-15-01 1400 | Anne Sanders | 8/15/01 1435 |
| COMPANY NAME: SAIC | | COMPANY NAME: STL | |
| RECEIVED BY: B. Will | 8-15-01 1400 | RELINQUISHED BY: | Date/Time |
| COMPANY NAME: SAIC | | COMPANY NAME: | |
| RELINQUISHED BY: B. Will | 8-15-01 1435 | RECEIVED BY: | Date/Time |
| COMPANY NAME: SAIC | | COMPANY NAME: | |

TOTAL NUMBER OF 17

Cooler Temperature: 4°C

Cooler ID: J835

FEDEX NUMBER:

VOCs for LL40994 are in cooler G81.
Other jars for LL40976 are in cooler G81.

SAIC An Employee-Owned Company
Science Applications International Corporation
151 Layfayette Drive, Oak Ridge, Tennessee 37831(865) 481-4600

# CHAIN OF CUSTODY RECORD

COC NO.: LL4STL - 16
page 1 of 1

PROJECT NAME: Load Line 4 Phase II RI

DELIVERY ORDER NUMBER: ECAS 186

PROJECT MANAGER: Kevin Jago 865-481-4614

Sampler (Signature): Vicki Brumback (Printed Name): Vicki Brumback

REQUESTED PARAMETERS

WATER

| Sample ID | Date Collected | Time Collected | Matrix | VOCs | SVOCs | PCBs | Pesticides | Metals | CN | Explosives | Propellants | Filtered Metals | No. of Containers |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL40996 | 8-20-01 | 1357 | water | | | 2 | | 1 | | 2 | | | 5 |
| LL40992 | 8-20-01 | 0923 | water | | | 2 | | 1 | | 2 | | | 5 |
| 40960 | 8-20-01 | 1011 | water | | | 2 | | 1 | | 2 | | | 5 |

Vib 8/21/01

LABORATORY NAME: Severn Trent Laboratories, Inc.

LABORATORY ADDRESS: 4101 Shuffel Drive NW, North Canton, Ohio 44720, Attn: Debbie Budd

PHONE NO: 330-497-9396

OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS

| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time |
|---|---|---|---|
| Vicki Brumback | 8-21-01 1700 | | |
| COMPANY NAME: SAIC | | COMPANY NAME: | |
| RECEIVED BY: | Date/Time | RELINQUISHED BY: | Date/Time |
| [signature] | 8-21-01 1700 | | |
| COMPANY NAME: | | COMPANY NAME: | |
| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time |
| COMPANY NAME: | | COMPANY NAME: | |

TOTAL NUMBER OF 15

Cooler Temperature: 4°C

Cooler ID: H19

FEDEX NUMBER: NA - Courier pickup

SAIC An Employee-Owned Company
Science Applications International Corporation
151 Layfayette Drive, Oak Ridge, Tennessee 37831(865) 481-4600

COC NO.: LL4STL - 17
page 1 of to 2 vjb

# CHAIN OF CUSTODY RECORD

PROJECT NAME: Load Line 4 Phase II RI

DELIVERY ORDER NUMBER: ECAS 186

PROJECT MANAGER: Kevin Jago 865-481-4614

Sampler (Signature): Vicki Brumback (Printed Name): Vicki Brumback

REQUESTED PARAMETERS

WATER

| Sample ID | Date Collected | Time Collected | Matrix | VOCs | SVOCs | PCBs | Pesticides | Metals | CN | Explosives | Propellants | Filtered Metals | No. of Containers | OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL40958 | 8-20-01 | 1111 | water | 3 | 2 | 2 | 2 | 1 | | 2 | 2 | 1/b | 12 | |
| LL41181 | 8-20-01 | 0851 | water | 3 | | | | | | | | | 3 | TRIP BLANK |

K/b 8/21/01

LABORATORY NAME: Severn Trent Laboratories, Inc.

LABORATORY ADDRESS: 4101 Shuffel Drive NW, North Canton, Ohio 44720, Attn: Debbie Budd

PHONE NO: 330-497-9396

| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time |
|---|---|---|---|
| Vicki Brumback | 8-21-01 1700 | | |
| COMPANY NAME: SAIC | | COMPANY NAME: | |
| RECEIVED BY: Al Waldt | Date/Time 8-21-01 1700 | RELINQUISHED BY: | Date/Time |
| COMPANY NAME: | | COMPANY NAME: | |
| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time |
| COMPANY NAME: | | COMPANY NAME: | |

TOTAL NUMBER OF Sep 2/2

Cooler Temperature: 4°C

Cooler ID: K173

FEDEX NUMBER: NA - Courier pickup

I-169

SAIC An Employee-Owned Company
Science Applications International Corporation
151 Layfayette Drive, Oak Ridge, Tennessee 37831(865) 481-4600

# CHAIN OF CUSTODY RECORD

COC NO.: LL4STL - 17
page 2 of 2

PROJECT NAME: Load Line 4 Phase II RI

DELIVERY ORDER NUMBER: ECAS 186

PROJECT MANAGER: Kevin Jago 865-481-4614

Sampler (Signature): Vicki Brumback (Printed Name): Vicki Brumback

LABORATORY NAME: Severn Trent Laboratories, Inc.

LABORATORY ADDRESS: 4101 Shuffel Drive NW, North Canton, Ohio 44720, Attn: Debbie Budd

PHONE NO: 330-497-9396

REQUESTED PARAMETERS — SOIL

| Sample ID | Date Collected | Time Collected | Matrix | TAL Metals | Cr+6 | CN | Explosives | Propellants | VOCs | SVOCs | Pesticides | PCBs | As+3 | TOC | TCLP | No. of Containers | OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL40959 ✓ | 8-20-01 | 1021 | sediment | X | | | | | | | | X | | | | 2 | |
| LL40839 ✓ | 8-20-01 | 1136 | soil | X | | | | | | | | X | | | | 2 | |
| LL40842 ✓ | 8-20-01 | 1206 | soil | X | | | | | | | | X | | | | 2 | |
| LL40957 ✓ | 8-20-01 | 1131 | sediment | X | | | | | X | X | X | Y | | X | | 4 | |
| LL40995 ✓ | 8-20-01 | 1359 | sediment | X | | | | | | | | X | | | | 2 | |
| LL40993 ✓ | 8-20-01 | 1441 | sediment | X | | | | | X | X | X | X | | | | 3 | |
| LL40975 ✓ | 8-20-01 | 1327 | sediment | X | X | | | | X | X | X | X | | X | | 4 | |
| LL40991 ✓ | 8-20-01 | 0943 | sediment | X | | | | | | | | X | | | | 2 | |

Y b 8/21/01

I-170

| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time | TOTAL NUMBER OF 36 | Cooler Temperature: 4°C |
|---|---|---|---|---|---|
| Vicki Brumback | 8-21-01 1700 | | | Cooler ID: K173 | FEDEX NUMBER: NA - Courier pickup |
| COMPANY NAME: SAIC | | COMPANY NAME: | | | |
| RECEIVED BY: A. Hazlett | Date/Time 8-21-01 1700 | RELINQUISHED BY: | Date/Time | | |
| COMPANY NAME: | | COMPANY NAME: | | | |
| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time | | |
| COMPANY NAME: | | COMPANY NAME: | | | |

SAIC An Employee-Owned Company
Science Applications International Corporation
151 Layfayette Drive, Oak Ridge, Tennessee 37831(865) 481-4600

# CHAIN OF CUSTODY RECORD

COC NO.: LL4STL - 18
page 1 of 1

PROJECT NAME: Load Line 4 Phase II RI

DELIVERY ORDER NUMBER: ECAS 186

PROJECT MANAGER: Kevin Jago 865-481-4614

Sampler (Signature): Vicki Brumback (Printed Name): Vicki Brumback

REQUESTED PARAMETERS — SOIL

| Sample ID | Date Collected | Time Collected | Matrix | TAL Metals | Cr+6 | CN | Explosives | Propellants | VOCs | SVOCs | Pesticides | PCBs | As+3 | TOC | TCLP SVOCs/Herb/Pest/Metals | TCLP VOCs | AS+3 | No. of Containers |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL40845 | 8-20-01 | 1530 | FLOORSWEEP | X | X | X | X | | X | X | X | X | | | X | X | X | 7 |
| LL40835 | 8-20-01 | 1600 | FLOORSWEEP | X | X | X | X | | X | X | X | X | | | X | X | X | 7 |
| 40771 | 8-20-01 | 1630 | FLOORSWEEP | X | X | X | X | | X | X | X | X | | | X | X | X | 7 |

NOTE: Add CN analysis to Label on Metals/Cr+6 jars

vjb 8-21-01

LABORATORY NAME: Severn Trent Laboratories, Inc.

LABORATORY ADDRESS: 4101 Shuffel Drive NW, North Canton, Ohio 44720, Attn: Debbie Budd

PHONE NO: 330-497-9396

OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS

| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time |
|---|---|---|---|
| Vicki Brumback | 8-21-01 1700 | | |
| COMPANY NAME: SAIC | | COMPANY NAME: | |
| RECEIVED BY: [signature] | Date/Time 8-21-01 1700 | RELINQUISHED BY: | Date/Time |
| COMPANY NAME: | | COMPANY NAME: | |
| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time |
| COMPANY NAME: | | COMPANY NAME: | |

TOTAL NUMBER OF 21

Cooler Temperature: 4°C

Cooler ID: A36

FEDEX NUMBER: NA - Courier pickup

I-171

SAIC An Employee-Owned Company
Science Applications International Corporation
151 Layfayette Drive, Oak Ridge, Tennessee 37831(865) 481-4600

# CHAIN OF CUSTODY RECORD

COC NO.: LL4STL - 19
page 1 of 1

PROJECT NAME: Load Line 4 Phase II RI

DELIVERY ORDER NUMBER: ECAS 186

PROJECT MANAGER: Kevin Jago 865-481-4614

Sampler (Signature): Vicki Brumback (Printed Name): Vicki Brumback

LABORATORY NAME: Severn Trent Laboratories, Inc.

LABORATORY ADDRESS: 4101 Shuffel Drive NW, North Canton, Ohio 44720, Attn: Debbie Budd

PHONE NO: 330-497-9396

REQUESTED PARAMETERS — SOIL

| Sample ID | Date Collected | Time Collected | Matrix | TAL Metals | Cr+6 | CN | Explosives | Propellants | VOCs | SVOCs | Pesticides | PCBs | As+3 | TOC | TCLP | No. of Containers | OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL40869 V | 8-21-01 | 0850 | soil | X | | | | | | | | | | | | 1 | |
| LL40866 V | 8-21-01 | 0810 | soil | X | | | | | | | | | | | | 1 | |
| L40827 V | 8-21-01 | 1030 | soil | X | | X | | | | | | X | | | | 2 | |
| L40819 V | 8-21-01 | 1035 | soil | X | | X | | | X | X | X | X | | | | 3 | |
| L40822 V | 8-21-01 | 1000 | soil | X | | X | | | | | | X | | | | 2 | RUN MS/MSD |
| L40695 V | 8-21-01 | 1050 | soil | X | | X | | | X | X | X | X | | | | 3 | |
| L40825 V | 8-21-01 | 0915 | soil | X | | | | | | | | X | | | | 2 | |
| L40826 V | 8-21-01 | 0930 | soil | X | | | | | | | | X | | | | 2 | |
| L41148 V | 8-21-01 | 1010 | soil | X | | | | | | | | X | | | | 2 | dup of LL40698 |
| LL40698 V | 8-21-01 | 1010 | soil | X | | | | | | | | X | | | | 2 | |

VJB 8-21-01

| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time | TOTAL NUMBER OF | Cooler Temperature: |
|---|---|---|---|---|---|
| Vicki Brumback | 8-21-01 1700 | | | Cooler ID: K51 | FEDEX NUMBER: NA - Courier pickup |
| COMPANY NAME: SAIC | | COMPANY NAME: | | | |
| RECEIVED BY: [illegible] | Date/Time 8-21-01 1700 | RELINQUISHED BY: | Date/Time | | |
| COMPANY NAME: | | COMPANY NAME: | | | |
| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time | | |
| COMPANY NAME: | | COMPANY NAME: | | | |

SAIC An Employee-Owned Company
Science Applications International Corporation
151 Layfayette Drive, Oak Ridge, Tennessee 37831(865) 481-4600

# CHAIN OF CUSTODY RECORD

COC NO.: LL4STL - 20
page 1 of ~~32~~ 22 vjb

PROJECT NAME: Load Line 4 Phase II RI

DELIVERY ORDER NUMBER: ECAS 186

PROJECT MANAGER: Kevin Jago 865-481-4614

Sampler (Signature): Vicki Brumback (Printed Name): Vicki Brumback

LABORATORY NAME: Severn Trent Laboratories, Inc.

LABORATORY ADDRESS: 4101 Shuffel Drive NW, North Canton, Ohio 44720, Attn: Debbie Budd

PHONE NO: 330-497-9396

REQUESTED PARAMETERS — SOIL

| Sample ID | Date Collected | Time Collected | Matrix | TAL Metals | Cr+6 | CN | Explosives | Propellants | VOCs | SVOCs | Pesticides | PCBs | As+3 | TOC | TCLP | No. of Containers | OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL40807 | 8-21-01 | 1600 | soil | X | | X | | | X | X | X | X | | | | 3 | |
| LL40809 | 8-21-01 | 1410 | soil | X | | | | | X | X | X | X | | | | 3 | |
| LL40804 | 8-21-01 | 1446 | soil | X | | | | | | | | X | | | | 2 | |
| LL40810 | 8-21-01 | 1442 | soil | X | | | | | | | | X | | | | 2 | |
| LL40838 | 8-21-01 | 1341 | soil | X | | | | | | | | X | | | | 2 | |
| LL40683 | 8-21-01 | 1630 | soil | X | | X | | | X | X | X | X | | | | 3 | |
| LL40686 | 8-21-01 | 1615 | soil | X | | X | | | X | X | X | X | | | | 3 | |
| LL40680 | 8-21-01 | 1546 | soil | X | | | | | X | X | | X | | | | 3 | |
| LL40692 | 8-21-01 | 1345 | soil | X | | | | | | | | | | | | 1 | |
| LL40869 | 8-21-01 | 0850 | soil | | | | X | | | | | | | | | 1 | |
| LL40839 | 8-20-01 | 1136 | soil | | | | X | | | | | | | | | 1 | TNT = 1.4 ppm |
| LL40969 | 8-14-01 | 1401 | sediment | | | | X | | | | | | | | | 1 | COLLECTED 8/14 ! |
| LL40695 | 8-21-01 | 1050 | soil | | | | X | | | | | | | | | 1 | |

I-173

| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time |
|---|---|---|---|
| Vicki Brumback | 8-22-01 | | |
| COMPANY NAME: SAIC | 1635 | COMPANY NAME: | |
| RECEIVED BY: Al Waidlet | Date/Time 8-22-01 | RELINQUISHED BY: | Date/Time |
| COMPANY NAME: | 1635 | COMPANY NAME: | |
| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time |
| COMPANY NAME: | | COMPANY NAME: | |

TOTAL NUMBER OF See p ~~3~~ 2/3 Cooler Temperature: 4°C

Cooler ID: G81 vjb 2/2 FEDEX NUMBER: NA- Courier pickup

NOTE THAT 4 SAMPLES FOR EXPLOSIVES ANALYSIS WERE COLLECTED ON 8/~~22~~ 14. PLEASE EXPEDITE.
vjb

SAIC An Employee-Owned Company
Science Applications International Corporation
151 Layfayette Drive, Oak Ridge, Tennessee 37831(865) 481-4600

# CHAIN OF CUSTODY RECORD

COC NO.: LL4STL - 20
page 2 of 32 vjb

PROJECT NAME: Load Line 4 Phase II RI

DELIVERY ORDER NUMBER: ECAS 186

PROJECT MANAGER: Kevin Jago 865-481-4614

Sampler (Signature): Vicki Brumback (Printed Name): Vicki Brumback

REQUESTED PARAMETERS — SOIL

| Sample ID | Date Collected | Time Collected | Matrix | TAL Metals | Cr+6 | CN | Explosives | Propellants | VOCs | SVOCs | Pesticides | PCBs | As+3 | TOC | TCLP | No. of Containers | OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL40967 | 8-14-01 | 1411 | sediment | | | | X | | | | | | | | | 1 | NOTE: COLLECTED 8/14! |
| ~~LL40963~~ | ~~8-14-0~~ | vjb | | | | | | | | | | | | | | | → TNT = 2.8 ppm |
| 40963 | 8-14-01 | 1431 | sediment | | | | X | | | | | | | | | 1 | NOTE: COLLECTED 8/14! |
| 40965 | 8-14-01 | 1421 | sediment | | | | X | | | | | | | | | 1 | " " " |
| 40957 | 8-20-01 | 1131 | sediment | | | | X | | | | | | | | | 1 | |
| 40951 | 8-14-01 | 1347 | sediment | | | | X | | | | | | | | | 1 | TNT = 24.6 ppm. |
| 40759 | 8-22-01 | 1055 | soil | X | | | | | | | | X | | | | 2 | |
| 40753 | 8-22-01 | 0950 | soil | X | | | | | X | X | | X | | | | 3 | |
| 40768 | 8-22-01 | 0830 | soil | X | | | | | X | | | X | | | | 3 | |
| LL40765 | 8-22-01 | 0805 | soil | X | | | | | | | | X | | | | 2 | |
| LL40756 | 8-22-01 | 0905 | soil | X | | | | | | | | X | | | | 2 | |
| LL41146 | 8-22-01 | 0905 | soil | X | | | | | | | | X | | | | 2 | RUN MS/MSD dup of LL40756 vjb 8-22-01 |

LABORATORY NAME: Severn Trent Laboratories, Inc.

LABORATORY ADDRESS: 4101 Shuffel Drive NW, North Canton, Ohio 44720, Attn: Debbie Budd

PHONE NO: 330-497-9396

| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time |
|---|---|---|---|
| Vicki Brumback | 8-22-01 | | |
| COMPANY NAME: SAIC | 1635 | COMPANY NAME: | |
| RECEIVED BY: Ed Waite | Date/Time 8-22-01 | RELINQUISHED BY: | Date/Time |
| COMPANY NAME: | 1635 | COMPANY NAME: | |
| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time |
| COMPANY NAME: | | COMPANY NAME: | |

TOTAL NUMBER OF ~~CONTAINERS~~ → 45

Cooler Temperature: 4°C

Cooler ID: G81

FEDEX NUMBER: NA · Conner pickup

NOTE THAT 4 SAMPLES FOR EXPLOSIVES ANALYSIS WERE COLLECTED ON 8/14. PLEASE EXPEDITE.

I-174

SAIC An Employee-Owned Company
Science Applications International Corporation
151 Layfayette Drive, Oak Ridge, Tennessee 37831(865) 481-4600

# CHAIN OF CUSTODY RECORD

COC NO.: LL4STL - 21
page 1 of 1

PROJECT NAME: Load Line 4 Phase II RI

DELIVERY ORDER NUMBER: ECAS 186

PROJECT MANAGER: Kevin Jago 865-481-4614

Sampler (Signature): Vicki Brumback (Printed Name): Vicki Brumback

LABORATORY NAME: Severn Trent Laboratories, Inc.

LABORATORY ADDRESS: 4101 Shuffel Drive NW, North Canton, Ohio 44720, Attn: Debbie Budd

PHONE NO: 330-497-9396

REQUESTED PARAMETERS — WATER

| Sample ID | Date Collected | Time Collected | Matrix | VOCs | SVOCs | PCBs | Pesticides | Metals | CN | Explosives | Propellants | Filtered Metals | No. of Containers | OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL4 1175 | 8-22-01 | 1000 | water | 3 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | | 15 | EQUIPMENT RINSEATE |
| LL4 1176 | 8-22-01 | 0930 | water | 3 | | | | | | | | | 3 | TRIP BLANK |

I-175

Vicki Brumback 8-22-01

| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time | TOTAL NUMBER OF 18 | Cooler Temperature: 4°C |
|---|---|---|---|---|---|
| Vicki Brumback | 8-22-01 | | | | |
| COMPANY NAME: SAIC | 1635 | COMPANY NAME: | | Cooler ID: #081 | FEDEX NUMBER: NA - Courier pickup |
| RECEIVED BY: Al Waidet | Date/Time 8-22-01 | RELINQUISHED BY: | Date/Time | | |
| COMPANY NAME: | 1635 | COMPANY NAME: | | | |
| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time | | |
| COMPANY NAME: | | COMPANY NAME: | | | |

SAIC An Employee-Owned Company
Science Applications International Corporation
151 Layfayette Drive, Oak Ridge, Tennessee 37831(865) 481-4600

# CHAIN OF CUSTODY RECORD

COC NO.: LL4STL - ~~20~~ 22
page ~~3~~ 1 of ~~3~~ 1

PROJECT NAME: Load Line 4 Phase II RI

DELIVERY ORDER NUMBER: ECAS 186

PROJECT MANAGER: Kevin Jago 865-481-4614

Sampler (Signature): Vicki Brumback (Printed Name): Vicki Brumback

REQUESTED PARAMETERS

SOIL

| Sample ID | Date Collected | Time Collected | Matrix | TAL Metals | Cr+6 | CN | Explosives | Propellants | VOCs | SVOCs | Pesticides | PCBs | As+3 | TOC | TCLP | No. of Containers |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL40701 | 8-22-01 | 0750 | soil | X | | | | | X | X | | X | | | | 3 |
| LL40714 | 8-22-01 | 1040 | soil | X | | | | | X | X | | X | | | | 3 |
| LL40720 | 8-22-01 | 1128 | soil | X | | | | | | | | X | | | | 2 |
| LL40710 | 8-22-01 | 0905 | soil | X | | | | | | | | X | | | | 2 |
| LL40713 | 8-22-01 | 0950 | soil | X | | X | | | | | | X | | | | 2 |
| LL40704 | 8-22-01 | 0830 | soil | X | | X | | | X | X | X | X | | | | 3 |
| LL41138 | 8-22-01 | 0830 | soil | X | | X | X | | X | X | X | X | | | | 4 |
| LL40707 | 8-22-01 | 0845 | soil | X | | | | | | | | X | | | | 2 |
| LL40717 | 8-22-01 | 1120 | soil | X | | | | | | | | X | | | | 2 |

dup of LL40714

vjb 8-22-01

L-176

LABORATORY NAME: Severn Trent Laboratories, Inc.

LABORATORY ADDRESS: 4101 Shuffel Drive NW, North Canton, Ohio 44720, Attn: Debbie Budd

PHONE NO: 330-497-9396

OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS

| | Date/Time | | Date/Time | | |
|---|---|---|---|---|---|
| RELINQUISHED BY: Vicki Brumback | 8-22-01 1635 | RECEIVED BY: | | TOTAL NUMBER OF 23 | Cooler Temperature: 4°C |
| COMPANY NAME: SAIC | | COMPANY NAME: | | Cooler ID: G77 ~~G84~~ vjb | FEDEX NUMBER: NA - Courier pickup |
| RECEIVED BY: Al Needet | 8-22-01 1635 | RELINQUISHED BY: | | | |
| COMPANY NAME: | | COMPANY NAME: | | | |
| RELINQUISHED BY: | | RECEIVED BY: | | | |
| COMPANY NAME: | | COMPANY NAME: | | | |

SAIC An Employee-Owned Company
Science Applications International Corporation
151 Layfayette Drive, Oak Ridge, Tennessee 37831(865) 481-4600

# CHAIN OF CUSTODY RECORD

COC NO.: LL4STL - 23
page 1 of 3

PROJECT NAME: Load Line 4 Phase II RI

DELIVERY ORDER NUMBER: ECAS 186

PROJECT MANAGER: Kevin Jago 865-481-4614

Sampler (Signature): Vicki Brumback (Printed Name): Vicki Brumback

REQUESTED PARAMETERS

SOIL

| Sample ID | Date Collected | Time Collected | Matrix | TAL Metals | Cr+6 | CN | Explosives | Propellants | VOCs | SVOCs | Pesticides | PCBs | As+3 | TOC | TCLP | No. of Containers | OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL40701 | 8-22-01 | 0750 | soil | | | | X | | | | | | | | | 1 | TNT = 4.1 ppm |
| LL40756 | 8-22-01 | 0905 | soil | | | | X | | | | | | | | | 1 | |
| 40807 | 8-21-01 | 1600 | soil | | | | X | | | | | | | | | 1 | TNT = 8.9 ppm |
| 40810 | 8-21-01 | 1442 | soil | | | | X | | | | | | | | | 1 | - |
| 40683 | 8-21-01 | 1630 | soil | | | | X | | | | | | | | | 1 | TNT = 1.5 ppm |
| 40689 | 8-21-01 | 1410 | soil | | | | X | | | | | | | | | 1 | TNT = 11 ppm |
| 40768 | 8-22-01 | 0830 | soil | | | | X | | | | | | | | | 1 | TNT = 7.8 ppm |
| 40680 | 8-21-01 | 1540 | soil | | | | X | | | | | | | | | 1 | TNT = 1.8 ppm |
| 40714 | 8-22-01 | 1040 | soil | | | | X | | | | | | | | | 1 | TNT = 3 ppm |
| LL40707 | 8-22-01 | 0845 | soil | | | | X | | | | | | | | | 1 | TNT = 2.1 ppm |
| LL40759 | 8-22-01 | 1055 | soil | | | | X | | | | | | | | | 1 | TNT = 7 ppm |
| LL40686 | 8-21-01 | 1610 | soil | | | | X | | | | | | | | | 1 | TNT = 2.3 ppm |
| LL40717 | 8-22-01 | 1120 | soil | | | | X | | | | | | | | | 1 | TNT = 1.5 ppm (13) |

LABORATORY NAME: Severn Trent Laboratories, Inc.

LABORATORY ADDRESS: 4101 Shuffel Drive NW, North Canton, Ohio 44720, Attn: Debbie Budd

PHONE NO: 330-497-9396

| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time |
|---|---|---|---|
| Vicki Brumback | 8-23-01 1545 | | |
| COMPANY NAME: SAIC | | COMPANY NAME: | |
| RECEIVED BY: Al Waidet | Date/Time 8-23-01 1545 | RELINQUISHED BY: | Date/Time |
| COMPANY NAME: | | COMPANY NAME: | |
| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time |
| COMPANY NAME: | | COMPANY NAME: | |

TOTAL NUMBER OF Seq p 3/3

Cooler Temperature: 4°C

Cooler ID: K173

FEDEX NUMBER: NA Courier pickup

SAIC An Employee-Owned Company
Science Applications International Corporation
151 Layfayette Drive, Oak Ridge, Tennessee 37831(865) 481-4600

# CHAIN OF CUSTODY RECORD

COC NO.: LL4STL - 23
page 2 of 3

PROJECT NAME: Load Line 4 Phase II RI

DELIVERY ORDER NUMBER: ECAS 186

PROJECT MANAGER: Kevin Jago 865-481-4614

Sampler (Signature): Vicki Brumbach (Printed Name): Vicki Brumbach

REQUESTED PARAMETERS — SOIL

| Sample ID | Date Collected | Time Collected | Matrix | TAL Metals | Cr+6 | CN | Explosives | Propellants | VOCs | SVOCs | Pesticides | PCBs | As+3 | TOC | TCLP | No. of Containers | OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL40762 | 8-22-01 | 1545 | soil | X | | X | | | X | X | X | X | | | | 3 | |
| LL40775 | 8-22-01 | 1440 | soil | X | | | | | | | | X | | | | 2 | |
| LL40778 | 8-22-01 | 1335 | soil | X | | | | | | | | X | | | | 2 | |
| LL40772 | 8-22-01 | 1505 | soil | X | | | | | | | | X | | | | 2 | |
| LL40781 | 8-22-01 | 1355 | soil | X | | | | | | | | X | | | | 2 | |
| LL40704 | 8-22-01 | 0830 | soil | | | | X | | | | | | | | | 1 | |
| LL40744 | 8-23-01 | 0949 | soil | X | | | | | X | X | | X | | | | 3 | |
| LL41139 | 8-23-01 | 0949 | soil | X | | | X | | X | X | | X | | | | 4 | dup of LL40744 |
| LL40680 | 8-23-01 | 0948 | soil | | | | | X | | | | | | | | 1 | |
| LL40681 | 8-23-01 | 0948 | soil | X | | | | | | | | | | | | 1 | |
| LL40741 | 8-23-01 | 0850 | soil | X | | | | | | | | X | | | | 2 | |
| LL40747 | 8-23-01 | 1055 | soil | X | | | | | | | | X | | | | 2 | |
| LL40907 | 8-23-01 | 1001 | soil | X | | | | | | | | | | | | 1 | |

I-178

LABORATORY NAME: Severn Trent Laboratories, Inc.

LABORATORY ADDRESS: 4101 Shuffel Drive NW, North Canton, Ohio 44720, Attn: Debbie Budd

PHONE NO: 330-497-9396

| RELINQUISHED BY | Date/Time | RECEIVED BY | Date/Time |
|---|---|---|---|
| Vicki Brumbal | 8-23-01 1545 | | |
| COMPANY NAME: SAIC | | COMPANY NAME: | |
| RECEIVED BY: Al Waidet | Date/Time 8-23-01 1545 | RELINQUISHED BY: | Date/Time |
| COMPANY NAME: | | COMPANY NAME: | |
| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time |
| COMPANY NAME: | | COMPANY NAME: | |

TOTAL NUMBER OF Sep 3/3

Cooler Temperature: 4°C

Cooler ID: K173

FEDEX NUMBER: NA Courier pickup

SAIC An Employee-Owned Company
Science Applications International Corporation
151 Layfayette Drive, Oak Ridge, Tennessee 37831(865) 481-4600

# CHAIN OF CUSTODY RECORD

COC NO.: LL4STL - 23
page 3 of 3

PROJECT NAME: Load Line 4 Phase II RI

DELIVERY ORDER NUMBER: ECAS 186

PROJECT MANAGER: Kevin Jago 865-481-4614

Sampler (Signature): Vicki Brumback (Printed Name): Vicki Brumback

REQUESTED PARAMETERS

SOIL

| Sample ID | Date Collected | Time Collected | Matrix | TAL Metals | Cr+6 | CN | Explosives | Propellants | VOCs | SVOCs | Pesticides | PCBs | As+3 | TOC | TCLP | | | | | | No. of Containers | OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL40918 | 8-23-01 | 0941 | soil | X | | | | | | | | | | | | | | | | | 1 | |
| LL40916 | 8-23-01 | 0901 | soil | X | | | | | | | | | | | | | | | | | 1 | |
| LL40912 | 8-23-01 | 0818 | soil | X | | | | | | | | X | | | | | | | | | 2 | RUN MS/MSD |
| LL40687 | 8-23-01 | 0910 | soil | X | | | | | | | | X | | | | | | | | | 2 | |
| LL41151 | 8-23-01 | 0910 | soil | X | | | | | | | | | | | | | | | | | 1 | dup of LL40687 |
| LL40684 | 8-23-01 | 0925 | soil | X | | | | | | | | | | | | | | | | | 1 | |
| LL40788 | 8-23-01 | 1125 | soil | X | | | | | | | | X | | | | | | | | | 2 | |
| LL41144 | 8-23-01 | 1125 | soil | X | | | | | | | | X | | | | | | | | | 2 | dupof LL40788 |
| LL40769 | 8-23-01 | 1050 | soil | X | | | | | | | | | | | | | | | | | 1 | |
| LL40911 | 8-23-01 | 0751 | soil | X | | | | | | | | | | | | | | | | | 1 | |
| LL40905 | 8-23-01 | 1111 | soil | X | | | | | | | | | | | | | | | | | 1 | |
| LL40914 | 8-23-01 | 1051 | soil | X | | | | | | | | X | | | | | | | | | 2 | (11) |

I-179

LABORATORY NAME: Severn Trent Laboratories, Inc.

LABORATORY ADDRESS: 4101 Shuffel Drive NW, North Canton, Ohio 44720, Attn: Debbie Budd

PHONE NO: 330-497-9396

| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time |
|---|---|---|---|
| Vicki Brumback | 8-23-01 | | |
| COMPANY NAME: SAIC | 1545 | COMPANY NAME: | |
| RECEIVED BY: Al Waidet | Date/Time 8-23-01 | RELINQUISHED BY: | Date/Time |
| COMPANY NAME: | 1545 | COMPANY NAME: | |
| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time |
| COMPANY NAME: | | COMPANY NAME: | |

TOTAL NUMBER OF 56

Cooler Temperature: 4°C

Cooler ID: K173

FEDEX NUMBER: NA Courier pickup

56

SAIC An Employee-Owned Company
Science Applications International Corporation
151 Layfayette Drive, Oak Ridge, Tennessee 37831(865) 481-4600

# CHAIN OF CUSTODY RECORD

COC NO.: LL4STL - 24
page 1 of ~~23~~ vjb

PROJECT NAME: Load Line 4 Phase II RI

DELIVERY ORDER NUMBER: ECAS 186

PROJECT MANAGER: Kevin Jago 865-481-4614

Sampler (Signature): Vicki Brumback (Printed Name): Vicki Brumback

REQUESTED PARAMETERS

SOIL

| Sample ID | Date Collected | Time Collected | Matrix | TAL Metals | Cr+6 | CN | Explosives | Propellants | VOCs | SVOCs | Pesticides | PCBs | As+3 | TOC | TCLP | No. of Containers | OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL41149 | 8-23-01 | 1339 | soil | X | | | | | | | | | | | | 1 | dup of LL40902 |
| LL40906 | 8-23-01 | 1521 | soil | X | | | | | | | | | | | | 1 | |
| LL40807 | 8-23-01 | 1415 | soil | | | | | X | | | | | | | | 1 | |
| L40808 | 8-23-01 | 1415 | soil | X | | | | | | | | | | | | 1 | |
| L40702 | 8-23-01 | 1515 | soil | X | | | | | | | | | | | | 1 | |
| L40765 | 8-22-01 | 0805 | soil | | | | X | | | | | | | | | 1 | |
| L40836 | 8-22-01 | 1450 | soil | X | | | | | X | X | X | X | | | | 3 | TNT = 1 ppm |
| L40723 | 8-22-01 | 1549 | soil | X | | | | | | | | X | | | | 2 | |
| L40903 | 8-23-01 | 1414 | soil | X | | | | | | | | | | | | 1 | |
| L40902 | 8-23-01 | 1339 | soil | X | | | X | | | | | | | | | 2 | |
| LL40917 | 8-23-01 | 1441 | soil | X | | | | | | | | | | | | 1 | |
| LL40729 | 8-23-01 | 1410 | soil | X | | | | | | | | X | | | | 2 | |
| LL40732 | 8-23-01 | 1535 | soil | X | | | | | | | | X | | | | 2 | |

LABORATORY NAME: Severn Trent Laboratories, Inc.

LABORATORY ADDRESS: 4101 Shuffel Drive NW, North Canton, Ohio 44720, Attn: Debbie Budd

PHONE NO: 330-497-9396

| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time |
|---|---|---|---|
| Vicki Brumback | 8-24-01 1545 | | |
| COMPANY NAME: SAIC | | COMPANY NAME: | |
| RECEIVED BY: Al Waldrop | Date/Time 8-24-01 1545 | RELINQUISHED BY: | Date/Time |
| COMPANY NAME: | | COMPANY NAME: | |
| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time |
| COMPANY NAME: | | COMPANY NAME: | |

TOTAL NUMBER OF Sep 2/2

Cooler ID: K223

Cooler Temperature: 4°C

FEDEX NUMBER: NA- Courier pickup

I-180

SAIC An Employee-Owned Company
Science Applications International Corporation
151 Layfayette Drive, Oak Ridge, Tennessee 37831(865) 481-4600

# CHAIN OF CUSTODY RECORD

COC NO.: LL4STL - 24
page 2 of ~~2~~ 3 vjb

PROJECT NAME: Load Line 4 Phase II RI

DELIVERY ORDER NUMBER: ECAS 186

PROJECT MANAGER: Kevin Jago 865-481-4614

Sampler (Signature): Vicki Brumback (Printed Name): Vicki Brumback

REQUESTED PARAMETERS

SOIL

| Sample ID | Date Collected | Time Collected | Matrix | TAL Metals | Cr+6 | CN | Explosives | Propellants | VOCs | SVOCs | Pesticides | PCBs | As+3 | TOC | TCLP | | | | | No. of Containers | OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL40738 ✓ | 8-22-01 | 1640 | soil | X | | | X | | | | | X | | | | | | | | 3 | TNT = 10.3 ppm |
| LL40909 ✓ | 8-23-01 | 1611 | soil | X | | | | | | | | | | | | | | | | 1 | |
| LL40909 ✓ | 8-24-01 | 0811 | soil | X | | X | | | X | X | X | X | | | | | | | | 3 | |
| L40908 ✓ | 8-24-01 | 0911 | soil | X | | | | | | | | | | | | | | | | 1 | |
| L40915 ✓ | 8-24-01 | 0951 | soil | X | | | | | | | | | | | | | | | | 1 | |
| L40726 ✓ | 8-24-01 | 0832 | soil | X | | | | | | | | X | | | | | | | | 2 | |
| L40878 ✓ | 8-24-01 | 1045 | soil | X | X | | | | | | | X | | | | | | | | 2 | |
| L40735 ✓ | 8-24-01 | 0935 | soil | X | | | | | | | | X | | | | | | | | 2 | |
| L41142 ✓ | 8-24-01 | 1045 | soil | X | X | | | | | | | X | | | | | | | | 2 | dup of LL40878 |
| L40839 ✓ | 8-24-01 | 0845 | soil | | | | | X | | | | | | | | | | | | 1 | |
| LL40762 ✓ | 8-22-01 | 1545 | soil | | | | X | | | | | | | | | | | | | 1 | TNT = 9.5 ppm |
| LL40741 ✓ | 8-23-01 | 0850 | soil | | | | X | | | | | | | | | | | | | 1 | |
| LL40913 ✓ | 8-24-01 | 1411 | soil | X | | | | | | | | X | | | | | | | | 2 | (22) |

L-181

LABORATORY NAME: Severn Trent Laboratories, Inc.

LABORATORY ADDRESS: 4101 Shuffel Drive NW, North Canton, Ohio 44720, Attn: Debbie Budd

PHONE NO: 330-497-9396

| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time |
|---|---|---|---|
| Vicki Brumbal | 8-24-01 | | |
| COMPANY NAME: SAIC | 1545 | COMPANY NAME: | |
| RECEIVED BY: Al Haidet | Date/Time 8-24-01 | RELINQUISHED BY: | Date/Time |
| COMPANY NAME: | 1545 | COMPANY NAME: | |
| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time |
| COMPANY NAME: | | COMPANY NAME: | |

TOTAL NUMBER OF

Cooler ID: K223

Cooler Temperature: 4°C

FEDEX NUMBER: NA Courier pickup

SAIC An Employee-Owned Company
Science Applications International Corporation
151 Layfayette Drive, Oak Ridge, Tennessee 37831(865) 481-4600

# CHAIN OF CUSTODY RECORD

COC NO.: LL4STL - 24
page 3 of 3

PROJECT NAME: Load Line 4 Phase II RI

DELIVERY ORDER NUMBER: ECAS 186

PROJECT MANAGER: Kevin Jago 865-481-4614

Sampler (Signature) Vicki Brumbach (Printed Name) Vicki Brumbach

REQUESTED PARAMETERS

SOIL

| Sample ID | Date Collected | Time Collected | Matrix | TAL Metals | Cr+6 | CN | Explosives | Propellants | VOCs | SVOCs | Pesticides | PCBs | As+3 | TOC | TCLP | No. of Containers |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL40910 | 8-24-01 | 1313 | soil | X | | | | | X | X | X | X | | | | 3 |
| LL41150 | 8-24-01 | 1411 | soil | X | | | | | | | | | | | | 1 |

dup of LL40913

45 8-24-01

LABORATORY NAME: Severn Trent Laboratories, Inc.

LABORATORY ADDRESS: 4101 Shuffel Drive NW, North Canton, Ohio 44720, Attn: Debbie Budd

PHONE NO: 330-497-9396

OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS

| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time |
|---|---|---|---|
| Vicki Brumbach | 8-24-01 1545 | | |
| COMPANY NAME: SAIC | | COMPANY NAME: | |
| RECEIVED BY: Al Waidet | Date/Time 8-24-01 1545 | RELINQUISHED BY: | Date/Time |
| COMPANY NAME: | | COMPANY NAME: | |
| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time |
| COMPANY NAME: | | COMPANY NAME: | |

TOTAL NUMBER OF 45

Cooler Temperature: 4°C

Cooler ID: K223

FEDEX NUMBER: NA Courier pickup

SAIC An Employee-Owned Company
Science Applications International Corporation
151 Layfayette Drive, Oak Ridge, Tennessee 37831(865) 481-4600

# CHAIN OF CUSTODY RECORD

COC NO.: LL4STL - 25
page 1 of 2

PROJECT NAME: Load Line 4 Phase II RI

DELIVERY ORDER NUMBER: ECAS 186

PROJECT MANAGER: Kevin Jago 865-481-4614

Sampler (Signature) Vicki Brumback (Printed Name) Vicki Brumback

LABORATORY NAME: Severn Trent Laboratories, Inc.

LABORATORY ADDRESS: 4101 Shuffel Drive NW, North Canton, Ohio 44720, Attn: Debbie Budd

PHONE NO: 330-497-9396

REQUESTED PARAMETERS — SOIL

| Sample ID | Date Collected | Time Collected | Matrix | TAL Metals | Cr+6 | CN | Explosives | Propellants | VOCs | SVOCs | Pesticides | PCBs | As+3 | TOC | TCLP VOCs | TCLP SVOCs/Herb/Pest/Metals | No. of Containers | OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL4 0981 | 8-26-01 | 1111 | soil | | | | | | | | | | | | 1 | 2 | 3 | drill cuttings - IDW |
| LL40726 | 8-25-01 | 1216 | soil | | | | X | X | | | | | | | | | 2 | TNT = 5.3 ppm |
| L40727 | 8-25-01 | 1128 | soil | X | | | | | | | | | | | | | 1 | |
| L40889 | 8-24-01 | 1402 | sediment | X | | | X | | | | | X | | | | | 3 | |
| L40739 | 8-24-01 | 1523 | soil | X | | | | | | | | | | | | | 1 | |
| L40738 | 8-24-01 | 1523 | soil | | | | | X | | | | | | | | | 1 | |
| L40879 | 8-25-01 | 1643 | soil | X | | | | | | | | | | | | | 1 | |
| L40736 | 8-25-01 | 1615 | soil | X | | | | | | | | | | | | | 1 | |
| L40881 | 8-24-01 | 1410 | soil | X | | | | | | | | X | | | | | 2 | |
| LL40762 | 8-24-01 | 1650 | soil | | | | | X | | | | | | | | | 1 | |
| LL40872 | 8-26-01 | 1615 | soil | X | | X | | | X | X | | X | | | | | 3 | |
| LL40735 | 8-24-01 | 0935 | soil | | | | X | | | | | | | | | | 1 | TNT = 2.0 ppm |
| LL40909 | 8-24-01 | 0811 | soil | | | | X | | | | | | | | | | 1 | |

I-183

| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time |
|---|---|---|---|
| Vicki Brumback | 8-27-01 | | |
| COMPANY NAME: SAIC | 1555 | COMPANY NAME: | |
| RECEIVED BY: CO Wright | Date/Time 8-27-01 1555 | RELINQUISHED BY: Fed Ex T/O # | Date/Time |
| COMPANY NAME: | | COMPANY NAME: | |
| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time |
| COMPANY NAME: | | COMPANY NAME: | |

TOTAL NUMBER OF See p 2/2

Cooler Temperature: 4°C

Cooler ID: J921

FEDEX NUMBER: NA- Courier pickup

IDW analyzed for TCLP VOCs
TCLP SVOCs, Herbicides, Pesticides, Metals.

SAIC An Employee-Owned Company
Science Applications International Corporation
151 Layfayette Drive, Oak Ridge, Tennessee 37831(865) 481-4600

# CHAIN OF CUSTODY RECORD

COC NO.: LL4STL - 25
page 2 of 2

PROJECT NAME: Load Line 4 Phase II RI

DELIVERY ORDER NUMBER: ECAS 186

PROJECT MANAGER: Kevin Jago 865-481-4614

Sampler (Signature) (Printed Name)
Vicki Brumback Vicki Brumback

LABORATORY NAME:
Severn Trent Laboratories, Inc.

LABORATORY ADDRESS:
4101 Shuffel Drive NW
North Canton, Ohio 44720
Attn: Debbie Budd

PHONE NO: 330-497-9396

REQUESTED PARAMETERS

SOIL

| Sample ID | Date Collected | Time Collected | Matrix | TAL Metals | Cr+6 | CN | Explosives | Propellants | VOCs | SVOCs | Pesticides | PCBs | As+3 | TOC | TCLP | No. of Containers | OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL40808 | 8-23-01 | 1415 | soil | | | | X | | | | | | | | | 1 | TNT = 1.8 ppm |
| LL40906 | 8-23-01 | 1521 | soil | | | | X | | | | | | | | | 1 | |
| LL40878 | 8-24-01 | 1095 | soil | | | | X | | | | | | | | | 1 | RDX = 11.5 ppm |

VB 8-27-01

| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time | TOTAL NUMBER OF 24 | Cooler Temperature: 4°C |
|---|---|---|---|---|---|
| Vicki Brumback | 8-27-01 | | | | |
| COMPANY NAME: SAIC | 1555 | COMPANY NAME: | | Cooler ID: J921 | FEDEX NUMBER: NA Conner pickup |
| RECEIVED BY: Al Waidto | Date/Time 8-27-01 | RELINQUISHED BY: | Date/Time | | |
| COMPANY NAME: | 1555 | COMPANY NAME: | | | |
| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time | | |
| COMPANY NAME: | | COMPANY NAME: | | | |

SAIC An Employee-Owned Company
Science Applications International Corporation
151 Layfayette Drive, Oak Ridge, Tennessee 37831(865) 481-4600

# CHAIN OF CUSTODY RECORD

COC NO.: LL4STL - 26
page 1 of 1

PROJECT NAME: Load Line 4 Phase II RI

DELIVERY ORDER NUMBER: ECAS 186

PROJECT MANAGER: Kevin Jago 865-481-4614

Sampler (Signature): Vicki Brumback (Printed Name): Vicki Brumback

REQUESTED PARAMETERS

WATER

| Sample ID | Date Collected | Time Collected | Matrix | VOCs | SVOCs | PCBs | Pesticides | Metals | CN | Explosives | Propellants | Filtered Metals | | | | | | | | | No. of Containers | OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL41110 ✓ | 9-4-01 | 1633 | water | | 2 | 2 | 2 | | 1 | 2 | 2 | 1 | | | | | | | | | 12 | LL4-196 |

VIR 9-5-01

I-185

LABORATORY NAME: Severn Trent Laboratories, Inc.

LABORATORY ADDRESS: 4101 Shuffel Drive NW, North Canton, Ohio 44720, Attn: Debbie Budd

PHONE NO: 330-497-9396

| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time |
|---|---|---|---|
| Vicki Brumback | 9-5-01 | | |
| COMPANY NAME: SAIC | 1550 | COMPANY NAME: | |
| RECEIVED BY: Al Waidet | Date/Time 9-5-01 | RELINQUISHED BY: | Date/Time |
| COMPANY NAME: | 1550 | COMPANY NAME: | |
| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time |
| COMPANY NAME: | | COMPANY NAME: | |

TOTAL NUMBER OF 12

Cooler Temperature: 4°C

Cooler ID: J736

FEDEX NUMBER: NA- Courier pickup

VOCs for LL41110 will be sent later.

SAIC An Employee-Owned Company
Science Applications International Corporation
151 Layfayette Drive, Oak Ridge, Tennessee 37831(865) 481-4600

# CHAIN OF CUSTODY RECORD

COC NO.: LL4STL - 27
page 1 of 1

PROJECT NAME: Load Line 4 Phase II RI

DELIVERY ORDER NUMBER: ECAS 186

PROJECT MANAGER: Kevin Jago 865-481-4614

Sampler (Signature): Vicki Brumback (Printed Name): Vicki Brumback

REQUESTED PARAMETERS

WATER

| Sample ID | Date Collected | Time Collected | Matrix | VOCs | SVOCs | PCBs | Pesticides | Metals | CN | Explosives | Propellants | Filtered Metals | | | | | | | | | No. of Containers |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL91108 | 9-5-01 | 1017 | water | | 2 | 2 | 2 | | 1 | 2 | 2 | 1 | | | | | | | | | 12 |

V/b 9-5-01

LABORATORY NAME: Severn Trent Laboratories, Inc.

LABORATORY ADDRESS: 4101 Shuffel Drive NW, North Canton, Ohio 44720, Attn: Debbie Budd

PHONE NO: 330-497-9396

OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS

| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time | TOTAL NUMBER OF 12 | Cooler Temperature: 4°C |
|---|---|---|---|---|---|
| Vicki Brumback | 9-5-01 1550 | | | Cooler ID: H19 | FEDEX NUMBER: NA- Courier pickup |
| COMPANY NAME: SAIC | | COMPANY NAME: | | | |
| RECEIVED BY: Al Wardet | Date/Time 9-5-01 1550 | RELINQUISHED BY: | Date/Time | VOCs for LL91108 will be sent later. | |
| COMPANY NAME: | | COMPANY NAME: | | | |
| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time | | |
| COMPANY NAME: | | COMPANY NAME: | | | |

I-186

SAIC An Employee-Owned Company
Science Applications International Corporation
151 Layfayette Drive, Oak Ridge, Tennessee 37831(865) 481-4600

# CHAIN OF CUSTODY RECORD

COC NO.: LL4STL - 28
page 1 of 1

PROJECT NAME: Load Line 4 Phase II RI

DELIVERY ORDER NUMBER: ECAS 186

PROJECT MANAGER: Kevin Jago 865-481-4614

Sampler (Signature): Vicki Brumback (Printed Name): Vicki Brumback

REQUESTED PARAMETERS

WATER

| Sample ID | Date Collected | Time Collected | Matrix | VOCs | SVOCs | PCBs | Pesticides | Metals | CN | Explosives | Propellants | Filtered Metals | No. of Containers |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL4 1112 | 9-5-01 | 0938 | water | | 2 | 2 | 2 | | 1 | 2 | 2 | 1 | 12 |

VK 9-5-01

LABORATORY NAME: Severn Trent Laboratories, Inc.

LABORATORY ADDRESS: 4101 Shuffel Drive NW, North Canton, Ohio 44720, Attn: Debbie Budd

PHONE NO: 330-497-9396

OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS

| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time |
|---|---|---|---|
| Vicki Brumback | 9-5-01 | | |
| COMPANY NAME: SAIC | 1550 | COMPANY NAME: | |
| RECEIVED BY: Al Waidit | Date/Time 9-5-01 | RELINQUISHED BY: | Date/Time |
| COMPANY NAME: | 1550 | COMPANY NAME: | |
| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time |
| COMPANY NAME: | | COMPANY NAME: | |

TOTAL NUMBER OF 12

Cooler Temperature: 4°C

Cooler ID: K51

FEDEX NUMBER: NA Courier pickup

VOCs for LL4 1112 will be sent later.

SAIC An Employee-Owned Company
Science Applications International Corporation
151 Layfayette Drive, Oak Ridge, Tennessee 37831(865) 481-4600

vjb 9/6/01

COC NO.: LL4STL - ~~28~~ 29
page 1 of 1

# CHAIN OF CUSTODY RECORD

PROJECT NAME: Load Line 4 Phase II RI

DELIVERY ORDER NUMBER: ECAS 186

PROJECT MANAGER: Kevin Jago 865-481-4614

Sampler (Signature): Vicki Brumback (Printed Name): Vicki Brumback

REQUESTED PARAMETERS

WATER

| Sample ID | Date Collected | Time Collected | Matrix | VOCs | SVOCs | PCBs | Pesticides | Metals | CN | Explosives | Propellants | Filtered Metals | | | | | | | | No. of Containers |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL41006 | 9-5-01 | 1432 | water | | 2 | 2 | 2 | | 1 | 2 | 2 | 1 | | | | | | | | 12 |

9-6-01 vjb

LABORATORY NAME: Severn Trent Laboratories, Inc.

LABORATORY ADDRESS: 4101 Shuffel Drive NW, North Canton, Ohio 44720, Attn: Debbie Budd

PHONE NO: 330-497-9396

OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS

| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time | TOTAL NUMBER OF 12 | Cooler Temperature: 4°C |
|---|---|---|---|---|---|
| Vicki Brumback | 9-5-01 | | | Cooler ID: vjb ~~#511~~ J75 | FEDEX NUMBER: NA- Courier pickup |
| COMPANY NAME: SAIC | | COMPANY NAME: | | | |
| RECEIVED BY: Al Waidit | Date/Time 9-5-01 15-5-5 | RELINQUISHED BY: | Date/Time | 9/6/01 | |
| COMPANY NAME: | | COMPANY NAME: | | VOCs are in J921. | |
| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time | | |
| COMPANY NAME: | | COMPANY NAME: | | | |

SAIC An Employee-Owned Company
Science Applications International Corporation
151 Layfayette Drive, Oak Ridge, Tennessee 37831(865) 481-4600

# CHAIN OF CUSTODY RECORD

COC NO.: LL4STL - 30
page 1 of 1

PROJECT NAME: Load Line 4 Phase II RI

DELIVERY ORDER NUMBER: ECAS 186

PROJECT MANAGER: Kevin Jago 865-481-4614

Sampler (Signature): Vicki Brumback (Printed Name): Vicki Brumback

REQUESTED PARAMETERS — WATER

| Sample ID | Date Collected | Time Collected | Matrix | VOCs | SVOCs | PCBs | Pesticides | Metals | CN | Explosives | Propellants | Filtered Metals | No. of Containers | OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL41118 | 9-6-01 | 1000 | water | 3 | 2 | 2 | 2 | | 1 | 2 | 2 | 1 | 15 | |
| LL41182 | 9-4-01 | 0800 | water | 2 | | | | | | | | | 2 | TRIP BLANK |
| LL41108 | 9-5-01 | 1017 | water | 3 | | | | | | | | | 3 | |
| LL41110 | 9-4-01 | 1633 | water | 3 | | | | | | | | | 3 | |
| LL41152 | 9-6-01 | 1000 | water | 3 | | | | | | | | | 3 | dup of LL41118 |
| LL41112 | 9-5-01 | 0938 | water | 3 | | | | | | | | | 3 | |
| LL41006 | 9-5-01 | 1432 | water | 3 | | | | | | | | | 3 | |
| | | | | | 9-6-01 | | | | | | | | | |

LABORATORY NAME: Severn Trent Laboratories, Inc.

LABORATORY ADDRESS: 4101 Shuffel Drive NW, North Canton, Ohio 44720, Attn: Debbie Budd

PHONE NO: 330-497-9396

| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time | TOTAL NUMBER OF 32 | Cooler Temperature: 4°C |
|---|---|---|---|---|---|
| Vicki Brumback | 9-6-01 1555 | | | Cooler ID: T921 | FEDEX NUMBER: NA Courier pickup |
| COMPANY NAME: SAIC | | COMPANY NAME: | | | |
| RECEIVED BY: Al Waidel | Date/Time 9-6-01 1555 | RELINQUISHED BY: | Date/Time | | |
| COMPANY NAME: | | COMPANY NAME: | | | |
| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time | | |
| COMPANY NAME: | | COMPANY NAME: | | | |

SAIC An Employee-Owned Company
Science Applications International Corporation
151 Layfayette Drive, Oak Ridge, Tennessee 37831(865) 481-4600

COC NO.: LL4STL - 31
page 1 of 1

# CHAIN OF CUSTODY RECORD

PROJECT NAME: Load Line 4 Phase II RI

DELIVERY ORDER NUMBER: ECAS 186

PROJECT MANAGER: Kevin Jago 865-481-4614

Sampler (Signature): Vicki Brumback (Printed Name): Vicki Brumback

LABORATORY NAME: Severn Trent Laboratories, Inc.

LABORATORY ADDRESS: 4101 Shuffel Drive NW, North Canton, Ohio 44720, Attn: Debbie Budd

PHONE NO: 330-497-9396

REQUESTED PARAMETERS

WATER

| Sample ID | Date Collected | Time Collected | Matrix | VOCs | SVOCs | PCBs | Pesticides | Metals | CN | Explosives | Propellants | Filtered Metals | No. of Containers | OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL4 1152 | 9-6-01 | 1000 | water | | 2 | 2 | 2 | | 1 | 2 | 2 | 1 | 12 | |

I-190

VOA 9-6-01

RELINQUISHED BY: Vicki Brumback — Date/Time: 9-6-01 1555 — RECEIVED BY: — Date/Time: — TOTAL NUMBER OF 12 — Cooler Temperature: 4°C

COMPANY NAME: SAIC — COMPANY NAME: — Cooler ID: 05 — FEDEX NUMBER: NA Courier Pickup

RECEIVED BY: Al Haist — Date/Time: 9-6-01 1555 — RELINQUISHED BY: — Date/Time:

COMPANY NAME: — COMPANY NAME:

RELINQUISHED BY: — Date/Time: — RECEIVED BY: — Date/Time:

COMPANY NAME: — COMPANY NAME:

SAIC An Employee-Owned Company
Science Applications International Corporation
151 Layfayette Drive, Oak Ridge, Tennessee 37831(865) 481-4600

# CHAIN OF CUSTODY RECORD

COC NO.: LL4STL - 32
page 1 of 1

PROJECT NAME: Load Line 4 Phase II RI

DELIVERY ORDER NUMBER: ECAS 186

PROJECT MANAGER: Kevin Jago 865-481-4614

Sampler (Signature): Vicki Brumback (Printed Name): Vicki Brumback

REQUESTED PARAMETERS

WATER

| Sample ID | Date Collected | Time Collected | Matrix | VOCs | SVOCs | PCBs | Pesticides | Metals | CN | Explosives | Propellants | Filtered Metals | No. of Containers |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL4 1116 | 9-6-01 | 1215 | Water | | 2 | 2 | 2 | | 1 | 2 | 2 | 1 | 12 |

9-10-01 416

LABORATORY NAME: Severn Trent Laboratories, Inc.

LABORATORY ADDRESS: 4101 Shuffel Drive NW, North Canton, Ohio 44720, Attn: Debbie Budd

PHONE NO: 330-497-9396

OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS

| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time |
|---|---|---|---|
| Vicki Brumbak | 9-10-01 | | |
| COMPANY NAME: SAIC | 1545 | COMPANY NAME: | |
| RECEIVED BY: Al Waldt | Date/Time 9-10-01 | RELINQUISHED BY: | Date/Time |
| COMPANY NAME: | 1545 | COMPANY NAME: | |
| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time |
| COMPANY NAME: | | COMPANY NAME: | |

TOTAL NUMBER OF 12

Cooler Temperature: 4°C

Cooler ID: K51

FEDEX NUMBER: NA- Courier pickup

VOCs for LL4111b are in cooler # J736.

I-191

SAIC An Employee-Owned Company
Science Applications International Corporation
151 Layfayette Drive, Oak Ridge, Tennessee 37831(865) 481-4600

# CHAIN OF CUSTODY RECORD

COC NO.: LL4STL - 33
page 1 of 1

PROJECT NAME: Load Line 4 Phase II RI

DELIVERY ORDER NUMBER: ECAS 186

PROJECT MANAGER: Kevin Jago 865-481-4614

Sampler (Signature): Vicki Brumback (Printed Name): Vicki Brumback

REQUESTED PARAMETERS

WATER

| Sample ID | Date Collected | Time Collected | Matrix | VOCs | SVOCs | PCBs | Pesticides | Metals | CN | Explosives | Propellants | Filtered Metals | No. of Containers |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL4 1120 | 9-6-01 | 1600 | water | | 2 | 2 | 2 | | 1 | 2 | 2 | 1 | 12 |

9-16-01

LABORATORY NAME: Severn Trent Laboratories, Inc.

LABORATORY ADDRESS: 4101 Shuffel Drive NW, North Canton, Ohio 44720, Attn: Debbie Budd

PHONE NO: 330-497-9396

OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS

| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time |
|---|---|---|---|
| Vicki Brumback | 9-16-01 | | |
| COMPANY NAME: SAIC | 1545 | COMPANY NAME: | |
| RECEIVED BY: | Date/Time | RELINQUISHED BY: | Date/Time |
| COMPANY NAME: Al Waddell | 9-16-01 1545 | COMPANY NAME: | |
| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time |
| COMPANY NAME: | | COMPANY NAME: | |

TOTAL NUMBER OF 12

Cooler Temperature: 4°C

Cooler ID: K99

FEDEX NUMBER: NA- Courier pickup

VOCs for LL41120 are in cooler # J736.

I-192

SAIC An Employee-Owned Company
Science Applications International Corporation
151 Layfayette Drive, Oak Ridge, Tennessee 37831(865) 481-4600

# CHAIN OF CUSTODY RECORD

COC NO.: LL4STL - 34
page 1 of 1

PROJECT NAME: Load Line 4 Phase II RI

DELIVERY ORDER NUMBER: ECAS 186

PROJECT MANAGER: Kevin Jago 865-481-4614

Sampler (Signature) (Printed Name)
Vicki Brumback Vicki Brumback

REQUESTED PARAMETERS

WATER

| Sample ID | Date Collected | Time Collected | Matrix | VOCs | SVOCs | PCBs | Pesticides | Metals | CN | Explosives | Propellants | Filtered Metals | | | | | | | | | No. of Containers | OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL41114 | 9-7-01 | 0840 | water | 3 | 2 | 2 | 2 | | 1 | 2 | 2 | 1 | | | | | | | | | 15 | |
| LL41120 | 9-6-01 | 1600 | water | 3 | | | | | | | | | | | | | | | | | 3 | |
| LL41183 | 9-6-01 | 1200 | water | 3 | | | | | | | | | | | | | | | | | 3 | TRIP BLANK |
| LL41116 | 9-6-01 | 1215 | water | 3 | | | | | | | | | | | | | | | | | 3 | |

9-10-01

LABORATORY NAME:
Severn Trent Laboratories, Inc.

LABORATORY ADDRESS:
4101 Shuffel Drive NW
North Canton, Ohio 44720
Attn: Debbie Budd

PHONE NO: 330-497-9396

| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time |
|---|---|---|---|
| Vicki Brumback | 9-10-01 1545 | | |
| COMPANY NAME: SAIC | | COMPANY NAME: | |
| RECEIVED BY: | Date/Time | RELINQUISHED BY: | Date/Time |
| [illegible] Waidet | 9-10-01 1545 | | |
| COMPANY NAME: | | COMPANY NAME: | |
| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time |
| COMPANY NAME: | | COMPANY NAME: | |

TOTAL NUMBER OF 24
Cooler ID: J736
Cooler Temperature: 4°C
FEDEX NUMBER: NA- Courier pickup

I-193

SAIC — An Employee-Owned Company
Science Applications International Corporation
151 Layfayette Drive, Oak Ridge, Tennessee 37831(865) 481-4600

COC NO.: STL - IDW-01
page 1 of 1

# CHAIN OF CUSTODY RECORD

PROJECT NAME: Load Line 2, 3, 4 Phase II RI

DELIVERY ORDER NUMBER: ECAS 186

PROJECT MANAGER: KEVIN JAGO (865)481-4614

Sampler (Signature): Martha Clough (Printed Name): Martha Clough

| Sample ID | Date Collected | Time Collected | Matrix |
|---|---|---|---|
| LL21227 | 12/11/01 | 1605 | SOIL |
| LL31171 | 12/11/01 | 1420 | SOIL |
| LL41184 | 12/11/01 | 1505 | SOIL |

REQUESTED PARAMETERS

| TCLP Metals | TCLP SVOCs | TCLP Pesticides | PH | IGNITABILITY | No. of Containers |
|---|---|---|---|---|---|
| X | X | | X | X | |
| X | X | X | X | X | |
| X | X | X | X | X | |

LABORATORY NAME: Severn Trent Lab. Inc.

LABORATORY ADDRESS: 4101 Shuttle Drive NW North Canton, OH 44720 Attn: Debbie Bundel

PHONE NO: 330.497.7396

OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS

| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time | TOTAL NUMBER OF 9 | Cooler Temperature: 4°C |
|---|---|---|---|---|---|
| COMPANY NAME: SAIC | | COMPANY NAME: | | Cooler ID: J618 | FEDEX NUMBER: NA - Hand Delivered |
| RECEIVED BY: | Date/Time | RELINQUISHED BY: | Date/Time | | |
| COMPANY NAME: STL | 12/2/01 12:10p | COMPANY NAME: | | | |
| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time | | |
| COMPANY NAME: | | COMPANY NAME: | | | |

SAIC An Employee-Owned Company
Science Applications International Corporation
151 Layfayette Drive, Oak Ridge, Tennessee 37831(865) 481-4600

# CHAIN OF CUSTODY RECORD

COC NO.: LL4GPL - 01
page 1 of 2

PROJECT NAME: Load Line 4 Phase II RI

DELIVERY ORDER NUMBER: ECAS 186

PROJECT MANAGER: Kevin Jago 865-481-4614

Sampler (Signature): Vicki Brumback (Printed Name): Vicki Brumback

REQUESTED PARAMETERS

SOIL

| Sample ID | Date Collected | Time Collected | Matrix | TAL Metals | Cr+6 | CN | Explosives | Propellants | VOCs | SVOCs | Pesticides | PCBs | As+3 | TOC | TCLP | No. of Containers |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL4 1158 | 8-12-01 | 0911 | Sediment | X | | | X | | | | | X | | | | 3 |

VOA 8/13/01

LABORATORY NAME: GP Environmental, Inc.

LABORATORY ADDRESS: 202 Perry Parkway, Gaithersburg, MD 20877, Attn: Darry Hartman

PHONE NO: 301-926-6802

OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS

| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time |
|---|---|---|---|
| Vicki Brumback | 8-13-01 1700 | | |
| COMPANY NAME: SAIC | ~~SAIC~~ | COMPANY NAME: | |
| RECEIVED BY: | Date/Time | RELINQUISHED BY: | Date/Time |
| COMPANY NAME: | | COMPANY NAME: | |
| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time |
| COMPANY NAME: | | COMPANY NAME: | |

TOTAL NUMBER OF See p2/2

Cooler Temperature: 4°C

Cooler ID: J827

FEDEX NUMBER: 818850985460 (2 coolers)

SAIC An Employee-Owned Company
Science Applications International Corporation
151 Layfayette Drive, Oak Ridge, Tennessee 37831(865) 481-4600

# CHAIN OF CUSTODY RECORD

COC NO.: LL4GPL - 01
page 2 of 2

PROJECT NAME: Load Line 4 Phase II RI

DELIVERY ORDER NUMBER: ECAS 186

PROJECT MANAGER: Kevin Jago 865-481-4614

Sampler (Signature): Vicki Brumback (Printed Name): Vicki Brumback

REQUESTED PARAMETERS

WATER

| Sample ID | Date Collected | Time Collected | Matrix | VOCs | SVOCs | PCBs | Pesticides | Metals | CN | Explosives | Propellants | Filtered Metals | No. of Containers |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL4 1172 | 8-13-01 | 0835 | water | 3 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | | 15 |
| LL4 1179 | 8-13-01 | 0825 | water | 1 | | | | | | | | | 1 |

VB 8-13-01

LABORATORY NAME: GP Environmental, Inc.

LABORATORY ADDRESS: 202 Perry Parkway, Gaithersburg, MD 20877, Attn: Darry Hartman

PHONE NO: 301-926-6802

OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS

| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time |
|---|---|---|---|
| Vicki Brumback | 8-13-01 1700 | | |
| COMPANY NAME: SAIC | | COMPANY NAME: | |
| RECEIVED BY: | Date/Time | RELINQUISHED BY: | Date/Time |
| COMPANY NAME: | | COMPANY NAME: | |
| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time |
| COMPANY NAME: | | COMPANY NAME: | |

TOTAL NUMBER OF 19

Cooler Temperature: 4 °C

Cooler ID: J827

FEDEX NUMBER: 818850985460 (2 coolers)

SAIC An Employee-Owned Company
Science Applications International Corporation
151 Layfayette Drive, Oak Ridge, Tennessee 37831(865) 481-4600

# CHAIN OF CUSTODY RECORD

COC NO.: LL4GPL - 62
page 1 of 1

PROJECT NAME: Load Line 4 Phase II RI

DELIVERY ORDER NUMBER: ECAS 186

PROJECT MANAGER: Kevin Jago 865-481-4614

Sampler (Signature) Vicki Brumback (Printed Name) Vicki Brumback

REQUESTED PARAMETERS

SOIL

| Sample ID | Date Collected | Time Collected | Matrix | TAL Metals | Cr+6 | CN | Explosives | Propellants | VOCs | SVOCs | Pesticides | PCBs | As+3 | TOC | TCLP | No. of Containers |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL41165 | 8-14-01 | 0820 | soil | X | | | | | | | | X | | | | 2 |
| LL41163 | 8-14-01 | 1347 | sediment | X | | | | | | | | X | | | | 2 |
| LL41159 | 8-14-01 | 1410 | soil | X | | | X | | | | | X | | | | 3 |
| 41161 | 8-14-01 | 1125 | soil | X | | | | | | | | X | | | | 2 |
| 41155 | 8-13-01 | 1551 | sediment | X | | X | X | X | X | X | X | X | | | | 5 |

Vjb 8/15/01

LABORATORY NAME: GP Environmental, Inc.

LABORATORY ADDRESS: 202 Perry Parkway, Gaithersburg, MD 20877, Attn: Darry Hartman

PHONE NO: 301-926-6802

OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS

| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time |
|---|---|---|---|
| Vicki Brumback | 8-15-01 1500 | | |
| COMPANY NAME: SAIC | | COMPANY NAME: | |
| RECEIVED BY: | Date/Time | RELINQUISHED BY: | Date/Time |
| COMPANY NAME: | | COMPANY NAME: | |
| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time |
| COMPANY NAME: | | COMPANY NAME: | |

TOTAL NUMBER OF 14

Cooler Temperature: 4°C

Cooler ID: STL K49

FEDEX NUMBER: 818850985493

SAIC An Employee-Owned Company
Science Applications International Corporation
151 Layfayette Drive, Oak Ridge, Tennessee 37831(865) 481-4600

# CHAIN OF CUSTODY RECORD

COC NO.: LL4GPL - 03
page 1 of 1

PROJECT NAME: Load Line 4 Phase II RI

DELIVERY ORDER NUMBER: ECAS 186

PROJECT MANAGER: Kevin Jago 865-481-4614

Sampler (Signature): Vicki Brumback (Printed Name): Vicki Brumback

REQUESTED PARAMETERS

SOIL

| Sample ID | Date Collected | Time Collected | Matrix | TAL Metals | Cr+6 | CN | Explosives | Propellants | VOCs | SVOCs | Pesticides | PCBs | As+3 | TOC | TCLP | No. of Containers |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL41169 | 8-23-01 | 0910 | soil | X | | | | | | | | | | | | 1 |
| LL41166 | 8-21-01 | 1010 | soil | X | | | | | | | | X | | | | 2 |
| L41164 | 8-22-01 | 0905 | soil | X | | | | | | | | X | | | | 2 |
| L41162 | 8-23-01 | 1125 | soil | X | | | | | | | | X | | | | 2 |
| L41157 | 8-23-01 | 0949 | soil | X | | | X | | X | X | | X | | | | 4 |
| L41156 | 8-22-01 | 0830 | soil | X | | X | X | | X | X | X | X | | | | 4 |

8-23-01

LABORATORY NAME: GP Environmental, Inc.

LABORATORY ADDRESS: 202 Perry Parkway, Gaithersburg, MD 20877, Attn: Darry Hartman

PHONE NO: 301-926-6802

OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS

| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time |
|---|---|---|---|
| Vicki Brumback | 8-23-01 | | |
| COMPANY NAME: SAIC | 1700 | COMPANY NAME: | |
| RECEIVED BY: | Date/Time | RELINQUISHED BY: | Date/Time |
| COMPANY NAME: | | COMPANY NAME: | |
| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time |
| COMPANY NAME: | | COMPANY NAME: | |

TOTAL NUMBER OF 15

Cooler Temperature: 4°C

Cooler ID: J262

FEDEX NUMBER: 829341083922

L-198

SAIC An Employee-Owned Company
Science Applications International Corporation
151 Layfayette Drive, Oak Ridge, Tennessee 37831(865) 481-4600

# CHAIN OF CUSTODY RECORD

COC NO.: LL4GPL - 04
page 1 of 1

PROJECT NAME: Load Line 4 Phase II RI

DELIVERY ORDER NUMBER: ECAS 186

PROJECT MANAGER: Kevin Jago 865-481-4614

Sampler (Signature): Vicki Brumback (Printed Name): Vicki Brumback

REQUESTED PARAMETERS

SOIL

| Sample ID | Date Collected | Time Collected | Matrix | TAL Metals | Cr+6 | CN | Explosives | Propellants | VOCs | SVOCs | Pesticides | PCBs | As+3 | TOC | TCLP | No. of Containers |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL4 1160 | 8-24-01 | 1045 | soil | X | | | | | | | | X | | | | 2 |
| LL4 1167 | 8-23-01 | 1339 | soil | X | | | | | | | | | | | | 1 |
| LL4 1168 | 8-24-01 | 1411 | soil | X | | | | | | | | | | | | 1 |

Cr+6 8-27-01

LABORATORY NAME: GP Environmental, Inc.

LABORATORY ADDRESS: 202 Perry Parkway, Gaithersburg, MD 20877, Attn: Darry Hartman

PHONE NO: 301-926-6802

OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS

| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time |
|---|---|---|---|
| Vicki Brumback | 8-27-01 1700 | | |
| COMPANY NAME: SAIC | | COMPANY NAME: | |
| RECEIVED BY: | Date/Time | RELINQUISHED BY: | Date/Time |
| COMPANY NAME: | | COMPANY NAME: | |
| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time |
| COMPANY NAME: | | COMPANY NAME: | |

TOTAL NUMBER OF 4

Cooler Temperature: 4°C

Cooler ID: STL A36

FEDEX NUMBER: 829341083885

I-199

SAIC An Employee-Owned Company
Science Applications International Corporation
151 Layfayette Drive, Oak Ridge, Tennessee 37831(865) 481-4600

# CHAIN OF CUSTODY RECORD

COC NO.: LL4GPL - 05
page 1 of 1

PROJECT NAME: Load Line 4 Phase II RI

DELIVERY ORDER NUMBER: ECAS 186

PROJECT MANAGER: Kevin Jago 865-481-4614

Sampler (Signature): Vicki Brumback (Printed Name): Vicki Brumback

REQUESTED PARAMETERS

WATER

| Sample ID | Date Collected | Time Collected | Matrix | VOCs | SVOCs | PCBs | Pesticides | Metals | CN | Explosives | Propellants | Filtered Metals | No. of Containers | OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL41182 | 9-4-01 | 0800 | water | 1 | | | | | | | | | 1 | TRIP BLANK |
| LL41170 | 9-6-01 | 1000 | water | 3 | 2 | 2 | 2 | | 1 | 2 | 2 | 1 | 15 | |

9-6-01 VB

LABORATORY NAME: GP Environmental, Inc.

LABORATORY ADDRESS: 202 Perry Parkway, Gaithersburg, MD 20877, Attn: Darry Hartman

PHONE NO: 301-926-6802

| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time |
|---|---|---|---|
| Vicki Brumback | 9-6-01 | | |
| COMPANY NAME: SAIC | 1700 | COMPANY NAME: | |
| RECEIVED BY: | Date/Time | RELINQUISHED BY: | Date/Time |
| COMPANY NAME: | | COMPANY NAME: | |
| RELINQUISHED BY: | Date/Time | RECEIVED BY: | Date/Time |
| COMPANY NAME: | | COMPANY NAME: | |

TOTAL NUMBER OF 16

Cooler Temperature: 4°C

Cooler ID: STL J859
STL K173

FEDEX NUMBER: 829341083841 (2 coolers)

2 SVOC ambers, 1 pesticide amber, 1 explosives amber, 1 CN poly, 1 metals poly, 3 VOC vials + Trip Blank in STL K173. Remaining in STL J859.

1-200