4.4.4.3 Outlets D, E, and F and Criggy's Pond

Sediment samples collected from stations in the Outlets D, E, and F and Criggy's Pond area were not analyzed for SVOCs, VOCs, or PCBs/pesticides.

4.4.4.4 North Area

Sediment samples collected from the station in the North Area were not analyzed for SVOCs, VOCS, or PCBs/pesticides.

4.4.4.5 Off-area of concern

Two VOCs were detected at two stations in the off-AOC area. 2-Butanone and acetone were both detected at LL1-318 and at LL1-323. No SVOCs or PCBs/pesticides were detected in sediment samples (Tables 4-40, 4-41, and 4-42).

4.4.5 Summary of Sediment Results

The interpretation of chemical data obtained from LL 1 sediment is summarized as follows:

- Ditch sediments near Buildings CB-13 and CB-13B contain the greatest quantity of explosives, propellants, and TOC.

- Explosive contamination does not appear to have migrated far along drainages exiting LL 1. The source of all explosives in ditch and pond sediments is believed to be from pink wastewater discharged directly from the load line, rather than from migration of surface soil contamination.

- Metals were detected in all sediment samples but were concentrated and most abundant along Outlets A and B, C, and D, E, F. Metals detected in off-AOC areas were most likely transported to those locations in process-related effluents exiting the site through Outlet C. However, the presence of metals in sediments at LL1-318, which is upstream of the confluence with LL 1 drainageways, indicates that other areas at RVAAP may be contributing contaminants to downstream off-AOC locations.

- PCBs were detected at isolated locations within drainage ditches, indicating minimal migration of these compounds across the site.

4.5 SURFACE WATER

A total of 14 surface water samples were collected from 8 locations during the Phase II RI to determine nature and extent of contamination (see Plate 3-1 and Figure 4-2). Six of these samples were co-located with sediment samples, while the remaining two were collected from Charlie's and Criggy's ponds. The majority of surface water samples were collected from off-AOC areas in order to more fully characterize LL 1 potential impacts on surface water quality in the unnamed tributary to the West Branch of the Mahoning River as it exits the installation to the east through PF534. No surface water samples were collected during the Phase I RI. Therefore, it is not clear whether contaminants identified in surface water during the Phase II RI are the result of the reworking and mobilization of contaminated soils during the recent demolition of the buildings, rather than migration over time of contaminants left in situ.

All surface water sample collection and analysis for the Phase II RI was conducted in accordance with the SAP Addendum No. 2 (USACE 2000b), as described in Chapter 3.0 of this report. Surface water samples

were analyzed for explosives, TAL metals, VOCs, SVOCs, PCBs/pesticides, and cyanide. Six stations (LL1-318 through LL1-323) were sampled twice during the Phase II effort, in September 2000 and again in November 2000.

Summary statistics (including determination of SRCs) are provided in Tables 4-21 through 4-24, and the analytical results for surface water samples collected at LL 1 are provided by sample aggregate, station, and analyte in Tables 4-43 through 4-47. The following sections describe the distribution of explosives, propellants, and inorganic and organic constituents in the five aggregate areas: Drainage A, Drainage C and Ponds, Drainage E/F, North Area, and off-AOC.

4.5.1 Explosives and Propellants

Eleven explosive compounds were detected in 14 surface water samples collected to determine nature and extent of contamination. The most commonly detected explosives compounds were 4-Amino-2,6-DNT (three detections) and 4-Nitrotoluene (three detections). Propellants were not detected in surface water.

4.5.1.1 Outlets A and B

Due to dry weather conditions, surface water samples could not be collected from Outlets A and B.

4.5.1.2 Outlet C and Charlie's Pond

Station LL1-059 was the only Outlet C and Charlie's Pond surface water sample collected. 3-Nitrotoluene was detected in Charlie's Pond at a concentration of 0.17 µg/L. No other explosives or propellants were detected in this surface water sample.

4.5.1.3 Outlets D, E, and F and Criggy's Pond

One sample (LL1-053) was collected from this aggregate for surface water analysis for explosives/propellants. There were no detected explosives or propellants.

4.5.1.4 North Area

Due to dry weather conditions, no surface water samples were collected and analyzed for explosives or propellants in the North Area.

4.5.1.5 Off-area of concern

Seven explosive compounds were detected in two surface water samples collected at station LL1-319. 2-Amino-4,6-DNT (0.22 µg/L), 3-nitrotoluene (0.14 µg/L), 4-amino-2,6-DNT (0.2 µg/L), and 4-nitrotoluene (0.11 µg/L) were detected in the first round of sampling in September. In the second round of sampling in November, 2,4,6-TNT (0.11 µg/L), RDX (0.16 µg/L), and tetryl (0.13 µg/L) were detected along with 2-amino-4,6-DNT and 4-amino-2,6-DNT at the same concentrations, yet 3-nitrotoluene and 4-nitrotoluene were not detected. Note that sediments at this location tested negative for field explosives and were not analyzed for laboratory explosives.

Five explosive compounds were detected in the two samples collected and analyzed for these compounds at station LL1-320, which is at the AOC boundary. These compounds were 2,4,6-TNT, 2,4-DNT, 2,6-DNT, 2-nitrotoluene, and 4-nitrotoluene (Table 4-44).

Four of the above explosive compounds were also detected in the remaining eight stations in the off-AOC area. The compounds were detected once each in one of three samples. 1,3-DNB was detected at 0.07 µg/L at station LL1-318 during the first round of sampling, and 2,4-DNT and 4-amino-2,6-DNT were both detected at 0.1 µg/L at the same station during the second round of sampling. 4-Nitrotoluene was detected at 0.1 µg/L at station LL1-322. Explosives were not detected at LL1-323 (PF534) at the facility exit point or other stations in the off-AOC aggregate.

4.5.2 Target Analyte List Metals and Cyanide

Of the 23 TAL metals analyzed in the 14 surface water samples collected at LL 1, barium, calcium, iron, magnesium, and manganese were consistently detected in every surface water sample. Cyanide was not detected in any surface water sample. The following subsections describe the inorganic constituents that were detected above background in surface water for each sample aggregate.

4.5.2.1 Outlets A and B

Surface water samples could not be collected from Outlets A and B due to dry conditions.

4.5.2.2 Outlet C and Charlie's Pond

One sample was collected from station LL1-059 in the Outlet C and Charlie's Pond area. Nine TAL metals were detected above background criteria. Arsenic, barium, chromium, iron, lead, manganese, nickel, potassium, and vanadium were detected above background.

4.5.2.3 Outlets D, E, and F and Criggy's Pond

Surface water sample LL1-053 was collected from Criggy's Pond in the Outlets D, E, and F and Criggy's Pond aggregate.

Arsenic was the only compound detected above background at station LL1-053. Maximum detections for these metals occurred at LL1-320 at the AOC boundary for cobalt and zinc. Arsenic concentration was unusually high in Charlie's Pond, exceeding background by 10× (Table 4-42).

4.5.2.4 North Area

No surface water samples were collected and analyzed for inorganics in the North Area.

4.5.2.5 Off-area of concern

Thirteen TAL metals were detected in surface water above background criteria at least once in the off-AOC area. Distributions of selected inorganics (arsenic and manganese) in the off-AOC area are presented in Figure 4-34. Arsenic was detected above background in every sample where it was analyzed, and manganese was detected above background in 10 of 12 samples. Maximum detections for barium, iron, lead, and manganese occurred at station LL1-318. The maximum detection for arsenic occurred at LL1-322 (Table 4-43). Station LL1-319 had maximum concentrations for aluminum and vanadium. Station LL1-320 had maximum concentrations for cobalt, magnesium, and zinc.

4.5.3 Semivolatile Organic Compounds, Volatile Organic Compounds, and Polychlorinated Biphenyls

Of the SVOCs, VOCs, and PCBs analyzed in the surface water samples collected at LL 1, only the SVOC bis(2-ethylhexyl)pthalate was detected. It was present in LL1-323 with a concentration of 12 µg/L.

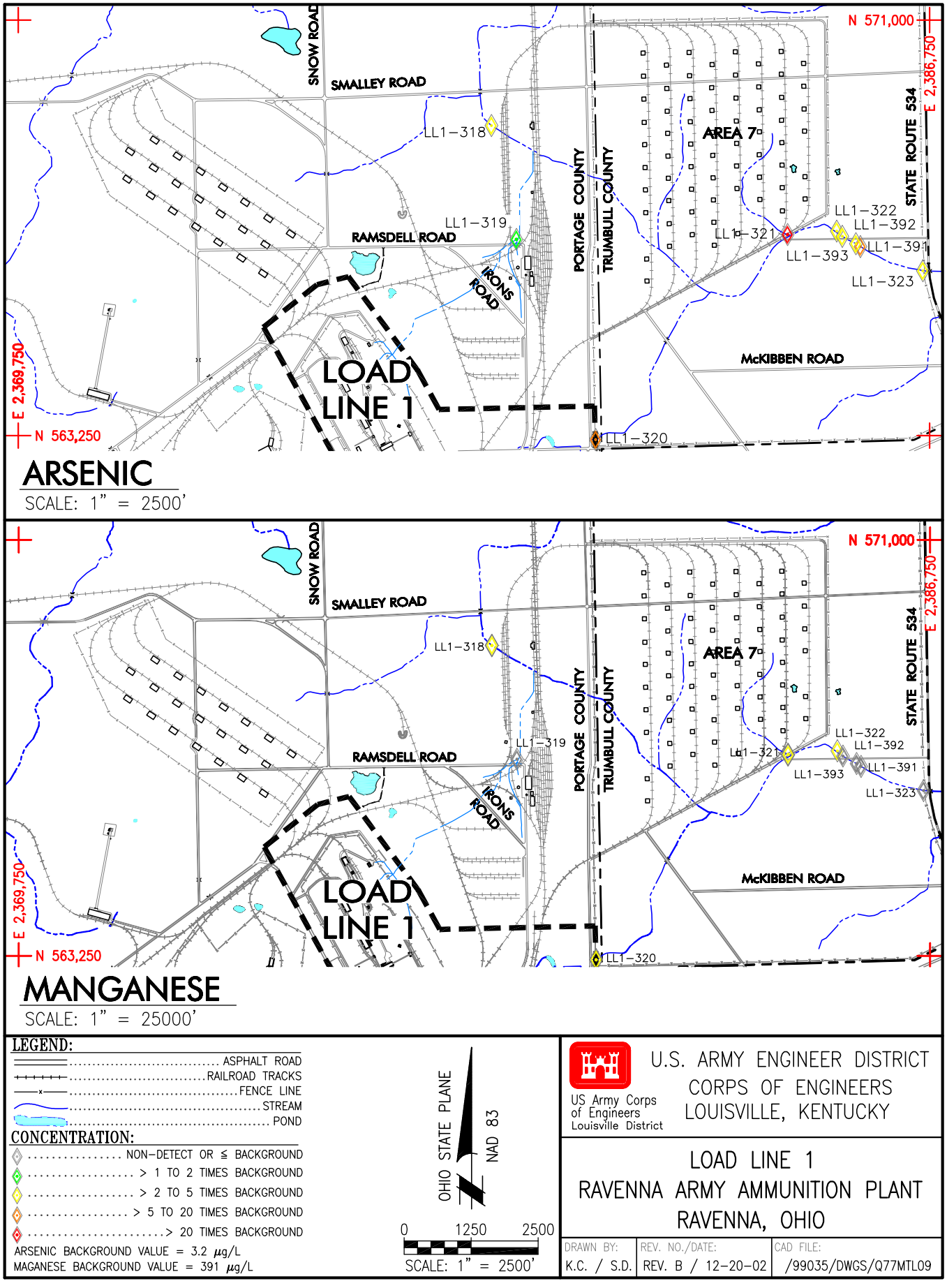


Figure 4-34. Distribution of Arsenic and Manganese in Surface Water at Off-AOC Locations

4.5.3.1 Outlets A and B

No surface water samples were analyzed for SVOCs, VOCs, and PCBs in Outlets A and B.

4.5.3.2 Outlet C and Charlie's Pond

No SVOCs, VOCs, or PCBs were detected in surface water samples collected in the Outlet C and Charlie's Pond area.

4.5.3.3 Outlet D, E, and F and Criggy's Pond

One surface water sample was collected and analyzed for SVOCs, VOCs, or PCBs in Outlet D, E, and F and Criggy's Pond. There were no detected organic compounds in this sample.

4.5.3.4 North Area

Due to dry conditions, no surface water samples were collected and analyzed for SVOCs, VOCs, or PCBs in the North Area.

4.5.3.5 Off-area of concern

The only SVOC [bis(2-ethylhexyl)phthalate] detected during the Phase II RI in the off-AOC area occurred at station LL1-323. Note that no SVOCs were detected in sediment at this location (Table 4-45). No VOCs or PCBs/pesticides were detected in surface water (Tables 4-44 and 4-46).

4.5.4 Summary of Surface Water Results

The interpretation of chemical data obtained from LL 1 surface water is summarized as follows:

- The highest explosives concentrations in surface water occurred at locations in which sediment samples tested negative for field explosives and were not analyzed for laboratory explosives.

- Metals were detected in all surface water samples but were most abundant at Charlie's Pond at the AOC boundary along Drainage C and in the off-AOC station LL1-320, and at stations LL1-318 and LL1-319, which are upstream of the confluence with LL1 drainageways. The presence of metals in surface water at LL1-318 and -319 indicates that other areas at RVAAP may be contributing contaminants to downstream off-AOC locations.

- No SVOCs, VOCs, or PCBs/pesticides were detected in surface water within the LL 1 AOC. These compounds are most likely not migrating along drainageways due to high sorption potential to soils and sediments. The one minor detection in the off-AOC area is most likely due to contributions from other areas.

4.6 GROUNDWATER

Groundwater samples were collected in 1999 and 2000 from the eight newly installed Phase II RI monitoring wells (LL1mw-078 through LL1mw-085) and five existing monitoring wells from the Phase I RI (LL1mw-059, LL1mw-060, LL1mw-064, LL1mw-065, and LL1mw-067) (Plate 3-1). Monitoring well LL1mw-063 was not sampled during either sampling event of the Phase II RI because it was dry. Monitoring wells LL2mw-059 and LL2mw-060 are located in LL 2, but were sampled because they are close to LL1 (Figure 3-1). LL1mw-064 and LL1mw-065 are located in the eastern portion of LL 1 near

the AOC boundary. LL1mw-067 is located on the northeastern boundary of the AOC. The remaining monitoring wells are clustered in the main process areas, near former building sites and along roads. Twelve monitoring wells are screened in the sandstone bedrock, while the remaining two monitoring wells, LL1mw-064 and LL1mw-065, are screened in unconsolidated glacial material. Groundwater flow patterns have been approximated from water level measurements in the monitoring wells, yet these monitoring wells do not fully characterize the complex flow system within the AOC (see Figures 2-2 and 2-3).

Unfiltered groundwater samples from each monitoring well were analyzed for explosives, propellants, VOCs, SVOCs, PCBs/pesticides, cyanide, and metals. Metals were also analyzed in filtered samples. Metals results for the filtered samples only are presented here due to high turbidity in the groundwater. Cyanide was analyzed only in the unfiltered samples. Table 4-24 provides the summary statistics and determination of SRCs for groundwater at LL 1. The complete analytical results by monitoring well are presented in Tables 4-47 through 4-52. Groundwater samples are considered on an AOC-wide basis; therefore, no aggregates are assigned.

Since the main focus of groundwater investigations at LL 1 has been to determine whether contaminants in soil and sediment are migrating to the groundwater over time, it is important to examine changes in analyte detections and concentrations over time between the Phase I and II RIs. Therefore, a brief summary of groundwater findings in the Phase I RI is presented in the following section.

4.6.1 Summary of Phase I Remedial Investigation Groundwater Results

During the Phase I RI, groundwater samples were collected from four monitoring wells (LL1mw-063, LL1mw-064, LL1mw-065, and LL1mw-067) and three temporary monitoring well points (LL1wp-067, LL1wp-068, LL1wp-069) and were analyzed for inorganics, explosives, VOCs, SVOCs, and pesticides/PCBs. Five of the wells/well points were installed on the eastern boundary of the AOC, while the others were installed around the main process areas. Analytical results for samples collected from monitoring well points are not discussed here due to concerns of their validity.

No explosive compounds were detected in any of the monitoring wells. All non-nutrient inorganic constituents were detected in at least one unfiltered groundwater sample. Arsenic, cobalt, manganese, and zinc were detected in the main process areas and at the east end of the AOC, in monitoring wells and monitoring well points near Criggy's Pond. All metals present in groundwater, with the exception of essential nutrients, were considered SRCs during the Phase I RI because no background criteria had been established. No VOCs, SVOCs, or pesticides/PCBs were detected in any of the monitoring wells.

4.6.2 Explosives and Propellants

Twelve explosive and propellant compounds were detected in groundwater samples collected during the Phase II RI. Distributions of selected explosives (1,3-DNB, 2,4,6-TNT, 2,4-DNT, HMX, and RDX) are presented in Figure 4-35. The most frequently detected compounds were 1,3-DNB (11 detections), 2,4,6-TNT (10 detections), 2,4-DNT (9 detections), RDX (9 detections), and 1,3,5-TNB (8 detections). Other detected compounds were 2,6-DNT, 2-Amino-4,6-DNT, 4-Amino-2,6-DNT, 3-nitrotoluene, HMX, nitroglycerin, and tetryl (Table 4-49). Though most detections were less than 1 µg/L, the highest concentrations of explosives and propellants were found at monitoring wells LL1mw-080, LL1mw-083, and LL1mw-084, which are all located within the main process areas. The concentrations detected in 2000 appear slightly higher than in 1999. The highest explosive concentration was for RDX (88 µg/L) at LL1mw-080 in 2000. Monitoring wells at LL1mw-083 and LL1mw-084 are located downgradient or cross-gradient (based on available water level measurements) of monitoring well LL1mw-080; however, monitoring well LL1mw-082 lies along the groundwater flow path between LL1mw-080 and LL1mw-084, and no explosives or propellants were detected at this site. This could indicate that the

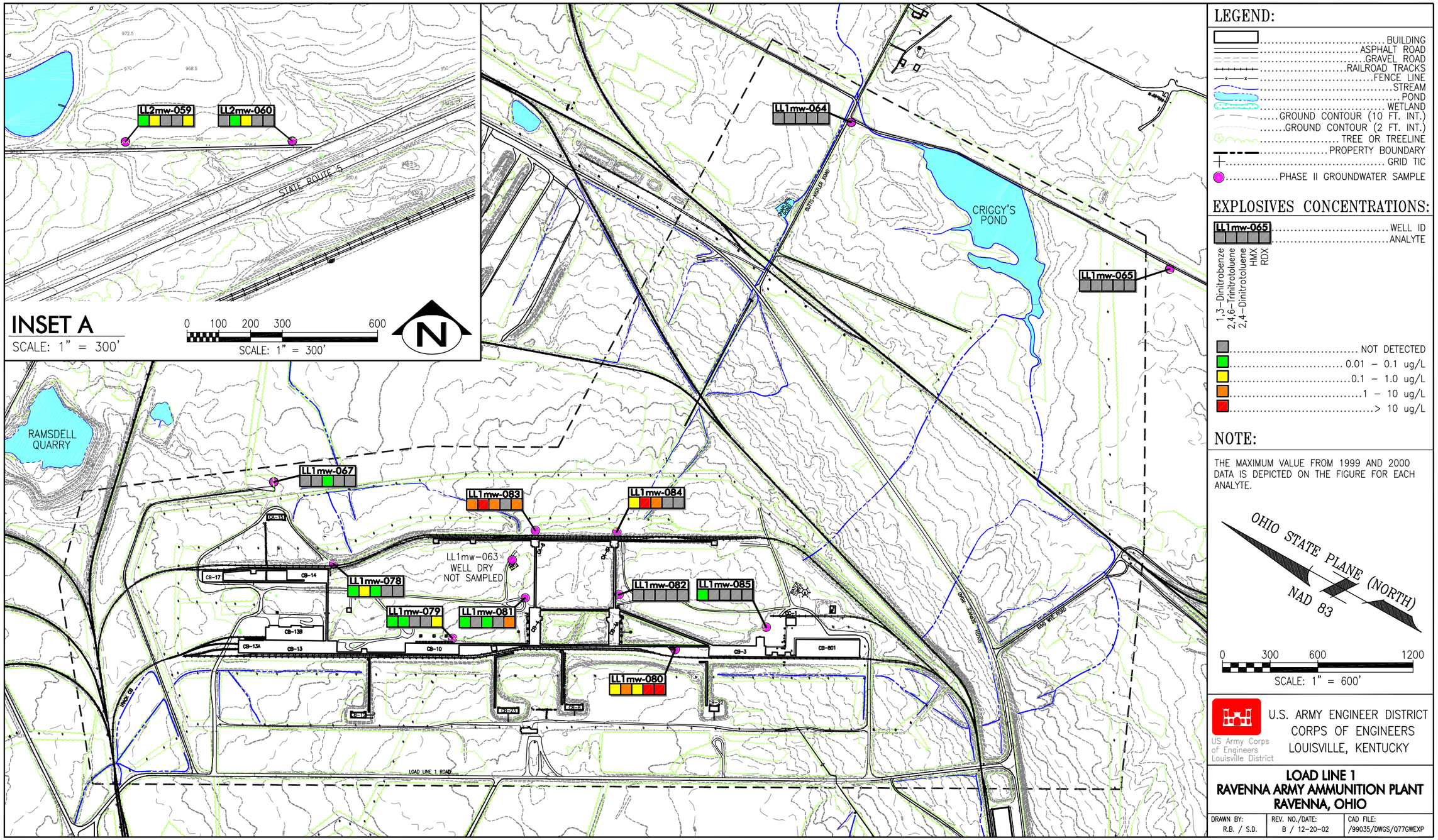


Figure 4-35. Explosive Concentrations in Groundwater at Load Line 1

occurrence of explosives in groundwater is a localized phenomenon. In addition, the Phase II monitoring wells were installed at sites where the Phase I RI showed maximum soil explosives contamination. Given the relatively low explosives concentrations in groundwater, these results suggest a very low vertical mobility of explosives from soils to groundwater.

There were no explosive or propellant compounds detected in monitoring wells LL1mw-064 and LL1mw-065 on the eastern edge of the AOC. Minor detections of two compounds were found in LL1mw-067, though in general, sampling of Phase I monitoring wells confirms previous findings.

4.6.3 Target Analyte List Metals and Cyanide

All groundwater collected was analyzed for TAL metals (Table 4-48) and cyanide (Table 4-49). Background criteria for metals were established prior to the Phase II efforts and thus only detections above background will be discussed. Exceptions to this are aluminum, antimony, arsenic, cadmium, cobalt, copper, selenium, and thallium, which were not detected in the background data set for filtered groundwater and are therefore automatically considered site-related.

In the filtered samples, the SRC metals most frequently detected were zinc (14 detections), cobalt (13 detections), aluminum (7 detections), and arsenic (4 detections). The distribution of these contaminants is presented in Figures 4-36 and 4-37. Other non-nutrient metals that were detected at least once include antimony, cadmium, copper, manganese, nickel, selenium, and thallium. Maximum detections for the four most frequently detected metals occurred at three monitoring wells: LL1mw-083 for cobalt (1999), LL1mw-084 for aluminum (1999) and zinc (1999), and at LL1mw-085 for arsenic (1999) (Table 4-47). These monitoring wells are all located near the main process areas. In the two monitoring wells at the eastern AOC boundary, (LL1mw-064 and LL1mw-065) cobalt and zinc were detected at concentrations slightly above the facility-wide background at LL1mw-065. The monitoring wells at this boundary are screened in unconsolidated materials, while all other monitoring wells are screened in bedrock.

Zinc was detected above background in the two monitoring wells located between LLs 1 and 2, LL2mw-059 and LL2mw-060 (Table 4-47). The highest zinc detection in these monitoring wells occurred at LL2mw-060 during the 2000 sampling event, at 13 times the background criterion. Zinc concentrations increased in every monitoring well where detected, except in LL1mw-083 and -085, between the 1999 and 2000 sampling events (see Figure 4-38). The greatest percent increase in zinc, approximately 1,400%, occurred at LL1mw-080. An explanation for the increase cannot be determined from available data.

None of the Phase I groundwater samples were filtered, and, as such, a valid comparison of metals concentrations over time for Phase I monitoring wells could not be made.

Cyanide was analyzed in all unfiltered groundwater samples. The only detection occurred in 1999 at monitoring well LL1mw-081, adjacent to Building CB-4, at a concentration of 5.1 µg/L. No background criterion exists for cyanide.

4.6.4 Semivolatile Organic Compounds, Volatile Organic Compounds, and Polychlorinated Biphenyls

All groundwater collected was analyzed for VOCs, SVOCs, and pesticides/PCBs. The SVOC bis(2-ethylhexyl)pthalate was detected in only 1999 in station LL1mw-079 (Table 4-52). 2,4-Dinitrotoluene was also observed in both the 1999 and 2000 samples, but the explosives method for 2,4-DNT is used to quantify this compound (see Section 4.6.2).

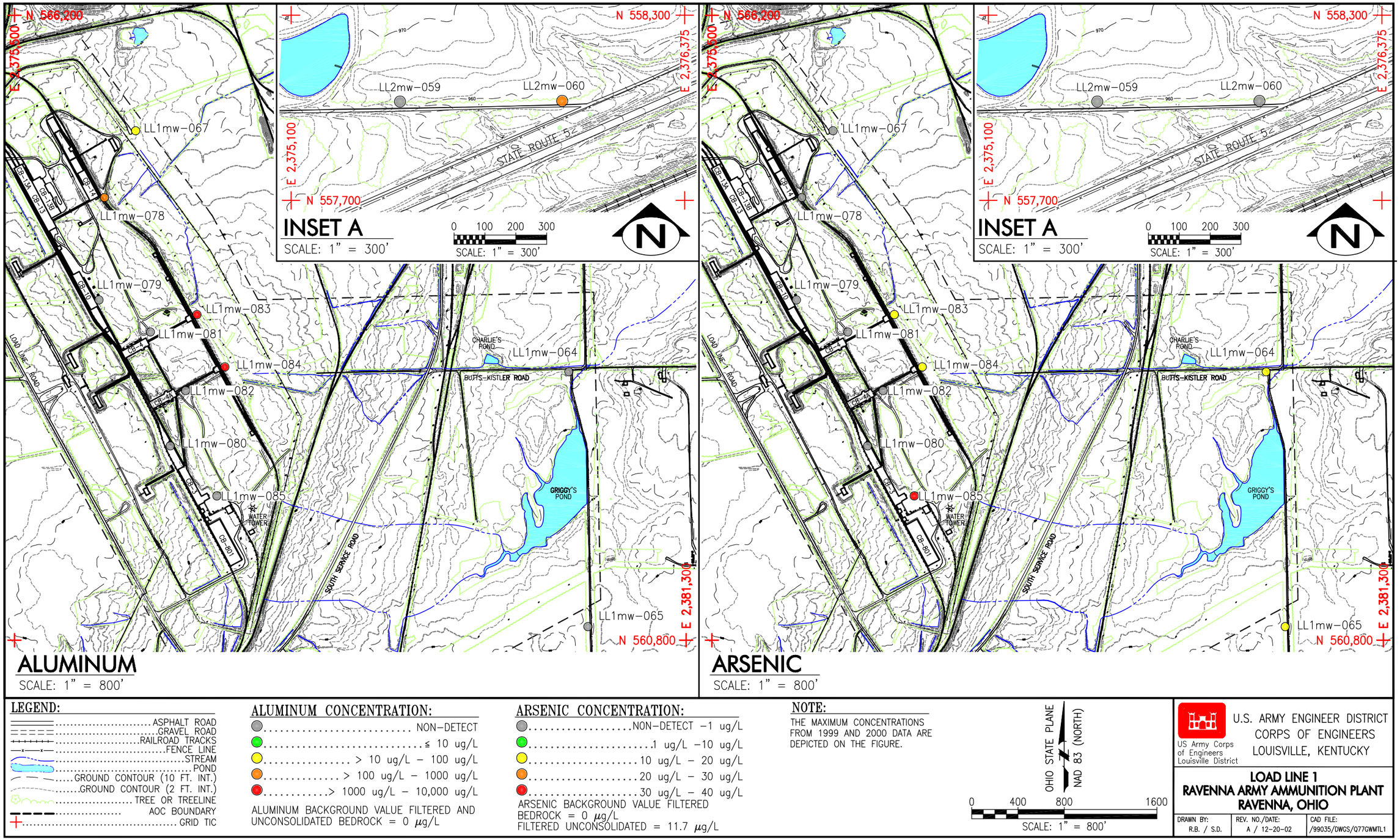
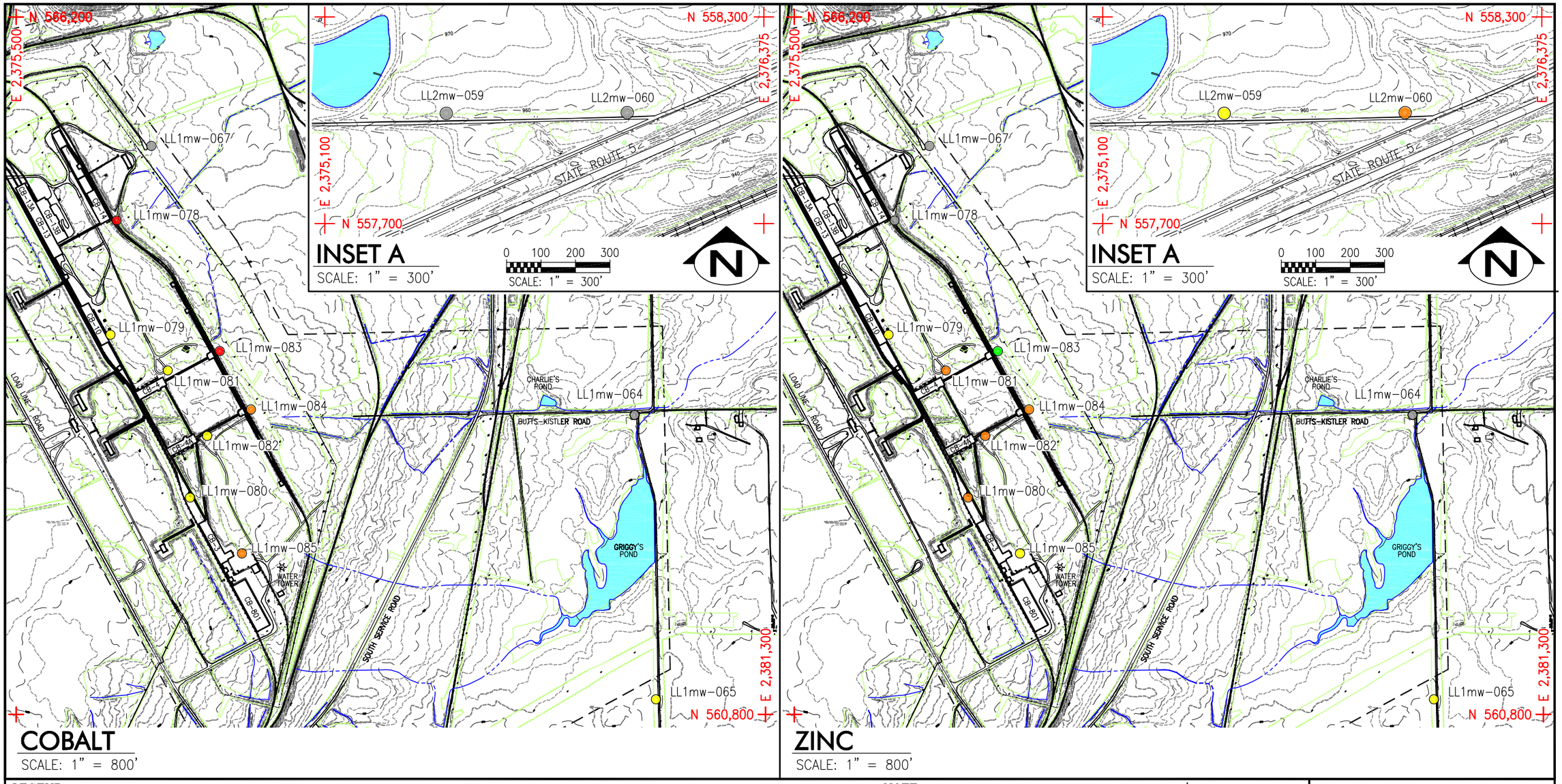


Figure 4-36. Distribution of Aluminum and Arsenic in Groundwater at Load Line 1



LEGEND:

- ASPHALT ROAD
- GRAVEL ROAD
- RAILROAD TRACKS
- FENCE LINE
- STREAM
- POND
- GROUND CONTOUR (10 FT. INT.)
- GROUND CONTOUR (2 FT. INT.)
- TREE OR TREELINE
- AOC BOUNDARY
- GRID TIC

COBALT CONCENTRATION:

- NON-DETECT
- ≤ 1 ug/L
- > 1 ug/L – 10 ug/L
- > 10 ug/L – 100 ug/L
- > 100 ug/L – 1,000 ug/L

COBALT BACKGROUND VALUE FILTERED AND UNCONSOLIDATED BEDROCK = 0 ug/L

ZINC CONCENTRATION:

- NON-DETECT OR ≤ BACKGROUND
- > 1 TO 2 TIMES BACKGROUND
- > 2 TO 5 TIMES BACKGROUND
- > 5 TO 20 TIMES BACKGROUND
- > 20 TIMES BACKGROUND

ZINC BACKGROUND VALUE FILTERED BEDROCK = 52.3 ug/L
FILTERED UNCONSOLIDATED = 60.9 ug/L

NOTE:
THE MAXIMUM CONCENTRATIONS FROM 1999 AND 2000 DATA ARE DEPICTED ON THE FIGURE.

OHIO STATE PLANE NAD 83 (NORTH)
0 400 800 1600
SCALE: 1" = 800'

US Army Corps of Engineers Louisville District

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
LOUISVILLE, KENTUCKY

LOAD LINE 1
RAVENNA ARMY AMMUNITION PLANT
RAVENNA, OHIO

DRAWN BY:	REV. NO./DATE:	CAD FILE:
R.B. / S.D.	A / 12-20-02	/99035/DWGS/Q77GWMTL2

Figure 4-37. Distribution of Cobalt and Zinc in Groundwater at Load Line 1

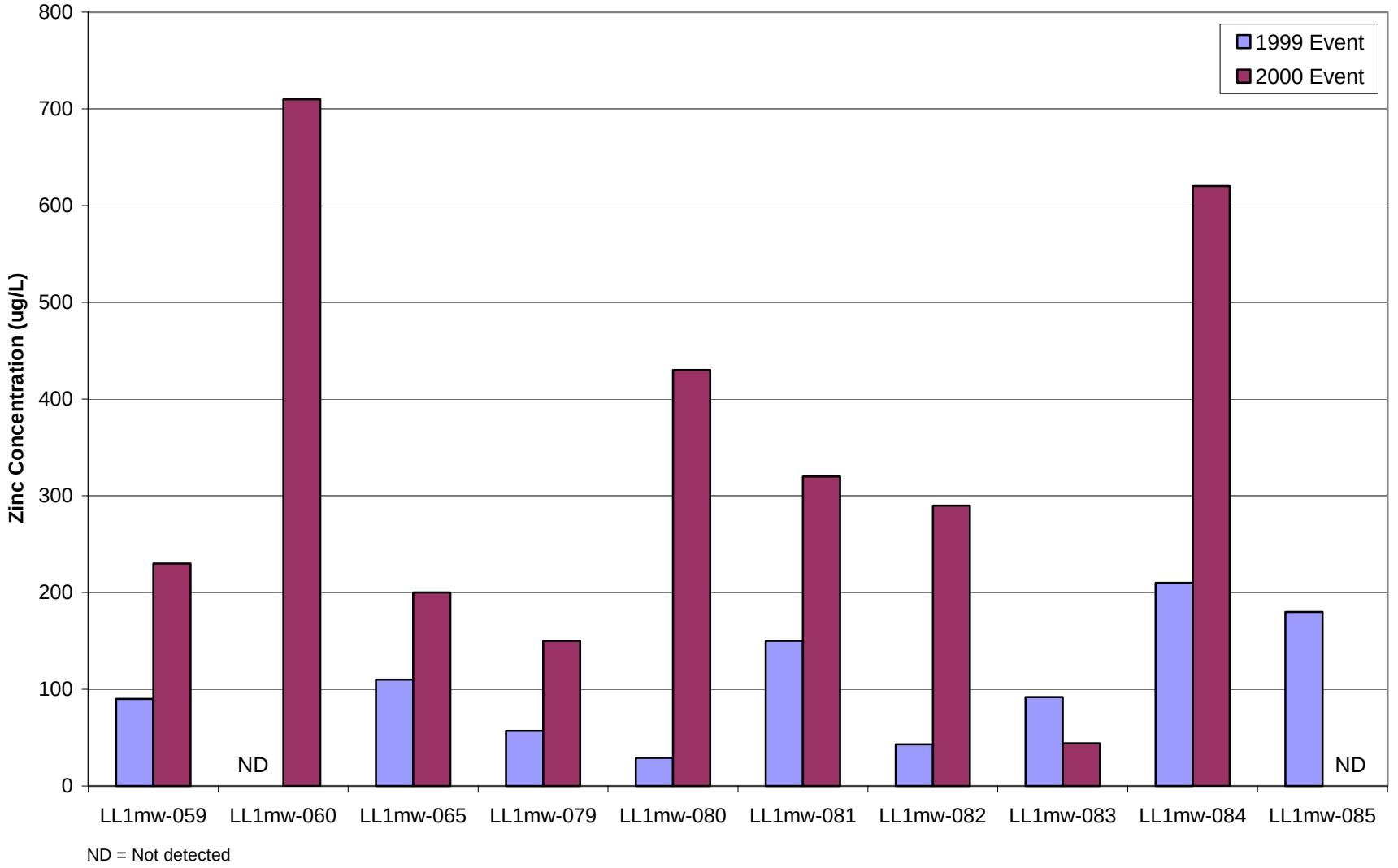


Figure 4-38. Changes in Zinc Concentrations in Filtered Groundwater at Load Line 1 from 1999 to 2000

Three VOCs—chloroform, methylene chloride, and toluene—were detected in at least one sample. The maximum concentrations of these compounds were found in three monitoring wells, as follows: chloroform at LL1mw-079 (1999), methylene chloride at LL1mw-067 (2000), and toluene at the upgradient LL2mw-060 (2000). Minor detections of these compounds also occurred at LL2mw-059, LL1mw-064, LL1mw-080, LL1mw-082, LL1mw-084, and LL1mw-085 (Table 4-52).

Only one pesticide/PCB was detected in groundwater at LL 1. 4,4'-DDE was detected in 2000 at a concentration of 13 µg/L at station LL1mw-083, just downgradient of Building CA-6. No other pesticides/PCBs were detected in groundwater (Table 4-50).

4.6.5 Summary of Groundwater Results

The interpretation of chemical data obtained from LL 1 groundwater is summarized as follows:

- Isolated detections and relatively low explosives concentrations in monitoring wells near the main process areas indicate that wide-spread migration of explosives from soil to groundwater has not occurred.

- Monitoring wells within the main process areas appear to have been impacted by site-related metals contamination. However, concentrations of metals above background generally were not observed at the perimeter groundwater locations sampled during the Phase II RI.

- Zinc concentrations have increased for most monitoring wells in which zinc was detected between the 1999 and 2000 sampling events. No clear time trends exist for other metals in groundwater.

- Minor detections of SVOCs and PCBs/pesticides only in some monitoring wells near the main process areas indicate that migration of these contaminants from soil to groundwater has not occurred.

- Three VOCs— chloroform, methylene chloride, and toluene—were detected in several monitoring wells. However, two of these compounds were also detected in trip blank samples, and therefore, the presence of these VOCs may or may not be related to LL 1 activities.

4.7 SEWER SYSTEM CHARACTERIZATION

The storm and sanitary sewer lines in the production area of LL 1 were characterized with biased sampling and with a camera survey of drainage pipes. The planned pipe lengths, insertion points, and sampling locations were presented in the SAP Addendum No. 2 (USACE 2000b). However, the SAP acknowledged that the suitability of all planned locations was not known prior to the sampling effort. Actual survey and sampling locations along the two systems are depicted in Figure 3-3. Of the 28 planned locations for sampling at inlets, outfalls, and collection points, access was possible; however, material sufficient for sampling was present only in five locations. Other planned sample locations were either devoid of sediment, obstructed with debris (ballast, slag, and dirt that had sloughed into the inlets; brush; some inert demolition debris, such as brick or concrete), or could not be accessed because of broken or rusted covers. Figure 4-39 shows the typical condition of the storm sewer inlets at the time of the field investigation. Two manholes designated for sampling could not be located, probably because they had been unintentionally destroyed during the demolition of LL 1 buildings. Two accessible locations not in the original SAP— storm sewer inlet B8 and sanitary manhole 213—were added to the sampling effort to replace inaccessible points in the sewers.

Figure 4-39. Condition of Storm Sewer Inlet at LL1sd-310

4.7.1 Sewer Line Video Survey Results

The camera survey was conducted along the main trunk lines of the storm and sanitary sewer systems near the melt-pour complex and at the main exit points from the two systems. Each of the major surface water drainage outlets, which receive effluent from these systems, was evaluated in part. The camera survey log, included as Appendix M of this report, presents the detailed findings of the camera survey.

4.7.1.1 Storm sewers

Approximately 488 m (1,600 lin ft) of the storm sewers were examined with the mobile video camera. Many of the shallow storm sewer inlets were found to be obstructed with debris, including soil and ballast/slag basins, brush/leaves, and some minor inert demolition debris (brick, concrete). However, the pipes were found to be dry and generally in good to excellent condition. Hairline cracks, calcium deposits, and root filaments were commonly observed in the pipes. Storm sewer lines were constructed of 15-in., 24-in., or 30-in. vitrified clay pipe. Heavy debris filled the pipe between manholes B2 and B1 and manholes B3 and B4. The pipe between manhole B3 and inlet B8, east of Building CB-4, was also heavily laden with debris and broken pipe. Between inlets A2 and A3 north of Building CB-10, voids in the pipe were observed. Broken pipe was also observed between manhole A1 and the headwall east of the production area. A deformed section of pipe was observed between manholes B3 and B2, underneath the road immediately north of Building CB-4.

The camera survey revealed no visual evidence of accumulated explosives residues, OEW, or other sediment in any of the pipes evaluated. Obstructions with rocks, branches, and demolition debris were common near the inlet and outlet ends of several pipes.

4.7.2 Water Samples

Two unfiltered water samples were collected in order to characterize the sewer systems. LL1-301 was collected from the sanitary sewer cleanout at the northwest corner of LL 1, a major collection point for sanitary effluent from the load line. LL1-309 was collected from the storm sewer manhole B1 near Outlet B, east of the melt-pour complex. No corresponding sediment could be collected at this location. Other planned sampling locations were either inaccessible or dry at the time of the sampling effort. The water samples were analyzed for explosives, propellants, cyanide, VOCs, SVOCs, pesticides/PCBs, and TAL metals. The complete analytical results for these samples are presented in Tables 4-43 through 4-47 and on the data CD that accompanies this report.

4.7.2.1 Explosives and propellants

Five explosive compounds were present above detection levels at station LL1-309: TNT at 0.079 µg/L, 2-amino-4,6,-DNT at 0.026 µg/L, 4-amino-2,6-DNT at 0.046 µg/L, HMX at 0.0009 µg/L, and RDX at 0.0077 µg/L. Neither explosives nor propellants were detected in surface water sample LL1-301. Figure 4-40 shows the distributions of key compounds in these two samples.

4.7.2.2 Inorganics and cyanide

A total of 10 metals were detected in the two surface water samples. Antimony, cobalt, copper, and thallium were detected only in station LL1-301 at 0.0038, 0.0023, 0.0015, and 0.002 µg/L, respectively. Selenium was detected only in LL1-309 at 0.0065 µg/L. Arsenic, cadmium, mercury, and silver were not present above detection levels in either water sample. The highest concentrations of aluminum (1.8 µg/L), iron (16.1 µg/L), manganese (0.79 µg/L), nickel (0.0086 µg/L), vanadium (0.005 µg/L), and zinc (0.0057 µg/L) were observed in water collected at LL1-301. The highest concentrations of barium

(0.081 µg/L), chromium (0.0028 µg/L), lead (0.012 µg/L), and magnesium (5.4 µg/L) were found at LL1-309. Concentrations of these 10 metals were very similar between the two samples. The maximum concentration of any metal was 16.1 µg/L for iron in LL1-301. No background data set is available for comparison to these samples. Figure 4-40 shows the distributions of key compounds in these two sewer system samples.

4.7.2.3 Organic compounds

There were no detections of VOCs or SVOCs in water sample LL1-309. LL1-301 had low estimated concentrations of bis(2-ethylhexyl)phthalate (0.0032 mg/L), chrysene (0.0011 mg/L), fluoranthene (0.0019 mg/L), and pyrene (0.0014 mg/L). No VOCs were present above detection levels at LL1-301. Figure 4-41 illustrates the distribution of organic compounds in these two sewer system samples.

4.7.3 Sediment Samples

Five sediment samples were collected—two from the sanitary sewers (LL1-295 and LL1-301) and three from storm sewer inlets B8, C6, and D7 (LL1-306, LL1-308, and LL1-310). Note that both sediment and surface water were collected from location LL1-301. Sediment was either not present or not accessible at the other planned locations.

One sediment sample from the sanitary sewer (LL1-295) was analyzed for the full suite of analytes (including hexavalent chromium). LL1-301, LL1-306, LL1-308, and LL1-310 were analyzed for explosives, propellants, hexavalent chromium, and TAL metals only. All ex-situ samples were analyzed for metals using XRF. The analytical results for these samples are presented in their entirety in Tables 4-38 through 4-42 and on the data CD that accompanies this report.

4.7.3.1 Explosives and propellants

In the sanitary sewer sediment samples (LL1-295 and LL1-301), seven explosives and one propellant were present. Nitrocellulose was detected in LL1-295 at 4.2 mg/kg. Low levels of 1,3,5-TNB, 1,3-DNB, TNT, 2,4-DNT, 2-amino-4,6-DNT, and 4-amino-2,6-DNT were detected in LL1-295. Field analyses for explosives resulted in a maximum concentration of 0.19 mg/kg TNT. The concentrations of 1,3,5-TNB, 1,3-DNT, and 2,4-DNT in this sample (0.12, 0.054, and 0.31 mg/kg, respectively) were the maximum values detected in sewer sediments. 1,3-DNB, nitrobenzene, and tetryl were detected at LL1-301 at 0.21, 0.23, and 0.57 mg/kg, respectively. The occurrence of tetryl in this sample represents the maximum concentration of this explosive in the sewer sediments. The field explosives result for LL1-301 was 0.03 mg/kg for TNT. LL1-300 was not analyzed in the fixed-base laboratory because the field results for TNT/RDX were non-detects. Figure 4-42 shows the distributions of key compounds in these sediment samples.

Among the storm sewer sediment samples (LL1-306, LL1-308, and LL1-310), explosives and nitrocellulose were detected. The maximum concentration of nitrocellulose was 5.8 mg/kg in LL1-310 at inlet D7 (which had a corresponding field result of 0.01 mg/kg TNT). No explosives were detected in LL 1, although the field result for this sample was 0.45 mg/kg. Low concentrations of nitrocellulose (2.1 mg/kg) were detected at station LL1-308. However, LL1-306 and LL1-310 each had TNT (1.2 and 0.11 mg/kg, respectively). In addition, LL1-306 contained 2,6-DNT (0.13 mg/kg), 2-amino-4,6-DNT (0.44 mg/kg), and 4-amino-2,6-DNT (0.75 mg/kg).

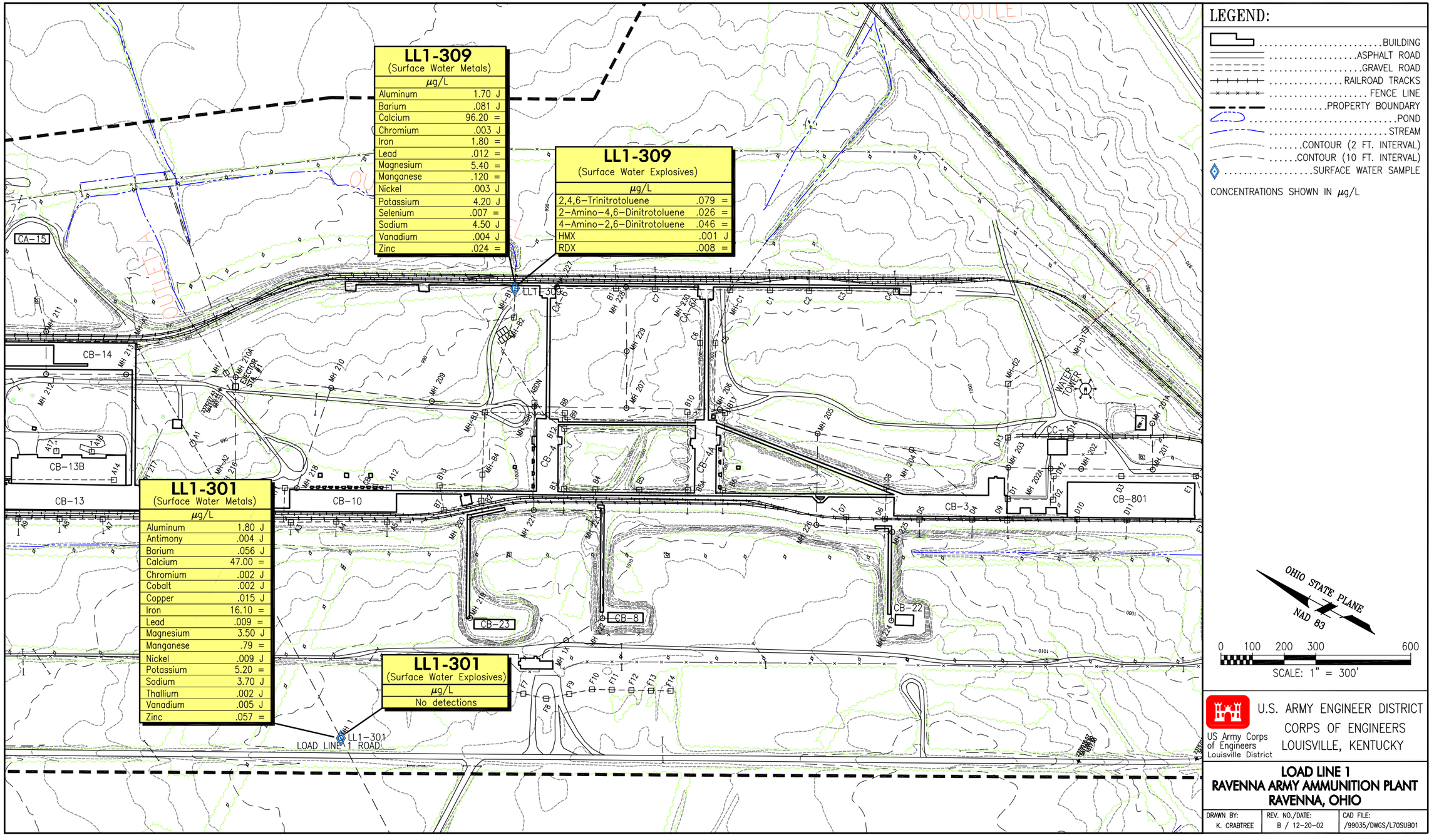


Figure 4-40. Metals and Explosives in Storm and Sanitary Sewer Line Surface Water at Load Line 1

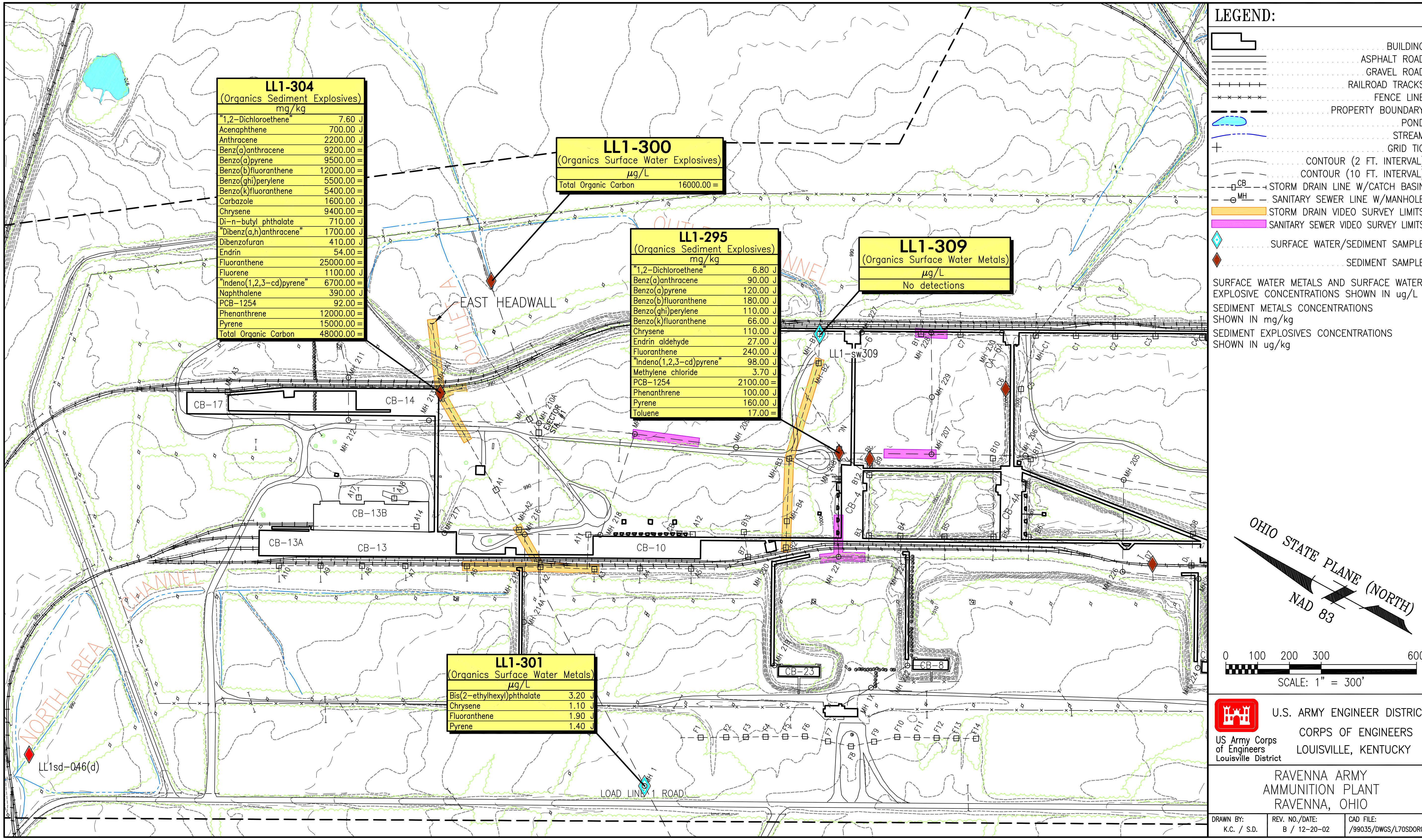


Figure 4-41. Organics in Storm and Sanitary Sewer Lines Surface Water and Sediment Locations

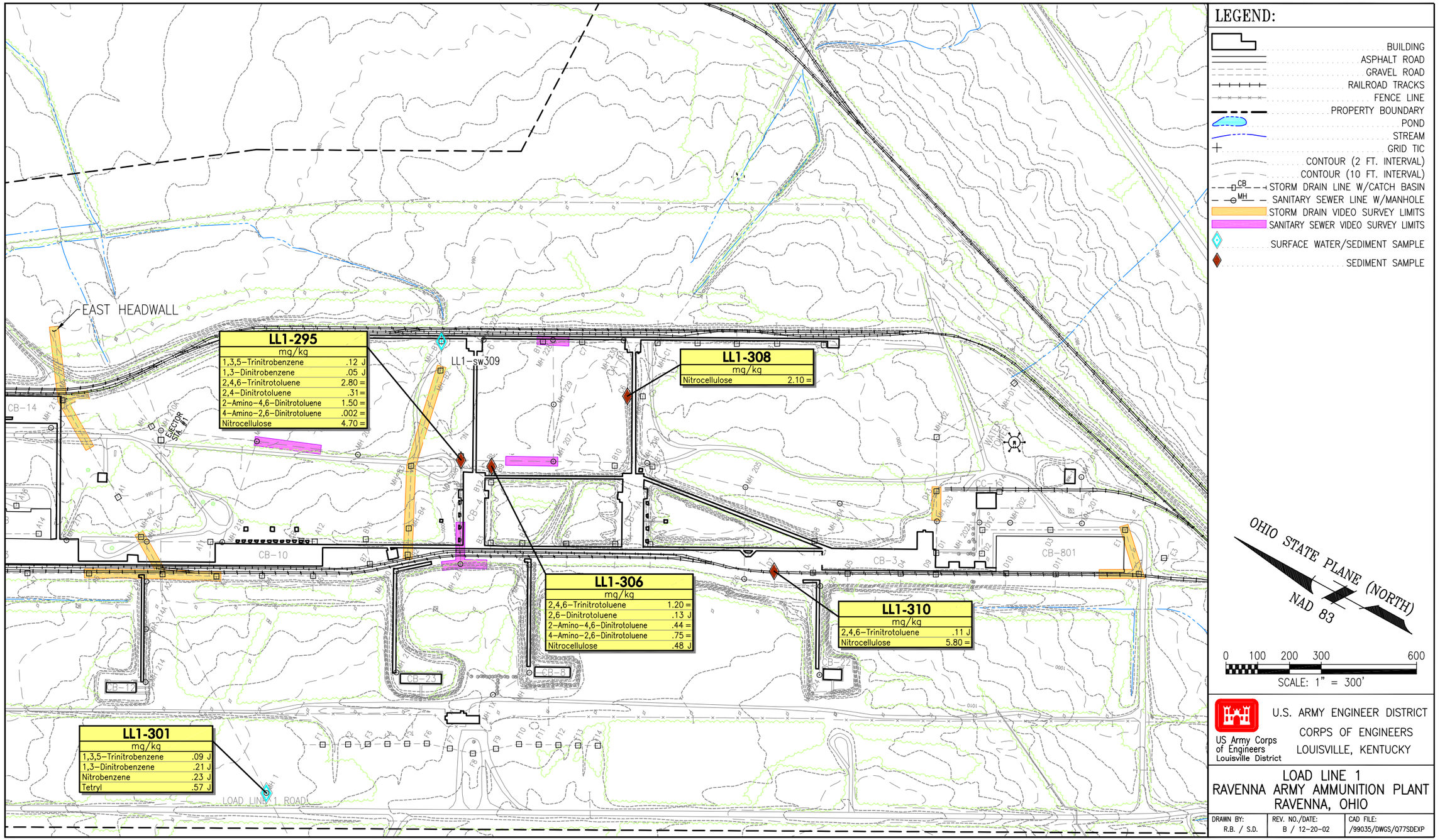


Figure 4-42. Explosives and Propellants in Storm and Sanitary Sewer Lines Sediment Sample Locations

4.7.3.2 Inorganics and cyanide

Cyanide and hexavalent chromium were not present above detection levels in any sewer sediment sample. Twenty of the TAL metals were commonly detected in the five sewer sediment samples. Antimony, beryllium, and silver were less commonly observed. Antimony was present in LL1-310 at 3.6 and 185 mg/kg, respectively. Silver was present in LL1-295 (3 mg/kg), LL1-308 (0.33 mg/kg), and LL1-310 (0.19 mg/kg).

The maximum concentrations for arsenic (39 mg/kg), barium (276 mg/kg), copper (638 mg/kg), lead (306 mg/kg), mercury (1.3 mg/kg), and zinc (2,480 mg/kg) were observed at LL1-295 in manhole 208 of the sanitary sewer system. Maximum values for cadmium and iron (3.5 and 117,000 mg/kg, respectively) came from LL1-308, at storm sewer inlet C6, and for chromium and cobalt (72.8 and 11.1 mg/kg) from LL1-310. Figure 4-43 shows the distributions of key analytes in these sediment samples.

4.7.3.3 Organic compounds

VOCs, SVOCs, and pesticides/PCBs were evaluated in LL1-295 only. Figure 4-40 illustrates the distribution of these compounds in the sediment samples VOCs 1,2-dichloroethane, methylene chloride, and toluene were present in LL1-295 at 0.0068, 0.0037, and 0.017 mg/kg, respectively. There were no other detections of VOCs in this sample.

Ten PAHs were present in LL1-295, in concentrations ranging from 0.066 mg/kg benzo(k)fluoranthene to 0.24 mg/kg fluoranthene.

There was a detectable quantity of Aroclor-1254 (2.1 mg/kg) at LL1-295. Endrin aldehyde was present at 0.027 mg/kg in LL1-295. Although they are not related to the explosives manufacturing process, pesticides were commonly used for weed control throughout RVAAP and have been identified in LL 1 surface soils since the Phase I RI. PCBs were identified in Phase I surface soil samples throughout the load line, with Aroclor-1254 concentrations as high as 44 mg/kg at Building CB-3A.

4.7.4 Sewer Line Survey Summary

Two water samples were collected from the sanitary sewer drain system, one from the northwest corner of LL 1, which is a major collection point for sanitary effluent from the load line, and the other from east of the melt-pour complex. Explosives were detected in low concentrations (<0.1 mg/L) in the sample from east of the melt-pour complex. Metals were detected in both water samples, but no background data set is available for comparison. The highest concentration detected was 16.1 mg/L for iron from the northwest corner of the load line. This location also showed very low estimated concentrations (<0.01 mg/L) of SVOCs.

Five sediment samples were collected and analyzed from the sanitary sewers and storm drain inlets. Explosives and propellants were detected in all of the sediment samples sent to the fixed-base laboratory based on explosives field screening. Cyanide and hexavalent chromium were not detected in any sample. TAL metals were commonly detected in the sewer sediment samples.

Only one sediment sample was analyzed for organic compounds. Isolated VOCs were detected at concentrations less than 0.01 mg/kg. PAHs were detected in this sample with concentrations ranging from 0.066 to 0.24 mg/kg. Pesticides and PCBs were also detected in this sample. The pesticides were commonly used for insect control throughout RVAAP, but the specific sources of the PAHs are not known.

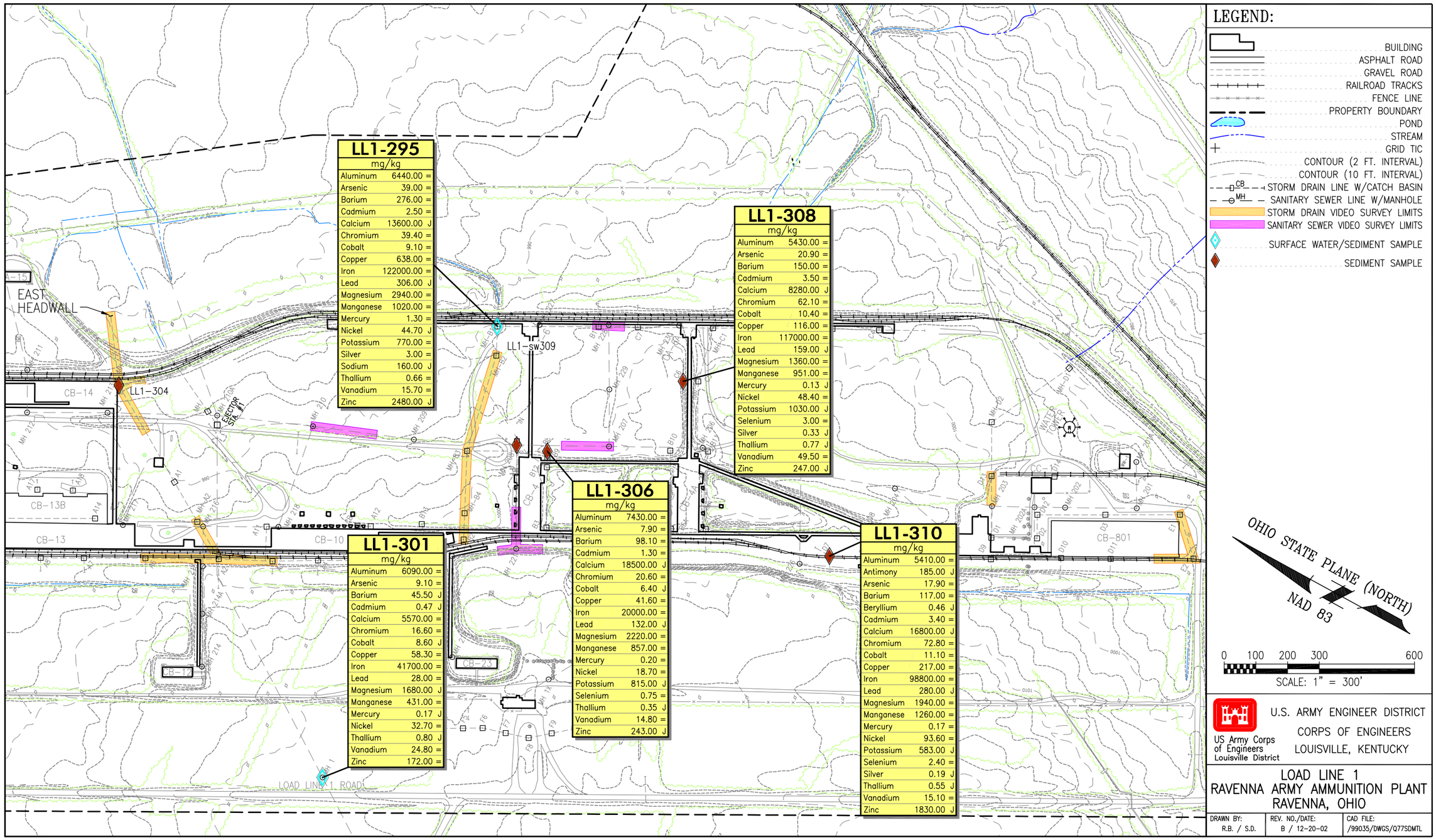


Figure 4-43. Metals in Storm and Sanitary Sewer Lines Sediment Sample Locations

4.8 ORDNANCE AND EXPLOSIVES ANOMALY AVOIDANCE SURVEY SUMMARY

All field sampling activities during the Phase II RI at LL 1 were performed under escort of a certified ordnance and explosives (OE)/unexploded ordnance (UXO) technician. OE visual surface reconnaissance operations consisted of visually inspecting each sampling location and its surrounding area. As intrusive operations were conducted, the area was checked with a Model 52 Schonstedt magnetometer prior to digging, as shown in Figure 4-44. The Schonstedt magnetometer is capable of detecting ferrous objects only; there was no indication, based on historical data, that non-ferrous UXO/OEW was present at LL 1.

Live or inert explosive ordnance items were not encountered at LL 1. Several suspicious items were examined but were determined to be non-OE scrap. No magnetic anomalies were noted during intrusive operations. Appendix N provides the detailed contacts encountered each day and their disposition.

Figure 4-44. Use of Schonstedt Magnetometer near Building CA-6A

4.9 COMPARATIVE EVALUATION OF FIELD AND LABORATORY ANALYSES FOR EXPLOSIVES AND METALS

4.9.1 Explosives

This section presents a comparison of the TNT and RDX field screening analysis to analytical results determined by the off-site laboratory.

4.9.1.1 Field sampling and analysis protocol

Samples were collected from surface, subsurface, and sediment locations in and around LL 1. All surface soil (0 to 1 ft depth) samples were composite samples from three individual sampling locations positioned in a 3-ft equilateral triangle pattern in the sampling area. Subsurface samples were collected at discrete locations but were composited over the associated depth interval.

Field screening analysis of TNT and RDX in surface and subsurface soil and sediment samples were performed through implementation of colorimetric methods developed by CRREL.

The procedure for measuring TNT concentrations in soils involves a liquid extraction of the explosives from the soil matrix with acetone and the formation of a color complex with sodium sulfite and potassium hydroxide. Absorbance is measured at a wavelength of 540 nm. For RDX, all nitrate must be removed from the extract, then glacial acetic acid and zinc powder are added. A complexing agent (NitriVer3) is added to the sample, and absorbance is measured at 507 nm. In both methods, percent absorbance is correlated to concentration.

Off-site laboratory determinations for TNT and RDX were performed by solvent extraction and analysis by liquid chromatographic techniques (SW846-8330).

All surface soil and sediment samples were field analyzed with colorimetric methods for TNT and RDX. The purpose of the analysis was to define the extent of surface soil contamination with respect to these explosive compounds. Field colorimetry was also used as a screening method to reduce the number of samples that required fixed-base laboratory analysis for explosives. The strategy can be summarized as follows:

- If the field method indicated TNT was present at >/= 1 ppm, the sample was sent to the off-site laboratory for analysis of explosives and propellants;
- If the concentration of TNT was < 1 ppm, the analysis for RDX was performed;
- If RDX was present at a concentration >/= 1 ppm, the sample was sent to the off-site laboratory for analysis of explosives and propellants;
- In addition, 15% of the samples showing non-detects of TNT or RDX were sent to the off-site laboratory for analysis of explosives; and
- All samples collected, regardless of XRF results, were submitted for TAL metals analysis.

4.9.1.2 TNT comparison

TNT field screening and laboratory results are presented in Table 4-13. Starting with the premise that the laboratory results are accurate relative to the presence or absence of TNT in the sample, the field

screening values provide 1% false negative information and 35% false positive information. Consideration of values less than 2 ppm as equivalent reduces the false positive rate to 19% for field screened samples having TNT values greater than 2 ppm. Comparison of positive TNT data where both laboratory and field screening values were greater than 2 ppm provided a correlation coefficient of 0.252 (Figure 4-45).

Review of laboratory results for associated explosive compounds (i.e., trinitrobenzene, dinitrotoluenes, nitrotoluenes, nitrocellulose, etc.) indicates there were interferences on the field screening determinations from these compounds. Elevated levels of nitrocellulose did not appear to influence the TNT screening value. The low levels of other nitro-compounds observed in these samples did not exhibit any impact on the TNT screening levels.

Figure 4-45 plots field screening data versus laboratory data for TNT. The limited data available for comparison provides a correlation coefficient of 0.252. The disparity between quantified field screening and laboratory values is believed to be a result of sample heterogeneity and incomplete mixing of individual subsamples prior to analysis in the field. It is believed the field screening has provided a valid representation of the presence or absence of TNT above 1-2 ppm; however, quantified field results indicate a low bias relative to laboratory analyses and should not be interpreted as viable values for this study.

4.9.1.3 RDX comparison

RDX field screening and laboratory results are presented in Table 4-13. Starting with the premise that the laboratory results are accurate relative to the presence or absence of RDX in the sample, results indicate 0% false negative information and 8% false positive information. Eighty-six percent of the RDX values were confirmed to be below 1 ppm and 6% were confirmed to be greater than 1 ppm. Due to the limited positive RDX data available, correlation coefficient information was not feasible. It is believed the field screening has provided a valid representation of the presence or absence of RDX above 1 ppm; however, these few comparisons do not provide confidence in the field screening quantified results.

Review of laboratory results for associated explosive compounds (i.e., HMX, nitrocellulose, nitroguanidine, etc.) does not indicate any obvious impacts on the field screening determinations from these compounds. Elevated levels of nitrocellulose did not appear to influence the RDX screening value. Low levels of HMX and nitroguanidine observed in these samples did not exhibit an impact on the RDX screening levels.

4.9.2 Field Metals Analysis by X-Ray Fluorescence

Two types of field XRF measurements were made at LL 1: in situ and ex situ. In-situ measurements were made at each of the surface soil sampling locations. The center and the vertices of an equilateral triangle with 0.9 m (3 ft) sides were cleared of vegetation and surface debris at each sampling location. XRF measurements were collected at the center and the vertices of the triangle. Thus, there were four in-situ XRF measurements made at each surface soil sampling location. A Niton 700 Series XRF instrument was used, employing a 10-millicurie ^{109}Cd source with 60-second count times, for both in-situ XRF and ex-situ field laboratory measurements.

Ex-situ XRF measurements were made in a field laboratory by EPA method SW846 6200 on a split of each sample that was sent to the laboratory for analysis by inductively couple plasma (SW846 6010) or atomic absorption methods (SW846 7471). Surface and subsurface soil and dry ditch sediment samples were hand augered from the center of the sampling location to a depth of 30.5 cm (1 ft). Each sample was placed in a stainless-steel bowl and thoroughly homogenized. Aliquots for the ex-situ XRF and the usual laboratory analyses were extracted from the homogenized mixture.

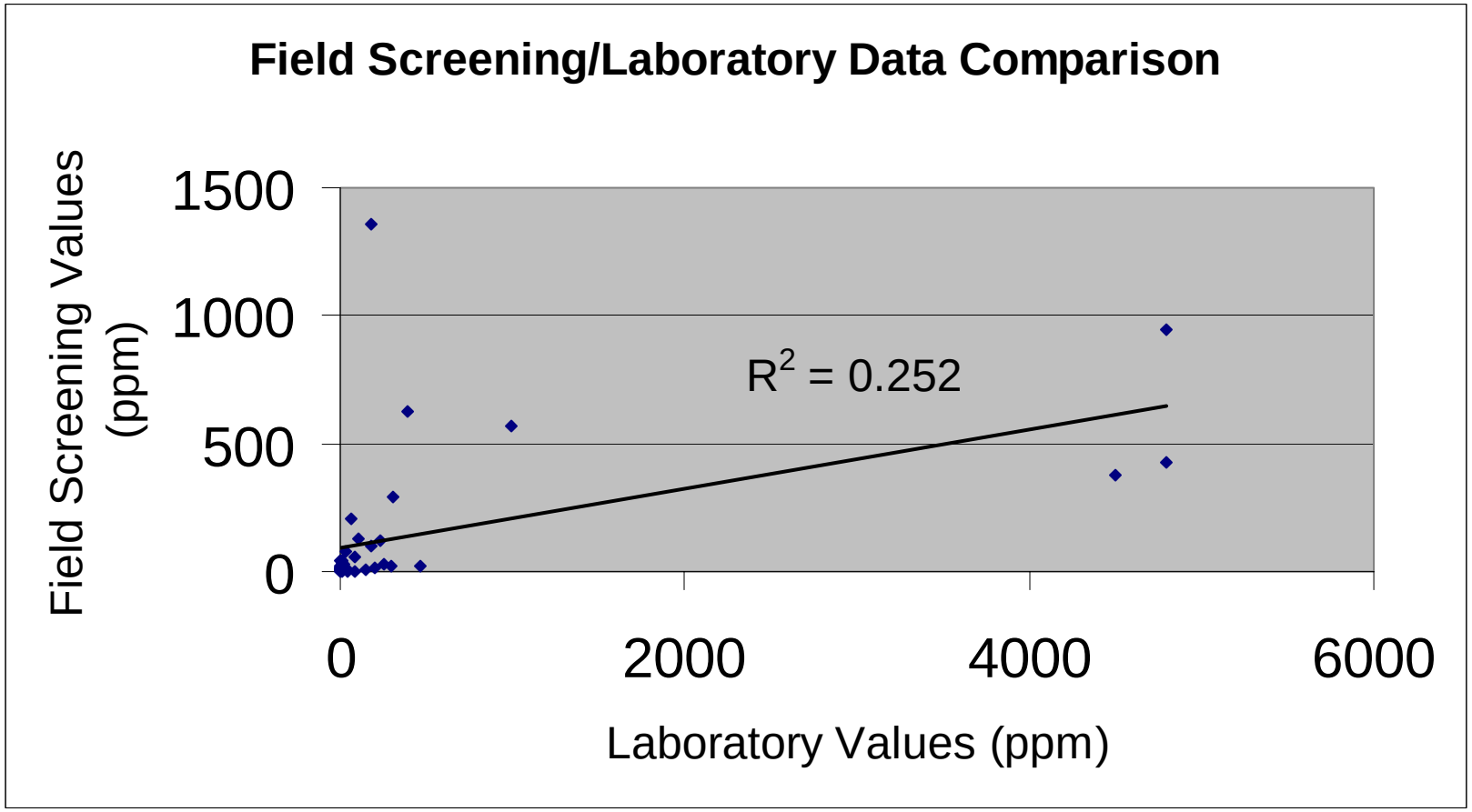


Figure 4-45. Comparison of Positive TNT Data with Detection Limit Set to ≥2 ppm

The XRF measurements were made to see if this technique would produce results comparable to the usual laboratory methods. If the XRF and usual laboratory methods produce comparable results, the more rapid and less expensive XRF method could be used in the future to define the extent of contamination. The ex-situ measurements should be directly comparable to the laboratory measurements. The ex-situ and laboratory samples were splits from the same homogenized source material. Differences between the ex-situ XRF and laboratory results should primarily reflect differences in the two methods used on the same material.

The in-situ XRF measurements were made at four points on and near the location from which the laboratory and ex-situ XRF samples were taken. Differences among these four in-situ XRF results represent spatial variability in the surface concentrations of the metals as well as variability of the XRF instrument. The in-situ results may be compared to the ex-situ results to compare the variability of metal concentrations on the soil surface to the concentration from a homogenized soil interval based on the XRF method. Results from the in-situ method may be compared to the usual laboratory results to see how characterization by field XRF would compare to the conclusions drawn from the usual laboratory results. All in-situ and ex-situ XRF results are listed in Appendix J.

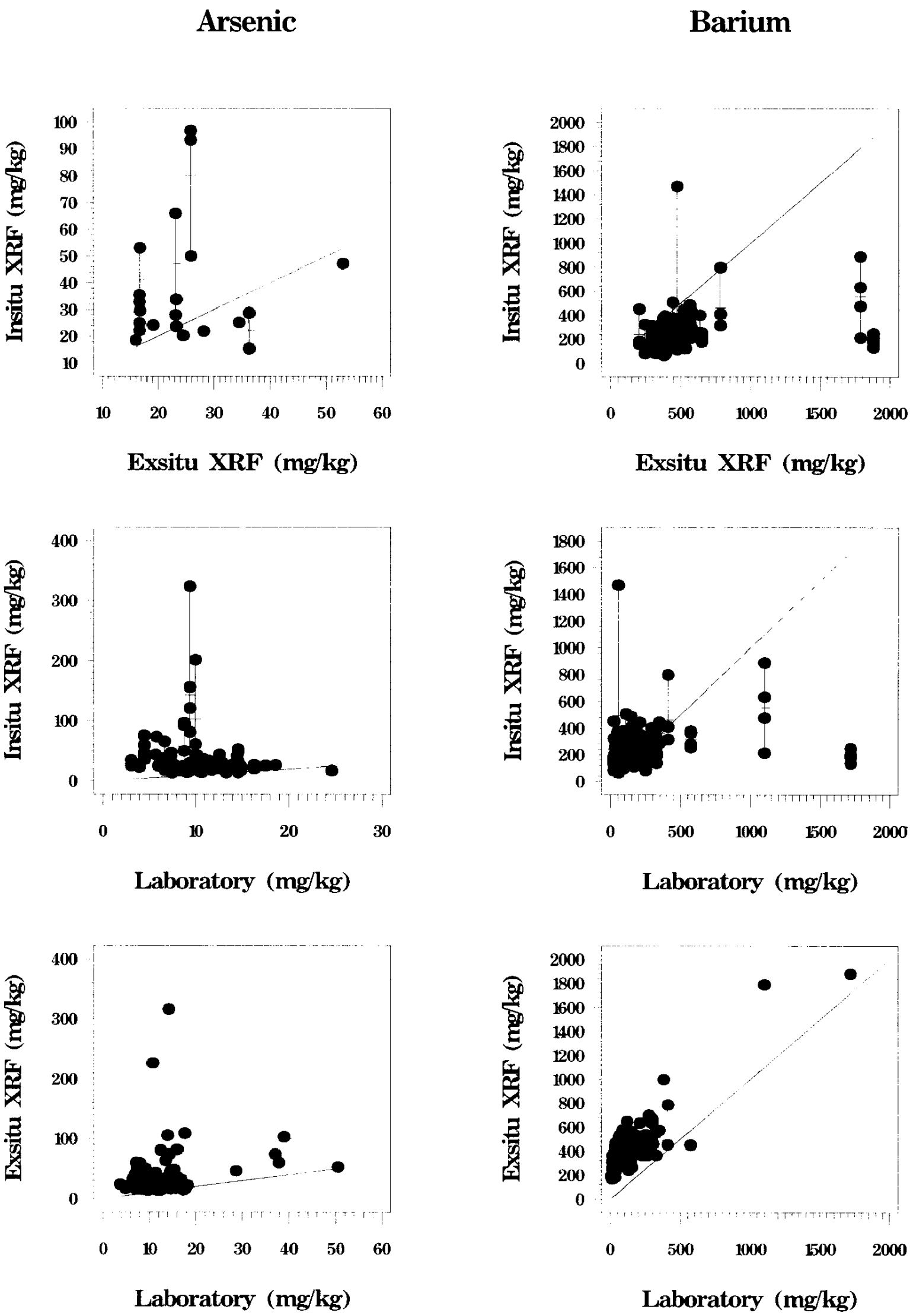
4.9.2.1 Ex-situ X-ray fluorescence results compared to inductively coupled plasma and AA laboratory results

Results for all metals reported by the ex-situ XRF method are summarized in Table 4-15. Nine analytes measured by XRF were not included in the target analyte list for the laboratory analyses. Five of these nine—cesium, lanthanum, palladium, tellurium, and tin—were infrequently detected (in 16% or fewer samples). The other four—molybdenum, rubidium, strontium, and zirconium—were detected in more than 74% of the samples. It is not possible to assess the accuracy of these nine metals because the actual concentrations are unknown.

Fifteen of the metals measured by XRF were also measured by the usual inductively coupled plasma (ICP) and atomic absorption (AA) methods. Summary statistics for samples analyzed by laboratory ICP and AA methods are presented in Table 4-16. The average detection limits for the XRF analyses are higher than the average detection limits for the usual laboratory analyses, in some cases as much as 100 times higher. (Compare Tables 4-15 and 4-16.) The higher detection limits for the XRF method limit which metals may be measured at LL 1. Antimony, cadmium, chromium, mercury, selenium, and silver were not further compared to the laboratory results because they were infrequently detected. Nickel was detected in 28 of 408 samples by the ex-situ XRF method (Table 4-15), but the average and maximum detect by XRF was more than 10 times higher than the average and maximum detect measured by the ICP method. It appears that nickel concentrations are overestimated by the XRF method.

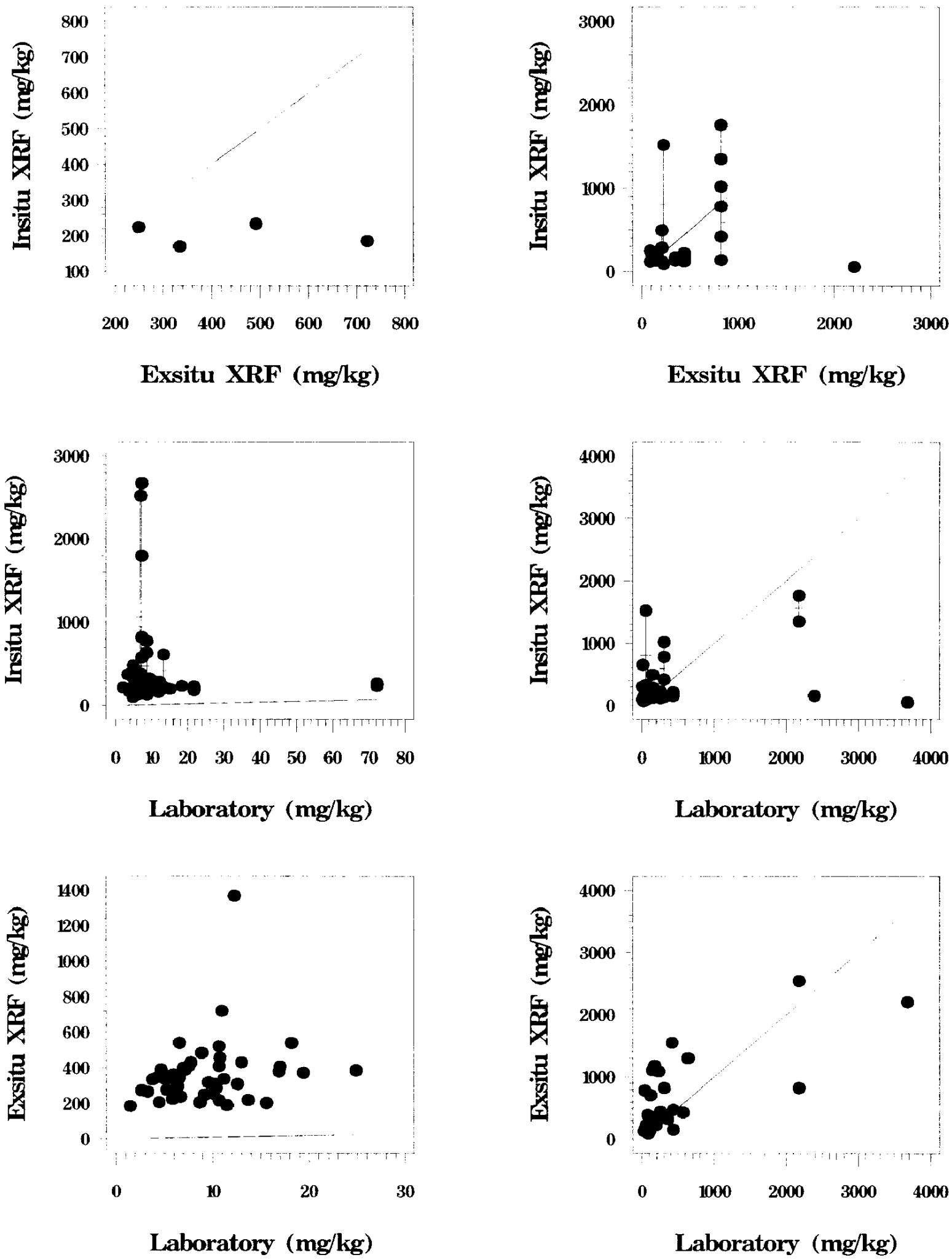
The results for the remaining eight analytes that were measured by both techniques are plotted in Figures 4-46 through 4-49. These figures show three scatter plots for each analyte. The plot at the top of the page shows the in-situ versus ex-situ results. The middle plot shows the in-situ results versus the results for the usual laboratory method. The plot at the bottom shows the results for the ex-situ method versus the usual laboratory method. Only results that were considered detects for both methods are plotted. For the in-situ measurements, a line connects the minimum and maximum detect from the same sampling location, and a crossbar on the line indicates the average value. If both methods were measuring the same concentration, all of the points should fall on a line with a slope of 1.0. A reference line with a slope of 1 is drawn on each plot.

The bottom plot in each column of Figures 4-46 through 4-49 shows the ex-situ results relative to the laboratory results. For arsenic and barium, most points fell above the 1:1 reference line, indicating that the ex-situ XRF tends to overestimate the metal concentrations compared to the laboratory measurements



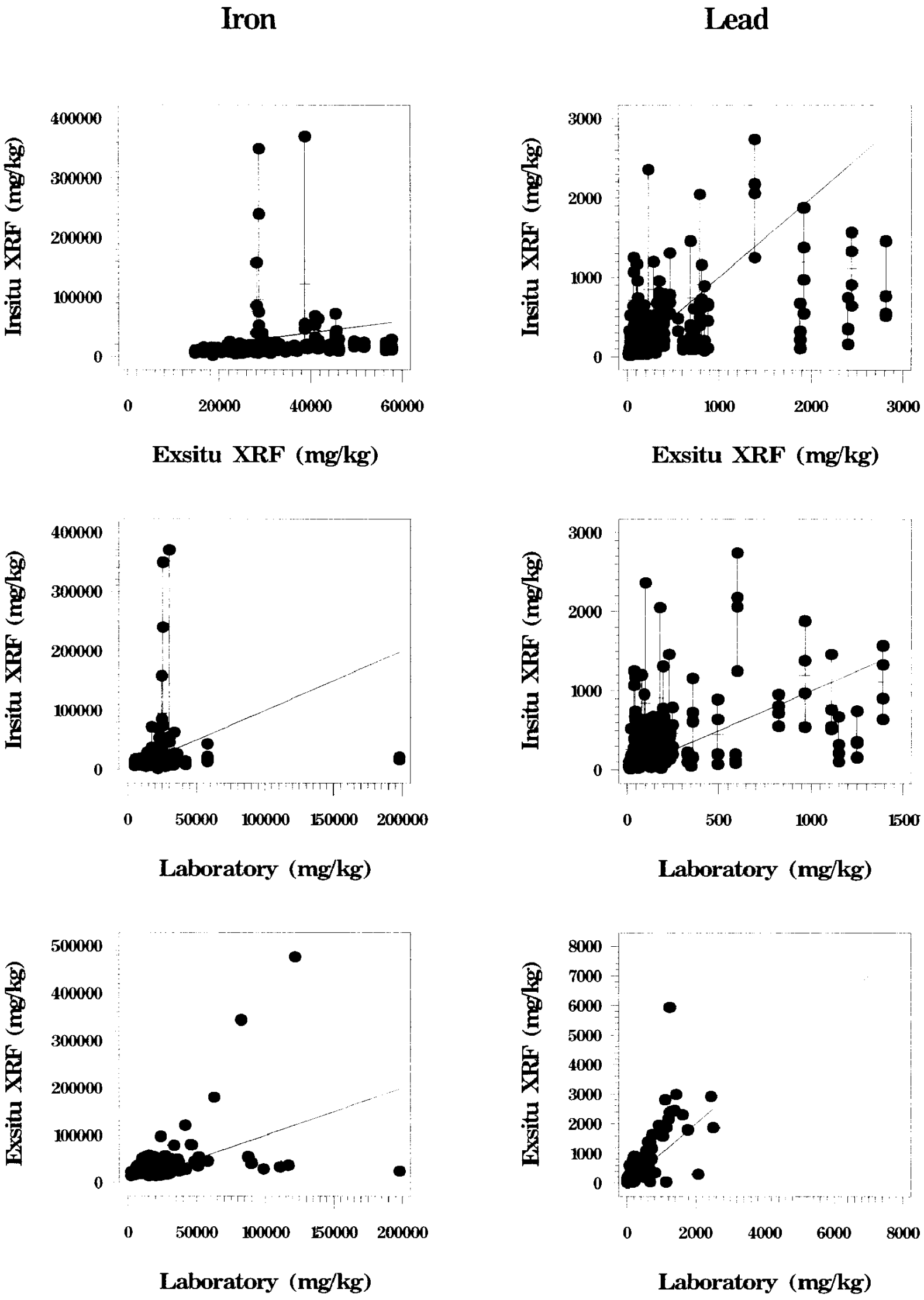
Circles indicate individual measured concentrations. Vertical lines connect in-situ measurements made at the same location. A reference line with a slope of 1 is drawn on each plot.

Figure 4-46. Comparison of XRF and Laboratory Measurements of Arsenic and Barium



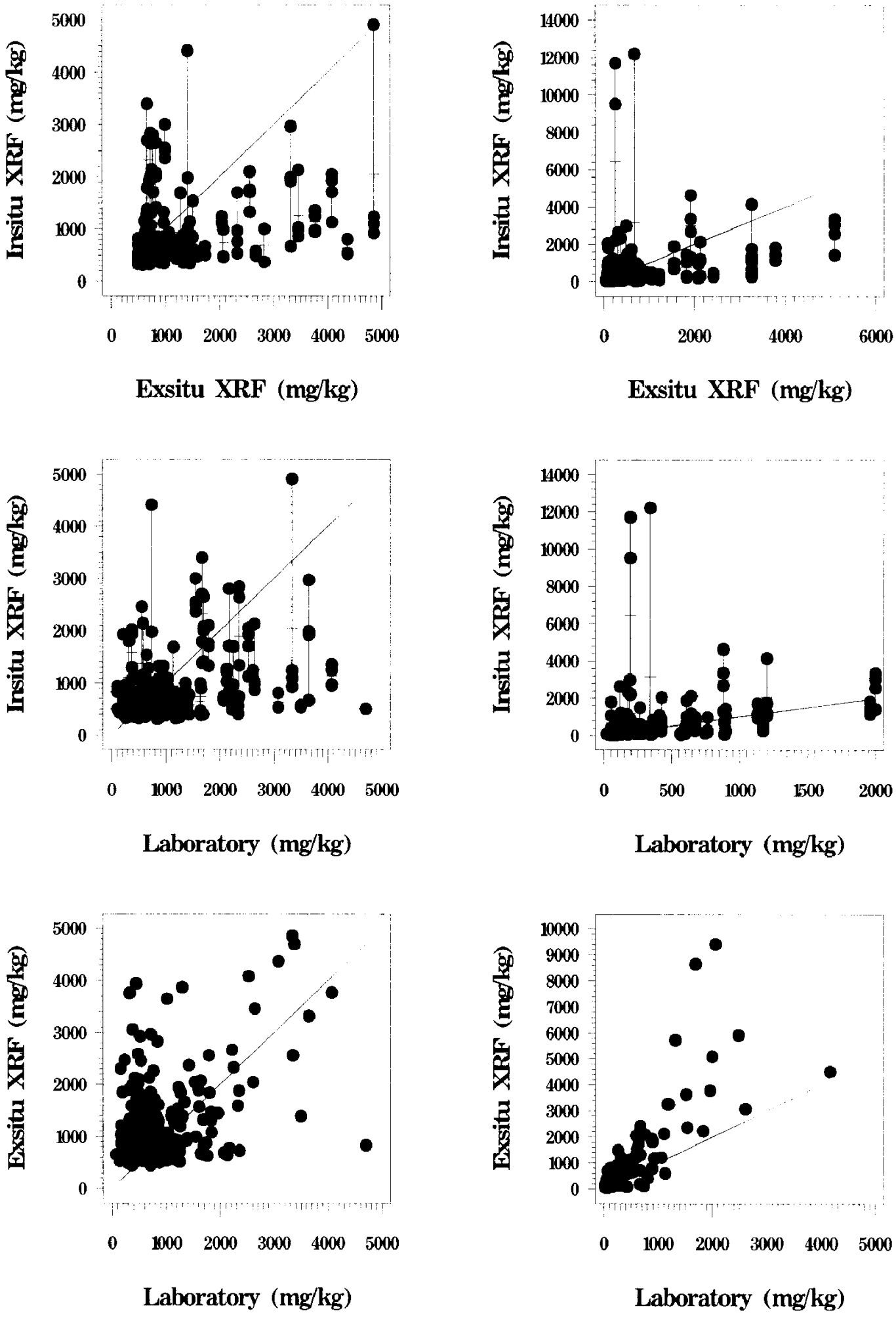
Circles indicate individual measured concentrations. Vertical lines connect in-situ measurements made at the same location. A reference line with a slope of 1 is drawn on each plot.

Figure 4-47. Comparison of XRF and Laboratory Measurements of Cobalt and Copper



Circles indicate individual measured concentrations. Vertical lines connect in-situ measurements made at the same location. A reference line with a slope of 1 is drawn on each plot.

Figure 4-48. Comparison of XRF and Laboratory Measurements of Iron and Lead



Circles indicate individual measured concentrations. Vertical lines connect in-situ measurements made at the same location. A reference line with a slope of 1 is drawn on each plot.

Figure 4-49. Comparison of XRF and Laboratory Measurements of Manganese and Zinc

(Figure 4-45). The plot for barium excludes an outlier for ex-situ XRF that had a concentration greater than 14,000 mg/kg. For cobalt (Figure 4-47), the ex-situ XRF measurements appeared uncorrelated with the laboratory measurements and generally higher by a factor of 10 or more. If the laboratory measurements are accurate, the plot indicates that the XRF method is not sensitive to the cobalt concentration. The XRF and laboratory measurements appear to be correlated for copper (Figure 4-47), but differences appear to be large at concentrations greater than 1,000 mg/kg. This pattern could indicate interference in the XRF method. The results for the two methods also appear to be correlated for iron but with large deviations at concentrations of more than 50,000 mg/kg (Figure 4-48). Again, this could be explained by interference. The methods appear to be fairly well correlated for lead (Figure 4-48), although there is some scatter at the higher concentrations. An outlier with an ex-situ lead concentration greater than 14,000 mg/kg was excluded from the plot. Results for the two methods appeared to be poorly correlated for manganese (Figure 4-49). Results for zinc appeared to be highly correlated, although the XRF method tended to give results higher than the laboratory method for laboratory concentrations greater than 1,000 mg/kg.

4.9.2.2 In-situ X-ray fluorescence analyses compared to ex-situ X-ray fluorescence analyses

Results for all metals reported by the in-situ XRF method are summarized in Table 4-17. The following discussion focuses on the 15 metals that were measured by both XRF and the usual ICP and AA methods. Summary statistics for samples analyzed by the ex-situ method are presented in Table 4-14. The average detection limits for the in-situ and ex-situ XRF analyses were generally similar. (Compare Tables 4-15 and 4-17). Antimony, cadmium, chromium, mercury, and selenium were not further compared because they were so infrequently detected. Silver and nickel were detected more frequently in the in-situ than the ex-situ analyses. The detection for both of these metals appear to be 100 or more times higher than the detects from the laboratory methods, indicating that there is a problem with the XRF results. The in-situ and ex-situ results for nickel and silver do not appear to be accurate.

For the eight metals plotted in Figures 4-46 through 4-49, the in-situ and ex-situ results do not appear to be correlated (top plot in each column). The variation among the four in-situ measurements taken at each sampling location was quite large in some cases. The variation of in-situ measurements at some locations was nearly as large as the entire range of the ex-situ measurements over all of the locations. This variability may represent heterogeneous concentrations in the surface soils or may result from measurement interference from other metals.

4.9.2.3 In-situ X-ray fluorescence analyses inductively coupled plasma and AA laboratory results

The results for the in-situ and laboratory measurements were plotted against each other in Figures 4-45 through 4-48 (middle plot in column) for the same eight metals that were compared for the ex-situ analyses. The in-situ results for arsenic and cobalt generally appeared to be higher than the laboratory results (above the 1:1 line in Figures 4-46 and 4-47). Barium, copper, iron, and manganese each had some measurements with high laboratory results but without correspondingly high in-situ values. This pattern may reflect vertical differences in the soil concentrations. If metal concentrations were higher in soils below the surface, the laboratory measurement made on a sample composited over a 30.5 cm (1 ft) depth would be higher than the in-situ measurements taken at the soil surface. There appeared to be some correlation for lead and zinc between the in-situ and laboratory measurements (Figures 4-48 and 4-49). The higher values for the laboratory measurements tended to correspond with the higher values of the in-situ XRF measurements with considerable scatter, however.

4.9.2.4 Assessment of X-ray fluorescence use

XRF detection limits for antimony, cadmium, chromium, mercury, and selenium were too high to reliably detect metals at the concentrations found in soils and sediment at LL 1. XRF results for cobalt, nickel, and silver were more than 10 times the corresponding laboratory values, indicating a problem with these measurements. Although there was some scatter and bias, the ex-situ XRF results did appear to correlate with the laboratory measurements for arsenic, barium, copper, iron, lead, and zinc. For lead and zinc, the in-situ XRF results also appeared to correlate with the laboratory measurements.

4.10 SUMMARY OF NATURE AND EXTENT OF CONTAMINATION

During the Phase II investigation at LL 1, environmental samples were collected as follows: 310 surface soil samples; 37 subsurface soil samples; 38 sediment samples; 14 surface water samples; and 26 groundwater samples in 3 sampling events. In addition, two surface water samples and seven sediment samples were collected from the storm drain and sanitary sewer line system. The following text provides a broad overview of the results of the investigation.

4.10.1 Surface Soil

Although concentrations of some explosives; the propellant, nitrocellulose; and some metals are very high at some surface soil stations at LL 1, the contaminants appear to be restricted in extent to the immediate proximity of operations buildings or other source areas immobile in the soils as evidenced by no spatial contaminant trends. For example, one station may have a metal at a concentration of 20 times background and an explosive at a concentration greater than 1,000 mg/kg, and the next closest stations will have the same metal at concentrations near background and the explosive at concentrations three orders of magnitude lower (i.e., 1 mg/kg). Most of the contamination occurred closest to the buildings and former building footprints. This is because during building washdowns, loose flakes of explosives and process effluent (i.e., pink water) were occasionally swept out of doorways and onto the ground.

Across the entire load line, the most commonly detected explosive was 2,4,6-TNT and the most commonly detected propellant was nitrocellulose.

Across the entire load line, the most commonly detected metals and/or the metals detected at the highest concentrations above background were cadmium, chromium, copper, lead, mercury, and zinc.

Organic contamination at LL 1 is minimal, with the majority of the SVOC detections being PAHs. These were detected at low levels typical of the chemical signature of many industrial facilities where fossil fuels are burned. Sporadic pesticide and PCB detections also occurred, usually at low levels.

At the former Buildings CB-4, CB-4A, CA-6, CA-6A, and settling basins area

- The immediate area around the Building CB-4A pad is the most heavily contaminated area at LL 1 with respect to explosives, propellants, and metals.

- HMX and RDX detections occurred frequently at the Building CB-4A pad but were not detected at the Building CB-4 pad.

- While nitrocellulose was detected frequently across the entire load line, the propellants, nitroglycerine and nitroguanidine, were detected only once at the load line, at stations near the Building CB-4 pad.

- The settling basins were less contaminated than the areas immediately near the former buildings.

- The former high explosive prep buildings were less contaminated than the former melt-pour complex.

- The areas under the floor slabs show little contamination.

At the Building CB-10/13 area

- Station LL1-109, which is in a ditch south of the Building CB-13 pad, is a hot spot of metals and explosives contamination. Nitrocellulose was detected at a concentration of 103 mg/kg.

- The areas under the floor slabs are not contaminated, based on limited sampling results.

- The southeastern sides of the buildings are more heavily contaminated than any other area around the buildings, suggesting that this is where the washdown effluent was directed.

At the Buildings CB-14, CB-15, and CB-17 area

- This area contains few detectable explosive compounds.

- This area also has less metals contamination when compared to the other building groupings in the load line. However, lead is elevated in some stations in both surface and subsurface soils.

At the Building CB3/801/Water Tower area

- The highest metals contamination in this area may be associated with slag on the railroad bed.
- In the area of the water tower, paint residue is the likely cause of elevated lead, chromium, and zinc.
- This area contains few detectable explosive compounds.
- There is no PCB contamination associated with paint chips from the demolition of the Water Tower.

In the Perimeter Area

- There is minimal metals contamination (a few metals at 2 times background).

- There were no explosives or propellants detected in the perimeter area indicating little migration of contamination from the major production areas to the outlying areas of the load line.

4.10.2 Subsurface Soil

The 29 subsurface soil samples collected during the Phase II RI were biased to areas that manifest the greatest surface soil contamination, where bedrock did not prevent sampling of this interval. Soils are generally thin to nonexistent throughout the production area of LL 1. The maximum thickness of soils as determined by subsurface soil borings during the Phase II RI is 0.9 m (3 ft), but generally refusal of borings occurred before this depth was achieved. Organic compounds were not evaluated in subsurface soils due to bedrock refusal of the four locations planned for organic analysis at depths less than 1 ft. The specific findings of the subsurface soil investigation are as follows.

At the former Buildings CB-4, CB-4A, CA-6, CA-6A, and settling basins area

- Occurrences of explosive compounds in the subsurface soils are concentrated in the melt-pour area (including the former settling basin). The maximum concentration of any explosive in subsurface soils was encountered at LL1-325 near Building CA-6A, with TNT at 4,500 mg/kg. The maximum concentration of nitrocellulose (the only propellant identified in subsurface soils), at 29.3 mg/kg, was also encountered in this sample.

- HMX and RDX are present at their maximum concentrations at LL1-015 in Building CB-4A. HMX was detected only at this building in two locations, and RDX was present at Buildings CB-4A and CB-4 only.

- Concentrations of metals in the subsurface are generally lower than in the surface soils, except where soils were disturbed during the demolition of buildings—most notably at LL1-006 and LL1-007 at Building CB-4 and at LL1-265 and LL1-266 at the site of the former settling basin.

- Barium, chromium, mercury, and selenium were only detected above background in the melt-pour area and at LL1-109. Selenium occurrences above background appear to be associated with the former settling basin.

- Cyanide was present at the two melt-pour buildings, at LL1-001 and LL1-156, at 1.2 and 0.63 mg/kg, respectively.

At the Building CB-10/13 area

- There was a single detection of explosives in subsurface soil from this aggregate. The ditch south of Building CB-13 also had 29.3mg/kg nitrocellulose in the subsurface soil at LL1so-109, although none was detected in the surface soil.

- The highest concentrations of cadmium, zinc, and lead come from one sample, LL1so-109 between Buildings CB-10 and CB-13. Barium, chromium, mercury, and selenium were only detected above background in the melt-pour area and at LL1-109. The highest concentrations of antimony, silver, and chromium in LL 1 subsurface soils come from LL1-109. Selenium occurrences above background appear to be associated with these buildings at station LL1-109.

At the Buildings CB-14, CA-15, and CB-17 area

- There was a single detection of explosives in subsurface soil from this aggregate. One sample at Building CB-17 (LL1-087) contained nitrocellulose at 8.8 mg/kg and TNT and 2,4-DNT at concentrations < 1 mg/kg.

- At LL1-087 at Building CB-17, cadmium, lead, and zinc were the sole exceedances of background values.

In the Railroad bed area

- Track CB is generally free of explosives contamination, except for one detection at LL1-241. Two of 10 samples collected on Track CB had evidence of explosives, but only LL1-241 contained detectable quantities in the confirmatory laboratory analysis (0.17 mg/kg 3-nitrotoluene).

- LL1-244 and LL1-245 on Track CB are the only railroad bed samples that have detections of metals that exceed background. Cadmium and zinc were found above the background values in both samples.

4.10.3 Sediments

- Ditch sediments near Buildings CB-13 and CB-13B contain the greatest quantity of explosives, propellants, and TOC.

- Explosive contamination does not appear to have migrated far along drainages exiting LL 1. The source of all explosives in ditch and pond sediments is believed to be from pink wastewater discharged directly from the load line, rather than from migration of surface soil contamination.

- Metals were detected in all sediment samples but were concentrated and most abundant along Drainages A, C, and E and F. Metals detected in off-AOC areas were most likely transported to those locations in process-related effluents exiting the site through Drainage C. However, the presence of metals in sediments at LL1-318, which is upstream of the confluence with LL 1 drainageways, indicates that other areas at RVAAP may be contributing contaminants to downstream off-AOC locations.

- PCBs were detected at isolated locations within drainage ditches, indicating that erosion of surface soils has not dispersed PCBs across the site.

4.10.4 Surface Water

- The highest explosives and propellants concentrations in surface water occurred at locations in which sediment samples tested negative for field explosives and were not analyzed for laboratory explosives.

- Metals were detected in all surface water samples but were most abundant at Charlie's Pond at the AOC boundary along Drainage C, and at station LL1-318, which is upstream of the confluence with LL 1 drainageways. The presence of metals in surface water at LL1-318 indicates that other areas at RVAAP may be contributing contaminants to downstream off-AOC locations.

- No SVOCs, VOCs, or PCBs/pesticides were detected in surface water within the LL 1 AOC. These compounds are most likely not migrating along drainageways due to high sorption potential to soils and sediments, and the one minor detection in the off-AOC area is most likely due to contributions from other areas.

4.10.5 Groundwater

- Isolated detections and relatively low explosives concentrations in monitoring wells near the main process areas indicate that migration of explosives from soil to groundwater is minimal.

- Monitoring wells within the main process areas appear to have been impacted by site-related metals contamination. However, detections of metals above background are generally not found in groundwater at the perimeter locations sampled.

- Zinc concentrations have increased for most monitoring wells in which zinc was detected between the 1999 and 2000 sampling events. No clear time patterns exist for other metals in groundwater.

- Minor detections of SVOCs and PCBs/pesticides in few monitoring wells near the main process areas indicate that migration of these contaminants from soil to groundwater is minimal.

- Three VOCs—chloroform, methylene chloride, and toluene—were detected in several monitoring wells. However, two of these compounds were also detected in trip blank samples; therefore, the presence of these VOCs may be may not be related to LL 1 activities.

4.10.6 Sanitary Sewer Surface Water and Sediment

Two water samples were collected from the sanitary sewer drain system, one from the northwest corner of LL 1, which is a major collection point for sanitary effluent from the load line, and the other from east of the melt-pour complex. Explosives were detected in low concentrations (<0.1 mg/L) in the sample from east of the melt-pour complex. Metals were detected in both water samples, but no background data set is available for comparison. The highest concentration detected was 16.1 mg/L for iron from the northwest corner of the load line. This location also showed very low estimated concentrations (<0.01 mg/L) of SVOCs.

Seven sediment samples were collected and analyzed from the sanitary sewers and storm drain inlets. Explosives and propellants were detected in all of the sediment samples, except one not sent to the fixed-base laboratory because the field screening showed non-detect for TNT/RDX. Cyanide was not detected in any sample, and hexavalent chromium was detected in only one sample at a concentration of 5.4 mg/kg. TAL metals were commonly detected in the sewer sediment samples. The highest inorganic contamination of many metals occurred in samples from manholes 208 and 213, corresponding to the melt-pour complex and an area adjacent to former building CB-14, respectively. Other sewer sediment samples from the area of the melt-pour complex also had relatively high concentrations of some metals.

Only two sediment samples, one from within the melt-pour complex and one adjacent to former building CB-14, were analyzed for organic compounds. Isolated VOCs were detected at concentrations less than 0.01 mg/kg. PAHs were detected in both samples with concentrations ranging from 0.41 to 25 mg/kg. Pesticides and PCBs were also detected in both samples. The pesticides were commonly used for insect control throughout RVAAP, but the specific sources of the PAHs are not known.

Table 4-1. RVAPP Facility-Wide Inorganic Background Criteria[a]

Analyte	Surface Soil mg/kg	Subsurface Soil mg/kg	Sediment mg/kg	Surface Water µg/L	Groundwater Bedrock Zone Filtered µg/L	Groundwater Bedrock Zone Unfiltered µg/L	Groundwater Unconsolidated Zone Filtered µg/L	Groundwater Unconsolidated Zone Unfiltered µg/L
Cyanide	0	0	0	0	0	0	0	0
Aluminum	17,700	19,500	13,900	3,370	0	9,410	0	48,000
Antimony	0.96	0.96	0	0	0	0	0	4.3
Arsenic	15.4	19.8	19.5	3.2	0	19.1	11.7	215
Barium	88.4	124	123	47.5	256	241	82.1	327
Beryllium	0.88	0.88	0.38	0	0	0	0	0
Cadmium	0	0	0	0	0	0	0	0
Calcium	15,800	35,500	5,510	41,400	53,100	48,200	115,000	194,000
Chromium	17.4	27.2	18.1	0	0	19.5	7.3	85.2
Cobalt	10.4	23.2	9.1	0	0	0	0	46.3
Copper	17.7	32.3	27.6	7.9	0	17	0	289
Iron	23,100	35,200	28,200	2,560	1,430	21,500	279	195,000
Lead	26.1	19.1	27.4	0	0	23	0	183
Magnesium	3,030	8,790	2,760	10,800	15,000	13,700	43,300	58,400
Manganese	1,450	3,030	1,950	391	1,340	1,260	1,020	2,860
Mercury	0.036	0.044	0.059	0	0	0	0	.25
Nickel	21.1	60.7	17.7	0	83.4	85.3	0	117
Potassium	927	3,350	1,950	3,170	5,770	6,060	2,890	7,480
Selenium	1.4	1.5	1.7	0	0	0	0	5.7
Silver	0	0	0	0	0	0	0	0
Sodium	123	145	112	21,300	51,400	49,700	45,700	44,700
Thallium	0	0.91	0.89	0	0	0	0	2.4
Vanadium	31.1	37.6	26.1	0	0	15.5	0	98.1
Zinc	61.8	93.3	532	42	52.3	193	60.9	888

[a]Organic constituents are assumed to be non-naturally occurring; therefore, no background criteria are established for these classes of compounds.

Table 4-2. Summary Statistics and Determination of SRCs in Surface Soil CB-13 and CB-10

Analyte	Results > Detection Limit	Average Result[a]	Minimum Detect	Maximum Detect	Site Background Criteria[b]	SRC?
Explosives (mg/kg)						
2,4,6-Trinitrotoluene	17/ 26	10.15	0.055	230		Yes
2,4-Dinitrotoluene	5/ 26	0.7892	0.21	9.3		Yes
2,6-Dinitrotoluene	5/ 26	0.3952	0.11	0.6		Yes
2-Amino-4,6-dinitrotoluene	9/ 26	0.6677	0.091	8.7		Yes
4-Amino-2,6-dinitrotoluene	5/ 26	0.5944	0.2	1.9		Yes
4-Nitrotoluene	1/ 26	0.3875	0.2	0.2		Yes
HMX	2/ 26	0.8454	0.78	2.2		Yes
Nitrocellulose	8/ 26	10.8	6.5	103		Yes
RDX	1/ 26	1.788	27	27		Yes
Inorganics (mg/kg)						
Aluminum	50/ 50	11,130	3,400	25,800	17,700	Yes
Antimony	16/ 50	0.947	0.55	9.1	0.96	Yes
Arsenic	50/ 50	10.27	3.1	18.3	15.4	Yes
Barium	50/ 50	110.1	23.6	410	88.4	Yes
Beryllium	25/ 50	0.7355	0.37	3.4	0.88	Yes
Cadmium	39/ 50	3.192	0.062	48.2	0	Yes
Calcium	50/ 50	27,820	217	162,000	15,800	No
Chromium	50/ 50	24.66	5.2	312	17.4	Yes
Cobalt	50/ 50	8.71	2.2	32	10.4	Yes
Copper	50/ 50	109.6	5.3	2,390	17.7	Yes
Cyanide	4/ 24	0.3798	0.67	1	0	Yes
Iron	50/ 50	19,870	5,190	58,000	23,100	No
Lead	50/ 50	170.9	9.4	1,770	26.1	Yes
Magnesium	50/ 50	5,134	795	20,200	3,030	No
Manganese	50/ 50	1,036	226	3,650	1,450	Yes
Mercury	46/ 50	0.07088	0.012	0.41	0.036	Yes
Nickel	50/ 50	18.2	3.3	62.4	21.1	Yes
Potassium	50/ 50	1,139	402	3,610	927	No
Selenium	19/ 50	0.6651	0.39	3.6	1.4	Yes
Silver	2/ 50	0.5938	0.21	0.23	0	No
Sodium	25/ 50	315.8	62.6	1,440	123	No
Thallium	47/ 50	0.453	0.24	0.78	0	Yes
Vanadium	50/ 50	15.16	5.8	38.2	31.1	Yes
Zinc	50/ 50	336.3	20	2,060	61.8	Yes
Organics–Pesticide/PCB (mg/kg)						
4,4'-DDE	3/ 6	0.02948	0.022	0.082		Yes
4,4'-DDT	1/ 6	0.006308	0.015	0.015		Yes
Endrin aldehyde	3/ 6	0.02098	0.015	0.053		Yes
Heptachlor	1/ 6	0.008475	0.028	0.028		Yes
PCB-1254	3/ 6	0.8593	1	2.4		Yes
gamma-Chlordane	2/ 6	0.01023	0.014	0.035		Yes
Organics–Semivolatile (mg/kg)						
2-Methylnaphthalene	1/ 6	0.1825	0.14	0.14		Yes
Anthracene	1/ 6	0.1697	0.073	0.073		Yes
Benz(a)anthracene	3/ 6	0.1818	0.061	0.41		Yes
Benzo(a)pyrene	3/ 6	0.1797	0.081	0.37		Yes

Table 4-2. Summary Statistics and Determination of SRCs in Surface Soil CB-13 and CB-10 (continued)

Analyte	Results > Detection Limit	Average Result[a]	Minimum Detect	Maximum Detect	Site Background Criteria[b]	SRC?
Benzo(b)fluoranthene	3/ 6	0.2058	0.11	0.47		Yes
Benzo(ghi)perylene	3/ 6	0.157	0.057	0.24		Yes
Benzo(k)fluoranthene	1/ 6	0.1925	0.21	0.21		Yes
Carbazole	1/ 6	0.1695	0.072	0.072		Yes
Chrysene	3/ 6	0.199	0.069	0.48		Yes
Di-n-butyl phthalate	1/ 6	0.2375	0.47	0.47		Yes
Fluoranthene	3/ 6	0.3025	0.12	1		Yes
Fluorene	1/ 6	0.1643	0.041	0.041		Yes
Indeno(1,2,3-cd)pyrene	3/ 6	0.1588	0.056	0.26		Yes
Naphthalene	1/ 6	0.1758	0.1	0.1		Yes
Phenanthrene	2/ 6	0.2183	0.11	0.45		Yes
Pyrene	3/ 6	0.2582	0.094	0.79		Yes
Organics–Volatile (mg/kg)						
1,2-Dichloroethene	5/ 6	0.003758	0.0018	0.0072		Yes
Acetone	1/ 6	0.005667	0.005	0.005		Yes
Methylene chloride	1/ 6	0.002808	0.0022	0.0022		Yes
Toluene	2/ 6	0.003125	0.0031	0.0044		Yes
Trichloroethene	3/ 6	0.002758	0.0018	0.0033		Yes

[a] One-half of the detection limit was used as a surrogate value for non-detects in calculating the average result.
[b] Background criteria were set to zero for inorganic compounds that were not detected in the background samples. Organic compounds were considered non-naturally occurring; therefore, no background criteria are established for these classes of compounds.
PCB = polychlorinated biphenyl.
SRC = site-related contaminant.

Table 4-3. Summary Statistics and Determination of SRCs in Surface Soil CB-14, CB-17, and CA-15

Analyte	Results > Detection Limit	Average Result[a]	Minimum Detect	Maximum Detect	Site Background Criteria[b]	SRC?
Explosives (mg/kg)						
2,4,6-Trinitrotoluene	2/ 4	1.28	0.37	4.5		Yes
2,4-Dinitrotoluene	2/ 4	0.29	0.38	0.53		Yes
4-Amino-2,6-dinitrotoluene	2/ 4	0.2525	0.14	0.62		Yes
HMX	2/ 4	0.88	0.32	2.7		Yes
Nitrocellulose	2/ 4	35.38	49.5	90		Yes
RDX	1/ 4	8.688	34	34		Yes
Inorganics (mg/kg)						
Aluminum	26/ 26	14,130	6,100	97,300	17,700	Yes
Antimony	2/ 26	0.7285	0.55	0.64	0.96	No
Arsenic	26/ 26	14.72	4.5	112	15.4	Yes
Barium	26/ 26	99.24	30.6	572	88.4	Yes
Beryllium	25/ 26	0.6687	0.24	3.3	0.88	Yes
Cadmium	11/ 26	1.173	0.05	11.6	0	Yes
Calcium	26/ 26	14,450	413	133,000	15,800	No
Chromium	26/ 26	19.9	8.4	128	17.4	Yes
Cobalt	26/ 26	10.35	2.6	72.3	10.4	Yes
Copper	26/ 26	34.48	8	199	17.7	Yes
Cyanide	1/ 11	0.6577	2.4	2.4	0	Yes
Iron	26/ 26	28,400	9,800	198,000	23,100	No
Lead	26/ 26	70.31	12.8	602	26.1	Yes
Magnesium	26/ 26	4,149	1,420	23,100	3,030	No
Manganese	26/ 26	863.1	215	4,700	1,450	Yes
Mercury	26/ 26	0.0565	0.018	0.37	0.036	Yes
Nickel	26/ 26	22.31	7.3	160	21.1	Yes
Potassium	26/ 26	1,474	587	11,600	927	No
Selenium	6/ 26	0.5383	0.55	1.1	1.4	No
Silver	3/ 26	0.6835	0.2	0.21	0	Yes
Sodium	9/ 26	248.4	63.1	1,630	123	No
Thallium	26/ 26	0.6396	0.34	4.6	0	Yes
Vanadium	26/ 26	24.27	8.6	179	31.1	Yes
Zinc	26/ 26	150.5	39.2	881	61.8	Yes
Organics–Pesticide/PCB (mg/kg)						
4,4'-DDE	3/ 3	0.07433	0.01	0.2		Yes
Endrin aldehyde	3/ 3	0.1058	0.0083	0.3		Yes
Endrin ketone	1/ 3	0.008183	0.0041	0.0041		Yes
Methoxychlor	1/ 3	0.0149	0.0037	0.0037		Yes
PCB-1254	3/ 3	2.013	0.6	4.7		Yes
alpha-Chlordane	1/ 3	0.00845	0.0049	0.0049		Yes
beta-BHC	1/ 3	0.008033	0.0028	0.0028		Yes
gamma-Chlordane	3/ 3	0.0463	0.0044	0.13		Yes
Organics–Semivolatile (mg/kg)						
2-Methylnaphthalene	2/ 4	0.1445	0.038	0.17		Yes
Acenaphthene	1/ 4	0.1573	0.069	0.069		Yes
Anthracene	2/ 4	0.16	0.11	0.16		Yes
Benz(a)anthracene	2/ 4	0.3525	0.4	0.64		Yes
Benzo(a)pyrene	3/ 4	0.3993	0.037	0.84		Yes
Benzo(b)fluoranthene	3/ 4	0.5283	0.073	1.1		Yes

Table 4-3. Summary Statistics and Determination of SRCs in Surface Soil CB-14, CB-17, and CA-15 (continued)

Analyte	Results > Detection Limit	Average Result[a]	Minimum Detect	Maximum Detect	Site Background Criteria[b]	SRC?
Benzo(ghi)perylene	2/ 4	0.32	0.3	0.61		Yes
Benzo(k)fluoranthene	2/ 4	0.2325	0.26	0.3		Yes
Bis(2-ethylhexyl)phthalate	1/ 4	0.1713	0.14	0.14		Yes
Carbazole	2/ 4	0.1438	0.095	0.11		Yes
Chrysene	2/ 4	0.3925	0.56	0.64		Yes
Di-n-butyl phthalate	3/ 4	0.2808	0.093	0.72		Yes
Dibenz(a,h)anthracene	2/ 4	0.159	0.086	0.18		Yes
Dibenzofuran	1/ 4	0.1475	0.045	0.045		Yes
Fluoranthene	3/ 4	0.6473	0.089	1.4		Yes
Fluorene	1/ 4	0.1543	0.057	0.057		Yes
Indeno(1,2,3-cd)pyrene	2/ 4	0.325	0.29	0.64		Yes
Naphthalene	2/ 4	0.1313	0.045	0.11		Yes
Phenanthrene	2/ 4	0.3725	0.45	0.67		Yes
Pyrene	3/ 4	0.5558	0.063	1		Yes
Organics–Volatile (mg/kg)						
1,2-Dichloroethene	4/ 4	0.002375	0.0016	0.0031		Yes
Methylene chloride	2/ 4	0.002438	0.0019	0.0021		Yes
Toluene	1/ 4	0.0025	0.0017	0.0017		Yes

[a] One-half of the detection limit was used as a surrogate value for non-detects in calculating the average result.
[b] Background criteria were set to zero for inorganic compounds that were not detected in the background samples. Organic compounds were considered non-naturally occurring; therefore, no background criteria are established for these classes of compounds.
PCB = polychlorinated biphenyl.
SRC = site-related contaminant.

Table 4-4. Summary Statistics and Determination of SRCs in Surface Soil CB-3/CB-801

Analyte	Results > Detection Limit	Average Result[a]	Minimum Detect	Maximum Detect	Site Background Criteria[b]	SRC?
Explosives (mg/kg)						
1,3,5-Trinitrobenzene	3/ 13	0.1214	0.098	0.12		Yes
2,4,6-Trinitrotoluene	6/ 13	0.2204	0.08	1.2		Yes
2,4-Dinitrotoluene	1/ 13	0.1269	0.15	0.15		Yes
2-Amino-4,6-dinitrotoluene	1/ 13	0.1228	0.097	0.097		Yes
2-Nitrotoluene	1/ 13	0.1473	0.22	0.22		Yes
4-Amino-2,6-dinitrotoluene	5/ 13	0.1347	0.091	0.23		Yes
Nitrobenzene	3/ 13	0.1296	0.095	0.23		Yes
Nitrocellulose	5/ 13	2.602	0.52	14.9		Yes
RDX	1/ 13	0.2531	0.29	0.29		Yes
Inorganics (mg/kg)						
Chromium, hexavalent	1/ 2	1	1.4	1.4	0	Yes
Aluminum	22/ 22	9,780	4,120	23,200	17,700	Yes
Antimony	10/ 22	50.44	0.71	648	0.96	Yes
Arsenic	22/ 22	11.55	5.3	19	15.4	Yes
Barium	22/ 22	107	20.5	347	88.4	Yes
Beryllium	11/ 22	0.5573	0.33	2.5	0.88	Yes
Cadmium	20/ 22	2.621	0.074	27.3	0	Yes
Calcium	22/ 22	30,500	300	221,000	15,800	No
Chromium	22/ 22	30.07	6.8	174	17.4	Yes
Cobalt	22/ 22	7.491	3.4	10.9	10.4	Yes
Copper	22/ 22	38.43	5.9	191	17.7	Yes
Cyanide	2/ 9	0.4011	0.58	1	0	Yes
Iron	22/ 22	24,030	8,830	90,000	23,100	No
Lead	22/ 22	244.6	16	1,620	26.1	Yes
Magnesium	22/ 22	4,051	1,300	17,000	3,030	No
Manganese	22/ 22	915.1	315	4,070	1,450	Yes
Mercury	20/ 22	0.08505	0.016	0.42	0.036	Yes
Nickel	22/ 22	19	7.8	60.5	21.1	Yes
Potassium	22/ 22	1,073	568	1,790	927	No
Selenium	10/ 22	0.5543	0.39	1.8	1.4	Yes
Silver	3/ 22	0.5677	0.21	0.46	0	Yes
Sodium	7/ 22	227.6	69.5	926	123	No
Thallium	22/ 22	0.56	0.43	0.8	0	Yes
Vanadium	22/ 22	15.45	7.8	27.4	31.1	No
Zinc	22/ 22	194.1	72.1	674	61.8	Yes
Organics–Pesticide/PCB (mg/kg)						
4,4'-DDE	2/ 4	0.05188	0.048	0.12		Yes
4,4'-DDT	1/ 4	0.02513	0.041	0.041		Yes
Dieldrin	1/ 4	0.02388	0.036	0.036		Yes
Endrin aldehyde	2/ 4	0.08063	0.073	0.21		Yes
Endrin ketone	1/ 4	0.03138	0.081	0.081		Yes
Methoxychlor	1/ 4	0.0355	0.026	0.026		Yes
PCB-1254	4/ 4	1.755	0.33	4.3		Yes
beta-BHC	2/ 4	0.06938	0.018	0.22		Yes
gamma-Chlordane	2/ 4	0.03288	0.04	0.052		Yes

Table 4-4. Summary Statistics and Determination of SRCs in Surface Soil CB-3/CB-801 (continued)

Analyte	Results > Detection Limit	Average Result[a]	Minimum Detect	Maximum Detect	Site Background Criteria[b]	SRC?
Organics–Semivolatile (mg/kg)						
2-Methylnaphthalene	2/ 5	0.601	0.05	0.12		Yes
Acenaphthene	1/ 5	0.692	2.4	2.4		Yes
Anthracene	2/ 5	1.318	0.21	5.8		Yes
Benz(a)anthracene	5/ 5	3.078	0.071	14		Yes
Benzo(a)pyrene	5/ 5	2.936	0.073	13		Yes
Benzo(b)fluoranthene	5/ 5	3.628	0.1	15		Yes
Benzo(ghi)perylene	5/ 5	2	0.054	8.2		Yes
Benzo(k)fluoranthene	3/ 5	1.381	0.13	5.7		Yes
Bis(2-ethylhexyl)phthalate	2/ 5	0.654	0.095	0.34		Yes
Carbazole	2/ 5	0.968	0.16	4.1		Yes
Chrysene	5/ 5	3.45	0.089	15		Yes
Di-n-butyl phthalate	1/ 5	0.706	0.5	0.5		Yes
Dibenz(a,h)anthracene	2/ 5	0.52	0.32	1.7		Yes
Dibenzofuran	1/ 5	0.472	1.3	1.3		Yes
Fluoranthene	5/ 5	8.368	0.14	39		Yes
Fluorene	1/ 5	0.672	2.3	2.3		Yes
Indeno(1,2,3-cd)pyrene	5/ 5	2.022	0.053	8.7		Yes
Naphthalene	1/ 5	0.6722	0.046	0.046		Yes
Pentachlorophenol	1/ 5	1.634	0.083	0.083		Yes
Phenanthrene	5/ 5	6.272	0.072	30		Yes
Phenol	1/ 5	0.672	0.045	0.045		Yes
Pyrene	5/ 5	8.698	0.14	41		Yes
Organics–Volatile (mg/kg)						
1,2-Dichloroethene	5/ 5	0.004664	0.00072	0.0079		Yes
Methylene chloride	1/ 5	0.00294	0.003	0.003		Yes
Trichloroethene	1/ 5	0.00323	0.0044	0.0044		Yes

[a] One-half of the detection limit was used as a surrogate value for non-detects in calculating the average result.
[b] Background criteria were set to zero for inorganic compounds that were not detected in the background samples. Organic compounds were considered non-naturally occurring; therefore, no background criteria are established for these classes of compounds.
PCB = polychlorinated biphenyl.
SRC = site-related contaminant.

Table 4-5. Summary Statistics and Determination of SRCs in Surface Soil CB-4/4A and CA-6/6A

Analyte	Results > Detection Limit	Average Result[a]	Minimum Detect	Maximum Detect	Site Background Criteria[b]	SRC?
Explosives (mg/kg)						
1,3,5-Trinitrobenzene	5/ 82	3.183	0.12	110		Yes
1,3-Dinitrobenzene	4/ 82	3.183	0.034	110		Yes
2,4,6-Trinitrotoluene	60/ 82	159.7	0.052	4,800		Yes
2,4-Dinitrotoluene	9/ 82	3.363	0.046	0.23		Yes
2,6-Dinitrotoluene	7/ 82	3.385	0.093	0.86		Yes
2-Amino-4,6-dinitrotoluene	43/ 82	3.96	0.1	11		Yes
2-Nitrotoluene	2/ 82	3.371	0.18	0.69		Yes
3-Nitrotoluene	5/ 82	3.37	0.14	0.18		Yes
4-Amino-2,6-dinitrotoluene	20/ 82	9.328	0.13	5.9		Yes
4-Nitrotoluene	5/ 82	3.37	0.11	0.2		Yes
HMX	13/ 82	8.423	0.25	260		Yes
Nitrobenzene	8/ 82	3.356	0.048	0.59		Yes
Nitrocellulose	50/ 82	11.33	0.3	388		Yes
Nitroglycerin	1/ 82	33.75	7.4	7.4		Yes
Nitroguanidine	1/ 82	0.2504	0.035	0.035		Yes
RDX	17/ 82	47.91	0.22	2,300		Yes
Inorganics (mg/kg)						
Aluminum	160/ 160	9,398	756	46,100	17,700	Yes
Antimony	21/ 160	0.6957	0.59	3	0.96	Yes
Arsenic	160/ 160	10.28	1.8	55.6	15.4	Yes
Barium	160/ 160	110.1	13.3	1,970	88.4	Yes
Beryllium	96/ 160	0.4043	0.22	2.6	0.88	Yes
Cadmium	128/ 160	1.422	0.053	27.3	0	Yes
Calcium	159/ 160	7,362	123	121,000	15,800	No
Chromium	160/ 160	20.44	2.1	400	17.4	Yes
Cobalt	159/ 160	8.187	0.88	49.3	10.4	Yes
Copper	160/ 160	62.06	2.4	3,680	17.7	Yes
Cyanide	10/ 75	0.4574	0.57	3.8	0	Yes
Iron	160/ 160	20,990	2,490	111,000	23,100	No
Lead	160/ 160	198.5	10.1	7,130	26.1	Yes
Magnesium	160/ 160	2,356	112	15,300	3,030	No
Manganese	160/ 160	638.5	79.5	3,500	1,450	Yes
Mercury	146/ 160	0.2157	0.01	9.7	0.036	Yes
Nickel	159/ 160	16.15	3.5	101	21.1	Yes
Potassium	159/ 160	927.8	199	5,700	927	No
Selenium	102/ 160	0.7135	0.34	5.3	1.4	Yes
Silver	5/ 160	0.5941	0.17	0.88	0	No
Sodium	25/ 160	254.6	59.9	888	123	No
Thallium	152/ 160	0.5026	0.17	2.5	0	Yes
Vanadium	160/ 160	17.74	1.8	77.9	31.1	Yes
Zinc	160/ 160	160.4	15	1,690	61.8	Yes
Organics–Pesticide/PCB (mg/kg)						
4,4'-DDE	12/ 17	0.5074	0.003	6.7		Yes
4,4'-DDT	2/ 17	0.02125	0.0053	0.041		Yes
Dieldrin	3/ 17	0.04259	0.014	0.55		Yes
Endrin aldehyde	10/ 17	0.3149	0.0038	4.4		Yes
Endrin ketone	1/ 17	0.01947	0.014	0.014		Yes

Table 4-5. Summary Statistics and Determination of SRCs in Surface Soil CB-4/4A and CA-6/6A (continued)

Analyte	Results > Detection Limit	Average Result[a]	Minimum Detect	Maximum Detect	Site Background Criteria[b]	SRC?
Heptachlor	2/ 17	0.03513	0.0072	0.32		Yes
Heptachlor epoxide	1/ 17	0.02047	0.031	0.031		Yes
Methoxychlor	1/ 17	0.03769	0.014	0.014		Yes
PCB-1016	1/ 17	2.418	0.14	0.14		Yes
PCB-1254	15/ 17	69.92	0.053	1,100		Yes
alpha-Chlordane	1/ 17	0.03334	0.44	0.44		Yes
beta-BHC	1/ 17	0.01921	0.0097	0.0097		Yes
gamma-Chlordane	5/ 17	0.3464	0.006	5.3		Yes
Organics–Semivolatile (mg/kg)						
2-Methylnaphthalene	2/ 18	0.3582	0.041	0.077		Yes
Acenaphthene	1/ 18	0.375	0.23	0.23		Yes
Anthracene	2/ 18	0.36	0.21	0.55		Yes
Benz(a)anthracene	4/ 18	0.4329	0.061	1.2		Yes
Benzo(a)pyrene	4/ 18	0.413	0.06	1		Yes
Benzo(b)fluoranthene	6/ 18	0.4399	0.042	1.4		Yes
Benzo(ghi)perylene	3/ 18	0.3663	0.074	0.55		Yes
Benzo(k)fluoranthene	3/ 18	0.3718	0.053	0.58		Yes
Bis(2-ethylhexyl)phthalate	4/ 18	0.3513	0.079	0.11		Yes
Butyl benzyl phthalate	1/ 18	0.3658	0.05	0.05		Yes
Carbazole	1/ 18	0.3833	0.38	0.38		Yes
Chrysene	4/ 18	0.4299	0.095	1.1		Yes
Dibenz(a,h)anthracene	1/ 18	0.3676	0.096	0.096		Yes
Dibenzofuran	1/ 18	0.3728	0.19	0.19		Yes
Fluoranthene	8/ 18	0.5488	0.056	2.9		Yes
Fluorene	1/ 18	0.3794	0.31	0.31		Yes
Indeno(1,2,3-cd)pyrene	3/ 18	0.3726	0.076	0.62		Yes
Naphthalene	1/ 18	0.3744	0.22	0.22		Yes
Phenanthrene	5/ 18	0.49	0.046	2.5		Yes
Phenol	1/ 18	0.3653	0.05	0.05		Yes
Pyrene	5/ 18	0.5389	0.07	2.3		Yes
Organics–Volatile (mg/kg)						
1,2-Dichloroethene	17/ 18	0.006294	0.0007	0.018		Yes
Acetone	2/ 18	0.00695	0.0086	0.011		Yes
Methylene chloride	2/ 18	0.003028	0.0017	0.0033		Yes
Trichloroethene	2/ 18	0.003264	0.0026	0.0067		Yes

[a] One-half of the detection limit was used as a surrogate value for non-detects in calculating the average result.
[b] Background criteria were set to zero for inorganic compounds that were not detected in the background samples. Organic compounds were considered non-naturally occurring; therefore, no background criteria are established for these classes of compounds.
PCB = polychlorinated biphenyl.
SRC = site-related contaminant.

Table 4-6. Summary Statistics and Determination of SRCs in Surface Soil Change Houses (CB-12, -23, -8, -22)

Analyte	Results > Detection Limit	Average Result[a]	Minimum Detect	Maximum Detect	Site Background Criteria[b]	SRC?
Inorganics (mg/kg)						
Aluminum	21/ 21	6,916	3,650	16,800	17,700	No
Antimony	3/ 21	1.251	0.9	12.9	0.96	Yes
Arsenic	21/ 21	10.41	2.5	27.8	15.4	Yes
Barium	21/ 21	57.39	18	183	88.4	Yes
Beryllium	3/ 21	0.2545	0.45	1.2	0.88	Yes
Cadmium	15/ 21	1.625	0.14	11.1	0	Yes
Calcium	21/ 21	10,540	358	179,000	15,800	No
Chromium	21/ 21	12.81	6.4	26.5	17.4	Yes
Cobalt	21/ 21	6.229	1.9	15.1	10.4	Yes
Copper	21/ 21	19.78	5.7	51.1	17.7	Yes
Cyanide	1/ 21	0.449	3	3	0	No
Iron	21/ 21	16,090	3,190	28,500	23,100	No
Lead	21/ 21	114.7	16.9	532	26.1	Yes
Magnesium	21/ 21	1,922	771	11,800	3,030	No
Manganese	21/ 21	668.6	67.8	2,040	1,450	Yes
Mercury	8/ 15	0.08433	0.028	0.29	0.036	Yes
Nickel	21/ 21	14.21	3.5	23.1	21.1	Yes
Potassium	21/ 21	847.5	513	1,490	927	No
Selenium	7/ 21	0.4757	0.53	1.3	1.4	No
Silver	1/ 21	0.6286	0.35	0.35	0	No
Sodium	1/ 21	304.4	426	426	123	No
Thallium	5/ 21	0.3076	0.29	0.73	0	Yes
Vanadium	21/ 21	12.79	5.1	39.3	31.1	Yes
Zinc	21/ 21	268.6	34.3	1,590	61.8	Yes
Organics–Pesticide/PCB (mg/kg)						
4,4'-DDE	1/ 2	0.001325	0.0016	0.0016		Yes
Endrin aldehyde	1/ 1	0.0014	0.0014	0.0014		Yes
PCB-1254	2/ 2	0.0765	0.043	0.11		Yes
Organics–Semivolatile (mg/kg)						
Benz(a)anthracene	2/ 2	0.061	0.05	0.072		Yes
Benzo(a)pyrene	2/ 2	0.076	0.06	0.092		Yes
Benzo(b)fluoranthene	2/ 2	0.117	0.084	0.15		Yes
Benzo(ghi)perylene	1/ 2	0.152	0.074	0.074		Yes
Benzo(k)fluoranthene	1/ 2	0.1475	0.065	0.065		Yes
Bis(2-ethylhexyl)phthalate	1/ 2	0.1435	0.057	0.057		Yes
Chrysene	2/ 2	0.086	0.062	0.11		Yes
Fluoranthene	2/ 2	0.1315	0.093	0.17		Yes
Indeno(1,2,3-cd)pyrene	1/ 2	0.1525	0.075	0.075		Yes
Phenanthrene	2/ 2	0.078	0.046	0.11		Yes
Pyrene	2/ 2	0.095	0.07	0.12		Yes
Organics–Volatile (mg/kg)						
Methylene chloride	2/ 2	0.00145	0.001	0.0019		Yes
Toluene	2/ 2	0.0023	0.0015	0.0031		Yes

[a] One-half of the detection limit was used as a surrogate value for non-detects in calculating the average result.
[b] Background criteria were set to zero for inorganic compounds that were not detected in the background samples. Organic compounds were considered non-naturally occurring; therefore, no background criteria are established for these classes of compounds.
PCB = polychlorinated biphenyl.
SRC = site-related contaminant.

Table 4-7. Summary Statistics and Determination of SRCs in Surface Soil Perimeter Area

Analyte	Results > Detection Limit	Average Result[a]	Minimum Detect	Maximum Detect	Site Background Criteria[b]	SRC?
Inorganics (mg/kg)						
Chromium, hexavalent	1/ 5	0.81	1.5	1.5	0	Yes
Aluminum	26/ 26	13,060	8,840	21,300	17,700	Yes
Antimony	2/ 26	0.6308	0.74	0.81	0.96	No
Arsenic	26/ 26	11.36	7.5	24.6	15.4	Yes
Barium	26/ 26	83.08	51.8	144	88.4	Yes
Beryllium	20/ 26	0.4329	0.27	0.82	0.88	No
Cadmium	10/ 26	0.2374	0.052	0.32	0	Yes
Calcium	22/ 26	2,016	118	33,900	15,800	No
Chromium	26/ 26	15.6	10.8	25.2	17.4	Yes
Cobalt	26/ 26	9.846	4.9	20.5	10.4	Yes
Copper	26/ 26	10.83	5.1	19.6	17.7	Yes
Cyanide	3/ 24	0.4296	0.75	1.7	0	Yes
Iron	26/ 26	22,090	14,900	33,400	23,100	No
Lead	26/ 26	19.19	12.7	34.5	26.1	Yes
Magnesium	26/ 26	1,778	919	3,160	3,030	No
Manganese	26/ 26	915.3	99	2,340	1,450	Yes
Mercury	26/ 26	0.05408	0.019	0.093	0.036	Yes
Nickel	26/ 26	14.62	8.9	22.8	21.1	Yes
Potassium	26/ 26	886.5	369	1,450	927	No
Selenium	13/ 26	0.6435	0.46	1.7	1.4	Yes
Thallium	26/ 26	0.5954	0.4	0.86	0	Yes
Vanadium	26/ 26	26.62	19.8	46.3	31.1	Yes
Zinc	26/ 26	58.4	37.4	78.3	61.8	Yes
Organics–Semivolatile (mg/kg)						
Benzo(b)fluoranthene	1/ 2	0.1235	0.042	0.042		Yes
Fluoranthene	1/ 2	0.131	0.057	0.057		Yes
Organics–Volatile (mg/kg)						
1,2-Dichloroethene	2/ 2	0.0035	0.0029	0.0041		Yes
Trichloroethene	2/ 2	0.0045	0.0024	0.0066		Yes

[a] One-half of the detection limit was used as a surrogate value for non-detects in calculating the average result.
[b] Background criteria were set to zero for inorganic compounds that were not detected in the background samples. Organic compounds were considered non-naturally occurring; therefore, no background criteria are established for these classes of compounds.
SRC = site-related contaminant.

Table 4-8. Summary Statistics and Determination of SRCs in Surface Soil Railroad Bed Locations

Analyte	Results > Detection Limit	Average Result[a]	Minimum Detect	Maximum Detect	Site Background Criteria[b]	SRC?
Inorganics (mg/kg)						
Aluminum	2/ 2	6,025	5,550	6,500	17,700	No
Arsenic	2/ 2	9	7.7	10.3	15.4	No
Barium	2/ 2	70.55	49.3	91.8	88.4	Yes
Beryllium	2/ 2	0.495	0.4	0.59	0.88	No
Cadmium	1/ 2	0.1835	0.082	0.082	0	Yes
Calcium	2/ 2	12,430	4,960	19,900	15,800	No
Chromium	2/ 2	9.7	9.3	10.1	17.4	No
Cobalt	2/ 2	5.25	5	5.5	10.4	No
Copper	2/ 2	7.9	7.9	7.9	17.7	No
Iron	2/ 2	19,750	15,400	24,100	23,100	No
Lead	2/ 2	13.25	10.4	16.1	26.1	No
Magnesium	2/ 2	2,025	1,390	2,660	3,030	No
Manganese	2/ 2	1,079	818	1,340	1,450	No
Nickel	2/ 2	11.45	11.1	11.8	21.1	No
Potassium	2/ 2	860	835	885	927	No
Sodium	1/ 2	199	112	112	123	No
Thallium	2/ 2	0.415	0.41	0.42	0	Yes
Vanadium	2/ 2	9.9	9.8	10	31.1	No
Zinc	2/ 2	85.45	49.9	121	61.8	Yes

[a] One-half of the detection limit was used as a surrogate value for non-detects in calculating the average result.
[b] Background criteria were set to zero for inorganic compounds that were not detected in the background samples. Organic compounds were considered non-naturally occurring; therefore, no background criteria are established for these classes of compounds.
SRC = site-related contaminant.

Table 4-9. Summary Statistics and Determination of SRCs in Surface Soil Water Tower

Analyte	Results > Detection Limit	Average Result[a]	Minimum Detect	Maximum Detect	Site Background Criteria[b]	SRC?
Inorganics (mg/kg)						
Aluminum	5/ 5	11,270	7,240	13,300	17,700	No
Antimony	1/ 5	0.84	1.9	1.9	0.96	Yes
Arsenic	5/ 5	12.6	11.5	14	15.4	No
Barium	5/ 5	70.3	64.7	77.3	88.4	No
Beryllium	5/ 5	0.638	0.42	0.92	0.88	Yes
Cadmium	4/ 5	0.232	0.11	0.29	0	Yes
Calcium	5/ 5	2,454	1,400	3,320	15,800	No
Chromium	5/ 5	96.5	17.9	385	17.4	Yes
Cobalt	5/ 5	12.46	8.7	18.2	10.4	Yes
Copper	5/ 5	26.98	12.3	51.3	17.7	Yes
Iron	5/ 5	29,700	21,800	48,500	23,100	No
Lead	5/ 5	608.7	18.4	2,510	26.1	Yes
Magnesium	5/ 5	2,302	1,820	2,880	3,030	No
Manganese	5/ 5	504.8	408	687	1,450	No
Mercury	3/ 5	0.0388	0.037	0.057	0.036	Yes
Nickel	5/ 5	26.58	16.8	32.4	21.1	Yes
Potassium	5/ 5	1,614	1,340	2,320	927	No
Sodium	1/ 5	105.6	108	108	123	No
Thallium	5/ 5	0.578	0.49	0.67	0	Yes
Vanadium	5/ 5	19.98	14.1	23.9	31.1	No
Zinc	5/ 5	242	54.1	933	61.8	Yes

[a] One-half of the detection limit was used as a surrogate value for non-detects in calculating the average result.
[b] Background criteria were set to zero for inorganic compounds that were not detected in the background samples. Organic compounds were considered non-naturally occurring; therefore, no background criteria are established for these classes of compounds.
SRC = site-related contaminant.

Table 4-10. Summary Statistics and Determination of SRCs in Subsurface Soil, CB-13, and CB-10

Analyte	Results > Detection Limit	Average Result[a]	Minimum Detect	Maximum Detect	Site Background Criteria[b]	SRC?
Explosives (mg/kg)						
2,4-Dinitrotoluene	1/ 2	0.11	0.09	0.09		Yes
Nitrocellulose	1/ 2	15.15	29.30	29.30		Yes
Inorganics (mg/kg)						
Aluminum	5/ 5	9,310.00	5,760.00	16,000.00	19,500.00	No
Antimony	1/ 5	20.08	98.10	98.10	0.96	Yes
Arsenic	5/ 5	11.00	9.10	13.60	19.80	No
Barium	5/ 5	78.14	33.30	153.00	124.00	Yes
Beryllium	4/ 5	0.40	0.27	0.63	0.88	No
Cadmium	5/ 5	5.38	0.08	26.20	0	Yes
Calcium	5/ 5	10,580.00	6,140.00	14,900.00	35,500.00	No
Chromium	5/ 5	28.98	7.60	85.80	27.20	Yes
Cobalt	5/ 5	7.14	5.00	9.90	23.20	No
Copper	5/ 5	48.30	13.80	175.00	32.30	Yes
Iron	5/ 5	20,500.00	14,900.00	25,200.00	35,200.00	No
Lead	5/ 5	146.70	10.90	680.00	19.10	Yes
Magnesium	5/ 5	3,350.00	2,800.00	3,850.00	8,790.00	No
Manganese	5/ 5	579.60	309.00	881.00	3,030.00	No
Mercury	4/ 5	0.04	0.01	0.14	0.04	Yes
Nickel	5/ 5	17.54	11.30	26.40	60.70	No
Potassium	5/ 5	1,435.00	761.00	2,820.00	3,350.00	No
Selenium	2/ 5	0.61	0.42	1.80	1.50	Yes
Silver	1/ 5	0.56	0.52	0.52	0	Yes
Sodium	2/ 5	99.24	72.20	81.00	145.00	No
Thallium	5/ 5	0.49	0.19	0.73	0.91	No
Vanadium	5/ 5	16.12	8.20	31.60	37.60	No
Zinc	5/ 5	884.00	55.30	4,160.00	93.30	Yes

[a] One-half of the detection limit was used as a surrogate value for non-detects in calculating the average result.
[b] Background criteria were set to zero for inorganic compounds that were not detected in the background samples. Organic compounds were considered non-naturally occurring; therefore, no background criteria are established for these classes of compounds.
SRC = site-related contaminant.

Table 4-11. Summary Statistics and Determination of SRCs in Subsurface Soil, CB-14, CB-17, and CA-15

Analyte	Results > Detection Limit	Average Result[a]	Minimum Detect	Maximum Detect	Site Background Criteria[b]	SRC?
Explosives (mg/kg)						
2,4,6-Trinitrotoluene	1/ 1	0.09	0.09	0.09		Yes
2,4-Dinitrotoluene	1/ 1	0.13	0.13	0.13		Yes
Nitrocellulose	1/ 1	8.80	8.80	8.80		Yes
Inorganics (mg/kg)						
Aluminum	2/ 2	8,355.00	1,610.00	15,100.00	19,500.00	No
Arsenic	2/ 2	10.40	5.90	14.90	19.80	No
Barium	2/ 2	56.25	36.00	76.50	124.00	No
Beryllium	1/ 2	0.27	0.48	0.48	0.88	No
Cadmium	1/ 2	1.55	2.80	2.80	0	Yes
Calcium	2/ 2	831.50	543.00	1,120.00	35,500.00	No
Chromium	2/ 2	13.65	8.30	19.00	27.20	No
Cobalt	2/ 2	6.65	3.20	10.10	23.20	No
Copper	2/ 2	17.25	16.80	17.70	32.30	No
Iron	2/ 2	19,650.00	11,100.00	28,200.00	35,200.00	No
Lead	2/ 2	286.60	15.20	558.00	19.10	Yes
Magnesium	2/ 2	1,567.00	423.00	2,710.00	8,790.00	No
Manganese	2/ 2	467.00	463.00	471.00	3,030.00	No
Mercury	1/ 2	0.03	0.03	0.03	0.04	No
Nickel	2/ 2	13.90	8.20	19.60	60.70	No
Potassium	2/ 2	831.00	292.00	1,370.00	3,350.00	No
Selenium	1/ 2	0.37	0.44	0.44	1.50	No
Thallium	2/ 2	0.53	0.38	0.68	0.91	No
Vanadium	2/ 2	16.85	5.60	28.10	37.60	No
Zinc	2/ 2	106.70	58.30	155.00	93.30	Yes

[a] One-half of the detection limit was used as a surrogate value for non-detects in calculating the average result.
[b] Background criteria were set to zero for inorganic compounds that were not detected in the background samples. Organic compounds were considered non-naturally occurring; therefore, no background criteria are established for these classes of compounds.
SRC = site-related contaminant.

Table 4-12. Summary Statistics and Determination of SRCs in Subsurface Soil, CB-4/4A, and CA-6/6A

Analyte	Results > Detection Limit	Average Result[a]	Minimum Detect	Maximum Detect	Site Background Criteria[b]	SRC?
Explosives (mg/kg)						
1,3,5-Trinitrobenzene	1/ 13	6.86	11.00	11.00		Yes
2,4,6-Trinitrotoluene	12/ 13	391.20	0.07	4,500.00		Yes
2,6-Dinitrotoluene	1/ 13	6.97	0.14	0.14		Yes
2-Amino-4,6-dinitrotoluene	8/ 13	7.06	0.10	2.00		Yes
4-Amino-2,6-dinitrotoluene	6/ 13	7.92	0.15	0.84		Yes
HMX	2/ 13	14.31	0.62	8.10		Yes
Nitrocellulose	7/ 12	4.50	0.70	29.30		Yes
RDX	4/ 13	18.67	0.27	58.00		Yes
Inorganics (mg/kg)						
Chromium, hexavalent	1/ 15	1.45	13.60	13.60	0	Yes
Aluminum	21/ 21	9,420.00	492.00	16,600.00	19,500.00	No
Antimony	1/ 21	0.60	0.66	0.66	0.96	No
Arsenic	21/ 21	10.16	2.40	16.60	19.80	No
Barium	21/ 21	72.14	7.10	252.00	124.00	Yes
Beryllium	13/ 21	0.42	0.30	1.50	0.88	Yes
Cadmium	8/ 21	1.35	0.15	9.90	0	Yes
Calcium	21/ 21	7,839.00	284.00	53,800.00	35,500.00	No
Chromium	21/ 21	15.18	1.50	67.40	27.20	Yes
Cobalt	21/ 21	6.53	0.55	18.80	23.20	No
Copper	21/ 21	43.19	2.50	416.00	32.30	Yes
Cyanide	2/ 14	0.38	0.63	1.20	0	Yes
Iron	21/ 21	19,120.00	2,450.00	42,300.00	35,200.00	No
Lead	21/ 21	59.99	8.40	254.00	19.10	Yes
Magnesium	21/ 21	2,379.00	110.00	8,790.00	8,790.00	No
Manganese	21/ 21	479.60	50.90	1,290.00	3,030.00	No
Mercury	17/ 21	0.09	0.02	0.78	0.04	Yes
Nickel	21/ 21	14.81	1.40	49.80	60.70	No
Potassium	20/ 21	869.40	199.00	1,690.00	3,350.00	No
Selenium	7/ 21	0.60	0.53	1.70	1.50	Yes
Sodium	3/ 21	194.00	79.20	370.00	145.00	No
Thallium	20/ 21	0.48	0.25	0.77	0.91	No
Vanadium	21/ 21	16.26	1.20	33.60	37.60	No
Zinc	20/ 20	120.60	18.60	395.00	93.30	Yes

[a] One-half of the detection limit was used as a surrogate value for non-detects in calculating the average result.
[b] Background criteria were set to zero for inorganic compounds that were not detected in the background samples. Organic compounds were considered non-naturally occurring; therefore, no background criteria are established for these classes of compounds.
SRC = site-related contaminant.

Table 4-13. Summary Statistics and Determination of SRCs in Subsurface Soil, Perimeter Area

Analyte	Results > Detection Limit	Average Result[a]	Minimum Detect	Maximum Detect	Site Background Criteria[b]	SRC?
Inorganics (mg/kg)						
Aluminum	1/ 1	18,400.00	18,400.00	18,400.00	19,500.00	No
Arsenic	1/ 1	13.00	13.00	13.00	19.80	No
Barium	1/ 1	73.90	73.90	73.90	124.00	No
Beryllium	1/ 1	0.55	0.55	0.55	0.88	No
Calcium	1/ 1	496.00	496.00	496.00	35,500.00	No
Chromium	1/ 1	23.10	23.10	23.10	27.20	No
Cobalt	1/ 1	7.20	7.20	7.20	23.20	No
Copper	1/ 1	18.50	18.50	18.50	32.30	No
Iron	1/ 1	29,300.00	29,300.00	29,300.00	35,200.00	No
Lead	1/ 1	13.10	13.10	13.10	19.10	No
Magnesium	1/ 1	3,130.00	3,130.00	3,130.00	8,790.00	No
Manganese	1/ 1	169.00	169.00	169.00	3,030.00	No
Nickel	1/ 1	21.20	21.20	21.20	60.70	No
Potassium	1/ 1	2,300.00	2,300.00	2,300.00	3,350.00	No
Thallium	1/ 1	0.64	0.64	0.64	0.91	No
Vanadium	1/ 1	30.90	30.90	30.90	37.60	No
Zinc	1/ 1	54.60	54.60	54.60	93.30	No

[a] One-half of the detection limit was used as a surrogate value for non-detects in calculating the average result.
[b] Background criteria were set to zero for inorganic compounds that were not detected in the background samples. Organic compounds were considered non-naturally occurring; therefore, no background criteria are established for these classes of compounds.
SRC = site-related contaminant.

Table 4-14. Summary Statistics and Determination of SRCs in Subsurface Soil, Railroad Bed Locations

Analyte	Results > Detection Limit	Average Result[a]	Minimum Detect	Maximum Detect	Site Background Criteria[b]	SRC?
Explosives (mg/kg)						
3-Nitrotoluene	1/ 5	0.13	0.17	0.17		Yes
Metals						
Aluminum	8/ 8	4,679.00	2,810.00	7,540.00	19,500.00	No
Arsenic	8/ 8	5.31	3.60	10.30	19.80	No
Barium	8/ 8	40.83	26.20	58.50	124.00	No
Beryllium	6/ 8	0.32	0.24	0.77	0.88	No
Cadmium	5/ 8	0.15	0.07	0.10	0	Yes
Calcium	8/ 8	8,538.00	2,970.00	23,100.00	35,500.00	No
Chromium	8/ 8	6.59	5.20	9.20	27.20	No
Cobalt	8/ 8	3.73	2.60	5.30	23.20	No
Copper	8/ 8	7.53	4.60	17.60	32.30	No
Iron	8/ 8	13,690.00	8,320.00	19,600.00	35,200.00	No
Lead	8/ 8	9.78	4.00	13.40	19.10	No
Magnesium	8/ 8	1,682.00	739.00	3,710.00	8,790.00	No
Manganese	8/ 8	643.10	298.00	781.00	3,030.00	No
Mercury	3/ 8	0.04	0.01	0.01	0.04	No
Nickel	8/ 8	7.95	5.00	12.80	60.70	No
Potassium	8/ 8	633.00	471.00	1,020.00	3,350.00	No
Selenium	1/ 8	0.28	0.35	0.35	1.50	No
Thallium	6/ 8	0.27	0.13	0.46	0.91	No
Vanadium	8/ 8	7.54	6.00	11.70	37.60	No
Zinc	8/ 8	52.48	16.20	99.60	93.30	Yes

[a] One-half of the detection limit was used as a surrogate value for non-detects in calculating the average result.
[b] Background criteria were set to zero for inorganic compounds that were not detected in the background samples. Organic compounds were considered non-naturally occurring; therefore, no background criteria are established for these classes of compounds.
SRC = site-related contaminant.

Table 4-15. Summary Statistics and Determination of SRCs in Sediment, Outlets A and B

Analyte	Results > Detection Limit	Average Result[a]	Minimum Detect	Maximum Detect	Site Background Criteria[b]	SRC?
Explosives (mg/kg)						
1,3,5-Trinitrobenzene	1/ 4	0.139	0.18	0.18		Yes
2,4,6-Trinitrotoluene	1/ 4	0.231	0.55	0.55		Yes
2,4-Dinitrotoluene	2/ 4	0.66	0.39	2		Yes
2-Amino-4,6-Dinitrotoluene	1/ 4	0.271	0.71	0.71		Yes
2-Nitrotoluene	1/ 4	0.141	0.19	0.19		Yes
4-Amino-2,6-Dinitrotoluene	1/ 4	0.296	0.81	0.81		Yes
HMX	1/ 4	0.33	0.57	0.57		Yes
Nitrocellulose	3/ 4	101.3	4.2	333		Yes
Inorganics (mg/kg)						
Aluminum	9/ 9	10,640	38,50.0	15,700	13,900	Yes
Antimony	6/ 9	1.99	0.82	7.4	0	Yes
Arsenic	9/ 9	13.97	9.4	28.7	19.5	Yes
Barium	9/ 9	100.7	35.5	153	123	Yes
Beryllium	5/ 9	0.64	0.45	1.10	0.38	Yes
Cadmium	8/ 9	2.81	0.15	15	0	Yes
Calcium	9/ 9	6,120	1,390	11,400	5,510	No
Chromium	9/ 9	32.96	9.40	154	18.1	Yes
Chromium, hexavalent	1/ 2	3.13	5.4	5.4	0	Yes
Cobalt	9/ 9	10.04	5.2	17.5	9.1	Yes
Copper	9/ 9	71.92	15.40	434	27.6	Yes
Iron	9/ 9	24,380	15,800	46,300	28,200	No
Lead	9/ 9	263.4	32.9	1,140	27.4	Yes
Magnesium	9/ 9	3,334	949	15,900	2,760	No
Manganese	9/ 9	1,055	277	1,840	1,950	No
Mercury	9/ 9	0.17	0.03	0.54	0.06	Yes
Nickel	9/ 9	28.88	13.2	104	17.7	Yes
Potassium	9/ 9	1,091	294	1,950	1,950	No
Selenium	7/ 9	1.77	1.2	3.8	1.7	Yes
Sodium	4/ 9	255.20	108	540	112	No
Thallium	9/ 9	0.72	0.41	1.10	0.89	Yes
Vanadium	9/ 9	24.73	13.8	33.90	26.1	Yes
Zinc	9/ 9	510	85.6	2,610	532	Yes
Organics-Pesticide/PCB (mg/kg)						
Endrin	1/ 2	0.04	0.05	0.05		Yes
PCB-1254	2/ 2	0.35	0.09	0.61		Yes
gamma-Chlordane	1/ 2	0.02	0.03	0.03		Yes
Organics-Semivolatile (mg/kg)						
Acenaphthene	1/ 2	0.51	0.7	0.7		Yes
Anthracene	1/ 2	1.26	2.2	2.2		Yes
Benz(a)anthracene	2/ 2	4.65	0.1	9.2		Yes
Benzo(a)pyrene	2/ 2	4.8	0.1	9.5		Yes
Benzo(b)fluoranthene	2/ 2	6.07	0.14	12		Yes

Table 4-15. Summary Statistics and Determination of SRCs in Sediment, Outlets A and B (continued)

Analyte	Results > Detection Limit	Average Result[a]	Minimum Detect	Maximum Detect	Site Background Criteria[b]	SRC?
Benzo(ghi)perylene	1/ 2	2.91	5.5	5.5		Yes
Benzo(k)fluoranthene	1/ 2	2.86	5.4	5.4		Yes
Carbazole	1/ 2	0.96	1.6	1.6		Yes
Chrysene	2/ 2	4.77	0.14	9.4		Yes
Di-n-butyl phthalate	1/ 2	0.51	0.71	0.71		Yes
Dibenz(a,h)anthracene	1/ 2	1.01	1.7	1.7		Yes
Dibenzofuran	1/ 2	0.36	0.41	0.41		Yes
Fluoranthene	2/ 2	12.6	0.19	25		Yes
Fluorene	1/ 2	0.71	1.1	1.1		Yes
Indeno(1,2,3-cd)pyrene	1/ 2	3.51	6.7	6.7		Yes
Naphthalene	1/ 2	0.35	0.39	0.39		Yes
Phenanthrene	1/ 2	6.16	12	12		Yes
Pyrene	2/ 2	7.58	0.16	15		Yes
Organics-Volatile (mg/kg)						
1,2-Dichloroethene	2/ 2	0.005	0.002	0.008		Yes
Toluene	1/ 2	0.003	0.003	0.003		Yes
Trichloroethene	1/ 2	0.008	0.012	0.012		Yes

[a] One-half of the detection limit was used as a surrogate value for non-detects in calculating the average result.
[b] Background criteria were set to zero for inorganic compounds that were not detected in the background samples.
Organic compounds were considered non-naturally occurring; therefore, no background criteria are established for these classes of compounds.
PCB = polychlorinated biphenyl.
SRC = site-related contaminant.

Table 4-16. Summary Statistics and Determination of SRCs in Sediment, Outlet C and Charlie's Pond

Analyte	Results > Detection Limit	Average Result[a]	Minimum Detect	Maximum Detect	Site Background Criteria[b]	SRC?
Explosives (mg/kg)						
2,4,6-Trinitrotoluene	2/ 5	0.257	0.370	0.540		Yes
2,6-Dinitrotoluene	1/ 5	0.128	0.140	0.140		Yes
2-Amino-4,6-Dinitrotoluene	2/ 5	0.201	0.190	0.440		Yes
4-Amino-2,6-Dinitrotoluene	2/ 5	0.239	0.370	0.450		Yes
Inorganics (mg/kg)						
Aluminum	8/ 8	9,441	5,330	13,600	13,900	No
Antimony	1/ 8	0.8	1.2	1.2	0.0	Yes
Arsenic	8/ 8	15.4	7.6	50.5	19.5	Yes
Barium	8/ 8	87.5	57.9	151	123	Yes
Beryllium	7/ 8	0.6	0.5	0.9	0.4	Yes
Cadmium	7/ 8	0.7	0.1	1.4	0.0	Yes
Calcium	8/ 8	3,939	881	8,450	5,510	No
Chromium	8/ 8	13.1	9.5	21.3	18.1	Yes
Cobalt	8/ 8	8.2	6	11	9.1	Yes
Copper	8/ 8	15.5	13.4	20.3	27.6	No
Iron	8/ 8	17,910	12,400	24,600	28,200	No
Lead	8/ 8	29.2	18.3	55.7	27.4	Yes
Magnesium	7/ 8	1,494	1,120	2,330	2,760	No
Manganese	7/ 7	930.9	237	2,350	1,950	Yes
Mercury	8/ 8	0.1	0.03	0.1	0.1	Yes
Nickel	8/ 8	18.6	13.2	28.4	17.7	Yes
Potassium	8/ 8	909.5	679	1,500	1,950	No
Selenium	7/ 8	1.4	0.6	3.6	1.7	Yes
Sodium	1/ 8	342.2	84.3	84.3	112	No
Thallium	7/ 8	0.6	0.5	0.9	0.9	No
Vanadium	8/ 8	18.7	13.2	26	26.1	No
Zinc	8/ 8	142.8	71.4	215	532	No
Organics-Pesticide/PCB (mg/kg)						
4,4'-DDE	1/ 2	0.012	0.022	0.022		Yes
PCB-1254	1/ 2	0.447	0.87	0.87		Yes
Organics-Semivolatile (mg/kg)						
Benz(a)anthracene	2/ 2	0.067	0.056	0.077		Yes
Benzo(a)pyrene	2/ 2	0.07	0.056	0.084		Yes
Benzo(b)fluoranthene	2/ 2	0.126	0.071	0.18		Yes
Benzo(ghi)perylene	1/ 2	0.147	0.058	0.058		Yes
Benzo(k)fluoranthene	1/ 2	0.145	0.054	0.054		Yes
Chrysene	1/ 2	0.183	0.13	0.13		Yes
Fluoranthene	2/ 2	0.107	0.073	0.140		Yes
Indeno(1,2,3-cd)pyrene	1/ 2	0.156	0.076	0.076		Yes
Phenanthrene	1/ 2	0.147	0.059	0.059		Yes
Pyrene	1/ 2	0.193	0.15	0.15		Yes
Organics-Volatile (mg/kg)						
1,2-Dichloroethene	1/ 2	0.007	0.01	0.01		Yes
Acetone	1/ 2	0.008	0.01	0.01		Yes

[a] One-half of the detection limit was used as a surrogate value for non-detects in calculating the average result.
[b] Background criteria were set to zero for inorganic compounds that were not detected in the background samples. Organic compounds were considered non-naturally occurring; therefore, no background criteria are established for these classes of compounds.
PCB = polychlorinated biphenyl.
SRC = site-related contaminant.

Table 4-17. Summary Statistics and Determination of SRCs in Sediment, Outlets D, E, and F and Criggy's Pond

Analyte	Results > Detection Limit	Average Result[a]	Minimum Detect	Maximum Detect	Site Background Criteria[b]	SRC?
Explosives (mg/kg)						
2,4-Dinitrotoluene	1/ 2	0.098	0.07	0.07		Yes
Nitrobenzene	1/ 2	0.133	0.14	0.14		Yes
Inorganics (mg/kg)						
Aluminum	6/ 6	8,913	5,260	13,300	13,900	No
Antimony	4/ 6	198.6	2	1,180	0.0	Yes
Arsenic	6/ 6	14.6	9.5	21	19.5	Yes
Barium	6/ 6	111.2	64.3	168	123	Yes
Beryllium	3/ 6	0.5	0.6	1.1	0.4	Yes
Cadmium	6/ 6	1.5	0.7	2.4	0.0	Yes
Calcium	6/ 6	3,909	985	6,170	5,510	No
Chromium	6/ 6	38.7	11.4	124	18.1	Yes
Chromium, hexavalent	1/ 1	11	11	11	0.0	Yes
Cobalt	6/ 6	12.4	6.1	17	9.1	Yes
Copper	6/ 6	308.7	9.5	1,020	27.6	Yes
Iron	6/ 6	26,150	17,700	32,200	28,200	No
Lead	6/ 6	244.8	21.5	1,210	27.4	Yes
Magnesium	6/ 6	1,504	922	2,350	2,760	No
Manganese	6/ 6	1,741	496	3,380	1,950	Yes
Mercury	6/ 6	0.2	0.041	0.4	0.1	Yes
Nickel	6/ 6	28.1	16.7	43.4	17.7	Yes
Potassium	6/ 6	782.3	589	1,120	1,950	No
Selenium	4/ 6	1.4	1.5	2.2	1.7	Yes
Sodium	2/ 6	271.7	71.4	84.8	112	No
Thallium	6/ 6	0.6	0.6	0.7	0.9	No
Vanadium	6/ 6	21.2	13.4	31.8	26.1	Yes
Zinc	6/ 6	458.5	80.8	805	532	Yes

[a] One-half of the detection limit was used as a surrogate value for non-detects in calculating the average result.
[b] Background criteria were set to zero for inorganic compounds that were not detected in the background samples. Organic compounds were considered non-naturally occurring; therefore, no background criteria are established for these classes of compounds.
SRC = site-related contaminant.

Table 4-18. Summary Statistics and Determination of SRCs in Sediment, Sewer Lines

Analyte	Results > Detection Limit	Average Result[a]	Minimum Detect	Maximum Detect	Site Background Criteria[b]	SRC?
Explosives (mg/kg)						
1,3,5-Trinitrobenzene	2/ 5	0.118	0.093	0.12		Yes
1,3-Dinitrobenzene	2/ 5	0.128	0.054	0.21		Yes
2,4,6-Trinitrotoluene	3/ 5	0.872	0.11	2.80		Yes
2,4-Dinitrotoluene	1/ 5	0.163	0.31	0.31		Yes
2,6-Dinitrotoluene	1/ 5	0.145	0.13	0.13		Yes
2-Amino-4,6-Dinitrotoluene	2/ 5	0.463	0.44	1.50		Yes
4-Amino-2,6-Dinitrotoluene	2/ 5	0.565	0.75	1.70		Yes
Nitrobenzene	1/ 5	0.146	0.23	0.23		Yes
Nitrocellulose	4/ 5	2.916	0.48	5.80		Yes
Tetryl	1/ 5	0.374	0.57	0.57		Yes
Inorganics (mg/kg)						
Aluminum	5/ 5	6,160	5,410	7,430	13,900	No
Antimony	1/ 5	37.9	185	185	0.0	Yes
Arsenic	5/ 5	19	7.9	39	19.5	Yes
Barium	5/ 5	137.3	45.5	276	123	Yes
Beryllium	1/ 5	0.2	0.5	0.5	0.4	Yes
Cadmium	5/ 5	2.2	0.5	3.5	0.0	Yes
Calcium	5/ 5	12,550	5,570	18,500	5,510	No
Chromium	5/ 5	42.3	16.6	72.8	18.1	Yes
Cobalt	5/ 5	9.1	6.4	11.1	9.1	Yes
Copper	5/ 5	214.2	41.6	638.0	27.6	Yes
Iron	5/ 5	79,900	20,000	122,000	28,200	No
Lead	5/ 5	181	28	306	27.4	Yes
Magnesium	5/ 5	2,028	1,360	2,940	2,760	No
Manganese	5/ 5	903.8	431	1,260	1,950	No
Mercury	5/ 5	0.4	0.1	1.3	0.1	Yes
Nickel	5/ 5	47.6	18.7	93.6	17.7	Yes
Potassium	4/ 5	709.3	583	1,030	1,950	No
Selenium	3/ 5	1.7	0.8	3	1.7	Yes
Silver	3/ 5	1.2	0.2	3	0.0	Yes
Sodium	1/ 5	345.1	160	160	112	No
Thallium	5/ 5	0.6	0.4	0.8	0.9	No
Vanadium	5/ 5	24	14.8	49.5	26.1	Yes
Zinc	5/ 5	994.4	172	2,480	532	Yes
Organics-Pesticide/PCB (mg/kg)						
Endrin aldehyde	1/ 1	0.027	0.027	0.027		Yes
PCB-1254	1/ 1	2.1	2.1	2.1		Yes
Organics-Semivolatile (mg/kg)						
Benz(a)anthracene	1/ 1	0.09	0.09	0.09		Yes
Benzo(a)pyrene	1/ 1	0.12	0.12	0.12		Yes
Benzo(b)fluoranthene	1/ 1	0.18	0.18	0.18		Yes

Table 4-18. Summary Statistics and Determination of SRCs in Sediment, Sewer Lines (continued)

Analyte	Results > Detection Limit	Average Result[a]	Minimum Detect	Maximum Detect	Site Background Criteria[b]	SRC?
Benzo(ghi)perylene	1/ 1	0.11	0.11	0.11		Yes
Benzo(k)fluoranthene	1/ 1	0.07	0.07	0.07		Yes
Chrysene	1/ 1	0.11	0.11	0.11		Yes
Fluoranthene	1/ 1	0.24	0.24	0.24		Yes
Indeno(1,2,3-cd)pyrene	1/ 1	0.10	0.10	0.10		Yes
Phenanthrene	1/ 1	0.10	0.10	0.10		Yes
Pyrene	1/ 1	0.16	0.16	0.16		Yes
Organics-Volatile (mg/kg)						
1,2-Dichloroethene	1/ 1	0.007	0.007	0.007		Yes
Methylene chloride	1/ 1	0.004	0.004	0.004		Yes
Toluene	1/ 1	0.017	0.017	0.017		Yes

[a] One-half of the detection limit was used as a surrogate value for non-detects in calculating the average result.
[b] Background criteria were set to zero for inorganic compounds that were not detected in the background samples. Organic compounds were considered non-naturally occurring; therefore, no background criteria are established for these classes of compounds.
PCB = polychlorinated biphenyl.
SRC = site-related contaminant.

Table 4-19. Summary Statistics and Determination of SRCs in Sediment, North Area

Analyte	Results > Detection Limit	Average Result[a]	Minimum Detect	Maximum Detect	Site Background Criteria[b]	SRC?
Inorganics (mg/kg)						
Aluminum	1/ 1	12,300	12,300	12,300	13,900	No
Arsenic	1/ 1	8.5	8.5	8.5	19.5	No
Barium	1/ 1	133	133	133	123	Yes
Beryllium	1/ 1	0.84	0.84	0.84	0.38	Yes
Cadmium	1/ 1	0.44	0.44	0.44	0.0	Yes
Calcium	1/ 1	2,640	2,640	2,640	5,510	No
Chromium	1/ 1	16.4	16.4	16.4	18.1	No
Cobalt	1/ 1	10.1	10.1	10.1	9.1	Yes
Copper	1/ 1	18.3	18.3	18.3	27.6	No
Iron	1/ 1	19,800	19,800	19,800	28,200	No
Lead	1/ 1	27.7	27.7	27.7	27.4	Yes
Magnesium	1/ 1	2,090	2,090	2,090	2,760	No
Manganese	1/ 1	755	755	755	1,950	No
Mercury	1/ 1	0.09	0.09	0.09	0.06	Yes
Nickel	1/ 1	24.8	24.8	24.8	17.7	Yes
Potassium	1/ 1	1,200	1,200	1,200	1,950	No
Selenium	1/ 1	1.6	1.6	1.6	1.7	No
Thallium	1/ 1	0.7	0.7	0.7	0.89	No
Vanadium	1/ 1	21.8	21.8	21.8	26.1	No
Zinc	1/ 1	220	220	220	532	No

[a] One-half of the detection limit was used as a surrogate value for non-detects in calculating the average result.
[b] Background criteria were set to zero for inorganic compounds that were not detected in the background samples. Organic compounds were considered non-naturally occurring; therefore, no background criteria are established for these classes of compounds.
SRC = site-related contaminant.

Table 4-20. Summary Statistics and Determination of SRCs in Sediment, Off-AOC

Analyte	Results > Detection Limit	Average Result[a]	Minimum Detect	Maximum Detect	Site Background Criteria[b]	SRC?
Explosives (mg/kg)						
1,3-Dinitrobenzene	1/ 3	0.1	0.051	0.051		Yes
2,4-Dinitrotoluene	1/ 3	0.099	0.048	0.048		Yes
4-Amino-2,6-Dinitrotoluene	1/ 3	0.117	0.1	0.1		Yes
Nitrobenzene	1/ 3	0.12	0.11	0.11		Yes
Nitrocellulose	1/ 3	2.57	5.7	5.7		Yes
Nitroguanidine	1/ 3	0.109	0.076	0.076		Yes
RDX	1/ 3	0.227	0.18	0.18		Yes
Inorganics (mg/kg)						
Aluminum	15/ 15	5,495	2,320	9,890	13,900	No
Arsenic	15/ 15	15.14	4.8	37.9	19.5	Yes
Barium	15/ 15	45.56	21.1	95.3	123	No
Beryllium	3/ 15	0.21	0.4	0.7	0.38	Yes
Cadmium	15/ 15	0.3	0.11	0.72	0.00	Yes
Calcium	15/ 15	2,584	806	8,210	5,510	No
Chromium	15/ 15	10.33	3.7	33.4	18.1	Yes
Cobalt	15/ 15	6.91	2.2	15.6	9.1	Yes
Copper	15/ 15	28.15	3.5	227	27.6	Yes
Iron	15/ 15	22,940	6,880	87,600	28,200	No
Lead	14/ 14	13.14	3.9	25	27.4	No
Magnesium	15/ 15	1,508	491	2,660	2,760	No
Manganese	15/ 15	313.8	122	543	1,950	No
Mercury	10/ 15	0.05	0.01	0.08	0.06	Yes
Nickel	15/ 15	15.08	4.10	53	17.7	Yes
Potassium	15/ 15	604	177	1,220	1,950	No
Selenium	10/ 15	0.75	0.47	2.2	1.7	Yes
Thallium	12/ 15	0.46	0.22	0.76	0.89	No
Vanadium	15/ 15	11.25	4.9	26.7	26.1	Yes
Zinc	15/ 15	78.88	22	303	532	No
Organics-Volatile (mg/kg)						
2-Butanone	2/ 2	0.009	0.009	0.009		Yes
Acetone	2/ 2	0.034	0.033	0.035		Yes

[a] One-half of the detection limit was used as a surrogate value for non-detects in calculating the average result.
[b] Background criteria were set to zero for inorganic compounds that were not detected in the background samples. Organic compounds were considered non-naturally occurring; therefore, no background criteria are established for these classes of compounds.
AOC = area of concern.
SRC = site-related contaminant.

Table 4-21. Summary Statistics and Determination of SRCs in Surface Water, Outlet C, and Charlie's Pond

Analyte	Results > Detection Limit	Average Result[a]	Minimum Detect	Maximum Detect	Site Background Criteria[b]	SRC?
Explosives (μg/L)						
3-Nitrotoluene	1/ 1	0.17	0.17	0.17		Yes
Inorganics (μg/L)						
Aluminum	1/ 1	1,300	1,300	1,300	3,370	No
Arsenic	1/ 1	31	31	31	3	Yes
Barium	1/ 1	49	49	49	47.5	Yes
Calcium	1/ 1	13,900	13,900	13,900	41,400	No
Chromium	1/ 1	2.4	2.4	2.4	0.0	Yes
Iron	1/ 1	10,400	10,400	10,400	2,560	No
Lead	1/ 1	3.1	3.1	3.1	0.0	Yes
Magnesium	1/ 1	3,600	3,600	3,600	10,800	No
Manganese	1/ 1	510	510	510	391	Yes
Nickel	1/ 1	4.2	4.2	4.2	0.0	Yes
Potassium	1/ 1	3,700	3,700	3,700	3,170	No
Sodium	1/ 1	2,600	2,600	2,600	21,300	No
Vanadium	1/ 1	2.6	2.6	2.6	0.0	Yes
Zinc	1/ 1	29	29	29	42	No

[a] One-half of the detection limit was used as a surrogate value for non-detects in calculating the average result.
[b] Background criteria were set to zero for inorganic compounds that were not detected in the background samples. Organic compounds were considered non-naturally occurring; therefore, no background criteria are established for these classes of compounds.
SRC = site-related contaminant.

Table 4-22. Summary Statistics and Determination of SRCs in Surface Water, Outlets D, E, and F and Criggy's Pond

Analyte	Results > Detection Limit	Average Result[a]	Minimum Detect	Maximum Detect	Site Background Criteria[b]	SRC?
Inorganics (µg/L)						
Arsenic	1/ 1	5.1	5.1	5.1	3.2	Yes
Barium	1/ 1	27.0	27.0	27.0	47.5	No
Calcium	1/ 1	17,400	17,400	17,400	41,400	No
Iron	1/ 1	320	320	320	2,560	No
Magnesium	1/ 1	4,600	4,600	4,600	10,800	No
Manganese	1/ 1	170	170	170	391	No
Potassium	1/ 1	2,500	2,500	2,500	3,170	No
Sodium	1/ 1	2,700	2,700	2,700	21,300	No

[a] One-half of the detection limit was used as a surrogate value for non-detects in calculating the average result.
[b] Background criteria were set to zero for inorganic compounds that were not detected in the background samples. Organic compounds were considered non-naturally occurring; therefore, no background criteria are established for these classes of compounds.
SRC = site-related contaminant.

Table 4-23. Summary Statistics and Determination of SRCs in Surface Water, Sewer Lines

Analyte	Results > Detection Limit	Average Result[a]	Minimum Detect	Maximum Detect	Site Background Criteria[b]	SRC?
Explosives (µg/L)						
2,4,6-Trinitrotoluene	1/ 2	39.55	79	79		Yes
2-Amino-4,6-Dinitrotoluene	1/ 2	13.05	26	26		Yes
4-Amino-2,6-Dinitrotoluene	1/ 2	23.05	46	46		Yes
HMX	1/ 2	0.58	0.9	0.9		Yes
RDX	1/ 2	4	7.7	7.7		Yes
Inorganics (µg/L)						
Aluminum	2/ 2	1,750	1,700	1,800	3,370	No
Antimony	1/ 2	3.2	3.8	3.8	0.0	Yes
Barium	2/ 2	68.5	56	81	47.5	Yes
Calcium	2/ 2	71,600	47,000	96,200	41,400	No
Chromium	2/ 2	2.4	1.9	2.8	0.0	Yes
Cobalt	1/ 2	13.7	2.3	2.3	0.0	Yes
Copper	1/ 2	13.8	15	15	7.9	Yes
Iron	2/ 2	8,950	1,800	16,100	2,560	No
Lead	2/ 2	10.5	9	12	0.0	Yes
Magnesium	2/ 2	4,450	3,500	5,400	10,800	No
Manganese	2/ 2	455	120	790	391	Yes
Nickel	2/ 2	5.6	2.5	8.6	0.0	Yes
Potassium	2/ 2	4,700	4,200	5,200	3,170	No
Selenium	1/ 2	4.5	6.5	6.5	0.0	Yes
Sodium	2/ 2	4,100	3,700	4,500	21,300	No
Vanadium	2/ 2	4.6	4.1	5	0.0	Yes
Zinc	2/ 2	40.5	24	57	42	Yes
Organics-Semivolatile (µg/L)						
Bis(2-ethylhexyl)phthalate	1/ 2	4.1	3.2	3.2		Yes
Chrysene	1/ 2	3.1	1.1	1.1		Yes
Fluoranthene	1/ 2	3.5	1.9	1.9		Yes
Pyrene	1/ 2	3.2	1.4	1.4		Yes

[a] One-half of the detection limit was used as a surrogate value for non-detects in calculating the average result.
[b] Background criteria were set to zero for inorganic compounds that were not detected in the background samples. Organic compounds were considered non-naturally occurring; therefore, no background criteria are established for these classes of compounds.
SRC = site-related contaminant.

Table 4-24. Summary Statistics and Determination of SRCs in Surface Water, Off-AOC

Analyte	Results > Detection Limit	Average Result[a]	Minimum Detect	Maximum Detect	Site Background Criteria[b]	SRC?
Explosives (µg/L)						
1,3-Dinitrobenzene	1/ 12	0.098	0.07	0.07		Yes
2,4,6-Trinitrotoluene	2/ 12	0.103	0.068	0.11		Yes
2,4-Dinitrotoluene	2/ 12	0.088	0.10	0.27		Yes
2,6-Dinitrotoluene	1/ 12	0.072	0.11	0.11		Yes
2-Amino-4,6-Dinitrotoluene	2/ 12	0.125	0.22	0.22		Yes
2-Nitrotoluene	1/ 12	0.114	0.21	0.21		Yes
3-Nitrotoluene	1/ 12	0.108	0.14	0.14		Yes
4-Amino-2,6-Dinitrotoluene	3/ 12	0.121	0.10	0.20		Yes
4-Nitrotoluene	3/ 12	0.12	0.10	0.27		Yes
RDX	1/ 12	0.254	0.16	0.16		Yes
Tetryl	1/ 12	0.107	0.13	0.13		Yes
Inorganics (µg/L)						
Aluminum	3/ 12	214.6	400	950	3,370	No
Arsenic	9/ 12	6.3	4.4	11	3.2	Yes
Barium	12/ 12	41.8	22	58	47.5	Yes
Calcium	12/ 12	51,980	24,200	90,900	41,400	No
Cobalt	3/ 12	19.7	2.6	4.6	0.0	Yes
Iron	12/ 12	1,983	530	4,900	2,560	No
Lead	1/ 12	1.6	2.5	2.5	0.0	Yes
Magnesium	12/ 12	13,370	4,800	21,200	10,800	No
Manganese	12/ 12	895.8	130	3,300	391	Yes
Nickel	2/ 12	12	2.4	9.6	0.0	Yes
Potassium	10/ 12	2,638	1,800	5,000	3,170	No
Sodium	10/ 12	4,388	3,200	6,700	21,300	No
Vanadium	3/ 12	19.1	1.1	2	0.0	Yes
Zinc	4/ 12	21.3	17	71	42	Yes
Organics-Semivolatile (µg/L)						
Bis(2-ethylhexyl)phthalate	1/ 2	8.5	12	12		Yes

[a] One-half of the detection limit was used as a surrogate value for non-detects in calculating the average result.
[b] Background criteria were set to zero for inorganic compounds that were not detected in the background samples. Organic compounds were considered non-naturally occurring; therefore, no background criteria are established for these classes of compounds.
AOC = area of concern.
SRC = site-related contaminant.

Table 4-25. Summary Statistics and Determination of SRCs in Groundwater, Bedrock Zone

Analyte	Results > Detection Limit	Average Result[a]	Minimum Detect	Maximum Detect	Site Background Criteria[b]	SRC?
Explosives (µg/L)						
1,3,5-Trinitrobenzene	8/ 22	1.869	0.11	12		Yes
1,3-Dinitrobenzene	11/ 22	0.388	0.045	1.3		Yes
2,4,6-Trinitrotoluene	10/ 22	2.69	0.085	16		Yes
2,4-Dinitrotoluene	9/ 22	1.122	0.06	7.9		Yes
2,6-Dinitrotoluene	1/ 22	0.7584	3.8	3.8		Yes
2-Amino-4,6-dinitrotoluene	5/ 9	6.944	0.3	29		Yes
3-Nitrotoluene	2/ 22	0.6291	0.14	0.16		Yes
4-Amino-2,6-dinitrotoluene	5/ 9	6.7	0.3	25		Yes
HMX	2/ 22	2.067	0.92	12		Yes
Nitroglycerin	2/ 20	5.298	4.2	27		Yes
RDX	9/ 22	5.416	0.15	88		Yes
Tetryl	3/ 22	2.442	0.12	0.17		Yes
Inorganics, unfiltered (µg/L)						
Aluminum	8/ 10	625	45.8	2,700	9,410	No
Arsenic	2/ 13	5.477	5.2	41	19.1	Yes
Barium	13/ 13	28	4.3	60	241	No
Beryllium	1/ 13	1.604	0.33	0.33	0	Yes
Calcium	13/ 13	62,190	4,050	390,000	48,200	No
Cobalt	6/ 13	52.83	19.3	270	0	Yes
Copper	2/ 13	8.503	0.99	5.8	17	No
Cyanide	2/ 20	4.725	2.9	5.1	0	Yes
Iron	10/ 13	1,131	37.3	3,200	21,500	No
Lead	1/ 13	1,646	4.7	4.7	23	No
Magnesium	13/ 13	13,450	2,590	26,000	13,700	No
Manganese	13/ 13	1,168	33	4,700	1,260	Yes
Mercury	1/ 13	0.09846	0.13	0.13	0	Yes
Nickel	10/ 13	51.77	16	140	85.3	Yes
Potassium	13/ 13	2,870	480	8,800	6,060	No
Sodium	13/ 13	6,907	980	38,100	49,700	No
Thallium	1/ 13	0.8	0.9	0.9	0	Yes
Zinc	9/ 13	78.78	9.1	290	193	Yes
Inorganics, filtered (µg/L)						
Aluminum	7/ 18	376.8	96	2,500	0	Yes
Antimony	1/ 20	2.485	2.2	2.2	0	Yes
Arsenic	4/ 20	5.455	4.4	26	0	Yes
Barium	20/ 20	25.3	3.8	75	256	No
Cadmium	2/ 20	2.455	1.1	3	0	Yes
Calcium	20/ 20	63,380	18,500	399,000	53,100	No
Cobalt	12/ 20	35.47	1.6	260	0	Yes
Copper	1/ 20	12.7	18	18	0	Yes
Iron	10/ 20	1,106	67	9,000	1,430	No
Magnesium	20/ 20	12,280	2,900	25,800	15,000	No
Manganese	20/ 20	1,028	12	4,800	1,340	Yes
Nickel	17/ 20	39.12	4.9	130	83.4	Yes
Potassium	20/ 20	2,887	480	8,800	5,770	No

Table 4-25. Summary Statistics and Determination of SRCs in Groundwater, Bedrock Zone (continued)

Analyte	Results > Detection Limit	Average Result[a]	Minimum Detect	Maximum Detect	Site Background Criteria[b]	SRC?
Selenium	1/ 20	2.58	4.1	4.1	0	Yes
Sodium	20/ 20	6,729	980	37,300	51,400	No
Thallium	1/ 20	0.98	0.6	0.6	0	Yes
Zinc	14/ 20	137.1	13	620	52.3	Yes
Organics–Pesticide/PCB (µg/L)						
4,4'-DDE	1/ 13	1.06	13	13		Yes
Organics–Semivolatile (µg/L)						
Bis(2-ethylhexyl)phthalate	1/ 13	4.508	3.6	3.6		Yes
Organics–Volatile (µg/L)						
Chloroform	1/ 13	2.4	1.2	1.2		Yes
Methylene chloride	6/ 13	2.538	2.1	2.7		Yes
Toluene	1/ 13	2.367	0.77	0.77		Yes

[a] One-half of the detection limit was used as a surrogate value for non-detects in calculating the average result.
[b] Background criteria were set to zero for inorganic compounds that were not detected in the background samples. Organic compounds were considered non-naturally occurring; therefore, no background criteria are established for these classes of compounds.
PCB = polychlorinated biphenyl.
SRC = site-related contaminant.

Table 4-26. Comparison of Surface Soil Metal Site Background Values and SRCs (Average Concentrations per Aggregate)

Metal	Site Background Value	CB-4/4A and CA-6/6A	CB-13 and CB-10	CB-14, CB-17, and CA-15	CB-3 and CB-801	Water Tower	Change Houses	Perimeter Area
Aluminum	17,700.0	9,398.0	11,130.0	14,130.0	9,780.0	X	X	13,060.0
Antimony	0.96	0.70	0.95	X	50.44	0.84	1.25	X
Arsenic	15.40	10.28	10.27	14.72	11.55	X	10.41	11.36
Barium	88.40	110.10	110.10	99.24	107.00	X	57.39	83.08
Beryllium	0.88	0.40	0.74	0.67	0.56	0.64	0.25	X
Cadmium	NA	1.42	3.19	1.17	2.62	0.23	1.63	0.24
Chromium	17.40	20.44	24.66	19.90	30.07	96.50	12.81	15.60
Cobalt	10.40	8.19	8.71	10.35	7.49	12.46	6.23	9.85
Copper	17.70	62.06	109.60	34.48	38.43	26.98	19.78	10.83
Cyanide	NA	0.46	0.38	0.66	0.40	X	X	0.43
Lead	26.10	198.50	170.90	70.31	244.60	608.70	114.70	19.19
Manganese	1,450.00	638.50	1,036.00	863.10	915.10	X	668.60	915.30
Mercury	0.04	0.22	0.07	0.06	0.09	0.04	0.08	0.05
Nickel	21.10	16.15	18.20	22.31	19.00	26.58	14.21	14.62
Selenium	1.40	0.71	0.67	X	0.55	X	X	0.64
Silver	NA	X	X	0.68	0.57	X	X	X
Thallium	NA	0.50	0.45	0.64	0.56	0.58	0.31	0.60
Vanadium	31.10	17.74	15.16	24.27	X	X	12.79	26.62
Zinc	61.80	160.40	336.30	150.50	194.10	242.00	268.60	58.40

NA = No site background value available.
RVAAP site background values are either maximum detected values or UTL95 values calculated from the background data set.
SRC = site-related contaminant.
X = not an SRC for this aggregate.
One-half of the detection limit was used as a surrogate value for non-detects in calculating average concentrations.

Table 4-27. Comparison Between Fixed and Laboratory Data for TNT

Station	Sample ID	Lab Results[a]	Field Duplicate Lab Results[a]	Field Lab Results[a]	Field Lab Replicate Results[a]
LL1-001	LL10800	310		295	113
LL1-001	LL10801	470		22	
LL1-002	LL10803	3.1		17.4	
LL1-002	LL10804	0.92		9.2	
LL1-003	LL10805	2.8		1.2	
LL1-003	LL10809	0.14 J		1.9	
LL1-006	LL10814	0.13 J		1.8	
LL1-007	LL10816	0.71		23	
LL1-008	LL10818	0.25 U	0.25 U	1 U	
LL1-010	LL10832	23		13.5	
LL1-011	LL10837	3.9		12.4	
LL1-011	LL10838	1.2		14	
LL1-013	LL10834	2.7		5.8	
LL1-014	LL10839	40		6.3	
LL1-015	LL10841	390		629	
LL1-015	LL10835	110		125	
LL1-016	LL10857	1.2		7.5	
LL1-023	LL10788	0.98		29	
LL1-023	LL10789	0.07 J		1.2	
LL1-024	LL10981	0.25 U	0.25 U	1 U	
LL1-027	LL10882	0.25 U		2.3	
LL1-029	LL10865	11		1.3	
LL1-034	LL10766	230		121	67
LL1-035	LL10769	0.38		4.2	
LL1-037	LL10771	0.06 J		1.3	
LL1-048	LL1050	0.54	0.28	1.7	
LL1-050	LL1052	0.25 U	0.67	1 U	
LL1-077	LL1015	0.25 U		1 U	
LL1-087	LL10723	0.37		2.9	3.4
LL1-087	LL1216	0.09 J		1.3	1.8
LL1-088	LL10724	0.25 U	0.25 U	1 U	
LL1-099	LL10740	4.5	0.19 J	7.9	
LL1-107	LL10752	0.07 J		1 U	
LL1-108	LL10753	0.25 U	0.25 U	1 U	
LL1-109	LL10755	0.11 J		6.9	
LL1-109	LL1235	0.25 U		1 U	
LL1-110	LL10756	0.25 U		3.3	
LL1-111	LL10757	0.25 U		3	
LL1-118	LL1345	0.25 U		1 U	1 U
LL1-120	LL10773	2		6.9	
LL1-121	LL1104	0.13 J		6.6	7.7
LL1-125	LL10777	0.25 U	0.25 U	1 U	
LL1-126	LL10779	0.51		3.5	
LL1-127	LL10780	4.7		42	
LL1-128	LL10781	0.07 J		6.9	
LL1-129	LL10782	0.35	0.46	14	
LL1-130	LL10783	0.06 J	0.25 U	16	
LL1-131	LL10784	0.25 U		1 U	
LL1-132	LL10785	0.06 J		1.3	

Table 4-27. Comparison Between Fixed and Laboratory Data for TNT (continued)

Station	Sample ID	Lab Results[a]	Field Duplicate Lab Results[a]	Field Lab Results[a]	Field Lab Replicate Results[a]
LL1-133	LL10786	0.25 U		1.9	
LL1-134	LL10787	0.10 J		4.1	
LL1-136	LL10791	180		103	
LL1-137	LL10792	36		81	
LL1-138	LL10793	0.17 J		5.7	4.7
LL1-139	LL10794	0.17 J		1.9	
LL1-140	LL10795	0.25 U		3.1	
LL1-141	LL10796	0.17 J		1 U	
LL1-142	LL10798	0.22 J		1 U	
LL1-143	LL10799	0.25 U	0.25 U	1 U	
LL1-144	LL10819	87		2.3	
LL1-145	LL10820	0.67		1.6	
LL1-146	LL10821	1.1		3	
LL1-148	LL10823	0.25 U		1 U	
LL1-150	LL10825	0.55		1 U	
LL1-151	LL10826	30		25	
LL1-153	LL10828	0.37		1 U	
LL1-154	LL10843	1		2	
LL1-155	LL10844	0.11 J		1 U	
LL1-156	LL10845	4.6		1 U	
LL1-157	LL10846	4,800		423	
LL1-158	LL10847	0.75		1 U	
LL1-159	LL10849	64		207	
LL1-160	LL10850	250		26	
LL1-161	LL10851	200		15	
LL1-162	LL10852	7.9		2.8	
LL1-164	LL10855	0.44		2.8	
LL1-167	LL10861	7.1		4.1	
LL1-169	LL10869	1.1		5.7	
LL1-170	LL10870	5.6		38	
LL1-171	LL10872	2.8	3.9	7.7	
LL1-173	LL10874	0.56		2.3	
LL1-174	LL10876	8.7		28	
LL1-177	LL10880	0.08 J		7	
LL1-178	LL10881	0.18 J		6.4	
LL1-179	LL10884	0.25 U		1.8	
LL1-180	LL10885	0.25 U		2.2	
LL1-182	LL10888	0.25 U		4.8	1.9
LL1-184	LL10890	0.11 J		17	
LL1-185	LL10891	0.33		4.3	
LL1-186	LL10893	0.25 U	0.25 U	1 U	
LL1-190	LL10897	0.25 U	0.25 U	1 U	
LL1-195	LL10903	0.25 U	0.25 U	1 U	
LL1-199	LL10908	0.25 U	0.25 U	1 U	
LL1-206	LL10917	0.25 U		1 U	
LL1-210	LL10921	0.25 U	0.25 U	1 U	
LL1-211	LL10924	0.25 U		1.8	
LL1-213	LL10926	0.25 U	0.25 U	1 U	
LL1-217	LL10930	0.25 U		1 U	

Table 4-27. Comparison Between Fixed and Laboratory Data for TNT (continued)

Station	Sample ID	Lab Results[a]	Field Duplicate Lab Results[a]	Field Lab Results[a]	Field Lab Replicate Results[a]
LL1-228	LL10946	0.25 U		1 U	
LL1-238	LL1342	0.25 U		1	
LL1-240	LL1340	0.25 U		1 U	
LL1-241	LL1339	0.25 U		1 U	
LL1-242	LL1338	0.25 U		1 U	
LL1-243	LL1337	0.25 U		1 U	
LL1-245	LL1326	0.25 U		1 U	
LL1-247	LL10972	0.25 U		1 U	
LL1-253	LL10980	0.25 U		12.6	
LL1-264	LL10992	0.05 J		1.2	
LL1-265	LL10993	300		23	
LL1-265	LL1233	1.1		3.3	
LL1-266	LL10994	0.44		3.1	
LL1-266	LL1247	0.63		2.7	
LL1-268	LL1246	0.68		1.1	
LL1-272	LL1000	0.15 J	0.25 U	1.1	
LL1-276	LL1004	0.25 U	0.25 U	1 U	
LL1-279	LL1007	0.25 U		1 U	
LL1-281	LL1009	0.25 U		1 U	
LL1-286	LL1016	0.25 U		1.5	1.8
LL1-295	LL1025	2.8		18.9	
LL1-301	LL1031	0.25 U		2.7	4.7
LL1-304	LL1034	0.25 U		1.6	
LL1-306	LL1036	1.2		4.2	
LL1-308	LL1038	0.25 U		2.2	
LL1-310	LL1040	0.11 J	0.14 J	1.8	
LL1-322	LL1061	0.25 U		1.4	13.3
LL1-324	LL1195	0.25 U		1 U	
LL1-325	LL1197	22		4.4	
LL1-325	LL1245	4,500		377	
LL1-327	LL1199	0.14 J	0.1 J	1 U	
LL1-331	LL1203	0.25 U		1.4	1.1
LL1-335	LL1207	0.25 U		3.2	1.7
LL1-337	LL1226	0.25 U		1 U	
LL1-339	LL1241	0.52		1.26	
LL1-341	LL1329	83		59	
LL1-342	LL1243	39		2.3	
LL1-343	LL1298	150		7.6	
LL1-344	LL1300	13		28	
LL1-345	LL1242	0.25 U		1 U	1 U
LL1-349	LL1331	0.25 U		1 U	
LL1-354	LL1303	10		3.7	
LL1-355	LL1302	8.2		21	
LL1-356	LL1312	0.22 J		1 U	
LL1-357	LL1313	4,800		944	
LL1-358	LL1314	0.25 U		1 U	
LL1-360	LL1316	6.6		40	
LL1-361	LL1332	0.25 U		1 U	
LL1-365	LL1238	0.25 U		1 U	

Table 4-27. Comparison Between Fixed and Laboratory Data for TNT (continued)

Station	Sample ID	Lab Results[a]	Field Duplicate Lab Results[a]	Field Lab Results[a]	Field Lab Replicate Results[a]
LL1-368	LL1258	0.07 J		1.4	
LL1-371	LL1220	2.2		2.8	
LL1-372	LL1256	22		25	
LL1-375	LL1223	0.25 U		1 U	
LL1-379	LL1221	0.25 U		1 U	
LL1-385	LL1237	0.25 U		1 U	
LL1-386	LL1224	0.25 U		10.5	
LL1-387	LL1251	0.1		1.5	
LL1-388	LL1306	1.2		1 U	
LL1-389	LL1307	0.08 J		1 U	
LL1-393	LL1273	0.25 U		1 U	
LL1-394	LL1276	0.25 U		1.3	
LL1-395	LL1269	0.37		2.4	
LL1-397	LL1274	0.25 U		1 U	
LL1-398	LL1260	0.55		1.8	
LL1-402	LL1318	0.25 U		1 U	
LL1-406	LL1249	0.25 U		1 U	
LL1-407	LL1248	180		1,360	
LL1-409	LL1209	0.17 J		1 U	
LL1-410	LL1328	990		570	
LL1-413	LL1323	0.25 U		1 U	
LL1-415	LL1335	0.25 U		1 U	
LL1-417	LL1347	0.25 U		1 U	

[a] All results in mg/kg.
J = estimated.
U = not detected.
TNT = trinitrotoluene.
Blank fields indicate no duplicate analysis was conducted.

Table 4-28. Comparison Between Field and Laboratory Data for RDX

Station	Sample ID	Lab Results[a]	Field Lab Results[a]
LL1-008	LL10818	0.5 U	1 U
LL1-009	LL10829	2	32
LL1-024	LL10981	0.5 U	1 U
LL1-077	LL1015	0.5 U	1 U
LL1-088	LL10724	0.5 U	1 U
LL1-107	LL10752	0.5 U	1 U
LL1-108	LL10753	0.5 U	1 U
LL1-109	LL1235	0.5 U	1 U
LL1-118	LL1345	0.5 U	1 U
LL1-125	LL10777	0.5 U	1 U
LL1-127	LL10780	0.5 U	1 U
LL1-131	LL10784	0.5 U	1 U
LL1-141	LL10796	0.5 U	3.4
LL1-142	LL10798	0.5 U	3.8
LL1-143	LL10799	0.5 U	1 U
LL1-148	LL10823	0.5 U	1 U
LL1-150	LL10825	0.5 U	1 U
LL1-151	LL10826	2 U	2
LL1-153	LL10828	0.5 U	1 U
LL1-155	LL10844	0.5 U	4.7
LL1-156	LL10845	67	18
LL1-158	LL10847	2300	1.1
LL1-186	LL10893	0.5 U	1 U
LL1-190	LL10897	0.5 U	1 U
LL1-195	LL10903	0.5 U	1 U
LL1-199	LL10908	0.5 U	1 U
LL1-206	LL10917	0.5 U	1 U
LL1-210	LL10921	0.5 U	1 U
LL1-213	LL10926	0.5 U	1 U
LL1-217	LL10930	0.5 U	1 U
LL1-228	LL10946	0.5 U	1 U
LL1-240	LL1340	0.5 U	1 U
LL1-241	LL1339	0.5 U	1 U
LL1-242	LL1338	0.5 U	1 U
LL1-243	LL1337	0.5 U	1 U
LL1-245	LL1326	0.5 U	1 U
LL1-247	LL10972	0.5 U	1 U
LL1-276	LL1004	0.5 U	1 U
LL1-279	LL1007	0.5 U	1 U
LL1-281	LL1009	0.5 U	1 U
LL1-289	LL1019	0.5 U	3.5
LL1-324	LL1195	0.5 U	1 U
LL1-327	LL1199	0.5 U	1 U
LL1-337	LL1226	0.5 U	1 U
LL1-345	LL1242	0.5 U	3.9
LL1-349	LL1331	0.5 U	1 U
LL1-356	LL1312	0.36 J	1 U
LL1-358	LL1314	0.5 U	1 U
LL1-361	LL1332	0.5 U	1 U
LL1-362	LL1333	0.5 U	1 U

Table 4-28. Comparison Between Field and Laboratory Data for RDX (continued)

Station	Sample ID	Lab Results[a]	Field Lab Results[a]
LL1-365	LL1238	0.5 U	1 U
LL1-375	LL1223	0.5 U	1 U
LL1-379	LL1221	0.5 U	1 U
LL1-385	LL1237	0.5 U	1 U
LL1-388	LL1306	0.5 U	1 U
LL1-389	LL1307	0.5 U	1 U
LL1-393	LL1273	0.18 J	1 U
LL1-397	LL1274	0.5 U	1 U
LL1-402	LL1318	0.5 U	1 U
LL1-406	LL1249	0.5 U	1 U
LL1-409	LL1209	0.29 J	1 U
LL1-413	LL1323	0.5 U	1 U
LL1-415	LL1335	0.5 U	1 U
LL1-417	LL1347	0.5 U	1 U

[a] All results in mg/kg.
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine.

Table 4-29. Summary of Laboratory ICP and AA Metal Analyses

Metal	Number Detects/ Number Samples	Average Detect	Std. Dev. for Detects	Minimum Detect	Maximum Detect	Average Detection Limit	Minimum Non-detect	Maximum Non-detect
Aluminum	438/ 438	9,830	6,610	492	97,300	25.7	AD	AD
Antimony	80/ 438	35.7	158	0.55	1,180	1.31	0.67	9
Arsenic	438/ 438	11.2	7.04	1.8	112	0.656	AD	AD
Barium	438/ 438	94.4	144	7.1	1,970	25.7	AD	AD
Beryllium	254/ 438	0.69	0.593	0.22	3.4	0.642	0.061	1.7
Cadmium	324/ 438	1.96	4.48	0.05	48.2	0.656	0.098	1.3
Calcium	430/ 438	10,800	27,800	118	221,000	708	219	632
Chromium	438/ 438	21	34.3	1.5	400	1.31	AD	AD
Cobalt	436/ 438	8.4	5.58	0.55	72.3	6.42	4.2	5.1
Copper	438/ 438	63.1	269	2.4	3,680	3.24	AD	AD
Iron	438/ 438	22,000	15,500	2,450	198,000	13.1	AD	AD
Lead	437/ 438	147	452	3.9	7,130	0.404	6.7	6.7
Magnesium	437/ 438	2,760	3,260	110	23,100	642	1,030	1,030
Manganese	437/ 438	749	642	50.9	4,700	1.97	856	856
Mercury	374/ 432	0.142	0.64	0.0093	9.7	0.132	0.032	0.22
Nickel	437/ 438	17.6	13.2	1.4	160	5.18	1.5	1.5
Potassium	435/ 438	994	706	177	11,600	642	103	697
Selenium	226/ 438	1.02	0.671	0.34	5.3	0.656	0.35	3.8
Silver	19/ 438	0.445	0.641	0.17	3	1.29	1	9
Sodium	87/ 438	282	312	53.9	1,630	648	54.7	3,070
Thallium	397/ 438	0.536	0.282	0.13	4.6	0.653	0.19	2.9
Vanadium	438/ 438	17.9	11.8	1.2	179	6.56	AD	AD
Zinc	437/ 438	208	386	15	4,160	2.7	15.2	15.2

AA = atomic absorption.
AD = All detects; therefore, no minimum or maximum nondetect.
ICP = inductively coupled plasma.

Table 4-30. Summary of In-Situ XRF Metal Measurements

Metal	Number Detects/ Number Samples	Average Detect	Std. Dev. for Detects	Minimum Detect	Maximum Detect	Average Detection Limit	Minimum Non-detect	Maximum Non-detect
Antimony	0/ 507	ND	ND	ND	ND	45.6	30.15	101.55
Arsenic	121/ 502	35.8	36.9	13.7	324	24.6	8.25	83.25
Barium	505/ 507	238	96.6	66.2	1,469.6	55.1	79.65	82.95
Cadmium	2/ 507	167	144	65	268.4	46.1	26.7	136.2
Cesium	1/ 507	78.4	NA	78.4	78.4	51.5	36	90.15
Chromium	18/ 502	818	456	440.8	2,219.2	332	125.85	1,500
Cobalt	84/ 502	326	415	103.5	2,668.8	190	52.35	660
Copper	42/ 502	319	397	53.5	1,760	114	36.3	855
Iron	502/ 502	17,000	26,100	1,920	369,868.81	488	AD	AD
Lanthanum	29/ 507	64.6	31.2	33.5	139.5	35.1	19.5	72.9
Lead	293/ 502	305	419	17	2,739.2	24.5	9.3	76.95
Manganese	316/ 502	865	625	307.2	4,908.8	356	210	3,000
Mercury	0/ 502	ND	ND	ND	ND	13.1	5.4	42
Molybdenum	497/ 502	19	8.14	5.1	80.6	5.55	4.35	6.9
Nickel	190/ 502	6,170	11,100	225.4	82,585.6	329	117.15	1,260
Palladium	0/ 507	ND	ND	ND	ND	40.5	26.4	165
Rubidium	474/ 502	48.5	17.3	6.4	110.9	8.99	7.2	37.5
Selenium	1/ 502	16.5	NA	16.5	16.5	11.5	4.8	40.05
Silver	218/ 507	1,500	1,670	358.6	12,096	342	225	780
Strontium	489/ 502	46.9	45.9	8.4	334.6	7.6	4.2	18.15
Tellurium	0/ 507	ND	ND	ND	ND	66.6	46.8	117
Tin	0/ 507	ND	ND	ND	ND	134	86.55	360
Zinc	401/ 502	449	1,110	27.3	12,198.4	49.7	25.35	315
Zirconium	499/ 502	132	45.7	9	297.8	8.91	7.35	23.85

AD = all detects; therefore, no minimum or maximum non-detect.
ND = no detects; therefore, no average, standard deviation, minimum, or maximum detect.
NA = not applicable, only one detect, so a standard deviation cannot be calculated.
XRF = x-ray fluorescence.

Table 4-31. Results for Surface Soil Samples – Inorganic Constituents and Total Organic Carbon

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-4/4A and CA-6/6A LL1-001 LL10800 LL1ss-001-0800-SO 09/12/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-002 LL10803 LL1ss-002-0803-SO 09/12/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-003 LL10805 LL1ss-003-0805-SO 09/13/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-004 LL10808 LL1ss-004-0808-SO 09/13/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-005 LL10810 LL1ss-005-0810-SO 09/13/2000 0 - 1 Grab
Cyanide	mg/kg	3.8 = *	0.55 U	0.56 U	0.55 U	0.6 U
Chromium, hexavalent	mg/kg					
Aluminum	mg/kg	18,400 = *	5,410 =	3,740 =	6,690 =	4,920 =
Antimony	mg/kg	1.1 J *	1.1 UJ	1.1 UJ	1.1 UJ	2.1 J *
Arsenic	mg/kg	5.5 =	10.7 =	7.1 =	5.6 =	12.6 =
Barium	mg/kg	234 = *	50.9 =	75.3 =	56.1 =	1,100 = *
Beryllium	mg/kg	2.2 = *	0.21 U	0.19 U	0.24 U	0.13 U
Cadmium	mg/kg	6 = *	0.74 = *	3.8 = *	0.41 J *	11.6 = *
Calcium	mg/kg	89,100 = *	2,900 =	3,720 =	1,070 =	5,530 =
Chromium	mg/kg	17.4 =	9.5 =	17.2 =	8.9 =	33.8 = *
Cobalt	mg/kg	2.7 J	4.3 J	4.3 J	8.8 =	6 =
Copper	mg/kg	56.4 J *	19.3 = *	25.7 = *	10.3 =	114 = *
Iron	mg/kg	9,730 J	13,800 =	15,000 =	10,200 =	27,100 = *
Lead	mg/kg	179 = *	132 = *	359 = *	38.5 = *	1,110 = *
Magnesium	mg/kg	14,900 = *	1,320 =	1,030 =	896 =	3,080 = *
Manganese	mg/kg	2,330 = *	328 =	326 =	1,000 =	558 =
Mercury	mg/kg	0.46 = *	0.072 J *	0.11 = *	0.035 J	1.5 = *
Nickel	mg/kg	7.3 =	10.3 =	14.2 =	8.5 =	29.7 = *
Potassium	mg/kg	1,240 = *	825 =	556 J	649 =	450 J
Selenium	mg/kg	0.86 =	0.55 U	0.59 U	0.55 U	0.74 U
Silver	mg/kg	1.2 U	1.1 U	1.1 U	1.1 U	1.2 U
Sodium	mg/kg	439 J *	63 U	90.9 U	549 U	126 U
Thallium	mg/kg	0.42 J *	0.34 J *	0.29 J *	0.33 J *	0.45 J *
Vanadium	mg/kg	7.1 =	11 =	8.5 =	13.2 =	14.1 =
Zinc	mg/kg	253 J *	223 = *	266 = *	53.1 =	1,170 J *
Total Organic Carbon	mg/kg					

Table 4-31. Results for Surface Soil Samples – Inorganic Constituents and Total Organic Carbon (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-4/4A and CA-6/6A LL1-006 LL10813 LL1ss-006-0813-SO 09/13/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-007 LL10815 LL1ss-007-0815-SO 09/12/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-008 LL10817 LL1ss-008-0817-SO 09/13/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-009 LL10829 LL1ss-009-0829-SO 09/14/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-010 LL10832 LL1ss-010-0832-SO 09/14/2000 0 - 1 Grab
Cyanide	mg/kg	0.56 U	0.54 U	0.59 U	0.61 U	0.53 U
Chromium, hexavalent	mg/kg					
Aluminum	mg/kg	6,200 =	5,000 =	16,700 =	2,320 =	5,240 =
Antimony	mg/kg	1.1 UJ	1.1 UJ	1.2 UJ	6.1 U	1.1 UJ
Arsenic	mg/kg	10 =	8.4 =	13.7 =	14.3 =	11.3 =
Barium	mg/kg	53.4 =	40.7 =	136 = *	171 = *	45.9 =
Beryllium	mg/kg	0.23 U	0.22 U	1.1 = *	0.61 U	0.18 U
Cadmium	mg/kg	0.82 = *	0.89 = *	0.24 J *	8.5 = *	1.4 = *
Calcium	mg/kg	2,510 =	4,630 =	2,980 J	1,880 =	1,510 J
Chromium	mg/kg	11.7 =	8.9 =	17 =	400 = *	16.5 =
Cobalt	mg/kg	5.3 J	4.4 J	21.8 = *	12.3 = *	4.8 J
Copper	mg/kg	28.7 J *	30.9 J *	13.2 =	146 = *	29.9 = *
Iron	mg/kg	17,600 J	13,000 J	26,900 = *	82,700 = *	17,300 =
Lead	mg/kg	63.1 = *	68.9 = *	25.7 =	7,130 = *	220 = *
Magnesium	mg/kg	1,120 =	1,210 =	2,150 =	1,950 =	1,110 =
Manganese	mg/kg	445 =	339 J	3,500 = *	450 =	313 =
Mercury	mg/kg	0.25 = *	0.083 J *	0.11 J *	0.21 = *	0.058 J *
Nickel	mg/kg	11.1 =	10.3 =	16.1 =	68.5 = *	11.7 =
Potassium	mg/kg	749 =	611 =	990 = *	199 J	617 =
Selenium	mg/kg	0.65 =	0.64 =	0.38 J	3.1 U	0.62 =
Silver	mg/kg	1.1 U	1.1 U	1.2 U	1.2 U	1.1 U
Sodium	mg/kg	565 U	59.9 J	587 U	3,070 U	531 U
Thallium	mg/kg	0.33 J *	0.3 J *	0.66 = *	0.42 J *	0.42 U
Vanadium	mg/kg	13.7 =	9.8 =	30.4 =	6.5 J	10.4 =
Zinc	mg/kg	76.9 J *	142 J *	77.3 = *	1,690 = *	218 = *
Total Organic Carbon	mg/kg					

Table 4-31. Results for Surface Soil Samples – Inorganic Constituents and Total Organic Carbon (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-4/4A and CA-6/6A LL1-011 LL10837 LL1ss-011-0837-SO 09/12/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-013 LL10834 LL1ss-013-0834-SO 09/15/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-014 LL10839 LL1ss-014-0839-SO 09/12/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-015 LL10841 LL1ss-015-0841-SO 09/12/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-016 LL10857 LL1ss-016-0857-SO 09/13/2000 0 - 1 Grab
Cyanide	mg/kg	0.62 U	1.8 = *	0.86 = *	0.54 U	0.61 U
Chromium, hexavalent	mg/kg					
Aluminum	mg/kg	4,540 =	11,700 =	8,680 =	3,890 =	13,600 =
Antimony	mg/kg	1.2 UJ	1.1 UJ	1.1 UJ	1.1 UJ	1.2 UJ
Arsenic	mg/kg	13.4 =	4.4 =	9.2 =	11.7 =	11.3 =
Barium	mg/kg	58.7 =	126 = *	56.7 =	45.3 =	99.3 = *
Beryllium	mg/kg	0.067 U	1.3 = *	0.29 J	0.12 U	0.52 J
Cadmium	mg/kg	5.8 = *	2.3 = *	1 = *	1.3 = *	0.33 J *
Calcium	mg/kg	4,650 =	56,000 = *	1,870 =	5,740 =	483 J
Chromium	mg/kg	47.2 = *	11.8 =	15.3 =	9.3 =	16 =
Cobalt	mg/kg	6.4 =	2.9 J	6.5 =	4.3 J	11.5 = *
Copper	mg/kg	71.3 J *	26.4 J *	17.8 J *	18.6 J *	11.7 J
Iron	mg/kg	19,400 J	12,000 =	16,600 J	14,500 J	21,600 J
Lead	mg/kg	1,040 = *	99.9 = *	2,070 = *	163 = *	18.7 =
Magnesium	mg/kg	2,420 =	7,080 = *	1,400 =	934 =	1,800 =
Manganese	mg/kg	334 J	1,220 =	425 =	270 J	858 J
Mercury	mg/kg	0.087 J *	0.057 J *	0.028 J	0.034 J	0.046 J *
Nickel	mg/kg	22 = *	7.5 =	12.8 =	10.6 =	13.9 =
Potassium	mg/kg	624 J	863 =	984 = *	593 =	815 =
Selenium	mg/kg	0.76 =	0.68 =	0.61 =	0.66 =	1.2 =
Silver	mg/kg	1.2 U	1.1 U	1.1 U	1.1 U	1.2 U
Sodium	mg/kg	120 J	260 J *	567 U	543 U	605 U
Thallium	mg/kg	0.41 U	0.37 J *	0.36 J *	0.31 J *	0.58 J *
Vanadium	mg/kg	10.9 =	6.6 =	18 =	8.5 =	27.3 =
Zinc	mg/kg	1,110 J *	114 = *	103 J *	147 J *	59.2 J
Total Organic Carbon	mg/kg					

Table 4-31. Results for Surface Soil Samples – Inorganic Constituents and Total Organic Carbon (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-4/4A and CA-6/6A LL1-023 LL10788 LL1ss-023-0788-SO 09/15/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-024 LL10981 LL1ss-024-0981-SO 09/26/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-024 LL1112 LL1ss-024-1112-SO 09/26/2000 0 - 1 Field Duplicate	CB-4/4A and CA-6/6A LL1-029 LL10865 LL1ss-029-0865-SO 09/18/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-039 LL10975 LL1ss-039-0975-SO 09/29/2000 0 - 1 Grab
Cyanide	mg/kg	0.6 U	1.3 U	1.5 U	1.6 U	0.6 U
Chromium, hexavalent	mg/kg		5.2 UJ	15.5 J	6.6 UJ	
Aluminum	mg/kg	11,700 =	11,100 J	17,300 J	3,850 =	8,290 J
Antimony	mg/kg	1.2 UJ	1.8 J *	3.1 UJ	5.8 UJ	1.2 UJ
Arsenic	mg/kg	13 =	18.6 = *	15.9 = *	10.8 =	8 J
Barium	mg/kg	66.8 =	137 J *	163 J *	128 = *	77 =
Beryllium	mg/kg	0.38 J	1.6 J *	1.9 J *	1.6 U	0.36 UJ
Cadmium	mg/kg	0.59 J *	1.3 U	0.33 J *	10.7 = *	0.6 UJ
Calcium	mg/kg	1,590 =	7,850 =	8,220 =	15,200 =	4,170 J
Chromium	mg/kg	19.9 = *	21 = *	19.5 = *	120 = *	12.1 J
Cobalt	mg/kg	8.7 =	15.1 = *	16.9 = *	8 J	5.2 J
Copper	mg/kg	15.1 J	2,180 J *	2,180 J *	231 = *	10.5 J
Iron	mg/kg	25,000 = *	42,200 J *	27,100 J *	62,900 = *	14,600 =
Lead	mg/kg	44.7 = *	50.5 J *	50.6 J *	1,240 = *	24.9 J
Magnesium	mg/kg	1,970 =	1,350 J	1,940 J	1,700 =	1,370 =
Manganese	mg/kg	580 =	1,650 J *	1,530 J *	646 =	533 =
Mercury	mg/kg	0.034 J	0.12 J *	0.15 J *	1.2 = *	0.11 J *
Nickel	mg/kg	13.9 =	23.6 J *	31.1 J *	31.5 J *	11.1 J
Potassium	mg/kg	783 =	832 J	1,390 J *	539 J	912 =
Selenium	mg/kg	1.1 =	5.3 J *	3.7 UJ	3.1 = *	0.92 J
Silver	mg/kg	1.2 U	2.6 U	3.1 U	0.88 J *	1.2 U
Sodium	mg/kg	63.3 J	1,300 U	356 J *	291 U	602 U
Thallium	mg/kg	0.62 = *	0.34 J *	0.68 J *	2 J *	0.43 J *
Vanadium	mg/kg	26 =	25.4 J	31.5 J *	10 J	16.9 =
Zinc	mg/kg	58.6 =	889 J *	1,060 J *	1,320 = *	63.7 J *
Total Organic Carbon	mg/kg					

Table 4-31. Results for Surface Soil Samples – Inorganic Constituents and Total Organic Carbon (continued)

Location		CB-4/4A and CA-6/6A	CB-4/4A and CA-6/6A	CB-4/4A and CA-6/6A	CB-4/4A and CA-6/6A	CB-4/4A and CA-6/6A
Station		LL1-135	LL1-136	LL1-137	LL1-138	LL1-139
Sample ID		LL10790	LL10791	LL10792	LL10793	LL10794
Customer ID		LL1ss-135-0790-SO	LL1ss-136-0791-SO	LL1ss-137-0792-SO	LL1ss-138-0793-SO	LL1ss-139-0794-SO
Date		09/26/2000	09/15/2000	09/15/2000	09/16/2000	09/16/2000
Depth (ft)		0 - 1	0 - 1	0 - 1	0 - 1	0 - 1
Field Type		Grab	Grab	Grab	Grab	Grab
Analyte	Units					
Cyanide	mg/kg	0.67 U		0.61 U		
Chromium, hexavalent	mg/kg	1.3 UJ				
Aluminum	mg/kg	12,100 J	9,870 =	1,1900 =	6,870 J	8,490 J
Antimony	mg/kg	0.68 J	1.2 UJ	1.2 UJ	1.1 UJ	1.2 UJ
Arsenic	mg/kg	9.6 =	13.1 =	11.9 =	11.7 J	8.5 J
Barium	mg/kg	69.6 J	81.2 =	84.2 =	49.9 =	62.9 =
Beryllium	mg/kg	0.39 UJ	0.42 J	0.46 J	0.27 U	0.36 J
Cadmium	mg/kg	0.67 U	0.96 = *	0.72 = *	1.3 = *	0.33 J *
Calcium	mg/kg	2,020 =	1,790 =	2,250 =	1,390 J	8,450 J
Chromium	mg/kg	15.4 =	13.5 =	22.5 = *	12.6 =	12.1 =
Cobalt	mg/kg	8.1 =	8.6 =	9.2 =	7.1 =	6.6 =
Copper	mg/kg	21.1 J *	22 J *	18.1 J *	29 = *	15.7 =
Iron	mg/kg	23,900 J *	25,200 = *	24,100 = *	21,400 J	17,100 J
Lead	mg/kg	21 J	26.3 = *	70.5 = *	45.5 J *	56.6 J *
Magnesium	mg/kg	2,310 J	1,700 =	2,270 =	1,940 J	1,790 J
Manganese	mg/kg	322 J	775 =	567 =	381 J	500 J
Mercury	mg/kg	0.036 J	0.11 J *	0.046 J *	0.03 J	0.058 J *
Nickel	mg/kg	19 J	14.4 =	19.3 =	16 J	12.9 J
Potassium	mg/kg	1,220 = *	759 =	1,130 = *	838 =	1,170 = *
Selenium	mg/kg	2.1 UJ	1.4 =	1.2 =	0.57 U	0.67 =
Silver	mg/kg	1.3 U	1.2 U	1.2 U	1.1 U	1.2 U
Sodium	mg/kg	665 U	605 U	613 U	568 U	66.6 J
Thallium	mg/kg	0.4 J *	0.45 J *	0.62 = *	0.43 J *	0.51 J *
Vanadium	mg/kg	22.1 J	22.7 =	23.4 =	14.7 =	17 =
Zinc	mg/kg	89.4 J *	81.4 = *	108 = *	124 J *	92.5 J *
Total Organic Carbon	mg/kg					

Table 4-31. Results for Surface Soil Samples – Inorganic Constituents and Total Organic Carbon (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-4/4A and CA-6/6A LL1-140 LL10795 LL1ss-140-0795-SO 09/16/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-141 LL10796 LL1ss-141-0796-SO 09/15/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-142 LL10798 LL1ss-142-0798-SO 09/15/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-143 LL10799 LL1ss-143-0799-SO 09/16/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-143 LL1111 LL1ss-143-1111-SO 09/16/2000 0 - 1 Field Duplicate
Cyanide	mg/kg	0.61 U	0.61 U		0.58 U	0.58 U
Chromium, hexavalent	mg/kg					
Aluminum	mg/kg	10,200 J	10,500 J	12,500 J	9,800 J	8,090 =
Antimony	mg/kg	1.2 UJ	1.2 U	1.2 U	1.2 UJ	1.2 UJ
Arsenic	mg/kg	9.9 J	10.2 =	11.5 =	12 J	12.5 =
Barium	mg/kg	67.2 =	148 = *	74.3 =	54.1 =	47.5 =
Beryllium	mg/kg	0.48 J	0.32 J	0.41 J	0.41 J	0.33 U
Cadmium	mg/kg	0.23 J *	1 = *	0.2 J *	0.3 J *	0.21 J *
Calcium	mg/kg	8,000 J	1,840 =	1,440 =	1,830 J	1,710 J
Chromium	mg/kg	13.9 =	16.5 =	15.1 =	13.4 =	11.8 =
Cobalt	mg/kg	7.8 =	8.8 =	9.7 =	8.7 =	6.6 =
Copper	mg/kg	14.7 =	19.9 = *	11.9 =	20.3 = *	27.6 = *
Iron	mg/kg	19,800 J	19,700 =	21,300 =	21,300 J	19,600 =
Lead	mg/kg	31.9 J *	117 = *	13.6 =	28.3 J *	68.5 = *
Magnesium	mg/kg	2,460 J	1,780 =	1,940 =	2,220 J	1,930 =
Manganese	mg/kg	647 J	644 =	592 =	434 J	357 =
Mercury	mg/kg	0.044 J *	0.032 J	0.041 J *	0.015 J	0.026 J
Nickel	mg/kg	15.8 J	16 =	16.8 =	18.5 J	16.9 =
Potassium	mg/kg	1,340 = *	1,090 = *	1,040 = *	1,200 = *	940 = *
Selenium	mg/kg	0.61 U	1.1 =	0.95 =	0.58 U	0.96 =
Silver	mg/kg	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Sodium	mg/kg	606 U	65 J	594 U	581 U	581 U
Thallium	mg/kg	0.55 J *	0.57 J *	0.57 J *	0.53 J *	0.56 J *
Vanadium	mg/kg	18.2 =	20.8 =	23.3 =	17.2 =	15.9 =
Zinc	mg/kg	77.2 J *	228 = *	52.1 =	83.3 J *	119 = *
Total Organic Carbon	mg/kg					

Table 4-31. Results for Surface Soil Samples – Inorganic Constituents and Total Organic Carbon (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-4/4A and CA-6/6A LL1-144 LL10819 LL1ss-144-0819-SO 09/12/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-145 LL10820 LL1ss-145-0820-SO 09/12/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-146 LL10821 LL1ss-146-0821-SO 09/12/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-147 LL10822 LL1ss-147-0822-SO 09/12/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-148 LL10823 LL1ss-148-0823-SO 09/13/2000 0 - 1 Grab
Cyanide	mg/kg	1 = *	0.57 U			1 = *
Chromium, hexavalent	mg/kg					
Aluminum	mg/kg	19,600 = *	11,000 =	10,200 =	6,350 =	5,850 =
Antimony	mg/kg	1.1 UJ	1.1 UJ	1.2 UJ	1.1 UJ	1.3 J *
Arsenic	mg/kg	5.7 =	10.2 =	10.1 =	8.2 =	10.5 =
Barium	mg/kg	211 = *	60.5 =	179 = *	116 = *	1,720 = *
Beryllium	mg/kg	2.3 = *	0.35 J	0.49 J	0.34 J	0.29 J
Cadmium	mg/kg	1.6 = *	0.83 = *	3.4 = *	2.6 = *	7.9 = *
Calcium	mg/kg	97,700 = *	1,010 =	27,600 = *	13,100 =	2,270 =
Chromium	mg/kg	11.5 =	16.5 =	40.7 = *	20.5 = *	67.3 = *
Cobalt	mg/kg	3.4 J	8 =	6.3 =	5.1 J	3.8 J
Copper	mg/kg	11.3 J	53.9 J *	44.2 = *	40 J *	3,680 J *
Iron	mg/kg	9,190 J	18,800 J	18,500 =	17,900 J	19,800 J
Lead	mg/kg	143 = *	83.1 = *	592 = *	331 = *	350 = *
Magnesium	mg/kg	13,100 = *	1,670 =	3,580 = *	2,030 =	1,500 =
Manganese	mg/kg	2,250 J *	392 J	861 =	631 =	415 =
Mercury	mg/kg	0.091 J *	0.066 J *	0.26 = *	0.22 = *	7 = *
Nickel	mg/kg	6.5 =	14.3 =	16.8 =	13.9 =	15.6 =
Potassium	mg/kg	1,430 = *	1,120 = *	1,250 = *	781 =	706 =
Selenium	mg/kg	1.3 =	0.79 =	0.96 U	0.8 =	1.1 =
Silver	mg/kg	1.1 U	1.1 U	1.2 U	0.17 J *	0.26 J *
Sodium	mg/kg	371 J *	567 U	125 U	551 U	107 J
Thallium	mg/kg	0.39 J *	0.42 J *	0.44 J *	0.33 J *	0.37 J *
Vanadium	mg/kg	9.2 =	21.5 =	16.6 =	12 =	11.8 =
Zinc	mg/kg	153 J *	76.6 J *	355 = *	248 J *	566 J *
Total Organic Carbon	mg/kg					

Table 4-31. Results for Surface Soil Samples – Inorganic Constituents and Total Organic Carbon (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-4/4A and CA-6/6A LL1-149 LL10824 LL1ss-149-0824-SO 09/13/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-150 LL10825 LL1ss-150-0825-SO 09/14/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-151 LL10826 LL1ss-151-0826-SO 09/14/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-152 LL10827 LL1ss-152-0827-SO 09/14/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-153 LL10828 LL1ss-153-0828-SO 09/14/2000 0 - 1 Grab
Cyanide	mg/kg		0.54 U		0.52 U	
Chromium, hexavalent	mg/kg					
Aluminum	mg/kg	8,370 =	3,810 J	2,700 J	2,600 J	1,530 J
Antimony	mg/kg	3 J *	1.1 U	0.72 J	1.2 = *	1.2 = *
Arsenic	mg/kg	9.9 =	8.8 =	10.5 =	7.2 =	4.6 =
Barium	mg/kg	294 = *	50.7 =	44.8 =	119 = *	1,970 = *
Beryllium	mg/kg	0.37 U	0.12 U	0.1 U	0.062 U	0.11 U
Cadmium	mg/kg	7.5 = *	0.94 = *	0.73 = *	4 = *	27.3 = *
Calcium	mg/kg	46,200 = *	1,370 =	585 =	29,900 = *	35,300 = *
Chromium	mg/kg	44.3 = *	10.1 =	13.9 =	18.2 = *	6.1 =
Cobalt	mg/kg	5.2 J	3.8 J	3.5 J	3.2 J	5.1 U
Copper	mg/kg	93.8 = *	14.8 =	106 = *	80.8 = *	120 = *
Iron	mg/kg	23,100 =	12,700 =	14,100 =	15,400 =	6,410 =
Lead	mg/kg	1,250 = *	122 = *	79.9 = *	162 = *	77.1 = *
Magnesium	mg/kg	4,270 = *	727 =	678 =	2,780 =	1,170 =
Manganese	mg/kg	834 =	270 =	210 =	370 =	174 =
Mercury	mg/kg	2.5 = *	0.18 = *	0.089 J *	0.49 = *	9.7 = *
Nickel	mg/kg	20.9 =	8 =	10.1 =	12.7 =	6.3 =
Potassium	mg/kg	856 =	493 J	460 J	403 J	294 J
Selenium	mg/kg	0.61 U	0.67 =	0.77 =	0.52 U	0.51 U
Silver	mg/kg	0.23 J *	1.1 U	1.1 U	1 U	1 U
Sodium	mg/kg	120 U	538 U	537 U	517 U	510 U
Thallium	mg/kg	0.46 J *	0.26 J *	0.33 J *	0.26 J *	0.22 J *
Vanadium	mg/kg	12.5 =	9.3 =	6.5 =	7 =	3.2 J
Zinc	mg/kg	764 J *	122 = *	117 = *	99.4 = *	124 = *
Total Organic Carbon	mg/kg					

Table 4-31. Results for Surface Soil Samples – Inorganic Constituents and Total Organic Carbon (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-4/4A and CA-6/6A LL1-154 LL10843 LL1ss-154-0843-SO 09/13/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-155 LL10844 LL1ss-155-0844-SO 09/13/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-156 LL10845 LL1ss-156-0845-SO 09/13/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-157 LL10846 LL1ss-157-0846-SO 09/13/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-158 LL10847 LL1ss-158-0847-SO 09/13/2000 0 - 1 Grab
Cyanide	mg/kg	1.5 = *			0.63 U	0.57 U
Chromium, hexavalent	mg/kg					
Aluminum	mg/kg	17,700 =	19,600 = *	12,400 =	5,000 =	3,670 =
Antimony	mg/kg	1.2 UJ	0.69 J	1.4 J *	1.3 UJ	1.1 UJ
Arsenic	mg/kg	6 =	7.3 =	10.6 =	8.6 =	4.9 =
Barium	mg/kg	255 = *	226 = *	130 = *	75.5 =	255 = *
Beryllium	mg/kg	1.5 = *	2.6 = *	0.83 =	0.27 J	0.095 U
Cadmium	mg/kg	6.8 = *	0.89 = *	1.5 = *	4.7 = *	4.1 = *
Calcium	mg/kg	110,000 = *	121,000 = *	24,200 J *	6,850 J	17,300 = *
Chromium	mg/kg	37.7 = *	22.4 = *	17.7 = *	31.3 = *	102 = *
Cobalt	mg/kg	5.1 J	4.4 J	7.8 =	6.8 =	5.4 J
Copper	mg/kg	26.5 = *	18.2 = *	24.9 = *	109 = *	25.3 = *
Iron	mg/kg	13,900 =	12,900 =	19,700 =	27,700 = *	14,600 =
Lead	mg/kg	1,150 = *	213 = *	211 = *	726 = *	2,450 = *
Magnesium	mg/kg	10,500 = *	15,300 = *	4,640 = *	3,760 = *	819 =
Manganese	mg/kg	1,690 = *	1,960 = *	1,210 =	555 =	140 =
Mercury	mg/kg	0.78 = *	0.11 J *	0.064 J *	0.07 J *	0.094 J *
Nickel	mg/kg	21.5 = *	10.2 =	16.5 =	33.9 = *	10.7 =
Potassium	mg/kg	1,990 = *	2,170 = *	1,170 = *	434 J	658 =
Selenium	mg/kg	1 U	0.93 U	0.58 J	0.74 =	0.41 U
Silver	mg/kg	1.2 U	0.26 J *	1.2 U	1.3 U	1.1 U
Sodium	mg/kg	511 J *	410 J *	116 U	94.2 U	80.6 U
Thallium	mg/kg	0.44 J *	0.53 J *	0.41 U	0.64 = *	0.29 J *
Vanadium	mg/kg	12 =	16.1 =	15.9 =	10.3 =	8.4 =
Zinc	mg/kg	598 J *	170 J *	186 = *	609 = *	296 J *
Total Organic Carbon	mg/kg					

Table 4-31. Results for Surface Soil Samples – Inorganic Constituents and Total Organic Carbon (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-4/4A and CA-6/6A LL1-159 LL10849 LL1ss-159-0849-SO 09/14/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-160 LL10850 LL1ss-160-0850-SO 09/14/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-161 LL10851 LL1ss-161-0851-SO 09/14/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-162 LL10852 LL1ss-162-0852-SO 09/14/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-163 LL10853 LL1ss-163-0853-SO 09/12/2000 0 - 1 Grab
Cyanide	mg/kg	0.51 U		0.53 U		0.52 U
Chromium, hexavalent	mg/kg					
Aluminum	mg/kg	756 =	6,980 J	5,140 =	4,170 =	3,380 =
Antimony	mg/kg	1 UJ	1.1 U	1.1 UJ	1.2 UJ	1 UJ
Arsenic	mg/kg	1.8 =	11.2 =	15.4 =	9 =	12 =
Barium	mg/kg	14.5 J	93.4 = *	379 = *	126 = *	39 =
Beryllium	mg/kg	0.061 U	0.26 U	0.26 U	0.37 U	0.11 U
Cadmium	mg/kg	0.27 J *	3.3 = *	10.9 = *	7 = *	0.84 = *
Calcium	mg/kg	219 U	2,000 =	9,830 J	7,660 J	816 =
Chromium	mg/kg	2.1 =	22.6 = *	66.1 = *	74.9 = *	8.6 =
Cobalt	mg/kg	0.88 J	7.5 =	6.6 =	7.6 =	4.5 J
Copper	mg/kg	2.4 J	58.5 = *	75.2 = *	85.8 = *	24.4 J *
Iron	mg/kg	2,490 =	18,600 =	45,900 = *	29,600 = *	13,600 J
Lead	mg/kg	14.8 =	454 = *	411 = *	1,430 = *	155 = *
Magnesium	mg/kg	112 J	1,280 =	1,540 =	2,290 =	1,010 =
Manganese	mg/kg	79.5 =	601 =	681 =	597 =	221 J
Mercury	mg/kg	0.01 J	0.084 J *	0.36 = *	0.12 = *	0.029 J
Nickel	mg/kg	1.5 U	15 =	31.5 = *	31.5 = *	10.9 =
Potassium	mg/kg	103 U	809 =	496 J	447 J	588 =
Selenium	mg/kg	0.35 J	0.78 =	1 =	0.66 =	0.4 J
Silver	mg/kg	1 U	1.1 U	1.1 U	1.2 U	1 U
Sodium	mg/kg	72.3 U	575 U	115 U	138 U	523 U
Thallium	mg/kg	0.19 U	0.46 J *	0.59 J *	0.54 J *	0.28 J *
Vanadium	mg/kg	1.8 J	14.4 =	13 =	9.1 =	8 =
Zinc	mg/kg	15 =	403 = *	293 = *	640 = *	153 J *
Total Organic Carbon	mg/kg					

Table 4-31. Results for Surface Soil Samples – Inorganic Constituents and Total Organic Carbon (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-4/4A and CA-6/6A LL1-164 LL10855 LL1ss-164-0855-SO 09/12/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-165 LL10856 LL1ss-165-0856-SO 09/12/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-166 LL10859 LL1ss-166-0859-SO 09/12/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-167 LL10861 LL1ss-167-0861-SO 09/12/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-168 LL10862 LL1ss-168-0862-SO 09/13/2000 0 - 1 Grab
Cyanide	mg/kg	0.55 U		0.57 U	0.57 = *	0.6 U
Chromium, hexavalent	mg/kg					
Aluminum	mg/kg	2,290 =	1,130 =	17,500 =	7,360 =	14,200 =
Antimony	mg/kg	1.1 UJ	1.1 UJ	1.1 UJ	1.1 UJ	1.2 UJ
Arsenic	mg/kg	9.2 =	6.6 =	12.7 =	6.8 =	11.7 =
Barium	mg/kg	39.1 =	13.3 J	95.3 = *	52.3 =	95 = *
Beryllium	mg/kg	0.089 U	0.074 U	0.62 =	0.32 J	0.56 J
Cadmium	mg/kg	1.7 = *	0.83 = *	0.45 J *	2.8 = *	0.69 = *
Calcium	mg/kg	969 =	609 =	672 =	2,550 =	1,640 =
Chromium	mg/kg	7.9 =	4.2 =	20.4 = *	10.7 =	17.5 = *
Cobalt	mg/kg	3.3 J	1.5 J	18.5 = *	6.6 =	10.7 = *
Copper	mg/kg	17.3 J	6.6 J	13.4 J	9.2 J	15.1 J
Iron	mg/kg	11,500 J	5,190 J	25,600 J *	14,900 J	22,300 J
Lead	mg/kg	136 = *	110 = *	29.7 = *	25.1 =	24.6 =
Magnesium	mg/kg	592 =	310 J	2,100 =	1,160 =	1,980 =
Manganese	mg/kg	207 J	96.5 J	1,380 J	631 =	880 =
Mercury	mg/kg	0.03 J	0.11 U	0.052 J *	0.049 J *	0.064 J *
Nickel	mg/kg	8 =	3.5 J	15.7 =	9.7 =	14.2 =
Potassium	mg/kg	418 J	224 J	1,100 = *	682 =	990 = *
Selenium	mg/kg	0.43 J	0.74 =	1.1 =	0.7 =	0.85 =
Silver	mg/kg	1.1 U	1.1 U	1.1 U	1.1 U	1.2 U
Sodium	mg/kg	549 U	528 U	572 U	535 U	597 U
Thallium	mg/kg	0.26 J *	0.17 J *	0.69 = *	0.35 J *	0.58 J *
Vanadium	mg/kg	5.9 =	2.7 J	36.5 = *	14.9 =	28 =
Zinc	mg/kg	142 J *	79.7 J *	62.5 J *	48.1 J	64.4 J *
Total Organic Carbon	mg/kg					

Table 4-31. Results for Surface Soil Samples – Inorganic Constituents and Total Organic Carbon (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-4/4A and CA-6/6A LL1-169 LL10869 LL1ss-169-0869-SO 09/18/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-170 LL10870 LL1ss-170-0870-SO 09/18/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-171 LL10872 LL1ss-171-0872-SO 09/18/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-171 LL1114 LL1ss-171-1114-SO 09/18/2000 0 - 1 Field Duplicate	CB-4/4A and CA-6/6A LL1-172 LL10873 LL1ss-172-0873-SO 09/18/2000 0 - 1 Grab
Cyanide	mg/kg	0.57 U			0.62 = *	
Chromium, hexavalent	mg/kg	1.1 UJ	1.1 UJ	1.1 UJ	1.1 UJ	1.1 UJ
Aluminum	mg/kg	3,910 =	1,820 =	1,310 =	1,170 =	1,490 =
Antimony	mg/kg	1.2 J *	0.59 J	1.1 UJ	1.1 UJ	1.1 UJ
Arsenic	mg/kg	6.3 =	3.9 =	3.2 =	3.6 =	3.7 =
Barium	mg/kg	73.2 =	16.9 J	98 = *	20.3 J	25.6 =
Beryllium	mg/kg	0.19 U	0.14 U	0.079 U	0.11 U	0.15 U
Cadmium	mg/kg	0.39 J *	0.55 U	0.29 J *	0.54 U	0.067 J *
Calcium	mg/kg	11,200 =	748 =	4,160 =	1,740 =	731 =
Chromium	mg/kg	25.4 = *	6.6 =	13.1 =	6.5 J	7.3 =
Cobalt	mg/kg	4.3 J	2.6 J	2.2 J	2 J	2.5 J
Copper	mg/kg	19.8 = *	8.9 =	13.7 =	15.5 =	6 =
Iron	mg/kg	13,100 =	10,800 =	8,800 =	10,600 =	9,980 =
Lead	mg/kg	135 = *	24.2 =	129 = *	58.9 = *	71.4 = *
Magnesium	mg/kg	1,100 =	382 J	543 J	397 J	326 J
Manganese	mg/kg	473 =	329 =	373 =	317 =	442 =
Mercury	mg/kg	0.04 J *	0.11 U	0.017 J	0.062 J *	0.03 J
Nickel	mg/kg	12 J	6.8 J	6 J	6.1 J	6.2 J
Potassium	mg/kg	685 =	456 =	325 J	287 J	350 J
Selenium	mg/kg	0.42 J	0.55 U	0.55 U	0.39 J	0.55 U
Silver	mg/kg	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Sodium	mg/kg	70.7 U	552 U	102 U	68 U	87.8 U
Thallium	mg/kg	0.55 J *	0.47 J *	0.43 J *	0.47 J *	0.41 J *
Vanadium	mg/kg	8.7 =	5.4 J	4.7 J	5 J	5.4 J
Zinc	mg/kg	182 = *	62.1 = *	126 = *	92.3 = *	86.7 = *
Total Organic Carbon	mg/kg					

Table 4-31. Results for Surface Soil Samples – Inorganic Constituents and Total Organic Carbon (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-4/4A and CA-6/6A LL1-173 LL10874 LL1ss-173-0874-SO 09/18/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-174 LL10876 LL1ss-174-0876-SO 09/18/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-175 LL10877 LL1ss-175-0877-SO 09/18/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-176 LL10878 LL1ss-176-0878-SO 09/18/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-177 LL10880 LL1ss-177-0880-SO 09/18/2000 0 - 1 Grab
Cyanide	mg/kg	0.58 U			0.54 U	
Chromium, hexavalent	mg/kg	1.2 UJ	1.1 UJ	1.1 UJ	1.1 UJ	1.2 UJ
Aluminum	mg/kg	3,050 =	1,450 =	1,520 =	2,230 =	1,490 =
Antimony	mg/kg	1.2 UJ	1.1 UJ	1.1 UJ	1.1 UJ	1.2 UJ
Arsenic	mg/kg	5.3 =	4.2 =	3.7 =	4.9 =	4.6 =
Barium	mg/kg	45.4 =	53.4 =	14.8 J	25.1 =	18.5 J
Beryllium	mg/kg	0.28 U	0.12 U	0.13 U	0.15 U	0.11 U
Cadmium	mg/kg	0.73 = *	0.39 J *	0.055 J *	0.54 U	1.6 = *
Calcium	mg/kg	1,620 J	1,990 =	1,130 =	947 =	1,060 =
Chromium	mg/kg	11.7 =	9 =	7.6 =	7.8 =	8.3 =
Cobalt	mg/kg	3.9 J	2.5 J	2.3 J	2.8 J	2.8 J
Copper	mg/kg	14.6 =	11.1 =	9.3 =	8.6 =	21.6 = *
Iron	mg/kg	11,900 =	10,300 =	10,600 =	10,400 =	13,500 =
Lead	mg/kg	69 J *	129 = *	98.3 = *	60.3 = *	142 = *
Magnesium	mg/kg	708 =	473 J	282 J	528 J	548 J
Manganese	mg/kg	470 =	408 =	397 =	347 =	517 =
Mercury	mg/kg	0.028 J	0.019 J	0.094 J *	0.023 J	0.028 J
Nickel	mg/kg	9.5 J	7.5 J	6.2 J	7.3 J	9.6 J
Potassium	mg/kg	473 J	304 J	400 J	430 J	308 J
Selenium	mg/kg	0.58 U	0.55 U	0.55 U	0.54 U	0.49 J
Silver	mg/kg	1.2 U	1.1 U	1.1 U	1.1 U	1.2 U
Sodium	mg/kg	577 U	99.2 U	78.6 U	90 U	73.6 U
Thallium	mg/kg	0.24 J *	0.45 J *	0.48 J *	0.48 J *	0.51 J *
Vanadium	mg/kg	6.6 =	5.3 J	5.5 =	6 =	5.8 J
Zinc	mg/kg	137 J *	168 = *	91.6 = *	72.4 = *	170 = *
Total Organic Carbon	mg/kg					

Table 4-31. Results for Surface Soil Samples – Inorganic Constituents and Total Organic Carbon (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-4/4A and CA-6/6A LL1-178 LL10881 LL1ss-178-0881-SO 09/18/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-202 LL10912 LL1ss-202-0912-SO 09/14/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-203 LL10913 LL1ss-203-0913-SO 09/14/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-204 LL10914 LL1ss-204-0914-SO 09/13/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-227 LL10944 LL1ss-227-0944-SO 09/14/2000 0 - 1 Grab
Cyanide	mg/kg		0.57 U	0.58 U	0.58 U	0.54 U
Chromium, hexavalent	mg/kg	1.2 UJ				
Aluminum	mg/kg	2,140 =	10,700 J	12,600 J	13,800 =	6,500 =
Antimony	mg/kg	1.2 U	1.1 U	1.2 U	1.2 UJ	1.1 UJ
Arsenic	mg/kg	6.5 =	10.1 =	9.9 =	11.4 =	12.1 =
Barium	mg/kg	32.8 =	64.1 =	69.3 =	85.7 =	31.5 =
Beryllium	mg/kg	0.13 U	0.34 U	0.38 J	0.61 =	0.25 U
Cadmium	mg/kg	2 = *	0.42 J *	0.2 J *	0.37 J *	0.25 J *
Calcium	mg/kg	1,340 =	1,510 =	365 J	869 =	12,900 J
Chromium	mg/kg	10.9 =	13.5 =	13.7 =	18.5 = *	8 =
Cobalt	mg/kg	3.2 J	10.1 =	8.9 =	12.2 = *	6.1 =
Copper	mg/kg	34.3 = *	12.8 =	11.7 =	13.8 J	21.4 = *
Iron	mg/kg	18,100 =	18,400 =	19,600 =	23,400 J *	16,400 =
Lead	mg/kg	215 = *	26.6 = *	13.2 =	24.8 =	10.6 =
Magnesium	mg/kg	995 =	1,770 =	1,740 =	1,890 =	2,280 =
Manganese	mg/kg	420 =	482 =	347 =	990 J	332 =
Mercury	mg/kg	0.046 J *	0.19 = *	0.052 J *	0.069 J *	0.11 U
Nickel	mg/kg	11.9 J	14.5 =	14.9 =	15.3 =	14.1 =
Potassium	mg/kg	376 J	801 =	709 =	880 =	965 = *
Selenium	mg/kg	0.53 J	0.93 =	1 =	1.5 = *	0.54 U
Silver	mg/kg	1.2 U	1.1 U	1.2 U	1.2 U	1.1 U
Sodium	mg/kg	590 U	567 U	584 U	583 U	137 U
Thallium	mg/kg	0.42 J *	0.57 = *	0.51 J *	0.52 J *	0.51 U
Vanadium	mg/kg	6.9 =	20.2 =	22.6 =	27.7 =	11.3 =
Zinc	mg/kg	198 J *	58.5 =	48 =	70.7 J *	62.8 = *
Total Organic Carbon	mg/kg					

Table 4-31. Results for Surface Soil Samples – Inorganic Constituents and Total Organic Carbon (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-4/4A and CA-6/6A LL1-228 LL10946 LL1ss-228-0946-SO 09/14/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-229 LL10948 LL1ss-229-0948-SO 09/14/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-230 LL10949 LL1ss-230-0949-SO 09/14/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-231 LL10950 LL1ss-231-0950-SO 09/14/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-232 LL10952 LL1ss-232-0952-SO 09/14/2000 0 - 1 Grab
Cyanide	mg/kg		0.57 U		0.54 U	
Chromium, hexavalent	mg/kg					
Aluminum	mg/kg	8,460 J	10,300 =	7,890 =	4,030 =	6,870 J
Antimony	mg/kg	1.1 U	1.1 UJ	1.1 UJ	1.1 UJ	1.1 U
Arsenic	mg/kg	12.3 =	9.9 =	10.7 =	8.3 =	9.6 =
Barium	mg/kg	39 =	38.4 =	35.5 =	25 =	37.2 =
Beryllium	mg/kg	0.32 U	0.24 U	0.25 U	0.17 U	0.23 U
Cadmium	mg/kg	0.33 J *	0.13 J *	0.42 J *	0.17 J *	0.2 J *
Calcium	mg/kg	4,120 =	918 J	5,610 J	6,810 J	5,880 =
Chromium	mg/kg	10.8 =	12 =	12.4 =	6 =	8.4 =
Cobalt	mg/kg	14.9 = *	6.7 =	9.7 =	5.6 =	5.9 =
Copper	mg/kg	23.7 = *	12.6 =	20.5 = *	19.4 = *	16.2 =
Iron	mg/kg	22,800 =	17,900 =	18,300 =	12,500 =	15,300 =
Lead	mg/kg	13.3 =	10.2 =	10.8 =	16.1 =	10.9 =
Magnesium	mg/kg	2,340 =	1,540 =	2,710 =	2,100 =	2,170 =
Manganese	mg/kg	383 =	274 =	362 =	340 =	431 =
Mercury	mg/kg	0.01 J	0.04 J *	0.015 J	0.11 U	0.11 U
Nickel	mg/kg	19.2 =	11.8 =	15.8 =	11.3 =	13.9 =
Potassium	mg/kg	1,220 = *	1,170 = *	1,290 = *	813 =	1,170 = *
Selenium	mg/kg	0.92 =	0.5 J	0.46 J	0.54 U	0.56 U
Silver	mg/kg	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Sodium	mg/kg	62.8 J	167 U	125 U	137 U	93.9 J
Thallium	mg/kg	0.45 J *	0.45 U	0.49 U	0.61 J *	0.47 J *
Vanadium	mg/kg	15.3 =	20.5 =	15.7 =	7.5 =	12 =
Zinc	mg/kg	79.7 = *	43.6 =	64.2 = *	49.7 =	55.3 =
Total Organic Carbon	mg/kg					

Table 4-31. Results for Surface Soil Samples – Inorganic Constituents and Total Organic Carbon (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-4/4A and CA-6/6A LL1-233 LL10954 LL1ss-233-0954-SO 09/16/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-234 LL10956 LL1ss-234-0956-SO 09/16/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-235 LL10957 LL1ss-235-0957-SO 09/16/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-236 LL10959 LL1ss-236-0959-SO 09/16/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-254 LL10982 LL1ss-254-0982-SO 09/18/2000 0 - 1 Grab
Cyanide	mg/kg	0.54 U		0.55 U		
Chromium, hexavalent	mg/kg					1.1 UJ
Aluminum	mg/kg	5,480 J	6,410 J	6,040 J	6,360 J	8,540 =
Antimony	mg/kg	1.1 UJ	1.1 UJ	1.1 UJ	1.1 UJ	1.1 UJ
Arsenic	mg/kg	10.7 J	13.1 J	10.8 J	10 J	9.9 =
Barium	mg/kg	29.4 =	35.6 =	31.4 =	32.5 =	50.5 =
Beryllium	mg/kg	0.21 U	0.2 U	0.21 U	0.24 U	0.29 J
Cadmium	mg/kg	0.078 J *	0.058 J *	0.061 J *	0.054 J *	0.55 U
Calcium	mg/kg	2,370 J	2,360 J	2,600 J	3,880 J	924 =
Chromium	mg/kg	7.4 =	8.1 =	8.4 =	8.4 =	13 =
Cobalt	mg/kg	6.2 =	6.4 =	7 =	11.7 = *	6.7 =
Copper	mg/kg	19.5 = *	18.1 = *	18.6 = *	17.5 =	10.2 =
Iron	mg/kg	17,000 J	17,000 J	17,100 J	16,500 J	18,300 =
Lead	mg/kg	10.6 J	12.7 J	10.9 J	11.5 J	28.6 = *
Magnesium	mg/kg	2,150 J	2,160 J	2,450 J	2,080 J	1,160 =
Manganese	mg/kg	334 J	330 J	367 J	325 J	472 =
Mercury	mg/kg	0.013 J	0.11 U	0.057 J *	0.01 J	0.099 J *
Nickel	mg/kg	13.8 J	13.7 J	15.2 J	14 J	11.2 J
Potassium	mg/kg	861 =	846 =	967 = *	1,050 = *	804 =
Selenium	mg/kg	0.54 U	0.55 U	0.55 U	0.55 U	0.79 =
Silver	mg/kg	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Sodium	mg/kg	64 J	66.4 J	551 U	550 U	552 U
Thallium	mg/kg	0.43 J *	0.46 J *	0.41 J *	0.41 J *	0.57 J *
Vanadium	mg/kg	10.2 =	11.2 =	10.3 =	10.5 =	19.2 =
Zinc	mg/kg	64 J *	56.6 J	60 J	58.7 J	58.9 =
Total Organic Carbon	mg/kg					

Table 4-31. Results for Surface Soil Samples – Inorganic Constituents and Total Organic Carbon (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-4/4A and CA-6/6A LL1-255 LL10983 LL1ss-255-0983-SO 09/17/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-256 LL10984 LL1ss-256-0984-SO 09/17/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-257 LL10985 LL1ss-257-0985-SO 09/17/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-258 LL10986 LL1ss-258-0986-SO 09/17/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-259 LL10987 LL1ss-259-0987-SO 09/17/2000 0 - 1 Grab
Cyanide	mg/kg		0.57 U			
Chromium, hexavalent	mg/kg					
Aluminum	mg/kg	10,600 J	16,300 J	16,700 J	20,200 = *	13,300 =
Antimony	mg/kg	1.2 UJ	1.1 UJ	1.3 UJ	1.3 UJ	1.2 UJ
Arsenic	mg/kg	10.2 =	13.1 =	17.5 = *	14.9 =	8.8 =
Barium	mg/kg	69 =	79.3 =	85.2 =	105 = *	65.1 =
Beryllium	mg/kg	0.44 J	0.45 J	0.77 =	0.83 =	0.46 J
Cadmium	mg/kg	0.23 J *	0.2 J *	0.3 J *	0.069 J *	0.6 U
Calcium	mg/kg	441 J	387 J	502 J	548 J	328 J
Chromium	mg/kg	12.7 =	18.6 = *	18.8 = *	20.9 = *	15 =
Cobalt	mg/kg	13.9 J *	7.4 J	16.4 J *	24.9 = *	12.6 = *
Copper	mg/kg	10 =	12 =	13.1 =	14.4 =	11 =
Iron	mg/kg	21,000 =	26,700 = *	37,200 = *	30,200 = *	20,200 =
Lead	mg/kg	24 =	21.6 =	25.4 =	20.7 =	14.2 =
Magnesium	mg/kg	1,280 =	1,940 =	1,650 =	2,340 =	1,680 =
Manganese	mg/kg	1,040 =	337 =	1,170 =	2,220 J *	687 J
Mercury	mg/kg	0.12 = *	0.086 J *	0.074 J *	0.081 J *	0.056 J *
Nickel	mg/kg	12.3 =	15.3 =	13.8 =	20 =	13.6 =
Potassium	mg/kg	680 =	1,010 = *	890 =	1,190 = *	757 =
Selenium	mg/kg	1 =	1.3 =	0.97 =	0.62 J	0.4 J
Silver	mg/kg	1.2 U	1.1 U	1.3 U	1.3 U	1.2 U
Sodium	mg/kg	584 U	572 U	308 J *	672 U	604 U
Thallium	mg/kg	0.64 J *	0.62 = *	0.64 = *	0.94 = *	0.64 J *
Vanadium	mg/kg	22.7 =	33.3 = *	38.4 = *	40.3 = *	25.5 =
Zinc	mg/kg	58.6 =	57.5 =	59.5 =	74.4 J *	55.9 J
Total Organic Carbon	mg/kg					

Table 4-31. Results for Surface Soil Samples – Inorganic Constituents and Total Organic Carbon (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-4/4A and CA-6/6A LL1-260 LL10988 LL1ss-260-0988-SO 09/16/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-261 LL10989 LL1ss-261-0989-SO 09/16/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-262 LL10990 LL1ss-262-0990-SO 09/17/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-263 LL10991 LL1ss-263-0991-SO 09/17/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-264 LL10992 LL1ss-264-0992-SO 09/18/2000 0 - 1 Grab
Cyanide	mg/kg		0.6 U			0.65 U
Chromium, hexavalent	mg/kg					1.3 UJ
Aluminum	mg/kg	9,160 J	11,900 J	10,600 J	13,100 =	12,600 =
Antimony	mg/kg	1.2 UJ	1.2 UJ	1.2 UJ	1.3 UJ	1.3 UJ
Arsenic	mg/kg	7.4 J	9.9 J	9.3 =	10.9 =	11.8 =
Barium	mg/kg	40.6 =	67.8 =	73.1 =	62.7 =	78.9 =
Beryllium	mg/kg	0.27 U	0.44 J	0.64 =	0.38 J	0.4 J
Cadmium	mg/kg	0.58 U	0.067 J *	0.21 J *	0.65 U	0.65 U
Calcium	mg/kg	460 J	2,220 J	7,990 =	576 J	1,070 =
Chromium	mg/kg	12 =	14.3 =	11 =	16.3 =	14.7 =
Cobalt	mg/kg	5.8 =	7.1 =	5 J	9.5 =	18.4 = *
Copper	mg/kg	10.4 =	18 = *	14.8 =	12.7 =	10.5 =
Iron	mg/kg	16,100 J	20,000 J	16,600 =	21,500 =	25,400 = *
Lead	mg/kg	11.1 J	14.1 J	11.2 =	14 =	19 =
Magnesium	mg/kg	1,500 J	1,890 J	2,540 =	2,140 =	1,530 =
Manganese	mg/kg	301 J	432 J	480 =	439 J	1,180 =
Mercury	mg/kg	0.053 J *	0.045 J *	0.03 J	0.073 J *	0.046 J *
Nickel	mg/kg	12.6 J	15.5 J	12.3 =	16 =	11.3 J
Potassium	mg/kg	795 =	942 = *	709 =	1,080 = *	775 =
Selenium	mg/kg	0.58 U	0.65 =	0.87 =	0.76 =	0.75 =
Silver	mg/kg	1.2 U	1.2 U	1.2 U	1.3 U	1.3 U
Sodium	mg/kg	581 U	598 U	584 U	651 U	651 U
Thallium	mg/kg	0.48 J *	0.5 J *	0.43 J *	0.64 J *	0.78 J *
Vanadium	mg/kg	16 =	22.3 =	16.5 =	25 =	29.2 =
Zinc	mg/kg	67 J *	84 J *	71.3 = *	65.4 J *	54.8 =
Total Organic Carbon	mg/kg					

Table 4-31. Results for Surface Soil Samples – Inorganic Constituents and Total Organic Carbon (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-4/4A and CA-6/6A LL1-265 LL10993 LL1ss-265-0993-SO 09/18/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-266 LL10994 LL1ss-266-0994-SO 09/17/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-267 LL10995 LL1ss-267-0995-SO 09/25/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-268 LL10996 LL1ss-268-0996-SO 09/18/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-269 LL10997 LL1ss-269-0997-SO 09/25/2000 0 - 1 Grab
Cyanide	mg/kg		0.68 U			
Chromium, hexavalent	mg/kg	1.3 UJ		1.4 UJ	1.3 UJ	1.4 UJ
Aluminum	mg/kg	16,500 =	16,400 =	14,300 =	12,800 =	11,400 =
Antimony	mg/kg	1.3 UJ	1.4 UJ	1.4 UJ	1.3 UJ	1.4 UJ
Arsenic	mg/kg	12.4 =	11.9 =	11.6 =	11.1 =	9.5 =
Barium	mg/kg	79.6 =	98.3 = *	83.6 =	70.5 =	71 =
Beryllium	mg/kg	0.14 U	0.69 J	0.42 J	0.41 J	0.28 U
Cadmium	mg/kg	0.67 U	0.68 U	0.7 U	0.66 U	0.72 U
Calcium	mg/kg	834 =	4,960 J	5,480 =	1,970 =	4,230 =
Chromium	mg/kg	18.7 = *	17.9 = *	16.6 =	16 =	13.6 =
Cobalt	mg/kg	4.5 J	10.7 = *	10.6 = *	8.5 =	7.4 =
Copper	mg/kg	11.7 =	18.2 = *	22.9 = *	16.1 =	16.7 =
Iron	mg/kg	26,400 = *	26,100 = *	23,600 = *	23,200 = *	18,900 =
Lead	mg/kg	10.1 =	20 =	18.7 =	22.2 =	17.1 =
Magnesium	mg/kg	2,060 =	2,170 =	2,080 =	1,920 =	1,710 =
Manganese	mg/kg	104 =	842 =	518 =	632 =	542 =
Mercury	mg/kg	0.026 J	0.08 J *	0.075 J *	0.1 J *	0.098 J *
Nickel	mg/kg	13.8 J	15.9 =	15.4 =	15.6 J	14 =
Potassium	mg/kg	1,040 = *	1,100 = *	1,030 = *	1,040 = *	794 =
Selenium	mg/kg	1 =	1.2 =	1.2 U	0.98 =	0.85 U
Silver	mg/kg	1.3 U	1.4 U	1.4 U	1.3 U	1.4 U
Sodium	mg/kg	673 U	676 U	696 UJ	658 U	724 UJ
Thallium	mg/kg	0.89 J *	0.59 J *	0.6 J *	1 J *	0.46 J *
Vanadium	mg/kg	34.1 = *	31.5 = *	30.3 =	26.4 =	23.5 =
Zinc	mg/kg	50.3 =	63 = *	64.4 = *	79.8 = *	57.4 =
Total Organic Carbon	mg/kg					

Table 4-31. Results for Surface Soil Samples – Inorganic Constituents and Total Organic Carbon (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-4/4A and CA-6/6A LL1-270 LL10998 LL1ss-270-0998-SO 09/25/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-271 LL10999 LL1ss-271-0999-SO 09/25/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-272 LL1000 LL1ss-272-1000-SO 09/25/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-273 LL1001 LL1ss-273-1001-SO 09/26/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-274 LL1002 LL1ss-274-1002-SO 09/15/2000 0 - 1 Grab
Cyanide	mg/kg	0.68 U				0.59 U
Chromium, hexavalent	mg/kg	1.4 UJ	1.4 UJ	1.4 UJ	1.3 UJ	
Aluminum	mg/kg	13,900 =	15,000 =	12,900 =	14,400 J	13,000 =
Antimony	mg/kg	1.4 UJ	1.4 UJ	1.4 UJ	0.78 J	1.2 UJ
Arsenic	mg/kg	13.3 =	11.4 =	11.5 =	9.6 =	9.7 =
Barium	mg/kg	83.5 =	84.6 =	82.2 =	69 J	63.7 =
Beryllium	mg/kg	0.49 J	0.38 J	0.37 J	0.23 UJ	0.39 J
Cadmium	mg/kg	0.68 U	0.69 U	0.69 U	0.65 U	0.49 J *
Calcium	mg/kg	1,750 =	3,500 =	6,660 =	907 =	578 J
Chromium	mg/kg	16.4 =	17.6 = *	15.4 =	17 =	15.6 =
Cobalt	mg/kg	10.4 =	10.6 = *	8.7 =	6.1 J	8.7 =
Copper	mg/kg	16.8 =	14.2 =	14 =	14.1 J	15.1 J
Iron	mg/kg	26,000 = *	23,200 = *	24,800 = *	21,100 J	20,700 =
Lead	mg/kg	17.1 =	22.2 =	15.9 =	14.7 J	16.5 =
Magnesium	mg/kg	1,910 =	2,080 =	2,230 =	2,110 J	2,120 =
Manganese	mg/kg	598 =	866 =	661 =	228 J	370 =
Mercury	mg/kg	0.073 J *	0.091 J *	0.069 J *	0.13 = *	0.04 J *
Nickel	mg/kg	15.5 =	15 =	13.7 =	14.9 J	16 =
Potassium	mg/kg	957 = *	1,080 = *	772 =	1,040 = *	1,190 = *
Selenium	mg/kg	1.3 U	0.82 U	1.5 U	2.1 UJ	1.2 =
Silver	mg/kg	1.4 U	1.4 U	1.4 U	1.3 U	1.2 U
Sodium	mg/kg	683 UJ	689 UJ	686 UJ	653 U	588 U
Thallium	mg/kg	0.51 J *	0.61 J *	0.64 J *	0.4 J *	0.59 = *
Vanadium	mg/kg	28.3 =	31.3 = *	27.3 =	28.4 J	23.2 =
Zinc	mg/kg	60.9 =	61.1 =	53.8 =	56.1 J	55.1 =
Total Organic Carbon	mg/kg					

Table 4-31. Results for Surface Soil Samples – Inorganic Constituents and Total Organic Carbon (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-4/4A and CA-6/6A LL1-275 LL1003 LL1ss-275-1003-SO 09/15/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-276 LL1004 LL1ss-276-1004-SO 09/15/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-276 LL1107 LL1ss-276-1107-SO 09/15/2000 0 - 1 Field Duplicate	CB-4/4A and CA-6/6A LL1-277 LL1005 LL1ss-277-1005-SO 09/15/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-278 LL1006 LL1ss-278-1006-SO 09/15/2000 0 - 1 Grab
Cyanide	mg/kg				0.6 U	
Chromium, hexavalent	mg/kg					
Aluminum	mg/kg	13,200 =	12,100 =	11,400 =	15,000 =	13,500 =
Antimony	mg/kg	1.2 UJ	1.2 UJ	1.2 UJ	1.2 UJ	1.2 UJ
Arsenic	mg/kg	11.6 =	10.3 =	10.7 =	15.8 = *	14.4 =
Barium	mg/kg	71.7 =	78.6 =	76.7 =	74.5 =	97.8 = *
Beryllium	mg/kg	0.55 J	0.44 J	0.45 J	0.73 =	0.58 J
Cadmium	mg/kg	0.7 = *	0.62 = *	0.67 = *	1 = *	1 = *
Calcium	mg/kg	644 =	529 J	631 =	1,230 =	878 =
Chromium	mg/kg	17.1 =	15.5 =	14.4 =	20.5 = *	18.2 = *
Cobalt	mg/kg	10.8 = *	10.5 = *	9.6 =	10.4 =	13.7 = *
Copper	mg/kg	17.8 J *	14 J	14.2 J	21.6 J *	18.8 J *
Iron	mg/kg	25,500 = *	21,800 =	21,500 =	38,800 = *	27,800 = *
Lead	mg/kg	20.6 =	23.7 =	23.5 =	19.3 =	41.5 = *
Magnesium	mg/kg	2,400 =	2,090 =	1,960 =	2,830 =	2,430 =
Manganese	mg/kg	683 =	700 =	690 =	615 =	951 =
Mercury	mg/kg	0.044 J *	0.05 J *	0.053 J *	0.06 J *	0.067 J *
Nickel	mg/kg	18.4 =	16.1 =	15.7 =	21.3 = *	19.6 =
Potassium	mg/kg	1,310 = *	1,050 = *	971 = *	1,790 = *	1,160 = *
Selenium	mg/kg	1.2 =	0.99 =	1.3 =	1.5 = *	1.5 = *
Silver	mg/kg	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Sodium	mg/kg	612 U	599 U	598 U	605 U	625 U
Thallium	mg/kg	0.51 J *	0.62 J *	0.67 J *	0.53 J *	0.55 J *
Vanadium	mg/kg	23.6 =	23.1 =	20.5 =	29.4 =	27.2 =
Zinc	mg/kg	61.9 = *	56.4 =	58.6 =	70.6 = *	74.3 = *
Total Organic Carbon	mg/kg					

Table 4-31. Results for Surface Soil Samples – Inorganic Constituents and Total Organic Carbon (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-4/4A and CA-6/6A LL1-279 LL1007 LL1ss-279-1007-SO 09/15/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-280 LL1008 LL1ss-280-1008-SO 09/15/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-281 LL1009 LL1ss-281-1009-SO 09/15/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-324 LL1195 LL1ss-324-1195-SO 09/15/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-325 LL1197 LL1ss-325-1197-SO 09/17/2000 0 - 1 Grab
Cyanide	mg/kg				0.58 U	0.95 = *
Chromium, hexavalent	mg/kg					
Aluminum	mg/kg	9,640 =	10,400 =	10,200 =	10,800 =	10,300 =
Antimony	mg/kg	1.2 UJ	1.2 UJ	1.2 UJ	1.2 UJ	1.2 UJ
Arsenic	mg/kg	11.1 =	13.2 =	11.4 =	13.5 =	12.4 =
Barium	mg/kg	71.8 =	78.9 =	73.7 =	57.8 =	110 = *
Beryllium	mg/kg	0.45 J	0.49 J	0.41 J	0.39 J	0.45 J
Cadmium	mg/kg	1.1 = *	0.72 = *	1.1 = *	0.71 = *	1.4 = *
Calcium	mg/kg	1,230 =	851 =	1,750 =	1,420 =	6,270 J
Chromium	mg/kg	14 =	14 =	14.9 =	14.8 =	20.5 = *
Cobalt	mg/kg	10.3 =	12.5 = *	9.5 =	11.2 = *	11.1 = *
Copper	mg/kg	16.9 J	16.9 J	20.4 J *	21.1 J *	33.9 = *
Iron	mg/kg	21,100 =	22,400 =	23,700 = *	25,900 = *	24,900 = *
Lead	mg/kg	49.7 = *	26.5 = *	91.9 = *	22.5 =	95.3 = *
Magnesium	mg/kg	2,000 =	1,970 =	2,670 =	2,650 =	3,520 = *
Manganese	mg/kg	796 =	819 =	436 =	352 =	437 =
Mercury	mg/kg	0.055 J *	0.05 J *	0.031 J	0.03 J	0.03 J
Nickel	mg/kg	17.4 =	18.1 =	21.1 =	21 =	23.2 = *
Potassium	mg/kg	1,080 = *	947 = *	1,210 = *	988 = *	1,370 = *
Selenium	mg/kg	1 =	1.2 =	0.86 =	1 =	0.8 =
Silver	mg/kg	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Sodium	mg/kg	606 U	607 U	612 U	580 U	599 U
Thallium	mg/kg	0.46 J *	0.41 J *	0.53 J *	0.56 J *	0.79 J *
Vanadium	mg/kg	18.8 =	21 =	17.8 =	19.2 =	18.1 =
Zinc	mg/kg	80.4 = *	58.1 =	89.6 = *	83 = *	149 = *
Total Organic Carbon	mg/kg					

Table 4-31. Results for Surface Soil Samples – Inorganic Constituents and Total Organic Carbon (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-4/4A and CA-6/6A LL1-326 LL1198 LL1ss-326-1198-SO 09/17/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-327 LL1109 LL1ss-327-1109-SO 09/16/2000 0 - 1 Field Duplicate	CB-4/4A and CA-6/6A LL1-327 LL1199 LL1ss-327-1199-SO 09/16/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-328 LL1200 LL1ss-328-1200-SO 09/16/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-329 LL1201 LL1ss-329-1201-SO 09/16/2000 0 - 1 Grab
Cyanide	mg/kg		0.61 U	2.7 U		0.61 U
Chromium, hexavalent	mg/kg					
Aluminum	mg/kg	7,280 =	10,200 J	46,100 J *	11,100 J	13,900 =
Antimony	mg/kg	1.2 UJ	1.2 UJ	5.3 UJ	1.2 UJ	1.2 UJ
Arsenic	mg/kg	10.5 =	12.6 J	55.6 J *	13.4 J	13.9 =
Barium	mg/kg	47.7 =	79.9 =	408 = *	69.1 =	110 = *
Beryllium	mg/kg	0.35 U	0.48 J	2.1 J *	0.54 J	0.57 J
Cadmium	mg/kg	0.59 U	0.54 J *	3.3 = *	0.6 U	0.61 U
Calcium	mg/kg	1,540 J	3,750 J	10,700 J	4,210 J	1,990 J
Chromium	mg/kg	11.3 =	15.3 =	74.1 = *	15.8 =	19.1 = *
Cobalt	mg/kg	7.8 =	11 = *	49.3 = *	11 = *	10.8 = *
Copper	mg/kg	14.1 =	22.4 = *	106 = *	18.8 = *	20.8 = *
Iron	mg/kg	21,100 =	26,500 J *	111,000 J *	25,300 J *	26,500 = *
Lead	mg/kg	21.6 =	61.5 J *	222 J *	17.4 J	25.1 =
Magnesium	mg/kg	1,750 =	2,880 J	13,100 J *	2,850 J	3,000 =
Manganese	mg/kg	520 =	442 J	1,630 J *	523 J	437 =
Mercury	mg/kg	0.025 J	0.025 J	0.09 J *	0.028 J	0.036 J
Nickel	mg/kg	16.1 =	21.2 J *	101 J *	23.4 J *	24.9 = *
Potassium	mg/kg	756 =	1,020 = *	5,700 = *	1,250 = *	1,870 = *
Selenium	mg/kg	0.59 U	0.38 J	2.7 U	0.6 U	0.93 =
Silver	mg/kg	1.2 U	1.2 U	5.3 U	1.2 U	1.2 U
Sodium	mg/kg	587 U	612 U	2,670 U	597 U	613 U
Thallium	mg/kg	0.68 = *	0.5 J *	2.5 J *	0.69 J *	0.52 J *
Vanadium	mg/kg	13.6 =	17.4 =	77.9 = *	19.5 =	24.2 =
Zinc	mg/kg	63.5 = *	111 J *	658 J *	72.9 J *	105 = *
Total Organic Carbon	mg/kg					

Table 4-31. Results for Surface Soil Samples – Inorganic Constituents and Total Organic Carbon (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-4/4A and CA-6/6A LL1-330 LL1202 LL1ss-330-1202-SO 09/16/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-331 LL1203 LL1ss-331-1203-SO 09/16/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-332 LL1204 LL1ss-332-1204-SO 09/16/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-333 LL1205 LL1ss-333-1205-SO 09/16/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-334 LL1206 LL1ss-334-1206-SO 09/16/2000 0 - 1 Grab
Cyanide	mg/kg		0.58 U		0.58 U	
Chromium, hexavalent	mg/kg					
Aluminum	mg/kg	11,400 =	9,290 J	13,500 =	8,780 =	11,300 =
Antimony	mg/kg	1.3 UJ	1.2 UJ	1.2 UJ	1.2 UJ	1 J *
Arsenic	mg/kg	8.6 =	9.4 J	15.1 =	10.7 =	13.1 =
Barium	mg/kg	97.9 = *	76.4 =	120 = *	191 = *	67.7 =
Beryllium	mg/kg	1.5 J *	0.61 =	0.62 =	0.37 J	0.51 J
Cadmium	mg/kg	0.44 J *	0.39 J *	1.3 = *	3 = *	0.38 J *
Calcium	mg/kg	23,800 J *	11,200 J	2,860 =	1,010 =	1,980 =
Chromium	mg/kg	10.9 =	13 =	22.1 = *	12.4 =	16.5 =
Cobalt	mg/kg	5.7 J	8 =	11.4 = *	8.2 =	10.7 = *
Copper	mg/kg	12.9 =	17.2 =	26.5 = *	14.6 =	20.9 = *
Iron	mg/kg	14,300 =	17,700 J	33,300 = *	19,000 =	27,100 = *
Lead	mg/kg	37.3 = *	24.1 J	49.7 = *	674 = *	21.8 =
Magnesium	mg/kg	5,950 = *	3,500 J *	3,300 = *	1,910 =	2,990 =
Manganese	mg/kg	803 =	778 J	367 J	438 J	356 J
Mercury	mg/kg	0.039 J *	0.021 J	0.032 J	0.03 J	0.027 J
Nickel	mg/kg	13.1 =	14.9 J	26.2 = *	16.4 =	23 = *
Potassium	mg/kg	1,140 = *	853 =	2,010 = *	1,050 = *	1,210 = *
Selenium	mg/kg	0.89 =	0.58 U	0.61 U	0.58 U	0.59 U
Silver	mg/kg	1.3 U	1.2 U	1.2 U	1.2 U	1.2 U
Sodium	mg/kg	140 U	125 J *	612 U	73.6 J	592 U
Thallium	mg/kg	0.66 = *	0.42 J *	0.75 J *	0.65 J *	0.65 J *
Vanadium	mg/kg	12.8 =	13.9 =	23.8 =	15.5 =	19.4 =
Zinc	mg/kg	83.3 = *	84.5 J *	120 J *	408 J *	73.1 J *
Total Organic Carbon	mg/kg					

Table 4-31. Results for Surface Soil Samples – Inorganic Constituents and Total Organic Carbon (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-4/4A and CA-6/6A LL1-335 LL1207 LL1ss-335-1207-SO 09/16/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-336 LL1244 LL1ss-336-1244-SO 09/29/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-337 LL1226 LL1ss-337-1226-SO 09/29/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-338 LL1227 LL1ss-338-1227-SO 09/29/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-339 LL1241 LL1ss-339-1241-SO 09/29/2000 0 - 1 Grab
Cyanide	mg/kg	0.61 U		0.56 U	0.54 U	
Chromium, hexavalent	mg/kg					
Aluminum	mg/kg	11,800 =	10,900 =	6,890 =	3,940 =	2,670 J
Antimony	mg/kg	1.2 UJ	1.2 UJ	1.1 UJ	1.1 UJ	1.1 UJ
Arsenic	mg/kg	13.8 =	10.7 J	7.9 J	12.7 J	5.3 J
Barium	mg/kg	88.6 = *	73.3 J	59.8 J	19.4 J	70 =
Beryllium	mg/kg	0.51 J	0.48 J	0.28 J	0.094 UJ	0.14 UJ
Cadmium	mg/kg	0.92 = *	0.13 J *	0.61 J *	0.099 J *	1 J *
Calcium	mg/kg	2,120 =	1,140 =	4,150 =	1,490 =	6,640 J
Chromium	mg/kg	19.9 = *	14.4 J	31.3 J *	5.3 J	40.7 J *
Cobalt	mg/kg	11.1 = *	8.1 J	10 J	3.8 J	6.4 J
Copper	mg/kg	35.6 = *	12.2 J	17 J	14.9 J	22.2 J *
Iron	mg/kg	36,400 = *	21,800 =	16,200 =	12,200 =	13,600 =
Lead	mg/kg	98.8 = *	20.6 J	176 J *	10.7 J	63.8 J *
Magnesium	mg/kg	3,210 = *	1,450 J	1,330 J	935 J	11,300 = *
Manganese	mg/kg	379 J	798 =	604 =	233 =	312 =
Mercury	mg/kg	0.024 J	0.12 = *	0.23 = *	0.11 U	0.18 = *
Nickel	mg/kg	36.1 = *	14.1 J	11.9 J	9.2 J	82.8 J *
Potassium	mg/kg	1,270 = *	789 J	773 J	715 J	565 =
Selenium	mg/kg	0.61 U	0.81 J	0.78 J	0.54 UJ	0.34 J
Silver	mg/kg	1.2 U	1.2 U	1.1 U	1.1 U	1.1 U
Sodium	mg/kg	608 U	66.2 UJ	62.9 UJ	62.4 UJ	539 U
Thallium	mg/kg	0.81 = *	0.49 J *	0.47 J *	0.34 J *	0.17 J *
Vanadium	mg/kg	19.4 =	24 J	13.6 J	8.8 J	7.4 =
Zinc	mg/kg	228 J *	57.3 J	140 J *	60.1 J	117 J *
Total Organic Carbon	mg/kg					

Table 4-31. Results for Surface Soil Samples – Inorganic Constituents and Total Organic Carbon (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-4/4A and CA-6/6A LL1-340 LL1328 LL1ss-340-1328-SO 10/02/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-341 LL1329 LL1ss-341-1329-SO 10/02/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-342 LL1243 LL1ss-342-1243-SO 09/29/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-343 LL1298 LL1ss-343-1298-SO 09/29/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-344 LL1300 LL1ss-344-1300-SO 09/29/2000 0 - 1 Grab
Cyanide	mg/kg					
Chromium, hexavalent	mg/kg					
Aluminum	mg/kg	4,910 =	5,670 =	2,720 =	3,500 =	4,250 =
Antimony	mg/kg	0.7 J	0.67 J	1.1 UJ	0.61 J	1.1 UJ
Arsenic	mg/kg	7.4 =	10.4 =	7.3 J	7.7 =	6 =
Barium	mg/kg	150 = *	147 = *	98.3 J *	93.4 J *	58.5 J
Beryllium	mg/kg	0.31 U	0.3 U	0.13 UJ	0.53 U	0.25 U
Cadmium	mg/kg	6.3 = *	1.7 = *	1.9 J *	2.4 J *	0.57 J *
Calcium	mg/kg	2,840 =	6,020 =	18,800 = *	7,100 J	6,760 J
Chromium	mg/kg	26.5 = *	17.8 = *	7.4 J	19.5 J *	10.3 J
Cobalt	mg/kg	7.9 =	7.2 =	3.6 J	5.2 J	5 J
Copper	mg/kg	43.7 = *	46.1 = *	27.1 J *	43.5 J *	17.5 J
Iron	mg/kg	37,000 = *	29,600 = *	13,200 =	18,100 =	11,500 =
Lead	mg/kg	402 = *	224 = *	64.2 J *	364 = *	118 = *
Magnesium	mg/kg	2,920 =	3,390 = *	2,910 J	1,220 =	1,150 =
Manganese	mg/kg	1,830 = *	588 =	322 =	266 =	452 =
Mercury	mg/kg	0.3 = *	0.24 = *	0.1 J *	0.048 U	0.074 J *
Nickel	mg/kg	26.8 = *	20.1 =	9.6 J	14.8 J	9.6 J
Potassium	mg/kg	737 =	883 =	1,600 J *	513 J	683 =
Selenium	mg/kg	0.49 J	0.46 J	0.53 UJ	0.53 U	0.54 U
Silver	mg/kg	1.2 U	1.1 U	1.1 U	1.1 U	1.1 U
Sodium	mg/kg	61.2 J	555 U	888 J *	60.7 J	86.4 J
Thallium	mg/kg	0.62 J *	0.49 J *	0.35 J *	0.23 J *	0.34 J *
Vanadium	mg/kg	12.8 =	11.6 =	5.6 J	8.2 =	8.6 =
Zinc	mg/kg	602 = *	219 = *	94.6 J *	424 = *	111 = *
Total Organic Carbon	mg/kg					

Table 4-31. Results for Surface Soil Samples – Inorganic Constituents and Total Organic Carbon (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-4/4A and CA-6/6A LL1-345 LL1130 LL1ss-345-1130-SO 09/29/2000 0 - 1 Field Duplicate	CB-4/4A and CA-6/6A LL1-345 LL1242 LL1ss-345-1242-SO 09/29/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-346 LL1210 LL1ss-346-1210-SO 09/29/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-347 LL1299 LL1ss-347-1299-SO 09/29/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-348 LL1330 LL1ss-348-1330-SO 10/02/2000 0 - 1 Grab
Cyanide	mg/kg			0.57 U	0.57 U	
Chromium, hexavalent	mg/kg					
Aluminum	mg/kg	12,000 =	11,800 =	12,300 =	9,070 =	8,850 =
Antimony	mg/kg	1.1 UJ	1.1 UJ	1.1 UJ	1.1 UJ	0.61 J
Arsenic	mg/kg	9.8 J	9.2 J	12.3 J	12 =	13.6 =
Barium	mg/kg	86.6 J	88.4 J	74.1 J	40.6 J	57.2 =
Beryllium	mg/kg	0.49 J	0.44 J	0.45 J	0.32 U	0.72 =
Cadmium	mg/kg	0.31 J *	0.22 J *	0.053 J *	0.14 J *	0.22 J *
Calcium	mg/kg	910 =	912 =	712 =	1,210 J	6,380 =
Chromium	mg/kg	14.4 J	14 J	15.3 J	11.2 J	16 =
Cobalt	mg/kg	8.2 J	7.9 J	8.8 J	6.7 =	9 =
Copper	mg/kg	16.1 J	19.3 J *	16.7 J	16.6 J	16.2 =
Iron	mg/kg	19,500 =	16,900 =	21,100 =	18,300 =	42,000 = *
Lead	mg/kg	32.7 J *	30 J *	18 J	23.3 =	85.6 = *
Magnesium	mg/kg	1,460 J	1,470 J	1,880 J	1,620 =	1,510 =
Manganese	mg/kg	663 =	619 =	493 =	274 =	905 =
Mercury	mg/kg	0.15 = *	0.16 = *	0.069 J *	0.099 J *	0.052 J *
Nickel	mg/kg	15.9 J	15.7 J	17.2 J	13.2 J	11.7 =
Potassium	mg/kg	835 J	818 J	1,000 J *	1,010 = *	692 =
Selenium	mg/kg	0.89 J	0.58 J	0.52 J	0.57 U	0.53 J
Silver	mg/kg	1.1 U	1.1 U	1.1 U	1.1 U	1.2 U
Sodium	mg/kg	558 UJ	536 UJ	573 UJ	567 U	579 U
Thallium	mg/kg	0.55 J *	0.46 J *	0.53 J *	0.48 J *	0.46 J *
Vanadium	mg/kg	26.3 J	24.5 J	23.9 J	16.4 =	20.8 =
Zinc	mg/kg	69.8 J *	62.9 J *	55.7 J	78.6 = *	76.4 = *
Total Organic Carbon	mg/kg					

Table 4-31. Results for Surface Soil Samples – Inorganic Constituents and Total Organic Carbon (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-4/4A and CA-6/6A LL1-349 LL1331 LL1ss-349-1331-SO 10/02/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-350 LL1304 LL1ss-350-1304-SO 09/29/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-351 LL1305 LL1ss-351-1305-SO 09/29/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-352 LL1301 LL1ss-352-1301-SO 09/29/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-353 LL1311 LL1ss-353-1311-SO 09/30/2000 0 - 1 Grab
Cyanide	mg/kg					
Chromium, hexavalent	mg/kg					
Aluminum	mg/kg	14,500 =	16,900 =	13,900 =	16,900 =	4,270 =
Antimony	mg/kg	1.2 UJ	1.2 UJ	1.2 UJ	1.2 UJ	1.1 UJ
Arsenic	mg/kg	14 =	11.3 =	9.6 =	9.7 =	5.2 =
Barium	mg/kg	74.8 =	99.2 J *	79.8 J	74.6 J	40.2 =
Beryllium	mg/kg	0.66 =	0.55 J	0.41 J	0.55 J	0.46 J
Cadmium	mg/kg	0.14 J *	0.6 UJ	0.58 UJ	0.58 UJ	0.26 J *
Calcium	mg/kg	1,350 =	385 J	123 J	308 J	13,700 J
Chromium	mg/kg	19.9 = *	19.4 J *	16.3 J	18.7 J *	11.2 =
Cobalt	mg/kg	13 = *	7.3 =	10.9 = *	10.3 =	3.5 J
Copper	mg/kg	14.7 =	12.6 J	9.6 J	10.5 J	11 =
Iron	mg/kg	26,800 = *	22,300 =	21,100 =	21,700 =	12,800 =
Lead	mg/kg	26.3 = *	20.3 =	15 =	16.4 =	116 = *
Magnesium	mg/kg	2,390 =	2,060 =	2,030 =	2,210 =	1,860 =
Manganese	mg/kg	789 =	391 =	508 =	657 =	581 =
Mercury	mg/kg	0.081 J *	0.088 J *	0.059 U	0.06 U	0.038 J *
Nickel	mg/kg	19.6 =	18.2 J	14.4 J	16.3 J	7.5 =
Potassium	mg/kg	1,960 = *	998 = *	1,030 = *	1,310 = *	770 =
Selenium	mg/kg	0.8 =	0.6 U	0.58 U	0.58 U	0.93 =
Silver	mg/kg	1.2 U	1.2 U	1.2 U	1.2 U	1.1 U
Sodium	mg/kg	583 U	597 U	581 U	582 U	286 J *
Thallium	mg/kg	0.5 U	0.55 J *	0.48 J *	0.57 J *	0.3 J *
Vanadium	mg/kg	27.4 =	34.2 = *	26.5 =	30.9 =	6.4 =
Zinc	mg/kg	69.1 = *	91.5 = *	57.3 =	59.8 =	55.9 J
Total Organic Carbon	mg/kg					

Table 4-31. Results for Surface Soil Samples – Inorganic Constituents and Total Organic Carbon (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-4/4A and CA-6/6A LL1-354 LL1303 LL1ss-354-1303-SO 09/29/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-355 LL1302 LL1ss-355-1302-SO 09/29/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-356 LL1312 LL1ss-356-1312-SO 09/30/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-357 LL1313 LL1ss-357-1313-SO 09/30/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-358 LL1129 LL1ss-358-1129-SO 09/30/2000 0 - 1 Field Duplicate
Cyanide	mg/kg	0.5 U			0.8 = *	
Chromium, hexavalent	mg/kg					
Aluminum	mg/kg	2,520 =	4,030 =	3,330 =	5,150 =	14,200 =
Antimony	mg/kg	1 UJ	1.1 UJ	1.3 J *	1.1 UJ	1.1 UJ
Arsenic	mg/kg	11.7 =	5.4 =	8.1 =	7.5 =	11 =
Barium	mg/kg	18.9 J	25.7 J	41.3 =	46.4 =	60.4 =
Beryllium	mg/kg	0.067 U	0.12 U	0.22 J	0.34 J	0.46 J
Cadmium	mg/kg	0.51 J *	0.49 J *	0.94 = *	3.5 = *	0.53 U
Calcium	mg/kg	801 J	971 J	8,080 J	9,010 J	197 J
Chromium	mg/kg	5 J	8.8 J	14.7 =	11.5 =	17.6 = *
Cobalt	mg/kg	3.8 J	3.4 J	5.3 J	5.5 =	9 =
Copper	mg/kg	66.8 J *	20.3 J *	44 = *	22 = *	12.5 =
Iron	mg/kg	11,600 =	9,870 =	20,900 =	16,200 =	21,800 =
Lead	mg/kg	28.8 = *	78.8 = *	636 = *	117 = *	13.7 =
Magnesium	mg/kg	756 =	1,000 =	2,510 =	2,160 =	1,830 =
Manganese	mg/kg	192 =	99 =	601 =	631 =	507 =
Mercury	mg/kg	0.038 U	0.048 U	0.052 J *	0.071 J *	0.061 J *
Nickel	mg/kg	9.4 J	9.2 J	19.9 =	11.6 =	14 =
Potassium	mg/kg	553 =	590 =	589 =	1,190 = *	1,020 = *
Selenium	mg/kg	0.5 U	0.55 U	1.1 =	0.99 =	1.5 = *
Silver	mg/kg	1 U	1.1 U	1.1 U	1.1 U	1.1 U
Sodium	mg/kg	504 U	546 U	60.3 U	545 = *	530 U
Thallium	mg/kg	0.3 J *	0.31 J *	0.48 J *	0.43 J *	0.57 = *
Vanadium	mg/kg	6.6 =	8.5 =	8.3 =	11.1 =	27.9 =
Zinc	mg/kg	104 = *	87.2 = *	122 J *	173 J *	49.1 J
Total Organic Carbon	mg/kg					

Table 4-31. Results for Surface Soil Samples – Inorganic Constituents and Total Organic Carbon (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-4/4A and CA-6/6A LL1-358 LL1314 LL1ss-358-1314-SO 09/30/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-359 LL1315 LL1ss-359-1315-SO 09/30/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-360 LL1316 LL1ss-360-1316-SO 09/30/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-361 LL1332 LL1ss-361-1332-SO 10/02/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-362 LL1281 LL1ss-362-1281-SO 10/02/2000 0 - 1 Field Duplicate
Cyanide	mg/kg					
Chromium, hexavalent	mg/kg					
Aluminum	mg/kg	12,900 =	14,500 =	16,000 =	13,600 =	7,340 =
Antimony	mg/kg	0.62 J	1.2 UJ	1.1 UJ	1.1 UJ	1.2 UJ
Arsenic	mg/kg	11.7 =	15.4 =	11.9 =	12.6 =	7.3 =
Barium	mg/kg	56.3 =	69 =	79.1 =	56.6 =	52.7 =
Beryllium	mg/kg	0.44 J	0.49 J	0.52 J	0.6 =	0.43 J
Cadmium	mg/kg	0.58 U	0.6 U	0.57 U	0.081 J *	0.2 J *
Calcium	mg/kg	158 J	641 J	486 J	388 J	5,330 =
Chromium	mg/kg	16.5 =	19.1 = *	20.5 = *	19.5 = *	10 =
Cobalt	mg/kg	10.3 =	8.9 =	10 =	9.6 =	5.7 J
Copper	mg/kg	12.9 =	14.4 =	23.1 = *	15.1 =	14.3 =
Iron	mg/kg	22,200 =	31,600 = *	25,200 = *	22,400 =	16,800 =
Lead	mg/kg	19.7 =	19.2 =	102 = *	17.1 =	44.8 = *
Magnesium	mg/kg	1,680 =	2,010 =	2,160 =	2,140 =	1,890 =
Manganese	mg/kg	568 =	491 =	599 =	391 =	675 =
Mercury	mg/kg	0.071 J *	0.063 J *	0.077 J *	0.044 J *	0.039 J *
Nickel	mg/kg	14.4 =	14.6 =	15.5 =	18.6 =	10.3 =
Potassium	mg/kg	881 =	769 =	1,240 = *	1,730 = *	775 =
Selenium	mg/kg	1.5 = *	2.1 = *	1.7 = *	0.85 =	0.64 =
Silver	mg/kg	1.2 U	1.2 U	1.1 U	1.1 U	1.2 U
Sodium	mg/kg	575 U	596 U	569 U	572 U	576 U
Thallium	mg/kg	0.69 J *	0.67 = *	0.64 J *	0.55 J *	0.54 J *
Vanadium	mg/kg	26.3 =	33.7 = *	31.4 = *	24.8 =	13.1 =
Zinc	mg/kg	53.5 J	52.6 J	85.6 J *	50.7 =	59.6 =
Total Organic Carbon	mg/kg					

Table 4-31. Results for Surface Soil Samples – Inorganic Constituents and Total Organic Carbon (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-4/4A and CA-6/6A LL1-362 LL1333 LL1ss-362-1333-SO 10/02/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-363 LL1250 LL1ss-363-1250-SO 09/29/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-364 LL1240 LL1ss-364-1240-SO 09/29/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-365 LL1238 LL1ss-365-1238-SO 09/29/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-366 LL1225 LL1ss-366-1225-SO 09/29/2000 0 - 1 Grab
Cyanide	mg/kg					0.55 U
Chromium, hexavalent	mg/kg					
Aluminum	mg/kg	9,240 =	5,570 =	10,600 =	3,530 =	3,100 =
Antimony	mg/kg	1.2 UJ	1.1 UJ	1.2 UJ	1.1 UJ	1.1 UJ
Arsenic	mg/kg	9 =	6.3 J	11.9 J	6.2 J	6.4 J
Barium	mg/kg	60.5 =	39.9 J	48.7 J	33.5 J	28.8 J
Beryllium	mg/kg	0.4 J	0.22 UJ	0.42 J	0.25 J	0.25 J
Cadmium	mg/kg	0.2 J *	0.79 J *	0.12 J *	0.24 J *	0.11 J *
Calcium	mg/kg	2,260 =	270 J	214 J	2,210 =	1,460 =
Chromium	mg/kg	14.1 =	10.5 J	16.2 J	8.6 J	7.1 J
Cobalt	mg/kg	7.5 =	4.8 J	9.3 J	3.7 J	4.3 J
Copper	mg/kg	14.5 =	13 J	14.6 J	8.3 J	8.3 J
Iron	mg/kg	20,100 =	15,500 =	24,000 = *	12,100 =	12,800 =
Lead	mg/kg	45 = *	52 J *	31.4 J *	35 J *	17.8 J
Magnesium	mg/kg	1,700 =	960 J	1,580 J	692 J	588 J
Manganese	mg/kg	751 =	570 =	823 =	493 =	536 =
Mercury	mg/kg	0.037 J *	0.042 J *	0.038 J *	0.11 U	0.015 J
Nickel	mg/kg	12.7 =	11.8 J	15.1 J	9 J	9.2 J
Potassium	mg/kg	1,090 = *	574 J	1,030 J *	651 J	517 J
Selenium	mg/kg	0.85 =	0.58 J	0.7 J	0.4 J	0.51 J
Silver	mg/kg	1.2 U	1.1 U	1.2 U	1.1 U	1.1 U
Sodium	mg/kg	577 U	569 UJ	607 UJ	72.7 UJ	57.9 U
Thallium	mg/kg	0.54 J *	0.49 J *	0.57 J *	0.32 J *	0.55 J *
Vanadium	mg/kg	18.6 =	12.4 J	22.3 J	7.9 J	7.2 J
Zinc	mg/kg	70 = *	87.2 J *	63.4 J *	70.3 J *	53.6 J
Total Organic Carbon	mg/kg					

Table 4-31. Results for Surface Soil Samples – Inorganic Constituents and Total Organic Carbon (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-4/4A and CA-6/6A LL1-375 LL1131 LL1ss-375-1131-SO 09/28/2000 0 - 1 Field Duplicate	CB-4/4A and CA-6/6A LL1-375 LL1223 LL1ss-375-1223-SO 09/28/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-376 LL1255 LL1ss-376-1255-SO 09/28/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-377 LL1254 LL1ss-377-1254-SO 09/28/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-378 LL1253 LL1ss-378-1253-SO 09/28/2000 0 - 1 Grab
Cyanide	mg/kg	0.58 U	0.57 U			
Chromium, hexavalent	mg/kg					
Aluminum	mg/kg	8,170 =	8,740 =	10,900 =	10,700 =	14,700 =
Antimony	mg/kg	1.2 UJ	1.1 UJ	1.1 UJ	1.2 UJ	1.2 UJ
Arsenic	mg/kg	8.5 =	8.5 J	7 J	13.3 =	13 J
Barium	mg/kg	57.8 =	60.9 J	132 J *	62.1 =	79.1 J
Beryllium	mg/kg	0.32 J	0.35 J	1.6 J *	0.29 J	0.45 J
Cadmium	mg/kg	0.091 J *	0.083 J *	0.097 J *	0.078 J *	0.58 UJ
Calcium	mg/kg	1,030 =	974 =	55,300 = *	417 J	1,010 =
Chromium	mg/kg	11.4 =	11.3 J	5.5 J	13.7 =	18.1 J *
Cobalt	mg/kg	7.1 =	7.6 J	2.2 J	17.3 = *	9.4 J
Copper	mg/kg	11.7 =	11.3 J	5 J	13.3 =	15.2 J
Iron	mg/kg	17,300 =	17,300 =	8,940 =	22,200 =	24,800 = *
Lead	mg/kg	15.8 J	15.5 J	12.3 J	26.3 J *	24 J
Magnesium	mg/kg	1,240 =	1,440 J	9,610 J *	1,490 =	2,100 J
Manganese	mg/kg	618 =	641 =	1,230 =	1,030 =	569 =
Mercury	mg/kg	0.051 J *	0.033 J	0.11 U	0.073 J *	0.058 J *
Nickel	mg/kg	11.7 J	12.2 J	4.1 J	12.9 J	16.9 J
Potassium	mg/kg	623 J	689 J	827 J	629 J	1,110 J *
Selenium	mg/kg	0.62 =	0.8 J	0.45 J	1.2 =	0.65 J
Silver	mg/kg	1.2 U	1.1 U	1.1 U	1.2 U	1.2 U
Sodium	mg/kg	578 U	570 UJ	346 J *	606 U	582 UJ
Thallium	mg/kg	0.61 J *	0.42 J *	0.45 J *	0.73 = *	0.57 J *
Vanadium	mg/kg	16.9 =	18.3 J	4.8 J	23.8 =	32.4 J *
Zinc	mg/kg	58.9 =	52.2 J	17.7 J	64.3 = *	75 J *
Total Organic Carbon	mg/kg					

Table 4-31. Results for Surface Soil Samples – Inorganic Constituents and Total Organic Carbon (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-4/4A and CA-6/6A LL1-379 LL1221 LL1ss-379-1221-SO 09/28/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-380 LL1222 LL1ss-380-1222-SO 09/28/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-381 LL1252 LL1ss-381-1252-SO 09/28/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-382 LL1211 LL1ss-382-1211-SO 09/28/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-406 LL1249 LL1ss-406-1249-SO 10/01/2000 0 - 1 Grab
Cyanide	mg/kg	0.61 U	0.64 U		1.3 = *	
Chromium, hexavalent	mg/kg					
Aluminum	mg/kg	14,600 =	4,950 =	10,200 =	12,500 =	12,300 =
Antimony	mg/kg	1.2 UJ	1.3 UJ	1.2 UJ	1.2 UJ	1.2 UJ
Arsenic	mg/kg	10.7 =	7.9 =	11.3 J	10.5 =	9.7 J
Barium	mg/kg	63.8 =	39.8 =	63.8 J	60.5 =	79.4 =
Beryllium	mg/kg	0.27 J	0.36 J	0.43 J	0.35 J	0.57 J
Cadmium	mg/kg	0.61 U	0.17 J *	0.11 J *	0.59 U	0.59 UJ
Calcium	mg/kg	944 =	1,770 =	236 J	1,470 =	511 J
Chromium	mg/kg	18.9 = *	9.8 =	13 J	16.3 =	15 J
Cobalt	mg/kg	10.3 =	5.8 J	26.9 J *	9 =	10.1 J
Copper	mg/kg	9.7 =	11.3 =	12.8 J	18 = *	11.5 J
Iron	mg/kg	22,300 =	11,700 =	21,500 =	21,900 =	19,200 =
Lead	mg/kg	72.4 J *	21.5 J	22.8 J	19.3 J	18.1 J
Magnesium	mg/kg	1,860 =	992 =	1,420 J	2,720 =	1,540 =
Manganese	mg/kg	599 =	296 =	2,020 = *	282 =	700 =
Mercury	mg/kg	0.041 J *	0.052 J *	0.032 J	0.036 J	0.056 J *
Nickel	mg/kg	13.9 J	13.4 J	14.2 J	20.7 J	13.5 J
Potassium	mg/kg	928 J *	866 J	791 J	1,440 J *	762 =
Selenium	mg/kg	0.49 J	0.47 J	0.61 UJ	0.85 =	0.59 UJ
Silver	mg/kg	1.2 U	1.3 U	1.2 U	1.2 U	1.2 U
Sodium	mg/kg	611 U	636 U	608 UJ	588 U	592 U
Thallium	mg/kg	0.65 = *	0.46 J *	0.49 J *	0.61 J *	0.43 J *
Vanadium	mg/kg	33 = *	10.4 =	20.5 J	20.4 =	24.6 =
Zinc	mg/kg	59.8 =	59.7 =	59.6 J	68.7 = *	49.6 J
Total Organic Carbon	mg/kg					

Table 4-31. Results for Surface Soil Samples – Inorganic Constituents and Total Organic Carbon (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-4/4A and CA-6/6A LL1-406 LL1280 LL1ss-406-1280-SO 10/01/2000 0 - 1 Field Duplicate	CB-4/4A and CA-6/6A LL1-407 LL1248 LL1ss-407-1248-SO 10/01/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-417 LL1347 LL1ss-417-1347-SO 10/03/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-418 LL1346 LL1ss-418-1346-SO 10/03/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-419 LL1348 LL1ss-419-1348-SO 10/03/2000 0 - 1 Grab
Cyanide	mg/kg					
Chromium, hexavalent	mg/kg					
Aluminum	mg/kg	11,200 =	10,900 =	6,790 =	16,400 =	15,500 =
Antimony	mg/kg	0.66 J	1.2 UJ	1.1 UJ	1.2 UJ	1.2 UJ
Arsenic	mg/kg	10.7 J	10.5 J	8 =	12.4 =	9.2 =
Barium	mg/kg	77.1 =	67.9 =	58.9 =	106 = *	130 = *
Beryllium	mg/kg	0.44 J	0.4 J	0.37 J	0.61 =	0.54 J
Cadmium	mg/kg	0.8 J *	0.38 J *	0.48 J *	0.13 J *	0.13 J *
Calcium	mg/kg	4,910 J	3,750 J	1,560 J	1,450 J	262 J
Chromium	mg/kg	15.1 J	15 J	10.1 =	37 = *	14.9 =
Cobalt	mg/kg	6.9 J	5.8 J	5.9 =	14.8 = *	15.5 = *
Copper	mg/kg	11.8 J	11.8 J	11.3 =	14.2 =	10.6 =
Iron	mg/kg	2,2900 =	20,800 =	12,500 =	24,300 = *	19,300 =
Lead	mg/kg	24.9 J	20.7 J	27.8 = *	29.4 = *	23.1 =
Magnesium	mg/kg	1,970 =	1,940 =	934 =	2,040 =	1,780 =
Manganese	mg/kg	587 =	436 =	798 =	1,250 =	1,020 =
Mercury	mg/kg	0.063 J *	0.059 J *	0.19 = *	0.12 = *	0.17 = *
Nickel	mg/kg	15.1 J	14.1 J	13.8 =	27.1 = *	16.6 =
Potassium	mg/kg	1,120 = *	1,030 = *	733 =	1,510 = *	713 =
Selenium	mg/kg	0.53 J	0.46 J	0.57 U	0.51 J	0.82 =
Silver	mg/kg	1.3 U	1.2 U	1.1 U	1.2 U	1.2 U
Sodium	mg/kg	626 U	605 U	572 U	595 U	581 U
Thallium	mg/kg	0.46 J *	0.48 J *	0.33 J *	0.49 J *	0.52 J *
Vanadium	mg/kg	22.5 =	20.7 =	13 =	32.5 = *	26.2 =
Zinc	mg/kg	66.1 J *	66.3 J *	87.6 = *	76.2 = *	69.4 = *
Total Organic Carbon	mg/kg					

Table 4-31. Results for Surface Soil Samples – Inorganic Constituents and Total Organic Carbon (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-13 and CB-10 LL1-034 LL10766 LL1ss-034-0766-SO 09/27/2000 0 - 1 Grab	CB-13 and CB-10 LL1-035 LL10769 LL1ss-035-0769-SO 09/27/2000 0 - 1 Grab	CB-13 and CB-10 LL1-037 LL10771 LL1ss-037-0771-SO 09/27/2000 0 - 1 Grab	CB-13 and CB-10 LL1-068 LL10748 LL1ss-068-0748-SO 09/26/2000 0 - 1 Grab	CB-13 and CB-10 LL1-105 LL10750 LL1ss-105-0750-SO 09/26/2000 0 - 1 Grab
Cyanide	mg/kg	0.55 U	0.53 U	0.59 U	0.61 U	
Chromium, hexavalent	mg/kg				1.2 UJ	1.1 UJ
Aluminum	mg/kg	6,430 =	5,990 =	5,450 =	21,500 J *	7,080 J
Antimony	mg/kg	0.99 J *	1.1 UJ	0.59 J	1.2 J *	0.82 J
Arsenic	mg/kg	8.6 =	14.5 =	9.6 =	8.8 =	10.2 =
Barium	mg/kg	46.2 =	46.4 =	35.9 =	192 J *	57.2 J
Beryllium	mg/kg	0.37 J	0.23 U	0.18 U	2 J *	0.36 UJ
Cadmium	mg/kg	1.6 = *	0.85 = *	1.6 = *	2.7 = *	0.53 J *
Calcium	mg/kg	2,310 =	1,530 =	989 =	63,000 = *	12,600 =
Chromium	mg/kg	12.6 =	10.8 =	13.1 J	21 = *	12.3 =
Cobalt	mg/kg	5.8 =	6.2 =	4.8 J	7.4 =	7.3 =
Copper	mg/kg	56 = *	25.4 = *	34.3 = *	63.2 J *	28.5 J *
Iron	mg/kg	13,300 =	15,200 =	13,300 =	25,800 J *	27,500 J *
Lead	mg/kg	60.2 = *	73.2 = *	86.3 = *	24.4 J	60.3 J *
Magnesium	mg/kg	1,110 =	1,400 =	1,780 =	9,160 J *	2,870 J
Manganese	mg/kg	475 =	365 =	226 =	2,170 J *	616 J
Mercury	mg/kg	0.069 J *	0.019 J	0.027 J	0.031 J	0.013 J
Nickel	mg/kg	12.4 =	13.5 =	13 =	15.6 J	19.4 J
Potassium	mg/kg	902 =	805 =	586 =	3,610 = *	2,020 = *
Selenium	mg/kg	0.39 J	0.43 J	0.59 U	2.3 J *	1.9 UJ
Silver	mg/kg	1.1 U	1.1 U	1.2 U	1.2 U	1.1 U
Sodium	mg/kg	64.8 J	532 U	586 U	340 J *	1,440 = *
Thallium	mg/kg	0.37 J *	0.4 J *	0.41 J *	0.44 J *	0.31 J *
Vanadium	mg/kg	14.3 =	11.9 =	10 =	19.8 J	12.6 J
Zinc	mg/kg	119 J *	109 J *	159 = *	195 J *	75.6 J *
Total Organic Carbon	mg/kg					

Table 4-31. Results for Surface Soil Samples – Inorganic Constituents and Total Organic Carbon (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-13 and CB-10 LL1-106 LL10751 LL1ss-106-0751-SO 09/26/2000 0 - 1 Grab	CB-13 and CB-10 LL1-107 LL10752 LL1ss-107-0752-SO 09/26/2000 0 - 1 Grab	CB-13 and CB-10 LL1-108 LL10753 LL1ss-108-0753-SO 09/26/2000 0 - 1 Grab	CB-13 and CB-10 LL1-108 LL1120 LL1ss-108-1120-SO 09/26/2000 0 - 1 Field Duplicate	CB-13 and CB-10 LL1-109 LL10755 LL1ss-109-0755-SO 09/26/2000 0 - 1 Grab
Cyanide	mg/kg			0.77 J *	0.58 U	
Chromium, hexavalent	mg/kg	1.3 UJ	1.3 UJ	1.2 R	1.2 UJ	5.6 UJ
Aluminum	mg/kg	12,600 J	12,500 J	16,100 J	12,300 J	7,980 =
Antimony	mg/kg	0.76 J	4.6 J *	1.2 UJ	0.86 J	9.1 J *
Arsenic	mg/kg	11.6 =	14.8 =	8.5 =	10 =	17.7 = *
Barium	mg/kg	109 J *	292 J *	143 J *	89.5 J *	212 = *
Beryllium	mg/kg	0.5 J	0.58 J	1.5 J *	0.9 J *	0.28 U
Cadmium	mg/kg	0.64 U	48.2 = *	0.23 J *	0.19 J *	17.4 = *
Calcium	mg/kg	11,100 =	11,500 =	49,200 = *	23,100 = *	6,570 J
Chromium	mg/kg	17.9 = *	84.2 = *	15.9 =	13.6 =	312 = *
Cobalt	mg/kg	7.7 =	11.8 = *	6.5 =	8.7 =	10.6 J *
Copper	mg/kg	21.4 J *	434 J *	26.3 J *	17.7 J	570 = *
Iron	mg/kg	21,900 J	28,300 J *	14,700 J	18,300 J	33,500 = *
Lead	mg/kg	92.6 J *	825 J *	20.5 J	27.9 J *	1,770 J *
Magnesium	mg/kg	3,370 J *	2,950 J	8,580 J *	4,880 J *	10,200 J *
Manganese	mg/kg	681 J	637 J	1,430 J	838 J	328 =
Mercury	mg/kg	0.038 J *	0.38 = *	0.032 J	0.017 J	0.41 = *
Nickel	mg/kg	15.8 J	28.9 J *	14.7 J	16.6 J	62.4 = *
Potassium	mg/kg	1,030 = *	1,180 = *	2,220 = *	1,710 = *	1,090 J *
Selenium	mg/kg	2.4 J *	2.7 J *	1.6 UJ	1.7 UJ	3.6 = *
Silver	mg/kg	1.3 U	1.3 U	1.2 U	1.2 U	2.4 U
Sodium	mg/kg	83.6 J	147 J *	373 J *	137 J *	361 U
Thallium	mg/kg	0.52 J *	0.49 J *	0.4 J *	0.41 J *	0.75 J *
Vanadium	mg/kg	21.8 J	20.6 J	12.8 J	16.1 J	19.3 =
Zinc	mg/kg	167 J *	1,130 J *	81.2 J *	99.8 J *	2,060 = *
Total Organic Carbon	mg/kg					

Table 4-31. Results for Surface Soil Samples – Inorganic Constituents and Total Organic Carbon (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-13 and CB-10 LL1-110 LL10756 LL1ss-110-0756-SO 09/26/2000 0 - 1 Grab	CB-13 and CB-10 LL1-111 LL10757 LL1ss-111-0757-SO 09/26/2000 0 - 1 Grab	CB-13 and CB-10 LL1-112 LL10758 LL1ss-112-0758-SO 09/26/2000 0 - 1 Grab	CB-13 and CB-10 LL1-113 LL10759 LL1ss-113-0759-SO 09/26/2000 0 - 1 Grab	CB-13 and CB-10 LL1-114 LL10760 LL1ss-114-0760-SO 09/26/2000 0 - 1 Grab
Cyanide	mg/kg		0.92 = *		1 = *	
Chromium, hexavalent	mg/kg	1.2 UJ	1.2 UJ	1.2 UJ	1.2 UJ	1.2 UJ
Aluminum	mg/kg	23,200 = *	21,800 = *	25,700 = *	21,300 = *	7,020 =
Antimony	mg/kg	0.91 J	1.9 J *	0.76 J	1.2 UJ	1.2 UJ
Arsenic	mg/kg	6.3 =	4.5 =	5.8 =	3.1 =	7.9 =
Barium	mg/kg	237 = *	322 = *	327 = *	251 = *	46.3 =
Beryllium	mg/kg	3.3 = *	2.6 = *	3.4 = *	3.1 = *	0.27 U
Cadmium	mg/kg	1.7 = *	14 = *	4.5 = *	1.3 = *	0.19 J *
Calcium	mg/kg	141,000 J *	133,000 J *	153,000 J *	136,000 J *	36,100 J *
Chromium	mg/kg	22.3 = *	30.9 = *	32.6 = *	11.9 =	10.8 =
Cobalt	mg/kg	6.4 =	5 =	5.4 J	12.5 = *	7.2 =
Copper	mg/kg	47.3 = *	306 = *	2,390 = *	9 =	12.3 =
Iron	mg/kg	24,900 = *	17,500 =	23,000 =	5,770 =	15,700 =
Lead	mg/kg	68.7 J *	224 J *	248 J *	38.1 J *	16.3 J
Magnesium	mg/kg	18,200 J *	16,800 J *	17,400 J *	16,400 J *	2,050 J
Manganese	mg/kg	1,700 = *	2,530 = *	2,610 = *	3,080 = *	1,120 =
Mercury	mg/kg	0.19 = *	0.14 = *	0.25 = *	0.024 J	0.061 J *
Nickel	mg/kg	14 =	10.6 =	17.7 =	4.6 J	14.3 =
Potassium	mg/kg	2,010 = *	1,630 = *	1,930 = *	1,370 = *	677 =
Selenium	mg/kg	0.44 J	0.62 U	0.61 U	0.62 =	0.59 U
Silver	mg/kg	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Sodium	mg/kg	704 = *	784 = *	742 = *	733 = *	78.8 U
Thallium	mg/kg	0.57 J *	0.42 J *	0.46 J *	0.4 J *	0.37 J *
Vanadium	mg/kg	15.9 =	8.6 =	13.4 =	5.8 J	12.2 =
Zinc	mg/kg	425 = *	2,000 = *	672 = *	672 = *	178 = *
Total Organic Carbon	mg/kg					

Table 4-31. Results for Surface Soil Samples – Inorganic Constituents and Total Organic Carbon (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-13 and CB-10 LL1-115 LL10761 LL1ss-115-0761-SO 09/26/2000 0 - 1 Grab	CB-13 and CB-10 LL1-116 LL10762 LL1ss-116-0762-SO 09/26/2000 0 - 1 Grab	CB-13 and CB-10 LL1-117 LL10763 LL1ss-117-0763-SO 09/27/2000 0 - 1 Grab	CB-13 and CB-10 LL1-118 LL10764 LL1ss-118-0764-SO 09/27/2000 0 - 1 Grab	CB-13 and CB-10 LL1-119 LL10765 LL1ss-119-0765-SO 09/27/2000 0 - 1 Grab
Cyanide	mg/kg	0.61 U			0.67 = *	
Chromium, hexavalent	mg/kg	1.2 UJ	1.1 UJ			
Aluminum	mg/kg	4,180 =	3,400 =	25,800 = *	24,500 = *	20,700 = *
Antimony	mg/kg	1.2 UJ	1.1 UJ	1.1 UJ	1.1 UJ	2.2 UJ
Arsenic	mg/kg	11.6 =	10.4 =	4 =	4.1 =	6.1 =
Barium	mg/kg	24.7 =	34.5 =	302 = *	410 = *	209 = *
Beryllium	mg/kg	0.18 U	0.23 U	2.6 = *	2.4 = *	3.2 = *
Cadmium	mg/kg	0.18 J *	0.54 U	0.062 J *	0.1 J *	0.099 J *
Calcium	mg/kg	5,720 J	8,680 J	160,000 J *	162,000 J *	150,000 J *
Chromium	mg/kg	5.6 =	5.2 =	16.9 =	12.1 =	22.1 = *
Cobalt	mg/kg	4.1 J	5.3 J	2.9 J	3.1 J	2.2 J
Copper	mg/kg	14 =	8.8 =	5.5 =	8 =	5.3 =
Iron	mg/kg	13,300 =	15,700 =	11,600 =	7,070 =	5,190 =
Lead	mg/kg	65.7 J *	12.4 J	10.4 J	11.2 J	14.2 J
Magnesium	mg/kg	2,980 J	811 J	20,200 = *	17,300 = *	20,100 = *
Manganese	mg/kg	318 =	458 =	3,650 = *	3,340 = *	2,640 = *
Mercury	mg/kg	0.019 J	0.02 J	0.016 J	0.018 J	0.11 U
Nickel	mg/kg	9.6 =	10.2 =	4.9 =	3.9 J	3.3 J
Potassium	mg/kg	451 J	425 J	1,740 = *	1,830 = *	2,160 = *
Selenium	mg/kg	0.61 U	0.54 U	0.71 U	0.62 U	0.76 U
Silver	mg/kg	1.2 U	1.1 U	1.1 U	1.1 U	2.2 U
Sodium	mg/kg	609 U	545 U	604 = *	771 = *	1,220 = *
Thallium	mg/kg	0.28 J *	0.31 J *	0.36 J *	0.34 J *	0.24 J *
Vanadium	mg/kg	7.5 =	6.5 =	12.4 =	10.3 =	6.7 J
Zinc	mg/kg	342 = *	49.7 =	21.9 J	28 J	20 J
Total Organic Carbon	mg/kg					

Table 4-31. Results for Surface Soil Samples – Inorganic Constituents and Total Organic Carbon (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-13 and CB-10 LL1-120 LL10773 LL1ss-120-0773-SO 09/27/2000 0 - 1 Grab	CB-13 and CB-10 LL1-121 LL1104 LL1ss-121-1104-SO 09/27/2000 0 - 1 Grab	CB-13 and CB-10 LL1-122 LL10774 LL1ss-122-0774-SO 09/27/2000 0 - 1 Grab	CB-13 and CB-10 LL1-123 LL10775 LL1ss-123-0775-SO 09/27/2000 0 - 1 Grab	CB-13 and CB-10 LL1-124 LL10776 LL1ss-124-0776-SO 09/27/2000 0 - 1 Grab
Cyanide	mg/kg	0.55 U			0.57 U	
Chromium, hexavalent	mg/kg					
Aluminum	mg/kg	4,670 =	6,880 =	9,120 =	5,420 =	5,080 =
Antimony	mg/kg	0.88 J	1.1 UJ	0.71 J	1.1 UJ	1.7 J *
Arsenic	mg/kg	6.7 =	8.4 =	14 =	9.7 =	9.4 =
Barium	mg/kg	54.8 =	144 = *	61.4 =	47.1 =	93.2 = *
Beryllium	mg/kg	0.24 U	0.44 J	0.36 U	0.27 U	0.44 J
Cadmium	mg/kg	0.46 J *	2.7 = *	0.39 J *	1.2 = *	5.3 = *
Calcium	mg/kg	2,110 J	5,470 J	1,720 J	1,360 J	3,150 =
Chromium	mg/kg	10.6 =	11.6 =	13.9 =	10.6 =	22.6 = *
Cobalt	mg/kg	4.7 J	5.8 =	9.3 =	6.3 =	5.5 J
Copper	mg/kg	63.1 = *	29.8 = *	20.9 = *	92.2 = *	271 = *
Iron	mg/kg	13,900 =	13,700 =	27,300 = *	16,600 =	22,900 =
Lead	mg/kg	45.3 J *	197 J *	123 J *	180 J *	230 = *
Magnesium	mg/kg	1,030 =	2,430 =	1,990 =	1,480 =	1,420 =
Manganese	mg/kg	302 =	542 =	549 =	400 =	602 =
Mercury	mg/kg	0.017 J	0.063 J *	0.046 J *	0.04 J *	0.13 = *
Nickel	mg/kg	12.3 =	16.2 =	17.9 =	15.4 =	16.9 =
Potassium	mg/kg	651 =	698 =	1,100 = *	624 =	547 J
Selenium	mg/kg	0.55 U	0.49 U	0.58 U	0.65 U	0.6 =
Silver	mg/kg	1.1 U	1.1 U	1.2 U	1.1 U	1.2 U
Sodium	mg/kg	553 U	68.3 U	579 U	568 U	85.9 J
Thallium	mg/kg	0.28 J *	0.44 U	0.52 J *	0.38 J *	0.47 J *
Vanadium	mg/kg	9.7 =	11.2 =	17.6 =	11.1 =	12.3 =
Zinc	mg/kg	107 J *	367 J *	116 J *	202 J *	610 J *
Total Organic Carbon	mg/kg					

Table 4-31. Results for Surface Soil Samples – Inorganic Constituents and Total Organic Carbon (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-13 and CB-10 LL1-125 LL10777 LL1ss-125-0777-SO 09/27/2000 0 - 1 Grab	CB-13 and CB-10 LL1-125 LL1122 LL1ss-125-1122-SO 09/27/2000 0 - 1 Field Duplicate	CB-13 and CB-10 LL1-126 LL10779 LL1ss-126-0779-SO 09/27/2000 0 - 1 Grab	CB-13 and CB-10 LL1-127 LL10780 LL1ss-127-0780-SO 09/27/2000 0 - 1 Grab	CB-13 and CB-10 LL1-128 LL10781 LL1ss-128-0781-SO 09/27/2000 0 - 1 Grab
Cyanide	mg/kg	0.58 U	0.59 U	0.57 U		
Chromium, hexavalent	mg/kg	1.2 UJ	1.2 UJ			
Aluminum	mg/kg	12,000 =	11,500 =	15,800 =	9,650 =	8,590 =
Antimony	mg/kg	1.2 UJ	1.2 UJ	1.1 UJ	1.3 UJ	1.5 UJ
Arsenic	mg/kg	9.1 =	8.5 =	6.7 =	12.8 =	12.5 =
Barium	mg/kg	88.5 = *	84.8 =	152 = *	110 = *	111 = *
Beryllium	mg/kg	0.43 J	0.38 J	1.3 = *	0.63 U	0.12 U
Cadmium	mg/kg	0.17 U	0.15 U	1.4 = *	8.2 = *	18.6 = *
Calcium	mg/kg	345 J	219 U	46,500 = *	4,710 =	4,500 =
Chromium	mg/kg	13.8 =	12.9 =	16 =	80.7 = *	47.1 = *
Cobalt	mg/kg	16 = *	16 = *	5.3 J	11 = *	13.9 = *
Copper	mg/kg	9 =	8.5 =	32.4 = *	256 = *	96.2 = *
Iron	mg/kg	17,000 =	16,300 =	13,200 =	26,000 = *	20,900 =
Lead	mg/kg	21.3 =	20.7 =	175 = *	1,390 = *	495 = *
Magnesium	mg/kg	1,590 =	1,450 =	8,080 = *	8,110 = *	5,090 = *
Manganese	mg/kg	906 =	971 =	1,640 = *	682 =	755 =
Mercury	mg/kg	0.061 J *	0.041 J *	0.047 J *	0.11 J *	0.11 J *
Nickel	mg/kg	13.5 =	12.8 =	10 =	61.6 = *	37.8 = *
Potassium	mg/kg	639 =	591 =	1,310 = *	609 J	709 J
Selenium	mg/kg	0.87 =	0.37 J	0.6 =	0.95 =	0.73 U
Silver	mg/kg	1.2 U	1.2 U	1.1 U	0.21 J *	1.5 U
Sodium	mg/kg	581 U	586 U	220 J *	630 U	102 J
Thallium	mg/kg	0.55 J *	0.54 J *	0.46 J *	0.66 J *	0.78 J *
Vanadium	mg/kg	22.8 =	22.1 =	13.3 =	18.5 =	15.5 =
Zinc	mg/kg	60.7 J	51 J	283 J *	1,960 = *	897 J *
Total Organic Carbon	mg/kg					

Table 4-31. Results for Surface Soil Samples – Inorganic Constituents and Total Organic Carbon (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-13 and CB-10 LL1-129 LL10782 LL1ss-129-0782-SO 09/27/2000 0 - 1 Grab	CB-13 and CB-10 LL1-129 LL1116 LL1ss-129-1116-SO 09/27/2000 0 - 1 Field Duplicate	CB-13 and CB-10 LL1-130 LL10783 LL1ss-130-0783-SO 09/27/2000 0 - 1 Grab	CB-13 and CB-10 LL1-130 LL1121 LL1ss-130-1121-SO 09/27/2000 0 - 1 Field Duplicate	CB-13 and CB-10 LL1-131 LL10784 LL1ss-131-0784-SO 09/28/2000 0 - 1 Grab
Cyanide	mg/kg			0.62 U	0.6 U	
Chromium, hexavalent	mg/kg	1.3 UJ	1.2 UJ	1.2 UJ	1.2 UJ	
Aluminum	mg/kg	5,500 =	6,770 =	5,400 =	5,910 =	4,660 =
Antimony	mg/kg	1.3 UJ	1.2 UJ	1.2 UJ	1.2 UJ	1.1 UJ
Arsenic	mg/kg	14.4 =	16 = *	7.4 =	8.1 =	6.6 =
Barium	mg/kg	55.4 =	130 = *	51.1 =	54.7 =	23.6 =
Beryllium	mg/kg	0.11 U	0.077 U	0.092 U	0.12 U	0.47 U
Cadmium	mg/kg	9 = *	7.4 = *	5.4 = *	5.8 = *	0.18 J *
Calcium	mg/kg	3,250 =	2,860 =	12,600 =	13,300 =	673 J
Chromium	mg/kg	53.4 = *	67.2 = *	13.5 =	15.1 =	12.8 =
Cobalt	mg/kg	13.4 = *	11.2 = *	4.9 J	4.7 J	9.2 =
Copper	mg/kg	96.2 = *	106 = *	37.9 = *	41.5 = *	7.8 =
Iron	mg/kg	58,000 = *	35,000 = *	14,000 =	13,500 =	36,000 = *
Lead	mg/kg	967 = *	927 = *	201 = *	224 = *	11.3 =
Magnesium	mg/kg	3,590 = *	4,240 = *	3,620 = *	4,300 = *	795 =
Manganese	mg/kg	620 =	568 =	646 =	484 =	1,080 =
Mercury	mg/kg	0.078 J *	0.05 J *	0.051 J *	0.048 J *	0.012 J
Nickel	mg/kg	34.2 = *	40.4 = *	20.6 =	21.9 = *	31.4 = *
Potassium	mg/kg	490 J	704 =	402 J	475 J	934 = *
Selenium	mg/kg	0.63 J	1.1 =	0.46 J	0.73 =	0.56 U
Silver	mg/kg	0.23 J *	0.22 J *	1.2 U	1.2 U	1.1 U
Sodium	mg/kg	226 J *	98.6 J	66.3 J	598 U	561 U
Thallium	mg/kg	0.57 J *	0.64 J *	0.47 J *	0.51 J *	0.4 J *
Vanadium	mg/kg	12.7 =	13.5 =	10.5 =	9.3 =	11.2 =
Zinc	mg/kg	1,200 = *	1,520 = *	644 J *	598 J *	33 J
Total Organic Carbon	mg/kg					

Table 4-31. Results for Surface Soil Samples – Inorganic Constituents and Total Organic Carbon (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-13 and CB-10 LL1-132 LL10785 LL1ss-132-0785-SO 09/28/2000 0 - 1 Grab	CB-13 and CB-10 LL1-133 LL10786 LL1ss-133-0786-SO 09/28/2000 0 - 1 Grab	CB-13 and CB-10 LL1-134 LL10787 LL1ss-134-0787-SO 09/28/2000 0 - 1 Grab	CB-13 and CB-10 LL1-200 LL10910 LL1ss-200-0910-SO 09/28/2000 0 - 1 Grab	CB-13 and CB-10 LL1-221 LL10934 LL1ss-221-0934-SO 09/26/2000 0 - 1 Grab
Cyanide	mg/kg			0.65 U	0.61 U	0.55 U
Chromium, hexavalent	mg/kg					1.1 UJ
Aluminum	mg/kg	9,480 =	11,400 =	7,160 =	12,800 =	6,400 J
Antimony	mg/kg	1.2 UJ	1.3 UJ	1.3 UJ	1.2 UJ	0.55 J
Arsenic	mg/kg	13.9 =	11.6 =	9.1 =	12 =	12.6 =
Barium	mg/kg	85.1 =	100 = *	87.7 =	87.1 =	33.8 J
Beryllium	mg/kg	0.62 J	0.53 U	0.4 U	0.5 J	0.19 UJ
Cadmium	mg/kg	1.9 = *	1.1 = *	3.2 = *	0.08 J *	0.55 U
Calcium	mg/kg	2,860 J	1,980 J	2,210 =	602 J	1,630 =
Chromium	mg/kg	16.7 =	15.6 =	16.1 =	16.1 =	8.4 =
Cobalt	mg/kg	8.6 =	12.8 = *	7.7 =	12 = *	7.8 =
Copper	mg/kg	31.7 = *	18.7 = *	68.8 = *	15.3 =	20.1 J *
Iron	mg/kg	16,500 =	20,200 =	22,400 =	23,100 =	17,300 J
Lead	mg/kg	79.9 = *	144 = *	234 = *	28.5 J *	13.3 J
Magnesium	mg/kg	2,360 =	2,030 =	1,880 =	2,190 =	1,800 J
Manganese	mg/kg	427 =	1,390 =	1,180 =	1,040 =	424 J
Mercury	mg/kg	0.14 = *	0.075 J *	0.066 J *	0.068 J *	0.015 J
Nickel	mg/kg	20.2 =	20 =	20.1 =	18.5 J	15 J
Potassium	mg/kg	1,610 = *	797 =	705 =	1,020 J *	812 =
Selenium	mg/kg	0.61 U	0.64 U	0.65 U	0.96 =	1.4 UJ
Silver	mg/kg	1.2 U	1.3 U	1.3 U	1.2 U	1.1 U
Sodium	mg/kg	63.4 J	642 U	653 U	607 U	62.6 J
Thallium	mg/kg	0.58 J *	0.59 J *	0.52 J *	0.77 = *	0.34 J *
Vanadium	mg/kg	16 =	22.6 =	15.9 =	23.3 =	11.8 J
Zinc	mg/kg	168 J *	153 J *	409 J *	67.7 = *	64.9 J *
Total Organic Carbon	mg/kg					

Table 4-31. Results for Surface Soil Samples – Inorganic Constituents and Total Organic Carbon (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-13 and CB-10 LL1-222 LL10936 LL1ss-222-0936-SO 09/26/2000 0 - 1 Grab	CB-13 and CB-10 LL1-223 LL10938 LL1ss-223-0938-SO 09/26/2000 0 - 1 Grab	CB-13 and CB-10 LL1-224 LL10939 LL1ss-224-0939-SO 09/19/2000 0 - 1 Grab	CB-13 and CB-10 LL1-225 LL10940 LL1ss-225-0940-SO 09/19/2000 0 - 1 Grab	CB-13 and CB-10 LL1-226 LL10942 LL1ss-226-0942-SO 09/19/2000 0 - 1 Grab
Cyanide	mg/kg	0.55 U	0.57 U		0.53 U	0.53 U
Chromium, hexavalent	mg/kg	1.1 UJ	1.1 UJ	1.1 UJ	1.1 UJ	1.1 UJ
Aluminum	mg/kg	8,170 J	7,870 J	6,560 =	4,740 =	6,380 =
Antimony	mg/kg	0.69 J	1.1 UJ	1.1 UJ	1.1 UJ	1.1 UJ
Arsenic	mg/kg	14.2 =	12 =	11.1 =	9.4 =	10.5 =
Barium	mg/kg	39.2 J	35.7 J	33.1 =	24.2 =	41.2 =
Beryllium	mg/kg	0.26 UJ	0.27 UJ	0.21 U	0.16 U	0.25 U
Cadmium	mg/kg	0.55 U	0.57 U	0.55 U	0.53 U	0.53 U
Calcium	mg/kg	1,520 =	3,710 =	1,640 J	3,420 J	2,400 J
Chromium	mg/kg	10.2 =	11 =	8.2 =	6.4 =	8.6 =
Cobalt	mg/kg	10.4 =	8.4 =	11 = *	5.1 J	6.5 =
Copper	mg/kg	22.2 J *	19.7 J *	19.4 = *	18.1 = *	16.6 =
Iron	mg/kg	20,600 J	19,500 J	16,500 =	13,500 =	16,200 =
Lead	mg/kg	17.3 J	12.1 J	11.5 J	9.8 J	9.4 J
Magnesium	mg/kg	2,240 J	2,890 J	1,840 =	2,350 =	2,040 =
Manganese	mg/kg	398 J	342 J	323 =	287 =	262 =
Mercury	mg/kg	0.018 J	0.11 U	0.013 J	0.11 U	0.11 U
Nickel	mg/kg	18.6 J	20.3 J	14.9 =	12.4 =	14.9 =
Potassium	mg/kg	863 =	1,390 = *	792 J	708 J	1,160 J *
Selenium	mg/kg	1.9 UJ	1.5 UJ	0.55 U	0.53 U	0.53 U
Silver	mg/kg	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Sodium	mg/kg	554 U	568 U	69.2 U	83.5 U	104 U
Thallium	mg/kg	0.41 J *	0.4 J *	0.39 J *	0.45 J *	0.48 J *
Vanadium	mg/kg	12.9 J	12.8 J	11.1 =	8.5 =	10.8 =
Zinc	mg/kg	73.7 J *	57.1 J	63.7 J *	53.7 J	98.5 J *
Total Organic Carbon	mg/kg					

Table 4-31. Results for Surface Soil Samples – Inorganic Constituents and Total Organic Carbon (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-13 and CB-10 LL1-367 LL1257 LL1ss-367-1257-SO 09/28/2000 0 - 1 Grab	CB-13 and CB-10 LL1-368 LL1128 LL1ss-368-1128-SO 09/28/2000 0 - 1 Field Duplicate	CB-13 and CB-10 LL1-368 LL1258 LL1ss-368-1258-SO 09/28/2000 0 - 1 Grab	CB-13 and CB-10 LL1-369 LL1212 LL1ss-369-1212-SO 09/28/2000 0 - 1 Grab	CB-13 and CB-10 LL1-370 LL1219 LL1ss-370-1219-SO 09/28/2000 0 - 1 Grab
Cyanide	mg/kg				0.62 U	0.57 U
Chromium, hexavalent	mg/kg					
Aluminum	mg/kg	12,600 =	16,100 =	17,900 = *	10,300 =	9,850 =
Antimony	mg/kg	1.2 UJ	1.2 UJ	1.2 UJ	1.2 UJ	1.1 UJ
Arsenic	mg/kg	9.5 =	14.5 =	14.7 =	10.3 =	10.1 =
Barium	mg/kg	85 =	80.3 =	86.5 =	63 =	73.9 =
Beryllium	mg/kg	0.49 J	0.59 U	0.66 J	0.43 J	0.55 U
Cadmium	mg/kg	0.22 J *	0.14 J *	0.098 U	0.47 J *	0.46 J *
Calcium	mg/kg	4,950 =	304 J	238 J	1,990 =	2,100 J
Chromium	mg/kg	15.4 =	18.5 = *	19 = *	15.7 =	14.1 =
Cobalt	mg/kg	8.1 =	19.4 = *	32 = *	7.3 =	12.2 = *
Copper	mg/kg	11.9 =	10.9 =	12.1 =	17.5 =	13.7 =
Iron	mg/kg	18,500 =	25,400 = *	26,500 = *	16,100 =	21,800 =
Lead	mg/kg	19.7 =	23.1 =	26.2 = *	47.8 = *	25.6 =
Magnesium	mg/kg	2,230 =	1,770 =	1,950 =	1,610 =	1,990 =
Manganese	mg/kg	657 =	1,250 =	1,740 = *	551 =	1,140 =
Mercury	mg/kg	0.021 J	0.064 J *	0.062 J *	0.068 J *	0.075 J *
Nickel	mg/kg	15.7 =	14.5 =	16.3 =	14.7 =	22.6 = *
Potassium	mg/kg	1,210 = *	900 =	1,000 = *	1,230 = *	1,250 = *
Selenium	mg/kg	0.59 U	0.62 U	0.61 U	0.69 =	0.57 U
Silver	mg/kg	1.2 U	1.2 U	1.2 U	1.2 U	1.1 U
Sodium	mg/kg	71.4 J	616 U	613 U	621 U	314 J *
Thallium	mg/kg	0.51 J *	0.59 J *	0.55 J *	0.51 J *	0.54 J *
Vanadium	mg/kg	21.8 =	36.6 = *	38.2 = *	19.8 =	19.7 =
Zinc	mg/kg	63.3 J *	58.9 J	61.6 J	80.5 J *	82.4 J *
Total Organic Carbon	mg/kg					

Table 4-31. Results for Surface Soil Samples – Inorganic Constituents and Total Organic Carbon (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-13 and CB-10 LL1-371 LL1220 LL1ss-371-1220-SO 09/28/2000 0 - 1 Grab	CB-13 and CB-10 LL1-372 LL1256 LL1ss-372-1256-SO 09/28/2000 0 - 0 Grab	CB-13 and CB-10 LL1-413 LL1323 LL1ss-413-1323-SO 09/30/2000 0 - 1 Grab	CB-13 and CB-10 LL1-414 LL1334 LL1ss-414-1334-SO 10/02/2000 0 - 1 Grab	CB-13 and CB-10 LL1-415 LL1335 LL1ss-415-1335-SO 10/02/2000 0 - 1 Grab
Cyanide	mg/kg	0.55 U				
Chromium, hexavalent	mg/kg					
Aluminum	mg/kg	8,980 =	7,730 =	14,600 =	14,600 =	13,000 =
Antimony	mg/kg	0.64 J	1.1 UJ	1.2 UJ	1.2 UJ	1.2 UJ
Arsenic	mg/kg	7.2 =	11.3 =	17.7 = *	18.3 = *	12.1 =
Barium	mg/kg	71.6 =	60.7 =	69.8 =	58.2 =	82.1 =
Beryllium	mg/kg	0.61 =	0.35 U	0.49 J	0.61 =	0.61 =
Cadmium	mg/kg	0.55 = *	0.61 = *	0.2 J *	0.58 U	0.07 J *
Calcium	mg/kg	22,000 = *	4,880 =	1,280 =	217 J	707 =
Chromium	mg/kg	9.8 =	10.2 =	18.6 = *	20.1 = *	15.9 =
Cobalt	mg/kg	5 J	9.5 =	11 = *	12.7 = *	19.9 = *
Copper	mg/kg	15.2 =	20.9 = *	26.2 = *	24.3 = *	10.4 =
Iron	mg/kg	9,590 =	17,000 =	27,200 = *	33,700 = *	24,500 = *
Lead	mg/kg	23.8 =	24.6 =	20.3 =	15 =	23.4 =
Magnesium	mg/kg	3,960 = *	1,710 =	3,190 = *	3,840 = *	1,690 =
Manganese	mg/kg	1,010 =	1,010 =	529 =	234 =	1,760 = *
Mercury	mg/kg	0.064 J *	0.034 J	0.042 J *	0.024 J	0.017 J
Nickel	mg/kg	8 =	13.6 =	25 = *	29.7 = *	12.7 =
Potassium	mg/kg	1,110 = *	1,170 = *	1,710 = *	1,380 = *	667 =
Selenium	mg/kg	0.55 U	0.57 U	0.98 =	0.85 =	0.83 =
Silver	mg/kg	1.1 U	1.1 U	1.2 U	1.2 U	1.2 U
Sodium	mg/kg	227 J *	306 J *	65.6 J	578 U	602 U
Thallium	mg/kg	0.43 J *	0.41 J *	0.55 J *	0.64 U	0.6 U
Vanadium	mg/kg	10.6 =	15.6 =	25.3 =	22.6 =	29.7 =
Zinc	mg/kg	61.1 J	57.3 J	89 = *	72.3 = *	52.2 =
Total Organic Carbon	mg/kg					

Table 4-31. Results for Surface Soil Samples – Inorganic Constituents and Total Organic Carbon (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-14, CB-17, and CB-15 LL1-038 LL10735 LL1ss-038-0735-SO 09/20/2000 0 - 1 Grab	CB-14, CB-17, and CB-15 LL1-086 LL10722 LL1ss-086-0722-SO 09/25/2000 0 - 1 Grab	CB-14, CB-17, and CB-15 LL1-087 LL10723 LL1ss-087-0723-SO 09/25/2000 0 - 1 Grab	CB-14, CB-17, and CB-15 LL1-088 LL10724 LL1ss-088-0724-SO 09/25/2000 0 - 1 Grab	CB-14, CB-17, and CB-15 LL1-088 LL1117 LL1ss-088-1117-SO 09/25/2000 0 - 1 Field Duplicate
Cyanide	mg/kg		0.52 U			
Chromium, hexavalent	mg/kg		1 UJ	1.2 UJ	1.1 UJ	1.1 UJ
Aluminum	mg/kg		6,100 =	7,220 =	6,920 =	6,890 =
Antimony	mg/kg		1 UJ	1.2 UJ	1.1 UJ	1.1 UJ
Arsenic	mg/kg		7.5 =	9.4 =	12.4 =	11.6 =
Barium	mg/kg		37.2 =	184 = *	33.9 =	29 =
Beryllium	mg/kg		0.26 J	0.31 J	0.29 J	0.22 U
Cadmium	mg/kg		0.52 U	11.6 = *	0.56 U	0.55 U
Calcium	mg/kg		3,890 =	10,900 =	3,330 =	904 =
Chromium	mg/kg		9.5 =	30.3 = *	8.4 =	8.7 =
Cobalt	mg/kg		6.5 =	7.1 =	5.8 =	6.2 =
Copper	mg/kg		9.6 =	148 = *	17.3 =	17.6 =
Iron	mg/kg		18,100 =	30,300 = *	16,100 =	15,800 =
Lead	mg/kg		16.7 =	602 = *	12.9 =	13.1 =
Magnesium	mg/kg		1,420 =	2,250 =	1,900 =	1,740 =
Manganese	mg/kg		708 =	739 =	401 =	405 =
Mercury	mg/kg		0.018 J	0.12 = *	0.02 J	0.022 J
Nickel	mg/kg		11.7 =	24.5 = *	13.9 =	14.3 =
Potassium	mg/kg		772 =	825 =	587 =	714 =
Selenium	mg/kg		0.73 U	1.8 U	0.75 U	0.65 U
Silver	mg/kg		1 U	0.21 J *	1.1 U	1.1 U
Sodium	mg/kg		258 J *	619 U	555 U	553 UJ
Thallium	mg/kg		0.34 J *	0.49 J *	0.34 J *	0.41 J *
Vanadium	mg/kg		13.3 =	14.4 =	11.1 =	12.7 =
Zinc	mg/kg		72.4 = *	881 = *	58.3 =	57.6 =
Total Organic Carbon	mg/kg	2,600 =				

Table 4-31. Results for Surface Soil Samples – Inorganic Constituents and Total Organic Carbon (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-14, CB-17, and CB-15 LL1-089 LL10726 LL1ss-089-0726-SO 09/25/2000 0 - 1 Grab	CB-14, CB-17, and CB-15 LL1-090 LL10727 LL1ss-090-0727-SO 09/25/2000 0 - 1 Grab	CB-14, CB-17, and CB-15 LL1-091 LL10728 LL1ss-091-0728-SO 09/25/2000 0 - 1 Grab	CB-14, CB-17, and CB-15 LL1-092 LL10730 LL1ss-092-0730-SO 09/25/2000 0 - 1 Grab	CB-14, CB-17, and CB-15 LL1-093 LL10731 LL1ss-093-0731-SO 09/25/2000 0 - 1 Grab
Cyanide	mg/kg		0.6 U	2.4 = *		0.54 U
Chromium, hexavalent	mg/kg	1.1 UJ	1.2 UJ	1.1 UJ	1.2 UJ	1.1 UJ
Aluminum	mg/kg	6,980 =	13,700 =	19,700 = *	14,500 =	8,540 =
Antimony	mg/kg	1.1 UJ	1.2 UJ	1.1 UJ	1.2 UJ	1.1 UJ
Arsenic	mg/kg	11.2 =	14.6 =	4.5 =	10 =	10.9 =
Barium	mg/kg	30.6 =	79.5 =	235 = *	167 = *	42.9 =
Beryllium	mg/kg	0.24 J	0.54 J	3.2 = *	1.5 = *	0.29 J
Cadmium	mg/kg	0.56 U	0.6 U	8.5 = *	2.3 = *	0.54 U
Calcium	mg/kg	767 =	4,920 =	133,000 J *	62,700 = *	2,960 =
Chromium	mg/kg	8.9 =	17.8 = *	18.8 = *	36 = *	11.2 =
Cobalt	mg/kg	6.1 =	8.9 =	2.6 J	5.8 J	7.4 =
Copper	mg/kg	18.6 = *	21.8 = *	22.6 = *	67.8 = *	15 =
Iron	mg/kg	17,200 =	26,500 = *	9,990 =	33,900 = *	18,300 =
Lead	mg/kg	12.8 =	22.5 =	209 = *	99.5 = *	16.3 =
Magnesium	mg/kg	1,630 =	3,350 = *	23,100 = *	9,480 = *	2,050 =
Manganese	mg/kg	327 =	376 =	1,790 = *	2,360 = *	508 =
Mercury	mg/kg	0.026 J	0.034 J	0.027 J	0.19 = *	0.024 J
Nickel	mg/kg	14.8 =	22.1 = *	7.3 =	22.5 = *	15.3 =
Potassium	mg/kg	675 =	1,590 = *	1,290 = *	1,190 = *	1,200 = *
Selenium	mg/kg	0.72 U	0.85 U	2.1 U	0.61 U	0.58 U
Silver	mg/kg	1.1 U	1.2 U	0.2 J *	0.21 J *	1.1 U
Sodium	mg/kg	559 UJ	601 UJ	508 J *	438 J *	540 UJ
Thallium	mg/kg	0.36 J *	0.49 J *	0.49 J *	0.49 J *	0.43 J *
Vanadium	mg/kg	12.6 =	23.6 =	8.6 =	12.1 =	15.7 =
Zinc	mg/kg	59.7 =	84.3 = *	309 = *	191 = *	59.5 =
Total Organic Carbon	mg/kg					

Table 4-31. Results for Surface Soil Samples – Inorganic Constituents and Total Organic Carbon (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-14, CB-17, and CB-15 LL1-094 LL10732 LL1ss-094-0732-SO 09/25/2000 0 - 1 Grab	CB-14, CB-17, and CB-15 LL1-095 LL10734 LL1ss-095-0734-SO 09/25/2000 0 - 1 Grab	CB-14, CB-17, and CB-15 LL1-096 LL10737 LL1ss-096-0737-SO 09/26/2000 0 - 1 Grab	CB-14, CB-17, and CB-15 LL1-097 LL10738 LL1ss-097-0738-SO 09/26/2000 0 - 1 Grab	CB-14, CB-17, and CB-15 LL1-098 LL10739 LL1ss-098-0739-SO 09/26/2000 0 - 1 Grab
Cyanide	mg/kg	0.58 U	4.5 U			0.58 U
Chromium, hexavalent	mg/kg	1.2 UJ	9 UJ	1.2 UJ	1.1 UJ	1.2 UJ
Aluminum	mg/kg	8,910 =	97,300 = *	14,300 =	14,300 =	15,500 =
Antimony	mg/kg	1.2 UJ	9 UJ	1.2 UJ	1.1 UJ	0.64 J
Arsenic	mg/kg	11.2 =	112 = *	12.6 =	12.9 =	14.6 =
Barium	mg/kg	52.4 =	572 = *	77.7 =	87.3 =	79.7 =
Beryllium	mg/kg	0.33 J	3.3 J *	0.49 J	0.55 J	0.55 J
Cadmium	mg/kg	0.58 U	1.2 J *	0.61 U	0.56 U	0.58 U
Calcium	mg/kg	1,620 =	43,600 = *	1,030 J	1,540 J	413 J
Chromium	mg/kg	11.7 =	128 = *	18.6 = *	18 = *	19.5 = *
Cobalt	mg/kg	7.4 =	72.3 = *	8.1 =	9.7 =	9.8 =
Copper	mg/kg	18.3 = *	199 = *	20.3 = *	17.9 = *	19.5 = *
Iron	mg/kg	22,600 =	198,000 = *	27,200 = *	25,900 = *	29,700 = *
Lead	mg/kg	37 = *	186 = *	27.1 J *	16.4 J	14.1 J
Magnesium	mg/kg	1,790 =	21,100 = *	2,400 J	2,910 J	2,980 J
Manganese	mg/kg	498 =	4,700 = *	215 =	330 =	253 =
Mercury	mg/kg	0.024 J	0.37 J *	0.029 J	0.028 J	0.027 J
Nickel	mg/kg	15.6 =	160 = *	17.4 =	20.4 =	21.6 = *
Potassium	mg/kg	838 =	11,600 = *	1,150 = *	1,390 = *	1,540 = *
Selenium	mg/kg	0.64 U	3.8 U	0.61 U	0.56 U	0.58 U
Silver	mg/kg	1.2 U	9 U	1.2 U	1.1 U	1.2 U
Sodium	mg/kg	579 UJ	1,630 J *	69.3 U	146 U	68.5 U
Thallium	mg/kg	0.49 J *	4.6 = *	0.55 J *	0.49 J *	0.54 J *
Vanadium	mg/kg	17.4 =	179 = *	25.2 =	24.8 =	25.6 =
Zinc	mg/kg	78 = *	744 = *	82.2 = *	71.3 = *	61.6 =
Total Organic Carbon	mg/kg					

Table 4-31. Results for Surface Soil Samples – Inorganic Constituents and Total Organic Carbon (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-14, CB-17, and CB-15 LL1-099 LL10740 LL1ss-099-0740-SO 09/26/2000 0 - 1 Grab	CB-14, CB-17, and CB-15 LL1-099 LL1118 LL1ss-099-1118-SO 09/26/2000 0 - 1 Field Duplicate	CB-14, CB-17, and CB-15 LL1-100 LL10741 LL1ss-100-0741-SO 09/20/2000 0 - 1 Grab	CB-14, CB-17, and CB-15 LL1-101 LL10743 LL1ss-101-0743-SO 09/20/2000 0 - 1 Grab	CB-14, CB-17, and CB-15 LL1-102 LL10744 LL1ss-102-0744-SO 09/19/2000 0 - 1 Grab
Cyanide	mg/kg				0.55 U	
Chromium, hexavalent	mg/kg	1.1 UJ	1.1 UJ	1.2 UJ	1.1 UJ	1.1 UJ
Aluminum	mg/kg	11,800 =	16,000 =	9,970 =	10,300 =	9,280 =
Antimony	mg/kg	1.1 UJ	0.63 J	1.2 UJ	1.1 UJ	1.1 UJ
Arsenic	mg/kg	14 =	15.5 = *	11.8 =	10.5 =	11.2 =
Barium	mg/kg	67.5 =	110 = *	73.6 =	61.4 =	52.5 =
Beryllium	mg/kg	0.46 J	0.65 =	0.49 J	0.47 J	0.32 J
Cadmium	mg/kg	0.05 J *	0.076 J *	0.59 U	0.55 U	0.54 U
Calcium	mg/kg	857 J	872 J	2,990 J	11,900 J	2,620 J
Chromium	mg/kg	16.1 =	19.6 = *	13 =	12.6 =	12.4 =
Cobalt	mg/kg	9.5 =	40.6 = *	11.3 = *	8.3 =	8.1 =
Copper	mg/kg	21.7 = *	21.7 = *	17.1 =	15.5 =	70.3 = *
Iron	mg/kg	27,200 = *	30,100 = *	20,400 =	18,900 =	21,300 =
Lead	mg/kg	15.5 J	25.3 J	35.6 J *	29.9 J *	25.8 J
Magnesium	mg/kg	3,020 J	3,290 J *	1,930 =	2,760 =	2,660 =
Manganese	mg/kg	447 =	3,400 = *	847 =	581 =	402 =
Mercury	mg/kg	0.08 J *	0.049 J *	0.068 J *	0.026 J	0.02 J
Nickel	mg/kg	20.4 =	22 = *	15.8 =	15.4 =	17.9 =
Potassium	mg/kg	776 =	1,420 = *	770 J	1,340 J *	1,020 J *
Selenium	mg/kg	0.56 U	0.57 U	0.59 U	0.55 U	0.54 U
Silver	mg/kg	1.1 U	1.1 U	1.2 U	1.1 U	1.1 U
Sodium	mg/kg	218 U	244 U	73.5 U	120 U	67.9 U
Thallium	mg/kg	0.5 J *	0.58 = *	0.5 J *	0.48 J *	0.39 J *
Vanadium	mg/kg	21.5 =	31.2 = *	20.8 =	18.3 =	16.4 =
Zinc	mg/kg	66 = *	75.5 = *	103 J *	69.9 J *	86.2 J *
Total Organic Carbon	mg/kg					

Table 4-31. Results for Surface Soil Samples – Inorganic Constituents and Total Organic Carbon (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-14, CB-17, and CB-15 LL1-103 LL10745 LL1ss-103-0745-SO 09/19/2000 0 - 1 Grab	CB-14, CB-17, and CB-15 LL1-104 LL10747 LL1ss-104-0747-SO 09/19/2000 0 - 1 Grab	CB-14, CB-17, and CB-15 LL1-373 LL1321 LL1ss-373-1321-SO 09/30/2000 0 - 1 Grab	CB-14, CB-17, and CB-15 LL1-374 LL1322 LL1ss-374-1322-SO 09/30/2000 0 - 1 Grab	CB-14, CB-17, and CB-15 LL1-401 LL1218 LL1ss-401-1218-SO 09/28/2000 0 - 1 Grab
Cyanide	mg/kg			0.59 U		0.57 U
Chromium, hexavalent	mg/kg	1.1 UJ	1.1 UJ			
Aluminum	mg/kg	9,440 =	9,080 =	8,050 =	13,300 =	8,550 =
Antimony	mg/kg	0.55 J	1.1 UJ	1.2 UJ	1.2 UJ	1.1 UJ
Arsenic	mg/kg	10.7 =	11.8 =	8.9 =	10.8 =	8.2 J
Barium	mg/kg	53.9 =	60.4 =	67.4 =	73 =	97.7 J *
Beryllium	mg/kg	0.35 J	0.34 J	0.52 J	0.41 J	0.55 J
Cadmium	mg/kg	0.53 U	0.55 U	0.52 J *	0.08 J *	0.19 J *
Calcium	mg/kg	5,200 J	11,300 J	15,900 = *	2,140 =	45,400 = *
Chromium	mg/kg	14.1 =	13 =	10.9 =	16.1 =	8.5 J
Cobalt	mg/kg	8.3 =	8.5 =	5.7 J	7.2 =	5.9 J
Copper	mg/kg	25 = *	31.8 = *	13.2 =	14.8 =	8 J
Iron	mg/kg	22,600 =	28,000 = *	14,100 =	21,000 =	9,800 =
Lead	mg/kg	76.2 = *	142 J *	47.6 = *	17.9 =	16.4 J
Magnesium	mg/kg	2,170 =	2,610 =	2,590 =	2,310 =	4,560 J *
Manganese	mg/kg	432 =	430 =	612 =	507 =	1,830 = *
Mercury	mg/kg	0.018 J	0.032 J	0.038 J *	0.032 J	0.025 J
Nickel	mg/kg	17.7 J	18.5 =	12.9 =	16.6 =	10.3 J
Potassium	mg/kg	1,270 = *	1,480 J *	919 =	1,120 = *	954 J *
Selenium	mg/kg	0.53 U	0.55 U	0.55 J	0.63 =	0.75 J
Silver	mg/kg	1.1 U	1.1 U	1.2 U	1.2 U	1.1 U
Sodium	mg/kg	57.4 U	491 J *	114 J	63.1 J	158 UJ
Thallium	mg/kg	0.65 J *	0.45 J *	0.51 J *	0.55 J *	0.5 J *
Vanadium	mg/kg	16.6 =	16.6 =	13 =	23.8 =	11.1 J
Zinc	mg/kg	89.6 = *	110 J *	111 = *	61 =	39.2 J
Total Organic Carbon	mg/kg					

Table 4-31. Results for Surface Soil Samples – Inorganic Constituents and Total Organic Carbon (continued)

Location		CB-14, CB-17, and CB-15	CB-14, CB-17, and CB-15	CB-14, CB-17, and CB-15	CB-14, CB-17, and CB-15	CD-3/CB-801
Station		LL1-402	LL1-403	LL1-404	LL1-405	LL1-027
Sample ID		LL1318	LL1319	LL1320	LL1217	LL10882
Customer ID		LL1ss-402-1318-SO	LL1ss-403-1319-SO	LL1ss-404-1320-SO	LL1ss-405-1217-SO	LL1ss-027-0882-SO
Date		09/30/2000	09/30/2000	09/30/2000	09/30/2000	09/17/2000
Depth (ft)		0 - 1	0 - 1	0 - 1	0 - 1	0 - 1
Field Type		Grab	Grab	Grab	Grab	Grab
Analyte	Units					
Cyanide	mg/kg				0.64 U	0.58 U
Chromium, hexavalent	mg/kg					
Aluminum	mg/kg	10,500 =	9,800 =	11,300 =	12,100 =	5,110 =
Antimony	mg/kg	1.2 UJ	1.2 UJ	1.2 UJ	1.3 UJ	1.2 UJ
Arsenic	mg/kg	11.5 =	9.8 =	10.5 J	9.2 =	8.7 =
Barium	mg/kg	62.2 =	70.8 =	76.6 =	84 =	33.2 =
Beryllium	mg/kg	0.39 U	0.44 J	0.51 J	0.48 J	0.22 U
Cadmium	mg/kg	0.44 J *	0.48 J *	0.6 UJ	0.9 = *	0.85 = *
Calcium	mg/kg	1,900 =	1,920 =	712 J	2,110 =	1,290 J
Chromium	mg/kg	14.7 =	17.9 = *	14.6 J	16.9 =	10.3 =
Cobalt	mg/kg	8.6 =	9.7 =	10.2 J	10.3 =	4.9 J
Copper	mg/kg	30.4 = *	15.7 =	10.5 J	26.8 = *	19 = *
Iron	mg/kg	21,500 =	17,900 =	22,500 =	19,300 =	14,400 =
Lead	mg/kg	50.1 = *	27.3 = *	15.6 J	55.9 = *	76.3 = *
Magnesium	mg/kg	1,650 =	1,450 =	1,710 =	2,100 =	1,330 =
Manganese	mg/kg	565 =	1,110 =	951 =	522 =	339 =
Mercury	mg/kg	0.037 J *	0.056 J *	0.036 J	0.064 J *	0.12 U
Nickel	mg/kg	15.1 =	17.4 =	15.6 J	19.3 =	12.5 =
Potassium	mg/kg	957 = *	989 = *	1,030 = *	1,050 = *	755 =
Selenium	mg/kg	1.1 =	0.84 =	0.6 UJ	1 =	0.39 J
Silver	mg/kg	1.2 U	1.2 U	1.2 U	1.3 U	1.2 U
Sodium	mg/kg	78.2 J	594 U	599 U	65.9 J	581 U
Thallium	mg/kg	0.43 J *	0.63 J *	0.37 J *	0.57 J *	0.5 J *
Vanadium	mg/kg	22.7 =	18.8 =	24.3 =	23.8 =	11.1 =
Zinc	mg/kg	114 = *	91.9 = *	61.2 J	157 = *	218 = *
Total Organic Carbon	mg/kg					

Table 4-31. Results for Surface Soil Samples – Inorganic Constituents and Total Organic Carbon (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CD-3/CB-801 LL1-179 LL10884 LL1ss-179-0884-SO 09/17/2000 0 - 1 Grab	CD-3/CB-801 LL1-180 LL10885 LL1ss-180-0885-SO 09/17/2000 0 - 1 Grab	CD-3/CB-801 LL1-181 LL10886 LL1ss-181-0886-SO 09/17/2000 0 - 1 Grab	CD-3/CB-801 LL1-182 LL10888 LL1ss-182-0888-SO 09/17/2000 0 - 1 Grab	CD-3/CB-801 LL1-183 LL10889 LL1ss-183-0889-SO 09/17/2000 0 - 1 Grab
Cyanide	mg/kg	0.59 U		0.59 U		
Chromium, hexavalent	mg/kg					
Aluminum	mg/kg	9,820 =	4,120 =	7,600 =	10,700 =	9,960 =
Antimony	mg/kg	1.2 UJ	1.1 UJ	1.2 UJ	1.2 UJ	1.1 UJ
Arsenic	mg/kg	5.3 =	6.9 =	16.9 = *	12.9 =	15.7 = *
Barium	mg/kg	82.9 =	20.5 J	47.6 =	44.9 =	44.4 =
Beryllium	mg/kg	1.4 J *	0.2 U	0.36 U	0.32 U	0.34 U
Cadmium	mg/kg	0.25 J *	0.56 U	1.2 = *	0.074 J *	2.8 = *
Calcium	mg/kg	39,800 J *	695 J	2,950 J	1,230 J	2,280 J
Chromium	mg/kg	6.8 =	6.8 =	13.5 =	14.6 =	13.5 =
Cobalt	mg/kg	3.4 J	4.8 J	8.3 =	7.8 =	8.7 =
Copper	mg/kg	9.3 =	9.6 =	23.5 = *	27.4 = *	25.4 = *
Iron	mg/kg	8,830 =	16,100 =	21,300 =	21,200 =	22,000 =
Lead	mg/kg	47.1 = *	24.9 =	104 = *	45.2 = *	59.2 = *
Magnesium	mg/kg	7,400 = *	1,320 =	2,000 =	2,340 =	2,190 =
Manganese	mg/kg	712 =	424 =	525 =	315 =	376 =
Mercury	mg/kg	0.049 J *	0.016 J	0.027 J	0.017 J	0.031 J
Nickel	mg/kg	7.8 =	11.8 =	19.7 =	19.3 =	18.5 =
Potassium	mg/kg	1,070 = *	568 =	846 =	963 = *	941 = *
Selenium	mg/kg	0.44 J	0.56 U	0.86 =	0.93 =	0.57 U
Silver	mg/kg	1.2 U	1.1 U	1.2 U	1.2 U	1.1 U
Sodium	mg/kg	204 U	560 U	585 U	575 U	570 U
Thallium	mg/kg	0.53 J *	0.64 J *	0.61 J *	0.72 J *	0.8 J *
Vanadium	mg/kg	10.8 =	7.8 =	16.3 =	19.7 =	18 =
Zinc	mg/kg	75.9 = *	72.1 = *	197 = *	113 = *	169 = *
Total Organic Carbon	mg/kg					

Table 4-31. Results for Surface Soil Samples – Inorganic Constituents and Total Organic Carbon (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CD-3/CB-801 LL1-184 LL10890 LL1ss-184-0890-SO 09/18/2000 0 - 1 Grab	CD-3/CB-801 LL1-185 LL10891 LL1ss-185-0891-SO 09/18/2000 0 - 1 Grab	CD-3/CB-801 LL1-186 LL10893 LL1ss-186-0893-SO 09/17/2000 0 - 1 Grab	CD-3/CB-801 LL1-186 LL1110 LL1ss-186-1110-SO 09/17/2000 0 - 1 Field Duplicate	CD-3/CB-801 LL1-187 LL10894 LL1ss-187-0894-SO 09/17/2000 0 - 1 Grab
Cyanide	mg/kg		0.59 U			
Chromium, hexavalent	mg/kg	1.4 J	1.2 UJ			
Aluminum	mg/kg	4,470 =	6,330 =	7,440 =	7,340 =	8,010 =
Antimony	mg/kg	648 J *	429 J *	0.71 J	0.64 J	1.1 UJ
Arsenic	mg/kg	12.5 =	8.2 =	12.9 =	11.7 =	19 = *
Barium	mg/kg	297 = *	212 = *	93.7 = *	60.6 =	79.3 =
Beryllium	mg/kg	0.33 J	0.57 J	0.29 U	0.31 U	0.24 U
Cadmium	mg/kg	7.4 = *	4.3 = *	27.3 = *	0.68 = *	2.8 = *
Calcium	mg/kg	8,920 J	23,000 = *	11,000 J	16,900 J *	7,500 J
Chromium	mg/kg	174 = *	69.3 = *	12.6 =	13.3 =	30.1 = *
Cobalt	mg/kg	10.3 =	6.4 =	6.8 =	6.6 =	10.7 = *
Copper	mg/kg	57.3 = *	81.2 = *	24.2 = *	23.9 = *	73.4 = *
Iron	mg/kg	31,200 = *	22,300 =	21,600 =	18,500 =	51,100 = *
Lead	mg/kg	1,620 = *	736 = *	132 = *	113 = *	262 = *
Magnesium	mg/kg	1870 =	3,160 = *	2,220 =	4,840 = *	7,130 = *
Manganese	mg/kg	617 =	901 =	416 =	411 =	533 =
Mercury	mg/kg	0.079 J *	0.078 J *	0.031 J	0.032 J	0.046 J *
Nickel	mg/kg	17.6 J	19.5 J	16.3 =	21.7 = *	60.5 = *
Potassium	mg/kg	974 = *	1,130 = *	882 =	1,010 = *	963 = *
Selenium	mg/kg	1 =	0.5 J	1 =	0.93 =	1.8 = *
Silver	mg/kg	0.32 J *	0.46 J *	1.2 U	1.2 U	1.1 U
Sodium	mg/kg	226 U	210 U	63.5 U	67.1 U	67.6 U
Thallium	mg/kg	0.78 J *	0.71 J *	0.5 J *	0.58 J *	0.59 J *
Vanadium	mg/kg	8.9 =	8.2 =	16.7 =	16.7 =	19.8 =
Zinc	mg/kg	674 = *	420 = *	144 = *	123 = *	437 = *
Total Organic Carbon	mg/kg					

Table 4-31. Results for Surface Soil Samples – Inorganic Constituents and Total Organic Carbon (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CD-3/CB-801 LL1-205 LL10915 LL1ss-205-0915-SO 09/27/2000 0 - 1 Grab	CD-3/CB-801 LL1-383 LL1239 LL1ss-383-1239-SO 09/28/2000 0 - 1 Grab	CD-3/CB-801 LL1-384 LL1236 LL1ss-384-1236-SO 09/28/2000 0 - 1 Grab	CD-3/CB-801 LL1-385 LL1237 LL1ss-385-1237-SO 09/28/2000 0 - 1 Grab	CD-3/CB-801 LL1-385 LL1278 LL1ss-385-1278-SO 09/28/2000 0 - 1 Field Duplicate
Cyanide	mg/kg	0.55 U				
Chromium, hexavalent	mg/kg					
Aluminum	mg/kg	23,200 = *	9,450 =	7,750 =	8,030 =	8,030 =
Antimony	mg/kg	1.4 J *	1.1 UJ	1.1 UJ	1.1 UJ	1.1 UJ
Arsenic	mg/kg	8 =	12.1 =	11.7 =	15.2 =	13.1 =
Barium	mg/kg	347 = *	40.4 =	59 =	48.2 =	43 =
Beryllium	mg/kg	1.5 = *	0.31 U	0.41 U	0.37 U	0.35 U
Cadmium	mg/kg	0.4 J *	0.18 J *	0.5 J *	0.2 J *	0.21 J *
Calcium	mg/kg	108,000 = *	300 J	7,500 J	1,100 J	951 J
Chromium	mg/kg	16.5 J	12.1 =	12 =	10.5 =	10.9 =
Cobalt	mg/kg	6.6 J	8.4 =	6.3 =	8.7 =	7.6 =
Copper	mg/kg	5.9 =	19.5 J *	19.6 = *	23.7 = *	24.1 J *
Iron	mg/kg	12,000 =	20,000 =	18,100 =	18,800 =	19,700 =
Lead	mg/kg	38.5 = *	24.7 =	52.7 = *	21.8 =	18 =
Magnesium	mg/kg	17,000 = *	1,740 =	2,420 =	1,670 =	1,760 =
Manganese	mg/kg	4,070 = *	542 =	603 =	709 =	576 =
Mercury	mg/kg	0.016 J	0.031 J	0.061 J *	0.13 = *	0.17 = *
Nickel	mg/kg	14.5 =	16.4 =	16.4 =	16.8 =	16.2 =
Potassium	mg/kg	1,790 = *	630 =	925 =	742 =	765 =
Selenium	mg/kg	1.1 U	0.57 U	0.56 U	0.57 U	0.8 =
Silver	mg/kg	2.2 U	1.1 U	1.1 U	1.1 U	1.1 U
Sodium	mg/kg	926 J *	574 U	69.5 J	575 U	542 U
Thallium	mg/kg	0.48 J *	0.52 J *	0.44 J *	0.48 J *	0.51 J *
Vanadium	mg/kg	12.2 =	18.3 =	14.5 =	14.9 =	15.2 =
Zinc	mg/kg	132 = *	76.9 J *	102 J *	87.6 J *	85.1 J *
Total Organic Carbon	mg/kg					

Table 4-31. Results for Surface Soil Samples – Inorganic Constituents and Total Organic Carbon (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CD-3/CB-801 LL1-386 LL1224 LL1ss-386-1224-SO 09/28/2000 0 - 1 Grab	CD-3/CB-801 LL1-387 LL1251 LL1ss-387-1251-SO 09/29/2000 0 - 1 Grab	CD-3/CB-801 LL1-388 LL1306 LL1ss-388-1306-SO 09/29/2000 0 - 1 Grab	CD-3/CB-801 LL1-389 LL1307 LL1ss-389-1307-SO 09/29/2000 0 - 1 Grab	CD-3/CB-801 LL1-390 LL1308 LL1ss-390-1308-SO 09/29/2000 0 - 1 Grab
Cyanide	mg/kg	0.58 U				0.58 U
Chromium, hexavalent	mg/kg					
Aluminum	mg/kg	5,880 =	7,560 =	11,500 =	15,300 =	14,400 =
Antimony	mg/kg	16.2 J *	2.6 J *	1.2 UJ	0.99 J *	1.2 UJ
Arsenic	mg/kg	9.1 =	15.1 J	10.2 =	8.8 =	15 =
Barium	mg/kg	65 =	84.3 J	94.4 J *	137 J *	61.1 J
Beryllium	mg/kg	0.34 U	0.39 J	0.79 =	1.4 = *	0.51 J
Cadmium	mg/kg	3.6 = *	0.83 J *	1 J *	1.1 J *	0.58 UJ
Calcium	mg/kg	2,810 J	1,270 =	26,600 J *	68,700 J *	2,880 J
Chromium	mg/kg	39.9 = *	42.2 J *	21.9 J *	17.4 J	20.1 J *
Cobalt	mg/kg	8.2 =	10.9 J *	8 =	6.9 =	8.2 =
Copper	mg/kg	41.1 J *	21.9 J *	191 J *	68.7 J *	19.9 J *
Iron	mg/kg	22,000 =	17,700 =	19,600 =	17,000 =	27,600 = *
Lead	mg/kg	550 = *	639 J *	143 = *	115 = *	16 =
Magnesium	mg/kg	2,120 =	1,300 J	3,940 = *	7,140 = *	2,370 =
Manganese	mg/kg	506 =	785 =	787 =	1,250 =	362 =
Mercury	mg/kg	0.2 = *	0.022 J	0.14 = *	0.42 = *	0.048 U
Nickel	mg/kg	21.2 = *	16 J	21.9 J *	18.8 J	18.4 J
Potassium	mg/kg	686 =	872 J	1,390 = *	1,710 = *	1,650 = *
Selenium	mg/kg	0.65 =	0.63 J	0.62 U	0.6 U	0.58 U
Silver	mg/kg	1.2 U	1.1 U	1.2 U	0.21 J *	1.2 U
Sodium	mg/kg	78.4 J	66.6 UJ	110 J	193 J *	581 U
Thallium	mg/kg	0.49 J *	0.55 J *	0.58 J *	0.45 J *	0.55 J *
Vanadium	mg/kg	12.5 =	17.4 J	18.3 =	16.9 =	26.1 =
Zinc	mg/kg	402 J *	138 J *	212 = *	206 = *	73.5 = *
Total Organic Carbon	mg/kg					

Table 4-31. Results for Surface Soil Samples – Inorganic Constituents and Total Organic Carbon (continued)

Location		CD-3/CB-801	CD-3/CB-801	CD-3/CB-801	CD-3/CB-801	Change Houses (CB-12, -23, -8, -22)
Station		LL1-408	LL1-409	LL1-410	LL1-413	CB08-01
Sample ID		LL1325	LL1209	LL1228	LL1323	LL0722
Customer ID		LL1ss-408-1325-SO	LL1ss-409-1209-SO	LL1ss-410-1228-SO	LL1ss-413-1323-SO	LL1ss-08-01-0722-SO
Date		10/01/2000	09/29/2000	09/29/2000	09/30/2000	11/04/1999
Depth (ft)		0 - 1	0 - 1	0 - 1	0 - 1	0 - 1
Field Type		Grab	Grab	Grab	Grab	Grab
Analyte	Units					
Cyanide	mg/kg		1 = *	0.58 = *		0.65 U
Chromium, hexavalent	mg/kg					
Aluminum	mg/kg	13,100 =	21,100 = *	4,340 =	14,600 =	4,400 J
Antimony	mg/kg	0.72 J	1.1 J *	2.1 J *	1.2 UJ	1.3 UJ
Arsenic	mg/kg	12.3 J	6.7 =	10.9 =	17.7 = *	9.9 =
Barium	mg/kg	98.2 = *	265 J *	98.6 J *	69.8 =	58.8 =
Beryllium	mg/kg	0.61 J	2.5 = *	0.56 =	0.49 J	0.37 U
Cadmium	mg/kg	0.79 J *	0.69 J *	0.83 J *	0.2 J *	1.3 = *
Calcium	mg/kg	7,140 J	125,000 J *	221,000 J *	1,280 =	1,970 =
Chromium	mg/kg	19.1 J *	16.9 J	81.4 J *	18.6 = *	9.4 =
Cobalt	mg/kg	9.8 J	4.1 J	6.6 =	11 = *	6.2 J
Copper	mg/kg	18.2 J *	36.6 J *	29.1 J *	26.2 = *	18.6 J *
Iron	mg/kg	22,200 =	13,700 =	90,000 = *	27,200 = *	13,300 =
Lead	mg/kg	66.9 J *	97.7 = *	510 = *	20.3 =	98.1 = *
Magnesium	mg/kg	2,300 =	13,200 = *	2,970 =	3,190 = *	771 =
Manganese	mg/kg	911 =	3,350 = *	1,100 =	529 =	1,250 =
Mercury	mg/kg	0.088 J *	0.21 = *	0.095 J *	0.042 J *	0.19 = *
Nickel	mg/kg	20 J	11.2 J	22.8 J *	25 = *	17.5 =
Potassium	mg/kg	1,420 = *	1,760 = *	932 = *	1,710 = *	576 J
Selenium	mg/kg	0.58 UJ	0.58 U	1.1 U	0.98 =	0.65 U
Silver	mg/kg	1.2 U	1.2 U	1.1 U	1.2 U	1.3 U
Sodium	mg/kg	584 U	497 J *	122 J	65.6 J	650 UJ
Thallium	mg/kg	0.43 J *	0.48 J *	0.49 J *	0.55 J *	0.23 U
Vanadium	mg/kg	27.4 =	14.3 =	9.7 J	25.3 =	9.1 =
Zinc	mg/kg	93.4 J *	93.1 = *	134 = *	89 = *	273 = *
Total Organic Carbon	mg/kg					

Table 4-31. Results for Surface Soil Samples – Inorganic Constituents and Total Organic Carbon (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	Change Houses (CB-12, -23, -8, -22) CB08-02 LL0723 LL1ss-08-02-0723-SO 11/04/1999 0 - 1 Grab	Change Houses (CB-12, -23, -8, -22) CB08-03 LL0724 LL1ss-08-03-0724-SO 11/04/1999 0 - 1 Grab	Change Houses (CB-12, -23, -8, -22) CB12-01 LL0725 LL1ss-12-01-0725-SO 11/04/1999 0 - 1 Grab	Change Houses (CB-12, -23, -8, -22) CB12-02 LL0726 LL1ss-12-02-0726-SO 11/04/1999 0 - 1 Grab	Change Houses (CB-12, -23, -8, -22) CB12-03 LL0727 LL1ss-12-03-0727-SO 11/04/1999 0 - 1 Grab
Cyanide	mg/kg	0.67 U	0.58 U	0.67 U	0.68 U	0.67 U
Chromium, hexavalent	mg/kg					
Aluminum	mg/kg	5,600 J	16,200 J	6,200 J	5,980 J	3,810 J
Antimony	mg/kg	1.3 UJ	1.2 UJ	1.3 UJ	1.4 UJ	1.3 UJ
Arsenic	mg/kg	10 =	2.5 =	8.3 =	9.8 =	6.3 =
Barium	mg/kg	43.4 =	183 = *	41.1 =	60.9 =	29 =
Beryllium	mg/kg	0.29 U	1.2 = *	0.25 U	0.19 U	0.24 U
Cadmium	mg/kg	0.56 J *	0.58 U	1 = *	6 = *	0.67 U
Calcium	mg/kg	2,670 =	179,000 = *	1,860 =	2,760 =	1,120 =
Chromium	mg/kg	13.4 =	7.1 =	10.4 =	26.5 = *	8.1 =
Cobalt	mg/kg	5.9 J	1.9 J	4.6 J	6 =	3.8 J
Copper	mg/kg	11.9 J	5.7 J	15.1 J	43.5 J *	10.6 J
Iron	mg/kg	12,500 =	3,190 =	17,300 =	28,500 = *	12,500 =
Lead	mg/kg	150 J *	31.4 J *	39.4 = *	532 = *	38.1 = *
Magnesium	mg/kg	954 =	11,800 = *	1,380 =	2,140 =	890 =
Manganese	mg/kg	723 =	2,040 = *	482 =	528 =	352 =
Mercury	mg/kg	0.083 R	0.04 R	0.078 U	0.29 = *	0.061 U
Nickel	mg/kg	11.4 =	3.5 J	12.9 =	19.2 =	9.8 =
Potassium	mg/kg	637 J	994 = *	992 = *	895 =	754 =
Selenium	mg/kg	0.67 U	0.77 =	0.67 U	0.68 U	0.67 U
Silver	mg/kg	1.3 U	1.2 U	1.3 U	1.4 U	1.3 U
Sodium	mg/kg	665 UJ	426 J *	669 UJ	683 UJ	669 UJ
Thallium	mg/kg	0.43 U	2.9 U	0.27 U	0.38 U	0.21 U
Vanadium	mg/kg	12 =	5.1 J	12.6 =	11.9 =	8.2 =
Zinc	mg/kg	290 = *	34.3 =	263 = *	1,590 = *	71.5 = *
Total Organic Carbon	mg/kg					

Table 4-31. Results for Surface Soil Samples – Inorganic Constituents and Total Organic Carbon (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	Change Houses (CB-12, -23, -8, -22) CB12-04 LL0728 LL1ss-12-04-0728-SO 11/04/1999 0 - 1 Grab	Change Houses (CB-12, -23, -8, -22) CB22-01 LL0729 LL1ss-22-01-0729-SO 11/04/1999 0 - 1 Grab	Change Houses (CB-12, -23, -8, -22) CB22-02 LL0730 LL1ss-22-02-0730-SO 11/04/1999 0 - 1 Grab	Change Houses (CB-12, -23, -8, -22) CB22-03 LL0731 LL1ss-22-03-0731-SO 11/04/1999 0 - 1 Grab	Change Houses (CB-12, -23, -8, -22) CB22-04 LL0732 LL1ss-22-04-0732-SO 11/04/1999 0 - 1 Grab
Cyanide	mg/kg	0.69 U	0.76 U	0.56 U	0.64 U	0.63 U
Chromium, hexavalent	mg/kg					
Aluminum	mg/kg	6,460 J	3,790 J	4,990 J	7,400 J	4,220 J
Antimony	mg/kg	0.9 J	1.5 UJ	1.1 UJ	1.3 UJ	12.9 J *
Arsenic	mg/kg	9.2 =	27.8 = *	11.6 =	10.8 =	9.3 =
Barium	mg/kg	61.1 =	18 J	30.7 =	52.7 =	38.5 =
Beryllium	mg/kg	0.28 U	0.44 U	0.18 U	0.45 U	0.31 U
Cadmium	mg/kg	11.1 = *	0.76 U	0.27 J *	0.64 U	0.63 U
Calcium	mg/kg	2,600 =	1,420 =	1,290 =	1,190 =	1,890 =
Chromium	mg/kg	14.2 =	11.7 =	8.4 =	15.1 =	10.2 =
Cobalt	mg/kg	6.6 J	5.5 J	5.6 =	8.7 =	5.1 J
Copper	mg/kg	36.8 J *	10.2 J	19.2 J *	17 J	16.1 J
Iron	mg/kg	15,200 =	12,000 =	16,000 =	19,500 =	15,400 =
Lead	mg/kg	80.2 = *	30.8 = *	28.7 = *	34 = *	55.4 J *
Magnesium	mg/kg	1,260 =	1,140 =	1,490 =	2,040 =	1,060 =
Manganese	mg/kg	597 =	67.8 =	354 =	343 =	517 =
Mercury	mg/kg	0.11 U	0.081 R	0.032 R	0.042 U	0.091 R
Nickel	mg/kg	12.4 =	15.1 =	13.8 =	23.1 = *	14.2 =
Potassium	mg/kg	891 =	1,490 = *	719 =	1,090 = *	572 J
Selenium	mg/kg	0.69 U	0.76 U	0.56 U	0.55 J	0.63 U
Silver	mg/kg	1.4 U	1.5 U	1.1 U	1.3 U	1.3 U
Sodium	mg/kg	693 UJ	756 UJ	561 UJ	643 UJ	628 UJ
Thallium	mg/kg	0.33 U	0.23 U	0.28 U	0.28 U	0.69 J *
Vanadium	mg/kg	12.7 =	8.5 =	9.3 =	13.8 =	8.8 =
Zinc	mg/kg	173 = *	82.2 = *	163 = *	86.8 = *	129 = *
Total Organic Carbon	mg/kg					

Table 4-31. Results for Surface Soil Samples – Inorganic Constituents and Total Organic Carbon (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	Change Houses (CB-12, -23, -8, -22) CB23-01 LL0733 LL1ss-23-01-0733-SO 11/04/1999 0 - 1 Grab	Change Houses (CB-12, -23, -8, -22) CB23-02 LL0734 LL1ss-23-02-0734-SO 11/04/1999 0 - 1 Grab	Change Houses (CB-12, -23, -8, -22) CB23-03 LL0735 LL1ss-23-03-0735-SO 11/04/1999 0 - 1 Grab	Change Houses (CB-12, -23, -8, -22) CB23-04 LL0736 LL1ss-23-04-0736-SO 11/04/1999 0 - 1 Grab	Change Houses (CB-12, -23, -8, -22) CB23-04 LL0744 LL1ss-23-04-0744-SO 11/04/1999 0 - 1 Field Duplicate
Cyanide	mg/kg	0.68 U	0.67 U	0.68 U	0.69 U	0.69 U
Chromium, hexavalent	mg/kg					
Aluminum	mg/kg	7,290 J	6,260 J	4,790 J	3,650 J	4,040 J
Antimony	mg/kg	0.98 J *	1.3 UJ	1.4 UJ	1.4 UJ	1.4 UJ
Arsenic	mg/kg	8.6 =	12.9 =	9.2 =	9.5 =	10 =
Barium	mg/kg	87.8 =	51.3 =	38.6 =	57.5 =	55.4 =
Beryllium	mg/kg	0.38 U	0.67 U	0.16 U	0.25 U	0.28 U
Cadmium	mg/kg	3.7 = *	2.7 = *	1.2 = *	0.55 J *	0.53 J *
Calcium	mg/kg	2,870 =	2,570 =	4,120 =	1,150 =	1,390 =
Chromium	mg/kg	18.7 = *	15.5 =	9.9 =	6.4 =	6.9 =
Cobalt	mg/kg	5.4 J	6 J	4.5 J	5.4 J	5.3 J
Copper	mg/kg	51.1 J *	31.4 J *	24.8 J *	13.3 J	13.1 J
Iron	mg/kg	16,500 =	16,900 =	14,100 =	10,900 =	11,200 =
Lead	mg/kg	426 = *	315 = *	84.6 = *	51.7 = *	50.5 = *
Magnesium	mg/kg	1,250 =	2,590 =	1,320 =	839 =	888 =
Manganese	mg/kg	679 =	506 =	422 =	867 =	864 =
Mercury	mg/kg	0.26 = *	0.13 U	0.069 U	0.21 R	0.26 = *
Nickel	mg/kg	15.5 =	21.7 = *	11.6 =	11.8 =	11.5 =
Potassium	mg/kg	892 =	561 J	846 =	513 J	557 J
Selenium	mg/kg	0.53 J	0.53 J	0.68 U	0.69 U	0.77 =
Silver	mg/kg	0.35 J *	1.3 U	1.4 U	1.4 U	1.4 U
Sodium	mg/kg	682 UJ	666 UJ	683 UJ	693 UJ	690 UJ
Thallium	mg/kg	0.27 U	0.36 U	0.29 U	0.29 U	0.25 U
Vanadium	mg/kg	11.9 =	13.7 =	9.2 =	7.2 =	7.8 =
Zinc	mg/kg	740 = *	725 = *	175 = *	96.1 = *	91.1 = *
Total Organic Carbon	mg/kg					

Table 4-31. Results for Surface Soil Samples – Inorganic Constituents and Total Organic Carbon (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	Change Houses (CB-12, -23, -8, -22) CB23-05 LL0742 LL1ss-23-05-0742-SO 11/04/1999 0 - 1 Grab	Change Houses (CB-12, -23, -8, -22) LL1-195 LL10903 LL1ss-195-0903-SO 09/28/2000 0 - 1 Grab	Change Houses (CB-12, -23, -8, -22) LL1-195 LL1126 LL1ss-195-1126-SO 09/28/2000 0 - 1 Field Duplicate	Change Houses (CB-12, -23, -8, -22) LL1-196 LL10905 LL1ss-196-0905-SO 09/28/2000 0 - 1 Grab	Change Houses (CB-12, -23, -8, -22) LL1-196 LL1127 LL1ss-196-1127-SO 09/28/2000 0 - 1 Field Duplicate
Cyanide	mg/kg	0.6 U	0.61 U	0.61 U	3 = *	0.64 U
Chromium, hexavalent	mg/kg					
Aluminum	mg/kg	7,160 J	15,000 =	14,500 =	16,800 =	17,200 =
Antimony	mg/kg	1.2 UJ	1.2 UJ	1.2 UJ	1.3 UJ	1.3 UJ
Arsenic	mg/kg	10.6 =	12 =	14.7 =	14 =	13 =
Barium	mg/kg	46.7 =	76.7 =	80.7 =	89.3 = *	94.7 = *
Beryllium	mg/kg	0.6 U	0.45 J	0.44 J	0.72 =	0.6 J
Cadmium	mg/kg	1.4 = *	0.14 J *	0.11 J *	0.65 U	0.075 J *
Calcium	mg/kg	1,330 =	926 =	1,020 =	358 J	414 J
Chromium	mg/kg	18.2 = *	18.1 = *	17.9 = *	19.5 = *	19.5 = *
Cobalt	mg/kg	7.1 =	10.4 =	17.2 = *	15.1 = *	15.1 = *
Copper	mg/kg	14.8 J	15.7 =	19.4 = *	10.9 =	11.2 =
Iron	mg/kg	18,000 =	24,200 = *	28,000 = *	28,300 = *	24,900 = *
Lead	mg/kg	85.8 = *	16.9 J	22.5 J	23.5 J	22 J
Magnesium	mg/kg	1,470 =	2,240 =	2,320 =	1,770 =	1,810 =
Manganese	mg/kg	492 =	900 =	1,640 = *	1,250 =	1,380 =
Mercury	mg/kg	0.062 U	0.062 J *	0.055 J *	0.071 J *	0.081 J *
Nickel	mg/kg	14.2 =	16 J	17.7 J	16.2 J	16.3 J
Potassium	mg/kg	1,150 = *	1,390 J *	1,170 J *	959 J *	997 J *
Selenium	mg/kg	0.57 J	1.3 =	0.71 =	1.2 =	1.2 =
Silver	mg/kg	1.2 U	1.2 U	1.2 U	1.3 U	1.3 U
Sodium	mg/kg	599 UJ	609 U	608 U	654 U	642 U
Thallium	mg/kg	0.29 U	0.73 = *	0.73 J *	0.73 = *	0.67 J *
Vanadium	mg/kg	14.6 =	29.2 =	29.5 =	39.3 = *	37.1 = *
Zinc	mg/kg	110 = *	60.9 =	60.4 =	70.5 = *	73.9 = *
Total Organic Carbon	mg/kg					

Table 4-31. Results for Surface Soil Samples – Inorganic Constituents and Total Organic Carbon (continued)

Location		Change Houses (CB-12, -23, -8, -22)	Change Houses (CB-12, -23, -8, -22)	Change Houses (CB-12, -23, -8, -22)	Perimeter Area	Perimeter Area
Station		LL1-247	LL1-248	LL1-249	LL1-188	LL1-189
Sample ID		LL10972	LL10973	LL10974	LL10895	LL10896
Customer ID		LL1ss-247-0972-SO	LL1ss-248-0973-SO	LL1ss-249-0974-SO	LL1ss-188-0895-SO	LL1ss-189-0896-SO
Date		09/27/2000	09/27/2000	09/27/2000	09/28/2000	09/28/2000
Depth (ft)		0 - 1	0 - 1	0 - 1	0 - 1	0 - 1
Field Type		Grab	Grab	Grab	Grab	Grab
Analyte	Units					
Cyanide	mg/kg	0.59 U	0.58 U	0.56 U	0.6 U	0.65 U
Chromium, hexavalent	mg/kg					
Aluminum	mg/kg	4,480 =	5,180 =	5,570 =	13,400 J	14,800 J
Antimony	mg/kg	1.2 UJ	1.2 UJ	1.1 UJ	1.2 UJ	0.74 J
Arsenic	mg/kg	10.4 =	6.9 =	9 =	9.2 J	24.6 J *
Barium	mg/kg	30.3 =	53.5 =	56.3 =	58.5 =	71.2 =
Beryllium	mg/kg	0.26 U	0.23 U	0.4 U	0.45 UJ	0.74 J
Cadmium	mg/kg	0.16 J *	1.3 = *	0.78 = *	0.6 UJ	0.65 UJ
Calcium	mg/kg	2,400 J	3,230 J	4,560 J	118 J	516 J
Chromium	mg/kg	8.5 =	9.9 =	9.9 =	14.4 J	18.2 J *
Cobalt	mg/kg	5.9 =	4.8 J	6.3 =	5.3 J	12 J *
Copper	mg/kg	13.9 =	16 =	18.7 = *	5.1 J	11.8 J
Iron	mg/kg	17,600 =	13,100 =	12,900 =	20,400 =	29,500 = *
Lead	mg/kg	47 J *	125 J *	115 J *	12.7 J	22.4 J
Magnesium	mg/kg	1,130 =	1,470 =	1,360 =	1,250 =	2,220 =
Manganese	mg/kg	443 =	370 =	857 =	319 =	871 =
Mercury	mg/kg	0.028 J	0.034 J	0.054 J *	0.043 J *	0.05 J *
Nickel	mg/kg	12 =	12.5 =	14 =	10.1 J	17 J
Potassium	mg/kg	614 =	742 =	521 =	1,220 = *	904 =
Selenium	mg/kg	0.59 U	0.58 U	0.56 U	0.6 UJ	0.65 UJ
Silver	mg/kg	1.2 U	1.2 U	1.1 U	1.2 U	1.3 U
Sodium	mg/kg	593 U	66.9 U	69.2 U	604 U	653 U
Thallium	mg/kg	0.32 J *	0.36 U	0.29 J *	0.41 J *	0.51 J *
Vanadium	mg/kg	10 =	10.4 =	11 =	22.5 =	28.7 =
Zinc	mg/kg	84.5 J *	219 J *	204 J *	48.8 J	60.6 J
Total Organic Carbon	mg/kg					

Table 4-31. Results for Surface Soil Samples – Inorganic Constituents and Total Organic Carbon (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	Perimeter Area LL1-190 LL10897 LL1ss-190-0897-SO 09/28/2000 0 - 1 Grab	Perimeter Area LL1-190 LL1132 LL1ss-190-1132-SO 09/28/2000 0 - 1 Field Duplicate	Perimeter Area LL1-191 LL10898 LL1ss-191-0898-SO 09/28/2000 0 - 1 Grab	Perimeter Area LL1-192 LL10900 LL1ss-192-0900-SO 09/28/2000 0 - 1 Grab	Perimeter Area LL1-193 LL10901 LL1ss-193-0901-SO 09/28/2000 0 - 1 Grab
Cyanide	mg/kg	0.59 U	0.59 U	0.75 = *	1.4 = *	0.63 U
Chromium, hexavalent	mg/kg					
Aluminum	mg/kg	13,300 =	8,490 =	21,300 = *	12,800 =	11,800 =
Antimony	mg/kg	1.2 UJ	1.2 UJ	1.3 UJ	1.2 UJ	1.3 UJ
Arsenic	mg/kg	9.7 =	9.8 =	14.6 =	7.6 =	9.8 =
Barium	mg/kg	93 = *	76.3 =	90.1 = *	57.3 =	75.3 =
Beryllium	mg/kg	0.35 J	0.33 J	0.35 J	0.29 J	0.41 J
Cadmium	mg/kg	0.19 J *	0.13 J *	0.67 U	0.58 U	0.088 J *
Calcium	mg/kg	33,900 = *	40,600 = *	990 =	356 J	869 =
Chromium	mg/kg	15.3 =	10.6 =	25.2 = *	16.4 =	15.3 =
Cobalt	mg/kg	8.2 =	6.9 =	4.9 J	8.8 =	10.5 = *
Copper	mg/kg	13.2 =	11.2 =	18.5 = *	8 =	10.4 =
Iron	mg/kg	20,600 =	17,900 =	33,400 = *	17,600 =	20,100 =
Lead	mg/kg	15.2 J	15.9 J	17 J	13.2 J	17.5 J
Magnesium	mg/kg	2,010 =	1,610 =	2,230 =	1,510 =	1,560 =
Manganese	mg/kg	824 =	572 =	99 =	638 =	844 =
Mercury	mg/kg	0.046 J *	0.04 J *	0.048 J *	0.033 J	0.049 J *
Nickel	mg/kg	14.7 J	12.1 J	14.6 J	13 J	14.4 J
Potassium	mg/kg	1,040 J *	499 J	1,250 J *	1,010 J *	784 J
Selenium	mg/kg	1.2 =	0.83 =	1.5 = *	0.59 =	0.74 =
Silver	mg/kg	1.2 U	1.2 U	1.3 U	1.2 U	1.3 U
Sodium	mg/kg	592 U	594 U	671 U	580 U	628 U
Thallium	mg/kg	0.5 J *	0.63 = *	0.86 = *	0.64 = *	0.84 = *
Vanadium	mg/kg	25.5 =	18.1 =	46.3 = *	25.5 =	25.1 =
Zinc	mg/kg	55.4 =	40.2 =	49.7 =	47.1 =	63.9 = *
Total Organic Carbon	mg/kg					

Table 4-31. Results for Surface Soil Samples – Inorganic Constituents and Total Organic Carbon (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	Perimeter Area LL1-194 LL10902 LL1ss-194-0902-SO 09/28/2000 0 - 1 Grab	Perimeter Area LL1-197 LL10906 LL1ss-197-0906-SO 09/28/2000 0 - 1 Grab	Perimeter Area LL1-198 LL10907 LL1ss-198-0907-SO 09/26/2000 0 - 1 Grab	Perimeter Area LL1-198 LL1119 LL1ss-198-1119-SO 09/26/2000 0 - 1 Field Duplicate	Perimeter Area LL1-199 LL10908 LL1ss-199-0908-SO 09/27/2000 0 - 1 Grab
Cyanide	mg/kg	1.7 = *	0.58 U	0.64 U	0.63 U	0.58 U
Chromium, hexavalent	mg/kg			1.3 UJ	1.3 UJ	1.2 UJ
Aluminum	mg/kg	16,800 =	9,900 =	11,400 =	12,100 =	13,300 =
Antimony	mg/kg	1.2 UJ	1.2 UJ	1.3 UJ	1.3 UJ	1.2 UJ
Arsenic	mg/kg	13.1 =	8.6 =	8.6 =	10.3 =	14.3 =
Barium	mg/kg	105 = *	57.4 =	51.8 =	49.7 =	68.3 =
Beryllium	mg/kg	0.82 =	0.27 J	0.34 U	0.34 U	0.61 =
Cadmium	mg/kg	0.21 J *	0.58 U	0.64 U	0.63 U	0.22 J *
Calcium	mg/kg	1,300 =	327 J	137 J	164 J	2,850 =
Chromium	mg/kg	19.4 = *	11.8 =	12.5 =	13.9 =	16.7 J
Cobalt	mg/kg	11.8 = *	7.5 =	6.7 =	7.1 =	12.3 = *
Copper	mg/kg	13.5 =	13.3 =	7.1 =	7.5 =	19.6 = *
Iron	mg/kg	25,000 = *	14,900 =	17,000 =	21,500 =	26,600 = *
Lead	mg/kg	25 J	21.6 J	15.8 J	15.5 J	14.2 =
Magnesium	mg/kg	2,030 =	1,240 =	1,530 J	1,690 J	3,160 = *
Manganese	mg/kg	2,070 = *	618 =	142 =	154 =	526 =
Mercury	mg/kg	0.088 J *	0.079 J *	0.038 J *	0.038 J *	0.019 J
Nickel	mg/kg	20.5 J	11.4 J	10.5 =	11.4 =	22.8 = *
Potassium	mg/kg	1,190 J *	551 J	618 J	646 =	1,450 = *
Selenium	mg/kg	1.2 =	1.7 = *	0.64 U	0.63 U	0.58 U
Silver	mg/kg	1.2 U	1.2 U	1.3 U	1.3 U	1.2 U
Sodium	mg/kg	621 U	582 U	638 U	64.7 U	59.5 U
Thallium	mg/kg	0.76 = *	0.66 = *	0.43 J *	0.47 J *	0.52 J *
Vanadium	mg/kg	32.8 = *	19.8 =	20.4 =	23.5 =	20.8 =
Zinc	mg/kg	78.3 = *	60.3 =	47.6 =	50.1 =	62.9 = *
Total Organic Carbon	mg/kg					

Table 4-31. Results for Surface Soil Samples – Inorganic Constituents and Total Organic Carbon (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	Perimeter Area LL1-199 LL1125 LL1ss-199-1125-SO 09/27/2000 0 - 1 Field Duplicate	Perimeter Area LL1-201 LL10911 LL1ss-201-0911-SO 09/28/2000 0 - 1 Grab	Perimeter Area LL1-206 LL10917 LL1ss-206-0917-SO 09/26/2000 0 - 1 Grab	Perimeter Area LL1-207 LL10918 LL1ss-207-0918-SO 09/26/2000 0 - 1 Grab	Perimeter Area LL1-208 LL10919 LL1ss-208-0919-SO 09/27/2000 0 - 1 Grab
Cyanide	mg/kg	0.58 U	0.58 U	0.67 U	0.68 U	0.71 U
Chromium, hexavalent	mg/kg	1.2 UJ		1.5 J	1.4 UJ	
Aluminum	mg/kg	12,800 =	12,200 =	16,500 =	10,000 =	18,400 = *
Antimony	mg/kg	1.2 UJ	1.2 UJ	0.81 J	1.4 UJ	1.4 UJ
Arsenic	mg/kg	14 =	9.6 =	14.9 =	10.4 =	10.7 =
Barium	mg/kg	68.2 =	63.2 =	79.1 =	144 = *	138 = *
Beryllium	mg/kg	0.6 =	0.33 J	0.75 =	0.55 J	0.69 J
Cadmium	mg/kg	0.22 J *	0.052 J *	0.67 U	0.11 J *	0.24 J *
Calcium	mg/kg	3,960 =	322 J	188 J	4,960 J	799 =
Chromium	mg/kg	15.7 J	14.4 =	19.8 = *	12.6 =	20.9 J *
Cobalt	mg/kg	10.3 =	8.6 =	20.5 = *	11.9 = *	5.1 J
Copper	mg/kg	18.8 = *	10.1 =	14 =	12.2 =	10.7 =
Iron	mg/kg	25,800 = *	18,800 =	29,900 = *	19,400 =	22,100 =
Lead	mg/kg	13 =	19.5 J	29.8 J *	34.5 J *	23.8 =
Magnesium	mg/kg	3,220 = *	1,610 =	1,960 J	1,620 J	2,000 =
Manganese	mg/kg	456 =	557 =	1,670 = *	2,340 = *	585 =
Mercury	mg/kg	0.021 J	0.07 J *	0.088 J *	0.088 J *	0.093 J *
Nickel	mg/kg	21.2 = *	13.2 J	16 =	15.1 =	16.1 =
Potassium	mg/kg	1,210 = *	692 J	774 =	566 J	1,430 = *
Selenium	mg/kg	0.58 U	1 =	0.46 J	0.68 U	0.71 U
Silver	mg/kg	1.2 U	1.2 U	1.3 U	1.4 U	1.4 U
Sodium	mg/kg	60 U	579 U	668 U	75.6 U	707 U
Thallium	mg/kg	0.54 J *	0.59 = *	0.6 J *	0.49 J *	0.62 J *
Vanadium	mg/kg	19.4 =	23.6 =	35.8 = *	21.7 =	34.7 = *
Zinc	mg/kg	61.5 =	58.9 =	67.7 = *	64.6 = *	72.1 = *
Total Organic Carbon	mg/kg					

Table 4-31. Results for Surface Soil Samples – Inorganic Constituents and Total Organic Carbon (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	Perimeter Area LL1-209 LL10920 LL1ss-209-0920-SO 09/15/2000 0 - 1 Grab	Perimeter Area LL1-210 LL10921 LL1ss-210-0921-SO 09/27/2000 0 - 1 Grab	Perimeter Area LL1-210 LL1124 LL1ss-210-1124-SO 09/27/2000 0 - 1 Field Duplicate	Perimeter Area LL1-211 LL10924 LL1ss-211-0924-SO 09/27/2000 0 - 1 Grab	Perimeter Area LL1-212 LL10925 LL1ss-212-0925-SO 09/27/2000 0 - 1 Grab
Cyanide	mg/kg	0.58 U	0.6 U	0.63 U	0.63 U	0.63 U
Chromium, hexavalent	mg/kg		1.2 UJ	1.3 R		
Aluminum	mg/kg	11,000 =	15,000 =	13,000 =	11,400 =	13,300 =
Antimony	mg/kg	1.2 UJ	1.2 UJ	1.3 UJ	1.3 UJ	1.3 UJ
Arsenic	mg/kg	8.7 =	10.6 =	13 =	8.3 =	8.3 =
Barium	mg/kg	53.2 =	87 =	84.8 =	123 = *	97 = *
Beryllium	mg/kg	0.3 U	0.55 J	0.61 J	0.67 =	0.48 J
Cadmium	mg/kg	0.32 J *	0.19 J *	0.21 J *	0.63 U	0.63 U
Calcium	mg/kg	154 J	506 U	428 U	403 J	632 UJ
Chromium	mg/kg	13.3 =	17.6 J *	17.1 J	13.2 =	15 =
Cobalt	mg/kg	6.2 =	9.8 =	9.7 =	14 = *	11.7 = *
Copper	mg/kg	8.1 J	12.6 =	12 =	9.9 =	10.2 =
Iron	mg/kg	17,500 =	22,900 =	26,900 = *	17,800 =	18,600 =
Lead	mg/kg	15.4 =	17.2 =	18.6 =	15.4 J	16.7 J
Magnesium	mg/kg	1,540 =	1,960 =	1,770 =	1,630 =	1,880 =
Manganese	mg/kg	171 =	918 =	935 =	1,360 =	1,010 =
Mercury	mg/kg	0.04 J *	0.06 J *	0.056 J *	0.04 J *	0.075 J *
Nickel	mg/kg	11.3 =	14.1 =	13.5 =	17.4 =	17.1 =
Potassium	mg/kg	699 =	1,080 = *	781 =	856 =	926 =
Selenium	mg/kg	1.2 =	0.6 U	0.63 U	0.63 U	0.63 U
Silver	mg/kg	1.2 U	1.2 U	1.3 U	1.3 U	1.3 U
Sodium	mg/kg	576 U	603 U	630 U	630 U	632 U
Thallium	mg/kg	0.52 J *	0.6 J *	0.61 J *	0.69 = *	0.73 = *
Vanadium	mg/kg	22.2 =	31.4 = *	30.3 =	21.2 =	24.2 =
Zinc	mg/kg	62.9 = *	62.8 = *	54.9 =	52.7 J	61.4 J
Total Organic Carbon	mg/kg					

Table 4-31. Results for Surface Soil Samples – Inorganic Constituents and Total Organic Carbon (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	Perimeter Area LL1-213 LL10926 LL1ss-213-0926-SO 09/27/2000 0 - 1 Grab	Perimeter Area LL1-213 LL1123 LL1ss-213-1123-SO 09/27/2000 0 - 1 Field Duplicate	Perimeter Area LL1-214 LL10927 LL1ss-214-0927-SO 09/27/2000 0 - 1 Grab	Perimeter Area LL1-215 LL10928 LL1ss-215-0928-SO 09/27/2000 0 - 1 Grab	Perimeter Area LL1-216 LL10929 LL1ss-216-0929-SO 09/27/2000 0 - 1 Grab
Cyanide	mg/kg	0.61 U	0.61 U	0.55 U	0.6 U	0.61 U
Chromium, hexavalent	mg/kg					
Aluminum	mg/kg	11,000 =	11,100 =	9,960 =	11,800 =	14,300 =
Antimony	mg/kg	1.2 UJ	1.2 UJ	1.1 UJ	1.2 UJ	1.2 UJ
Arsenic	mg/kg	7.5 =	7.3 =	9.2 =	14.2 =	16.3 = *
Barium	mg/kg	92.3 = *	92.9 = *	67.2 =	82.3 =	86 =
Beryllium	mg/kg	0.37 U	0.38 U	0.32 U	0.42 J	0.55 J
Cadmium	mg/kg	0.61 U	0.61 U	0.55 U	0.17 U	0.1 U
Calcium	mg/kg	605 UJ	607 UJ	552 UJ	408 J	295 J
Chromium	mg/kg	11.9 =	12.2 =	11.7 =	15.3 =	17.8 = *
Cobalt	mg/kg	9.2 =	9.6 =	10.6 = *	13.8 = *	10.6 = *
Copper	mg/kg	7.9 =	8.5 =	7.4 =	12.6 =	9.5 =
Iron	mg/kg	15,000 =	15,000 =	17,000 =	25,800 = *	30,100 = *
Lead	mg/kg	14.6 J	15.7 J	15.5 J	18.9 =	20.8 =
Magnesium	mg/kg	1,530 =	1,590 =	1,370 =	1,890 =	1,970 =
Manganese	mg/kg	730 =	715 =	956 =	2,130 = *	1,550 = *
Mercury	mg/kg	0.069 J *	0.055 J *	0.057 J *	0.043 J *	0.05 J *
Nickel	mg/kg	15.1 =	15.1 =	12.5 =	14.1 =	14.7 =
Potassium	mg/kg	597 J	629 =	565 =	678 =	1,060 = *
Selenium	mg/kg	0.59 U	0.43 U	0.35 U	0.6 U	0.58 J
Silver	mg/kg	1.2 U	1.2 U	1.1 U	1.2 U	1.2 U
Sodium	mg/kg	605 U	607 U	552 U	600 U	614 U
Thallium	mg/kg	0.48 J *	0.55 J *	0.5 J *	0.62 J *	0.75 J *
Vanadium	mg/kg	20 =	20 =	22.3 =	27.3 =	35.7 = *
Zinc	mg/kg	54.4 J	56.3 J	41.7 J	49.7 J	72.3 J *
Total Organic Carbon	mg/kg					

Table 4-31. Results for Surface Soil Samples – Inorganic Constituents and Total Organic Carbon (continued)

Location		Perimeter Area	Perimeter Area	Perimeter Area	Perimeter Area	Railroad Bed Locations
Station		LL1-217	LL1-250	LL1-251	LL1-416	LL1-245
Sample ID		LL10930	LL10977	LL10978	LL1349	LL1326
Customer ID		LL1ss-217-0930-SO	LL1ss-250-0977-SO	LL1ss-251-0978-SO	LL1ss-416-1349-SO	LL1ss-245-1326-SO
Date		09/27/2000	09/29/2000	09/29/2000	10/03/2000	10/02/2000
Depth (ft)		0 - 1	0 - 1	0 - 1	0 - 1	0 - 1
Field Type		Grab	Grab	Grab	Grab	Grab
Analyte	Units					
Cyanide	mg/kg	0.63 U	0.57 U			
Chromium, hexavalent	mg/kg					
Aluminum	mg/kg	11,700 =	12,800 =	8,840 =	12,600 =	6,500 =
Antimony	mg/kg	1.3 UJ	1.1 UJ	1.3 UJ	1.2 UJ	1.1 UJ
Arsenic	mg/kg	13.3 =	11.3 J	11.4 J	10.6 =	10.3 =
Barium	mg/kg	77.9 =	70.4 J	74.2 J	97.4 = *	91.8 = *
Beryllium	mg/kg	0.43 U	0.38 J	0.54 J	0.4 J	0.59 =
Cadmium	mg/kg	0.63 U	0.073 J *	0.64 UJ	0.61 U	0.082 J *
Calcium	mg/kg	623 J	1,160 =	242 J	346 J	19,900 = *
Chromium	mg/kg	15.6 =	15.6 J	10.8 J	14.9 =	10.1 =
Cobalt	mg/kg	7.9 =	10.2 J	5.4 J	12.5 = *	5 J
Copper	mg/kg	7.7 =	11.6 J	6.6 J	10.1 =	7.9 =
Iron	mg/kg	26,900 = *	22,100 =	23,400 = *	22,000 =	24,100 = *
Lead	mg/kg	22.3 J	19.4 J	23.9 J	16.6 =	16.1 =
Magnesium	mg/kg	1,980 =	1,700 J	919 J	1,940 =	2,660 =
Manganese	mg/kg	877 =	631 =	458 =	905 =	1,340 =
Mercury	mg/kg	0.062 J *	0.029 J	0.019 J	0.03 J	0.11 U
Nickel	mg/kg	15.1 =	13.7 J	8.9 J	16.7 =	11.1 =
Potassium	mg/kg	1,140 = *	907 J	369 J	693 =	835 =
Selenium	mg/kg	0.56 U	1.1 J	0.84 J	0.71 =	0.55 U
Silver	mg/kg	1.3 U	1.1 U	1.3 U	1.2 U	1.1 U
Sodium	mg/kg	631 U	573 UJ	635 UJ	613 U	112 J
Thallium	mg/kg	0.54 J *	0.61 J *	0.61 J *	0.4 J *	0.42 J *
Vanadium	mg/kg	29.5 =	27.3 J	22.7 J	25 =	9.8 =
Zinc	mg/kg	68.5 J *	62.9 J *	37.4 J	53.8 =	121 = *
Total Organic Carbon	mg/kg					

Table 4-31. Results for Surface Soil Samples – Inorganic Constituents and Total Organic Carbon (continued)

Location		Railroad Bed Locations	Water Tower	Water Tower	Water Tower	Water Tower	Water Tower
Station		LL1-246	LL1-218	LL1-219	LL1-220	LL1-411	LL1-412
Sample ID		LL1327	LL10931	LL10932	LL10933	LL1310	LL1309
Customer ID		LL1ss-246-1327-SO	LL1ss-218-0931-SO	LL1ss-219-0932-SO	LL1ss-220-0933-SO	LL1ss-411-1310-SO	LL1ss-412-1309-SO
Date		10/02/2000	09/20/2000	09/20/2000	09/20/2000	09/29/2000	09/29/2000
Depth (ft)		0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1
Field Type		Grab	Grab	Grab	Grab	Grab	Grab
Analyte	Units						
Cyanide	mg/kg						
Chromium, hexavalent	mg/kg		1.2 UJ	1.1 UJ	1.1 UJ		
Aluminum	mg/kg	5,550 =	11,200 =	12,800 =	13,300 =	11,800 =	7,240 =
Antimony	mg/kg	1.1 UJ	1.2 UJ	1.1 UJ	1.1 UJ	1.2 UJ	1.9 J *
Arsenic	mg/kg	7.7 =	13.7 =	11.5 =	11.5 =	12.3 =	14 =
Barium	mg/kg	49.3 =	64.7 =	67.1 =	77.3 =	68.5 J	73.9 J
Beryllium	mg/kg	0.4 J	0.63 J	0.47 J	0.92 J *	0.75 =	0.42 J
Cadmium	mg/kg	0.57 U	0.27 J *	0.19 J *	0.29 J *	0.6 UJ	0.11 J *
Calcium	mg/kg	4,960 =	1,820 =	1,400 =	3,070 =	2,660 J	3,320 J
Chromium	mg/kg	9.3 =	25.6 = *	17.9 = *	34.1 = *	19.9 J *	385 J *
Cobalt	mg/kg	5.5 J	10.5 = *	8.7 =	11.9 = *	13 = *	18.2 = *
Copper	mg/kg	7.9 =	26.2 = *	12.3 =	23.8 = *	21.3 J *	51.3 J *
Iron	mg/kg	15,400 =	29,000 = *	23,000 =	21,800 =	26,200 = *	48,500 = *
Lead	mg/kg	10.4 =	244 = *	43.2 = *	228 = *	18.4 =	2,510 = *
Magnesium	mg/kg	1,390 =	2,140 =	2,140 =	2,530 =	2,880 =	1,820 =
Manganese	mg/kg	818 =	482 =	408 =	495 =	452 =	687 =
Mercury	mg/kg	0.11 U	0.057 J *	0.047 J *	0.037 J *	0.055 U	0.051 U
Nickel	mg/kg	11.8 =	23.3 = *	16.8 =	32.4 = *	31.2 J *	29.2 J *
Potassium	mg/kg	885 =	1,390 = *	1,340 = *	2,320 = *	1,640 = *	1,380 = *
Selenium	mg/kg	0.57 U	0.77 U	0.37 U	0.57 U	0.6 U	0.56 U
Silver	mg/kg	1.1 U	1.2 U	1.1 U	1.1 U	1.2 U	1.1 U
Sodium	mg/kg	572 U	77.8 U	69.5 U	97.7 U	595 U	108 J
Thallium	mg/kg	0.41 J *	0.59 = *	0.49 J *	0.53 J *	0.61 J *	0.67 = *
Vanadium	mg/kg	10 =	21.4 =	23.9 =	22 =	18.5 =	14.1 =
Zinc	mg/kg	49.9 =	71.8 = *	57.8 =	93.4 = *	54.1 =	933 = *
Total Organic Carbon	mg/kg						

* = exceeds site-wide background criteria.
"=" = detected.
J = estimated.
U = not detected.
UJ = not detected, detection limit estimated.
R = rejected.
Blank fields indicate no analysis for a particular constituent was conducted.

Table 4-32. Results for Surface Soil Samples – Propellant and Explosive Constituents

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-4/4A and CA-6/6A LL1-001 LL10800 LL1ss-001-0800-SO 09/12/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-002 LL10803 LL1ss-002-0803-SO 09/12/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-003 LL10805 LL1ss-003-0805-SO 09/13/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-009 LL10829 LL1ss-009-0829-SO 09/14/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-010 LL10832 LL1ss-010-0832-SO 09/14/2000 0 - 1 Grab
1,3,5-Trinitrobenzene	mg/kg	4 J	0.25 U	0.25 U	0.25 U	0.75 U
1,3-Dinitrobenzene	mg/kg	10 U	0.25 U	0.25 U	0.25 U	0.75 U
2,4,6-Trinitrotoluene	mg/kg	310 =	3.1 =	2.8 =	8.5 =	23 =
2,4-Dinitrotoluene	mg/kg	10 U	0.25 U	0.09 J	0.25 U	0.23 J
2,6-Dinitrotoluene	mg/kg	10 U	0.25 U	0.25 U	0.25 UJ	0.75 U
2-Amino-4,6-dinitrotoluene	mg/kg	7.9 J	0.45 =	0.9 =	0.39 J	2.5 =
2-Nitrotoluene	mg/kg	10 U	0.25 U	0.25 U	0.25 U	0.75 U
3-Nitrotoluene	mg/kg	10 U	0.25 U	0.25 U	0.25 U	0.75 U
4-Amino-2,6-dinitrotoluene	mg/kg	10 U	1.1 U	1.7 =	2.6 U	6.9 U
4-Nitrotoluene	mg/kg	10 U	0.25 U	0.25 U	0.25 UJ	0.75 U
HMX	mg/kg	20 U	0.5 U	0.5 U	2.1 =	2.9 =
Nitrobenzene	mg/kg	10 U	0.25 U	0.25 U	0.25 U	0.75 U
Nitrocellulose	mg/kg	18.7 J	1.2 J	6 J	4.3 =	7.2 J
Nitroglycerin	mg/kg	100 U	2.5 U	2.5 U	2.5 U	7.5 U
Nitroguanidine	mg/kg	2.5 U	0.25 U	0.25 U	0.25 U	0.25 UJ
RDX	mg/kg	20 U	0.5 U	0.5 U	2 =	7 =
Tetryl	mg/kg	26 U	0.65 U	0.65 U	0.65 U	2 U

Table 4-32. Results for Surface Soil Samples – Propellant and Explosive Constituents (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-4/4A and CA-6/6A LL1-011 LL10837 LL1ss-011-0837-SO 09/12/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-013 LL10834 LL1ss-013-0834-SO 09/15/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-014 LL10839 LL1ss-014-0839-SO 09/12/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-015 LL10841 LL1ss-015-0841-SO 09/12/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-016 LL10857 LL1ss-016-0857-SO 09/13/2000 0 - 1 Grab
1,3,5-Trinitrobenzene	mg/kg	1.2 U	0.25 U	1.2 U	12 U	0.25 U
1,3-Dinitrobenzene	mg/kg	1.2 U	0.25 U	1.2 U	12 U	0.25 U
2,4,6-Trinitrotoluene	mg/kg	3.9 =	2.7 =	40 =	390 =	1.2 =
2,4-Dinitrotoluene	mg/kg	1.2 U	0.25 U	1.2 U	12 U	0.25 U
2,6-Dinitrotoluene	mg/kg	1.2 U	0.25 U	1.2 U	12 U	0.094 J
2-Amino-4,6-dinitrotoluene	mg/kg	1.5 =	0.23 J	1.2 U	11 J	0.3 =
2-Nitrotoluene	mg/kg	1.2 U	0.25 U	0.69 J	12 U	0.25 U
3-Nitrotoluene	mg/kg	1.2 U	0.25 U	1.2 U	12 U	0.25 U
4-Amino-2,6-dinitrotoluene	mg/kg	2.7 =	1.2 U	1.2 U	110 U	0.63 =
4-Nitrotoluene	mg/kg	1.2 U	0.25 U	1.2 U	12 U	0.25 U
HMX	mg/kg	5 =	0.5 U	2.5 U	20 J	0.5 U
Nitrobenzene	mg/kg	1.2 U	0.25 U	1.2 U	12 U	0.25 U
Nitrocellulose	mg/kg	53.4 J	3.1 =	2.9 J	97 J	2 UJ
Nitroglycerin	mg/kg	12 U	2.5 U	12 U	120 U	2.5 U
Nitroguanidine	mg/kg	0.25 U	0.25 U	0.25 U	2.5 U	0.25 U
RDX	mg/kg	39 =	0.5 U	1.4 J	120 =	0.5 U
Tetryl	mg/kg	3.2 U	0.65 U	3.2 U	32 U	0.65 U

Table 4-32. Results for Surface Soil Samples – Propellant and Explosive Constituents (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-4/4A and CA-6/6A LL1-023 LL10788 LL1ss-023-0788-SO 09/15/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-024 LL10981 LL1ss-024-0981-SO 09/26/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-024 LL1112 LL1ss-024-1112-SO 09/26/2000 0 - 1 Field Duplicate	CB-4/4A and CA-6/6A LL1-029 LL10865 LL1ss-029-0865-SO 09/18/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-136 LL10791 LL1ss-136-0791-SO 09/15/2000 0 - 1 Grab
1,3,5-Trinitrobenzene	mg/kg	0.25 U	0.25 U	0.25 U	0.5 U	6.2 U
1,3-Dinitrobenzene	mg/kg	0.25 U	0.25 U	0.25 U	0.5 U	6.2 U
2,4,6-Trinitrotoluene	mg/kg	0.98 =	0.25 U	0.25 U	11 =	180 =
2,4-Dinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.5 U	6.2 U
2,6-Dinitrotoluene	mg/kg	0.26 U	0.25 U	0.25 U	0.5 U	6.2 U
2-Amino-4,6-dinitrotoluene	mg/kg	0.89 =	0.25 U	0.11 J	1.6 =	4.9 J
2-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.5 U	6.2 U
3-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.5 U	6.2 U
4-Amino-2,6-dinitrotoluene	mg/kg	0.84 =	0.25 U	0.19 J	3.4 U	6.2 U
4-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.5 U	6.2 U
HMX	mg/kg	0.5 U	0.5 U	0.5 U	1 U	12 U
Nitrobenzene	mg/kg	0.25 U	0.25 U	0.25 U	0.5 U	6.2 U
Nitrocellulose	mg/kg	2 U	2 U	2 U	23 =	2.7 =
Nitroglycerin	mg/kg	2.5 U	2.5 U	2.5 U	5 U	62 U
Nitroguanidine	mg/kg	0.25 U	0.25 U	0.25 U	0.25 UJ	0.25 U
RDX	mg/kg	0.5 U	0.5 U	0.5 U	0.39 J	12 U
Tetryl	mg/kg	0.65 U	0.65 U	0.65 U	1.3 U	16 U

Table 4-32. Results for Surface Soil Samples – Propellant and Explosive Constituents (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-4/4A and CA-6/6A LL1-137 LL10792 LL1ss-137-0792-SO 09/15/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-138 LL10793 LL1ss-138-0793-SO 09/16/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-139 LL10794 LL1ss-139-0794-SO 09/16/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-140 LL10795 LL1ss-140-0795-SO 09/16/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-141 LL10796 LL1ss-141-0796-SO 09/15/2000 0 - 1 Grab
1,3,5-Trinitrobenzene	mg/kg	1.2 U	0.25 U	0.25 U	0.25 U	0.25 U
1,3-Dinitrobenzene	mg/kg	1.2 U	0.25 U	0.062 J	0.25 U	0.25 U
2,4,6-Trinitrotoluene	mg/kg	36 =	0.17 J	0.17 J	0.25 U	0.17 J
2,4-Dinitrotoluene	mg/kg	1.2 U	0.25 U	0.25 U	0.25 U	0.091 J
2,6-Dinitrotoluene	mg/kg	0.86 J	0.25 U	0.25 UJ	0.25 UJ	0.25 UJ
2-Amino-4,6-dinitrotoluene	mg/kg	2.5 =	0.1 J	0.16 J	0.25 UJ	0.58 J
2-Nitrotoluene	mg/kg	1.2 U	0.25 U	0.25 U	0.25 U	0.18 J
3-Nitrotoluene	mg/kg	1.2 U	0.15 J	0.25 U	0.25 U	0.18 J
4-Amino-2,6-dinitrotoluene	mg/kg	8.8 U	0.25 U	0.25 U	0.25 U	0.43 =
4-Nitrotoluene	mg/kg	1.2 U	0.16 J	0.25 UJ	0.25 UJ	0.25 UJ
HMX	mg/kg	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Nitrobenzene	mg/kg	1.2 U	0.25 U	0.25 U	0.25 U	0.062 J
Nitrocellulose	mg/kg	13.4 =	2 U	2 U	2 U	2 UJ
Nitroglycerin	mg/kg	12 U	2.5 U	2.5 U	2.5 U	2.5 U
Nitroguanidine	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 UJ
RDX	mg/kg	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetryl	mg/kg	3.2 U	0.65 U	0.65 U	0.65 U	0.65 U

Table 4-32. Results for Surface Soil Samples – Propellant and Explosive Constituents (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-4/4A and CA-6/6A LL1-142 LL10798 LL1ss-142-0798-SO 09/15/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-143 LL10799 LL1ss-143-0799-SO 09/16/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-143 LL1111 LL1ss-143-1111-SO 09/16/2000 0 - 1 Field Duplicate	CB-4/4A and CA-6/6A LL1-144 LL10819 LL1ss-144-0819-SO 09/12/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-145 LL10820 LL1ss-145-0820-SO 09/12/2000 0 - 1 Grab
1,3,5-Trinitrobenzene	mg/kg	0.25 U	0.25 U	0.25 U	2.5 U	0.25 U
1,3-Dinitrobenzene	mg/kg	0.25 U	0.25 U	0.25 U	2.5 U	0.25 U
2,4,6-Trinitrotoluene	mg/kg	0.22 J	0.25 U	0.25 U	87 =	0.67 =
2,4-Dinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	2.5 U	0.25 U
2,6-Dinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	2.5 U	0.25 U
2-Amino-4,6-dinitrotoluene	mg/kg	0.4 =	0.25 U	0.25 U	2.5 U	0.25 U
2-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	2.5 U	0.25 U
3-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	2.5 U	0.25 U
4-Amino-2,6-dinitrotoluene	mg/kg	0.37 =	0.25 U	0.25 U	2.5 U	0.26 U
4-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	2.5 U	0.25 U
HMX	mg/kg	0.5 U	0.5 U	0.5 U	5 U	0.5 U
Nitrobenzene	mg/kg	0.25 U	0.25 U	0.25 U	2.5 U	0.25 U
Nitrocellulose	mg/kg	2 U	2 U	2 U	4.5 J	2.9 J
Nitroglycerin	mg/kg	2.5 U	2.5 U	2.5 U	25 U	2.5 U
Nitroguanidine	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
RDX	mg/kg	0.5 U	0.5 U	0.5 U	5 U	0.5 U
Tetryl	mg/kg	0.65 U	0.65 U	0.65 U	6.5 U	0.65 U

Table 4-32. Results for Surface Soil Samples – Propellant and Explosive Constituents (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-4/4A and CA-6/6A LL1-146 LL10821 LL1ss-146-0821-SO 09/12/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-148 LL10823 LL1ss-148-0823-SO 09/13/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-150 LL10825 LL1ss-150-0825-SO 09/14/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-151 LL10826 LL1ss-151-0826-SO 09/14/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-153 LL10828 LL1ss-153-0828-SO 09/14/2000 0 - 1 Grab
1,3,5-Trinitrobenzene	mg/kg	0.25 U	0.25 U	0.25 U	1 U	0.25 U
1,3-Dinitrobenzene	mg/kg	0.25 U	0.25 U	0.25 U	1 U	0.25 U
2,4,6-Trinitrotoluene	mg/kg	1.1 =	0.25 U	0.55 =	30 =	0.37 =
2,4-Dinitrotoluene	mg/kg	0.25 U	0.25 U	0.062 J	1 U	0.25 U
2,6-Dinitrotoluene	mg/kg	0.25 U	0.097 J	0.093 J	1 U	0.25 U
2-Amino-4,6-dinitrotoluene	mg/kg	0.24 J	0.11 J	0.25 UJ	1.6 =	0.25 U
2-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	1 U	0.25 U
3-Nitrotoluene	mg/kg	0.25 U	0.14 J	0.25 U	1 U	0.25 U
4-Amino-2,6-dinitrotoluene	mg/kg	0.71 U	0.25 U	0.25 U	8.1 U	0.16 J
4-Nitrotoluene	mg/kg	0.25 U	0.2 J	0.16 J	1 U	0.25 U
HMX	mg/kg	0.5 U	0.5 U	0.5 U	2 U	0.5 U
Nitrobenzene	mg/kg	0.25 U	0.056 J	0.25 U	1 U	0.25 U
Nitrocellulose	mg/kg	3.1 J	1.2 J	2.2 =	9.2 J	2.1 =
Nitroglycerin	mg/kg	2.5 U	2.5 U	2.5 U	10 U	2.5 U
Nitroguanidine	mg/kg	0.25 U	0.25 U	0.25 U	0.25 UJ	0.25 U
RDX	mg/kg	0.5 U	0.5 U	0.5 U	2 U	0.5 U
Tetryl	mg/kg	0.65 U	0.65 U	0.65 U	2.6 U	0.65 U

Table 4-32. Results for Surface Soil Samples – Propellant and Explosive Constituents (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-4/4A and CA-6/6A LL1-154 LL10843 LL1ss-154-0843-SO 09/13/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-155 LL10844 LL1ss-155-0844-SO 09/13/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-156 LL10845 LL1ss-156-0845-SO 09/13/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-157 LL10846 LL1ss-157-0846-SO 09/13/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-158 LL10847 LL1ss-158-0847-SO 09/13/2000 0 - 1 Grab
1,3,5-Trinitrobenzene	mg/kg	0.25 U	0.25 U	2.5 U	150 U	0.25 U
1,3-Dinitrobenzene	mg/kg	0.25 U	0.25 U	2.5 U	150 U	0.25 U
2,4,6-Trinitrotoluene	mg/kg	1 =	0.11 J	4.6 =	4,800 =	0.75 =
2,4-Dinitrotoluene	mg/kg	0.25 U	0.25 U	2.5 U	150 U	0.25 U
2,6-Dinitrotoluene	mg/kg	0.25 U	0.25 U	2.5 U	150 U	0.25 U
2-Amino-4,6-dinitrotoluene	mg/kg	0.26 =	0.13 J	3 =	150 U	0.6 =
2-Nitrotoluene	mg/kg	0.25 U	0.25 U	2.5 U	150 U	0.25 U
3-Nitrotoluene	mg/kg	0.25 U	0.17 J	2.5 U	150 U	0.25 U
4-Amino-2,6-dinitrotoluene	mg/kg	0.51 U	0.25 U	4.4 =	880 U	0.68 =
4-Nitrotoluene	mg/kg	0.25 U	0.25 U	2.5 U	150 U	0.25 U
HMX	mg/kg	0.25 J	0.5 U	7.4 =	260 J	0.5 U
Nitrobenzene	mg/kg	0.25 U	0.25 U	0.59 J	150 U	0.25 U
Nitrocellulose	mg/kg	2.5 J	1.3 J	15.4 J	388 J	2 J
Nitroglycerin	mg/kg	2.5 U	2.5 U	25 U	1,500 U	2.5 U
Nitroguanidine	mg/kg	0.25 U	0.25 U	0.25 U	2.5 U	0.25 U
RDX	mg/kg	0.22 J	0.5 U	67 =	2,300 =	0.45 J
Tetryl	mg/kg	0.65 U	0.65 U	6.5 U	390 U	0.65 U

Table 4-32. Results for Surface Soil Samples – Propellant and Explosive Constituents (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-4/4A and CA-6/6A LL1-159 LL10849 LL1ss-159-0849-SO 09/14/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-160 LL10850 LL1ss-160-0850-SO 09/14/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-161 LL10851 LL1ss-161-0851-SO 09/14/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-162 LL10852 LL1ss-162-0852-SO 09/14/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-164 LL10855 LL1ss-164-0855-SO 09/12/2000 0 - 1 Grab
1,3,5-Trinitrobenzene	mg/kg	2.5 U	7.5 U	7.5 U	0.25 U	0.25 U
1,3-Dinitrobenzene	mg/kg	2.5 U	7.5 U	7.5 U	0.25 U	0.25 U
2,4,6-Trinitrotoluene	mg/kg	64 =	250 =	200 =	7.9 =	0.44 =
2,4-Dinitrotoluene	mg/kg	2.5 U	7.5 U	7.5 U	0.25 U	0.25 U
2,6-Dinitrotoluene	mg/kg	2.5 U	7.5 U	7.5 U	0.25 U	0.25 U
2-Amino-4,6-dinitrotoluene	mg/kg	5.2 =	5.8 J	7.5 U	0.54 =	0.25 U
2-Nitrotoluene	mg/kg	2.5 U	7.5 U	7.5 U	0.25 U	0.25 U
3-Nitrotoluene	mg/kg	2.5 U	7.5 U	7.5 U	0.25 U	0.25 U
4-Amino-2,6-dinitrotoluene	mg/kg	18 U	7.5 U	7.5 U	2.2 U	0.17 J
4-Nitrotoluene	mg/kg	2.5 U	7.5 U	7.5 U	0.25 U	0.25 U
HMX	mg/kg	5 U	15 U	15 U	0.5 U	0.5 U
Nitrobenzene	mg/kg	2.5 U	7.5 U	7.5 U	0.25 U	0.25 U
Nitrocellulose	mg/kg	8.5 J	32.7 J	18 J	3.2 J	1.6 J
Nitroglycerin	mg/kg	25 U	75 U	75 U	2.5 U	2.5 U
Nitroguanidine	mg/kg	0.25 UJ	0.25 UJ	0.25 UJ	0.25 UJ	0.25 U
RDX	mg/kg	5 U	15 U	15 U	0.5 U	0.5 U
Tetryl	mg/kg	6.5 U	20 U	20 U	0.65 U	0.65 U

Table 4-32. Results for Surface Soil Samples – Propellant and Explosive Constituents (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-4/4A and CA-6/6A LL1-167 LL10861 LL1ss-167-0861-SO 09/12/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-169 LL10869 LL1ss-169-0869-SO 09/18/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-170 LL10870 LL1ss-170-0870-SO 09/18/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-171 LL10872 LL1ss-171-0872-SO 09/18/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-171 LL1114 LL1ss-171-1114-SO 09/18/2000 0 - 1 Field Duplicate
1,3,5-Trinitrobenzene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
1,3-Dinitrobenzene	mg/kg	0.034 J	0.25 U	0.25 U	0.25 U	0.25 U
2,4,6-Trinitrotoluene	mg/kg	7.1 =	1.1 =	5.6 =	2.8 =	3.9 =
2,4-Dinitrotoluene	mg/kg	0.06 J	0.25 U	0.25 U	0.25 U	0.25 U
2,6-Dinitrotoluene	mg/kg	0.25 U	0.24 J	0.25 U	0.25 U	0.25 U
2-Amino-4,6-dinitrotoluene	mg/kg	0.56 =	0.72 =	1 =	0.74 =	0.75 =
2-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
3-Nitrotoluene	mg/kg	0.18 J	0.25 U	0.25 U	0.25 U	0.25 U
4-Amino-2,6-dinitrotoluene	mg/kg	2.6 U	0.82 =	2.2 U	1.3 U	1.7 U
4-Nitrotoluene	mg/kg	0.16 J	0.25 U	0.25 U	0.25 U	0.25 U
HMX	mg/kg	0.5 U	0.51 =	0.5 U	1.5 =	1.5 =
Nitrobenzene	mg/kg	0.065 J	0.12 J	0.25 U	0.25 U	0.25 U
Nitrocellulose	mg/kg	1.4 J	2.8 =	2.6 =	1.3 J	1.6 J
Nitroglycerin	mg/kg	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Nitroguanidine	mg/kg	0.25 U	0.25 U	0.25 U	0.25 UJ	0.25 UJ
RDX	mg/kg	0.5 U	0.32 J	0.5 U	0.98 =	1.7 =
Tetryl	mg/kg	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U

Table 4-32. Results for Surface Soil Samples – Propellant and Explosive Constituents (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-4/4A and CA-6/6A LL1-173 LL10874 LL1ss-173-0874-SO 09/18/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-174 LL10876 LL1ss-174-0876-SO 09/18/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-177 LL10880 LL1ss-177-0880-SO 09/18/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-178 LL10881 LL1ss-178-0881-SO 09/18/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-228 LL10946 LL1ss-228-0946-SO 09/14/2000 0 - 1 Grab
1,3,5-Trinitrobenzene	mg/kg	0.25 U	2.5 U	0.25 U	0.12 J	0.25 U
1,3-Dinitrobenzene	mg/kg	0.25 U	2.5 U	0.25 U	0.25 U	0.25 U
2,4,6-Trinitrotoluene	mg/kg	0.56 =	8.7 =	0.08 J	0.18 J	0.25 U
2,4-Dinitrotoluene	mg/kg	0.25 U	2.5 U	0.25 U	0.25 U	0.046 J
2,6-Dinitrotoluene	mg/kg	0.25 U	3.7 U	0.25 U	0.25 U	0.25 UJ
2-Amino-4,6-dinitrotoluene	mg/kg	0.13 J	2 J	0.25 U	0.25 U	0.25 UJ
2-Nitrotoluene	mg/kg	0.25 U	2.5 U	0.25 U	0.25 U	0.25 U
3-Nitrotoluene	mg/kg	0.25 U	2.5 U	0.25 U	0.25 U	0.25 U
4-Amino-2,6-dinitrotoluene	mg/kg	0.29 U	3.7 U	0.25 U	0.25 U	0.25 U
4-Nitrotoluene	mg/kg	0.25 U	2.5 U	0.25 U	0.25 U	0.25 UJ
HMX	mg/kg	0.5 U	6.9 =	0.5 U	0.45 J	0.5 U
Nitrobenzene	mg/kg	0.25 U	2.5 U	0.25 U	0.25 U	0.053 J
Nitrocellulose	mg/kg	1.3 J	9.1 =	0.93 J	1.6 J	4.5 =
Nitroglycerin	mg/kg	2.5 U	25 U	2.5 U	2.5 U	2.5 U
Nitroguanidine	mg/kg	0.25 U	0.25 UJ	0.25 UJ	0.25 U	0.25 U
RDX	mg/kg	0.5 U	50 =	0.5 U	0.5 U	0.5 U
Tetryl	mg/kg	0.65 U	6.5 U	0.65 U	0.65 U	0.65 U

Table 4-32. Results for Surface Soil Samples – Propellant and Explosive Constituents (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-4/4A and CA-6/6A LL1-264 LL10992 LL1ss-264-0992-SO 09/18/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-265 LL10993 LL1ss-265-0993-SO 09/18/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-266 LL10994 LL1ss-266-0994-SO 09/17/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-272 LL1000 LL1ss-272-1000-SO 09/25/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-276 LL1004 LL1ss-276-1004-SO 09/15/2000 0 - 1 Grab
1,3,5-Trinitrobenzene	mg/kg	0.25 U	10 U	0.25 U	0.25 U	0.25 U
1,3-Dinitrobenzene	mg/kg	0.25 U	10 U	0.25 U	0.25 U	0.25 U
2,4,6-Trinitrotoluene	mg/kg	0.052 J	300 =	0.44 =	0.15 J	0.25 U
2,4-Dinitrotoluene	mg/kg	0.25 U	10 U	0.25 U	0.25 U	0.068 J
2,6-Dinitrotoluene	mg/kg	0.25 U	10 U	0.25 U	0.25 U	0.25 U
2-Amino-4,6-dinitrotoluene	mg/kg	0.25 U	10 U	0.29 =	0.25 U	0.25 U
2-Nitrotoluene	mg/kg	0.25 U	10 U	0.25 U	0.25 U	0.25 U
3-Nitrotoluene	mg/kg	0.25 U	10 U	0.25 U	0.25 U	0.25 U
4-Amino-2,6-dinitrotoluene	mg/kg	0.25 U	10 U	0.44 =	0.25 U	0.25 U
4-Nitrotoluene	mg/kg	0.25 U	10 U	0.25 U	0.25 U	0.25 U
HMX	mg/kg	0.5 U	20 U	0.5 U	0.5 U	0.5 U
Nitrobenzene	mg/kg	0.25 U	10 U	0.25 U	0.25 U	0.25 U
Nitrocellulose	mg/kg	0.93 J	0.84 J	2 UJ	2 U	2 UJ
Nitroglycerin	mg/kg	2.5 U	100 U	2.5 U	2.5 U	2.5 U
Nitroguanidine	mg/kg	0.25 UJ	0.25 UJ	0.25 U	0.25 U	0.25 UJ
RDX	mg/kg	0.5 U	20 U	0.5 U	0.5 U	0.5 U
Tetryl	mg/kg	0.65 U	26 U	0.65 U	0.65 U	0.65 U

Table 4-32. Results for Surface Soil Samples – Propellant and Explosive Constituents (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-4/4A and CA-6/6A LL1-276 LL1107 LL1ss-276-1107-SO 09/15/2000 0 - 1 Field Duplicate	CB-4/4A and CA-6/6A LL1-279 LL1007 LL1ss-279-1007-SO 09/15/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-281 LL1009 LL1ss-281-1009-SO 09/15/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-324 LL1195 LL1ss-324-1195-SO 09/15/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-325 LL1197 LL1ss-325-1197-SO 09/17/2000 0 - 1 Grab
1,3,5-Trinitrobenzene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.16 J
1,3-Dinitrobenzene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2,4,6-Trinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	22 =
2,4-Dinitrotoluene	mg/kg	0.25 U	0.07 J	0.25 U	0.25 U	0.25 U
2,6-Dinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.12 J	0.29 U
2-Amino-4,6-dinitrotoluene	mg/kg	0.25 U	0.15 J	0.25 U	0.25 U	3.4 =
2-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.38 U
3-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
4-Amino-2,6-dinitrotoluene	mg/kg	0.25 U	0.14 J	0.25 U	0.13 J	5.9 =
4-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.26 U
HMX	mg/kg	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Nitrobenzene	mg/kg	0.25 U	0.25 U	0.048 J	0.25 U	0.25 U
Nitrocellulose	mg/kg	2 UJ	2 UJ	2 UJ	2 UJ	3.8 J
Nitroglycerin	mg/kg	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Nitroguanidine	mg/kg	0.25 UJ	0.25 UJ	0.25 UJ	0.25 UJ	0.25 U
RDX	mg/kg	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetryl	mg/kg	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U

Table 4-32. Results for Surface Soil Samples – Propellant and Explosive Constituents (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-4/4A and CA-6/6A LL1-327 LL1109 LL1ss-327-1109-SO 09/16/2000 0 - 1 Field Duplicate	CB-4/4A and CA-6/6A LL1-327 LL1199 LL1ss-327-1199-SO 09/16/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-331 LL1203 LL1ss-331-1203-SO 09/16/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-335 LL1207 LL1ss-335-1207-SO 09/16/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-337 LL1226 LL1ss-337-1226-SO 09/29/2000 0 - 1 Grab
1,3,5-Trinitrobenzene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
1,3-Dinitrobenzene	mg/kg	0.045 J	0.25 U	0.25 U	0.25 U	0.25 U
2,4,6-Trinitrotoluene	mg/kg	0.1 J	0.14 J	0.25 U	0.25 U	0.25 U
2,4-Dinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2,6-Dinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2-Amino-4,6-dinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
3-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
4-Amino-2,6-dinitrotoluene	mg/kg	0.25 U	0.19 J	0.25 U	0.25 U	0.25 U
4-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
HMX	mg/kg	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Nitrobenzene	mg/kg	0.12 J	0.16 J	0.25 U	0.25 U	0.25 U
Nitrocellulose	mg/kg	2 U	2 U	2 U	2 UJ	0.41 J
Nitroglycerin	mg/kg	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Nitroguanidine	mg/kg	0.25 U	0.25 U	0.25 U	0.25 UJ	0.25 U
RDX	mg/kg	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetryl	mg/kg	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U

Table 4-32. Results for Surface Soil Samples – Propellant and Explosive Constituents (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-4/4A and CA-6/6A LL1-339 LL1241 LL1ss-339-1241-SO 09/29/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-340 LL1328 LL1ss-340-1328-SO 10/02/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-341 LL1329 LL1ss-341-1329-SO 10/02/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-342 LL1243 LL1ss-342-1243-SO 09/29/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-343 LL1298 LL1ss-343-1298-SO 09/29/2000 0 - 1 Grab
1,3,5-Trinitrobenzene	mg/kg	0.25 U	50 U	3.8 U	1.5 U	5 U
1,3-Dinitrobenzene	mg/kg	0.25 U	50 U	3.8 U	1.5 U	5 U
2,4,6-Trinitrotoluene	mg/kg	0.52 =	990 =	83 =	39 =	150 =
2,4-Dinitrotoluene	mg/kg	0.25 U	50 U	3.8 U	1.5 U	5 U
2,6-Dinitrotoluene	mg/kg	0.25 U	50 U	3.8 U	1.5 U	5 U
2-Amino-4,6-dinitrotoluene	mg/kg	0.51 =	50 U	5.4 =	1.5 U	5 U
2-Nitrotoluene	mg/kg	0.25 U	50 U	3.8 U	1.5 U	5 U
3-Nitrotoluene	mg/kg	0.25 U	50 U	3.8 U	1.5 U	5 U
4-Amino-2,6-dinitrotoluene	mg/kg	0.43 =	50 U	19 U	1.5 U	5 U
4-Nitrotoluene	mg/kg	0.25 U	50 U	3.8 U	1.5 U	5 U
HMX	mg/kg	0.5 U	100 U	7.5 U	3 U	10 U
Nitrobenzene	mg/kg	0.25 U	50 U	3.8 U	1.5 U	5 U
Nitrocellulose	mg/kg	2.1 =	40 U	3.6 =	53.2 =	2 U
Nitroglycerin	mg/kg	2.5 U	500 U	38 U	15 U	50 U
Nitroguanidine	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
RDX	mg/kg	0.5 U	100 U	7.5 U	3 U	10 U
Tetryl	mg/kg	0.65 U	130 U	9.8 U	3.9 U	13 U

Table 4-32. Results for Surface Soil Samples – Propellant and Explosive Constituents (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-4/4A and CA-6/6A LL1-344 LL1300 LL1ss-344-1300-SO 09/29/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-345 LL1130 LL1ss-345-1130-SO 09/29/2000 0 - 1 Field Duplicate	CB-4/4A and CA-6/6A LL1-345 LL1242 LL1ss-345-1242-SO 09/29/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-349 LL1331 LL1ss-349-1331-SO 10/02/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-354 LL1303 LL1ss-354-1303-SO 09/29/2000 0 - 1 Grab
1,3,5-Trinitrobenzene	mg/kg	0.75 U	0.25 U	0.25 U	0.25 U	0.5 U
1,3-Dinitrobenzene	mg/kg	0.75 U	0.25 U	0.25 U	0.25 U	0.5 U
2,4,6-Trinitrotoluene	mg/kg	13 =	0.25 U	0.25 U	0.25 U	10 =
2,4-Dinitrotoluene	mg/kg	0.75 U	0.25 U	0.25 U	0.25 U	0.5 U
2,6-Dinitrotoluene	mg/kg	0.75 U	0.25 U	0.25 U	0.25 U	0.26 J
2-Amino-4,6-dinitrotoluene	mg/kg	3.2 =	0.25 U	0.25 U	0.25 U	0.62 =
2-Nitrotoluene	mg/kg	0.75 U	0.25 U	0.25 U	0.25 U	0.5 U
3-Nitrotoluene	mg/kg	0.75 U	0.25 U	0.25 U	0.25 U	0.5 U
4-Amino-2,6-dinitrotoluene	mg/kg	5.9 =	0.25 U	0.25 U	0.25 U	2.1 U
4-Nitrotoluene	mg/kg	0.75 U	0.25 U	0.25 U	0.25 U	0.5 U
HMX	mg/kg	1.5 U	0.5 U	0.5 U	0.5 U	1.2 =
Nitrobenzene	mg/kg	0.75 U	0.25 U	0.25 U	0.25 U	0.5 U
Nitrocellulose	mg/kg	8 =	2 U	0.3 J	2 U	2.3 U
Nitroglycerin	mg/kg	7.5 U	2.5 U	2.5 U	2.5 U	5 U
Nitroguanidine	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
RDX	mg/kg	1.5 U	0.5 U	0.5 U	0.5 U	3.5 =
Tetryl	mg/kg	2 UJ	0.65 U	0.65 U	0.65 U	1.3 UJ

Table 4-32. Results for Surface Soil Samples – Propellant and Explosive Constituents (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-4/4A and CA-6/6A LL1-355 LL1302 LL1ss-355-1302-SO 09/29/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-356 LL1312 LL1ss-356-1312-SO 09/30/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-357 LL1313 LL1ss-357-1313-SO 09/30/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-358 LL1129 LL1ss-358-1129-SO 09/30/2000 0 - 1 Field Duplicate	CB-4/4A and CA-6/6A LL1-358 LL1314 LL1ss-358-1314-SO 09/30/2000 0 - 1 Grab
1,3,5-Trinitrobenzene	mg/kg	0.93 =	0.25 U	110 J	0.25 U	0.25 U
1,3-Dinitrobenzene	mg/kg	0.081 J	0.25 U	110 J	0.25 U	0.25 U
2,4,6-Trinitrotoluene	mg/kg	8.2 =	0.22 J	4,800 =	0.25 U	0.25 U
2,4-Dinitrotoluene	mg/kg	0.21 J	0.25 U	250 U	0.25 U	0.25 U
2,6-Dinitrotoluene	mg/kg	1.2 U	0.25 U	250 U	0.25 U	0.25 U
2-Amino-4,6-dinitrotoluene	mg/kg	2.4 =	0.25 U	250 U	0.25 U	0.25 U
2-Nitrotoluene	mg/kg	0.25 U	0.25 U	250 U	0.25 U	0.25 U
3-Nitrotoluene	mg/kg	0.25 U	0.25 U	250 U	0.25 U	0.25 U
4-Amino-2,6-dinitrotoluene	mg/kg	4 =	0.14 J	250 U	0.25 U	0.25 U
4-Nitrotoluene	mg/kg	0.11 J	0.25 U	250 U	0.25 U	0.25 U
HMX	mg/kg	1.2 =	0.5 U	500 U	0.5 U	0.5 U
Nitrobenzene	mg/kg	0.25 U	0.25 U	250 U	0.25 U	0.25 U
Nitrocellulose	mg/kg	2.6 U	2 U	42.2 =	2 U	2 U
Nitroglycerin	mg/kg	7.4 =	2.5 U	2,500 U	2.5 U	2.5 U
Nitroguanidine	mg/kg	0.25 U	0.25 U	12 U	0.25 U	0.25 U
RDX	mg/kg	6.4 =	0.36 J	1,200 =	0.5 U	0.5 U
Tetryl	mg/kg	0.65 UJ	0.65 U	650 U	0.65 U	0.65 U

Table 4-32. Results for Surface Soil Samples – Propellant and Explosive Constituents (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-4/4A and CA-6/6A LL1-360 LL1316 LL1ss-360-1316-SO 09/30/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-361 LL1332 LL1ss-361-1332-SO 10/02/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-362 LL1281 LL1ss-362-1281-SO 10/02/2000 0 - 1 Field Duplicate	CB-4/4A and CA-6/6A LL1-362 LL1333 LL1ss-362-1333-SO 10/02/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-365 LL1238 LL1ss-365-1238-SO 09/29/2000 0 - 1 Grab
1,3,5-Trinitrobenzene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
1,3-Dinitrobenzene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2,4,6-Trinitrotoluene	mg/kg	6.6 =	0.25 U	0.25 U	0.25 U	0.25 U
2,4-Dinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2,6-Dinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2-Amino-4,6-dinitrotoluene	mg/kg	0.34 =	0.25 U	0.25 U	0.25 U	0.25 U
2-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
3-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
4-Amino-2,6-dinitrotoluene	mg/kg	2 U	0.25 U	0.25 U	0.25 U	0.25 U
4-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
HMX	mg/kg	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Nitrobenzene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Nitrocellulose	mg/kg	2 U	2 U	2 U	2 U	0.54 J
Nitroglycerin	mg/kg	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Nitroguanidine	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
RDX	mg/kg	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetryl	mg/kg	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U

Table 4-32. Results for Surface Soil Samples – Propellant and Explosive Constituents (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-4/4A and CA-6/6A LL1-375 LL1131 LL1ss-375-1131-SO 09/28/2000 0 - 1 Field Duplicate	CB-4/4A and CA-6/6A LL1-375 LL1223 LL1ss-375-1223-SO 09/28/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-379 LL1221 LL1ss-379-1221-SO 09/28/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-406 LL1249 LL1ss-406-1249-SO 10/01/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-406 LL1280 LL1ss-406-1280-SO 10/01/2000 0 - 1 Field Duplicate
1,3,5-Trinitrobenzene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	7.5 U
1,3-Dinitrobenzene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	7.5 U
2,4,6-Trinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	240 =
2,4-Dinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	7.5 U
2,6-Dinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	7.5 U
2-Amino-4,6-dinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	4.5 J
2-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	7.5 U
3-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	7.5 U
4-Amino-2,6-dinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	7.5 U
4-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	7.5 U
HMX	mg/kg	0.5 U	0.5 U	0.5 U	0.5 U	15 U
Nitrobenzene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	7.5 U
Nitrocellulose	mg/kg	2 U	2 U	2 U	2 U	4.4 =
Nitroglycerin	mg/kg	2.5 U	2.5 U	2.5 U	2.5 U	75 U
Nitroguanidine	mg/kg	0.25 U	0.25 U	0.25 U	0.035 J	0.25 U
RDX	mg/kg	0.5 U	0.5 U	0.5 U	0.5 U	15 U
Tetryl	mg/kg	0.65 U	0.65 U	0.65 U	0.65 U	20 U

Table 4-32. Results for Surface Soil Samples – Propellant and Explosive Constituents (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-4/4A and CA-6/6A LL1-407 LL1248 LL1ss-407-1248-SO 10/01/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-417 LL1347 LL1ss-417-1347-SO 10/03/2000 0 - 1 Grab
1,3,5-Trinitrobenzene	mg/kg	7.5 U	0.25 U
1,3-Dinitrobenzene	mg/kg	7.5 U	0.25 U
2,4,6-Trinitrotoluene	mg/kg	180 =	0.25 U
2,4-Dinitrotoluene	mg/kg	7.5 U	0.25 U
2,6-Dinitrotoluene	mg/kg	7.5 U	0.25 U
2-Amino-4,6-dinitrotoluene	mg/kg	6.9 J	0.25 U
2-Nitrotoluene	mg/kg	7.5 U	0.25 U
3-Nitrotoluene	mg/kg	7.5 U	0.25 U
4-Amino-2,6-dinitrotoluene	mg/kg	34 U	0.25 U
4-Nitrotoluene	mg/kg	7.5 U	0.25 U
HMX	mg/kg	15 U	0.5 U
Nitrobenzene	mg/kg	7.5 U	0.25 U
Nitrocellulose	mg/kg	5 =	2 U
Nitroglycerin	mg/kg	75 U	2.5 U
Nitroguanidine	mg/kg	2.5 U	0.25 U
RDX	mg/kg	15 U	0.5 U
Tetryl	mg/kg	20 U	0.65 U

Table 4-32. Results for Surface Soil Samples – Propellant and Explosive Constituents (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-13 and CB-10 LL1-034 LL10766 LL1ss-034-0766-SO 09/27/2000 0 - 1 Grab	CB-13 and CB-10 LL1-035 LL10769 LL1ss-035-0769-SO 09/27/2000 0 - 1 Grab	CB-13 and CB-10 LL1-037 LL10771 LL1ss-037-0771-SO 09/27/2000 0 - 1 Grab	CB-13 and CB-10 LL1-107 LL10752 LL1ss-107-0752-SO 09/26/2000 0 - 1 Grab	CB-13 and CB-10 LL1-108 LL10753 LL1ss-108-0753-SO 09/26/2000 0 - 1 Grab
1,3,5-Trinitrobenzene	mg/kg	12 U	0.25 U	0.25 U	0.25 U	0.25 U
1,3-Dinitrobenzene	mg/kg	12 U	0.25 U	0.25 U	0.25 U	0.25 U
2,4,6-Trinitrotoluene	mg/kg	230 =	0.38 =	0.06 J	0.072 J	0.25 U
2,4-Dinitrotoluene	mg/kg	12 U	0.25 U	0.25 U	0.21 J	0.46 =
2,6-Dinitrotoluene	mg/kg	12 U	0.13 J	0.25 U	0.25 U	0.25 U
2-Amino-4,6-dinitrotoluene	mg/kg	8.7 J	0.26 =	0.25 U	0.25 U	0.25 U
2-Nitrotoluene	mg/kg	12 U	0.25 U	0.25 U	0.25 U	0.25 U
3-Nitrotoluene	mg/kg	12 U	0.25 U	0.25 U	0.25 U	0.25 U
4-Amino-2,6-dinitrotoluene	mg/kg	12 U	0.34 =	0.25 U	0.25 U	0.25 U
4-Nitrotoluene	mg/kg	12 U	0.25 U	0.25 U	0.25 U	0.25 U
HMX	mg/kg	25 U	0.5 U	0.5 U	0.5 U	0.5 U
Nitrobenzene	mg/kg	12 U	0.25 U	0.25 U	0.25 U	0.25 U
Nitrocellulose	mg/kg	6.5 =	2.2 U	2 U	28.8 =	13.2 =
Nitroglycerin	mg/kg	120 U	2.5 U	2.5 U	2.5 U	2.5 U
Nitroguanidine	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
RDX	mg/kg	25 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetryl	mg/kg	32 U	0.65 U	0.65 U	0.65 U	0.65 U

Table 4-32. Results for Surface Soil Samples – Propellant and Explosive Constituents (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-13 and CB-10 LL1-108 LL1120 LL1ss-108-1120-SO 09/26/2000 0 - 1 Field Duplicate	CB-13 and CB-10 LL1-109 LL10755 LL1ss-109-0755-SO 09/26/2000 0 - 1 Grab	CB-13 and CB-10 LL1-110 LL10756 LL1ss-110-0756-SO 09/26/2000 0 - 1 Grab	CB-13 and CB-10 LL1-111 LL10757 LL1ss-111-0757-SO 09/26/2000 0 - 1 Grab	CB-13 and CB-10 LL1-114 LL10760 LL1ss-114-0760-SO 09/26/2000 0 - 1 Grab
1,3,5-Trinitrobenzene	mg/kg	0.25 U	0.5 U	0.25 U	0.25 U	0.25 U
1,3-Dinitrobenzene	mg/kg	0.25 U	0.5 U	0.25 U	0.25 U	0.25 U
2,4,6-Trinitrotoluene	mg/kg	0.25 U	0.11 J	0.25 U	0.25 U	0.25 U
2,4-Dinitrotoluene	mg/kg	0.33 =	9.3 =	0.48 =	0.82 =	0.25 U
2,6-Dinitrotoluene	mg/kg	0.25 U	0.36 J	0.25 U	0.25 U	0.25 U
2-Amino-4,6-dinitrotoluene	mg/kg	0.25 U	0.5 U	0.25 U	0.25 U	0.25 U
2-Nitrotoluene	mg/kg	0.25 U	0.5 U	0.25 U	0.25 U	0.25 U
3-Nitrotoluene	mg/kg	0.25 U	0.5 U	0.25 U	0.25 U	0.25 U
4-Amino-2,6-dinitrotoluene	mg/kg	0.25 U	0.5 U	0.25 U	0.25 U	0.25 U
4-Nitrotoluene	mg/kg	0.25 U	0.5 U	0.25 U	0.2 J	0.25 U
HMX	mg/kg	0.5 U	0.78 J	0.5 U	0.5 U	0.5 U
Nitrobenzene	mg/kg	0.25 U	0.5 U	0.25 U	0.25 U	0.25 U
Nitrocellulose	mg/kg	9.3 =	103 =	22.8 =	46.5 =	2 U
Nitroglycerin	mg/kg	2.5 U	5 U	2.5 U	2.5 U	2.5 U
Nitroguanidine	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
RDX	mg/kg	0.5 U	1 U	0.5 U	0.5 U	0.5 U
Tetryl	mg/kg	0.65 U	1.3 U	0.65 U	0.65 U	0.65 U

Table 4-32. Results for Surface Soil Samples – Propellant and Explosive Constituents (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-13 and CB-10 LL1-120 LL10773 LL1ss-120-0773-SO 09/27/2000 0 - 1 Grab	CB-13 and CB-10 LL1-121 LL1104 LL1ss-121-1104-SO 09/27/2000 0 - 1 Grab	CB-13 and CB-10 LL1-125 LL10777 LL1ss-125-0777-SO 09/27/2000 0 - 1 Grab	CB-13 and CB-10 LL1-125 LL1122 LL1ss-125-1122-SO 09/27/2000 0 - 1 Field Duplicate	CB-13 and CB-10 LL1-126 LL10779 LL1ss-126-0779-SO 09/27/2000 0 - 1 Grab
1,3,5-Trinitrobenzene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
1,3-Dinitrobenzene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2,4,6-Trinitrotoluene	mg/kg	2 =	0.13 J	0.25 U	0.25 U	0.51 =
2,4-Dinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2,6-Dinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.11 J
2-Amino-4,6-dinitrotoluene	mg/kg	1.1 =	0.091 J	0.25 U	0.25 U	0.37 =
2-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
3-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
4-Amino-2,6-dinitrotoluene	mg/kg	1.9 =	0.25 U	0.25 U	0.25 U	0.49 =
4-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
HMX	mg/kg	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Nitrobenzene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Nitrocellulose	mg/kg	2.3 U	2 U	2 U	2 U	2.5 U
Nitroglycerin	mg/kg	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Nitroguanidine	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
RDX	mg/kg	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetryl	mg/kg	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U

Table 4-32. Results for Surface Soil Samples – Propellant and Explosive Constituents (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-13 and CB-10 LL1-127 LL10780 LL1ss-127-0780-SO 09/27/2000 0 - 1 Grab	CB-13 and CB-10 LL1-128 LL10781 LL1ss-128-0781-SO 09/27/2000 0 - 1 Grab	CB-13 and CB-10 LL1-129 LL10782 LL1ss-129-0782-SO 09/27/2000 0 - 1 Grab	CB-13 and CB-10 LL1-129 LL1116 LL1ss-129-1116-SO 09/27/2000 0 - 1 Field Duplicate	CB-13 and CB-10 LL1-130 LL10783 LL1ss-130-0783-SO 09/27/2000 0 - 1 Grab
1,3,5-Trinitrobenzene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
1,3-Dinitrobenzene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2,4,6-Trinitrotoluene	mg/kg	4.7 =	0.071 J	0.35 =	0.46 =	0.055 J
2,4-Dinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2,6-Dinitrotoluene	mg/kg	0.2 J	0.25 U	0.25 U	0.25 U	0.25 U
2-Amino-4,6-dinitrotoluene	mg/kg	0.66 =	0.25 U	0.25 U	0.16 J	0.25 U
2-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
3-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
4-Amino-2,6-dinitrotoluene	mg/kg	1.5 U	0.25 U	0.2 J	0.31 =	0.25 U
4-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
HMX	mg/kg	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Nitrobenzene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Nitrocellulose	mg/kg	2.9 U	2 U	3 U	2.6 U	2 U
Nitroglycerin	mg/kg	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Nitroguanidine	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
RDX	mg/kg	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetryl	mg/kg	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U

Table 4-32. Results for Surface Soil Samples – Propellant and Explosive Constituents (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-13 and CB-10 LL1-130 LL1121 LL1ss-130-1121-SO 09/27/2000 0 - 1 Field Duplicate	CB-13 and CB-10 LL1-131 LL10784 LL1ss-131-0784-SO 09/28/2000 0 - 1 Grab	CB-13 and CB-10 LL1-132 LL10785 LL1ss-132-0785-SO 09/28/2000 0 - 1 Grab	CB-13 and CB-10 LL1-133 LL10786 LL1ss-133-0786-SO 09/28/2000 0 - 1 Grab	CB-13 and CB-10 LL1-134 LL10787 LL1ss-134-0787-SO 09/28/2000 0 - 1 Grab
1,3,5-Trinitrobenzene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
1,3-Dinitrobenzene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2,4,6-Trinitrotoluene	mg/kg	0.25 U	0.25 U	0.055 J	0.25 U	0.095 J
2,4-Dinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2,6-Dinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2-Amino-4,6-dinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
3-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
4-Amino-2,6-dinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
4-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
HMX	mg/kg	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Nitrobenzene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Nitrocellulose	mg/kg	2 U	2 U	2 U	2 U	2 U
Nitroglycerin	mg/kg	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Nitroguanidine	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
RDX	mg/kg	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetryl	mg/kg	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U

Table 4-32. Results for Surface Soil Samples – Propellant and Explosive Constituents (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-13 and CB-10 LL1-368 LL1128 LL1ss-368-1128-SO 09/28/2000 0 - 1 Field Duplicate	CB-13 and CB-10 LL1-368 LL1258 LL1ss-368-1258-SO 09/28/2000 0 - 1 Grab	CB-13 and CB-10 LL1-371 LL1220 LL1ss-371-1220-SO 09/28/2000 0 - 1 Grab	CB-13 and CB-10 LL1-372 LL1256 LL1ss-372-1256-SO 09/28/2000 0 - 0 Grab	CB-13 and CB-10 LL1-413 LL1323 LL1ss-413-1323-SO 09/30/2000 0 - 1 Grab
1,3,5-Trinitrobenzene	mg/kg	0.25 U	0.25 U	1 U	1 U	0.25 U
1,3-Dinitrobenzene	mg/kg	0.25 U	0.25 U	1 U	1 U	0.25 U
2,4,6-Trinitrotoluene	mg/kg	0.25 U	0.074 J	2.2 =	22 =	0.25 U
2,4-Dinitrotoluene	mg/kg	0.25 U	0.25 U	1 U	1 U	0.25 U
2,6-Dinitrotoluene	mg/kg	0.25 U	0.25 U	1 U	0.6 J	0.25 U
2-Amino-4,6-dinitrotoluene	mg/kg	0.14 J	0.13 J	1.8 =	2 =	0.25 U
2-Nitrotoluene	mg/kg	0.25 U	0.25 U	1 U	1 U	0.25 U
3-Nitrotoluene	mg/kg	0.25 U	0.25 U	1 U	1 U	0.25 U
4-Amino-2,6-dinitrotoluene	mg/kg	0.25 U	0.25 U	1.8 =	3.2 U	0.25 U
4-Nitrotoluene	mg/kg	0.25 U	0.25 U	1 U	1 U	0.25 U
HMX	mg/kg	0.5 U	0.5 U	2.2 =	2 U	0.5 U
Nitrobenzene	mg/kg	0.25 U	0.25 U	1 U	1 U	0.25 U
Nitrocellulose	mg/kg	2 U	2 U	19.1 =	21.5 =	2 U
Nitroglycerin	mg/kg	2.5 U	2.5 U	10 U	10 U	2.5 U
Nitroguanidine	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
RDX	mg/kg	0.5 U	0.5 U	27 =	2 U	0.5 U
Tetryl	mg/kg	0.65 U	0.65 U	2.6 U	2.6 U	0.65 U

Table 4-32. Results for Surface Soil Samples – Propellant and Explosive Constituents (continued)

Location		CB-13 and CB-10	CB-14, CB-17, and CB-15	CB-14, CB-17, and CB-15	CB-14, CB-17, and CB-15	CB-14, CB-17, and CB-15
Station		LL1-415	LL1-087	LL1-088	LL1-088	LL1-099
Sample ID		LL1335	LL10723	LL10724	LL1117	LL10740
Customer ID		LL1ss-415-1335-SO	LL1ss-087-0723-SO	LL1ss-088-0724-SO	LL1ss-088-1117-SO	LL1ss-099-0740-SO
Date		10/02/2000	09/25/2000	09/25/2000	09/25/2000	09/26/2000
Depth (ft)		0 - 1	0 - 1	0 - 1	0 - 1	0 - 1
Field Type		Grab	Grab	Grab	Field Duplicate	Grab
Analyte	Units					
1,3,5-Trinitrobenzene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	1 U
1,3-Dinitrobenzene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	1 U
2,4,6-Trinitrotoluene	mg/kg	0.25 U	0.37 =	0.25 U	0.25 U	4.5 =
2,4-Dinitrotoluene	mg/kg	0.25 U	0.38 =	0.25 U	0.19 J	0.53 J
2,6-Dinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	1 U
2-Amino-4,6-dinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	1 U
2-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	1 U
3-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	1 U
4-Amino-2,6-dinitrotoluene	mg/kg	0.25 U	0.14 J	0.25 U	0.25 U	0.62 J
4-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	1 U
HMX	mg/kg	0.5 U	0.32 J	0.5 U	0.5 U	2.7 =
Nitrobenzene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	1 U
Nitrocellulose	mg/kg	2 U	49.5 =	2 U	2 U	90 =
Nitroglycerin	mg/kg	2.5 U	2.5 U	2.5 U	2.5 U	95 U
Nitroguanidine	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
RDX	mg/kg	0.5 U	0.5 U	0.5 U	0.5 U	34 =
Tetryl	mg/kg	0.65 U	0.65 U	0.65 U	0.65 U	2.6 U

Table 4-32. Results for Surface Soil Samples – Propellant and Explosive Constituents (continued)

Location		CB-14, CB-17, and CB-15	CB-14, CB-17, and CB-15	CD-3/CB-801	CD-3/CB-801	CD-3/CB-801
Station		LL1-099	LL1-402	LL1-027	LL1-179	LL1-180
Sample ID		LL1118	LL1318	LL10882	LL10884	LL10885
Customer ID		LL1ss-099-1118-SO	LL1ss-402-1318-SO	LL1ss-027-0882-SO	LL1ss-179-0884-SO	LL1ss-180-0885-SO
Date		09/26/2000	09/30/2000	09/17/2000	09/17/2000	09/17/2000
Depth (ft)		0 - 1	0 - 1	0 - 1	0 - 1	0 - 1
Field Type		Field Duplicate	Grab	Grab	Grab	Grab
Analyte	Units					
1,3,5-Trinitrobenzene	mg/kg	0.75 U	0.25 U	0.25 U	0.25 U	0.25 U
1,3-Dinitrobenzene	mg/kg	0.75 U	0.25 U	0.25 U	0.25 U	0.25 U
2,4,6-Trinitrotoluene	mg/kg	0.19 J	0.25 U	0.25 U	0.25 U	0.25 U
2,4-Dinitrotoluene	mg/kg	0.22 J	0.25 U	0.25 U	0.25 U	0.25 U
2,6-Dinitrotoluene	mg/kg	0.75 U	0.25 U	0.25 U	0.25 U	0.25 U
2-Amino-4,6-dinitrotoluene	mg/kg	0.75 U	0.25 U	0.25 U	0.25 U	0.25 U
2-Nitrotoluene	mg/kg	0.75 U	0.25 U	0.25 U	0.25 U	0.25 U
3-Nitrotoluene	mg/kg	0.75 U	0.25 U	0.25 U	0.25 U	0.25 U
4-Amino-2,6-dinitrotoluene	mg/kg	0.75 U	0.25 U	0.25 U	0.25 U	0.25 U
4-Nitrotoluene	mg/kg	0.75 U	0.25 U	0.25 U	0.25 U	0.25 U
HMX	mg/kg	2.4 =	0.5 U	0.5 U	0.5 U	0.5 U
Nitrobenzene	mg/kg	0.75 U	0.25 U	0.25 U	0.25 U	0.25 U
Nitrocellulose	mg/kg	512 =	2 U	2 UJ	2 U	2 U
Nitroglycerin	mg/kg	7.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Nitroguanidine	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
RDX	mg/kg	21 =	0.5 U	0.5 U	0.5 U	0.5 U
Tetryl	mg/kg	2 U	0.65 U	0.65 U	0.65 U	0.65 U

Table 4-32. Results for Surface Soil Samples – Propellant and Explosive Constituents (continued)

Location		CD-3/CB-801	CD-3/CB-801	CD-3/CB-801	CD-3/CB-801	CD-3/CB-801
Station		LL1-182	LL1-184	LL1-185	LL1-186	LL1-186
Sample ID		LL10888	LL10890	LL10891	LL10893	LL1110
Customer ID		LL1ss-182-0888-SO	LL1ss-184-0890-SO	LL1ss-185-0891-SO	LL1ss-186-0893-SO	LL1ss-186-1110-SO
Date		09/17/2000	09/18/2000	09/18/2000	09/17/2000	09/17/2000
Depth (ft)		0 - 1	0 - 1	0 - 1	0 - 1	0 - 1
Field Type		Grab	Grab	Grab	Grab	Field Duplicate
Analyte	Units					
1,3,5-Trinitrobenzene	mg/kg	0.25 U	0.25 U	0.25 U	0.11 J	0.25 U
1,3-Dinitrobenzene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2,4,6-Trinitrotoluene	mg/kg	0.25 U	0.11 J	0.33 =	0.25 U	0.25 U
2,4-Dinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2,6-Dinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2-Amino-4,6-dinitrotoluene	mg/kg	0.25 U	0.25 U	0.097 J	0.25 U	0.25 U
2-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
3-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.18 J
4-Amino-2,6-dinitrotoluene	mg/kg	0.25 U	0.1 J	0.17 J	0.25 U	0.25 U
4-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
HMX	mg/kg	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Nitrobenzene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Nitrocellulose	mg/kg	2 UJ	14.9 =	2.2 =	2 U	2 U
Nitroglycerin	mg/kg	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Nitroguanidine	mg/kg	0.25 U	0.25 UJ	0.25 U	0.25 UJ	0.25 U
RDX	mg/kg	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetryl	mg/kg	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U

Table 4-32. Results for Surface Soil Samples – Propellant and Explosive Constituents (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CD-3/CB-801 LL1-385 LL1237 LL1ss-385-1237-SO 09/28/2000 0 - 1 Grab	CD-3/CB-801 LL1-385 LL1278 LL1ss-385-1278-SO 09/28/2000 0 - 1 Field Duplicate	CD-3/CB-801 LL1-386 LL1224 LL1ss-386-1224-SO 09/28/2000 0 - 1 Grab	CD-3/CB-801 LL1-387 LL1251 LL1ss-387-1251-SO 09/29/2000 0 - 1 Grab	CD-3/CB-801 LL1-388 LL1306 LL1ss-388-1306-SO 09/29/2000 0 - 1 Grab
1,3,5-Trinitrobenzene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.098 J
1,3-Dinitrobenzene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2,4,6-Trinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.1 J	1.2 =
2,4-Dinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2,6-Dinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2-Amino-4,6-dinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.22 J
3-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
4-Amino-2,6-dinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.23 J
4-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
HMX	mg/kg	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Nitrobenzene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.095 J
Nitrocellulose	mg/kg	2 U	2 U	2.4 =	0.52 J	2.4 U
Nitroglycerin	mg/kg	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Nitroguanidine	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
RDX	mg/kg	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetryl	mg/kg	0.65 U	0.65 U	0.65 U	0.65 U	0.65 UJ

Table 4-32. Results for Surface Soil Samples – Propellant and Explosive Constituents (continued)

Location		CD-3/CB-801	CD-3/CB-801	CD-3/CB-801	Change Houses (CB-12, -23, -8, -22)	Change Houses (CB-12, -23, -8, -22)
Station		LL1-389	LL1-409	LL1-413	CB08-01	CB08-02
Sample ID		LL1307	LL1209	LL1323	LL0722	LL0723
Customer ID		LL1ss-389-1307-SO	LL1ss-409-1209-SO	LL1ss-413-1323-SO	LL1ss-08-01-0722-SO	LL1ss-08-02-0723-SO
Date		09/29/2000	09/29/2000	09/30/2000	11/04/1999	11/04/1999
Depth (ft)		0 - 1	0 - 1	0 - 1	0 - 1	0 - 1
Field Type		Grab	Grab	Grab	Grab	Grab
Analyte	Units					
1,3,5-Trinitrobenzene	mg/kg	0.12 J	0.25 U	0.25 U	0.25 U	0.25 U
1,3-Dinitrobenzene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2,4,6-Trinitrotoluene	mg/kg	0.08 J	0.17 J	0.25 U	0.25 U	0.25 U
2,4-Dinitrotoluene	mg/kg	0.15 J	0.25 U	0.25 U	0.25 U	0.25 U
2,6-Dinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2-Amino-4,6-dinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U		
2-Nitrotoluene	mg/kg	0.64 U	0.25 U	0.25 U	0.25 U	0.25 U
3-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
4-Amino-2,6-dinitrotoluene	mg/kg	0.16 J	0.091 J	0.25 U		
4-Nitrotoluene	mg/kg	0.38 U	0.25 U	0.25 U	0.25 U	0.25 U
HMX	mg/kg	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Nitrobenzene	mg/kg	0.23 J	0.11 J	0.25 U	0.25 U	0.25 U
Nitrocellulose	mg/kg	5.6 =	2 U	2 U		
Nitroglycerin	mg/kg	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Nitroguanidine	mg/kg	0.25 U	0.25 U	0.25 U		
RDX	mg/kg	0.5 U	0.29 J	0.5 U	0.5 U	0.5 U
Tetryl	mg/kg	0.65 UJ	0.65 UJ	0.65 U	0.65 U	0.65 U

Table 4-32. Results for Surface Soil Samples – Propellant and Explosive Constituents (continued)

Location		Change Houses (CB-12, -23, -8, -22)	Change Houses (CB-12, -23, -8, -22)	Change Houses CB-12, -23, -8, -22)	Change Houses (CB-12, -23, -8, -22)	Change Houses (CB-12, -23, -8, -22)
Station		CB08-03	CB12-01	CB12-02	CB12-03	CB12-04
Sample ID		LL0724	LL0725	LL0726	LL0727	LL0728
Customer ID		LL1ss-08-03-0724-SO	LL1ss-12-01-0725-SO	LL1ss-12-02-0726-SO	LL1ss-12-03-0727-SO	LL1ss-12-04-0728-SO
Date		11/04/1999	11/04/1999	11/04/1999	11/04/1999	11/04/1999
Depth (ft)		0 - 1	0 - 1	0 - 1	0 - 1	0 - 1
Field Type		Grab	Grab	Grab	Grab	Grab
Analyte	Units					
1,3,5-Trinitrobenzene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
1,3-Dinitrobenzene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2,4,6-Trinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2,4-Dinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2,6-Dinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2-Amino-4,6-dinitrotoluene	mg/kg					
2-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
3-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
4-Amino-2,6-dinitrotoluene	mg/kg					
4-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
HMX	mg/kg	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Nitrobenzene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Nitrocellulose	mg/kg					
Nitroglycerin	mg/kg	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Nitroguanidine	mg/kg					
RDX	mg/kg	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetryl	mg/kg	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U

Table 4-32. Results for Surface Soil Samples – Propellant and Explosive Constituents (continued)

Location		Change Houses (CB-12, -23, -8, -22)	Change Houses (CB-12, -23, -8, -22)	Change Houses (CB-12, -23, -8, -22)	Change Houses (CB-12, -23, -8, -22)	Change Houses (CB-12, -23, -8, -22)
Station		CB22-01	CB22-02	CB22-03	CB22-04	CB23-01
Sample ID		LL0729	LL0730	LL0731	LL0732	LL0733
Customer ID		LL1ss-22-01-0729-SO	LL1ss-22-02-0730-SO	LL1ss-22-03-0731-SO	LL1ss-22-04-0732-SO	LL1ss-23-01-0733-SO
Date		11/04/1999	11/04/1999	11/04/1999	11/04/1999	11/04/1999
Depth (ft)		0 - 1	0 - 1	0 - 1	0 - 1	0 - 1
Field Type		Grab	Grab	Grab	Grab	Grab
Analyte	Units					
1,3,5-Trinitrobenzene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
1,3-Dinitrobenzene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2,4,6-Trinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2,4-Dinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2,6-Dinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2-Amino-4,6-dinitrotoluene	mg/kg					
2-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
3-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
4-Amino-2,6-dinitrotoluene	mg/kg					
4-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
HMX	mg/kg	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Nitrobenzene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Nitrocellulose	mg/kg				2 U	
Nitroglycerin	mg/kg	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Nitroguanidine	mg/kg				0.25 U	
RDX	mg/kg	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetryl	mg/kg	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U

Table 4-32. Results for Surface Soil Samples – Propellant and Explosive Constituents (continued)

Location		Change Houses (CB-12, -23, -8, -22)	Change Houses (CB-12, -23, -8, -22)	Change Houses (CB-12, -23, -8, -22)	Change Houses (CB-12, -23, -8, -22)	Change Houses (CB-12, -23, -8, -22)
Station		CB23-02	CB23-03	CB23-04	CB23-04	CB23-05
Sample ID		LL0734	LL0735	LL0736	LL0744	LL0742
Customer ID		LL1ss-23-02-0734-SO	LL1ss-23-03-0735-SO	LL1ss-23-04-0736-SO	LL1ss-23-04-0744-SO	LL1ss-23-05-0742-SO
Date		11/04/1999	11/04/1999	11/04/1999	11/04/1999	11/04/1999
Depth (ft)		0 - 1	0 - 1	0 - 1	0 - 1	0 - 1
Field Type		Grab	Grab	Grab	Field Duplicate	Grab
Analyte	Units					
1,3,5-Trinitrobenzene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
1,3-Dinitrobenzene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2,4,6-Trinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2,4-Dinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2,6-Dinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2-Amino-4,6-dinitrotoluene	mg/kg					
2-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
3-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
4-Amino-2,6-dinitrotoluene	mg/kg					
4-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
HMX	mg/kg	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Nitrobenzene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Nitrocellulose	mg/kg			2 U	2 U	
Nitroglycerin	mg/kg	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Nitroguanidine	mg/kg			0.25 U	0.25 U	
RDX	mg/kg	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetryl	mg/kg	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U

Table 4-32. Results for Surface Soil Samples – Propellant and Explosive Constituents (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	Change Houses (CB-12, -23, -8, -22) LL1-195 LL10903 LL1ss-195-0903-SO 09/28/2000 0 - 1 Grab	Change Houses (CB-12, -23, -8, -22) LL1-195 LL1126 LL1ss-195-1126-SO 09/28/2000 0 - 1 Field Duplicate	Change Houses (CB-12, -23, -8, -22) LL1-196 LL1127 LL1ss-196-1127-SO 09/28/2000 0 - 1 Field Duplicate	Change Houses (CB-12, -23, -8, -22) LL1-247 LL10972 LL1ss-247-0972-SO 09/27/2000 0 - 1 Grab	Perimeter Area LL1-190 LL10897 LL1ss-190-0897-SO 09/28/2000 0 - 1 Grab
1,3,5-Trinitrobenzene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
1,3-Dinitrobenzene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2,4,6-Trinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2,4-Dinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2,6-Dinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2-Amino-4,6-dinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
3-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
4-Amino-2,6-dinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
4-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
HMX	mg/kg	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Nitrobenzene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Nitrocellulose	mg/kg	2 U	2 U	2 U	2 U	2 U
Nitroglycerin	mg/kg	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Nitroguanidine	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
RDX	mg/kg	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetryl	mg/kg	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U

Table 4-32. Results for Surface Soil Samples – Propellant and Explosive Constituents (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	Perimeter Area LL1-190 LL1132 LL1ss-190-1132-SO 09/28/2000 0 - 1 Field Duplicate	Perimeter Area LL1-198 LL1119 LL1ss-198-1119-SO 09/26/2000 0 - 1 Field Duplicate	Perimeter Area LL1-199 LL10908 LL1ss-199-0908-SO 09/27/2000 0 - 1 Grab	Perimeter Area LL1-199 LL1125 LL1ss-199-1125-SO 09/27/2000 0 - 1 Field Duplicate	Perimeter Area LL1-206 LL10917 LL1ss-206-0917-SO 09/26/2000 0 - 1 Grab
1,3,5-Trinitrobenzene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
1,3-Dinitrobenzene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2,4,6-Trinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2,4-Dinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2,6-Dinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2-Amino-4,6-dinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
3-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
4-Amino-2,6-dinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
4-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
HMX	mg/kg	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Nitrobenzene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Nitrocellulose	mg/kg	2 R	2 U	2 U	2 U	2 U
Nitroglycerin	mg/kg	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Nitroguanidine	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
RDX	mg/kg	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetryl	mg/kg	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U

Table 4-32. Results for Surface Soil Samples – Propellant and Explosive Constituents (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	Perimeter Area LL1-210 LL10921 LL1ss-210-0921-SO 09/27/2000 0 - 1 Grab	Perimeter Area LL1-210 LL1124 LL1ss-210-1124-SO 09/27/2000 0 - 1 Field Duplicate	Perimeter Area LL1-211 LL10924 LL1ss-211-0924-SO 09/27/2000 0 - 1 Grab	Perimeter Area LL1-213 LL10926 LL1ss-213-0926-SO 09/27/2000 0 - 1 Grab	Perimeter Area LL1-213 LL1123 LL1ss-213-1123-SO 09/27/2000 0 - 1 Field Duplicate
1,3,5-Trinitrobenzene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
1,3-Dinitrobenzene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2,4,6-Trinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2,4-Dinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2,6-Dinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2-Amino-4,6-dinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
3-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
4-Amino-2,6-dinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
4-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
HMX	mg/kg	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Nitrobenzene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Nitrocellulose	mg/kg	2 U	2 U	2 U	2 U	2 U
Nitroglycerin	mg/kg	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Nitroguanidine	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
RDX	mg/kg	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetryl	mg/kg	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U

Table 4-32. Results for Surface Soil Samples – Propellant and Explosive Constituents (continued)

Location		Perimeter Area	Railroad Bed Locations
Station		LL1-217	LL1-245
Sample ID		LL10930	LL1326
Customer ID		LL1ss-217-0930-SO	LL1ss-245-1326-SO
Date		09/27/2000	10/02/2000
Depth (ft)		0 - 1	0 - 1
Field Type		Grab	Grab
Analyte	Units		
1,3,5-Trinitrobenzene	mg/kg	0.25 U	0.25 U
1,3-Dinitrobenzene	mg/kg	0.25 U	0.25 U
2,4,6-Trinitrotoluene	mg/kg	0.25 U	0.25 U
2,4-Dinitrotoluene	mg/kg	0.25 U	0.25 U
2,6-Dinitrotoluene	mg/kg	0.25 U	0.25 U
2-Amino-4,6-dinitrotoluene	mg/kg	0.25 U	0.25 U
2-Nitrotoluene	mg/kg	0.25 U	0.25 U
3-Nitrotoluene	mg/kg	0.25 U	0.25 U
4-Amino-2,6-dinitrotoluene	mg/kg	0.25 U	0.25 U
4-Nitrotoluene	mg/kg	0.25 U	0.25 U
HMX	mg/kg	0.5 U	0.5 U
Nitrobenzene	mg/kg	0.25 U	0.25 U
Nitrocellulose	mg/kg	2 U	2 U
Nitroglycerin	mg/kg	2.5 U	2.5 U
Nitroguanidine	mg/kg	0.25 U	0.25 U
RDX	mg/kg	0.5 U	0.5 U
Tetryl	mg/kg	0.65 U	0.65 U

"=" = detected.
J = estimated.
U = not detected.
UJ = not detected, detection limit estimated.
R = rejected.
Blank fields indicate no analysis for a particular constituent was conducted.

Table 4-33. Results for Surface Soil Samples – Pesticide/PCB Constituents

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-4/4A and CA-6/6A LL1-001 LL10800 LL1ss-001-0800-SO 09/12/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-014 LL10839 LL1ss-014-0839-SO 09/12/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-024 LL10981 LL1ss-024-0981-SO 09/26/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-024 LL1112 LL1ss-024-1112-SO 09/26/2000 0 - 1 Field Duplicate	CB-4/4A and CA-6/6A LL1-135 LL10790 LL1ss-135-0790-SO 09/26/2000 0 - 1 Grab
4,4'-DDD	mg/kg	0.1 U	0.019 U	0.022 U	0.026 U	0.011 U
4,4'-DDE	mg/kg	0.85 J	0.063 J	0.022 U	0.026 U	0.011 U
4,4'-DDT	mg/kg	0.1 U	0.019 U	0.022 U	0.026 U	0.011 U
Aldrin	mg/kg	0.1 U	0.019 U	0.022 U	0.026 U	0.011 U
Dieldrin	mg/kg	0.1 U	0.019 U	0.022 U	0.026 U	0.011 U
Endosulfan I	mg/kg	0.1 U	0.019 U	0.022 U	0.026 U	0.011 U
Endosulfan II	mg/kg	0.1 U	0.019 U	0.022 U	0.026 U	0.011 U
Endosulfan sulfate	mg/kg	0.1 U	0.019 U	0.022 U	0.026 U	0.011 U
Endrin	mg/kg	0.1 U	0.019 U	0.022 U	0.026 U	0.011 U
Endrin aldehyde	mg/kg	0.34 J	0.045 =	0.022 U	0.026 U	0.011 U
Endrin ketone	mg/kg	0.1 U	0.019 U	0.022 U	0.026 U	0.011 U
Heptachlor	mg/kg	0.32 =	0.019 U	0.022 U	0.026 U	0.011 U
Heptachlor epoxide	mg/kg	0.1 U	0.019 U	0.022 U	0.026 U	0.011 U
Lindane	mg/kg	0.1 U	0.019 U	0.022 U	0.026 U	0.011 U
Methoxychlor	mg/kg	0.2 U	0.037 U	0.043 U	0.051 U	0.022 U
PCB-1016	mg/kg	0.79 U	0.37 U	0.14 =	0.1 U	0.044 U
PCB-1221	mg/kg	0.79 U	0.37 U	0.085 U	0.1 U	0.044 U
PCB-1232	mg/kg	0.79 U	0.37 U	0.085 U	0.1 U	0.044 U
PCB-1242	mg/kg	0.79 U	0.37 U	0.085 U	0.1 U	0.044 U
PCB-1248	mg/kg	0.79 U	0.37 U	0.085 U	0.1 U	0.044 U
PCB-1254	mg/kg	8.9 =	2.6 =	0.24 =	0.23 =	0.12 =
PCB-1260	mg/kg	0.79 U	0.37 U	0.085 U	0.1 U	0.044 U
Toxaphene	mg/kg	4 U	0.76 U	0.87 UJ	1 UJ	0.45 UJ
alpha-BHC	mg/kg	0.1 U	0.019 U	0.022 U	0.026 U	0.011 U
alpha-Chlordane	mg/kg	0.1 U	0.019 U	0.022 U	0.026 U	0.011 U
beta-BHC	mg/kg	0.1 U	0.019 U	0.022 U	0.026 U	0.011 U
delta-BHC	mg/kg	0.1 U	0.019 U	0.022 U	0.026 U	0.011 U
gamma-Chlordane	mg/kg	0.17 J	0.019 U	0.022 U	0.026 U	0.011 U

Table 4-33. Results for Surface Soil Samples – Pesticide/PCB Constituents (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-4/4A and CA-6/6A LL1-148 LL10823 LL1ss-148-0823-SO 09/13/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-158 LL10847 LL1ss-158-0847-SO 09/13/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-163 LL10853 LL1ss-163-0853-SO 09/12/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-168 LL10862 LL1ss-168-0862-SO 09/13/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-169 LL10869 LL1ss-169-0869-SO 09/18/2000 0 - 1 Grab
4,4'-DDD	mg/kg	0.39 U	0.048 U	0.0036 U	0.002 U	0.0097 U
4,4'-DDE	mg/kg	6.7 J	0.85 J	0.06 =	0.0045 J	0.039 J
4,4'-DDT	mg/kg	0.39 U	0.048 U	0.0036 U	0.002 U	0.041 J
Aldrin	mg/kg	0.39 U	0.048 U	0.0036 U	0.002 U	0.0097 U
Dieldrin	mg/kg	0.55 J	0.062 J	0.0036 U	0.002 U	0.014 J
Endosulfan I	mg/kg	0.39 U	0.048 U	0.0036 U	0.002 U	0.0097 U
Endosulfan II	mg/kg	0.39 U	0.048 U	0.0036 U	0.002 U	0.0097 U
Endosulfan sulfate	mg/kg	0.39 U	0.048 U	0.0036 U	0.002 U	0.0097 U
Endrin	mg/kg	0.39 U	0.048 U	0.0036 U	0.002 U	0.0097 U
Endrin aldehyde	mg/kg	4.4 J	0.46 J	0.033 J	0.002 U	0.024 J
Endrin ketone	mg/kg	0.39 U	0.048 U	0.0036 U	0.002 U	0.014 =
Heptachlor	mg/kg	0.39 U	0.048 U	0.0072 J	0.002 U	0.0097 U
Heptachlor epoxide	mg/kg	0.39 U	0.048 U	0.0036 U	0.002 U	0.031 J
Lindane	mg/kg	0.39 U	0.048 U	0.0036 U	0.002 U	0.0097 U
Methoxychlor	mg/kg	0.76 U	0.093 U	0.014 =	0.0039 U	0.019 U
PCB-1016	mg/kg	76 U	3.7 U	0.17 U	0.039 U	0.38 U
PCB-1221	mg/kg	76 U	3.7 U	0.17 U	0.039 U	0.38 U
PCB-1232	mg/kg	76 U	3.7 U	0.17 U	0.039 U	0.38 U
PCB-1242	mg/kg	76 U	3.7 U	0.17 U	0.039 U	0.38 U
PCB-1248	mg/kg	76 U	3.7 U	0.17 U	0.039 U	0.38 U
PCB-1254	mg/kg	1,100 =	73 =	0.91 =	0.062 =	0.97 =
PCB-1260	mg/kg	76 U	3.7 U	0.17 U	0.039 U	0.38 U
Toxaphene	mg/kg	15 U	1.9 U	0.14 U	0.08 U	0.38 U
alpha-BHC	mg/kg	0.39 U	0.048 U	0.0036 U	0.002 U	0.0097 U
alpha-Chlordane	mg/kg	0.44 J	0.048 U	0.0036 U	0.002 U	0.0097 U
beta-BHC	mg/kg	0.39 U	0.048 U	0.0036 U	0.002 U	0.0097 J
delta-BHC	mg/kg	0.39 U	0.048 U	0.0036 U	0.002 U	0.0097 U
gamma-Chlordane	mg/kg	5.3 J	0.35 J	0.012 J	0.002 U	0.0097 U

Table 4-33. Results for Surface Soil Samples – Pesticide/PCB Constituents (continued)

Location		CB-4/4A and CA-6/6A	CB-4/4A and CA-6/6A	CB-4/4A and CA-6/6A	CB-4/4A and CA-6/6A	CB-4/4A and CA-6/6A
Station		LL1-173	LL1-202	LL1-227	LL1-231	LL1-233
Sample ID		LL10874	LL10912	LL10944	LL10950	LL10954
Customer ID		LL1ss-173-0874-SO	LL1ss-202-0912-SO	LL1ss-227-0944-SO	LL1ss-231-0950-SO	LL1ss-233-0954-SO
Date		09/18/2000	09/14/2000	09/14/2000	09/14/2000	09/16/2000
Depth (ft)		0 - 1	0 - 1	0 - 1	0 - 1	0 - 1
Field Type		Grab	Grab	Grab	Grab	Grab
Analyte	Units					
4,4'-DDD	mg/kg	0.0039 U	0.0039 U	0.0018 U	0.0019 U	0.0018 U
4,4'-DDE	mg/kg	0.01 J	0.0044 =	0.0018 U	0.0019 U	0.003 J
4,4'-DDT	mg/kg	0.0053 J	0.0039 U	0.0018 U	0.0019 U	0.0018 U
Aldrin	mg/kg	0.0039 U	0.0039 U	0.0018 U	0.0019 U	0.0018 U
Dieldrin	mg/kg	0.0039 U	0.0039 U	0.0018 U	0.0019 U	0.0018 U
Endosulfan I	mg/kg	0.0039 U	0.0039 U	0.0018 U	0.0019 U	0.0018 U
Endosulfan II	mg/kg	0.0039 U	0.0039 U	0.0018 U	0.0019 U	0.0018 U
Endosulfan sulfate	mg/kg	0.0039 U	0.0039 U	0.0018 U	0.0019 U	0.0018 U
Endrin	mg/kg	0.0039 U	0.0039 U	0.0018 U	0.0019 U	0.0018 U
Endrin aldehyde	mg/kg	0.0064 J	0.0053 =	0.0018 U	0.0019 U	0.0018 U
Endrin ketone	mg/kg	0.0039 U	0.0039 U	0.0018 U	0.0019 U	0.0018 U
Heptachlor	mg/kg	0.0039 U	0.0039 U	0.0018 U	0.0019 U	0.0018 U
Heptachlor epoxide	mg/kg	0.0039 U	0.0039 U	0.0018 U	0.0019 U	0.0018 U
Lindane	mg/kg	0.0039 U	0.0039 U	0.0018 U	0.0019 U	0.0018 U
Methoxychlor	mg/kg	0.0076 U	0.0075 U	0.0036 U	0.0036 U	0.0036 U
PCB-1016	mg/kg	0.19 U	0.037 U	0.036 U	0.036 U	0.036 U
PCB-1221	mg/kg	0.19 U	0.037 U	0.036 U	0.036 U	0.036 U
PCB-1232	mg/kg	0.19 U	0.037 U	0.036 U	0.036 U	0.036 U
PCB-1242	mg/kg	0.19 U	0.037 U	0.036 U	0.036 U	0.036 U
PCB-1248	mg/kg	0.19 U	0.037 U	0.036 U	0.036 U	0.036 U
PCB-1254	mg/kg	0.34 =	0.22 J	0.036 U	0.036 U	0.18 =
PCB-1260	mg/kg	0.19 U	0.037 U	0.036 U	0.036 U	0.036 U
Toxaphene	mg/kg	0.15 U	0.15 U	0.073 U	0.073 U	0.072 U
alpha-BHC	mg/kg	0.0039 U	0.0039 U	0.0018 U	0.0019 U	0.0018 U
alpha-Chlordane	mg/kg	0.0039 U	0.0039 U	0.0018 U	0.0019 U	0.0018 U
beta-BHC	mg/kg	0.0039 U	0.0039 UJ	0.0018 U	0.0019 U	0.0018 U
delta-BHC	mg/kg	0.0039 U	0.0039 U	0.0018 U	0.0019 U	0.0018 U
gamma-Chlordane	mg/kg	0.0039 U	0.0039 U	0.0018 U	0.0019 U	0.0018 U

Table 4-33. Results for Surface Soil Samples – Pesticide/PCB Constituents (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-4/4A and CA-6/6A LL1-256 LL10984 LL1ss-256-0984-SO 09/17/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-324 LL1195 LL1ss-324-1195-SO 09/15/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-382 LL1211 LL1ss-382-1211-SO 09/28/2000 0 - 1 Grab	CB-13 and CB-10 LL1-108 LL10753 LL1ss-108-0753-SO 09/26/2000 0 - 1 Grab	CB-13 and CB-10 LL1-108 LL1120 LL1ss-108-1120-SO 09/26/2000 0 - 1 Field Duplicate
4,4'-DDD	mg/kg	0.019 U	0.002 U	0.004 U	0.01 U	0.04 U
4,4'-DDE	mg/kg	0.019 U	0.0059 =	0.0089 J	0.01 U	0.04 U
4,4'-DDT	mg/kg	0.019 U	0.002 U	0.004 U	0.01 U	0.04 U
Aldrin	mg/kg	0.019 U	0.002 U	0.004 U	0.01 U	0.04 U
Dieldrin	mg/kg	0.019 U	0.002 U	0.004 U	0.01 U	0.04 U
Endosulfan I	mg/kg	0.019 U	0.002 U	0.004 U	0.01 U	0.04 U
Endosulfan II	mg/kg	0.019 U	0.002 U	0.004 U	0.01 U	0.04 U
Endosulfan sulfate	mg/kg	0.019 U	0.002 U	0.004 U	0.01 U	0.04 U
Endrin	mg/kg	0.019 U	0.002 U	0.004 U	0.01 U	0.04 U
Endrin aldehyde	mg/kg	0.019 U	0.0038 =	0.0066 J	0.01 U	0.04 U
Endrin ketone	mg/kg	0.019 U	0.002 U	0.004 U	0.01 U	0.04 U
Heptachlor	mg/kg	0.019 U	0.002 U	0.004 U	0.01 U	0.04 U
Heptachlor epoxide	mg/kg	0.019 U	0.002 U	0.004 U	0.01 U	0.04 U
Lindane	mg/kg	0.019 U	0.002 U	0.004 U	0.01 U	0.04 U
Methoxychlor	mg/kg	0.038 U	0.0038 U	0.0078 U	0.019 U	0.077 U
PCB-1016	mg/kg	0.038 U	0.038 U	0.039 U	0.039 R	0.038 U
PCB-1221	mg/kg	0.038 U	0.038 U	0.039 U	0.039 U	0.038 U
PCB-1232	mg/kg	0.038 U	0.038 U	0.039 U	0.039 U	0.038 U
PCB-1242	mg/kg	0.038 U	0.038 U	0.039 U	0.039 U	0.038 U
PCB-1248	mg/kg	0.038 U	0.038 U	0.039 U	0.039 U	0.038 U
PCB-1254	mg/kg	0.053 =	0.47 =	0.59 =	0.039 U	0.038 U
PCB-1260	mg/kg	0.038 U	0.038 U	0.039 U	0.039 U	0.038 U
Toxaphene	mg/kg	0.77 U	0.078 U	0.16 U	0.39 U	1.6 U
alpha-BHC	mg/kg	0.019 U	0.002 U	0.004 U	0.01 U	0.04 U
alpha-Chlordane	mg/kg	0.019 U	0.002 U	0.004 U	0.01 U	0.04 U
beta-BHC	mg/kg	0.019 U	0.002 U	0.004 U	0.01 U	0.04 U
delta-BHC	mg/kg	0.019 U	0.002 U	0.004 U	0.01 U	0.04 U
gamma-Chlordane	mg/kg	0.019 U	0.006 =	0.004 U	0.01 U	0.04 U

Table 4-33. Results for Surface Soil Samples – Pesticide/PCB Constituents (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-13 and CB-10 LL1-120 LL10773 LL1ss-120-0773-SO 09/27/2000 0 - 1 Grab	CB-13 and CB-10 LL1-130 LL10783 LL1ss-130-0783-SO 09/27/2000 0 - 1 Grab	CB-13 and CB-10 LL1-130 LL1121 LL1ss-130-1121-SO 09/27/2000 0 - 1 Field Duplicate	CB-13 and CB-10 LL1-222 LL10936 LL1ss-222-0936-SO 09/26/2000 0 - 1 Grab	CB-13 and CB-10 LL1-226 LL10942 LL1ss-226-0942-SO 09/19/2000 0 - 1 Grab
4,4'-DDD	mg/kg	0.0094 U	0.021 U	0.02 U	0.0019 U	0.0018 U
4,4'-DDE	mg/kg	0.066 J	0.082 J	0.088 J	0.0019 U	0.0018 U
4,4'-DDT	mg/kg	0.015 J	0.021 U	0.02 U	0.0019 U	0.0018 U
Aldrin	mg/kg	0.0094 U	0.021 U	0.02 U	0.0019 U	0.0018 U
Dieldrin	mg/kg	0.0094 U	0.021 U	0.02 U	0.0019 U	0.0018 U
Endosulfan I	mg/kg	0.0094 U	0.021 U	0.02 U	0.0019 U	0.0018 U
Endosulfan II	mg/kg	0.0094 U	0.021 U	0.02 U	0.0019 U	0.0018 U
Endosulfan sulfate	mg/kg	0.0094 U	0.021 U	0.02 U	0.0019 U	0.0018 U
Endrin	mg/kg	0.0094 U	0.021 U	0.02 U	0.0019 U	0.0018 U
Endrin aldehyde	mg/kg	0.053 =	0.051 J	0.054 J	0.0019 U	0.0018 U
Endrin ketone	mg/kg	0.0094 U	0.021 U	0.049 J	0.0019 U	0.0018 U
Heptachlor	mg/kg	0.028 J	0.021 U	0.02 U	0.0019 U	0.0018 U
Heptachlor epoxide	mg/kg	0.0094 U	0.021 U	0.02 U	0.0019 U	0.0018 U
Lindane	mg/kg	0.0094 U	0.021 U	0.02 U	0.0019 U	0.0018 U
Methoxychlor	mg/kg	0.018 U	0.041 U	0.039 U	0.0037 U	0.0035 U
PCB-1016	mg/kg	0.37 U	0.41 U	0.39 U	0.037 U	0.035 U
PCB-1221	mg/kg	0.37 U	0.41 U	0.39 U	0.037 U	0.035 U
PCB-1232	mg/kg	0.37 U	0.41 U	0.39 U	0.037 U	0.035 U
PCB-1242	mg/kg	0.37 U	0.41 U	0.39 U	0.037 U	0.035 U
PCB-1248	mg/kg	0.37 U	0.41 U	0.39 U	0.037 U	0.035 U
PCB-1254	mg/kg	1 =	2.4 =	3.1 =	0.037 U	0.035 U
PCB-1260	mg/kg	0.37 U	0.41 U	0.39 U	0.037 U	0.035 U
Toxaphene	mg/kg	0.37 U	0.83 U	0.8 U	0.074 U	0.071 U
alpha-BHC	mg/kg	0.0094 U	0.021 U	0.02 U	0.0019 U	0.0018 U
alpha-Chlordane	mg/kg	0.0094 U	0.021 U	0.02 U	0.0019 U	0.0018 U
beta-BHC	mg/kg	0.0094 U	0.021 U	0.02 U	0.0019 U	0.0018 U
delta-BHC	mg/kg	0.0094 U	0.021 U	0.02 U	0.0019 U	0.0018 U
gamma-Chlordane	mg/kg	0.014 J	0.035 J	0.035 J	0.0019 U	0.0018 U

Table 4-33. Results for Surface Soil Samples – Pesticide/PCB Constituents (continued)

Location		CB-13 and CB-10	CB-14, CB-17, and CB-15	CB-14, CB-17, and CB-15	CB-14, CB-17, and CB-15	CD-3/CB-801	CD-3/CB-801
Station		LL1-369	LL1-091	LL1-101	LL1-103	LL1-027	LL1-179
Sample ID		LL1212	LL10728	LL10743	LL10745	LL10882	LL10884
Customer ID		LL1ss-369-1212-SO	LL1ss-091-0728-SO	LL1ss-101-0743-SO	LL1ss-103-0745-SO	LL1ss-027-0882-SO	LL1ss-179-0884-SO
Date		09/28/2000	09/25/2000	09/20/2000	09/19/2000	09/17/2000	09/17/2000
Depth (ft)		0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1
Field Type		Grab	Grab	Grab	Grab	Grab	Grab
Analyte	Units						
4,4'-DDD	mg/kg	0.011 U	0.039 U	0.0019 U	0.0036 U	0.039 U	0.04 U
4,4'-DDE	mg/kg	0.022 J	0.2 J	0.013 =	0.01 J	0.039 U	0.12 J
4,4'-DDT	mg/kg	0.011 U	0.039 U	0.0019 U	0.0036 U	0.039 U	0.04 U
Aldrin	mg/kg	0.011 U	0.039 U	0.0019 U	0.0036 U	0.039 U	0.04 U
Dieldrin	mg/kg	0.011 U	0.039 U	0.0019 U	0.0036 U	0.039 U	0.04 U
Endosulfan I	mg/kg	0.011 U	0.039 U	0.0019 U	0.0036 U	0.039 U	0.04 U
Endosulfan II	mg/kg	0.011 U	0.039 U	0.0019 U	0.0036 U	0.039 U	0.04 U
Endosulfan sulfate	mg/kg	0.011 U	0.039 U	0.0019 U	0.0036 U	0.039 U	0.04 U
Endrin	mg/kg	0.011 U	0.039 U	0.0019 U	0.0036 U	0.039 U	0.04 U
Endrin aldehyde	mg/kg	0.015 J	0.3 J	0.0083 J	0.009 J	0.039 U	0.21 J
Endrin ketone	mg/kg	0.011 U	0.039 U	0.0019 U	0.0041 J	0.039 U	0.081 J
Heptachlor	mg/kg	0.011 U	0.039 U	0.0019 U	0.0036 U	0.039 U	0.04 U
Heptachlor epoxide	mg/kg	0.011 U	0.039 U	0.0019 U	0.0036 U	0.039 U	0.04 U
Lindane	mg/kg	0.011 U	0.039 U	0.0019 U	0.0036 U	0.039 U	0.04 U
Methoxychlor	mg/kg	0.02 U	0.075 U	0.0037 =	0.007 U	0.077 U	0.078 U
PCB-1016	mg/kg	0.41 U	0.75 U	0.36 U	0.35 U	0.19 U	0.39 U
PCB-1221	mg/kg	0.41 U	0.75 U	0.36 U	0.35 U	0.19 U	0.39 U
PCB-1232	mg/kg	0.41 U	0.75 U	0.36 U	0.35 U	0.19 U	0.39 U
PCB-1242	mg/kg	0.41 U	0.75 U	0.36 U	0.35 U	0.19 U	0.39 U
PCB-1248	mg/kg	0.41 U	0.75 U	0.36 U	0.35 U	0.19 U	0.39 U
PCB-1254	mg/kg	1.7 =	4.7 =	0.6 =	0.74 =	0.69 =	4.3 =
PCB-1260	mg/kg	0.41 U	0.75 U	0.36 U	0.35 U	0.19 U	0.39 U
Toxaphene	mg/kg	0.42 U	1.5 U	0.0019 U	0.14 U	1.6 U	1.6 U
alpha-BHC	mg/kg	0.011 U	0.039 U	0.0019 U	0.0036 U	0.039 U	0.04 U
alpha-Chlordane	mg/kg	0.011 U	0.039 U	0.0019 U	0.0049 J	0.039 U	0.04 U
beta-BHC	mg/kg	0.011 U	0.039 U	0.0028 J	0.0036 U	0.039 U	0.22 J
delta-BHC	mg/kg	0.011 U	0.039 U	0.0019 U	0.0036 U	0.039 U	0.04 U
gamma-Chlordane	mg/kg	0.011 U	0.13 J	0.0045 J	0.0044 J	0.039 U	0.052 J

Table 4-33. Results for Surface Soil Samples – Pesticide/PCB Constituents (continued)

Location		CD-3/CB-801	CD-3/CB-801	Change Houses (CB-12, -23, -8, -22)	Change Houses (CB-12, -23, -8, -22)	Change Houses (CB-12, -23, -8, -22)
Station		LL1-181	LL1-185	CB22-04	CB23-04	CB23-04
Sample ID		LL10886	LL10891	LL0732	LL0736	LL0744
Customer ID		LL1ss-181-0886-SO	LL1ss-185-0891-SO	LL1ss-22-04-0732-SO	LL1ss-23-04-0736-SO	LL1ss-23-04-0744-SO
Date		09/17/2000	09/18/2000	11/04/1999	11/04/1999	11/04/1999
Depth (ft)		0 - 1	0 - 1	0 - 1	0 - 1	0 - 1
Field Type		Grab	Grab	Grab	Grab	Field Duplicate
Analyte	Units					
4,4'-DDD	mg/kg	0.04 U	0.01 U	0.0021 R	0.0024 U	0.0023 U
4,4'-DDE	mg/kg	0.04 U	0.048 J	0.0021 U	0.0016 J	0.0018 J
4,4'-DDT	mg/kg	0.04 U	0.041 J	0.0021 U	0.0024 U	0.0023 U
Aldrin	mg/kg	0.04 U	0.01 U	0.0021 U	0.0024 U	0.0023 U
Dieldrin	mg/kg	0.04 U	0.036 J	0.0021 R	0.0024 U	0.0023 U
Endosulfan I	mg/kg	0.04 U	0.01 U	0.0021 R	0.0024 U	0.0023 U
Endosulfan II	mg/kg	0.04 U	0.01 U	0.0021 R	0.0024 U	0.0023 U
Endosulfan sulfate	mg/kg	0.04 U	0.01 U	0.0021 R	0.0024 U	0.0023 U
Endrin	mg/kg	0.04 U	0.01 U	0.0021 R	0.0024 U	0.0023 U
Endrin aldehyde	mg/kg	0.04 U	0.073 J	0.0021 R	0.0014 J	0.0013 J
Endrin ketone	mg/kg	0.04 U	0.01 U	0.0021 R	0.0024 U	0.0023 U
Heptachlor	mg/kg	0.04 U	0.01 U	0.0021 R	0.0024 U	0.0023 U
Heptachlor epoxide	mg/kg	0.04 U	0.01 U	0.0021 R	0.0024 U	0.0023 U
Lindane	mg/kg	0.04 U	0.01 U	0.0021 R	0.0024 U	0.0023 U
Methoxychlor	mg/kg	0.077 U	0.026 =	0.0041 R	0.0046 U	0.0046 U
PCB-1016	mg/kg	0.039 U	0.39 U	0.041 U	0.046 U	0.046 U
PCB-1221	mg/kg	0.039 U	0.39 U	0.041 U	0.046 U	0.046 U
PCB-1232	mg/kg	0.039 U	0.39 U	0.041 U	0.046 U	0.046 U
PCB-1242	mg/kg	0.039 U	0.39 U	0.041 U	0.046 U	0.046 U
PCB-1248	mg/kg	0.039 U	0.39 U	0.041 U	0.046 U	0.046 U
PCB-1254	mg/kg	0.33 =	1.7 =	0.043 =	0.11 =	0.099 =
PCB-1260	mg/kg	0.039 U	0.39 U	0.041 U	0.046 U	0.046 U
Toxaphene	mg/kg	1.6 U	0.39 U	0.084 U	0.093 U	0.092 U
alpha-BHC	mg/kg	0.04 U	0.01 U	0.0021 R	0.0024 U	0.0023 U
alpha-Chlordane	mg/kg	0.04 U	0.01 U	0.0021 R	0.0024 U	0.0023 U
beta-BHC	mg/kg	0.04 U	0.018 J	0.0021 R	0.0024 U	0.0023 U
delta-BHC	mg/kg	0.04 U	0.01 U	0.0021 R	0.0024 U	0.0023 U
gamma-Chlordane	mg/kg	0.04 U	0.04 J	0.0021 R	0.0024 U	0.0023 U

Table 4-33. Results for Surface Soil Samples – Pesticide/PCB Constituents (continued)

Location		Perimeter Area	Perimeter Area	Water Tower	Water Tower	Water Tower
Station		LL1-193	LL1-197	LL1-218	LL1-219	LL1-220
Sample ID		LL10901	LL10906	LL10931	LL10932	LL10933
Customer ID		LL1ss-193-0901-SO	LL1ss-197-0906-SO	LL1ss-218-0931-SO	LL1ss-219-0932-SO	LL1ss-220-0933-SO
Date		09/28/2000	09/28/2000	09/20/2000	09/20/2000	09/20/2000
Depth (ft)		0 - 1	0 - 1	0 - 1	0 - 1	0 - 1
Field Type		Grab	Grab	Grab	Grab	Grab
Analyte	Units					
4,4'-DDD	mg/kg	0.0021 U	0.0099 U			
4,4'-DDE	mg/kg	0.0021 U	0.0099 U			
4,4'-DDT	mg/kg	0.0021 U	0.0099 U			
Aldrin	mg/kg	0.0021 U	0.0099 U			
Dieldrin	mg/kg	0.0021 U	0.0099 U			
Endosulfan I	mg/kg	0.0021 U	0.0099 U			
Endosulfan II	mg/kg	0.0021 U	0.0099 U			
Endosulfan sulfate	mg/kg	0.0021 U	0.0099 U			
Endrin	mg/kg	0.0021 U	0.0099 U			
Endrin aldehyde	mg/kg	0.0021 U	0.0099 U			
Endrin ketone	mg/kg	0.0021 U	0.0099 U			
Heptachlor	mg/kg	0.0021 U	0.0099 U			
Heptachlor epoxide	mg/kg	0.0021 U	0.0099 U			
Lindane	mg/kg	0.0021 U	0.0099 U			
Methoxychlor	mg/kg	0.0041 U	0.019 U			
PCB-1016	mg/kg	0.041 U	0.038 U	0.038 U	0.038 U	0.038 U
PCB-1221	mg/kg	0.041 U	0.038 U	0.038 U	0.038 U	0.038 U
PCB-1232	mg/kg	0.041 U	0.038 U	0.038 U	0.038 U	0.038 U
PCB-1242	mg/kg	0.041 U	0.038 U	0.038 U	0.038 U	0.038 U
PCB-1248	mg/kg	0.041 U	0.038 U	0.038 U	0.038 U	0.038 U
PCB-1254	mg/kg	0.041 U	0.038 U	0.038 U	0.038 U	0.038 U
PCB-1260	mg/kg	0.041 U	0.038 U	0.038 U	0.038 U	0.038 U
Toxaphene	mg/kg	0.084 U	0.39 U			
alpha-BHC	mg/kg	0.0021 U	0.0099 U			
alpha-Chlordane	mg/kg	0.0021 U	0.0099 U			
beta-BHC	mg/kg	0.0021 U	0.0099 U			
delta-BHC	mg/kg	0.0021 U	0.0099 U			
gamma-Chlordane	mg/kg	0.0021 U	0.0099 U			

"=" = detected.
J = estimated.
U = not detected.
UJ = not detected, detection limit estimated.
R = rejected.
PCB = polychlorinated biphenyl.
Blank fields indicate no analysis for a particular constituent was conducted.

Table 4-34. Results for Surface Soil Samples – Semivolatile Organic Constituents

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-4/4A and CA-6/6A LL1-001 LL10800 LL1ss-001-0800-SO 09/12/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-014 LL10839 LL1ss-014-0839-SO 09/12/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-024 LL10981 LL1ss-024-0981-SO 09/26/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-024 LL1112 LL1ss-024-1112-SO 09/26/2000 0 - 1 Field Duplicate	CB-4/4A and CA-6/6A LL1-135 LL10790 LL1ss-135-0790-SO 09/26/2000 0 - 1 Grab
1,2,4-Trichlorobenzene	mg/kg	1.6 U	0.37 U	0.85 U	1 U	0.44 U
1,2-Dichlorobenzene	mg/kg	1.6 U	0.37 U	0.85 U	1 U	0.44 U
1,3-Dichlorobenzene	mg/kg	1.6 U	0.37 U	0.85 U	1 U	0.44 U
1,4-Dichlorobenzene	mg/kg	1.6 U	0.37 U	0.85 U	1 U	0.44 U
2,4,5-Trichlorophenol	mg/kg	1.6 U	0.37 U	0.85 U	1 U	0.44 U
2,4,6-Trichlorophenol	mg/kg	1.6 U	0.37 U	0.85 U	1 U	0.44 U
2,4-Dichlorophenol	mg/kg	1.6 U	0.37 U	0.85 U	1 U	0.44 U
2,4-Dimethylphenol	mg/kg	1.6 U	0.37 U	0.85 U	1 U	0.44 U
2,4-Dinitrophenol	mg/kg	3.8 U	0.91 U	2.1 U	2.5 U	1.1 U
2,4-Dinitrotoluene	mg/kg	1.6 U	0.053 J	0.85 U	1 U	0.44 U
2,6-Dinitrotoluene	mg/kg	1.6 U	0.37 U	0.85 U	1 U	0.44 U
2-Chloronaphthalene	mg/kg	1.6 U	0.37 U	0.85 U	1 U	0.44 U
2-Chlorophenol	mg/kg	1.6 U	0.37 U	0.85 U	1 U	0.44 U
2-Methyl-4,6-dinitrophenol	mg/kg	3.8 U	0.91 U	2.1 U	2.5 U	1.1 U
2-Methylnaphthalene	mg/kg	1.6 U	0.37 U	0.85 U	1 U	0.44 U
2-Methylphenol	mg/kg	1.6 U	0.37 U	0.85 U	1 U	0.44 U
2-Nitrobenzenamine	mg/kg	3.8 U	0.91 U	2.1 U	2.5 U	1.1 U
2-Nitrophenol	mg/kg	1.6 U	0.37 U	0.85 U	1 U	0.44 U
3,3'-Dichlorobenzidine	mg/kg	1.6 U	0.37 U	0.85 R	1 U	0.44 U
3-Nitrobenzenamine	mg/kg	3.8 U	0.91 U	2.1 U	2.5 U	1.1 U
4-Bromophenyl phenyl ether	mg/kg	1.6 U	0.37 U	0.85 U	1 U	0.44 U
4-Chloro-3-methylphenol	mg/kg	1.6 U	0.37 U	0.85 U	1 U	0.44 U
4-Chlorobenzenamine	mg/kg	1.6 U	0.37 U	0.85 U	1 U	0.44 U
4-Chlorophenyl phenyl ether	mg/kg	1.6 U	0.37 U	0.85 U	1 U	0.44 U
4-Methylphenol	mg/kg	1.6 U	0.37 U	0.85 U	1 U	0.44 U
4-Nitrobenzenamine	mg/kg	3.8 U	0.91 U	2.1 U	2.5 U	1.1 U
4-Nitrophenol	mg/kg	3.8 U	0.91 U	2.1 U	2.5 U	1.1 U
Acenaphthene	mg/kg	1.6 U	0.37 U	0.85 U	1 U	0.44 U
Acenaphthylene	mg/kg	1.6 U	0.37 U	0.85 U	1 U	0.44 U
Anthracene	mg/kg	0.21 J	0.37 U	0.85 U	1 U	0.44 U
Benz(a)anthracene	mg/kg	1.1 J	0.37 U	0.85 U	1 U	0.44 U

Table 4-34. Results for Surface Soil Samples – Semivolatile Organic Constituents (continued)

Location		CB-4/4A and CA-6/6A	CB-4/4A and CA-6/6A	CB-4/4A and CA-6/6A	CB-4/4A and CA-6/6A	CB-4/4A and CA-6/6A
Station		LL1-001	LL1-014	LL1-024	LL1-024	LL1-135
Sample ID		LL10800	LL10839	LL10981	LL1112	LL10790
Customer ID		LL1ss-001-0800-SO	LL1ss-014-0839-SO	LL1ss-024-0981-SO	LL1ss-024-1112-SO	LL1ss-135-0790-SO
Date		09/12/2000	09/12/2000	09/26/2000	09/26/2000	09/26/2000
Depth (ft)		0 - 1	0 - 1	0 - 1	0 - 1	0 - 1
Field Type		Grab	Grab	Grab	Field Duplicate	Grab
Analyte	Units					
Benzo(a)pyrene	mg/kg	1 J	0.37 U	0.85 U	1 U	0.44 U
Benzo(b)fluoranthene	mg/kg	1.4 J	0.046 J	0.85 U	1 U	0.44 U
Benzo(ghi)perylene	mg/kg	0.55 J	0.37 U	0.85 U	1 U	0.44 U
Benzo(k)fluoranthene	mg/kg	0.58 J	0.37 U	0.85 U	1 U	0.44 U
Bis(2-chloroisopropyl) ether	mg/kg	1.6 U	0.37 U	0.85 U	1 U	0.44 U
Bis(2-ethylhexyl)phthalate	mg/kg	1.6 U	0.37 U	0.85 U	1 U	0.44 U
Butyl benzyl phthalate	mg/kg	1.6 U	0.37 U	0.85 U	1 U	0.44 U
Carbazole	mg/kg	1.6 U	0.37 U	0.85 U	1 U	0.44 U
Chrysene	mg/kg	1.1 J	0.37 U	0.85 U	1 U	0.44 U
Di-n-butyl phthalate	mg/kg	1.6 U	0.37 U	0.85 U	1 U	0.44 U
Di-n-octylphthalate	mg/kg	1.6 U	0.37 U	0.85 U	1 U	0.44 U
Dibenz(a,h)anthracene	mg/kg	1.6 U	0.37 U	0.85 U	1 U	0.44 U
Dibenzofuran	mg/kg	1.6 U	0.37 U	0.85 U	1 U	0.44 U
Diethyl phthalate	mg/kg	1.6 U	0.37 U	0.85 U	1 U	0.44 U
Dimethyl phthalate	mg/kg	1.6 U	0.37 U	0.85 U	1 U	0.44 U
Fluoranthene	mg/kg	2.4 =	0.056 J	0.85 U	1 U	0.44 U
Fluorene	mg/kg	1.6 U	0.37 U	0.85 U	1 U	0.44 U
Hexachlorobenzene	mg/kg	1.6 U	0.37 U	0.85 U	1 U	0.44 U
Hexachlorobutadiene	mg/kg	1.6 U	0.37 U	0.85 U	1 U	0.44 U
Hexachlorocyclopentadiene	mg/kg	1.6 U	0.37 U	0.85 U	1 U	0.44 U
Hexachloroethane	mg/kg	1.6 U	0.37 U	0.85 U	1 U	0.44 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.62 J	0.37 U	0.85 U	1 U	0.44 U
Isophorone	mg/kg	1.6 U	0.37 U	0.85 U	1 U	0.44 U
N-Nitroso-di-n-propylamine	mg/kg	1.6 U	0.37 U	0.85 U	1 U	0.44 U
N-Nitrosodiphenylamine	mg/kg	1.6 U	0.37 U	0.85 U	1 U	0.44 U
Naphthalene	mg/kg	1.6 U	0.37 U	0.85 U	1 U	0.44 U
Nitrobenzene	mg/kg	1.6 U	0.37 U	0.85 U	1 U	0.44 U
Pentachlorophenol	mg/kg	3.8 U	0.91 U	2.1 U	2.5 U	1.1 U
Phenanthrene	mg/kg	0.93 J	0.37 U	0.85 U	1 U	0.44 U
Phenol	mg/kg	1.6 U	0.37 U	0.85 U	1 U	0.44 U
Pyrene	mg/kg	1.9 =	0.37 U	0.85 U	1 U	0.44 U

Table 4-34. Results for Surface Soil Samples – Semivolatile Organic Constituents (continued)

Location		CB-4/4A and CA-6/6A	CB-4/4A and CA-6/6A	CB-4/4A and CA-6/6A	CB-4/4A and CA-6/6A	CB-4/4A and CA-6/6A
Station		LL1-001	LL1-014	LL1-024	LL1-024	LL1-135
Sample ID		LL10800	LL10839	LL10981	LL1112	LL10790
Customer ID		LL1ss-001-0800-SO	LL1ss-014-0839-SO	LL1ss-024-0981-SO	LL1ss-024-1112-SO	LL1ss-135-0790-SO
Date		09/12/2000	09/12/2000	09/26/2000	09/26/2000	09/26/2000
Depth (ft)		0 - 1	0 - 1	0 - 1	0 - 1	0 - 1
Field Type		Grab	Grab	Grab	Field Duplicate	Grab
Analyte	Units					
bis(2-Chloroethoxy)methane	mg/kg	1.6 U	0.37 U	0.85 U	1 U	0.44 U
bis(2-Chloroethyl) ether	mg/kg	1.6 U	0.37 U	0.85 U	1 U	0.44 U

Table 4-34. Results for Surface Soil Samples – Semivolatile Organic Constituents (continued)

Location		CB-4/4A and CA-6/6A	CB-4/4A and CA-6/6A	CB-4/4A and CA-6/6A	CB-4/4A and CA-6/6A	CB-4/4A and CA-6/6A
Station		LL1-148	LL1-158	LL1-163	LL1-168	LL1-169
Sample ID		LL10823	LL10847	LL10853	LL10862	LL10869
Customer ID		LL1ss-148-0823-SO	LL1ss-158-0847-SO	LL1ss-163-0853-SO	LL1ss-168-0862-SO	LL1ss-169-0869-SO
Date		09/13/2000	09/13/2000	09/12/2000	09/13/2000	09/18/2000
Depth (ft)		0 - 1	0 - 1	0 - 1	0 - 1	0 - 1
Field Type		Grab	Grab	Grab	Grab	Grab
Analyte	Units					
1,2,4-Trichlorobenzene	mg/kg	1.9 U	0.37 U	0.35 U	0.39 U	3.8 U
1,2-Dichlorobenzene	mg/kg	1.9 U	0.37 U	0.35 U	0.39 U	3.8 U
1,3-Dichlorobenzene	mg/kg	1.9 U	0.37 U	0.35 U	0.39 U	3.8 U
1,4-Dichlorobenzene	mg/kg	1.9 U	0.37 U	0.35 U	0.39 U	3.8 U
2,4,5-Trichlorophenol	mg/kg	1.9 U	0.37 U	0.35 U	0.39 U	3.8 U
2,4,6-Trichlorophenol	mg/kg	1.9 U	0.37 U	0.35 U	0.39 U	3.8 U
2,4-Dichlorophenol	mg/kg	1.9 U	0.37 U	0.35 U	0.39 U	3.8 U
2,4-Dimethylphenol	mg/kg	1.9 U	0.37 U	0.35 U	0.39 U	3.8 U
2,4-Dinitrophenol	mg/kg	4.6 U	0.91 U	0.84 U	0.95 U	9.1 U
2,4-Dinitrotoluene	mg/kg	1.9 U	0.37 U	0.35 U	0.39 U	3.8 U
2,6-Dinitrotoluene	mg/kg	1.9 U	0.37 U	0.35 U	0.39 U	3.8 U
2-Chloronaphthalene	mg/kg	1.9 U	0.37 U	0.35 U	0.39 U	3.8 U
2-Chlorophenol	mg/kg	1.9 U	0.37 U	0.35 U	0.39 U	3.8 U
2-Methyl-4,6-dinitrophenol	mg/kg	4.6 U	0.91 U	0.84 U	0.95 U	9.1 U
2-Methylnaphthalene	mg/kg	1.9 U	0.37 U	0.35 U	0.077 J	3.8 U
2-Methylphenol	mg/kg	1.9 U	0.37 U	0.35 U	0.39 U	3.8 U
2-Nitrobenzenamine	mg/kg	4.6 U	0.91 U	0.84 U	0.95 U	9.1 U
2-Nitrophenol	mg/kg	1.9 U	0.37 U	0.35 U	0.39 U	3.8 U
3,3'-Dichlorobenzidine	mg/kg	1.9 U	0.37 U	0.35 U	0.39 U	3.8 U
3-Nitrobenzenamine	mg/kg	4.6 U	0.91 U	0.84 U	0.95 U	9.1 U
4-Bromophenyl phenyl ether	mg/kg	1.9 U	0.37 U	0.35 U	0.39 U	3.8 U
4-Chloro-3-methylphenol	mg/kg	1.9 U	0.37 U	0.35 U	0.39 U	3.8 U
4-Chlorobenzenamine	mg/kg	1.9 U	0.37 U	0.35 U	0.39 U	3.8 U
4-Chlorophenyl phenyl ether	mg/kg	1.9 U	0.37 U	0.35 U	0.39 U	3.8 U
4-Methylphenol	mg/kg	1.9 U	0.37 U	0.35 U	0.39 U	3.8 U
4-Nitrobenzenamine	mg/kg	4.6 U	0.91 U	0.84 U	0.95 U	9.1 U
4-Nitrophenol	mg/kg	4.6 U	0.91 U	0.84 U	0.95 U	9.1 U
Acenaphthene	mg/kg	1.9 U	0.37 U	0.35 U	0.23 J	3.8 U
Acenaphthylene	mg/kg	1.9 U	0.37 U	0.35 U	0.39 U	3.8 U
Anthracene	mg/kg	1.9 U	0.37 U	0.35 U	0.55 =	3.8 U
Benz(a)anthracene	mg/kg	1.9 U	0.061 J	0.35 U	1.2 =	3.8 U

Table 4-34. Results for Surface Soil Samples – Semivolatile Organic Constituents (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-4/4A and CA-6/6A LL1-148 LL10823 LL1ss-148-0823-SO 09/13/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-158 LL10847 LL1ss-158-0847-SO 09/13/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-163 LL10853 LL1ss-163-0853-SO 09/12/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-168 LL10862 LL1ss-168-0862-SO 09/13/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-169 LL10869 LL1ss-169-0869-SO 09/18/2000 0 - 1 Grab
Benzo(a)pyrene	mg/kg	1.9 U	0.06 J	0.35 U	0.93 =	3.8 U
Benzo(b)fluoranthene	mg/kg	1.9 U	0.095 J	0.042 J	1.2 =	3.8 U
Benzo(ghi)perylene	mg/kg	1.9 U	0.37 U	0.35 U	0.44 =	3.8 U
Benzo(k)fluoranthene	mg/kg	1.9 U	0.37 U	0.35 U	0.53 =	3.8 U
Bis(2-chloroisopropyl) ether	mg/kg	1.9 U	0.37 U	0.35 U	0.39 U	3.8 UJ
Bis(2-ethylhexyl)phthalate	mg/kg	1.9 U	0.079 J	0.35 U	0.081 J	3.8 U
Butyl benzyl phthalate	mg/kg	1.9 U	0.37 U	0.35 U	0.39 U	3.8 U
Carbazole	mg/kg	1.9 U	0.37 U	0.35 U	0.38 J	3.8 U
Chrysene	mg/kg	1.9 U	0.095 J	0.35 U	1.1 =	3.8 U
Di-n-butyl phthalate	mg/kg	1.9 U	0.37 U	0.35 U	0.39 U	3.8 U
Di-n-octylphthalate	mg/kg	1.9 U	0.37 U	0.35 U	0.39 U	3.8 U
Dibenz(a,h)anthracene	mg/kg	1.9 U	0.37 U	0.35 U	0.096 J	3.8 U
Dibenzofuran	mg/kg	1.9 U	0.37 U	0.35 U	0.19 J	3.8 U
Diethyl phthalate	mg/kg	1.9 U	0.37 U	0.35 U	0.39 U	3.8 U
Dimethyl phthalate	mg/kg	1.9 U	0.37 U	0.35 U	0.39 U	3.8 U
Fluoranthene	mg/kg	0.24 J	0.15 J	0.088 J	2.9 =	3.8 U
Fluorene	mg/kg	1.9 U	0.37 U	0.35 U	0.31 J	3.8 U
Hexachlorobenzene	mg/kg	1.9 U	0.37 U	0.35 U	0.39 U	3.8 U
Hexachlorobutadiene	mg/kg	1.9 U	0.37 U	0.35 U	0.39 U	3.8 U
Hexachlorocyclopentadiene	mg/kg	1.9 U	0.37 U	0.35 U	0.39 U	3.8 U
Hexachloroethane	mg/kg	1.9 U	0.37 U	0.35 U	0.39 U	3.8 U
Indeno(1,2,3-cd)pyrene	mg/kg	1.9 U	0.37 U	0.35 U	0.48 =	3.8 U
Isophorone	mg/kg	1.9 U	0.37 U	0.35 U	0.39 U	3.8 U
N-Nitroso-di-n-propylamine	mg/kg	1.9 U	0.37 U	0.35 U	0.39 U	3.8 U
N-Nitrosodiphenylamine	mg/kg	1.9 U	0.37 U	0.35 U	0.39 U	3.8 U
Naphthalene	mg/kg	1.9 U	0.37 U	0.35 U	0.22 J	3.8 U
Nitrobenzene	mg/kg	1.9 U	0.37 U	0.35 U	0.39 U	3.8 U
Pentachlorophenol	mg/kg	4.6 U	0.91 U	0.84 U	0.95 U	9.1 U
Phenanthrene	mg/kg	1.9 U	0.12 J	0.046 J	2.5 =	3.8 U
Phenol	mg/kg	1.9 U	0.37 U	0.35 U	0.39 U	3.8 U
Pyrene	mg/kg	1.9 U	0.16 J	0.07 J	2.3 =	3.8 U

Table 4-34. Results for Surface Soil Samples – Semivolatile Organic Constituents (continued)

Location		CB-4/4A and CA-6/6A	CB-4/4A and CA-6/6A	CB-4/4A and CA-6/6A	CB-4/4A and CA-6/6A	CB-4/4A and CA-6/6A
Station		LL1-148	LL1-158	LL1-163	LL1-168	LL1-169
Sample ID		LL10823	LL10847	LL10853	LL10862	LL10869
Customer ID		LL1ss-148-0823-SO	LL1ss-158-0847-SO	LL1ss-163-0853-SO	LL1ss-168-0862-SO	LL1ss-169-0869-SO
Date		09/13/2000	09/13/2000	09/12/2000	09/13/2000	09/18/2000
Depth (ft)		0 - 1	0 - 1	0 - 1	0 - 1	0 - 1
Field Type		Grab	Grab	Grab	Grab	Grab
Analyte	Units					
bis(2-Chloroethoxy)methane	mg/kg	1.9 U	0.37 U	0.35 U	0.39 U	3.8 U
bis(2-Chloroethyl) ether	mg/kg	1.9 U	0.37 U	0.35 U	0.39 U	3.8 U

Table 4-34. Results for Surface Soil Samples – Semivolatile Organic Constituents (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-4/4A and CA-6/6A LL1-173 LL10874 LL1ss-173-0874-SO 09/18/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-202 LL10912 LL1ss-202-0912-SO 09/14/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-227 LL10944 LL1ss-227-0944-SO 09/14/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-231 LL10950 LL1ss-231-0950-SO 09/14/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-233 LL10954 LL1ss-233-0954-SO 09/16/2000 0 - 1 Grab
1,2,4-Trichlorobenzene	mg/kg	0.38 U	0.37 U	0.36 U	0.36 U	0.36 U
1,2-Dichlorobenzene	mg/kg	0.38 U	0.37 U	0.36 U	0.36 U	0.36 U
1,3-Dichlorobenzene	mg/kg	0.38 U	0.37 U	0.36 U	0.36 U	0.36 U
1,4-Dichlorobenzene	mg/kg	0.38 U	0.37 U	0.36 U	0.36 U	0.36 U
2,4,5-Trichlorophenol	mg/kg	0.38 U	0.37 U	0.36 U	0.36 U	0.36 U
2,4,6-Trichlorophenol	mg/kg	0.38 U	0.37 U	0.36 U	0.36 U	0.36 U
2,4-Dichlorophenol	mg/kg	0.38 U	0.37 U	0.36 U	0.36 U	0.36 U
2,4-Dimethylphenol	mg/kg	0.38 U	0.37 U	0.36 U	0.36 U	0.36 U
2,4-Dinitrophenol	mg/kg	0.92 U	0.91 U	0.87 U	0.87 U	0.86 U
2,4-Dinitrotoluene	mg/kg	0.38 U	0.37 U	0.36 U	0.36 U	0.36 U
2,6-Dinitrotoluene	mg/kg	0.38 U	0.37 U	0.36 U	0.36 U	0.36 U
2-Chloronaphthalene	mg/kg	0.38 U	0.37 U	0.36 U	0.36 U	0.36 U
2-Chlorophenol	mg/kg	0.38 U	0.37 U	0.36 U	0.36 U	0.36 U
2-Methyl-4,6-dinitrophenol	mg/kg	0.92 U	0.91 U	0.87 U	0.87 U	0.86 U
2-Methylnaphthalene	mg/kg	0.041 J	0.37 U	0.36 U	0.36 U	0.36 U
2-Methylphenol	mg/kg	0.38 U	0.37 U	0.36 U	0.36 U	0.36 U
2-Nitrobenzenamine	mg/kg	0.92 U	0.91 U	0.87 U	0.87 U	0.86 U
2-Nitrophenol	mg/kg	0.38 U	0.37 U	0.36 U	0.36 U	0.36 U
3,3'-Dichlorobenzidine	mg/kg	0.38 U	0.37 U	0.36 U	0.36 U	0.36 U
3-Nitrobenzenamine	mg/kg	0.92 U	0.91 U	0.87 U	0.87 U	0.86 U
4-Bromophenyl phenyl ether	mg/kg	0.38 U	0.37 U	0.36 U	0.36 U	0.36 U
4-Chloro-3-methylphenol	mg/kg	0.38 U	0.37 U	0.36 U	0.36 U	0.36 U
4-Chlorobenzenamine	mg/kg	0.38 U	0.37 U	0.36 U	0.36 U	0.36 U
4-Chlorophenyl phenyl ether	mg/kg	0.38 U	0.37 U	0.36 U	0.36 U	0.36 U
4-Methylphenol	mg/kg	0.38 U	0.37 U	0.36 U	0.36 U	0.36 U
4-Nitrobenzenamine	mg/kg	0.92 U	0.91 U	0.87 U	0.87 U	0.86 U
4-Nitrophenol	mg/kg	0.92 U	0.91 U	0.87 U	0.87 U	0.86 U
Acenaphthene	mg/kg	0.38 U	0.37 U	0.36 U	0.36 U	0.36 U
Acenaphthylene	mg/kg	0.38 U	0.37 U	0.36 U	0.36 U	0.36 U
Anthracene	mg/kg	0.38 U	0.37 U	0.36 U	0.36 U	0.36 U
Benz(a)anthracene	mg/kg	0.086 J	0.37 U	0.36 U	0.36 U	0.36 U

Table 4-34. Results for Surface Soil Samples – Semivolatile Organic Constituents (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-4/4A and CA-6/6A LL1-173 LL10874 LL1ss-173-0874-SO 09/18/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-202 LL10912 LL1ss-202-0912-SO 09/14/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-227 LL10944 LL1ss-227-0944-SO 09/14/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-231 LL10950 LL1ss-231-0950-SO 09/14/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-233 LL10954 LL1ss-233-0954-SO 09/16/2000 0 - 1 Grab
Benzo(a)pyrene	mg/kg	0.099 J	0.37 U	0.36 U	0.36 U	0.36 U
Benzo(b)fluoranthene	mg/kg	0.15 J	0.37 U	0.36 U	0.36 U	0.36 U
Benzo(ghi)perylene	mg/kg	0.074 J	0.37 U	0.36 U	0.36 U	0.36 U
Benzo(k)fluoranthene	mg/kg	0.053 J	0.37 U	0.36 U	0.36 U	0.36 U
Bis(2-chloroisopropyl) ether	mg/kg	0.38 UJ	0.37 U	0.36 U	0.36 U	0.36 U
Bis(2-ethylhexyl)phthalate	mg/kg	0.38 U	0.37 U	0.36 U	0.079 J	0.11 J
Butyl benzyl phthalate	mg/kg	0.38 U	0.37 U	0.05 J	0.36 U	0.36 U
Carbazole	mg/kg	0.38 U	0.37 U	0.36 U	0.36 U	0.36 U
Chrysene	mg/kg	0.099 J	0.37 U	0.36 U	0.36 U	0.36 U
Di-n-butyl phthalate	mg/kg	0.38 U	0.37 U	0.36 U	0.36 U	0.36 U
Di-n-octylphthalate	mg/kg	0.38 U	0.37 U	0.36 U	0.36 U	0.36 U
Dibenz(a,h)anthracene	mg/kg	0.38 U	0.37 U	0.36 U	0.36 U	0.36 U
Dibenzofuran	mg/kg	0.38 U	0.37 U	0.36 U	0.36 U	0.36 U
Diethyl phthalate	mg/kg	0.38 U	0.37 U	0.36 U	0.36 U	0.36 U
Dimethyl phthalate	mg/kg	0.38 U	0.37 U	0.36 U	0.36 U	0.36 U
Fluoranthene	mg/kg	0.13 J	0.37 U	0.36 U	0.36 U	0.36 U
Fluorene	mg/kg	0.38 U	0.37 U	0.36 U	0.36 U	0.36 U
Hexachlorobenzene	mg/kg	0.38 U	0.37 U	0.36 U	0.36 U	0.36 U
Hexachlorobutadiene	mg/kg	0.38 U	0.37 U	0.36 U	0.36 U	0.36 U
Hexachlorocyclopentadiene	mg/kg	0.38 U	0.37 U	0.36 U	0.36 U	0.36 U
Hexachloroethane	mg/kg	0.38 U	0.37 U	0.36 U	0.36 U	0.36 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.076 J	0.37 U	0.36 U	0.36 U	0.36 U
Isophorone	mg/kg	0.38 U	0.37 U	0.36 U	0.36 U	0.36 U
N-Nitroso-di-n-propylamine	mg/kg	0.38 U	0.37 U	0.36 U	0.36 U	0.36 U
N-Nitrosodiphenylamine	mg/kg	0.38 U	0.37 U	0.36 U	0.36 U	0.36 U
Naphthalene	mg/kg	0.38 U	0.37 U	0.36 U	0.36 U	0.36 U
Nitrobenzene	mg/kg	0.38 U	0.37 U	0.36 U	0.36 U	0.36 U
Pentachlorophenol	mg/kg	0.92 U	0.91 U	0.87 U	0.87 U	0.86 U
Phenanthrene	mg/kg	0.054 J	0.37 U	0.36 U	0.36 U	0.36 U
Phenol	mg/kg	0.05 J	0.37 U	0.36 U	0.36 U	0.36 U
Pyrene	mg/kg	0.1 J	0.37 U	0.36 U	0.36 U	0.36 U

Table 4-34. Results for Surface Soil Samples – Semivolatile Organic Constituents (continued)

Location		CB-4/4A and CA-6/6A	CB-4/4A and CA-6/6A	CB-4/4A and CA-6/6A	CB-4/4A and CA-6/6A	CB-4/4A and CA-6/6A
Station		LL1-173	LL1-202	LL1-227	LL1-231	LL1-233
Sample ID		LL10874	LL10912	LL10944	LL10950	LL10954
Customer ID		LL1ss-173-0874-SO	LL1ss-202-0912-SO	LL1ss-227-0944-SO	LL1ss-231-0950-SO	LL1ss-233-0954-SO
Date		09/18/2000	09/14/2000	09/14/2000	09/14/2000	09/16/2000
Depth (ft)		0 - 1	0 - 1	0 - 1	0 - 1	0 - 1
Field Type		Grab	Grab	Grab	Grab	Grab
Analyte	Units					
bis(2-Chloroethoxy)methane	mg/kg	0.38 U	0.37 U	0.36 U	0.36 U	0.36 U
bis(2-Chloroethyl) ether	mg/kg	0.38 U	0.37 U	0.36 U	0.36 U	0.36 U

Table 4-34. Results for Surface Soil Samples – Semivolatile Organic Constituents (continued)

Location		CB-4/4A and CA-6/6A	CB-4/4A and CA-6/6A	CB-4/4A and CA-6/6A	CB-4/4A and CA-6/6A	CB-13 and CB-10
Station		LL1-256	LL1-324	LL1-346	LL1-382	LL1-108
Sample ID		LL10984	LL1195	LL1210	LL1211	LL10753
Customer ID		LL1ss-256-0984-SO	LL1ss-324-1195-SO	LL1ss-346-1210-SO	LL1ss-382-1211-SO	LL1ss-108-0753-SO
Date		09/17/2000	09/15/2000	09/29/2000	09/28/2000	09/26/2000
Depth (ft)		0 - 1	0 - 1	0 - 1	0 - 1	0 - 1
Field Type		Grab	Grab	Grab	Grab	Grab
Analyte	Units					
1,2,4-Trichlorobenzene	mg/kg	0.38 U	0.38 U	0.38 U	0.39 UJ	0.39 U
1,2-Dichlorobenzene	mg/kg	0.38 U	0.38 U	0.38 U	0.39 UJ	0.39 U
1,3-Dichlorobenzene	mg/kg	0.38 U	0.38 U	0.38 U	0.39 UJ	0.39 U
1,4-Dichlorobenzene	mg/kg	0.38 U	0.38 U	0.38 U	0.39 UJ	0.39 U
2,4,5-Trichlorophenol	mg/kg	0.38 U	0.38 U	0.38 U	0.39 UJ	0.39 U
2,4,6-Trichlorophenol	mg/kg	0.38 U	0.38 U	0.38 U	0.39 UJ	0.39 U
2,4-Dichlorophenol	mg/kg	0.38 U	0.38 U	0.38 U	0.39 UJ	0.39 U
2,4-Dimethylphenol	mg/kg	0.38 U	0.38 U	0.38 U	0.39 UJ	0.39 U
2,4-Dinitrophenol	mg/kg	0.92 U	0.93 U	0.92 U	0.94 UJ	0.94 U
2,4-Dinitrotoluene	mg/kg	0.38 U	0.38 U	0.38 U	0.39 UJ	0.39 U
2,6-Dinitrotoluene	mg/kg	0.38 U	0.38 U	0.38 U	0.39 UJ	0.39 U
2-Chloronaphthalene	mg/kg	0.38 U	0.38 U	0.38 U	0.39 UJ	0.39 U
2-Chlorophenol	mg/kg	0.38 U	0.38 U	0.38 U	0.39 UJ	0.39 U
2-Methyl-4,6-dinitrophenol	mg/kg	0.92 U	0.93 U	0.92 U	0.94 UJ	0.94 U
2-Methylnaphthalene	mg/kg	0.38 U	0.38 U	0.38 U	0.39 U	0.14 J
2-Methylphenol	mg/kg	0.38 U	0.38 U	0.38 U	0.39 U	0.39 U
2-Nitrobenzenamine	mg/kg	0.92 U	0.93 U	0.92 U	0.94 U	0.94 U
2-Nitrophenol	mg/kg	0.38 U	0.38 U	0.38 U	0.39 U	0.39 U
3,3'-Dichlorobenzidine	mg/kg	0.38 U	0.38 U	0.38 U	0.39 UJ	0.39 R
3-Nitrobenzenamine	mg/kg	0.92 U	0.93 U	0.92 U	0.94 U	0.94 U
4-Bromophenyl phenyl ether	mg/kg	0.38 U	0.38 U	0.38 U	0.39 UJ	0.39 U
4-Chloro-3-methylphenol	mg/kg	0.38 U	0.38 U	0.38 U	0.39 UJ	0.39 U
4-Chlorobenzenamine	mg/kg	0.38 U	0.38 U	0.38 U	0.39 UJ	0.39 U
4-Chlorophenyl phenyl ether	mg/kg	0.38 U	0.38 U	0.38 U	0.39 UJ	0.39 U
4-Methylphenol	mg/kg	0.38 U	0.38 U	0.38 U	0.39 U	0.39 U
4-Nitrobenzenamine	mg/kg	0.92 U	0.93 U	0.92 U	0.94 U	0.94 U
4-Nitrophenol	mg/kg	0.92 U	0.93 U	0.92 U	0.94 U	0.94 U
Acenaphthene	mg/kg	0.38 U	0.38 U	0.38 U	0.39 UJ	0.39 U
Acenaphthylene	mg/kg	0.38 U	0.38 U	0.38 U	0.39 UJ	0.39 U
Anthracene	mg/kg	0.38 U	0.38 U	0.38 U	0.39 UJ	0.39 U
Benz(a)anthracene	mg/kg	0.38 U	0.38 U	0.38 U	0.39 UJ	0.061 J

Table 4-34. Results for Surface Soil Samples – Semivolatile Organic Constituents (continued)

Location		CB-4/4A and CA-6/6A	CB-4/4A and CA-6/6A	CB-4/4A and CA-6/6A	CB-4/4A and CA-6/6A	CB-13 and CB-10
Station		LL1-256	LL1-324	LL1-346	LL1-382	LL1-108
Sample ID		LL10984	LL1195	LL1210	LL1211	LL10753
Customer ID		LL1ss-256-0984-SO	LL1ss-324-1195-SO	LL1ss-346-1210-SO	LL1ss-382-1211-SO	LL1ss-108-0753-SO
Date		09/17/2000	09/15/2000	09/29/2000	09/28/2000	09/26/2000
Depth (ft)		0 - 1	0 - 1	0 - 1	0 - 1	0 - 1
Field Type		Grab	Grab	Grab	Grab	Grab
Analyte	Units					
Benzo(a)pyrene	mg/kg	0.38 U	0.38 U	0.38 U	0.39 UJ	0.082 J
Benzo(b)fluoranthene	mg/kg	0.38 U	0.38 U	0.38 U	0.39 UJ	0.11 J
Benzo(ghi)perylene	mg/kg	0.38 U	0.38 U	0.38 U	0.39 UJ	0.1 J
Benzo(k)fluoranthene	mg/kg	0.38 U	0.38 U	0.38 U	0.39 UJ	0.39 U
Bis(2-chloroisopropyl) ether	mg/kg	0.38 U	0.38 U	0.38 U	0.39 UJ	0.39 U
Bis(2-ethylhexyl)phthalate	mg/kg	0.38 U	0.38 U	0.38 U	0.39 UJ	0.39 U
Butyl benzyl phthalate	mg/kg	0.38 U	0.38 U	0.38 U	0.39 UJ	0.39 U
Carbazole	mg/kg	0.38 U	0.38 U	0.38 U	0.39 UJ	0.39 U
Chrysene	mg/kg	0.38 U	0.38 U	0.38 U	0.39 UJ	0.069 J
Di-n-butyl phthalate	mg/kg	0.38 U	0.38 U	0.38 U	0.39 UJ	0.47 =
Di-n-octylphthalate	mg/kg	0.38 U	0.38 U	0.38 U	0.39 UJ	0.39 U
Dibenz(a,h)anthracene	mg/kg	0.38 U	0.38 U	0.38 U	0.39 UJ	0.39 U
Dibenzofuran	mg/kg	0.38 U	0.38 U	0.38 U	0.39 UJ	0.39 U
Diethyl phthalate	mg/kg	0.38 U	0.38 U	0.38 U	0.39 UJ	0.39 U
Dimethyl phthalate	mg/kg	0.38 U	0.38 U	0.38 U	0.39 UJ	0.39 U
Fluoranthene	mg/kg	0.38 U	0.38 U	0.38 U	0.075 J	0.12 J
Fluorene	mg/kg	0.38 U	0.38 U	0.38 U	0.39 U	0.39 U
Hexachlorobenzene	mg/kg	0.38 U	0.38 U	0.38 U	0.39 U	0.39 U
Hexachlorobutadiene	mg/kg	0.38 U	0.38 U	0.38 U	0.39 U	0.39 U
Hexachlorocyclopentadiene	mg/kg	0.38 U	0.38 U	0.38 U	0.39 U	0.39 U
Hexachloroethane	mg/kg	0.38 U	0.38 U	0.38 U	0.39 U	0.39 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.38 U	0.38 U	0.38 U	0.39 U	0.092 J
Isophorone	mg/kg	0.38 U	0.38 U	0.38 U	0.39 U	0.39 U
N-Nitroso-di-n-propylamine	mg/kg	0.38 U	0.38 U	0.38 U	0.39 U	0.39 U
N-Nitrosodiphenylamine	mg/kg	0.38 U	0.38 U	0.38 U	0.39 U	0.39 U
Naphthalene	mg/kg	0.38 U	0.38 U	0.38 U	0.39 U	0.1 J
Nitrobenzene	mg/kg	0.38 U	0.38 U	0.38 U	0.39 U	0.39 U
Pentachlorophenol	mg/kg	0.92 U	0.93 U	0.92 U	0.94 UJ	0.94 U
Phenanthrene	mg/kg	0.38 U	0.38 U	0.38 U	0.39 UJ	0.11 J
Phenol	mg/kg	0.38 U	0.38 U	0.38 U	0.39 UJ	0.39 U
Pyrene	mg/kg	0.38 U	0.38 U	0.38 U	0.39 UJ	0.094 J

Table 4-34. Results for Surface Soil Samples – Semivolatile Organic Constituents (continued)

Location		CB-4/4A and CA-6/6A	CB-4/4A and CA-6/6A	CB-4/4A and CA-6/6A	CB-4/4A and CA-6/6A	CB-13 and CB-10
Station		LL1-256	LL1-324	LL1-346	LL1-382	LL1-108
Sample ID		LL10984	LL1195	LL1210	LL1211	LL10753
Customer ID		LL1ss-256-0984-SO	LL1ss-324-1195-SO	LL1ss-346-1210-SO	LL1ss-382-1211-SO	LL1ss-108-0753-SO
Date		09/17/2000	09/15/2000	09/29/2000	09/28/2000	09/26/2000
Depth (ft)		0 - 1	0 - 1	0 - 1	0 - 1	0 - 1
Field Type		Grab	Grab	Grab	Grab	Grab
Analyte	Units					
bis(2-Chloroethoxy)methane	mg/kg	0.38 U	0.38 U	0.38 U	0.39 UJ	0.39 U
bis(2-Chloroethyl) ether	mg/kg	0.38 U	0.38 U	0.38 U	0.39 UJ	0.39 U

Table 4-34. Results for Surface Soil Samples – Semivolatile Organic Constituents (continued)

Location		CB-13 and CB-10	CB-13 and CB-10	CB-13 and CB-10	CB-13 and CB-10	CB-13 and CB-10
Station		LL1-108	LL1-120	LL1-130	LL1-130	LL1-222
Sample ID		LL1120	LL10773	LL10783	LL1121	LL10936
Customer ID		LL1ss-108-1120-SO	LL1ss-120-0773-SO	LL1ss-130-0783-SO	LL1ss-130-1121-SO	LL1ss-222-0936-SO
Date		09/26/2000	09/27/2000	09/27/2000	09/27/2000	09/26/2000
Depth (ft)		0 - 1	0 - 1	0 - 1	0 - 1	0 - 1
Field Type		Field Duplicate	Grab	Grab	Field Duplicate	Grab
Analyte	Units					
1,2,4-Trichlorobenzene	mg/kg	0.38 U	0.37 U	0.41 U	0.39 U	0.37 U
1,2-Dichlorobenzene	mg/kg	0.38 U	0.37 U	0.41 U	0.39 U	0.37 U
1,3-Dichlorobenzene	mg/kg	0.38 U	0.37 U	0.41 U	0.39 U	0.37 U
1,4-Dichlorobenzene	mg/kg	0.38 U	0.37 U	0.41 U	0.39 U	0.37 U
2,4,5-Trichlorophenol	mg/kg	0.38 U	0.37 U	0.41 U	0.39 U	0.37 U
2,4,6-Trichlorophenol	mg/kg	0.38 U	0.37 U	0.41 U	0.39 U	0.37 U
2,4-Dichlorophenol	mg/kg	0.38 U	0.37 U	0.41 U	0.39 U	0.37 U
2,4-Dimethylphenol	mg/kg	0.38 U	0.37 U	0.41 U	0.39 U	0.37 U
2,4-Dinitrophenol	mg/kg	0.93 U	0.89 U	0.99 U	0.96 U	0.89 U
2,4-Dinitrotoluene	mg/kg	0.38 U	0.37 U	0.41 U	0.39 U	0.37 U
2,6-Dinitrotoluene	mg/kg	0.38 U	0.37 U	0.41 U	0.39 U	0.37 U
2-Chloronaphthalene	mg/kg	0.38 U	0.37 U	0.41 U	0.39 U	0.37 U
2-Chlorophenol	mg/kg	0.38 U	0.37 U	0.41 U	0.39 U	0.37 U
2-Methyl-4,6-dinitrophenol	mg/kg	0.93 U	0.89 U	0.99 U	0.96 U	0.89 U
2-Methylnaphthalene	mg/kg	0.16 J	0.37 U	0.41 U	0.39 U	0.37 U
2-Methylphenol	mg/kg	0.38 U	0.37 U	0.41 U	0.39 U	0.37 U
2-Nitrobenzenamine	mg/kg	0.93 U	0.89 U	0.99 U	0.96 U	0.89 U
2-Nitrophenol	mg/kg	0.38 U	0.37 U	0.41 U	0.39 U	0.37 U
3,3'-Dichlorobenzidine	mg/kg	0.38 U	0.37 U	0.41 U	0.39 U	0.37 U
3-Nitrobenzenamine	mg/kg	0.93 U	0.89 U	0.99 U	0.96 U	0.89 U
4-Bromophenyl phenyl ether	mg/kg	0.38 U	0.37 U	0.41 U	0.39 U	0.37 U
4-Chloro-3-methylphenol	mg/kg	0.38 U	0.37 U	0.41 U	0.39 U	0.37 U
4-Chlorobenzenamine	mg/kg	0.38 U	0.37 U	0.41 U	0.39 U	0.37 U
4-Chlorophenyl phenyl ether	mg/kg	0.38 U	0.37 U	0.41 U	0.39 U	0.37 U
4-Methylphenol	mg/kg	0.38 U	0.37 U	0.41 U	0.39 U	0.37 U
4-Nitrobenzenamine	mg/kg	0.93 U	0.89 U	0.99 U	0.96 U	0.89 U
4-Nitrophenol	mg/kg	0.93 U	0.89 U	0.99 U	0.96 U	0.89 U
Acenaphthene	mg/kg	0.38 U	0.37 U	0.41 U	0.39 U	0.37 U
Acenaphthylene	mg/kg	0.38 U	0.37 U	0.41 U	0.39 U	0.37 U
Anthracene	mg/kg	0.38 U	0.37 U	0.073 J	0.045 J	0.37 U
Benz(a)anthracene	mg/kg	0.042 J	0.37 U	0.41 =	0.26 J	0.37 U

Table 4-34. Results for Surface Soil Samples – Semivolatile Organic Constituents (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-13 and CB-10 LL1-108 LL1120 LL1ss-108-1120-SO 09/26/2000 0 - 1 Field Duplicate	CB-13 and CB-10 LL1-120 LL10773 LL1ss-120-0773-SO 09/27/2000 0 - 1 Grab	CB-13 and CB-10 LL1-130 LL10783 LL1ss-130-0783-SO 09/27/2000 0 - 1 Grab	CB-13 and CB-10 LL1-130 LL1121 LL1ss-130-1121-SO 09/27/2000 0 - 1 Field Duplicate	CB-13 and CB-10 LL1-222 LL10936 LL1ss-222-0936-SO 09/26/2000 0 - 1 Grab
Benzo(a)pyrene	mg/kg	0.056 J	0.37 U	0.37 J	0.24 J	0.37 U
Benzo(b)fluoranthene	mg/kg	0.081 J	0.37 U	0.47 =	0.31 J	0.37 U
Benzo(ghi)perylene	mg/kg	0.079 J	0.37 U	0.24 J	0.15 J	0.37 U
Benzo(k)fluoranthene	mg/kg	0.38 U	0.37 U	0.21 J	0.12 J	0.37 U
Bis(2-chloroisopropyl) ether	mg/kg	0.38 U	0.37 U	0.41 U	0.39 U	0.37 U
Bis(2-ethylhexyl)phthalate	mg/kg	0.38 U	0.37 U	0.41 U	0.39 U	0.37 U
Butyl benzyl phthalate	mg/kg	0.38 U	0.37 U	0.41 U	0.39 U	0.37 U
Carbazole	mg/kg	0.38 U	0.37 U	0.072 J	0.39 U	0.37 U
Chrysene	mg/kg	0.38 U	0.37 U	0.48 =	0.32 J	0.37 U
Di-n-butyl phthalate	mg/kg	0.79 =	0.37 U	0.41 U	0.39 U	0.37 U
Di-n-octylphthalate	mg/kg	0.38 U	0.37 U	0.41 U	0.39 U	0.37 U
Dibenz(a,h)anthracene	mg/kg	0.38 U	0.37 U	0.41 U	0.39 U	0.37 U
Dibenzofuran	mg/kg	0.38 U	0.37 U	0.41 U	0.39 U	0.37 U
Diethyl phthalate	mg/kg	0.38 U	0.37 U	0.41 U	0.39 U	0.37 U
Dimethyl phthalate	mg/kg	0.38 U	0.37 U	0.41 U	0.39 U	0.37 U
Fluoranthene	mg/kg	0.074 J	0.37 U	1 =	0.67 =	0.37 U
Fluorene	mg/kg	0.38 U	0.37 U	0.041 J	0.39 U	0.37 U
Hexachlorobenzene	mg/kg	0.38 U	0.37 U	0.41 U	0.39 U	0.37 U
Hexachlorobutadiene	mg/kg	0.38 U	0.37 U	0.41 U	0.39 U	0.37 U
Hexachlorocyclopentadiene	mg/kg	0.38 U	0.37 U	0.41 U	0.39 U	0.37 U
Hexachloroethane	mg/kg	0.38 U	0.37 U	0.41 U	0.39 U	0.37 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.068 J	0.37 U	0.26 J	0.17 J	0.37 U
Isophorone	mg/kg	0.38 U	0.37 U	0.41 U	0.39 U	0.37 U
N-Nitroso-di-n-propylamine	mg/kg	0.38 U	0.37 U	0.41 U	0.39 U	0.37 U
N-Nitrosodiphenylamine	mg/kg	0.057 J	0.37 U	0.41 U	0.39 U	0.37 U
Naphthalene	mg/kg	0.11 J	0.37 U	0.41 U	0.39 U	0.37 U
Nitrobenzene	mg/kg	0.38 U	0.37 U	0.41 U	0.39 U	0.37 U
Pentachlorophenol	mg/kg	0.93 U	0.89 U	0.99 U	0.96 U	0.89 U
Phenanthrene	mg/kg	0.093 J	0.37 U	0.45 =	0.32 J	0.37 U
Phenol	mg/kg	0.38 U	0.37 U	0.41 U	0.39 U	0.37 U
Pyrene	mg/kg	0.38 U	0.37 U	0.79 =	0.51 =	0.37 U

Table 4-34. Results for Surface Soil Samples – Semivolatile Organic Constituents (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-13 and CB-10 LL1-108 LL1120 LL1ss-108-1120-SO 09/26/2000 0 - 1 Field Duplicate	CB-13 and CB-10 LL1-120 LL10773 LL1ss-120-0773-SO 09/27/2000 0 - 1 Grab	CB-13 and CB-10 LL1-130 LL10783 LL1ss-130-0783-SO 09/27/2000 0 - 1 Grab	CB-13 and CB-10 LL1-130 LL1121 LL1ss-130-1121-SO 09/27/2000 0 - 1 Field Duplicate	CB-13 and CB-10 LL1-222 LL10936 LL1ss-222-0936-SO 09/26/2000 0 - 1 Grab
bis(2-Chloroethoxy)methane	mg/kg	0.38 U	0.37 U	0.41 U	0.39 U	0.37 U
bis(2-Chloroethyl) ether	mg/kg	0.38 U	0.37 U	0.41 U	0.39 U	0.37 U

Table 4-34. Results for Surface Soil Samples – Semivolatile Organic Constituents (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-13 and CB-10 LL1-226 LL10942 LL1ss-226-0942-SO 09/19/2000 0 - 1 Grab	CB-13 and CB-10 LL1-369 LL1212 LL1ss-369-1212-SO 09/28/2000 0 - 1 Grab	CB-14, CB-17, and CB-15 LL1-091 LL10728 LL1ss-091-0728-SO 09/25/2000 0 - 1 Grab	CB-14, CB-17, and CB-15 LL1-094 LL10732 LL1ss-094-0732-SO 09/25/2000 0 - 1 Grab	CB-14, CB-17, and CB-15 LL1-101 LL10743 LL1ss-101-0743-SO 09/20/2000 0 - 1 Grab
1,2,4-Trichlorobenzene	mg/kg	0.35 U	0.41 U	0.38 U	0.38 U	0.36 U
1,2-Dichlorobenzene	mg/kg	0.35 U	0.41 U	0.38 U	0.38 U	0.36 U
1,3-Dichlorobenzene	mg/kg	0.35 U	0.41 U	0.38 U	0.38 U	0.36 U
1,4-Dichlorobenzene	mg/kg	0.35 U	0.41 U	0.38 U	0.38 U	0.36 U
2,4,5-Trichlorophenol	mg/kg	0.35 U	0.41 U	0.38 U	0.38 U	0.36 U
2,4,6-Trichlorophenol	mg/kg	0.35 U	0.41 U	0.38 U	0.38 U	0.36 U
2,4-Dichlorophenol	mg/kg	0.35 U	0.41 U	0.38 U	0.38 U	0.36 U
2,4-Dimethylphenol	mg/kg	0.35 U	0.41 U	0.38 U	0.38 U	0.36 U
2,4-Dinitrophenol	mg/kg	0.85 U	0.99 U	0.91 U	0.93 U	0.88 U
2,4-Dinitrotoluene	mg/kg	0.35 U	0.41 U	0.38 U	0.38 U	0.36 U
2,6-Dinitrotoluene	mg/kg	0.35 U	0.41 U	0.38 U	0.38 U	0.36 U
2-Chloronaphthalene	mg/kg	0.35 U	0.41 U	0.38 U	0.38 U	0.36 U
2-Chlorophenol	mg/kg	0.35 U	0.41 U	0.38 U	0.38 U	0.36 U
2-Methyl-4,6-dinitrophenol	mg/kg	0.85 U	0.99 U	0.91 U	0.93 U	0.88 U
2-Methylnaphthalene	mg/kg	0.35 U	0.41 U	0.17 J	0.38 U	0.36 U
2-Methylphenol	mg/kg	0.35 U	0.41 U	0.38 U	0.38 U	0.36 U
2-Nitrobenzenamine	mg/kg	0.85 U	0.99 U	0.91 U	0.93 U	0.88 U
2-Nitrophenol	mg/kg	0.35 U	0.41 U	0.38 U	0.38 U	0.36 U
3,3'-Dichlorobenzidine	mg/kg	0.35 U	0.41 U	0.38 U	0.38 U	0.36 U
3-Nitrobenzenamine	mg/kg	0.85 U	0.99 U	0.91 U	0.93 U	0.88 U
4-Bromophenyl phenyl ether	mg/kg	0.35 U	0.41 U	0.38 U	0.38 U	0.36 U
4-Chloro-3-methylphenol	mg/kg	0.35 U	0.41 U	0.38 U	0.38 U	0.36 U
4-Chlorobenzenamine	mg/kg	0.35 U	0.41 U	0.38 U	0.38 U	0.36 U
4-Chlorophenyl phenyl ether	mg/kg	0.35 U	0.41 U	0.38 U	0.38 U	0.36 U
4-Methylphenol	mg/kg	0.35 U	0.41 U	0.38 U	0.38 U	0.36 U
4-Nitrobenzenamine	mg/kg	0.85 U	0.99 U	0.91 U	0.93 U	0.88 U
4-Nitrophenol	mg/kg	0.85 U	0.99 U	0.91 U	0.93 U	0.88 U
Acenaphthene	mg/kg	0.35 U	0.41 U	0.38 U	0.38 U	0.36 U
Acenaphthylene	mg/kg	0.35 U	0.41 U	0.38 U	0.38 U	0.36 U
Anthracene	mg/kg	0.35 U	0.41 U	0.11 J	0.38 U	0.36 U
Benz(a)anthracene	mg/kg	0.35 U	0.075 J	0.4 =	0.38 U	0.36 U

Table 4-34. Results for Surface Soil Samples – Semivolatile Organic Constituents (continued)

Location		CB-13 and CB-10	CB-13 and CB-10	CB-14, CB-17, and CB-15	CB-14, CB-17, and CB-15	CB-14, CB-17, and CB-15
Station		LL1-226	LL1-369	LL1-091	LL1-094	LL1-101
Sample ID		LL10942	LL1212	LL10728	LL10732	LL10743
Customer ID		LL1ss-226-0942-SO	LL1ss-369-1212-SO	LL1ss-091-0728-SO	LL1ss-094-0732-SO	LL1ss-101-0743-SO
Date		09/19/2000	09/28/2000	09/25/2000	09/25/2000	09/20/2000
Depth (ft)		0 - 1	0 - 1	0 - 1	0 - 1	0 - 1
Field Type		Grab	Grab	Grab	Grab	Grab
Analyte	Units					
Benzo(a)pyrene	mg/kg	0.35 U	0.081 J	0.84 =	0.38 U	0.037 J
Benzo(b)fluoranthene	mg/kg	0.35 U	0.11 J	1.1 =	0.38 U	0.073 J
Benzo(ghi)perylene	mg/kg	0.35 U	0.057 J	0.61 =	0.38 U	0.36 U
Benzo(k)fluoranthene	mg/kg	0.35 U	0.41 U	0.3 J	0.38 U	0.36 U
Bis(2-chloroisopropyl) ether	mg/kg	0.35 UJ	0.41 U	0.38 U	0.38 U	0.36 UJ
Bis(2-ethylhexyl)phthalate	mg/kg	0.35 U	0.41 U	0.14 J	0.38 U	0.36 U
Butyl benzyl phthalate	mg/kg	0.35 U	0.41 U	0.38 U	0.38 U	0.36 U
Carbazole	mg/kg	0.35 U	0.41 U	0.095 J	0.38 U	0.36 U
Chrysene	mg/kg	0.35 U	0.1 J	0.56 =	0.38 U	0.36 U
Di-n-butyl phthalate	mg/kg	0.35 U	0.41 U	0.093 J	0.38 U	0.12 J
Di-n-octylphthalate	mg/kg	0.35 U	0.41 U	0.38 U	0.38 U	0.36 U
Dibenz(a,h)anthracene	mg/kg	0.35 U	0.41 U	0.18 J	0.38 U	0.36 U
Dibenzofuran	mg/kg	0.35 U	0.41 U	0.045 J	0.38 U	0.36 U
Diethyl phthalate	mg/kg	0.35 U	0.41 U	0.38 U	0.38 U	0.36 U
Dimethyl phthalate	mg/kg	0.35 U	0.41 U	0.38 U	0.38 U	0.36 U
Fluoranthene	mg/kg	0.35 U	0.15 J	0.91 =	0.38 U	0.089 J
Fluorene	mg/kg	0.35 U	0.41 U	0.38 U	0.38 U	0.36 U
Hexachlorobenzene	mg/kg	0.35 U	0.41 U	0.38 U	0.38 U	0.36 U
Hexachlorobutadiene	mg/kg	0.35 U	0.41 U	0.38 U	0.38 U	0.36 U
Hexachlorocyclopentadiene	mg/kg	0.35 U	0.41 U	0.38 U	0.38 U	0.36 U
Hexachloroethane	mg/kg	0.35 U	0.41 U	0.38 U	0.38 U	0.36 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.35 U	0.056 J	0.64 =	0.38 U	0.36 U
Isophorone	mg/kg	0.35 U	0.41 U	0.38 U	0.38 U	0.36 U
N-Nitroso-di-n-propylamine	mg/kg	0.35 U	0.41 U	0.38 U	0.38 U	0.36 U
N-Nitrosodiphenylamine	mg/kg	0.35 U	0.41 U	0.38 U	0.38 U	0.36 U
Naphthalene	mg/kg	0.35 U	0.41 U	0.11 J	0.38 U	0.36 U
Nitrobenzene	mg/kg	0.35 U	0.41 U	0.38 U	0.38 U	0.36 U
Pentachlorophenol	mg/kg	0.85 U	0.99 U	0.91 U	0.93 U	0.88 U
Phenanthrene	mg/kg	0.35 U	0.41 U	0.45 =	0.38 U	0.36 U
Phenol	mg/kg	0.35 U	0.41 U	0.38 U	0.38 U	0.36 U
Pyrene	mg/kg	0.35 U	0.12 J	1 =	0.38 U	0.063 J

Table 4-34. Results for Surface Soil Samples – Semivolatile Organic Constituents (continued)

Location		CB-13 and CB-10	CB-13 and CB-10	CB-14, CB-17, and CB-15	CB-14, CB-17, and CB-15	CB-14, CB-17, and CB-15
Station		LL1-226	LL1-369	LL1-091	LL1-094	LL1-101
Sample ID		LL10942	LL1212	LL10728	LL10732	LL10743
Customer ID		LL1ss-226-0942-SO	LL1ss-369-1212-SO	LL1ss-091-0728-SO	LL1ss-094-0732-SO	LL1ss-101-0743-SO
Date		09/19/2000	09/28/2000	09/25/2000	09/25/2000	09/20/2000
Depth (ft)		0 - 1	0 - 1	0 - 1	0 - 1	0 - 1
Field Type		Grab	Grab	Grab	Grab	Grab
Analyte	Units					
bis(2-Chloroethoxy)methane	mg/kg	0.35 U	0.41 U	0.38 U	0.38 U	0.36 U
bis(2-Chloroethyl) ether	mg/kg	0.35 U	0.41 U	0.38 U	0.38 U	0.36 U

Table 4-34. Results for Surface Soil Samples – Semivolatile Organic Constituents (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-14, CB-17, and CB-15 LL1-103 LL10745 LL1ss-103-0745-SO 09/19/2000 0 - 1 Grab	CD-3/CB-801 LL1-027 LL10882 LL1ss-027-0882-SO 09/17/2000 0 - 1 Grab	CD-3/CB-801 LL1-179 LL10884 LL1ss-179-0884-SO 09/17/2000 0 - 1 Grab	CD-3/CB-801 LL1-181 LL10886 LL1ss-181-0886-SO 09/17/2000 0 - 1 Grab	CD-3/CB-801 LL1-185 LL10891 LL1ss-185-0891-SO 09/18/2000 0 - 1 Grab
1,2,4-Trichlorobenzene	mg/kg	0.35 U	0.38 U	4.9 U	0.39 U	0.39 U
1,2-Dichlorobenzene	mg/kg	0.35 U	0.38 U	4.9 U	0.39 U	0.39 U
1,3-Dichlorobenzene	mg/kg	0.35 U	0.38 U	4.9 U	0.39 U	0.39 U
1,4-Dichlorobenzene	mg/kg	0.35 U	0.38 U	4.9 U	0.39 U	0.39 U
2,4,5-Trichlorophenol	mg/kg	0.35 U	0.38 U	4.9 U	0.39 U	0.39 U
2,4,6-Trichlorophenol	mg/kg	0.35 U	0.38 U	4.9 U	0.39 U	0.39 U
2,4-Dichlorophenol	mg/kg	0.35 U	0.38 U	4.9 U	0.39 U	0.39 U
2,4-Dimethylphenol	mg/kg	0.35 U	0.38 U	4.9 U	0.39 U	0.39 U
2,4-Dinitrophenol	mg/kg	0.85 U	0.93 U	12 U	0.94 U	0.94 U
2,4-Dinitrotoluene	mg/kg	0.35 U	0.38 U	4.9 U	0.39 U	0.39 U
2,6-Dinitrotoluene	mg/kg	0.35 U	0.38 U	4.9 U	0.39 U	0.39 U
2-Chloronaphthalene	mg/kg	0.35 U	0.38 U	4.9 U	0.39 U	0.39 U
2-Chlorophenol	mg/kg	0.35 U	0.38 U	4.9 U	0.39 U	0.39 U
2-Methyl-4,6-dinitrophenol	mg/kg	0.85 U	0.93 U	12 U	0.94 U	0.94 U
2-Methylnaphthalene	mg/kg	0.038 J	0.38 U	4.9 U	0.39 U	0.05 J
2-Methylphenol	mg/kg	0.35 U	0.38 U	4.9 U	0.39 U	0.39 U
2-Nitrobenzenamine	mg/kg	0.85 U	0.93 U	12 U	0.94 U	0.94 U
2-Nitrophenol	mg/kg	0.35 U	0.38 U	4.9 U	0.39 U	0.39 U
3,3'-Dichlorobenzidine	mg/kg	0.35 U	0.38 U	4.9 U	0.39 U	0.39 U
3-Nitrobenzenamine	mg/kg	0.85 U	0.93 U	12 U	0.94 U	0.94 U
4-Bromophenyl phenyl ether	mg/kg	0.35 U	0.38 U	4.9 U	0.39 U	0.39 U
4-Chloro-3-methylphenol	mg/kg	0.35 U	0.38 U	4.9 U	0.39 U	0.39 U
4-Chlorobenzenamine	mg/kg	0.35 U	0.38 U	4.9 U	0.39 U	0.39 U
4-Chlorophenyl phenyl ether	mg/kg	0.35 U	0.38 U	4.9 U	0.39 U	0.39 U
4-Methylphenol	mg/kg	0.35 U	0.38 U	4.9 U	0.39 U	0.39 U
4-Nitrobenzenamine	mg/kg	0.85 U	0.93 U	12 U	0.94 U	0.94 U
4-Nitrophenol	mg/kg	0.85 U	0.93 U	12 U	0.94 U	0.94 U
Acenaphthene	mg/kg	0.069 J	0.38 U	2.4 J	0.39 U	0.39 U
Acenaphthylene	mg/kg	0.35 U	0.38 U	4.9 U	0.39 U	0.39 U
Anthracene	mg/kg	0.16 J	0.38 U	5.8 J	0.39 U	0.39 U
Benz(a)anthracene	mg/kg	0.64 =	0.071 J	14 J	0.097 J	0.22 J

Table 4-34. Results for Surface Soil Samples – Semivolatile Organic Constituents (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-14, CB-17, and CB-15 LL1-103 LL10745 LL1ss-103-0745-SO 09/19/2000 0 - 1 Grab	CD-3/CB-801 LL1-027 LL10882 LL1ss-027-0882-SO 09/17/2000 0 - 1 Grab	CD-3/CB-801 LL1-179 LL10884 LL1ss-179-0884-SO 09/17/2000 0 - 1 Grab	CD-3/CB-801 LL1-181 LL10886 LL1ss-181-0886-SO 09/17/2000 0 - 1 Grab	CD-3/CB-801 LL1-185 LL10891 LL1ss-185-0891-SO 09/18/2000 0 - 1 Grab
Benzo(a)pyrene	mg/kg	0.53 =	0.073 J	13 J	0.098 J	0.21 J
Benzo(b)fluoranthene	mg/kg	0.75 =	0.1 J	15 J	0.13 J	0.41 =
Benzo(ghi)perylene	mg/kg	0.3 J	0.054 J	8.2 J	0.068 J	0.18 J
Benzo(k)fluoranthene	mg/kg	0.26 J	0.38 U	5.7 J	0.39 U	0.13 J
Bis(2-chloroisopropyl) ether	mg/kg	0.35 UJ	0.38 U	4.9 U	0.39 U	0.39 UJ
Bis(2-ethylhexyl)phthalate	mg/kg	0.35 U	0.38 U	4.9 U	0.39 U	0.095 J
Butyl benzyl phthalate	mg/kg	0.35 U	0.38 U	4.9 U	0.39 U	0.39 U
Carbazole	mg/kg	0.11 J	0.38 U	4.1 J	0.39 U	0.39 U
Chrysene	mg/kg	0.64 =	0.089 J	15 J	0.12 J	0.34 J
Di-n-butyl phthalate	mg/kg	0.72 =	0.38 U	4.9 U	0.39 U	0.39 U
Di-n-octylphthalate	mg/kg	0.35 U	0.38 U	4.9 U	0.39 U	0.39 U
Dibenz(a,h)anthracene	mg/kg	0.086 J	0.38 U	1.7 J	0.39 U	0.39 U
Dibenzofuran	mg/kg	0.35 U	0.38 U	1.3 J	0.39 U	0.39 U
Diethyl phthalate	mg/kg	0.35 U	0.38 U	4.9 U	0.39 U	0.39 U
Dimethyl phthalate	mg/kg	0.35 U	0.38 U	4.9 U	0.39 U	0.39 U
Fluoranthene	mg/kg	1.4 =	0.14 J	39 J	0.24 J	0.46 =
Fluorene	mg/kg	0.057 J	0.38 U	2.3 J	0.39 U	0.39 U
Hexachlorobenzene	mg/kg	0.35 U	0.38 U	4.9 U	0.39 U	0.39 U
Hexachlorobutadiene	mg/kg	0.35 U	0.38 U	4.9 U	0.39 U	0.39 U
Hexachlorocyclopentadiene	mg/kg	0.35 U	0.38 U	4.9 U	0.39 U	0.39 U
Hexachloroethane	mg/kg	0.35 U	0.38 U	4.9 U	0.39 U	0.39 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.29 J	0.053 J	8.7 J	0.067 J	0.19 J
Isophorone	mg/kg	0.35 U	0.38 U	4.9 U	0.39 U	0.39 U
N-Nitroso-di-n-propylamine	mg/kg	0.35 U	0.38 U	4.9 U	0.39 U	0.39 U
N-Nitrosodiphenylamine	mg/kg	0.35 U	0.38 U	4.9 U	0.39 U	0.39 U
Naphthalene	mg/kg	0.045 J	0.38 U	4.9 U	0.39 U	0.046 J
Nitrobenzene	mg/kg	0.35 U	0.38 U	4.9 U	0.39 U	0.39 U
Pentachlorophenol	mg/kg	0.85 U	0.93 U	12 U	0.94 U	0.083 J
Phenanthrene	mg/kg	0.67 =	0.072 J	30 J	0.18 J	0.29 J
Phenol	mg/kg	0.35 U	0.38 U	4.9 U	0.39 U	0.045 J
Pyrene	mg/kg	0.97 =	0.14 J	41 J	0.21 J	0.44 =

Table 4-34. Results for Surface Soil Samples – Semivolatile Organic Constituents (continued)

Location		CB-14, CB-17, and CB-15	CD-3/CB-801	CD-3/CB-801	CD-3/CB-801	CD-3/CB-801
Station		LL1-103	LL1-027	LL1-179	LL1-181	LL1-185
Sample ID		LL10745	LL10882	LL10884	LL10886	LL10891
Customer ID		LL1ss-103-0745-SO	LL1ss-027-0882-SO	LL1ss-179-0884-SO	LL1ss-181-0886-SO	LL1ss-185-0891-SO
Date		09/19/2000	09/17/2000	09/17/2000	09/17/2000	09/18/2000
Depth (ft)		0 - 1	0 - 1	0 - 1	0 - 1	0 - 1
Field Type		Grab	Grab	Grab	Grab	Grab
Analyte	Units					
bis(2-Chloroethoxy)methane	mg/kg	0.35 U	0.38 U	4.9 U	0.39 U	0.39 U
bis(2-Chloroethyl) ether	mg/kg	0.35 U	0.38 U	4.9 U	0.39 U	0.39 U

Table 4-34. Results for Surface Soil Samples – Semivolatile Organic Constituents (continued)

Location		CD-3/CB-801	Change Houses (CB-12, -23, -8, -22)	Change Houses (CB-12, -23, -8, -22)	Change Houses (CB-12, -23, -8, -22)	Perimeter Area	Perimeter Area
Station		LL1-409	CB22-04	CB23-04	CB23-04	LL1-193	LL1-197
Sample ID		LL1209	LL0732	LL0736	LL0744	LL10901	LL10906
Customer ID		LL1ss-409-1209-SO	LL1ss-22-04-0732-SO	LL1ss-23-04-0736-SO	LL1ss-23-04-0744-SO	LL1ss-193-0901-SO	LL1ss-197-0906-SO
Date		09/29/2000	11/04/1999	11/04/1999	11/04/1999	09/28/2000	09/28/2000
Depth (ft)		0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1
Field Type		Grab	Grab	Grab	Field Duplicate	Grab	Grab
Analyte	Units						
1,2,4-Trichlorobenzene	mg/kg	0.96 U	0.41 U	0.46 U	0.46 U	0.41 U	0.38 U
1,2-Dichlorobenzene	mg/kg	0.96 U	0.41 U	0.46 U	0.46 U	0.41 U	0.38 U
1,3-Dichlorobenzene	mg/kg	0.96 U	0.41 U	0.46 U	0.46 U	0.41 U	0.38 U
1,4-Dichlorobenzene	mg/kg	0.96 U	0.41 U	0.46 U	0.46 U	0.41 U	0.38 U
2,4,5-Trichlorophenol	mg/kg	0.96 U	0.41 U	0.46 U	0.46 U	0.41 U	0.38 U
2,4,6-Trichlorophenol	mg/kg	0.96 U	0.41 U	0.46 U	0.46 U	0.41 U	0.38 U
2,4-Dichlorophenol	mg/kg	0.96 U	0.41 U	0.46 U	0.46 U	0.41 U	0.38 U
2,4-Dimethylphenol	mg/kg	0.96 U	0.41 U	0.46 U	0.46 U	0.41 U	0.38 U
2,4-Dinitrophenol	mg/kg	2.3 U	1 U	1.1 U	1.1 U	1 U	0.93 U
2,4-Dinitrotoluene	mg/kg	0.96 U	0.41 U	0.46 U	0.46 U	0.41 U	0.38 U
2,6-Dinitrotoluene	mg/kg	0.96 U	0.41 U	0.46 U	0.46 U	0.41 U	0.38 U
2-Chloronaphthalene	mg/kg	0.96 U	0.41 U	0.46 U	0.46 U	0.41 U	0.38 U
2-Chlorophenol	mg/kg	0.96 U	0.41 U	0.46 U	0.46 U	0.41 U	0.38 U
2-Methyl-4,6-dinitrophenol	mg/kg	2.3 U	1 U	1.1 U	1.1 U	1 U	0.93 U
2-Methylnaphthalene	mg/kg	0.12 J	0.41 U	0.46 U	0.46 U	0.41 U	0.38 U
2-Methylphenol	mg/kg	0.96 U	0.41 U	0.46 U	0.46 U	0.41 U	0.38 U
2-Nitrobenzenamine	mg/kg	2.3 U	1 U	1.1 U	1.1 U	1 U	0.93 U
2-Nitrophenol	mg/kg	0.96 U	0.41 U	0.46 U	0.46 U	0.41 U	0.38 U
3,3'-Dichlorobenzidine	mg/kg	0.96 U	0.41 R	0.46 U	0.46 U	0.41 U	0.38 U
3-Nitrobenzenamine	mg/kg	2.3 U	1 R	1.1 U	1.1 U	1 U	0.93 U
4-Bromophenyl phenyl ether	mg/kg	0.96 U	0.41 U	0.46 U	0.46 U	0.41 U	0.38 U
4-Chloro-3-methylphenol	mg/kg	0.96 U	0.41 U	0.46 U	0.46 U	0.41 U	0.38 U
4-Chlorobenzenamine	mg/kg	0.96 U	0.41 R	0.46 U	0.46 U	0.41 U	0.38 U
4-Chlorophenyl phenyl ether	mg/kg	0.96 U	0.41 U	0.46 U	0.46 U	0.41 U	0.38 U
4-Methylphenol	mg/kg	0.96 U	0.41 U	0.46 U	0.46 U	0.41 U	0.38 U
4-Nitrobenzenamine	mg/kg	2.3 U	1 R	1.1 U	1.1 U	1 U	0.93 U
4-Nitrophenol	mg/kg	2.3 U	1 U	1.1 U	1.1 U	1 U	0.93 U
Acenaphthene	mg/kg	0.96 U	0.41 U	0.46 U	0.46 U	0.41 U	0.38 U
Acenaphthylene	mg/kg	0.96 U	0.41 U	0.46 U	0.46 U	0.41 U	0.38 U
Anthracene	mg/kg	0.21 J	0.41 U	0.46 U	0.46 U	0.41 U	0.38 U

Table 4-34. Results for Surface Soil Samples – Semivolatile Organic Constituents (continued)

Location		CD-3/CB-801	Change Houses (CB-12, -23, -8, -22)	Change Houses (CB-12, -23, -8, -22)	Change Houses (CB-12, -23, -8, -22)	Perimeter Area	Perimeter Area
Station		LL1-409	CB22-04	CB23-04	CB23-04	LL1-193	LL1-197
Sample ID		LL1209	LL0732	LL0736	LL0744	LL10901	LL10906
Customer ID		LL1ss-409-1209-SO	LL1ss-22-04-0732-SO	LL1ss-23-04-0736-SO	LL1ss-23-04-0744-SO	LL1ss-193-0901-SO	LL1ss-197-0906-SO
Date		09/29/2000	11/04/1999	11/04/1999	11/04/1999	09/28/2000	09/28/2000
Depth (ft)		0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1
Field Type		Grab	Grab	Grab	Field Duplicate	Grab	Grab
Analyte	Units						
Benz(a)anthracene	mg/kg	1 =	0.072 J	0.05 J	0.05 J	0.41 U	0.38 U
Benzo(a)pyrene	mg/kg	1.3 =	0.092 J	0.06 J	0.068 J	0.41 U	0.38 U
Benzo(b)fluoranthene	mg/kg	2.5 =	0.15 J	0.084 J	0.09 J	0.41 U	0.042 J
Benzo(ghi)perylene	mg/kg	1.5 =	0.074 J	0.46 U	0.46 U	0.41 U	0.38 U
Benzo(k)fluoranthene	mg/kg	0.69 J	0.065 J	0.46 U	0.058 J	0.41 U	0.38 U
Bis(2-chloroisopropyl) ether	mg/kg	0.96 U	0.41 U	0.46 U	0.46 U	0.41 U	0.38 U
Bis(2-ethylhexyl)phthalate	mg/kg	0.34 J	0.057 J	0.46 U	0.46 U	0.41 U	0.38 U
Butyl benzyl phthalate	mg/kg	0.96 U	0.41 U	0.46 U	0.46 U	0.41 U	0.38 U
Carbazole	mg/kg	0.16 J	0.41 U	0.46 U	0.46 U	0.41 U	0.38 U
Chrysene	mg/kg	1.7 =	0.11 J	0.062 J	0.066 J	0.41 U	0.38 U
Di-n-butyl phthalate	mg/kg	0.5 J	0.41 U	0.46 U	0.46 U	0.41 U	0.38 U
Di-n-octylphthalate	mg/kg	0.96 U	0.41 U	0.46 U	0.46 U	0.41 U	0.38 U
Dibenz(a,h)anthracene	mg/kg	0.32 J	0.41 U	0.46 U	0.46 U	0.41 U	0.38 U
Dibenzofuran	mg/kg	0.96 U	0.41 U	0.46 U	0.46 U	0.41 U	0.38 U
Diethyl phthalate	mg/kg	0.96 U	0.41 U	0.46 U	0.46 U	0.41 U	0.38 U
Dimethyl phthalate	mg/kg	0.96 U	0.41 U	0.46 U	0.46 U	0.41 U	0.38 U
Fluoranthene	mg/kg	2 =	0.17 J	0.093 J	0.1 J	0.41 U	0.057 J
Fluorene	mg/kg	0.96 U	0.41 U	0.46 U	0.46 U	0.41 U	0.38 U
Hexachlorobenzene	mg/kg	0.96 U	0.41 U	0.46 U	0.46 U	0.41 U	0.38 U
Hexachlorobutadiene	mg/kg	0.96 U	0.41 U	0.46 U	0.46 U	0.41 U	0.38 U
Hexachlorocyclopentadiene	mg/kg	0.96 U	0.41 U	0.46 U	0.46 U	0.41 U	0.38 U
Hexachloroethane	mg/kg	0.96 U	0.41 U	0.46 U	0.46 U	0.41 U	0.38 U
Indeno(1,2,3-cd)pyrene	mg/kg	1.1 =	0.075 J	0.46 U	0.059 J	0.41 U	0.38 U
Isophorone	mg/kg	0.96 U	0.41 U	0.46 U	0.46 U	0.41 U	0.38 U
N-Nitroso-di-n-propylamine	mg/kg	0.96 U	0.41 U	0.46 U	0.46 U	0.41 U	0.38 U
N-Nitrosodiphenylamine	mg/kg	0.96 U	0.41 U	0.46 U	0.46 U	0.41 U	0.38 U
Naphthalene	mg/kg	0.96 U	0.41 U	0.46 U	0.46 U	0.41 U	0.38 U
Nitrobenzene	mg/kg	0.96 U	0.41 U	0.46 U	0.46 U	0.41 U	0.38 U
Pentachlorophenol	mg/kg	2.3 U	1 U	1.1 U	1.1 U	1 U	0.93 U
Phenanthrene	mg/kg	0.82 J	0.11 J	0.046 J	0.06 J	0.41 U	0.38 U

Table 4-34. Results for Surface Soil Samples – Semivolatile Organic Constituents (continued)

Location		CD-3/CB-801	Change Houses (CB-12, -23, -8, -22)	Change Houses (CB-12, -23, -8, -22)	Change Houses (CB-12, -23, -8, -22)	Perimeter Area	Perimeter Area
Station		LL1-409	CB22-04	CB23-04	CB23-04	LL1-193	LL1-197
Sample ID		LL1209	LL0732	LL0736	LL0744	LL10901	LL10906
Customer ID		LL1ss-409-1209-SO	LL1ss-22-04-0732-SO	LL1ss-23-04-0736-SO	LL1ss-23-04-0744-SO	LL1ss-193-0901-SO	LL1ss-197-0906-SO
Date		09/29/2000	11/04/1999	11/04/1999	11/04/1999	09/28/2000	09/28/2000
Depth (ft)		0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1
Field Type		Grab	Grab	Grab	Field Duplicate	Grab	Grab
Analyte	Units						
Phenol	mg/kg	0.96 U	0.41 U	0.46 U	0.46 U	0.41 U	0.38 U
Pyrene	mg/kg	1.7 =	0.12 J	0.07 J	0.085 J	0.41 U	0.38 U
bis(2-Chloroethoxy)methane	mg/kg	0.96 U	0.41 U	0.46 U	0.46 U	0.41 U	0.38 U
bis(2-Chloroethyl) ether	mg/kg	0.96 U	0.41 U	0.46 U	0.46 U	0.41 U	0.38 U

"=" = detected.
J = estimated.
U = not detected.
UJ = not detected, detection limit estimated.
R = rejected.
Blank fields indicate no analysis for a particular constituent was conducted.

Table 4-35. Results for Surface Soil Samples – Volatile Organic Constituents

Location		CB-4/4A and CA-6/6A	CB-4/4A and CA-6/6A	CB-4/4A and CA-6/6A	CB-4/4A and CA-6/6A	CB-4/4A and CA-6/6A
Station		LL1-001	LL1-014	LL1-024	LL1-024	LL1-135
Sample ID		LL10800	LL10839	LL10981	LL1112	LL10790
Customer ID		LL1ss-001-0800-SO	LL1ss-014-0839-SO	LL1ss-024-0981-SO	LL1ss-024-1112-SO	LL1ss-135-0790-SO
Date		09/12/2000	09/12/2000	09/26/2000	09/26/2000	09/26/2000
Depth (ft)		0 - 1	0 - 1	0 - 1	0 - 1	0 - 1
Field Type		Grab	Grab	Grab	Field Duplicate	Grab
Analyte	Units					
1,1,1-Trichloroethane	mg/kg	0.006 U	0.0057 U	0.013 U	0.015 U	0.0067 U
1,1,2,2-Tetrachloroethane	mg/kg	0.006 U	0.0057 U	0.013 U	0.015 U	0.0067 U
1,1,2-Trichloroethane	mg/kg	0.006 U	0.0057 U	0.013 U	0.015 U	0.0067 U
1,1-Dichloroethane	mg/kg	0.006 U	0.0057 U	0.013 U	0.015 U	0.0067 U
1,1-Dichloroethene	mg/kg	0.006 U	0.0057 U	0.013 U	0.015 U	0.0067 U
1,2-Dibromoethane	mg/kg	0.006 U	0.0057 U	0.013 U	0.015 U	0.0067 U
1,2-Dichloroethane	mg/kg	0.006 U	0.0057 U	0.013 U	0.015 U	0.0067 U
1,2-Dichloroethene	mg/kg	0.018 =	0.012 =	0.013 U	0.0056 J	0.0012 J
1,2-Dichloropropane	mg/kg	0.006 U	0.0057 U	0.013 U	0.015 U	0.0067 U
2-Butanone	mg/kg	0.012 UJ	0.011 UJ	0.026 UJ	0.031 UJ	0.013 UJ
2-Hexanone	mg/kg	0.012 UJ	0.011 UJ	0.026 UJ	0.031 UJ	0.013 UJ
4-Methyl-2-pentanone	mg/kg	0.012 UJ	0.011 UJ	0.026 UJ	0.031 UJ	0.013 UJ
Acetone	mg/kg	0.012 UJ	0.011 UJ	0.026 UJ	0.031 UJ	0.027 UJ
Benzene	mg/kg	0.006 U	0.0057 U	0.013 U	0.015 U	0.0067 U
Bromochloromethane	mg/kg	0.006 U	0.0057 U	0.013 U	0.015 U	0.0067 U
Bromodichloromethane	mg/kg	0.006 U	0.0057 U	0.013 U	0.015 U	0.0067 U
Bromoform	mg/kg	0.006 U	0.0057 U	0.013 U	0.015 U	0.0067 U
Bromomethane	mg/kg	0.012 U	0.011 U	0.026 U	0.031 U	0.013 U
Carbon disulfide	mg/kg	0.006 U	0.0057 U	0.013 U	0.015 U	0.0067 U
Carbon tetrachloride	mg/kg	0.006 U	0.0057 U	0.013 U	0.015 U	0.0067 U
Chlorobenzene	mg/kg	0.006 U	0.0057 U	0.013 U	0.015 U	0.0067 U
Chloroethane	mg/kg	0.012 U	0.011 U	0.026 U	0.031 U	0.013 U
Chloroform	mg/kg	0.006 U	0.0057 U	0.013 U	0.015 U	0.0067 U
Chloromethane	mg/kg	0.012 U	0.011 U	0.026 U	0.031 U	0.013 U
Dibromochloromethane	mg/kg	0.006 U	0.0057 U	0.013 U	0.015 U	0.0067 U
Dimethylbenzene	mg/kg	0.006 U	0.0057 U	0.013 U	0.015 U	0.0067 U
Ethylbenzene	mg/kg	0.006 U	0.0057 U	0.013 U	0.015 U	0.0067 U
Methylene chloride	mg/kg	0.006 U	0.0057 U	0.013 U	0.015 U	0.0067 U
Styrene	mg/kg	0.006 UJ	0.0057 UJ	0.013 UJ	0.015 UJ	0.0067 UJ
Tetrachloroethene	mg/kg	0.006 U	0.0057 U	0.013 U	0.015 U	0.0067 U
Toluene	mg/kg	0.006 U	0.0057 U	0.013 U	0.015 U	0.0067 U

Table 4-35. Results for Surface Soil Samples – Volatile Organic Constituents (continued)

Location		CB-4/4A and CA-6/6A	CB-4/4A and CA-6/6A	CB-4/4A and CA-6/6A	CB-4/4A and CA-6/6A	CB-4/4A and CA-6/6A
Station		LL1-001	LL1-014	LL1-024	LL1-024	LL1-135
Sample ID		LL10800	LL10839	LL10981	LL1112	LL10790
Customer ID		LL1ss-001-0800-SO	LL1ss-014-0839-SO	LL1ss-024-0981-SO	LL1ss-024-1112-SO	LL1ss-135-0790-SO
Date		09/12/2000	09/12/2000	09/26/2000	09/26/2000	09/26/2000
Depth (ft)		0 - 1	0 - 1	0 - 1	0 - 1	0 - 1
Field Type		Grab	Grab	Grab	Field Duplicate	Grab
Analyte	Units					
Trichloroethene	mg/kg	0.006 U	0.0057 U	0.013 U	0.015 U	0.0067 U
Vinyl chloride	mg/kg	0.012 U	0.011 U	0.026 U	0.031 U	0.013 U
cis-1,3-Dichloropropene	mg/kg	0.006 U	0.0057 U	0.013 U	0.015 U	0.0067 U
trans-1,3-Dichloropropene	mg/kg	0.006 U	0.0057 U	0.013 U	0.015 U	0.0067 U

Table 4-35. Results for Surface Soil Samples – Volatile Organic Constituents (continued)

Location		CB-4/4A and CA-6/6A	CB-4/4A and CA-6/6A	CB-4/4A and CA-6/6A	CB-4/4A and CA-6/6A	CB-4/4A and CA-6/6A
Station		LL1-148	LL1-158	LL1-163	LL1-168	LL1-169
Sample ID		LL10823	LL10847	LL10853	LL10862	LL10869
Customer ID		LL1ss-148-0823-SO	LL1ss-158-0847-SO	LL1ss-163-0853-SO	LL1ss-168-0862-SO	LL1ss-169-0869-SO
Date		09/13/2000	09/13/2000	09/12/2000	09/13/2000	09/18/2000
Depth (ft)		0 - 1	0 - 1	0 - 1	0 - 1	0 - 1
Field Type		Grab	Grab	Grab	Grab	Grab
Analyte	Units					
1,1,1-Trichloroethane	mg/kg	0.0057 U	0.0057 U	0.0052 U	0.006 U	0.0057 U
1,1,2,2-Tetrachloroethane	mg/kg	0.0057 U	0.0057 U	0.0052 U	0.006 U	0.0057 U
1,1,2-Trichloroethane	mg/kg	0.0057 U	0.0057 U	0.0052 U	0.006 U	0.0057 U
1,1-Dichloroethane	mg/kg	0.0057 U	0.0057 U	0.0052 U	0.006 U	0.0057 U
1,1-Dichloroethene	mg/kg	0.0057 U	0.0057 U	0.0052 U	0.006 U	0.0057 U
1,2-Dibromoethane	mg/kg	0.0057 U	0.0057 U	0.0052 U	0.006 U	0.0057 U
1,2-Dichloroethane	mg/kg	0.0057 U	0.0057 U	0.0052 U	0.006 U	0.0057 U
1,2-Dichloroethene	mg/kg	0.011 =	0.0098 =	0.0066 =	0.0081 =	0.0076 =
1,2-Dichloropropane	mg/kg	0.0057 U	0.0057 U	0.0052 U	0.006 U	0.0057 U
2-Butanone	mg/kg	0.011 UJ	0.011 UJ	0.01 UJ	0.012 UJ	0.011 UJ
2-Hexanone	mg/kg	0.011 UJ	0.011 UJ	0.01 UJ	0.012 UJ	0.011 UJ
4-Methyl-2-pentanone	mg/kg	0.011 UJ	0.011 UJ	0.01 UJ	0.012 UJ	0.011 UJ
Acetone	mg/kg	0.011 UJ	0.011 UJ	0.01 UJ	0.012 UJ	0.011 UJ
Benzene	mg/kg	0.0057 U	0.0057 U	0.0052 U	0.006 U	0.0057 U
Bromochloromethane	mg/kg	0.0057 U	0.0057 U	0.0052 U	0.006 U	0.0057 U
Bromodichloromethane	mg/kg	0.0057 U	0.0057 U	0.0052 U	0.006 U	0.0057 U
Bromoform	mg/kg	0.0057 U	0.0057 U	0.0052 U	0.006 U	0.0057 U
Bromomethane	mg/kg	0.011 U	0.011 U	0.01 U	0.012 U	0.011 U
Carbon disulfide	mg/kg	0.0057 U	0.0057 U	0.0052 U	0.006 U	0.0057 U
Carbon tetrachloride	mg/kg	0.0057 U	0.0057 U	0.0052 U	0.006 U	0.0057 U
Chlorobenzene	mg/kg	0.0057 U	0.0057 U	0.0052 U	0.006 U	0.0057 U
Chloroethane	mg/kg	0.011 U	0.011 U	0.01 U	0.012 U	0.011 U
Chloroform	mg/kg	0.0057 U	0.0057 U	0.0052 U	0.006 U	0.0057 U
Chloromethane	mg/kg	0.011 U	0.011 U	0.01 U	0.012 U	0.011 U
Dibromochloromethane	mg/kg	0.0057 U	0.0057 U	0.0052 U	0.006 U	0.0057 U
Dimethylbenzene	mg/kg	0.0057 U	0.0057 U	0.0052 U	0.006 U	0.0057 U
Ethylbenzene	mg/kg	0.0057 U	0.0057 U	0.0052 U	0.006 U	0.0057 U
Methylene chloride	mg/kg	0.0057 U	0.0057 U	0.0052 U	0.006 U	0.0033 J
Styrene	mg/kg	0.0057 UJ	0.0057 UJ	0.0052 UJ	0.006 UJ	0.0057 U
Tetrachloroethene	mg/kg	0.0057 U	0.0057 U	0.0052 U	0.006 U	0.0057 U
Toluene	mg/kg	0.0057 U	0.0057 U	0.0052 U	0.006 U	0.0057 U

Table 4-35. Results for Surface Soil Samples – Volatile Organic Constituents (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-4/4A and CA-6/6A LL1-148 LL10823 LL1ss-148-0823-SO 09/13/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-158 LL10847 LL1ss-158-0847-SO 09/13/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-163 LL10853 LL1ss-163-0853-SO 09/12/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-168 LL10862 LL1ss-168-0862-SO 09/13/2000 0 - 1 Grab	CB-4/4A and CA-6/6A LL1-169 LL10869 LL1ss-169-0869-SO 09/18/2000 0 - 1 Grab
Trichloroethene	mg/kg	0.0057 U	0.0057 U	0.0052 U	0.006 U	0.0057 U
Vinyl chloride	mg/kg	0.011 U	0.011 U	0.01 U	0.012 U	0.011 U
cis-1,3-Dichloropropene	mg/kg	0.0057 U	0.0057 U	0.0052 U	0.006 U	0.0057 U
trans-1,3-Dichloropropene	mg/kg	0.0057 U	0.0057 U	0.0052 U	0.006 U	0.0057 U

Table 4-35. Results for Surface Soil Samples – Volatile Organic Constituents (continued)

Location		CB-4/4A and CA-6/6A	CB-4/4A and CA-6/6A	CB-4/4A and CA-6/6A	CB-4/4A and CA-6/6A	CB-4/4A and CA-6/6A
Station		LL1-173	LL1-202	LL1-227	LL1-231	LL1-233
Sample ID		LL10874	LL10912	LL10944	LL10950	LL10954
Customer ID		LL1ss-173-0874-SO	LL1ss-202-0912-SO	LL1ss-227-0944-SO	LL1ss-231-0950-SO	LL1ss-233-0954-SO
Date		09/18/2000	09/14/2000	09/14/2000	09/14/2000	09/16/2000
Depth (ft)		0 - 1	0 - 1	0 - 1	0 - 1	0 - 1
Field Type		Grab	Grab	Grab	Grab	Grab
Analyte	Units					
1,1,1-Trichloroethane	mg/kg	0.0058 U	0.0057 U	0.0054 U	0.0054 U	0.0054 U
1,1,2,2-Tetrachloroethane	mg/kg	0.0058 U	0.0057 U	0.0054 U	0.0054 U	0.0054 U
1,1,2-Trichloroethane	mg/kg	0.0058 U	0.0057 U	0.0054 U	0.0054 U	0.0054 U
1,1-Dichloroethane	mg/kg	0.0058 U	0.0057 U	0.0054 U	0.0054 U	0.0054 U
1,1-Dichloroethene	mg/kg	0.0058 U	0.0057 U	0.0054 U	0.0054 U	0.0054 U
1,2-Dibromoethane	mg/kg	0.0058 U	0.0057 U	0.0054 U	0.0054 U	0.0054 U
1,2-Dichloroethane	mg/kg	0.0058 U	0.0057 U	0.0054 U	0.0054 U	0.0054 U
1,2-Dichloroethene	mg/kg	0.0083 =	0.0027 J	0.0007 J	0.0039 J	0.0012 J
1,2-Dichloropropane	mg/kg	0.0058 U	0.0057 U	0.0054 U	0.0054 U	0.0054 U
2-Butanone	mg/kg	0.012 UJ	0.011 UJ	0.011 UJ	0.011 UJ	0.011 UJ
2-Hexanone	mg/kg	0.012 UJ	0.011 UJ	0.011 UJ	0.011 UJ	0.011 UJ
4-Methyl-2-pentanone	mg/kg	0.012 UJ	0.011 UJ	0.011 UJ	0.011 UJ	0.011 UJ
Acetone	mg/kg	0.012 UJ	0.011 UJ	0.011 UJ	0.0086 J	0.011 J
Benzene	mg/kg	0.0058 U	0.0057 U	0.0054 U	0.0054 U	0.0054 U
Bromochloromethane	mg/kg	0.0058 U	0.0057 U	0.0054 U	0.0054 U	0.0054 U
Bromodichloromethane	mg/kg	0.0058 U	0.0057 U	0.0054 U	0.0054 U	0.0054 U
Bromoform	mg/kg	0.0058 U	0.0057 U	0.0054 U	0.0054 U	0.0054 U
Bromomethane	mg/kg	0.012 U	0.011 U	0.011 U	0.011 U	0.011 U
Carbon disulfide	mg/kg	0.0058 U	0.0057 U	0.0054 U	0.0054 U	0.0054 U
Carbon tetrachloride	mg/kg	0.0058 U	0.0057 U	0.0054 U	0.0054 U	0.0054 U
Chlorobenzene	mg/kg	0.0058 U	0.0057 U	0.0054 U	0.0054 U	0.0054 U
Chloroethane	mg/kg	0.012 U	0.011 U	0.011 U	0.011 U	0.011 U
Chloroform	mg/kg	0.0058 U	0.0057 U	0.0054 U	0.0054 U	0.0054 U
Chloromethane	mg/kg	0.012 U	0.011 U	0.011 U	0.011 U	0.011 U
Dibromochloromethane	mg/kg	0.0058 U	0.0057 U	0.0054 U	0.0054 U	0.0054 U
Dimethylbenzene	mg/kg	0.0058 U	0.0057 U	0.0054 U	0.0054 U	0.0054 U
Ethylbenzene	mg/kg	0.0058 U	0.0057 U	0.0054 U	0.0054 U	0.0054 U
Methylene chloride	mg/kg	0.0017 J	0.0057 U	0.0054 U	0.0054 U	0.0054 U
Styrene	mg/kg	0.0058 U	0.0057 UJ	0.0054 UJ	0.0054 UJ	0.0054 UJ
Tetrachloroethene	mg/kg	0.0058 U	0.0057 U	0.0054 U	0.0054 U	0.0054 U
Toluene	mg/kg	0.0058 U	0.0057 U	0.0054 U	0.0054 U	0.0054 U

Table 4-35. Results for Surface Soil Samples – Volatile Organic Constituents (continued)

Location		CB-4/4A and CA-6/6A	CB-4/4A and CA-6/6A	CB-4/4A and CA-6/6A	CB-4/4A and CA-6/6A	CB-4/4A and CA-6/6A
Station		LL1-173	LL1-202	LL1-227	LL1-231	LL1-233
Sample ID		LL10874	LL10912	LL10944	LL10950	LL10954
Customer ID		LL1ss-173-0874-SO	LL1ss-202-0912-SO	LL1ss-227-0944-SO	LL1ss-231-0950-SO	LL1ss-233-0954-SO
Date		09/18/2000	09/14/2000	09/14/2000	09/14/2000	09/16/2000
Depth (ft)		0 - 1	0 - 1	0 - 1	0 - 1	0 - 1
Field Type		Grab	Grab	Grab	Grab	Grab
Analyte	Units					
Trichloroethene	mg/kg	0.0058 U	0.0057 U	0.0054 U	0.0054 U	0.0054 U
Vinyl chloride	mg/kg	0.012 U	0.011 U	0.011 U	0.011 U	0.011 U
cis-1,3-Dichloropropene	mg/kg	0.0058 U	0.0057 U	0.0054 U	0.0054 U	0.0054 U
trans-1,3-Dichloropropene	mg/kg	0.0058 U	0.0057 U	0.0054 U	0.0054 U	0.0054 U

Table 4-35. Results for Surface Soil Samples – Volatile Organic Constituents (continued)

Location		CB-4/4A and CA-6/6A	CB-4/4A and CA-6/6A	CB-4/4A and CA-6/6A	CB-4/4A and CA-6/6A	CB-13 and CB-10
Station		LL1-256	LL1-324	LL1-346	LL1-382	LL1-108
Sample ID		LL10984	LL1195	LL1210	LL1211	LL10753
Customer ID		LL1ss-256-0984-SO	LL1ss-324-1195-SO	LL1ss-346-1210-SO	LL1ss-382-1211-SO	LL1ss-108-0753-SO
Date		09/17/2000	09/15/2000	09/29/2000	09/28/2000	09/26/2000
Depth (ft)		0 - 1	0 - 1	0 - 1	0 - 1	0 - 1
Field Type		Grab	Grab	Grab	Grab	Grab
Analyte	Units					
1,1,1-Trichloroethane	mg/kg	0.0057 U	0.0058 U	0.0057 U	0.0059 U	0.0059 U
1,1,2,2-Tetrachloroethane	mg/kg	0.0057 U	0.0058 U	0.0057 U	0.0059 U	0.0059 U
1,1,2-Trichloroethane	mg/kg	0.0057 U	0.0058 U	0.0057 U	0.0059 U	0.0059 U
1,1-Dichloroethane	mg/kg	0.0057 U	0.0058 U	0.0057 U	0.0059 U	0.0059 U
1,1-Dichloroethene	mg/kg	0.0057 U	0.0058 U	0.0057 U	0.0059 U	0.0059 U
1,2-Dibromoethane	mg/kg	0.0057 U	0.0058 U	0.0057 U	0.0059 U	0.0059 U
1,2-Dichloroethane	mg/kg	0.0057 U	0.0058 U	0.0057 U	0.0059 U	0.0059 U
1,2-Dichloroethene	mg/kg	0.0024 J	0.0061 =	0.0048 J	0.0024 J	0.0072 =
1,2-Dichloropropane	mg/kg	0.0057 U	0.0058 U	0.0057 U	0.0059 U	0.0059 U
2-Butanone	mg/kg	0.011 UJ	0.012 UJ	0.011 U	0.012 U	0.012 UJ
2-Hexanone	mg/kg	0.011 UJ	0.012 UJ	0.011 U	0.012 U	0.012 UJ
4-Methyl-2-pentanone	mg/kg	0.011 UJ	0.012 UJ	0.011 U	0.012 U	0.012 UJ
Acetone	mg/kg	0.011 UJ	0.012 UJ	0.011 UJ	0.012 UJ	0.012 UJ
Benzene	mg/kg	0.0057 U	0.0058 U	0.0057 U	0.0059 U	0.0059 U
Bromochloromethane	mg/kg	0.0057 U	0.0058 U	0.0057 U	0.0059 U	0.0059 U
Bromodichloromethane	mg/kg	0.0057 U	0.0058 U	0.0057 U	0.0059 U	0.0059 U
Bromoform	mg/kg	0.0057 U	0.0058 U	0.0057 U	0.0059 U	0.0059 U
Bromomethane	mg/kg	0.011 U	0.012 U	0.011 U	0.012 U	0.012 U
Carbon disulfide	mg/kg	0.0057 U	0.0058 U	0.0057 U	0.0059 U	0.0059 U
Carbon tetrachloride	mg/kg	0.0057 U	0.0058 U	0.0057 U	0.0059 U	0.0059 U
Chlorobenzene	mg/kg	0.0057 U	0.0058 U	0.0057 U	0.0059 U	0.0059 U
Chloroethane	mg/kg	0.011 U	0.012 U	0.011 U	0.012 U	0.012 U
Chloroform	mg/kg	0.0057 U	0.0058 U	0.0057 U	0.0059 U	0.0059 U
Chloromethane	mg/kg	0.011 U	0.012 U	0.011 U	0.012 U	0.012 U
Dibromochloromethane	mg/kg	0.0057 U	0.0058 U	0.0057 U	0.0059 U	0.0059 U
Dimethylbenzene	mg/kg	0.0057 U	0.0058 U	0.0057 U	0.0059 U	0.0059 U
Ethylbenzene	mg/kg	0.0057 U	0.0058 U	0.0057 U	0.0059 U	0.0059 U
Methylene chloride	mg/kg	0.0057 U	0.0058 U	0.0057 U	0.0059 U	0.0059 U
Styrene	mg/kg	0.0057 U	0.0058 UJ	0.0057 U	0.0059 U	0.0059 UJ
Tetrachloroethene	mg/kg	0.0057 U	0.0058 U	0.0057 U	0.0059 U	0.0059 U
Toluene	mg/kg	0.0057 U	0.0058 U	0.0057 U	0.0059 U	0.0031 J

Table 4-35. Results for Surface Soil Samples – Volatile Organic Constituents (continued)

Location		CB-4/4A and CA-6/6A	CB-4/4A and CA-6/6A	CB-4/4A and CA-6/6A	CB-4/4A and CA-6/6A	CB-13 and CB-10
Station		LL1-256	LL1-324	LL1-346	LL1-382	LL1-108
Sample ID		LL10984	LL1195	LL1210	LL1211	LL10753
Customer ID		LL1ss-256-0984-SO	LL1ss-324-1195-SO	LL1ss-346-1210-SO	LL1ss-382-1211-SO	LL1ss-108-0753-SO
Date		09/17/2000	09/15/2000	09/29/2000	09/28/2000	09/26/2000
Depth (ft)		0 - 1	0 - 1	0 - 1	0 - 1	0 - 1
Field Type		Grab	Grab	Grab	Grab	Grab
Analyte	Units					
Trichloroethene	mg/kg	0.0057 U	0.0058 U	0.0067 =	0.0026 J	0.0059 U
Vinyl chloride	mg/kg	0.011 U	0.012 U	0.011 U	0.012 U	0.012 U
cis-1,3-Dichloropropene	mg/kg	0.0057 U	0.0058 U	0.0057 U	0.0059 U	0.0059 U
trans-1,3-Dichloropropene	mg/kg	0.0057 U	0.0058 U	0.0057 U	0.0059 U	0.0059 U

Table 4-35. Results for Surface Soil Samples – Volatile Organic Constituents (continued)

Location		CB-13 and CB-10	CB-13 and CB-10	CB-13 and CB-10	CB-13 and CB-10	CB-13 and CB-10
Station		LL1-108	LL1-120	LL1-130	LL1-130	LL1-222
Sample ID		LL1120	LL10773	LL10783	LL1121	LL10936
Customer ID		LL1ss-108-1120-SO	LL1ss-120-0773-SO	LL1ss-130-0783-SO	LL1ss-130-1121-SO	LL1ss-222-0936-SO
Date		09/26/2000	09/27/2000	09/27/2000	09/27/2000	09/26/2000
Depth (ft)		0 - 1	0 - 1	0 - 1	0 - 1	0 - 1
Field Type		Field Duplicate	Grab	Grab	Field Duplicate	Grab
Analyte	Units					
1,1,1-Trichloroethane	mg/kg	0.0058 U	0.0055 U	0.0062 U	0.006 U	0.0055 U
1,1,2,2-Tetrachloroethane	mg/kg	0.0058 U	0.0055 U	0.0062 U	0.006 U	0.0055 U
1,1,2-Trichloroethane	mg/kg	0.0058 U	0.0055 U	0.0062 U	0.006 U	0.0055 U
1,1-Dichloroethane	mg/kg	0.0058 U	0.0055 U	0.0062 U	0.006 U	0.0055 U
1,1-Dichloroethene	mg/kg	0.0058 U	0.0055 U	0.0062 U	0.006 U	0.0055 U
1,2-Dibromoethane	mg/kg	0.0058 U	0.0055 U	0.0062 U	0.006 U	0.0055 U
1,2-Dichloroethane	mg/kg	0.0058 U	0.0055 U	0.0062 U	0.006 U	0.0055 U
1,2-Dichloroethene	mg/kg	0.0058 U	0.0028 J	0.0046 J	0.0033 J	0.0055 U
1,2-Dichloropropane	mg/kg	0.0058 U	0.0055 U	0.0062 U	0.006 U	0.0055 U
2-Butanone	mg/kg	0.012 UJ	0.011 U	0.012 U	0.012 U	0.011 UJ
2-Hexanone	mg/kg	0.012 UJ	0.011 U	0.012 U	0.012 U	0.011 UJ
4-Methyl-2-pentanone	mg/kg	0.012 UJ	0.011 U	0.012 U	0.012 U	0.011 UJ
Acetone	mg/kg	0.012 UJ	0.011 UJ	0.012 UJ	0.012 UJ	0.011 UJ
Benzene	mg/kg	0.0058 U	0.0055 U	0.0062 U	0.006 U	0.0055 U
Bromochloromethane	mg/kg	0.0058 U	0.0055 U	0.0062 U	0.006 U	0.0055 U
Bromodichloromethane	mg/kg	0.0058 U	0.0055 U	0.0062 U	0.006 U	0.0055 U
Bromoform	mg/kg	0.0058 U	0.0055 U	0.0062 U	0.006 U	0.0055 U
Bromomethane	mg/kg	0.012 U	0.011 U	0.012 U	0.012 U	0.011 U
Carbon disulfide	mg/kg	0.0058 U	0.0055 U	0.0062 U	0.006 U	0.0055 U
Carbon tetrachloride	mg/kg	0.0058 U	0.0055 U	0.0062 U	0.006 U	0.0055 U
Chlorobenzene	mg/kg	0.0058 U	0.0055 U	0.0062 U	0.006 U	0.0055 U
Chloroethane	mg/kg	0.012 U	0.011 U	0.012 U	0.012 U	0.011 U
Chloroform	mg/kg	0.0058 U	0.0055 U	0.0062 U	0.006 U	0.0055 U
Chloromethane	mg/kg	0.012 U	0.011 U	0.012 U	0.012 U	0.011 U
Dibromochloromethane	mg/kg	0.0058 U	0.0055 U	0.0062 U	0.006 U	0.0055 U
Dimethylbenzene	mg/kg	0.0058 U	0.0055 U	0.0062 U	0.006 U	0.0055 U
Ethylbenzene	mg/kg	0.0058 U	0.0055 U	0.0062 U	0.006 U	0.0055 U
Methylene chloride	mg/kg	0.0058 U	0.0055 U	0.0062 U	0.006 U	0.0055 U
Styrene	mg/kg	0.0058 UJ	0.0055 U	0.0062 U	0.006 U	0.0055 UJ
Tetrachloroethene	mg/kg	0.0058 U	0.0055 U	0.0062 U	0.006 U	0.0055 U
Toluene	mg/kg	0.0058 U	0.0055 U	0.0062 U	0.006 U	0.0055 U

Table 4-35. Results for Surface Soil Samples – Volatile Organic Constituents (continued)

Location		CB-13 and CB-10	CB-13 and CB-10	CB-13 and CB-10	CB-13 and CB-10	CB-13 and CB-10
Station		LL1-108	LL1-120	LL1-130	LL1-130	LL1-222
Sample ID		LL1120	LL10773	LL10783	LL1121	LL10936
Customer ID		LL1ss-108-1120-SO	LL1ss-120-0773-SO	LL1ss-130-0783-SO	LL1ss-130-1121-SO	LL1ss-222-0936-SO
Date		09/26/2000	09/27/2000	09/27/2000	09/27/2000	09/26/2000
Depth (ft)		0 - 1	0 - 1	0 - 1	0 - 1	0 - 1
Field Type		Field Duplicate	Grab	Grab	Field Duplicate	Grab
Analyte	Units					
Trichloroethene	mg/kg	0.0058 U	0.0033 J	0.0031 J	0.006 U	0.0055 U
Vinyl chloride	mg/kg	0.012 U	0.011 U	0.012 U	0.012 U	0.011 U
cis-1,3-Dichloropropene	mg/kg	0.0058 U	0.0055 U	0.0062 U	0.006 U	0.0055 U
trans-1,3-Dichloropropene	mg/kg	0.0058 U	0.0055 U	0.0062 U	0.006 U	0.0055 U

Table 4-35. Results for Surface Soil Samples – Volatile Organic Constituents (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-13 and CB-10 LL1-226 LL10942 LL1ss-226-0942-SO 09/19/2000 0 - 1 Grab	CB-13 and CB-10 LL1-369 LL1212 LL1ss-369-1212-SO 09/28/2000 0 - 1 Grab	CB-14, CB-17, and CB-15 LL1-091 LL10728 LL1ss-091-0728-SO 09/25/2000 0 - 1 Grab	CB-14, CB-17, and CB-15 LL1-094 LL10732 LL1ss-094-0732-SO 09/25/2000 0 - 1 Grab	CB-14, CB-17, and CB-15 LL1-101 LL10743 LL1ss-101-0743-SO 09/20/2000 0 - 1 Grab
1,1,1-Trichloroethane	mg/kg	0.0053 U	0.0062 U	0.0057 U	0.0058 U	0.0055 U
1,1,2,2-Tetrachloroethane	mg/kg	0.0053 U	0.0062 U	0.0057 U	0.0058 U	0.0055 U
1,1,2-Trichloroethane	mg/kg	0.0053 U	0.0062 U	0.0057 U	0.0058 U	0.0055 U
1,1-Dichloroethane	mg/kg	0.0053 U	0.0062 U	0.0057 U	0.0058 U	0.0055 U
1,1-Dichloroethene	mg/kg	0.0053 U	0.0062 U	0.0057 U	0.0058 U	0.0055 U
1,2-Dibromoethane	mg/kg	0.0053 U	0.0062 U	0.0057 U	0.0058 U	0.0055 U
1,2-Dichloroethane	mg/kg	0.0053 U	0.0062 U	0.0057 U	0.0058 U	0.0055 U
1,2-Dichloroethene	mg/kg	0.0018 J	0.0034 J	0.0031 J	0.0018 J	0.0016 J
1,2-Dichloropropane	mg/kg	0.0053 U	0.0062 U	0.0057 U	0.0058 U	0.0055 U
2-Butanone	mg/kg	0.011 UJ	0.012 U	0.011 UJ	0.012 UJ	0.011 UJ
2-Hexanone	mg/kg	0.011 UJ	0.012 U	0.011 UJ	0.012 UJ	0.011 UJ
4-Methyl-2-pentanone	mg/kg	0.011 UJ	0.012 U	0.011 UJ	0.012 UJ	0.011 UJ
Acetone	mg/kg	0.005 J	0.012 UJ	0.011 UJ	0.012 UJ	0.011 UJ
Benzene	mg/kg	0.0053 U	0.0062 U	0.0057 U	0.0058 U	0.0055 U
Bromochloromethane	mg/kg	0.0053 U	0.0062 U	0.0057 U	0.0058 U	0.0055 U
Bromodichloromethane	mg/kg	0.0053 U	0.0062 U	0.0057 U	0.0058 U	0.0055 U
Bromoform	mg/kg	0.0053 U	0.0062 U	0.0057 U	0.0058 U	0.0055 U
Bromomethane	mg/kg	0.011 U	0.012 U	0.011 U	0.012 U	0.011 U
Carbon disulfide	mg/kg	0.0053 U	0.0062 U	0.0057 U	0.0058 U	0.0055 U
Carbon tetrachloride	mg/kg	0.0053 U	0.0062 U	0.0057 U	0.0058 U	0.0055 U
Chlorobenzene	mg/kg	0.0053 U	0.0062 U	0.0057 U	0.0058 U	0.0055 U
Chloroethane	mg/kg	0.011 U	0.012 U	0.011 U	0.012 U	0.011 U
Chloroform	mg/kg	0.0053 U	0.0062 U	0.0057 U	0.0058 U	0.0055 U
Chloromethane	mg/kg	0.011 U	0.012 U	0.011 U	0.012 U	0.011 U
Dibromochloromethane	mg/kg	0.0053 U	0.0062 U	0.0057 U	0.0058 U	0.0055 U
Dimethylbenzene	mg/kg	0.0053 U	0.0062 U	0.0057 U	0.0058 U	0.0055 U
Ethylbenzene	mg/kg	0.0053 U	0.0062 U	0.0057 U	0.0058 U	0.0055 U
Methylene chloride	mg/kg	0.0022 J	0.0062 U	0.0057 U	0.0058 U	0.0019 J
Styrene	mg/kg	0.0053 U	0.0062 U	0.0057 UJ	0.0058 UJ	0.0055 U
Tetrachloroethene	mg/kg	0.0053 U	0.0062 U	0.0057 U	0.0058 U	0.0055 U
Toluene	mg/kg	0.0053 U	0.0044 J	0.0017 J	0.0058 U	0.0055 U

Table 4-35. Results for Surface Soil Samples – Volatile Organic Constituents (continued)

Location		CB-13 and CB-10	CB-13 and CB-10	CB-14, CB-17, and CB-15	CB-14, CB-17, and CB-15	CB-14, CB-17, and CB-15
Station		LL1-226	LL1-369	LL1-091	LL1-094	LL1-101
Sample ID		LL10942	LL1212	LL10728	LL10732	LL10743
Customer ID		LL1ss-226-0942-SO	LL1ss-369-1212-SO	LL1ss-091-0728-SO	LL1ss-094-0732-SO	LL1ss-101-0743-SO
Date		09/19/2000	09/28/2000	09/25/2000	09/25/2000	09/20/2000
Depth (ft)		0 - 1	0 - 1	0 - 1	0 - 1	0 - 1
Field Type		Grab	Grab	Grab	Grab	Grab
Analyte	Units					
Trichloroethene	mg/kg	0.0053 U	0.0018 J	0.0057 U	0.0058 U	0.0055 U
Vinyl chloride	mg/kg	0.011 U	0.012 U	0.011 U	0.012 U	0.011 U
cis-1,3-Dichloropropene	mg/kg	0.0053 U	0.0062 U	0.0057 U	0.0058 U	0.0055 U
trans-1,3-Dichloropropene	mg/kg	0.0053 U	0.0062 U	0.0057 U	0.0058 U	0.0055 U

Table 4-35. Results for Surface Soil Samples – Volatile Organic Constituents (continued)

Location		CB-14, CB-17, and CB-15	CD-3/CB-801	CD-3/CB-801	CD-3/CB-801	CD-3/CB-801
Station		LL1-103	LL1-027	LL1-179	LL1-181	LL1-185
Sample ID		LL10745	LL10882	LL10884	LL10886	LL10891
Customer ID		LL1ss-103-0745-SO	LL1ss-027-0882-SO	LL1ss-179-0884-SO	LL1ss-181-0886-SO	LL1ss-185-0891-SO
Date		09/19/2000	09/17/2000	09/17/2000	09/17/2000	09/18/2000
Depth (ft)		0 - 1	0 - 1	0 - 1	0 - 1	0 - 1
Field Type		Grab	Grab	Grab	Grab	Grab
Analyte	Units					
1,1,1-Trichloroethane	mg/kg	0.0053 U	0.0058 U	0.0059 U	0.0059 U	0.0059 U
1,1,2,2-Tetrachloroethane	mg/kg	0.0053 U	0.0058 U	0.0059 U	0.0059 U	0.0059 U
1,1,2-Trichloroethane	mg/kg	0.0053 U	0.0058 U	0.0059 U	0.0059 U	0.0059 U
1,1-Dichloroethane	mg/kg	0.0053 U	0.0058 U	0.0059 U	0.0059 U	0.0059 U
1,1-Dichloroethene	mg/kg	0.0053 U	0.0058 U	0.0059 U	0.0059 U	0.0059 U
1,2-Dibromoethane	mg/kg	0.0053 U	0.0058 U	0.0059 U	0.0059 U	0.0059 U
1,2-Dichloroethane	mg/kg	0.0053 U	0.0058 U	0.0059 U	0.0059 U	0.0059 U
1,2-Dichloroethene	mg/kg	0.003 J	0.0079 =	0.0056 J	0.0046 J	0.0045 J
1,2-Dichloropropane	mg/kg	0.0053 U	0.0058 U	0.0059 U	0.0059 U	0.0059 U
2-Butanone	mg/kg	0.011 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ
2-Hexanone	mg/kg	0.011 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ
4-Methyl-2-pentanone	mg/kg	0.011 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ
Acetone	mg/kg	0.011 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ
Benzene	mg/kg	0.0053 U	0.0058 U	0.0059 U	0.0059 U	0.0059 U
Bromochloromethane	mg/kg	0.0053 U	0.0058 U	0.0059 U	0.0059 U	0.0059 U
Bromodichloromethane	mg/kg	0.0053 U	0.0058 U	0.0059 U	0.0059 U	0.0059 U
Bromoform	mg/kg	0.0053 U	0.0058 U	0.0059 U	0.0059 U	0.0059 U
Bromomethane	mg/kg	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U
Carbon disulfide	mg/kg	0.0053 U	0.0058 U	0.0059 U	0.0059 U	0.0059 U
Carbon tetrachloride	mg/kg	0.0053 U	0.0058 U	0.0059 U	0.0059 U	0.0059 U
Chlorobenzene	mg/kg	0.0053 U	0.0058 U	0.0059 U	0.0059 U	0.0059 U
Chloroethane	mg/kg	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U
Chloroform	mg/kg	0.0053 U	0.0058 U	0.0059 U	0.0059 U	0.0059 U
Chloromethane	mg/kg	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U
Dibromochloromethane	mg/kg	0.0053 U	0.0058 U	0.0059 U	0.0059 U	0.0059 U
Dimethylbenzene	mg/kg	0.0053 U	0.0058 U	0.0059 U	0.0059 U	0.0059 U
Ethylbenzene	mg/kg	0.0053 U	0.0058 U	0.0059 U	0.0059 U	0.0059 U
Methylene chloride	mg/kg	0.0021 J	0.0058 U	0.0059 U	0.0059 U	0.003 J
Styrene	mg/kg	0.0053 U	0.0058 UJ	0.0059 UJ	0.0059 UJ	0.0059 U
Tetrachloroethene	mg/kg	0.0053 U	0.0058 U	0.0059 U	0.0059 U	0.0059 U
Toluene	mg/kg	0.0053 U	0.0058 U	0.0059 U	0.0059 U	0.0059 U

Table 4-35. Results for Surface Soil Samples – Volatile Organic Constituents (continued)

Location		CB-14, CB-17, and CB-15	CD-3/CB-801	CD-3/CB-801	CD-3/CB-801	CD-3/CB-801
Station		LL1-103	LL1-027	LL1-179	LL1-181	LL1-185
Sample ID		LL10745	LL10882	LL10884	LL10886	LL10891
Customer ID		LL1ss-103-0745-SO	LL1ss-027-0882-SO	LL1ss-179-0884-SO	LL1ss-181-0886-SO	LL1ss-185-0891-SO
Date		09/19/2000	09/17/2000	09/17/2000	09/17/2000	09/18/2000
Depth (ft)		0 - 1	0 - 1	0 - 1	0 - 1	0 - 1
Field Type		Grab	Grab	Grab	Grab	Grab
Analyte	Units					
Trichloroethene	mg/kg	0.0053 U	0.0058 U	0.0059 U	0.0059 U	0.0059 U
Vinyl chloride	mg/kg	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U
cis-1,3-Dichloropropene	mg/kg	0.0053 U	0.0058 U	0.0059 U	0.0059 U	0.0059 U
trans-1,3-Dichloropropene	mg/kg	0.0053 U	0.0058 U	0.0059 U	0.0059 U	0.0059 U

Table 4-35. Results for Surface Soil Samples – Volatile Organic Constituents (continued)

Location		CD-3/CB-801	Change Houses (CB-12, -23, -8, -22)	Change Houses (CB-12, -23, -8, -22)	Change Houses (CB-12, -23, -8, -22)	Perimeter Area	Perimeter Area
Station		LL1-409	CB22-04	CB23-04	CB23-04	LL1-193	LL1-197
Sample ID		LL1209	LL0732	LL0736	LL0744	LL10901	LL10906
Customer ID		LL1ss-409-1209-SO	LL1ss-22-04-0732-SO	LL1ss-23-04-0736-SO	LL1ss-23-04-0744-SO	LL1ss-193-0901-SO	LL1ss-197-0906-SO
Date		09/29/2000	11/04/1999	11/04/1999	11/04/1999	09/28/2000	09/28/2000
Depth (ft)		0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1
Field Type		Grab	Grab	Grab	Field Duplicate	Grab	Grab
Analyte	Units						
1,1,1-Trichloroethane	mg/kg	0.0058 U	0.0063 U	0.0069 U	0.0069 U	0.0063 U	0.0058 U
1,1,2,2-Tetrachloroethane	mg/kg	0.0058 UJ	0.0063 UJ	0.0069 UJ	0.0069 UJ	0.0063 UJ	0.0058 UJ
1,1,2-Trichloroethane	mg/kg	0.0058 U	0.0063 U	0.0069 U	0.0069 U	0.0063 U	0.0058 U
1,1-Dichloroethane	mg/kg	0.0058 U	0.0063 U	0.0069 U	0.0069 U	0.0063 U	0.0058 U
1,1-Dichloroethene	mg/kg	0.0058 U	0.0063 U	0.0069 U	0.0069 U	0.0063 U	0.0058 U
1,2-Dibromoethane	mg/kg	0.0058 U	0.0063 U	0.0069 U	0.0069 U	0.0063 U	0.0058 U
1,2-Dichloroethane	mg/kg	0.0058 U	0.0063 U	0.0069 U	0.0069 U	0.0063 U	0.0058 U
1,2-Dichloroethene	mg/kg	0.00072 J	0.0063 U	0.0069 U	0.0069 U	0.0029 J	0.0041 J
1,2-Dichloropropane	mg/kg	0.0058 U	0.0063 U	0.0069 U	0.0069 U	0.0063 U	0.0058 U
2-Butanone	mg/kg	0.012 U	0.013 UJ	0.014 UJ	0.014 UJ	0.013 U	0.012 U
2-Hexanone	mg/kg	0.012 UJ	0.013 UJ	0.014 UJ	0.014 UJ	0.013 U	0.012 U
4-Methyl-2-pentanone	mg/kg	0.012 U	0.013 U	0.014 U	0.014 U	0.013 U	0.012 U
Acetone	mg/kg	0.012 UJ	0.013 UJ	0.014 UJ	0.014 UJ	0.013 UJ	0.012 UJ
Benzene	mg/kg	0.0058 U	0.0063 U	0.0069 U	0.0069 U	0.0063 U	0.0058 U
Bromochloromethane	mg/kg	0.0058 U	0.0063 U	0.0069 U	0.0069 U	0.0063 U	0.0058 U
Bromodichloromethane	mg/kg	0.0058 U	0.0063 U	0.0069 U	0.0069 U	0.0063 U	0.0058 U
Bromoform	mg/kg	0.0058 U	0.0063 U	0.0069 U	0.0069 U	0.0063 U	0.0058 U
Bromomethane	mg/kg	0.012 U	0.013 U	0.014 U	0.014 U	0.013 U	0.012 U
Carbon disulfide	mg/kg	0.0058 U	0.0063 U	0.0069 U	0.0069 U	0.0063 U	0.0058 U
Carbon tetrachloride	mg/kg	0.0058 U	0.0063 U	0.0069 U	0.0069 U	0.0063 U	0.0058 U
Chlorobenzene	mg/kg	0.0058 U	0.0063 U	0.0069 U	0.0069 U	0.0063 U	0.0058 U
Chloroethane	mg/kg	0.012 U	0.013 U	0.014 U	0.014 U	0.013 U	0.012 U
Chloroform	mg/kg	0.0058 U	0.0063 U	0.0069 U	0.0069 U	0.0063 U	0.0058 U
Chloromethane	mg/kg	0.012 U	0.013 U	0.014 U	0.014 U	0.013 U	0.012 U
Dibromochloromethane	mg/kg	0.0058 U	0.0063 U	0.0069 U	0.0069 U	0.0063 U	0.0058 U
Dimethylbenzene	mg/kg	0.0058 U	0.0063 U	0.0069 U	0.0069 U	0.0063 U	0.0058 U
Ethylbenzene	mg/kg	0.0058 U	0.0063 U	0.0069 U	0.0069 U	0.0063 U	0.0058 U
Methylene chloride	mg/kg	0.0058 U	0.001 J	0.0019 J	0.0047 J	0.0063 U	0.0058 U
Styrene	mg/kg	0.0058 U	0.0063 U	0.0069 U	0.0069 U	0.0063 U	0.0058 U
Tetrachloroethene	mg/kg	0.0058 U	0.0063 U	0.0069 U	0.0069 U	0.0063 U	0.0058 U

Table 4-35. Results for Surface Soil Samples – Volatile Organic Constituents (continued)

Location		CD-3/CB-801	Change Houses (CB-12, -23, -8, -22)	Change Houses (CB-12, -23, -8, -22)	Change Houses (CB-12, -23, -8, -22)	Perimeter Area	Perimeter Area
Station		LL1-409	CB22-04	CB23-04	CB23-04	LL1-193	LL1-197
Sample ID		LL1209	LL0732	LL0736	LL0744	LL10901	LL10906
Customer ID		LL1ss-409-1209-SO	LL1ss-22-04-0732-SO	LL1ss-23-04-0736-SO	LL1ss-23-04-0744-SO	LL1ss-193-0901-SO	LL1ss-197-0906-SO
Date		09/29/2000	11/04/1999	11/04/1999	11/04/1999	09/28/2000	09/28/2000
Depth (ft)		0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1
Field Type		Grab	Grab	Grab	Field Duplicate	Grab	Grab
Analyte	Units						
Toluene	mg/kg	0.0058 U	0.0031 J	0.0015 J	0.003 J	0.0063 U	0.0058 U
Trichloroethene	mg/kg	0.0044 J	0.0063 U	0.0069 U	0.0069 U	0.0024 J	0.0066 =
Vinyl chloride	mg/kg	0.012 U	0.013 U	0.014 U	0.014 U	0.013 U	0.012 U
cis-1,3-Dichloropropene	mg/kg	0.0058 U	0.0063 U	0.0069 U	0.0069 U	0.0063 U	0.0058 U
trans-1,3-Dichloropropene	mg/kg	0.0058 U	0.0063 U	0.0069 U	0.0069 U	0.0063 U	0.0058 U

"=" = detected.
J = estimated.
U = not detected.
UJ = not detected, detection limit estimated.
R = rejected.
Blank fields indicate no analysis for a particular constituent was conducted.

Table 4-36. Results for Subsurface Soil Samples – Propellant and Explosive Constituents

Location		CB-4/4A and CA-6/6A	CB-4/4A and CA-6/6A	CB-4/4A and CA-6/6A	CB-4/4A and CA-6/6A	CB-4/4A and CA-6/6A
Station		LL1-001	LL1-002	LL1-004	LL1-006	LL1-007
Sample ID		LL10801	LL10804	LL10809	LL10814	LL10816
Customer ID		LL1so-001-0801-SO	LL1so-002-0804-SO	LL1so-004-0809-SO	LL1so-006-0814-SO	LL1so-007-0816-SO
Date		09/19/2000	09/19/2000	09/19/2000	09/19/2000	09/19/2000
Depth (ft)		1 - 2	1 - 2	1 - 3	1 - 2	1 - 2
Field Type		Grab	Grab	Grab	Grab	Grab
Analyte	Units					
1,3,5-Trinitrobenzene	mg/kg	11 J	0.25 U	0.25 U	0.25 U	0.25 U
1,3-Dinitrobenzene	mg/kg	25 U	0.25 U	0.25 U	0.25 U	0.25 U
2,4,6-Trinitrotoluene	mg/kg	470 =	0.92 =	0.14 J	0.13 J	0.71 =
2,4-Dinitrotoluene	mg/kg	25 U	0.25 U	0.25 U	0.25 U	0.25 U
2,6-Dinitrotoluene	mg/kg	25 U	0.25 U	0.25 U	0.25 U	0.25 U
2-Amino-4,6-dinitrotoluene	mg/kg	25 U	0.57 =	0.1 J	0.19 J	0.12 J
2-Nitrotoluene	mg/kg	25 U	0.25 U	0.25 U	0.25 U	0.25 U
3-Nitrotoluene	mg/kg	25 U	0.25 U	0.25 U	0.25 U	0.25 U
4-Amino-2,6-dinitrotoluene	mg/kg	25 U	0.67 =	0.15 J	0.2 J	0.32 U
4-Nitrotoluene	mg/kg	25 U	0.25 U	0.25 U	0.25 U	0.25 U
HMX	mg/kg	50 U	0.5 U	0.5 U	0.5 U	0.5 U
Nitrobenzene	mg/kg	25 U	0.25 U	0.25 U	0.25 U	0.25 U
Nitrocellulose	mg/kg	8.2 =	0.99 J	2 U	1.4 J	0.7 J
Nitroglycerin	mg/kg	250 U	2.5 U	2.5 U	2.5 U	2.5 U
Nitroguanidine	mg/kg	0.25 U	0.25 U	0.25 UJ	0.25 U	0.25 U
RDX	mg/kg	29 J	0.5 U	0.27 J	0.5 U	0.5 U
Tetryl	mg/kg	65 U	0.65 U	0.65 U	0.65 U	0.65 U

Table 4-36. Results for Subsurface Soil Samples – Propellant and Explosive Constituents (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-4/4A and CA-6/6A LL1-008 LL10818 LL1so-008-0818-SO 09/19/2000 1 - 1 Grab	CB-4/4A and CA-6/6A LL1-008 LL1113 LL1so-008-1113-SO 09/19/2000 1 - 1 Field Duplicate	CB-4/4A and CA-6/6A LL1-011 LL10838 LL1so-011-0838-SO 09/19/2000 1 - 2 Grab	CB-4/4A and CA-6/6A LL1-011 LL1115 LL1so-011-1115-SO 09/19/2000 1 - 2 Field Duplicate	CB-4/4A and CA-6/6A LL1-015 LL10835 LL1so-015-0835-SO 09/19/2000 1 - 2 Grab
1,3,5-Trinitrobenzene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	3.8 U
1,3-Dinitrobenzene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	3.8 U
2,4,6-Trinitrotoluene	mg/kg	0.25 U	0.25 U	1.2 =	1.2 =	110 =
2,4-Dinitrotoluene	mg/kg	0.25 U	0.068 J	0.25 U	0.25 U	3.8 U
2,6-Dinitrotoluene	mg/kg	0.25 U	0.25 U	0.14 J	0.16 J	3.8 U
2-Amino-4,6-dinitrotoluene	mg/kg	0.25 U	0.25 U	0.46 =	0.46 =	2 J
2-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	3.8 U
3-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	3.8 U
4-Amino-2,6-dinitrotoluene	mg/kg	0.25 U	0.25 U	0.84 =	0.87 =	25 U
4-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	3.8 U
HMX	mg/kg	0.5 U	0.5 U	0.62 =	0.51 =	8.1 =
Nitrobenzene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	3.8 U
Nitrocellulose	mg/kg	2 U	2 U	2.4 =	2.8 =	6 =
Nitroglycerin	mg/kg	2.5 U	2.5 U	2.5 U	2.5 U	38 U
Nitroguanidine	mg/kg	0.25 UJ	0.25 U	0.25 UJ	0.25 UJ	0.25 UJ
RDX	mg/kg	0.5 U	0.5 U	3.5 =	1.4 =	58 =
Tetryl	mg/kg	0.65 U	0.65 U	0.65 U	0.65 U	9.8 U

Table 4-36. Results for Subsurface Soil Samples – Propellant and Explosive Constituents (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-4/4A and CA-6/6A LL1-023 LL10789 LL1so-023-0789-SO 09/19/2000 1 - 1 Grab	CB-4/4A and CA-6/6A LL1-265 LL1233 LL1so-265-1233-SO 09/30/2000 1 - 3 Grab	CB-4/4A and CA-6/6A LL1-265 LL1279 LL1so-265-1279-SO 09/30/2000 1 - 3 Field Duplicate	CB-4/4A and CA-6/6A LL1-266 LL1247 LL1so-266-1247-SO 09/30/2000 1 - 2 Grab	CB-4/4A and CA-6/6A LL1-268 LL1246 LL1so-268-1246-SO 09/30/2000 1 - 3 Grab
1,3,5-Trinitrobenzene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
1,3-Dinitrobenzene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2,4,6-Trinitrotoluene	mg/kg	0.071 J	1.1 =	1.2 =	0.63 =	0.68 =
2,4-Dinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2,6-Dinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2-Amino-4,6-dinitrotoluene	mg/kg	0.21 J	0.24 J	0.17 J	0.25 U	0.25 U
2-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
3-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
4-Amino-2,6-dinitrotoluene	mg/kg	0.18 J	0.55 U	0.5 U	0.25 U	0.23 J
4-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
HMX	mg/kg	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Nitrobenzene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Nitrocellulose	mg/kg	2 U	2 U	2 U	2 R	2 U
Nitroglycerin	mg/kg	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Nitroguanidine	mg/kg	0.25 UJ	0.25 U	0.25 U	0.25 U	0.25 U
RDX	mg/kg	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetryl	mg/kg	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U

Table 4-36. Results for Subsurface Soil Samples – Propellant and Explosive Constituents (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-4/4A and CA-6/6A LL1-325 LL1133 LL1so-325-1133-SO 09/29/2000 1 - 3 Field Duplicate	CB-4/4A and CA-6/6A LL1-325 LL1245 LL1so-325-1245-SO 09/29/2000 1 - 3 Grab	CB-13 and CB-10 LL1-109 LL1235 LL1so-109-1235-SO 09/28/2000 1 - 2 Grab	CB-13 and CB-10 LL1-118 LL1345 LL1so-118-1345-SO 10/03/2000 2 - 2 Grab	CB-14, CB-17, and CB-15 LL1-087 LL1216 LL1so-087-1216-SO 09/28/2000 1 - 3 Grab
1,3,5-Trinitrobenzene	mg/kg	150 U	150 U	0.25 U	0.25 U	0.25 U
1,3-Dinitrobenzene	mg/kg	150 U	150 U	0.25 U	0.25 U	0.25 U
2,4,6-Trinitrotoluene	mg/kg	3,700 =	4,500 =	0.25 U	0.25 U	0.088 J
2,4-Dinitrotoluene	mg/kg	150 U	150 U	0.086 J	0.25 U	0.13 J
2,6-Dinitrotoluene	mg/kg	150 U	150 U	0.25 U	0.25 U	0.25 U
2-Amino-4,6-dinitrotoluene	mg/kg	150 U	150 U	0.25 U	0.25 U	0.25 U
2-Nitrotoluene	mg/kg	150 U	150 U	0.25 U	0.25 U	0.25 U
3-Nitrotoluene	mg/kg	150 U	150 U	0.25 U	0.25 U	0.25 U
4-Amino-2,6-dinitrotoluene	mg/kg	150 U	150 U	0.25 U	0.25 U	0.25 U
4-Nitrotoluene	mg/kg	150 U	150 U	0.25 U	0.25 U	0.25 U
HMX	mg/kg	300 U	300 U	0.5 U	0.5 U	0.5 U
Nitrobenzene	mg/kg	150 U	150 U	0.25 U	0.25 U	0.25 U
Nitrocellulose	mg/kg	75.7 =	29.3 =	29.3 =	2 U	8.8 =
Nitroglycerin	mg/kg	1,500 U	1,500 U	2.5 U	2.5 U	2.5 U
Nitroguanidine	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
RDX	mg/kg	300 U	300 U	0.5 U	0.5 U	0.5 U
Tetryl	mg/kg	390 U	390 U	0.65 U	0.65 U	0.65 U

Table 4-36. Results for Subsurface Soil Samples – Propellant and Explosive Constituents (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	Railroad Bed Locations LL1-238 LL1342 LL1so-238-1342-SO 10/03/2000 2 - 2 Grab	Railroad Bed Locations LL1-240 LL1340 LL1so-240-1340-SO 10/03/2000 2 - 2 Grab	Railroad Bed Locations LL1-241 LL1293 LL1so-241-1293-SO 10/03/2000 2 - 2 Field Duplicate	Railroad Bed Locations LL1-241 LL1339 LL1so-241-1339-SO 10/03/2000 2 - 2 Grab	Railroad Bed Locations LL1-242 LL1294 LL1so-242-1294-SO 10/03/2000 2 - 2 Field Duplicate
1,3,5-Trinitrobenzene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
1,3-Dinitrobenzene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2,4,6-Trinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2,4-Dinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2,6-Dinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2-Amino-4,6-dinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
3-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.17 J	0.25 U
4-Amino-2,6-dinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
4-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
HMX	mg/kg	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Nitrobenzene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Nitrocellulose	mg/kg	2 U	2 U	2 U	2 U	2 U
Nitroglycerin	mg/kg	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Nitroguanidine	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
RDX	mg/kg	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetryl	mg/kg	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U

Table 4-36. Results for Subsurface Soil Samples – Propellant and Explosive Constituents (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	Railroad Bed Locations LL1-242 LL1338 LL1so-242-1338-SO 10/03/2000 2 - 2 Grab	Railroad Bed Locations LL1-243 LL1292 LL1so-243-1292-SO 10/03/2000 2 - 2 Field Duplicate	Railroad Bed Locations LL1-243 LL1337 LL1so-243-1337-SO 10/03/2000 2 - 2 Grab
1,3,5-Trinitrobenzene	mg/kg	0.25 U	0.25 U	0.25 U
1,3-Dinitrobenzene	mg/kg	0.25 U	0.25 U	0.25 U
2,4,6-Trinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U
2,4-Dinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U
2,6-Dinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U
2-Amino-4,6-dinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U
2-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U
3-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U
4-Amino-2,6-dinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U
4-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U
HMX	mg/kg	0.5 U	0.5 U	0.5 U
Nitrobenzene	mg/kg	0.25 U	0.25 U	0.25 U
Nitrocellulose	mg/kg	2 U	2 U	2 U
Nitroglycerin	mg/kg	2.5 U	2.5 U	2.5 U
Nitroguanidine	mg/kg	0.25 U	0.25 U	0.25 U
RDX	mg/kg	0.5 U	0.5 U	0.5 U
Tetryl	mg/kg	0.65 U	0.65 U	0.65 U

"=" = detected.
J = estimated.
U = not detected.
UJ = not detected, detection limit estimated.
R = rejected.
Blank fields indicate no analysis for a particular constituent was conducted.

Table 4-37. Results for Subsurface Soil Samples – Inorganic Constituents

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-4/4A and CA-6/6A LL1-001 LL10801 LL1so-001-0801-SO 09/19/2000 1 - 2 Grab	CB-4/4A and CA-6/6A LL1-002 LL10804 LL1so-002-0804-SO 09/19/2000 1 - 2 Grab	CB-4/4A and CA-6/6A LL1-004 LL10809 LL1so-004-0809-SO 09/19/2000 1 - 3 Grab	CB-4/4A and CA-6/6A LL1-006 LL10814 LL1so-006-0814-SO 09/19/2000 1 - 2 Grab	CB-4/4A and CA-6/6A LL1-007 LL10816 LL1so-007-0816-SO 09/19/2000 1 - 2 Grab
Cyanide	mg/kg	1.2 = *		0.59 U	0.58 U	
Chromium, hexavalent	mg/kg	1.1 UJ	1.2 UJ	1.2 UJ	13.6 J	1.2 UJ
Aluminum	mg/kg	11,500 =	4,670 =	10,000 =	14,400 =	4,880 =
Antimony	mg/kg	1.1 UJ	1.2 UJ	1.2 UJ	1.2 UJ	1.2 UJ
Arsenic	mg/kg	9.2 =	8.3 =	10.5 =	6.9 =	8.4 =
Barium	mg/kg	168 = *	31 =	63.9 =	252 = *	54.9 =
Beryllium	mg/kg	1.3 = *	0.18 U	0.4 J	1.5 = *	0.14 U
Cadmium	mg/kg	9.9 = *	0.6 = *	0.59 U	9.6 = *	1.4 = *
Calcium	mg/kg	45,700 J *	2,070 J	1,170 J	53,800 J *	13,800 J
Chromium	mg/kg	67.4 = *	7.7 =	13.1 =	16.3 =	12.9 =
Cobalt	mg/kg	6.4 =	4.3 J	8.4 =	3.9 J	6 =
Copper	mg/kg	119 = *	17.8 =	13.1 =	38.6 = *	416 = *
Iron	mg/kg	42,300 = *	12,400 =	22,900 =	13,200 =	12,700 =
Lead	mg/kg	254 J *	111 J *	63.1 J *	160 J *	109 J *
Magnesium	mg/kg	6,610 =	1,140 =	1,680 =	8,790 =	2,180 =
Manganese	mg/kg	1,290 =	266 =	432 =	1,190 =	360 =
Mercury	mg/kg	0.78 = *	0.039 J	0.042 J	0.29 = *	0.044 J
Nickel	mg/kg	49.8 J	9.8 J	14.1 =	9.1 J	14.1 J
Potassium	mg/kg	862 =	660 =	830 J	1,220 =	475 =
Selenium	mg/kg	0.56 U	0.53 J	0.59 U	0.62 =	0.58 U
Silver	mg/kg	1.1 U	1.2 U	1.2 U	1.2 U	1.2 U
Sodium	mg/kg	236 J *	588 U	60.7 U	370 J *	79.2 J
Thallium	mg/kg	0.29 J	0.35 J	0.58 J	0.38 J	0.25 J
Vanadium	mg/kg	11.8 =	9.2 =	21.2 =	9.6 =	8.1 =
Zinc	mg/kg	395 J *	157 J *	60.5 J	227 J *	310 J *

Table 4-37. Results for Subsurface Soil Samples – Inorganic Constituents (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-4/4A and CA-6/6A LL1-008 LL10818 LL1so-008-0818-SO 09/19/2000 1 - 1 Grab	CB-4/4A and CA-6/6A LL1-008 LL1113 LL1so-008-1113-SO 09/19/2000 1 - 1 Field Duplicate	CB-4/4A and CA-6/6A LL1-011 LL10838 LL1so-011-0838-SO 09/19/2000 1 - 2 Grab	CB-4/4A and CA-6/6A LL1-011 LL1115 LL1so-011-1115-SO 09/19/2000 1 - 2 Field Duplicate	CB-4/4A and CA-6/6A LL1-014 LL10840 LL1so-014-0840-SO 09/19/2000 1 - 2 Grab
Cyanide	mg/kg			0.63 U	0.62 U	
Chromium, hexavalent	mg/kg	1.2 UJ	4.5 UJ	1.3 UJ	1.2 UJ	1.1 UJ
Aluminum	mg/kg	15,200 =	17,400 =	3,320 =	2,630 =	2,050 =
Antimony	mg/kg	1.2 UJ	1.2 UJ	1.3 UJ	1.2 UJ	1.1 UJ
Arsenic	mg/kg	9.7 =	7.1 =	11.4 =	10 =	2.9 =
Barium	mg/kg	78.5 =	90.9 =	42.9 =	43.9 =	16.4 J
Beryllium	mg/kg	0.61 =	0.6 =	0.069 U	0.077 U	0.068 U
Cadmium	mg/kg	0.15 J *	0.11 J *	1.9 = *	1.3 = *	0.57 U
Calcium	mg/kg	1,840 J	761 J	4,840 J	1,650 J	419 J
Chromium	mg/kg	17.8 =	19.3 =	9.7 =	10.4 =	3.1 =
Cobalt	mg/kg	7.5 =	6.9 =	3.6 J	3.1 J	1.8 J
Copper	mg/kg	10.4 =	10.8 =	24.1 =	21 =	3 =
Iron	mg/kg	24,000 =	21,800 =	12,200 =	10,400 =	4,090 =
Lead	mg/kg	14.3 J	11.8 J	163 J *	220 J *	11.9 =
Magnesium	mg/kg	2,310 =	2,540 =	1,080 =	804 =	295 J
Manganese	mg/kg	593 =	432 =	208 =	164 =	121 =
Mercury	mg/kg	0.042 J	0.041 J	0.032 J	0.034 J	0.11 U
Nickel	mg/kg	16.4 J	17.5 J	10 =	8.7 =	3.1 J
Potassium	mg/kg	1,110 =	1,470 =	640 J	510 J	199 J
Selenium	mg/kg	0.6 U	0.6 U	0.63 U	0.62 U	0.57 U
Silver	mg/kg	1.2 U	1.2 U	1.3 U	1.2 U	1.1 U
Sodium	mg/kg	598 U	595 U	113 U	99.9 U	73.8 U
Thallium	mg/kg	0.48 J	0.58 J	0.3 J	0.47 J	0.33 J
Vanadium	mg/kg	23.5 =	24.5 =	7.5 =	5.5 J	4.1 J
Zinc	mg/kg	59.6 J	63.4 J	320 J *	262 J *	15.2 U

Table 4-37. Results for Subsurface Soil Samples – Inorganic Constituents (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-4/4A and CA-6/6A LL1-015 LL10835 LL1so-015-0835-SO 09/19/2000 1 - 2 Grab	CB-4/4A and CA-6/6A LL1-016 LL10858 LL1so-016-0858-SO 09/19/2000 1 - 2 Grab	CB-4/4A and CA-6/6A LL1-023 LL10789 LL1so-023-0789-SO 09/19/2000 1 - 1 Grab	CB-4/4A and CA-6/6A LL1-145 LL1229 LL1so-145-1229-SO 09/28/2000 1 - 2 Grab	CB-4/4A and CA-6/6A LL1-156 LL1213 LL1so-156-1213-SO 09/19/2000 1 - 2 Grab
Cyanide	mg/kg	0.56 U	0.6 U	0.56 U	0.61 U	0.63 = *
Chromium, hexavalent	mg/kg	1.1 UJ	1.2 UJ	1.1 UJ		1.3 UJ
Aluminum	mg/kg	3,580 =	14,500 =	10,100 =	7,290 J	11,800 =
Antimony	mg/kg	1.1 UJ	1.2 UJ	1.1 UJ	1.2 UJ	1.3 UJ
Arsenic	mg/kg	10.9 =	13.5 =	11.7 =	9.6 J	11 =
Barium	mg/kg	27.4 =	64.8 =	57.9 =	42.1 =	111 =
Beryllium	mg/kg	0.1 U	0.3 J	0.35 J	0.25 UJ	0.73 =
Cadmium	mg/kg	0.57 = *	0.6 U	0.56 U	0.61 UJ	0.23 J *
Calcium	mg/kg	1,580 J	391 J	1,420 J	1,210 J	17,300 J
Chromium	mg/kg	6.3 =	16.3 =	12.8 =	10.9 J	14.7 =
Cobalt	mg/kg	3.7 J	7.3 =	8.1 =	5 J	7.3 =
Copper	mg/kg	14.9 =	16.7 =	17.4 =	16.1 J	24.3 =
Iron	mg/kg	12,000 =	24,800 =	20,700 =	16,200 =	19,100 =
Lead	mg/kg	52 = *	13 =	18.1 J	43.3 J *	83.4 J *
Magnesium	mg/kg	804 =	2,170 =	1,830 =	1,260 =	4,350 =
Manganese	mg/kg	217 =	202 =	627 =	262 =	1,150 =
Mercury	mg/kg	0.036 J	0.029 J	0.015 J	0.044 J	0.023 J
Nickel	mg/kg	9.3 J	15.8 J	14.7 =	11.3 J	16.2 =
Potassium	mg/kg	531 J	995 =	812 J	608 J	893 J
Selenium	mg/kg	0.56 =	0.89 =	0.56 U	0.61 UJ	0.63 U
Silver	mg/kg	1.1 U	1.2 U	1.1 U	1.2 U	1.3 U
Sodium	mg/kg	78.5 U	596 U	564 U	612 U	121 U
Thallium	mg/kg	0.51 J	0.76 J	0.47 J	0.28 J	0.41 J
Vanadium	mg/kg	7 =	26.2 =	20.2 =	14.7 =	15.8 =
Zinc	mg/kg	81.8 =	52.5 =	57.6 J	46.4 J	116 J *

Table 4-37. Results for Subsurface Soil Samples – Inorganic Constituents (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-4/4A and CA-6/6A LL1-159 LL1214 LL1so-159-1214-SO 09/19/2000 1 - 2 Grab	CB-4/4A and CA-6/6A LL1-164 LL1215 LL1so-164-1215-SO 09/19/2000 1 - 2 Grab	CB-4/4A and CA-6/6A LL1-264 LL1232 LL1so-264-1232-SO 09/30/2000 1 - 2 Grab	CB-4/4A and CA-6/6A LL1-265 LL1233 LL1so-265-1233-SO 09/30/2000 1 - 3 Grab	CB-4/4A and CA-6/6A LL1-265 LL1279 LL1so-265-1279-SO 09/30/2000 1 - 3 Field Duplicate
Cyanide	mg/kg	0.53 U	0.52 U	0.65 U	0.63 U	0.65 U
Chromium, hexavalent	mg/kg	1.1 UJ	1 UJ			
Aluminum	mg/kg	2,940 =	492 =	14,400 =	16,600 =	17,900 =
Antimony	mg/kg	1.1 UJ	1 UJ	1.3 UJ	1.3 UJ	1.3 UJ
Arsenic	mg/kg	3.2 =	2.4 =	15.8 =	12.1 =	17.4 =
Barium	mg/kg	21.1 =	7.1 J	56.6 =	98.9 =	86.3 =
Beryllium	mg/kg	0.1 U	0.52 U	0.52 J	0.38 J	0.49 J
Cadmium	mg/kg	0.53 U	0.52 U	0.65 U	0.63 U	0.65 U
Calcium	mg/kg	483 J	284 J	383 J	361 J	428 J
Chromium	mg/kg	4.1 =	1.5 =	18.9 =	19.9 =	21.5 =
Cobalt	mg/kg	2.3 J	0.55 J	7.6 =	4.4 J	5.3 J
Copper	mg/kg	3.8 =	2.5 J	19.7 =	19.9 =	23.1 =
Iron	mg/kg	5,950 =	2,450 =	28,600 =	23,100 =	29,900 =
Lead	mg/kg	8.4 J	12.9 J	12.8 =	10.6 =	11.9 =
Magnesium	mg/kg	430 J	110 J	2,610 =	2,370 =	2,680 =
Manganese	mg/kg	160 =	50.9 =	174 =	93.1 =	123 =
Mercury	mg/kg	0.11 U	0.1 U	0.049 J *	0.049 J *	0.05 J *
Nickel	mg/kg	4.2 =	1.4 J	18.8 =	14.4 =	16.8 =
Potassium	mg/kg	295 J	105 U	1,550 =	1,480 =	1,570 =
Selenium	mg/kg	0.53 U	0.52 U	1.7 = *	1.6 = *	1.9 = *
Silver	mg/kg	1.1 U	1 U	1.3 U	1.3 U	1.3 U
Sodium	mg/kg	60.6 U	74.6 U	654 U	80.6 U	647 U
Thallium	mg/kg	0.26 J	0.52 U	0.69 =	0.77 =	0.71 J
Vanadium	mg/kg	5.9 =	1.2 J	25.8 =	30.3 =	32.6 =
Zinc	mg/kg	19.8 J	18.6 J	83.5 J	68 J	79.4 J

Table 4-37. Results for Subsurface Soil Samples – Inorganic Constituents (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-4/4A and CA-6/6A LL1-266 LL1247 LL1so-266-1247-SO 09/30/2000 1 - 2 Grab	CB-4/4A and CA-6/6A LL1-268 LL1246 LL1so-268-1246-SO 09/30/2000 1 - 3 Grab	CB-4/4A and CA-6/6A LL1-325 LL1133 LL1so-325-1133-SO 09/29/2000 1 - 3 Field Duplicate	CB-4/4A and CA-6/6A LL1-325 LL1245 LL1so-325-1245-SO 09/29/2000 1 - 3 Grab	CB-4/4A and CA-6/6A LL1-335 LL1208 LL1so-335-1208-SO 09/19/2000 1 - 3 Grab
Cyanide	mg/kg			0.6 U	0.6 U	
Chromium, hexavalent	mg/kg					1.2 UJ
Aluminum	mg/kg	13,900 =	13,400 =	12,400 =	12,100 =	10,700 =
Antimony	mg/kg	1.3 UJ	0.66 J	1.2 UJ	1.2 UJ	1.2 UJ
Arsenic	mg/kg	14.5 =	12.7 =	14.3 =	16.6 =	12 =
Barium	mg/kg	106 =	78.6 =	66.6 J	68.6 J	67.2 =
Beryllium	mg/kg	0.64 J	0.47 J	0.47 J	0.54 J	0.35 J
Cadmium	mg/kg	0.66 U	0.67 U	0.086 J *	0.6 UJ	0.58 U
Calcium	mg/kg	8,310 J	3,560 J	2,130 J	2,050 J	3,650 J
Chromium	mg/kg	17.1 =	17.3 =	17.2 J	17.9 J	13 =
Cobalt	mg/kg	18.8 =	9.6 =	10.8 =	12.5 =	8.1 =
Copper	mg/kg	36.3 = *	47.8 = *	21.3 J	23.8 J	21.8 =
Iron	mg/kg	27,400 =	24,500 =	27,200 =	30,700 =	22,200 =
Lead	mg/kg	24.3 = *	24.9 = *	19.3 = *	17 =	52.8 J *
Magnesium	mg/kg	1,950 =	2,020 =	3,170 =	3,480 =	2,480 =
Manganese	mg/kg	1,210 =	677 =	379 =	398 =	391 =
Mercury	mg/kg	0.087 J *	0.086 J *	0.035 U	0.032 U	0.015 J
Nickel	mg/kg	14.4 =	16 =	24.3 J	29 J	19.1 =
Potassium	mg/kg	865 =	1,090 =	1,670 =	1,690 =	1,400 J
Selenium	mg/kg	1.7 = *	1.5 =	0.6 U	0.6 U	0.58 U
Silver	mg/kg	1.3 U	1.3 U	1.2 U	1.2 U	1.2 U
Sodium	mg/kg	655 U	673 U	595 U	597 U	579 U
Thallium	mg/kg	0.75 =	0.77 J	0.54 J	0.55 J	0.57 J
Vanadium	mg/kg	33.6 =	27.8 =	21.2 =	20.3 =	17.7 =
Zinc	mg/kg	61.7 J	79.8 J	71.9 =	88.9 =	109 J *

Table 4-37. Results for Subsurface Soil Samples – Inorganic Constituents (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	CB-13 and CB-10 LL1-068 LL10749 LL1so-068-0749-SO 09/29/2000 1 - 3 Grab	CB-13 and CB-10 LL1-109 LL1235 LL1so-109-1235-SO 09/28/2000 1 - 2 Grab	CB-13 and CB-10 LL1-110 LL1234 LL1so-110-1234-SO 09/28/2000 1 - 2 Grab	CB-13 and CB-10 LL1-118 LL1345 LL1so-118-1345-SO 10/03/2000 2 - 2 Grab	CB-13 and CB-10 LL1-119 LL1344 LL1so-119-1344-SO 10/03/2000 2 - 2 Grab
Cyanide	mg/kg	0.59 U				
Chromium, hexavalent	mg/kg					
Aluminum	mg/kg	16,000 =	5,770 =	13,100 =	5,920 =	5,760 =
Antimony	mg/kg	1.2 UJ	98.1 J *	1.2 UJ	1.1 UJ	1.1 UJ
Arsenic	mg/kg	11.5 =	13.6 J	11.3 =	9.1 =	9.5 =
Barium	mg/kg	68.7 J	153 J *	86.8 =	48.9 =	33.3 =
Beryllium	mg/kg	0.49 J	0.46 J	0.63 =	0.27 J	0.27 U
Cadmium	mg/kg	0.39 J *	26.2 J *	0.15 J *	0.091 J *	0.078 J *
Calcium	mg/kg	6,770 J	6,140 =	12,200 =	14,900 J	12,900 =
Chromium	mg/kg	26.5 J	85.8 J *	16.8 =	7.6 =	8.2 =
Cobalt	mg/kg	8.4 =	7.2 J	9.9 =	5 J	5.2 J
Copper	mg/kg	16.9 J	175 J *	17.1 =	13.8 =	18.7 =
Iron	mg/kg	25,200 =	24,000 =	22,400 =	14,900 =	16,000 =
Lead	mg/kg	13.7 =	680 J *	17.3 J	10.9 =	11.6 =
Magnesium	mg/kg	3,520 =	3,340 J	3,850 =	3,240 =	2,800 =
Manganese	mg/kg	881 =	309 =	652 =	592 =	464 =
Mercury	mg/kg	0.045 U	0.14 J *	0.028 J	0.013 J	0.0093 J
Nickel	mg/kg	17.5 J	26.4 J	20.6 J	11.3 =	11.9 =
Potassium	mg/kg	2,820 =	1,080 J	1,590 J	761 =	924 =
Selenium	mg/kg	0.59 U	1.8 J *	0.42 J	0.53 U	0.53 U
Silver	mg/kg	1.2 U	0.52 J *	1.2 U	1.1 U	1.1 U
Sodium	mg/kg	81 J	473 UJ	97 U	116 U	72.2 J
Thallium	mg/kg	0.5 J	0.73 J	0.64 =	0.19 J	0.37 J
Vanadium	mg/kg	31.6 =	11.3 J	19.7 =	8.2 =	9.8 =
Zinc	mg/kg	67.4 =	4,160 J *	72.9 =	64.5 =	55.3 =

Table 4-37. Results for Subsurface Soil Samples – Inorganic Constituents (continued)

Location		CB-14, CB-17, and CB-15	CB-14, CB-17, and CB-15	Perimeter Area	Railroad Bed Locations	Railroad Bed Locations
Station		LL1-087	LL1-099	LL1-211	LL1-237	LL1-238
Sample ID		LL1216	LL1230	LL1231	LL1343	LL1342
Customer ID		LL1so-087-1216-SO	LL1so-099-1230-SO	LL1so-211-1231-SO	LL1so-237-1343-SO	LL1so-238-1342-SO
Date		09/28/2000	09/29/2000	09/29/2000	10/03/2000	10/03/2000
Depth (ft)		1 - 3	1 - 3	1 - 3	2 - 2	2 - 2
Field Type		Grab	Grab	Grab	Grab	Grab
Analyte	Units					
Cyanide	mg/kg	0.56 U	0.59 U	0.6 U		
Chromium, hexavalent	mg/kg					
Aluminum	mg/kg	1,610 =	15,100 =	18,400 =	6,470 =	3,720 =
Antimony	mg/kg	1.1 UJ	1.2 UJ	1.2 UJ	1 UJ	1.1 UJ
Arsenic	mg/kg	5.9 =	14.9 =	13 =	10.3 =	4.5 =
Barium	mg/kg	36 =	76.5 J	73.9 J	30.7 =	34.6 =
Beryllium	mg/kg	0.12 U	0.48 J	0.55 J	0.24 U	0.24 J
Cadmium	mg/kg	2.8 = *	0.59 UJ	0.6 UJ	0.073 J *	0.54 U
Calcium	mg/kg	1,120 =	543 J	496 J	2,970 =	6,060 J
Chromium	mg/kg	8.3 =	19 J	23.1 J	9.2 =	5.4 =
Cobalt	mg/kg	3.2 J	10.1 =	7.2 =	5.3 =	4.4 J
Copper	mg/kg	16.8 =	17.7 J	18.5 J	17.6 =	5.1 =
Iron	mg/kg	11,100 =	28,200 =	29,300 =	17,400 =	9,810 =
Lead	mg/kg	558 J *	15.2 =	13.1 =	13.4 =	4 =
Magnesium	mg/kg	423 J	2,710 =	3,130 =	2,110 =	1,310 =
Manganese	mg/kg	463 =	471 =	169 =	298 =	497 =
Mercury	mg/kg	0.03 J	0.043 U	0.045 U	0.01 J	0.11 U
Nickel	mg/kg	8.2 J	19.6 J	21.2 J	12.8 =	7.6 =
Potassium	mg/kg	292 J	1,370 =	2,300 =	1,020 =	471 J
Selenium	mg/kg	0.44 J	0.59 U	0.6 U	0.52 U	0.54 U
Silver	mg/kg	1.1 U	1.2 U	1.2 U	1 U	1.1 U
Sodium	mg/kg	59.9 U	593 U	597 U	524 U	65.9 U
Thallium	mg/kg	0.38 J	0.68 =	0.64 =	0.46 J	0.54 U
Vanadium	mg/kg	5.6 =	28.1 =	30.9 =	11.7 =	6.5 =
Zinc	mg/kg	155 = *	58.3 =	54.6 =	63.6 =	16.2 =

Table 4-37. Results for Subsurface Soil Samples – Inorganic Constituents (continued)

Location		Railroad Bed Locations	Railroad Bed Locations	Railroad Bed Locations	Railroad Bed Locations	Railroad Bed Locations
Station		LL1-239	LL1-240	LL1-241	LL1-241	LL1-242
Sample ID		LL1341	LL1340	LL1293	LL1339	LL1294
Customer ID		LL1so-239-1341-SO	LL1so-240-1340-SO	LL1so-241-1293-SO	LL1so-241-1339-SO	LL1so-242-1294-SO
Date		10/03/2000	10/03/2000	10/03/2000	10/03/2000	10/03/2000
Depth (ft)		2 - 2	2 - 2	2 - 2	2 - 2	2 - 2
Field Type		Grab	Grab	Field Duplicate	Grab	Field Duplicate
Analyte	Units					
Cyanide	mg/kg					
Chromium, hexavalent	mg/kg					
Aluminum	mg/kg	5,720 =	3,100 =	3,320 =	4,510 =	3,370 =
Antimony	mg/kg	1.1 UJ	1.1 UJ	1.1 UJ	1.1 UJ	1.1 UJ
Arsenic	mg/kg	4.8 =	4.7 =	4.5 =	3.6 =	4.9 =
Barium	mg/kg	58.5 =	26.2 =	38.3 =	54 =	32.7 =
Beryllium	mg/kg	0.41 J	0.25 U	0.29 U	0.38 J	0.3 U
Cadmium	mg/kg	0.07 J *	0.54 U	0.051 J *	0.54 U	0.055 J *
Calcium	mg/kg	12,200 J	2,980 =	5,680 =	12,400 J	4,940 =
Chromium	mg/kg	7.7 =	6.8 =	5.6 =	5.2 =	6.7 =
Cobalt	mg/kg	3.8 J	3.5 J	3.3 J	2.6 J	3.4 J
Copper	mg/kg	7.4 =	4.6 =	6.1 =	4.6 =	7.1 =
Iron	mg/kg	11,200 =	19,600 =	10,100 =	8,320 =	13,000 =
Lead	mg/kg	10.9 =	12.8 =	10.3 =	7.2 =	9.1 =
Magnesium	mg/kg	1,890 =	739 =	1,090 =	1,860 =	992 =
Manganese	mg/kg	660 =	765 =	553 =	758 =	569 =
Mercury	mg/kg	0.11 U	0.11 U	0.11 U	0.011 J	0.11 U
Nickel	mg/kg	7.5 =	7.7 =	6.1 =	5 =	7.3 =
Potassium	mg/kg	745 =	557 =	503 J	548 =	657 =
Selenium	mg/kg	0.54 U	0.54 U	0.54 U	0.54 U	0.35 J
Silver	mg/kg	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Sodium	mg/kg	97.7 U	542 U	53.9 J	116 U	546 U
Thallium	mg/kg	0.23 J	0.36 J	0.33 J	0.27 J	0.28 J
Vanadium	mg/kg	8.3 =	7.4 =	6.3 =	6 =	7.3 =
Zinc	mg/kg	38 =	67.2 =	50.3 =	56.5 =	31.9 =

Table 4-37. Results for Subsurface Soil Samples – Inorganic Constituents (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	Railroad Bed Locations LL1-242 LL1338 LL1so-242-1338-SO 10/03/2000 2 - 2 Grab	Railroad Bed Locations LL1-243 LL1292 LL1so-243-1292-SO 10/03/2000 2 - 2 Field Duplicate	Railroad Bed Locations LL1-243 LL1337 LL1so-243-1337-SO 10/03/2000 2 - 2 Grab	Railroad Bed Locations LL1-244 LL1336 LL1so-244-1336-SO 10/03/2000 2 - 2 Grab
Cyanide	mg/kg				
Chromium, hexavalent	mg/kg				
Aluminum	mg/kg	7,540 =	3,590 =	3,560 =	2,810 =
Antimony	mg/kg	1.1 UJ	1.1 UJ	1.1 UJ	1.1 UJ
Arsenic	mg/kg	4.7 =	6.6 =	5.1 =	4.8 =
Barium	mg/kg	51.1 =	37.2 =	39.9 =	31.6 =
Beryllium	mg/kg	0.77 =	0.31 U	0.29 J	0.24 J
Cadmium	mg/kg	0.072 J *	0.091 J *	0.079 J *	0.1 J *
Calcium	mg/kg	23,100 J	4,880 =	5,370 J	3,220 J
Chromium	mg/kg	6.5 =	7 =	6 =	5.9 =
Cobalt	mg/kg	3.1 J	4.4 J	3.5 J	3.6 J
Copper	mg/kg	7.3 =	9.3 =	8.1 =	5.5 =
Iron	mg/kg	11,000 =	15,800 =	15,600 =	16,600 =
Lead	mg/kg	11.2 =	19 =	11 =	7.7 =
Magnesium	mg/kg	3,710 =	989 =	1,090 =	747 =
Manganese	mg/kg	767 =	583 =	619 =	781 =
Mercury	mg/kg	0.11 U	0.017 J	0.0095 J	0.11 U
Nickel	mg/kg	6.9 =	9.1 =	7.8 =	8.3 =
Potassium	mg/kg	635 =	603 =	544 J	544 =
Selenium	mg/kg	0.54 U	0.55 U	0.56 U	0.35 J
Silver	mg/kg	1.1 U	1.1 U	1.1 U	1.1 U
Sodium	mg/kg	147 U	555 U	67.4 U	54.7 U
Thallium	mg/kg	0.54 U	0.41 J	0.13 J	0.13 J
Vanadium	mg/kg	6.4 =	7.4 =	6.8 =	7.2 =
Zinc	mg/kg	33.4 =	52.3 =	45.3 =	99.6 = *

* = exceeds site-wide background criteria.
"=" = detected.
J = estimated.
U = not detected.
UJ = not detected, detection limit estimated.
R = rejected.
Blank fields indicate no analysis for a particular constituent was conducted.

Table 4-38. Results for Sediment Samples – Propellant and Explosive Constituents

Location		Outlets A and B	Outlets A and B	Outlets A and B	Outlets A and B	Outlet C and Charlie's Pond
Station		LL1-253	LL1-304	LL1-394	LL1-398	LL1-048
Sample ID		LL10980	LL1034	LL1276	LL1260	LL1050
Customer ID		LL1sd-253-0980-SD	LL1sd-304-1034-SD	LL1sd-394-1276-SD	LL1sd-398-1260-SD	LL1sd-048-1050-SD
Date		09/20/2000	09/18/2000	09/28/2000	09/28/2000	09/17/2000
Depth (ft)		0 - 1		0 - 1	0 - 1	0 - 1
Field Type		Grab	Grab	Grab	Grab	Grab
Analyte	Units					
1,3,5-Trinitrobenzene	mg/kg	0.18 J	0.25 U	0.25 U	0.25 U	0.25 U
1,3-Dinitrobenzene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2,4,6-Trinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.55 =	0.54 =
2,4-Dinitrotoluene	mg/kg	2 =	0.25 U	0.39 =	0.25 U	0.25 U
2,6-Dinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2-Amino-4,6-dinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.71 =	0.19 J
2-Nitrotoluene	mg/kg	0.25 U	0.19 J	0.25 U	0.25 U	0.25 U
3-Nitrotoluene	mg/kg	0.76 U	0.25 U	0.25 U	0.25 U	0.25 U
4-Amino-2,6-dinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.81 =	0.37 =
4-Nitrotoluene	mg/kg	1 U	0.25 U	0.25 U	0.25 U	0.25 U
HMX	mg/kg	0.57 =	0.5 U	0.5 U	0.5 U	0.5 U
Nitrobenzene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Nitrocellulose	mg/kg	66.9 =	4.2 =	333 =	2 U	2 U
Nitroglycerin	mg/kg	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Nitroguanidine	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 UJ
RDX	mg/kg	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetryl	mg/kg	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U

Table 4-38. Results for Sediment Samples – Propellant and Explosive Constituents (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	Outlet C and Charlie's Pond LL1-048 LL1135 LL1sd-048-1135-SD 09/17/2000 0 – 1 Field Duplicate	Outlet C and Charlie's Pond LL1-077 LL1015 LL1sd-077-1015-SD 09/15/2000 0 - 1 Grab	Outlet C and Charlie's Pond LL1-286 LL1016 LL1sd-286-1016-SD 09/16/2000 0 - 1 Grab	Outlet C and Charlie's Pond LL1-289 LL1019 LL1sd-289-1019-SD 09/16/2000 0 - 1 Grab	Outlet C and Charlie's Pond LL1-395 LL1269 LL1sd-395-1269-SD 09/26/2000 0 - 1 Grab
1,3,5-Trinitrobenzene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
1,3-Dinitrobenzene	mg/kg	0.03 J	0.25 U	0.25 U	0.25 U	0.25 U
2,4,6-Trinitrotoluene	mg/kg	0.28 =	0.25 U	0.25 U	0.25 U	0.37 =
2,4-Dinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2,6-Dinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.14 J
2-Amino-4,6-dinitrotoluene	mg/kg	0.16 J	0.25 U	0.25 U	0.25 U	0.44 =
2-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
3-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
4-Amino-2,6-dinitrotoluene	mg/kg	0.27 =	0.25 U	0.25 U	0.25 U	0.45 =
4-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
HMX	mg/kg	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Nitrobenzene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Nitrocellulose	mg/kg	2 U	2 UJ	2 UJ		3.7 U
Nitroglycerin	mg/kg	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Nitroguanidine	mg/kg	0.25 U	0.25 UJ	0.25 UJ		0.25 U
RDX	mg/kg	0.21 J	0.5 U	0.5 U	0.5 U	0.5 U
Tetryl	mg/kg	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U

Table 4-38. Results for Sediment Samples – Propellant and Explosive Constituents (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	Outlets D, E, and F and Criggy's Pond LL1-050 LL1052 LL1sd-050-1052-SD 09/16/2000 0 - 1 Grab	Outlets D, E, and F and Criggy's Pond LL1-050 LL1134 LL1sd-050-1134-SD 09/16/2000 0 - 1 Field Duplicate	Outlets D, E, and F and Criggy's Pond LL1-397 LL1136 LL1sd-397-1136-SD 09/27/2000 0 - 1 Field Duplicate	Outlets D, E, and F and Criggy's Pond LL1-397 LL1274 LL1sd-397-1274-SD 09/27/2000 0 - 1 Grab	Off-AOC LL1-322 LL1061 LL1sd-322-1061-SD 09/13/2000 0 - 1 Grab
1,3,5-Trinitrobenzene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
1,3-Dinitrobenzene	mg/kg	0.25 U	0.25 U	0.071 J	0.25 U	0.25 U
2,4,6-Trinitrotoluene	mg/kg	0.25 U	0.67 =	0.25 U	0.25 U	0.25 U
2,4-Dinitrotoluene	mg/kg	0.07 J	0.25 U	0.25 U	0.25 U	0.048 J
2,6-Dinitrotoluene	mg/kg	0.25 U	0.12 J	0.25 U	0.25 U	0.25 U
2-Amino-4,6-dinitrotoluene	mg/kg	0.25 U	0.29 =	0.25 U	0.25 U	0.25 U
2-Nitrotoluene	mg/kg	0.33 U	0.25 U	0.25 U	0.28 U	0.25 U
3-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
4-Amino-2,6-dinitrotoluene	mg/kg	0.25 U	0.48 =	0.25 U	0.25 U	0.1 J
4-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
HMX	mg/kg	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Nitrobenzene	mg/kg	0.14 J	0.25 U	0.085 J	0.25 U	0.25 U
Nitrocellulose	mg/kg	2 U	2 UJ	2 U	2 U	5.7 J
Nitroglycerin	mg/kg	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Nitroguanidine	mg/kg	0.25 U	0.25 UJ	0.25 U	0.25 U	0.25 UJ
RDX	mg/kg	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetryl	mg/kg	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U

Table 4-38. Results for Sediment Samples – Propellant and Explosive Constituents (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	Off-AOC LL1-323 LL1103 LL1sd-323-1103-SD 11/06/2000 0 - 1 Grab	Off-AOC LL1-323 LL1137 LL1sd-323-1137-SD 11/06/2000 0 - 1 Field Duplicate	Off-AOC LL1-393 LL1273 LL1sd-393-1273-SD 09/27/2000 0 - 1 Grab	Sewer Lines LL1-295 LL1025 LL1sd-295-1025-SD 09/18/2000 Grab	Sewer Lines LL1-301 LL1031 LL1sd-301-1031-SD 09/25/2000 Grab
1,3,5-Trinitrobenzene	mg/kg	0.25 U	0.25 U	0.25 U	0.12 J	0.093 J
1,3-Dinitrobenzene	mg/kg	0.25 U	0.25 U	0.051 J	0.054 J	0.21 J
2,4,6-Trinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	2.8 =	0.25 U
2,4-Dinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.31 =	0.26 U
2,6-Dinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.44 U	0.25 U
2-Amino-4,6-dinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	1.5 =	0.25 U
2-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	1.2 U
3-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.59 U	0.25 U
4-Amino-2,6-dinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	1.7 =	0.25 U
4-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U	0.57 U
HMX	mg/kg	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Nitrobenzene	mg/kg	0.25 U	0.25 U	0.11 J	0.25 U	0.23 J
Nitrocellulose	mg/kg	2 U	2 U	2 U	4.7 =	3 UJ
Nitroglycerin	mg/kg	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Nitroguanidine	mg/kg	0.076 J	0.16 J	0.25 U	0.25 U	0.25 U
RDX	mg/kg	0.5 U	0.5 U	0.18 J	0.5 U	0.5 U
Tetryl	mg/kg	0.65 U	0.65 U	0.65 U	0.65 U	0.57 J

Table 4-38. Results for Sediment Samples – Propellant and Explosive Constituents (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	Sewer Lines LL1-306 LL1036 LL1sd-306-1036-SD 09/19/2000 Grab	Sewer Lines LL1-308 LL1038 LL1sd-308-1038-SD 09/19/2000 Grab	Sewer Lines LL1-310 LL1040 LL1sd-310-1040-SD 09/19/2000 Grab	Sewer Lines LL1-310 LL1139 LL1sd-310-1139-SD 09/19/2000 Field Duplicate
1,3,5-Trinitrobenzene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U
1,3-Dinitrobenzene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U
2,4,6-Trinitrotoluene	mg/kg	1.2 =	0.25 U	0.11 J	0.14 J
2,4-Dinitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U
2,6-Dinitrotoluene	mg/kg	0.13 J	0.25 U	0.25 U	0.25 U
2-Amino-4,6-dinitrotoluene	mg/kg	0.44 =	0.25 U	0.25 U	0.25 U
2-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U
3-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U
4-Amino-2,6-dinitrotoluene	mg/kg	0.75 =	0.25 U	0.25 U	0.25 U
4-Nitrotoluene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U
HMX	mg/kg	0.5 U	0.5 U	0.5 U	0.5 U
Nitrobenzene	mg/kg	0.25 U	0.25 U	0.25 U	0.25 U
Nitrocellulose	mg/kg	0.48 J	2.1 =	5.8 =	3.4 =
Nitroglycerin	mg/kg	2.5 U	2.5 U	2.5 U	2.5 U
Nitroguanidine	mg/kg	0.25 UJ	0.25 U	0.25 UJ	0.25 UJ
RDX	mg/kg	0.5 U	0.5 U	0.5 U	0.5 U
Tetryl	mg/kg	0.65 U	0.65 U	0.65 U	0.65 U

"=" = detected.
J = estimated.
U = not detected.
UJ = not detected, detection limit estimated.
R = rejected.
Blank fields indicate no analysis for a particular constituent was conducted.

Table 4-39. Results for Sediment Samples – Inorganic Constituents and Total Organic Carbon

Location		Outlets A and B	Outlets A and B	Outlets A and B	Outlets A and B	Outlets A and B
Station		LL1-047	LL1-070	LL1-252	LL1-253	LL1-300
Sample ID		LL1270	LL1054	LL10979	LL10980	LL1030
Customer ID		LL1sd-047-1270-SD	LL1sd-070-1054-SD	LL1sd-252-0979-SD	LL1sd-253-0980-SD	LL1sd-300-1030-SD
Date		09/26/2000	09/17/2000	09/17/2000	09/20/2000	09/25/2000
Depth (ft)		0 - 1	0 - 1	0 - 1	0 - 1	
Field Type		Grab	Grab	Grab	Grab	Grab
Analyte	Units					
Cyanide	mg/kg					
Chromium, hexavalent	mg/kg				25 UJ	5.4 J
Aluminum	mg/kg	7,170 =	8,570 =	15,100 = *	15,700 = *	3,850 =
Antimony	mg/kg	1.2 J *	0.82 J *	1.4 UJ	7.4 J *	3.6 J *
Arsenic	mg/kg	9.4 =	11.1 =	11.5 =	14.2 =	14 =
Barium	mg/kg	106 =	81.5 =	113 =	153 = *	35.5 =
Beryllium	mg/kg	0.54 U	0.66 J *	0.93 J *	1.7 U	0.45 J *
Cadmium	mg/kg	1.1 = *	1.7 = *	1.5 = *	15 = *	0.15 J *
Calcium	mg/kg	10,900 J *	3,360 J	2,390 J	11,400 J *	1,930 =
Chromium	mg/kg	12.9 =	15.3 =	17.3 =	154 = *	9.4 =
Cobalt	mg/kg	7.5 J	8.5 =	9.5 = *	14.3 J *	5.2 J
Copper	mg/kg	23.2 =	30.1 = *	15.8 =	434 = *	26.2 =
Iron	mg/kg	15,800 =	18,000 =	22,600 =	32,100 = *	21,600 =
Lead	mg/kg	50.1 J *	73.3 = *	1,140 = *	719 J *	47.3 = *
Magnesium	mg/kg	1,410 =	1,390 =	1,780 =	15,900 = *	949 =
Manganese	mg/kg	1,270 =	671 =	1,840 =	812 =	277 =
Mercury	mg/kg	0.11 J *	0.086 J *	0.09 J *	0.54 = *	0.08 J *
Nickel	mg/kg	20.7 = *	17.3 =	18.6 = *	104 = *	13.2 =
Potassium	mg/kg	1,020 =	743 =	1,270 =	1,750 J	294 J
Selenium	mg/kg	2.8 U	1.2 =	1.2 =	3.8 = *	1.7 U
Silver	mg/kg	1.9 U	1.4 U	1.4 U	3.3 U	1.5 U
Sodium	mg/kg	107 U	684 U	700 U	540 J *	739 UJ
Thallium	mg/kg	0.6 J	1.1 = *	0.77 J	0.97 J *	0.41 J
Vanadium	mg/kg	20 =	21.2 =	26.9 = *	33.9 = *	13.8 =
Zinc	mg/kg	250 J	213 =	278 =	2,610 J *	85.6 =
Total Organic Carbon	mg/kg	6,900 =	17,000 =	9,400 =	120,000 =	16,000 =

Table 4-39. Results for Sediment Samples – Inorganic Constituents and Total Organic Carbon (continued)

Location		Outlets A and B	Outlets A and B	Outlets A and B	Outlets A and B	Outlet C and Charlie's Ponds
Station		LL1-304	LL1-394	LL1-396	LL1-398	LL1-048
Sample ID		LL1034	LL1276	LL1049	LL1260	LL1050
Customer ID		LL1sd-304-1034-SD	LL1sd-394-1276-SD	LL1sd-396-1049-SD	LL1sd-398-1260-SD	LL1sd-048-1050-SD
Date		09/18/2000	09/28/2000	09/17/2000	09/28/2000	09/17/2000
Depth (ft)			0 - 1	0 - 1	0 - 1	0 - 1
Field Type		Grab	Grab	Grab	Grab	Grab
Analyte	Units					
Cyanide	mg/kg	0.84 U			0.94 U	0.65 U
Chromium, hexavalent	mg/kg	1.7 UJ				
Aluminum	mg/kg	13,000 =	13,800 =	7,970 =	10,600 =	7,320 J
Antimony	mg/kg	1.7 UJ	1.4 J *	1.2 UJ	1.3 J *	1.2 J *
Arsenic	mg/kg	11.9 =	13.3 =	28.7 = *	11.6 =	10.8 =
Barium	mg/kg	129 = *	81.6 =	74.3 =	132 = *	80.7 =
Beryllium	mg/kg	1.1 = *	0.47 U	1 J *	0.56 U	0.49 J *
Cadmium	mg/kg	1.4 = *	2.2 = *	0.61 U	1.9 = *	1.4 = *
Calcium	mg/kg	11,100 J *	3,110 J	1,390 J	9,500 = *	5,230 =
Chromium	mg/kg	17.6 =	40.5 = *	12.2 =	17.4 =	14.4 =
Cobalt	mg/kg	8.8 =	10.7 = *	17.5 = *	8.4 J	7.1 J
Copper	mg/kg	30.3 = *	40 = *	15.4 =	32.3 = *	20.3 =
Iron	mg/kg	21,100 =	22,000 =	46,300 = *	19,900 =	21,100 =
Lead	mg/kg	59.7 J *	188 = *	32.9 = *	60.2 = *	55.7 = *
Magnesium	mg/kg	2,970 = *	2,850 = *	1,090 =	1,670 =	1,400 =
Manganese	mg/kg	1,600 =	482 =	1,300 =	1,240 =	772 =
Mercury	mg/kg	0.12 J *	0.1 J *	0.033 J	0.33 = *	0.085 J *
Nickel	mg/kg	23.3 J *	25.6 = *	15.4 =	21.8 = *	16.6 =
Potassium	mg/kg	1,180 =	1,950 =	519 J	1,090 =	745 =
Selenium	mg/kg	1.9 = *	1.4 =	2 = *	2.2 = *	3.6 = *
Silver	mg/kg	1.7 U	2.1 U	1.2 U	1.9 U	1.3 U
Sodium	mg/kg	108 J	120 J *	610 U	109 J	651 U
Thallium	mg/kg	0.67 J	0.73 J	0.61 =	0.62 J	0.53 J
Vanadium	mg/kg	21.7 =	28 = *	28.8 = *	28.3 = *	20 =
Zinc	mg/kg	284 J	421 J	247 =	201 J	215 =
Total Organic Carbon	mg/kg	48,000 =	57,000 =	7,500 =	78,000 =	35,000 =

Table 4-39. Results for Sediment Samples – Inorganic Constituents and Total Organic Carbon (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	Outlet C and Charlie's Ponds LL1-048 LL1135 LL1sd-048-1135-SD 09/17/2000 0 - 1 Field Duplicate	Outlet C and Charlie's Ponds LL1-060 LL1055 LL1sd-060-1055-SD 09/15/2000 0 - 1 Grab	Outlet C and Charlie's Ponds LL1-061 LL1056 LL1sd-061-1056-SD 09/15/2000 0 - 1 Grab	Outlet C and Charlie's Ponds LL1-077 LL1015 LL1sd-077-1015-SD 09/15/2000 0 - 1 Grab	Outlet C and Charlie's Ponds LL1-286 LL1016 LL1sd-286-1016-SD 09/16/2000 0 - 1 Grab
Cyanide	mg/kg	0.57 U			0.72 U	
Chromium, hexavalent	mg/kg					
Aluminum	mg/kg	6,460 J	13,600 =		9,330 =	12,200 =
Antimony	mg/kg	0.82 J *	1.7 UJ		1.4 UJ	1.4 UJ
Arsenic	mg/kg	8.3 =	50.5 = *		12.2 =	10.8 =
Barium	mg/kg	74 =	91.5 =		57.9 =	85.5 =
Beryllium	mg/kg	0.38 J	0.59 J *		0.57 J *	0.94 = *
Cadmium	mg/kg	1.2 = *	0.3 J *		0.14 J *	0.58 J *
Calcium	mg/kg	4,060 =	2,150 =		1,500 =	8,450 = *
Chromium	mg/kg	11.9 =	21.3 = *		11.9 =	10.3 =
Cobalt	mg/kg	6.5 J	9.5 = *		10.3 = *	6.4 J
Copper	mg/kg	18.3 =	16.9 =		14.6 =	13.5 J
Iron	mg/kg	15,800 =	24,600 =		21,100 =	14,500 =
Lead	mg/kg	44.3 = *	24.9 =		18.3 =	24.8 =
Magnesium	mg/kg	1,240 =	2,330 =		1,600 =	1,790 =
Manganese	mg/kg	749 =	322 J		237 J	494 =
Mercury	mg/kg	0.07 J *	0.075 J *		0.031 J	0.067 J *
Nickel	mg/kg	15.4 =	22.7 = *		16.5 =	13.2 =
Potassium	mg/kg	681 =	1,500 =		758 =	778 =
Selenium	mg/kg	2.9 = *	1.7 =		0.99 =	1.2 =
Silver	mg/kg	1.1 U	1.7 U		1.4 U	1.4 U
Sodium	mg/kg	568 U	866 U		719 U	84.3 J
Thallium	mg/kg	0.45 J	0.87 J		0.76 J	0.59 J
Vanadium	mg/kg	15.9 =	26 =		19.5 =	15.6 =
Zinc	mg/kg	188 =	154 J		117 J	71.4 =
Total Organic Carbon	mg/kg	20,000 =	16,000 =	19,000 =	9,500 =	26,000 =

Table 4-39. Results for Sediment Samples – Inorganic Constituents and Total Organic Carbon (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	Outlet C and Charlie's Ponds LL1-287 LL1017 LL1sd-287-1017-SD 09/16/2000 0 - 1 Grab	Outlet C and Charlie's Ponds LL1-288 LL1018 LL1sd-288-1018-SD 09/16/2000 0 - 1 Grab	Outlet C and Charlie's Ponds LL1-289 LL1019 LL1sd-289-1019-SD 09/16/2000 0 - 1 Grab	Outlet C and Charlie's Ponds LL1-395 LL1269 LL1sd-395-1269-SD 09/26/2000 0 - 1 Grab	Outlets D, E, and F and Criggy's Pond LL1-049 LL1051 LL1sd-049-1051-SD 09/16/2000 0 - 1 Grab
Cyanide	mg/kg					
Chromium, hexavalent	mg/kg					
Aluminum	mg/kg	8,290 =	12,300 =	7,160 =	5,330 =	6,590 =
Antimony	mg/kg	1.4 UJ	2 UJ	1.4 UJ	1.4 UJ	1,180 J *
Arsenic	mg/kg	10.3 =	12.4 =	7.6 =	8.4 =	12.5 =
Barium	mg/kg	77.1 =	151 = *	82.3 =	73.6 =	88.5 =
Beryllium	mg/kg	0.53 J *	0.75 J *	0.79 = *	0.4 U	0.58 J *
Cadmium	mg/kg	0.17 U	1.1 = *	1.2 = *	0.79 = *	2.2 = *
Calcium	mg/kg	3,320 J	3,210 =	881 =	6,770 J *	4,760 =
Chromium	mg/kg	11 =	15.3 =	10.8 =	9.5 =	124 = *
Cobalt	mg/kg	7.2 =	11 = *	8.2 =	6 J	17 = *
Copper	mg/kg	13.4 =	14.6 J	14.7 J	16.1 =	183 J *
Iron	mg/kg	15,500 =	21,400 =	12,400 =	12,700 =	20,200 =
Lead	mg/kg	24.8 =	20.5 =	28.3 = *	36.5 J *	1,210 = *
Magnesium	mg/kg	1,320 =	1,880 =	1,120 =	1,030 U	2,350 =
Manganese	mg/kg	921 =	2,350 = *	1,420 =	856 U	720 =
Mercury	mg/kg	0.082 J *	0.069 J *	0.085 J *	0.088 J *	0.3 = *
Nickel	mg/kg	14.9 =	28.4 = *	21.1 = *	15.2 =	18.3 = *
Potassium	mg/kg	914 =	1,130 =	772 =	679 J	688 J
Selenium	mg/kg	0.55 J	1.2 =	0.63 J	1.9 U	1.6 =
Silver	mg/kg	1.4 U	2 U	1.4 U	1.4 U	1.6 U
Sodium	mg/kg	677 U	990 U	687 U	717 U	778 U
Thallium	mg/kg	0.6 J	0.79 J	0.54 J	0.57 U	0.58 J
Vanadium	mg/kg	15.8 =	25.3 =	13.2 =	14.3 =	17.5 =
Zinc	mg/kg	90 =	142 =	177 =	176 J	318 =
Total Organic Carbon	mg/kg	23,000 =	26,000 =	34,000 =	9,300 =	33,000 =

Table 4-39. Results for Sediment Samples – Inorganic Constituents and Total Organic Carbon (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	Outlets D, E, and F and Criggy's Pond LL1-050 LL1052 LL1sd-050-1052-SD 09/16/2000 0 - 1 Grab	Outlets D, E, and F and Criggy's Pond LL1-050 LL1134 LL1sd-050-1134-SD 09/16/2000 0 - 1 Field Duplicate	Outlets D, E, and F and Criggy's Pond LL1-051 LL1053 LL1sd-051-1053-SD 09/16/2000 0 - 1 Grab	Outlets D, E, and F and Criggy's Pond LL1-397 LL1136 LL1sd-397-1136-SD 09/27/2000 0 - 1 Field Duplicate	Outlets D, E, and F and Criggy's Pond LL1-397 LL1274 LL1sd-397-1274-SD 09/27/2000 0 - 1 Grab
Cyanide	mg/kg					
Chromium, hexavalent	mg/kg				5.6 J	11 J
Aluminum	mg/kg	5,260 =	7,300 =	9,310 =	13,700 =	13,300 =
Antimony	mg/kg	5.1 J *	14.6 J *	3 J *	2 J *	2 J *
Arsenic	mg/kg	9.5 =	7.2 =	10.4 =	17.8 =	21 = *
Barium	mg/kg	64.3 =	64.7 =	81.4 =	153 = *	158 = *
Beryllium	mg/kg	0.39 U	0.4 U	0.55 J *	1.1 = *	1.1 = *
Cadmium	mg/kg	1.4 = *	1.4 = *	0.69 J *	2.2 = *	2.4 = *
Calcium	mg/kg	4,750 =	3,910 =	985 =	6,240 = *	6,170 = *
Chromium	mg/kg	26.6 = *	21.4 = *	11.8 =	40.8 J *	40.5 J *
Cobalt	mg/kg	6.1 J	6.5 J	12.7 = *	11.9 = *	13.7 = *
Copper	mg/kg	254 = *	192 = *	9.5 J	1,030 = *	1,020 = *
Iron	mg/kg	27,800 =	19,500 =	17,700 =	28,700 = *	32,200 = *
Lead	mg/kg	37 = *	43 = *	21.5 =	127 = *	127 = *
Magnesium	mg/kg	922 J	1,170 =	1,270 =	1,810 =	1,830 =
Manganese	mg/kg	496 J	487 J	1,300 =	2,480 = *	2,750 = *
Mercury	mg/kg	0.066 J *	0.22 U	0.041 J	0.31 = *	0.29 = *
Nickel	mg/kg	24.9 = *	19.6 = *	16.7 =	40.3 = *	43.4 = *
Potassium	mg/kg	589 J	923 J	722 J	1,220 =	1,120 =
Selenium	mg/kg	2 = *	1.7 =	0.88 U	2.4 = *	2.2 = *
Silver	mg/kg	2.3 U	2.2 U	1.8 U	1.7 U	1.6 U
Sodium	mg/kg	1,160 U	1,120 U	878 U	104 U	132 U
Thallium	mg/kg	0.67 J	0.43 J	0.67 J	0.75 J	0.69 J
Vanadium	mg/kg	13.4 =	16.7 =	21.6 =	31.5 = *	31.8 = *
Zinc	mg/kg	516 J	535 J *	80.8 =	786 = *	805 = *
Total Organic Carbon	mg/kg	28,000 =	36,000 =	11,000 =	72,000 =	75,000 =

Table 4-39. Results for Sediment Samples – Inorganic Constituents and Total Organic Carbon (continued)

Location		Outlets D, E, and F and Criggy's Pond	Outlets D, E, and F and Criggy's Pond	North Area	Off-AOC	Off-AOC
Station		LL1-399	LL1-400	LL1-046	LL1-318	LL1-318
Sample ID		LL1275	LL1277	LL1048	LL1057	LL1098
Customer ID		LL1sd-399-1275-SD	LL1sd-400-1277-SD	LL1sd-046-1048-SD	LL1sd-318-1057-SD	LL1sd-318-1098-SD
Date		09/28/2000	09/28/2000	09/17/2000	09/15/2000	11/06/2000
Depth (ft)		0 - 1	0 - 1	0 - 1	0 - 1	0 - 1
Field Type		Grab	Grab	Grab	Grab	Grab
Analyte	Units					
Cyanide	mg/kg				0.8 U	
Chromium, hexavalent	mg/kg					
Aluminum	mg/kg	8,820 =	10,200 =	12,300 =	8,240 J	8,350 =
Antimony	mg/kg	1.7 UJ	1.4 UJ	1.9 UJ	1.6 U	1.7 UJ
Arsenic	mg/kg	18.2 =	16 =	8.5 =	7.2 =	6.6 =
Barium	mg/kg	168 = *	107 =	133 = *	91.5 =	95.3 =
Beryllium	mg/kg	0.77 U	0.62 U	0.84 J *	0.4 J *	0.44 U
Cadmium	mg/kg	1.5 = *	1.1 = *	0.44 J *	0.65 J *	0.54 J *
Calcium	mg/kg	3,830 J	2,960 J	2,640 J	1,490 =	1,400 =
Chromium	mg/kg	11.4 =	17.6 =	16.4 =	10.7 =	11.5 =
Cobalt	mg/kg	13.1 = *	11.5 = *	10.1 = *	15.6 = *	9.7 = *
Copper	mg/kg	30.4 = *	355 J *	18.3 =	7.5 =	9.9 =
Iron	mg/kg	30,800 = *	28,200 =	19,800 =	15,700 =	15,900 =
Lead	mg/kg	30.8 = *	42.4 = *	27.7 = *	16.1 =	16.2 =
Magnesium	mg/kg	1,190 =	1,460 =	2,090 =	1,430 =	1,480 =
Manganese	mg/kg	3,380 = *	1,800 =	755 =	317 =	489 =
Mercury	mg/kg	0.4 = *	0.17 = *	0.09 J *	0.033 J	0.082 J *
Nickel	mg/kg	37.8 = *	27.5 = *	24.8 = *	13.8 =	14.7 =
Potassium	mg/kg	780 J	795 =	1,200 =	778 J	637 J
Selenium	mg/kg	0.84 U	1.5 =	1.6 =	1 =	0.87 U
Silver	mg/kg	1.7 U	1.4 U	1.9 U	1.6 U	1.7 U
Sodium	mg/kg	84.8 J	71.4 J	97.8 U	797 U	869 U
Thallium	mg/kg	0.66 J	0.58 J	0.7 J	0.61 J	0.68 J
Vanadium	mg/kg	17.6 =	25.4 =	21.8 =	19.1 =	16.1 =
Zinc	mg/kg	515 J	516 J	220 =	80.9 =	73.9 =
Total Organic Carbon	mg/kg	51,000 =	34,000 =	18,000 J	12,000 =	9,900 =

Table 4-39. Results for Sediment Samples – Inorganic Constituents and Total Organic Carbon (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	Off-AOC LL1-319 LL1058 LL1sd-319-1058-SD 09/14/2000 0 - 1 Grab	Off-AOC LL1-319 LL1099 LL1sd-319-1099-SD 11/06/2000 0 - 1 Grab	Off-AOC LL1-321 LL1060 LL1sd-321-1060-SD 09/14/2000 0 - 1 Grab	Off-AOC LL1-321 LL1101 LL1sd-321-1101-SD 11/06/2000 0 - 1 Grab	Off-AOC LL1-322 LL1061 LL1sd-322-1061-SD 09/13/2000 0 - 1 Grab
Cyanide	mg/kg					
Chromium, hexavalent	mg/kg					
Aluminum	mg/kg	3,920 =	3,220 =	5,760 =	9,890 =	3,790 =
Antimony	mg/kg	1.2 UJ	1.3 UJ	1.6 UJ	1.9 UJ	1.9 UJ
Arsenic	mg/kg	4.8 =	13.2 =	16.1 =	17.2 =	13.5 =
Barium	mg/kg	31.4 =	26.9 =	39 =	68 =	47.4 =
Beryllium	mg/kg	0.45 J *	0.7 = *	0.26 U	0.4 U	0.18 U
Cadmium	mg/kg	0.11 J *	0.3 J *	0.16 J *	0.36 J *	0.23 J *
Calcium	mg/kg	8,210 J *	806 =	1,020 J	1,650 =	2,330 J
Chromium	mg/kg	3.7 =	7.1 =	8.7 =	14.6 =	5.9 =
Cobalt	mg/kg	2.2 J	4.7 J	5.9 J	10.7 = *	4.4 J
Copper	mg/kg	3.5 =	6 =	11.3 =	22.2 =	8.9 =
Iron	mg/kg	6,880 =	21,800 =	17,200 =	27,800 =	14,400 =
Lead	mg/kg	6.7 U	18.2 =	12.8 =	19.1 =	9 =
Magnesium	mg/kg	1,780 =	491 J	1,380 =	2,660 =	1,240 =
Manganese	mg/kg	195 =	198 =	300 =	543 =	466 =
Mercury	mg/kg	0.038 J	0.13 U	0.016 J	0.04 J	0.027 J
Nickel	mg/kg	4.1 J	6.6 =	13.6 =	25.4 = *	9.2 =
Potassium	mg/kg	320 J	177 J	621 =	1,220 =	483 J
Selenium	mg/kg	0.47 J	0.65 J	0.6 J	1.1 =	1.1 =
Silver	mg/kg	1.2 U	1.3 U	1.6 U	1.9 U	1.9 U
Sodium	mg/kg	99.7 U	657 U	88.5 U	930 U	107 U
Thallium	mg/kg	0.35 U	0.45 J	0.58 U	0.74 J	0.54 J
Vanadium	mg/kg	5.6 J	13.9 =	10.8 =	17.2 =	6.9 J
Zinc	mg/kg	22 =	62.9 =	48.1 =	82.8 =	70.8 =
Total Organic Carbon	mg/kg	2,500 =	7,100 =	13,000 =	9,300 =	23,000 =

Table 4-39. Results for Sediment Samples – Inorganic Constituents and Total Organic Carbon (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	Off-AOC LL1-322 LL1102 LL1sd-322-1102-SD 11/06/2000 0 - 1 Grab	Off-AOC LL1-323 LL1062 LL1sd-323-1062-SD 09/13/2000 0 - 1 Grab	Off-AOC LL1-323 LL1103 LL1sd-323-1103-SD 11/06/2000 0 - 1 Grab	Off-AOC LL1-323 LL1137 LL1sd-323-1137-SD 11/06/2000 0 - 1 Field Duplicate	Off-AOC LL1-391 LL1271 LL1sd-391-1271-SD 09/27/2000 0 - 1 Grab
Cyanide	mg/kg	0.89 U		0.87 U	1.2 U	
Chromium, hexavalent	mg/kg					
Aluminum	mg/kg	4,800 =	3,330 =	2,690 =	6,300 =	8,710 =
Antimony	mg/kg	1.8 UJ	1.8 UJ	1.7 UJ	2.3 UJ	1.6 UJ
Arsenic	mg/kg	12.3 =	14.6 =	8.2 =	23.4 = *	16.3 =
Barium	mg/kg	46.6 =	24.2 J	21.1 J	56 =	49 =
Beryllium	mg/kg	0.22 U	0.24 U	0.13 U	0.34 U	0.37 U
Cadmium	mg/kg	0.31 J *	0.18 J *	0.14 J *	0.38 J *	0.23 J *
Calcium	mg/kg	3,410 =	1,820 J	2,170 =	3,580 =	2,330 =
Chromium	mg/kg	7.4 =	5.1 =	4.1 =	9.2 =	12.5 J
Cobalt	mg/kg	5.9 J	4.6 J	4.1 J	10.8 J *	8.3 =
Copper	mg/kg	11.4 =	6.1 =	5.3 =	17.7 =	19.7 =
Iron	mg/kg	16,000 =	13,400 =	9,840 =	24,400 =	22,800 =
Lead	mg/kg	9.2 =	5.7 =	3.9 =	10.4 =	12.7 =
Magnesium	mg/kg	1,730 =	1,150 =	1,120 =	2,540 =	2,660 =
Manganese	mg/kg	295 =	173 =	122 =	295 =	276 =
Mercury	mg/kg	0.022 J	0.18 U	0.17 U	0.034 J	0.018 J
Nickel	mg/kg	11.4 =	9.3 =	7.5 =	18.1 = *	18.1 = *
Potassium	mg/kg	678 J	394 J	402 J	721 J	1,060 =
Selenium	mg/kg	0.67 J	0.83 J	0.87 U	1.2 U	0.78 U
Silver	mg/kg	1.8 U	1.8 U	1.7 U	2.3 U	1.6 U
Sodium	mg/kg	888 U	909 U	872 U	125 J *	776 U
Thallium	mg/kg	0.52 J	0.49 J	0.52 J	0.82 J	0.4 J
Vanadium	mg/kg	8.7 J	5.2 J	4.9 J	11.1 J	14.9 =
Zinc	mg/kg	79.4 =	49.5 =	47.2 =	125 =	79.8 =
Total Organic Carbon	mg/kg	11,000 =	16,000 =	13,000 =	15,000 =	8,000 =

Table 4-39. Results for Sediment Samples – Inorganic Constituents and Total Organic Carbon (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	Off-AOC LL1-392 LL1272 LL1sd-392-1272-SD 09/27/2000 0 - 1 Grab	Off-AOC LL1-393 LL1273 LL1sd-393-1273-SD 09/27/2000 0 - 1 Grab	Off-AOC LL1-320 LL1059 LL1sd-320-1059-SD 09/14/2000 0 - 1 Grab	Off-AOC LL1-320 LL1100 LL1sd-320-1100-SD 11/06/2000 0 - 1 Grab	Sewer Lines LL1-295 LL1025 LL1sd-295-1025-SD 09/18/2000 Grab
Cyanide	mg/kg					0.73 U
Chromium, hexavalent	mg/kg					1.5 UJ
Aluminum	mg/kg	3,380 =	4,720 =	2,320 =	9,300 =	6,440 =
Antimony	mg/kg	1.6 UJ	1.5 UJ	2.8 UJ	1.6 UJ	2.9 UJ
Arsenic	mg/kg	10.1 =	12 =	37.1 = *	37.9 = *	39 = *
Barium	mg/kg	28.8 J	30.3 =	25 J	58.9 =	276 = *
Beryllium	mg/kg	0.18 U	0.26 U	0.17 U	0.45 U	0.22 U
Cadmium	mg/kg	0.16 J *	0.13 J *	0.72 J *	0.25 J *	2.5 = *
Calcium	mg/kg	3,010 =	5,080 =	1,520 J	2,510 =	13,600 J *
Chromium	mg/kg	5.1 J	7.4 J	33.4 = *	17.8 =	39.4 = *
Cobalt	mg/kg	4 J	5.9 J	6.9 =	10.8 = *	9.1 =
Copper	mg/kg	8.3 =	11.7 =	227 = *	63.5 = *	638 = *
Iron	mg/kg	10,300 =	12,800 =	87,600 = *	51,700 = *	122,000 = *
Lead	mg/kg	5.7 =	9.2 =	25 =	21.2 =	306 J *
Magnesium	mg/kg	1,240 =	1,640 =	497 J	2,120 =	2,940 = *
Manganese	mg/kg	273 =	290 =	441 =	329 =	1,020 =
Mercury	mg/kg	0.16 U	0.014 J	0.14 U	0.035 J	1.3 = *
Nickel	mg/kg	7.4 =	10.5 =	53 = *	21.6 = *	44.7 J *
Potassium	mg/kg	464 J	468 J	278 J	1,080 =	770 =
Selenium	mg/kg	0.8 U	0.73 U	0.64 J	2.2 = *	1.5 U
Silver	mg/kg	1.6 U	1.5 U	1.4 U	1.6 U	3 = *
Sodium	mg/kg	112 U	94.6 U	75.8 U	807 U	160 J *
Thallium	mg/kg	0.22 J	0.38 J	0.36 U	0.76 J	0.66 =
Vanadium	mg/kg	6 J	7.8 =	5 J	26.7 = *	15.7 =
Zinc	mg/kg	43.8 =	50.9 =	303 =	88.2 =	2,480 J *
Total Organic Carbon	mg/kg	9,800 =	11,000 =	11,000 =	8,100 =	

Table 4-39. Results for Sediment Samples – Inorganic Constituents and Total Organic Carbon (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	Sewer Lines LL1-301 LL1031 LL1sd-301-1031-SD 09/25/2000 Grab	Sewer Lines LL1-306 LL1036 LL1sd-306-1036-SD 09/19/2000 Grab	Sewer Lines LL1-308 LL1038 LL1sd-308-1038-SD 09/19/2000 Grab	Sewer Lines LL1-310 LL1040 LL1sd-310-1040-SD 09/19/2000 Grab	Sewer Lines LL1-310 LL1139 LL1sd-310-1139-SD 09/19/2000 Field Duplicate
Cyanide	mg/kg					
Chromium, hexavalent	mg/kg	3.8 UJ	1.3 UJ	1.7 UJ	2.5 UJ	10.8 UJ
Aluminum	mg/kg	6,090 =	7,430 =	5,430 =	5,410 =	7,610 =
Antimony	mg/kg	3.8 UJ	0.67 UJ	1.7 UJ	185 J *	173 J *
Arsenic	mg/kg	9.1 =	7.9 =	20.9 = *	17.9 =	10.9 =
Barium	mg/kg	45.5 J	98.1 =	150 = *	117 =	146 = *
Beryllium	mg/kg	0.27 U	0.34 U	0.15 U	0.46 J *	0.6 J *
Cadmium	mg/kg	0.47 J *	1.3 = *	3.5 = *	3.4 = *	3 = *
Calcium	mg/kg	5,570 = *	18,500 J *	8,280 J *	16,800 J *	24,400 J *
Chromium	mg/kg	16.6 =	20.6 = *	62.1 = *	72.8 = *	49.9 = *
Cobalt	mg/kg	8.6 J	6.4 J	10.4 = *	11.1 = *	8.7 =
Copper	mg/kg	58.3 = *	41.6 = *	116 = *	217 = *	82.8 = *
Iron	mg/kg	41,700 = *	20,000 =	117,000 = *	98,800 = *	40,200 = *
Lead	mg/kg	28 = *	132 J *	159 J *	280 J *	302 J *
Magnesium	mg/kg	1,680 J	2,220 =	1,360 =	1,940 =	3,070 = *
Manganese	mg/kg	431 =	857 =	951 =	1,260 =	1,610 =
Mercury	mg/kg	0.17 J *	0.2 = *	0.13 J *	0.17 = *	0.2 = *
Nickel	mg/kg	32.7 = *	18.7 = *	48.4 = *	93.6 = *	30.3 = *
Potassium	mg/kg	697 U	815 J	1,030 J	583 J	920 J
Selenium	mg/kg	3.3 U	0.75 =	3 = *	2.4 = *	1.7 =
Silver	mg/kg	3.8 U	1.3 U	0.33 J *	0.19 J *	1.4 U
Sodium	mg/kg	1,900 UJ	99.6 U	871 U	260 U	307 U
Thallium	mg/kg	0.8 J	0.35 J	0.77 J	0.55 J	0.57 J
Vanadium	mg/kg	24.8 =	14.8 =	49.5 = *	15.1 =	21 =
Zinc	mg/kg	172 =	243 J	247 J	1,830 J *	1,540 J *

* = exceeds site-wide background criteria.
"=" = detected.
J = estimated.
U = not detected.
UJ = not detected, detection limit estimated.
R = rejected.
Blank fields indicate no analysis for a particular constituent was conducted.

Table 4-40. Results for Sediment Samples – Semivolatile Organic Constituents

Location		Outlets A and B	Outlets A and B	Outlet C and Charlie's Pond	Outlet C and Charlie's Pond	Outlet C and Charlie's Pond
Station		LL1-304	LL1-398	LL1-048	LL1-048	LL1-077
Sample ID		LL1034	LL1260	LL1050	LL1135	LL1015
Customer ID		LL1sd-304-1034-SD	LL1sd-398-1260-SD	LL1sd-048-1050-SD	LL1sd-048-1135-SD	LL1sd-077-1015-SD
Date		09/18/2000	09/28/2000	09/17/2000	09/17/2000	09/15/2000
Depth (ft)			0 - 1	0 - 1	0 - 1	0 - 1
Field Type		Grab	Grab	Grab	Field Duplicate	Grab
Analyte	Units					
1,2,4-Trichlorobenzene	mg/kg	3.7 U	0.62 U	0.43 U	0.37 U	0.47 U
1,2-Dichlorobenzene	mg/kg	3.7 U	0.62 U	0.43 U	0.37 U	0.47 U
1,3-Dichlorobenzene	mg/kg	3.7 U	0.62 U	0.43 U	0.37 U	0.47 U
1,4-Dichlorobenzene	mg/kg	3.7 U	0.62 U	0.43 U	0.37 U	0.47 U
2,4,5-Trichlorophenol	mg/kg	3.7 U	0.62 U	0.43 U	0.37 U	0.47 U
2,4,6-Trichlorophenol	mg/kg	3.7 U	0.62 U	0.43 U	0.37 U	0.47 U
2,4-Dichlorophenol	mg/kg	3.7 U	0.62 U	0.43 U	0.37 U	0.47 U
2,4-Dimethylphenol	mg/kg	3.7 U	0.62 U	0.43 U	0.37 U	0.47 U
2,4-Dinitrophenol	mg/kg	9 U	1.5 U	1 U	0.91 U	1.2 U
2,4-Dinitrotoluene	mg/kg	3.7 U	0.62 U	0.43 U	0.37 U	0.47 U
2,6-Dinitrotoluene	mg/kg	3.7 U	0.62 U	0.43 U	0.37 U	0.47 U
2-Chloronaphthalene	mg/kg	3.7 U	0.62 U	0.43 U	0.37 U	0.47 U
2-Chlorophenol	mg/kg	3.7 U	0.62 U	0.43 U	0.37 U	0.47 U
2-Methyl-4,6-dinitrophenol	mg/kg	9 U	1.5 U	1 U	0.91 U	1.2 U
2-Methylnaphthalene	mg/kg	3.7 U	0.62 U	0.43 U	0.37 U	0.47 U
2-Methylphenol	mg/kg	3.7 U	0.62 U	0.43 U	0.37 U	0.47 U
2-Nitrobenzenamine	mg/kg	9 U	1.5 U	1 U	0.91 U	1.2 U
2-Nitrophenol	mg/kg	3.7 U	0.62 U	0.43 U	0.37 U	0.47 U
3,3'-Dichlorobenzidine	mg/kg	3.7 U	0.62 U	0.43 U	0.37 U	0.47 U
3-Nitrobenzenamine	mg/kg	9 U	1.5 U	1 U	0.91 U	1.2 U
4-Bromophenyl phenyl ether	mg/kg	3.7 U	0.62 U	0.43 U	0.37 U	0.47 U
4-Chloro-3-methylphenol	mg/kg	3.7 U	0.62 U	0.43 U	0.37 U	0.47 U
4-Chlorobenzenamine	mg/kg	3.7 U	0.62 U	0.43 U	0.37 U	0.47 UJ
4-Chlorophenyl phenyl ether	mg/kg	3.7 U	0.62 U	0.43 U	0.37 U	0.47 U
4-Methylphenol	mg/kg	3.7 U	0.62 U	0.43 U	0.37 U	0.47 U
4-Nitrobenzenamine	mg/kg	9 U	1.5 U	1 U	0.91 U	1.2 U
4-Nitrophenol	mg/kg	9 U	1.5 U	1 U	0.91 U	1.2 U
Acenaphthene	mg/kg	0.7 J	0.62 U	0.43 U	0.37 U	0.47 U

Table 4-40. Results for Sediment Samples – Semivolatile Organic Constituents (continued)

Location		Outlets A and B	Outlets A and B	Outlet C and Charlie's Pond	Outlet C and Charlie's Pond	Outlet C and Charlie's Pond
Station		LL1-304	LL1-398	LL1-048	LL1-048	LL1-077
Sample ID		LL1034	LL1260	LL1050	LL1135	LL1015
Customer ID		LL1sd-304-1034-SD	LL1sd-398-1260-SD	LL1sd-048-1050-SD	LL1sd-048-1135-SD	LL1sd-077-1015-SD
Date		09/18/2000	09/28/2000	09/17/2000	09/17/2000	09/15/2000
Depth (ft)			0 - 1	0 - 1	0 - 1	0 - 1
Field Type		Grab	Grab	Grab	Field Duplicate	Grab
Analyte	Units					
Acenaphthylene	mg/kg	3.7 U	0.62 U	0.43 U	0.37 U	0.47 U
Anthracene	mg/kg	2.2 J	0.62 U	0.43 U	0.37 U	0.47 U
Benz(a)anthracene	mg/kg	9.2 =	0.099 J	0.077 J	0.063 J	0.056 J
Benzo(a)pyrene	mg/kg	9.5 =	0.098 J	0.084 J	0.074 J	0.056 J
Benzo(b)fluoranthene	mg/kg	12 =	0.14 J	0.18 J	0.16 J	0.071 J
Benzo(ghi)perylene	mg/kg	5.5 =	0.62 U	0.058 =	0.06 J	0.47 U
Benzo(k)fluoranthene	mg/kg	5.4 =	0.62 U	0.054 J	0.37 U	0.47 U
Bis(2-chloroethoxy)methane	mg/kg	3.7 UJ	0.62 U	0.43 U	0.37 U	0.47 U
Bis(2-chloroethyl) ether	mg/kg	3.7 U	0.62 U	0.43 U	0.37 U	0.47 U
Bis(2-chloroisopropyl) ether	mg/kg	3.7 U	0.62 U	0.43 U	0.37 U	0.47 U
Bis(2-ethylhexyl)phthalate	mg/kg	1.6 J	0.62 U	0.43 U	0.37 U	0.47 U
Butyl benzyl phthalate	mg/kg	9.4 =	0.62 U	0.43 U	0.37 U	0.47 U
Carbazole	mg/kg	0.71 J	0.62 U	0.43 U	0.37 U	0.47 U
Chrysene	mg/kg	3.7 U	0.14 J	0.13 J	0.12 J	0.47 U
Di-n-butyl phthalate	mg/kg	1.7 J	0.62 U	0.43 U	0.37 U	0.47 U
Di-n-octylphthalate	mg/kg	0.41 J	0.62 U	0.43 U	0.37 U	0.47 U
Dibenz(a,h)anthracene	mg/kg	3.7 U	0.62 U	0.43 U	0.37 U	0.47 U
Dibenzofuran	mg/kg	3.7 U	0.62 U	0.43 U	0.37 U	0.47 U
Diethyl phthalate	mg/kg	25 =	0.62 U	0.43 U	0.37 U	0.47 U
Dimethyl phthalate	mg/kg	1.1 J	0.62 U	0.43 U	0.37 U	0.47 U
Fluoranthene	mg/kg	3.7 U	0.19 J	0.14 J	0.12 J	0.073 J
Fluorene	mg/kg	3.7 U	0.62 U	0.43 U	0.37 U	0.47 U
Hexachlorobenzene	mg/kg	3.7 U	0.62 U	0.43 U	0.37 U	0.47 U
Hexachlorobutadiene	mg/kg	3.7 U	0.62 U	0.43 U	0.37 U	0.47 U
Hexachlorocyclopentadiene	mg/kg	6.7 =	0.62 U	0.43 U	0.37 U	0.47 U
Hexachloroethane	mg/kg	3.7 U	0.62 U	0.43 U	0.37 U	0.47 U
Indeno(1,2,3-cd)pyrene	mg/kg	3.7 U	0.62 U	0.076 J	0.058 J	0.47 U
Isophorone	mg/kg	3.7 U	0.62 U	0.43 U	0.37 U	0.47 U

Table 4-40. Results for Sediment Samples – Semivolatile Organic Constituents (continued)

Location		Outlets A and B	Outlets A and B	Outlet C and Charlie's Pond	Outlet C and Charlie's Pond	Outlet C and Charlie's Pond
Station		LL1-304	LL1-398	LL1-048	LL1-048	LL1-077
Sample ID		LL1034	LL1260	LL1050	LL1135	LL1015
Customer ID		LL1sd-304-1034-SD	LL1sd-398-1260-SD	LL1sd-048-1050-SD	LL1sd-048-1135-SD	LL1sd-077-1015-SD
Date		09/18/2000	09/28/2000	09/17/2000	09/17/2000	09/15/2000
Depth (ft)			0 - 1	0 - 1	0 - 1	0 - 1
Field Type		Grab	Grab	Grab	Field Duplicate	Grab
Analyte	Units					
N-Nitroso-di-n-propylamine	mg/kg	0.39 J	0.62 U	0.43 U	0.37 U	0.47 U
N-Nitrosodiphenylamine	mg/kg	3.7 U	0.62 U	0.43 U	0.37 U	0.47 U
Naphthalene	mg/kg	9 U	0.62 U	0.43 U	0.37 U	0.47 U
Nitrobenzene	mg/kg	12 =	0.62 U	0.43 U	0.37 U	0.47 U
Pentachlorophenol	mg/kg	3.7 U	1.5 U	1 U	0.91 U	1.2 U
Phenanthrene	mg/kg	15 =	0.62 U	0.059 J	0.053 J	0.47 U
Phenol	mg/kg	3.7 U	0.62 U	0.43 U	0.37 U	0.47 U
Pyrene	mg/kg	3.7 U	0.16 J	0.15 J	0.12 J	0.47 U

Table 4-40. Results for Sediment Samples – Semivolatile Organic Constituents (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	Off-AOC LL1-318 LL1057 LL1sd-318-1057-SD 09/15/2000 0 - 1 Grab	Off-AOC LL1-323 LL1103 LL1sd-323-1103-SD 11/06/2000 0 - 1 Grab	Off-AOC LL1-323 LL1137 LL1sd-323-1137-SD 11/06/2000 0 - 1 Field Duplicate	Sewer Lines LL1-295 LL1025 LL1sd-295-1025-SD 09/18/2000 Grab
1,2,4-Trichlorobenzene	mg/kg	0.53 U	0.58 U	0.78 U	0.48 U
1,2-Dichlorobenzene	mg/kg	0.53 U	0.58 U	0.78 U	0.48 U
1,3-Dichlorobenzene	mg/kg	0.53 U	0.58 U	0.78 U	0.48 U
1,4-Dichlorobenzene	mg/kg	0.53 U	0.58 U	0.78 U	0.48 U
2,4,5-Trichlorophenol	mg/kg	0.53 U	0.58 U	0.78 U	0.48 U
2,4,6-Trichlorophenol	mg/kg	0.53 U	0.58 U	0.78 U	0.48 U
2,4-Dichlorophenol	mg/kg	0.53 U	0.58 U	0.78 U	0.48 U
2,4-Dimethylphenol	mg/kg	0.53 U	0.58 U	0.78 U	0.48 U
2,4-Dinitrophenol	mg/kg	1.3 U	1.4 U	1.9 U	1.2 UJ
2,4-Dinitrotoluene	mg/kg	0.53 U	0.58 U	0.78 U	0.48 U
2,6-Dinitrotoluene	mg/kg	0.53 U	0.58 U	0.78 U	0.48 U
2-Chloronaphthalene	mg/kg	0.53 U	0.58 U	0.78 U	0.48 U
2-Chlorophenol	mg/kg	0.53 U	0.58 U	0.78 U	0.48 U
2-Methyl-4,6-dinitrophenol	mg/kg	1.3 U	1.4 U	1.9 U	1.2 U
2-Methylnaphthalene	mg/kg	0.53 U	0.58 U	0.78 U	0.48 U
2-Methylphenol	mg/kg	0.53 U	0.58 U	0.78 U	0.48 U
2-Nitrobenzenamine	mg/kg	1.3 U	1.4 U	1.9 U	1.2 U
2-Nitrophenol	mg/kg	0.53 U	0.58 U	0.78 U	0.48 U
3,3'-Dichlorobenzidine	mg/kg	0.53 U	0.58 U	0.78 U	0.48 UJ
3-Nitrobenzenamine	mg/kg	1.3 U	1.4 U	1.9 U	1.2 U
4-Bromophenyl phenyl ether	mg/kg	0.53 U	0.58 U	0.78 U	0.48 U
4-Chloro-3-methylphenol	mg/kg	0.53 U	0.58 U	0.78 U	0.48 U
4-Chlorobenzenamine	mg/kg	0.53 UJ	0.58 U	0.78 U	0.48 U
4-Chlorophenyl phenyl ether	mg/kg	0.53 U	0.58 U	0.78 U	0.48 U
4-Methylphenol	mg/kg	0.53 U	0.58 U	0.78 U	0.48 U
4-Nitrobenzenamine	mg/kg	1.3 U	1.4 U	1.9 U	1.2 U
4-Nitrophenol	mg/kg	1.3 U	1.4 U	1.9 U	1.2 U
Acenaphthene	mg/kg	0.53 U	0.58 U	0.78 U	0.48 U
Acenaphthylene	mg/kg	0.53 U	0.58 U	0.78 U	0.48 U

Table 4-40. Results for Sediment Samples – Semivolatile Organic Constituents (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	Off-AOC LL1-318 LL1057 LL1sd-318-1057-SD 09/15/2000 0 - 1 Grab	Off-AOC LL1-323 LL1103 LL1sd-323-1103-SD 11/06/2000 0 - 1 Grab	Off-AOC LL1-323 LL1137 LL1sd-323-1137-SD 11/06/2000 0 - 1 Field Duplicate	Sewer Lines LL1-295 LL1025 LL1sd-295-1025-SD 09/18/2000 Grab
Anthracene	mg/kg	0.53 U	0.58 U	0.78 U	0.48 U
Benz(a)anthracene	mg/kg	0.53 U	0.58 U	0.78 U	0.09 J
Benzo(a)pyrene	mg/kg	0.53 U	0.58 U	0.78 U	0.12 J
Benzo(b)fluoranthene	mg/kg	0.53 U	0.58 U	0.78 U	0.18 J
Benzo(ghi)perylene	mg/kg	0.53 U	0.58 U	0.78 U	0.11 J
Benzo(k)fluoranthene	mg/kg	0.53 U	0.58 U	0.78 U	0.066 J
Bis(2-chloroethoxy)methane	mg/kg	0.53 U	0.58 U	0.78 U	0.48 U
Bis(2-chloroethyl) ether	mg/kg	0.53 U	0.58 U	0.78 U	0.48 U
Bis(2-chloroisopropyl) ether	mg/kg	0.53 U	0.58 U	0.78 U	0.48 U
Bis(2-ethylhexyl)phthalate	mg/kg	0.53 U	0.58 U	0.78 U	0.48 U
Butyl benzyl phthalate	mg/kg	0.53 U	0.58 U	0.78 U	0.11 J
Carbazole	mg/kg	0.53 U	0.58 U	0.78 U	0.48 U
Chrysene	mg/kg	0.53 U	0.58 U	0.78 U	0.48 U
Di-n-butyl phthalate	mg/kg	0.53 U	0.58 U	0.78 U	0.48 U
Di-n-octylphthalate	mg/kg	0.53 U	0.58 U	0.78 U	0.48 U
Dibenz(a,h)anthracene	mg/kg	0.53 U	0.58 U	0.78 U	0.48 U
Dibenzofuran	mg/kg	0.53 U	0.58 U	0.78 U	0.48 U
Diethyl phthalate	mg/kg	0.53 U	0.58 U	0.78 U	0.24 J
Dimethyl phthalate	mg/kg	0.53 U	0.58 U	0.78 U	0.48 U
Fluoranthene	mg/kg	0.53 U	0.58 U	0.78 U	0.48 U
Fluorene	mg/kg	0.53 U	0.58 U	0.78 U	0.48 U
Hexachlorobenzene	mg/kg	0.53 U	0.58 U	0.78 U	0.48 U
Hexachlorobutadiene	mg/kg	0.53 U	0.58 U	0.78 U	0.48 U
Hexachlorocyclopentadiene	mg/kg	0.53 U	0.58 U	0.78 U	0.098 J
Hexachloroethane	mg/kg	0.53 U	0.58 U	0.78 U	0.48 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.53 U	0.58 U	0.78 U	0.48 U
Isophorone	mg/kg	0.53 U	0.58 U	0.78 U	0.48 U
N-Nitroso-di-n-propylamine	mg/kg	0.53 U	0.58 U	0.78 U	0.48 U
N-Nitrosodiphenylamine	mg/kg	0.53 U	0.58 U	0.78 U	0.48 U

Table 4-40. Results for Sediment Samples – Semivolatile Organic Constituents (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	Off-AOC LL1-318 LL1057 LL1sd-318-1057-SD 09/15/2000 0 - 1 Grab	Off-AOC LL1-323 LL1103 LL1sd-323-1103-SD 11/06/2000 0 - 1 Grab	Off-AOC LL1-323 LL1137 LL1sd-323-1137-SD 11/06/2000 0 - 1 Field Duplicate	Sewer Lines LL1-295 LL1025 LL1sd-295-1025-SD 09/18/2000 Grab
Naphthalene	mg/kg	0.53 U	0.58 U	0.78 U	1.2 U
Nitrobenzene	mg/kg	0.53 U	0.58 U	0.78 U	0.1 J
Pentachlorophenol	mg/kg	1.3 U	1.4 U	1.9 U	0.48 U
Phenanthrene	mg/kg	0.53 U	0.58 U	0.78 U	0.16 J
Phenol	mg/kg	0.53 U	0.58 U	0.78 U	0.48 U
Pyrene	mg/kg	0.53 U	0.58 U	0.78 U	0.48 U

"=" = detected.
J = estimated.
U = not detected.
UJ = not detected, detection limit estimated.
R = rejected.
Blank fields indicate no analysis for a particular constituent was conducted.

Table 4-41. Results for Sediment Samples – Volatile Organic Constituents

Location		Outlets A and B	Outlets A and B	Outlet C and Charlie's Pond	Outlet C and Charlie's Pond	Outlet C and Charlie's Pond
Station		LL1-304	LL1-398	LL1-048	LL1-048	LL1-077
Sample ID		LL1034	LL1260	LL1050	LL1135	LL1015
Customer ID		LL1sd-304-1034-SD	LL1sd-398-1260-SD	LL1sd-048-1050-SD	LL1sd-048-1135-SD	LL1sd-077-1015-SD
Date		09/18/2000	09/28/2000	09/17/2000	09/17/2000	09/15/2000
Depth (ft)			0 - 1	0 - 1	0 - 1	0 - 1
Field Type		Grab	Grab	Grab	Field Duplicate	Grab
Analyte	Units					
1,1,1-Trichloroethane	mg/kg	0.0084 U	0.0094 U	0.0065 U	0.0057 U	0.0072 U
1,1,2,2-Tetrachloroethane	mg/kg	0.0084 U	0.0094 UJ	0.0065 UJ	0.0057 UJ	0.0072 U
1,1,2-Trichloroethane	mg/kg	0.0084 U	0.0094 U	0.0065 U	0.0057 U	0.0072 U
1,1-Dichloroethane	mg/kg	0.0084 U	0.0094 U	0.0065 U	0.0057 U	0.0072 U
1,1-Dichloroethene	mg/kg	0.0084 U	0.0094 U	0.0065 U	0.0057 U	0.0072 U
1,2-Dibromoethane	mg/kg	0.0084 U	0.0094 U	0.0065 U	0.0057 U	0.0072 U
1,2-Dichloroethane	mg/kg	0.0084 U	0.0094 U	0.0065 U	0.0057 U	0.0072 U
1,2-Dichloroethene	mg/kg	0.0076 J	0.0022 J	0.01 =	0.0085 =	0.0072 U
1,2-Dichloropropane	mg/kg	0.0084 U	0.0094 U	0.0065 U	0.0057 U	0.0072 U
2-Butanone	mg/kg	0.017 UJ	0.019 UJ	0.013 UJ	0.011 UJ	0.014 UJ
2-Hexanone	mg/kg	0.017 UJ	0.019 UJ	0.013 UJ	0.011 UJ	0.014 UJ
4-Methyl-2-pentanone	mg/kg	0.017 U	0.019 U	0.013 UJ	0.011 UJ	0.014 UJ
Acetone	mg/kg	0.017 UJ	0.019 UJ	0.013 UJ	0.011 UJ	0.0096 J
Benzene	mg/kg	0.0084 U	0.0094 U	0.0065 U	0.0057 U	0.0072 U
Bromochloromethane	mg/kg	0.0084 U	0.0094 U	0.0065 U	0.0057 U	0.0072 U
Bromodichloromethane	mg/kg	0.0084 U	0.0094 U	0.0065 U	0.0057 U	0.0072 U
Bromoform	mg/kg	0.0084 U	0.0094 U	0.0065 U	0.0057 U	0.0072 U
Bromomethane	mg/kg	0.017 U	0.019 U	0.013 U	0.011 U	0.014 U
Carbon disulfide	mg/kg	0.0084 U	0.0094 U	0.0065 U	0.0057 U	0.0072 U
Carbon tetrachloride	mg/kg	0.0084 U	0.0094 U	0.0065 U	0.0057 U	0.0072 U
Chlorobenzene	mg/kg	0.0084 U	0.0094 U	0.0065 U	0.0057 U	0.0072 U
Chloroethane	mg/kg	0.017 U	0.019 U	0.013 U	0.011 U	0.014 U
Chloroform	mg/kg	0.0084 U	0.0094 U	0.0065 U	0.0057 U	0.0072 U
Chloromethane	mg/kg	0.017 U	0.019 U	0.013 U	0.011 U	0.014 U
Dibromochloromethane	mg/kg	0.0084 U	0.0094 U	0.0065 U	0.0057 U	0.0072 U
Dimethylbenzene	mg/kg	0.0084 U	0.0094 U	0.0065 U	0.0057 U	0.0072 U
Ethylbenzene	mg/kg	0.0084 U	0.0094 U	0.0065 U	0.0057 U	0.0072 U
Methylene chloride	mg/kg	0.0084 U	0.0094 U	0.0065 U	0.0057 U	0.0072 U

Table 4-41. Results for Sediment Samples – Volatile Organic Constituents (continued)

Location		Outlets A and B	Outlets A and B	Outlet C and Charlie's Pond	Outlet C and Charlie's Pond	Outlet C and Charlie's Pond
Station		LL1-304	LL1-398	LL1-048	LL1-048	LL1-077
Sample ID		LL1034	LL1260	LL1050	LL1135	LL1015
Customer ID		LL1sd-304-1034-SD	LL1sd-398-1260-SD	LL1sd-048-1050-SD	LL1sd-048-1135-SD	LL1sd-077-1015-SD
Date		09/18/2000	09/28/2000	09/17/2000	09/17/2000	09/15/2000
Depth (ft)			0 - 1	0 - 1	0 - 1	0 - 1
Field Type		Grab	Grab	Grab	Field Duplicate	Grab
Analyte	Units					
Styrene	mg/kg	0.0084 U	0.0094 U	0.0065 UJ	0.0057 UJ	0.0072 U
Tetrachloroethene	mg/kg	0.0084 U	0.0094 U	0.0065 U	0.0057 U	0.0072 U
Toluene	mg/kg	0.0084 U	0.0025 J	0.0065 U	0.0057 U	0.0072 U
Trichloroethene	mg/kg	0.0084 U	0.012 =	0.0065 U	0.0057 U	0.0072 U
Vinyl chloride	mg/kg	0.017 U	0.019 U	0.013 U	0.011 U	0.014 U
cis-1,3-Dichloropropene	mg/kg	0.0084 U	0.0094 U	0.0065 U	0.0057 U	0.0072 U
trans-1,3-Dichloropropene	mg/kg	0.0084 U	0.0094 U	0.0065 U	0.0057 U	0.0072 U

Table 4-41. Results for Sediment Samples – Volatile Organic Constituents (continued)

Location		Off-AOC	Off-AOC	Off-AOC	Sewer Lines
Station		LL1-318	LL1-323	LL1-323	LL1-295
Sample ID		LL1057	LL1103	LL1137	LL1025
Customer ID		LL1sd-318-1057-SD	LL1sd-323-1103-SD	LL1sd-323-1137-SD	LL1sd-295-1025-SD
Date		09/15/2000	11/06/2000	11/06/2000	09/18/2000
Depth (ft)		0 - 1	0 - 1	0 - 1	
Field Type		Grab	Grab	Field Duplicate	Grab
Analyte	Units				
1,1,1-Trichloroethane	mg/kg	0.008 U	0.0087 U	0.012 U	0.0073 U
1,1,2,2-Tetrachloroethane	mg/kg	0.008 U	0.0087 U	0.012 U	0.0073 U
1,1,2-Trichloroethane	mg/kg	0.008 U	0.0087 U	0.012 U	0.0073 U
1,1-Dichloroethane	mg/kg	0.008 U	0.0087 U	0.012 U	0.0073 U
1,1-Dichloroethene	mg/kg	0.008 U	0.0087 U	0.012 U	0.0073 U
1,2-Dibromoethane	mg/kg	0.008 U	0.0087 U	0.012 U	0.0073 U
1,2-Dichloroethane	mg/kg	0.008 U	0.0087 U	0.012 U	0.0073 U
1,2-Dichloroethene	mg/kg	0.008 U	0.0087 U	0.012 U	0.0068 J
1,2-Dichloropropane	mg/kg	0.008 U	0.0087 U	0.012 U	0.0073 U
2-Butanone	mg/kg	0.009 J	0.0093 J	0.015 J	0.015 UJ
2-Hexanone	mg/kg	0.016 UJ	0.017 UJ	0.023 UJ	0.015 UJ
4-Methyl-2-pentanone	mg/kg	0.016 UJ	0.017 U	0.023 U	0.015 UJ
Acetone	mg/kg	0.035 J	0.033 J	0.056 J	0.015 UJ
Benzene	mg/kg	0.008 U	0.0087 U	0.012 U	0.0073 U
Bromochloromethane	mg/kg	0.008 U	0.0087 U	0.012 U	0.0073 U
Bromodichloromethane	mg/kg	0.008 U	0.0087 U	0.012 U	0.0073 U
Bromoform	mg/kg	0.008 U	0.0087 U	0.012 U	0.0073 U
Bromomethane	mg/kg	0.016 U	0.017 U	0.023 U	0.015 U
Carbon disulfide	mg/kg	0.008 U	0.0087 U	0.012 U	0.0073 U
Carbon tetrachloride	mg/kg	0.008 U	0.0087 U	0.012 U	0.0073 U
Chlorobenzene	mg/kg	0.008 U	0.0087 U	0.012 U	0.0073 U
Chloroethane	mg/kg	0.016 U	0.017 UJ	0.023 UJ	0.015 U
Chloroform	mg/kg	0.008 U	0.0087 U	0.012 U	0.0073 U
Chloromethane	mg/kg	0.016 U	0.017 U	0.023 U	0.015 U
Dibromochloromethane	mg/kg	0.008 U	0.0087 U	0.012 U	0.0073 U
Dimethylbenzene	mg/kg	0.008 U	0.0087 U	0.012 U	0.0073 U
Ethylbenzene	mg/kg	0.008 U	0.0087 U	0.012 U	0.0073 U
Methylene chloride	mg/kg	0.008 U	0.0087 U	0.012 U	0.0037 J
Styrene	mg/kg	0.008 UJ	0.0087 U	0.012 U	0.0073 U

Table 4-41. Results for Sediment Samples – Volatile Organic Constituents (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	Off-AOC LL1-318 LL1057 LL1sd-318-1057-SD 09/15/2000 0 - 1 Grab	Off-AOC LL1-323 LL1103 LL1sd-323-1103-SD 11/06/2000 0 - 1 Grab	Off-AOC LL1-323 LL1137 LL1sd-323-1137-SD 11/06/2000 0 - 1 Field Duplicate	Sewer Lines LL1-295 LL1025 LL1sd-295-1025-SD 09/18/2000 Grab
Tetrachloroethene	mg/kg	0.008 U	0.0087 U	0.012 U	0.0073 U
Toluene	mg/kg	0.008 U	0.0087 U	0.012 U	0.017 =
Trichloroethene	mg/kg	0.008 U	0.0087 U	0.012 U	0.0073 U
Vinyl chloride	mg/kg	0.016 U	0.017 U	0.023 U	0.015 U
cis-1,3-Dichloropropene	mg/kg	0.008 U	0.0087 U	0.012 U	0.0073 U
trans-1,3-Dichloropropene	mg/kg	0.008 U	0.0087 U	0.012 U	0.0073 U

"=" = detected.
J = estimated.
U = not detected.
UJ = not detected, detection limit estimated.
R = rejected.
Blank fields indicate no analysis for a particular constituent was conducted.

Table 4-42. Results for Sediment Samples – Pesticide/PCB Constituents

Location		Outlets A and B	Outlets A and B	Outlet C and Charlie's Pond	Outlet C and Charlie's Pond	Outlet C and Charlie's Pond
Station		LL1-304	LL1-398	LL1-048	LL1-048	LL1-077
Sample ID		LL1034	LL1260	LL1050	LL1135	LL1015
Customer ID		LL1sd-304-1034-SD	LL1sd-398-1260-SD	LL1sd-048-1050-SD	LL1sd-048-1135-SD	LL1sd-077-1015-SD
Date		09/18/2000	09/28/2000	09/17/2000	09/17/2000	09/15/2000
Depth (ft)		0 - 1	0 - 1	0 - 1	0 - 1	0 - 1
Field Type		Grab	Grab	Grab	Field Duplicate	Grab
Analyte	Units					
4,4'-DDD	mg/kg	0.029 U	0.032 U	0.022 U	0.039 U	0.0024 U
4,4'-DDE	mg/kg	0.029 U	0.032 U	0.022 J	0.039 U	0.0024 U
4,4'-DDT	mg/kg	0.029 U	0.032 U	0.022 U	0.039 U	0.0024 UJ
Aldrin	mg/kg	0.029 U	0.032 U	0.022 U	0.039 U	0.0024 U
Dieldrin	mg/kg	0.029 U	0.032 U	0.022 U	0.039 U	0.0024 U
Endosulfan I	mg/kg	0.029 U	0.032 U	0.022 U	0.039 U	0.0024 U
Endosulfan II	mg/kg	0.029 U	0.032 U	0.022 U	0.039 U	0.0024 U
Endosulfan sulfate	mg/kg	0.029 U	0.032 U	0.022 U	0.039 U	0.0024 U
Endrin	mg/kg	0.054 =	0.032 U	0.022 U	0.039 U	0.0024 U
Endrin aldehyde	mg/kg	0.029 U	0.032 U	0.022 U	0.039 U	0.0024 U
Endrin ketone	mg/kg	0.029 U	0.032 U	0.022 U	0.039 U	0.0024 U
Heptachlor	mg/kg	0.029 U	0.032 U	0.022 U	0.039 U	0.0024 U
Heptachlor epoxide	mg/kg	0.029 U	0.032 U	0.022 U	0.039 U	0.0024 U
Lindane	mg/kg	0.029 U	0.032 U	0.022 U	0.039 U	0.0024 U
Methoxychlor	mg/kg	0.056 U	0.062 U	0.043 U	0.075 U	0.0047 U
PCB-1016	mg/kg	0.056 U	0.062 U	0.43 U	0.37 U	0.047 U
PCB-1221	mg/kg	0.056 U	0.062 U	0.43 U	0.37 U	0.047 U
PCB-1232	mg/kg	0.056 U	0.062 U	0.43 U	0.37 U	0.047 U
PCB-1242	mg/kg	0.056 U	0.062 U	0.43 U	0.37 U	0.047 U
PCB-1248	mg/kg	0.056 U	0.062 U	0.43 U	0.37 U	0.047 U
PCB-1254	mg/kg	0.092 =	0.61 =	0.87 =	0.63 =	0.047 U
PCB-1260	mg/kg	0.056 U	0.062 U	0.43 U	0.37 U	0.047 U
Toxaphene	mg/kg	1.1 U	1.3 U	0.87 U	1.5 U	0.096 U
alpha-BHC	mg/kg	0.029 U	0.032 U	0.022 U	0.039 U	0.0024 U
alpha-Chlordane	mg/kg	0.029 U	0.032 U	0.022 U	0.039 U	0.0024 U
beta-BHC	mg/kg	0.029 U	0.032 U	0.022 U	0.039 U	0.0024 U
delta-BHC	mg/kg	0.029 U	0.032 U	0.022 U	0.039 U	0.0024 U
gamma-Chlordane	mg/kg	0.029 U	0.032 J	0.022 U	0.039 U	0.0024 U

Table 4-42. Results for Sediment Samples – Pesticide/PCB Constituents (continued)

Location Station Sample ID Customer ID Date Depth (ft) Field Type Analyte	Units	Off-AOC LL1-318 LL1057 LL1sd-318-1057-SD 09/15/2000 0 - 1 Grab	Off-AOC LL1-323 LL1103 LL1sd-323-1103-SD 11/06/2000 0 - 1 Grab	Off-AOC LL1-323 LL1137 LL1sd-323-1137-SD 11/06/2000 0 - 1 Field Duplicate	Sewer Lines LL1-295 LL1025 LL1sd-295-1025-SD 09/18/2000 0 - 1 Grab
4,4'-DDD	mg/kg	0.0027 U	0.003 U	0.004 U	0.012 U
4,4'-DDE	mg/kg	0.0027 U	0.003 U	0.004 U	0.012 U
4,4'-DDT	mg/kg	0.0027 UJ	0.003 U	0.004 U	0.012 U
Aldrin	mg/kg	0.0027 U	0.003 U	0.004 U	0.012 U
Dieldrin	mg/kg	0.0027 U	0.003 U	0.004 U	0.012 U
Endosulfan I	mg/kg	0.0027 U	0.003 U	0.004 U	0.012 U
Endosulfan II	mg/kg	0.0027 U	0.003 U	0.004 U	0.012 U
Endosulfan sulfate	mg/kg	0.0027 U	0.003 U	0.004 U	0.012 U
Endrin	mg/kg	0.0027 UJ	0.003 U	0.004 U	0.012 U
Endrin aldehyde	mg/kg	0.0027 U	0.003 U	0.004 U	0.027 J
Endrin ketone	mg/kg	0.0027 U	0.003 U	0.004 U	0.012 U
Heptachlor	mg/kg	0.0027 U	0.003 U	0.004 U	0.012 U
Heptachlor epoxide	mg/kg	0.0027 U	0.003 U	0.004 U	0.012 U
Lindane	mg/kg	0.0027 U	0.003 U	0.004 U	0.012 U
Methoxychlor	mg/kg	0.0053 U	0.0058 U	0.0078 U	0.024 U
PCB-1016	mg/kg	0.053 U	0.058 U	0.078 U	0.48 U
PCB-1221	mg/kg	0.053 U	0.058 U	0.078 U	0.48 U
PCB-1232	mg/kg	0.053 U	0.058 U	0.078 U	0.48 U
PCB-1242	mg/kg	0.053 U	0.058 U	0.078 U	0.48 U
PCB-1248	mg/kg	0.053 U	0.058 U	0.078 U	0.48 U
PCB-1254	mg/kg	0.053 U	0.058 U	0.078 U	2.1 =
PCB-1260	mg/kg	0.053 U	0.058 U	0.078 U	0.48 U
Toxaphene	mg/kg	0.11 U	0.12 U	0.16 U	0.49 U
alpha-BHC	mg/kg	0.0027 U	0.003 U	0.004 U	0.012 U
alpha-Chlordane	mg/kg	0.0027 U	0.003 U	0.004 U	0.012 U
beta-BHC	mg/kg	0.0027 U	0.003 U	0.004 U	0.012 U
delta-BHC	mg/kg	0.0027 U	0.003 UJ	0.004 UJ	0.012 U
gamma-Chlordane	mg/kg	0.0027 U	0.003 U	0.004 U	0.012 U

* = exceeds site-wide background criteria.
"=" = detected.
J = estimated.
U = not detected.
UJ = not detected, detection limit estimated.
R = rejected.
PCB = polychlorinated biphenyl.
Blank fields indicate no analysis for a particular constituent was conducted.

Table 4-43. Results for Surface Water Samples – Inorganic Constituents

Location		Outlet C and Charlie's Pond	Outlets D, E, and F and Criggy's Pond	Outlets D, E, and F and Criggy's Pond	Off-AOC	Off-AOC	Off-AOC
Station		LL1-059	LL1-053	LL1-053	LL1-319	LL1-319	LL1-320
Sample ID		LL1070	LL1071	LL1140	LL1073	LL1093	LL1074
Customer ID		LL1sw-059-1070-SW	LL1sw-053-1071-SW	LL1sw-053-1140-SW	LL1sw-319-1073-SW	LL1sw-319-1093-SW	LL1sw-320-1074-SW
Date		09/15/2000	09/18/2000	09/18/2000	09/14/2000	11/06/2000	09/14/2000
Filtered		Total	Total	Total	Total	Total	Total
Field Type		Grab	Grab	Field Duplicate	Grab	Grab	Grab
Analyte	Units						
Cyanide	µg/L	10 U	10 U	10 U	10 U	10 U	10 U
Aluminum	µg/L	1,300 =	73 U	62 U	950 =	250 U	680 =
Antimony	µg/L	5 U	5 U	5 U	5 U	5 U	5 U
Arsenic	µg/L	31 = *	5.1 = *	4.6 J *	5 U	5 U	7.2 = *
Barium	µg/L	49 J *	27 J	23 J	47 J	37 J	36 J
Beryllium	µg/L	4 U	4 U	4 U	4 U	4 U	4 U
Cadmium	µg/L	5 U	5 U	5 U	5 U	5 U	5 U
Calcium	µg/L	13,900 =	17,400 =	13,900 =	27,300 =	28,100 =	39,800 =
Chromium	µg/L	2.4 J *	10 U	10 U	10 U	1.5 U	10 U
Cobalt	µg/L	50 U	50 U	50 U	50 U	50 U	4.4 J *
Copper	µg/L	25 U	25 U	25 U	25 U	25 U	25 U
Iron	µg/L	10,400 = *	320 =	200 =	2,000 =	900 =	2,900 = *
Lead	µg/L	3.1 = *	3 U	3 U	3 U	3 U	3 U
Magnesium	µg/L	3,600 J	4,600 J	3,700 J	4,800 J	4,800 J	15,500 = *
Manganese	µg/L	510 = *	170 =	130 =	320 =	130 =	1,400 = *
Mercury	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	µg/L	4.2 J *	40 U	40 U	2.4 J *	4.2 U	9.6 J *
Potassium	µg/L	3,700 J *	2,500 J	2,300 J	2,700 J	2,500 J	1,800 J
Selenium	µg/L	5 U	5 U	5 U	5 U	5 U	5 U
Silver	µg/L	10 U	10 U	10 U	10 U	10 U	10 U
Sodium	µg/L	2,600 J	2,700 J	2,200 J	3,700 =	3,300 U	3,400 J
Thallium	µg/L	2 U	2 UJ	2 UJ	2 U	2 U	2 U
Vanadium	µg/L	2.6 J *	50 U	50 U	2 J *	50 U	1.2 J *
Zinc	µg/L	29 =	20 U	20 U	17 J	71 = *	20 U

Table 4-43. Results for Surface Water Samples – Inorganic Constituents (continued)

Location		Off-AOC	Off-AOC	Off-AOC	Off-AOC	Off-AOC	Off-AOC
Station		LL1-320	LL1-318	LL1-318	LL1-321	LL1-321	LL1-322
Sample ID		LL1094	LL1072	LL1092	LL1075	LL1095	LL1076
Customer ID		LL1sw-320-1094-SW	LL1sw-318-1072-SW	LL1sw-318-1092-SW	LL1sw-321-1075-SW	LL1sw-321-1095-SW	LL1sw-322-1076-SW
Date		11/06/2000	09/15/2000	11/06/2000	09/14/2000	11/06/2000	09/13/2000
Filtered		Total	Total	Total	Total	Total	Total
Field Type		Grab	Grab	Grab	Grab	Grab	Grab
Analyte	Units						
Cyanide	µg/L	10 U	10 U	10 U	10 U	10 U	10 U
Aluminum	µg/L	130 U	110 U	400 =	77 U	160 U	91 U
Antimony	µg/L	5 U	5 U	5 U	5 U	5 U	5 U
Arsenic	µg/L	5 U	4.8 J *	6 = *	4.4 J *	9.3 = *	11 = *
Barium	µg/L	22 J	32 J	58 J *	57 J *	52 J *	40 J
Beryllium	µg/L	4 U	4 U	4 U	4 U	4 U	4 U
Cadmium	µg/L	5 U	5 U	5 U	5 U	5 U	5 U
Calcium	µg/L	45,200 = *	24,200 =	28,700 =	90,900 = *	71,400 = *	70,900 = *
Chromium	µg/L	10 U	10 U	2.4 U	10 U	1.8 U	10 U
Cobalt	µg/L	4.6 J *	50 U	2.6 J *	50 U	50 U	50 U
Copper	µg/L	25 U	25 U	25 U	25 U	25 U	25 U
Iron	µg/L	2,300 =	4,900 = *	4,900 = *	530 =	940 =	1,300 =
Lead	µg/L	3 U	3 U	2.5 J *	3 U	3 U	3 U
Magnesium	µg/L	18,400 = *	5,300 =	7,000 =	21,200 = *	17,000 = *	16,900 = *
Manganese	µg/L	1,100 = *	780 = *	3,300 = *	500 = *	890 = *	580 = *
Mercury	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	µg/L	11 U	40 U	5.1 U	40 U	3.8 U	40 U
Potassium	µg/L	1,900 U	2,600 U	5,000 J *	2,800 J	3,300 J *	2,600 J
Selenium	µg/L	5 U	5 U	5 U	5 U	5 U	5 U
Silver	µg/L	10 U	10 U	10 U	10 U	10 U	10 U
Sodium	µg/L	3,200 J	4,200 U	4,400 J	4,100 J	4,500 J	6,700 =
Thallium	µg/L	2 U	2 UJ	2 U	2 U	2 U	2 U
Vanadium	µg/L	50 U	50 U	1.1 J *	50 U	50 U	50 U
Zinc	µg/L	70 = *	20 U	20 U	20 U	17 J	20 U

Table 4-43. Results for Surface Water Samples – Inorganic Constituents (continued)

Location		Off-AOC	Off-AOC	Off-AOC	Off-AOC	Sewer Lines	Sewer Lines
Station		LL1-322	LL1-323	LL1-323	LL1-323	LL1-301	LL1-309
Sample ID		LL1096	LL1077	LL1097	LL1142	LL1069	LL1064
Customer ID		LL1sw-322-1096-SW	LL1sw-323-1077-SW	LL1sw-323-1097-SW	LL1sw-323-1142-SW	LL1sw-301-1069-SW	LL1sw-309-1064-SW
Date		11/06/2000	09/13/2000	11/06/2000	11/06/2000	09/25/2000	09/26/2000
Filtered		Total	Total	Total	Total	Total	Total
Field Type		Grab	Grab	Grab	Field Duplicate	Grab	Grab
Analyte	Units						
Cyanide	µg/L	10 U	10 U	10 U	10 U	10 U	10 U
Aluminum	µg/L	87 U	110 U	75 U	85 U	1,800 J	1,700 J
Antimony	µg/L	5 U	5 U	5 U	5 U	3.8 J *	5 U
Arsenic	µg/L	11 = *	9.5 = *	5.1 = *	6.4 = *	5 U	5 U
Barium	µg/L	41 J	42 J	37 J	35 J	56 J *	81 J *
Beryllium	µg/L	4 U	4 U	4 U	4 U	4 U	4 U
Cadmium	µg/L	5 U	5 U	5 U	5 U	5 U	5 U
Calcium	µg/L	65,600 = *	67,300 = *	64,400 = *	63,300 = *	47,000 = *	96,200 = *
Chromium	µg/L	10 U	10 U	10 U	2.9 U	1.9 J *	2.8 J *
Cobalt	µg/L	50 U	50 U	50 U	50 U	2.3 J *	50 U
Copper	µg/L	25 U	25 U	25 U	25 U	15 J *	25 U
Iron	µg/L	1,700 =	780 =	640 =	1,800 =	16,100 = *	1,800 =
Lead	µg/L	3 U	3 U	3 U	3 U	9 = *	12 = *
Magnesium	µg/L	15,800 = *	17,200 = *	16,500 = *	16,300 = *	3,500 J	5,400 =
Manganese	µg/L	820 = *	560 = *	370 =	370 =	790 = *	120 =
Mercury	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	µg/L	40 U	40 U	40 U	2.9 U	8.6 J *	2.5 J *
Potassium	µg/L	3,500 J *	2,200 J	3,000 J	3,000 J	5,200 = *	4,200 J *
Selenium	µg/L	5 U	5 U	5 U	5 U	5 U	6.5 = *
Silver	µg/L	10 U	10 U	10 U	10 U	10 U	10 U
Sodium	µg/L	6,400 J	6,300 =	6,200 J	6,100 J	3,700 J	4,500 J
Thallium	µg/L	2 U	2 U	2 U	2 U	2 J	2 U
Vanadium	µg/L	50 U	50 U	50 U	50 U	5 J *	4.1 J *
Zinc	µg/L	20 U	20 U	20 U	20 U	57 = *	24 =

"=" = detected.
J = estimated.
U = not detected.
UJ = not detected, detection limit estimated.
R = rejected.
Blank fields indicate no analysis for a particular constituent was conducted.

Table 4-44. Results for Surface Water Samples – Propellants and Explosive Constituents

Location		Outlet C and Charlie's Pond	Outlets D, E, and F and Criggy's Pond	Outlets D, E, and F and Criggy's Pond	Off-AOC	Off-AOC
Station		LL1-059	LL1-053	LL1-053	LL1-319	LL1-319
Sample ID		LL1070	LL1071	LL1140	LL1073	LL1093
Customer ID		LL1sw-059-1070-SW	LL1sw-053-1071-SW	LL1sw-053-1140-SW	LL1sw-319-1073-SW	LL1sw-319-1093-SW
Date		09/15/2000	09/18/2000	09/18/2000	09/14/2000	11/06/2000
Filtered		Total	Total	Total	Total	Total
Field Type		Grab	Grab	Field Duplicate	Grab	Grab
Analyte	Units					
1,3,5-Trinitrobenzene	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,3-Dinitrobenzene	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2,4,6-Trinitrotoluene	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.11 J
2,4-Dinitrotoluene	µg/L	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
2,6-Dinitrotoluene	µg/L	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
2-Amino-4,6-dinitrotoluene	µg/L	0.2 U	0.2 U	0.2 U	0.22 =	0.22 =
2-Nitrotoluene	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
3-Nitrotoluene	µg/L	0.17 J	0.2 U	0.2 U	0.14 J	0.2 U
4-Amino-2,6-dinitrotoluene	µg/L	0.2 U	0.2 U	0.2 U	0.2 =	0.2 =
4-Nitrotoluene	µg/L	0.2 U	0.2 U	0.2 U	0.11 J	0.2 U
HMX	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Nitrobenzene	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nitrocellulose	µg/L	500 UJ	500 U	500 U	500 UJ	500 U
Nitroglycerin	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Nitroguanidine	µg/L	20 U	20 U	20 U	20 U	20 UJ
RDX	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.16 J
Tetryl	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.13 J

Table 4-44. Results for Surface Water Samples – Propellants and Explosive Constituents (continued)

Location Station Sample ID Customer ID Date Filtered Field Type Analyte	Units	Off-AOC LL1-320 LL1074 LL1sw-320-1074-SW 09/14/2000 Total Grab	Off-AOC LL1-320 LL1094 LL1sw-320-1094-SW 11/06/2000 Total Grab	Off-AOC LL1-318 LL1072 LL1sw-318-1072-SW 09/15/2000 Total Grab	Off-AOC LL1-318 LL1092 LL1sw-318-1092-SW 11/06/2000 Total Grab	Off-AOC LL1-321 LL1075 LL1sw-321-1075-SW 09/14/2000 Total Grab
1,3,5-Trinitrobenzene	µg/L	0.2 U	0.2 U	0.31 U	0.2 U	0.2 U
1,3-Dinitrobenzene	µg/L	0.2 U	0.2 U	0.07 J	0.2 U	0.2 U
2,4,6-Trinitrotoluene	µg/L	0.2 U	0.068 J	0.31 U	0.2 U	0.2 U
2,4-Dinitrotoluene	µg/L	0.13 U	0.27 =	0.2 U	0.1 J	0.13 U
2,6-Dinitrotoluene	µg/L	0.13 U	0.11 J	0.2 U	0.13 U	0.13 U
2-Amino-4,6-dinitrotoluene	µg/L	0.2 U	0.2 U	0.31 U	0.2 U	0.2 U
2-Nitrotoluene	µg/L	0.2 U	0.21 =	0.31 U	0.2 U	0.2 U
3-Nitrotoluene	µg/L	0.2 U	0.2 U	0.31 U	0.2 U	0.2 U
4-Amino-2,6-dinitrotoluene	µg/L	0.2 U	0.2 U	0.31 U	0.1 J	0.2 U
4-Nitrotoluene	µg/L	0.2 U	0.27 =	0.31 U	0.2 U	0.2 U
HMX	µg/L	0.5 U	0.5 U	0.78 U	0.5 U	0.5 U
Nitrobenzene	µg/L	0.2 U	0.2 U	0.31 U	0.2 U	0.2 U
Nitrocellulose	µg/L	500 UJ	500 U	500 UJ	500 U	500 UJ
Nitroglycerin	µg/L	2.5 U	2.5 U	3.9 U	2.5 U	2.5 U
Nitroguanidine	µg/L	20 U	20 UJ	20 U	20 UJ	20 U
RDX	µg/L	0.5 U	0.5 U	0.78 U	0.5 U	0.5 U
Tetryl	µg/L	0.2 U	0.2 U	0.31 U	0.2 U	0.2 U

Table 4-44. Results for Surface Water Samples – Propellants and Explosive Constituents (continued)

Location Station Sample ID Customer ID Date Filtered Field Type Analyte	Units	Off-AOC LL1-321 LL1095 LL1sw-321-1095-SW 11/06/2000 Total Grab	Off-AOC LL1-322 LL1076 LL1sw-322-1076-SW 09/13/2000 Total Grab	Off-AOC LL1-322 LL1096 LL1sw-322-1096-SW 11/06/2000 Total Grab	Off-AOC LL1-323 LL1077 LL1sw-323-1077-SW 09/13/2000 Total Grab	Off-AOC LL1-323 LL1097 LL1sw-323-1097-SW 11/06/2000 Total Grab
1,3,5-Trinitrobenzene	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,3-Dinitrobenzene	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2,4,6-Trinitrotoluene	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2,4-Dinitrotoluene	µg/L	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
2,6-Dinitrotoluene	µg/L	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
2-Amino-4,6-dinitrotoluene	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2-Nitrotoluene	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
3-Nitrotoluene	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
4-Amino-2,6-dinitrotoluene	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
4-Nitrotoluene	µg/L	0.2 U	0.1 J	0.2 U	0.2 U	0.2 U
HMX	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Nitrobenzene	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nitrocellulose	µg/L	500 U	500 UJ	500 U	500 UJ	500 U
Nitroglycerin	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Nitroguanidine	µg/L	20 UJ	20 U	20 UJ	20 U	20 UJ
RDX	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetryl	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U

Table 4-44. Results for Surface Water Samples – Propellants and Explosive Constituents (continued)

Location Station Sample ID Customer ID Date Filtered Field Type Analyte	Units	Off-AOC LL1-323 LL1142 LL1sw-323-1142-SW 11/06/2000 Total Field Duplicate	Sewer Lines LL1-301 LL1069 LL1sw-301-1069-SW 09/25/2000 Total Grab	Sewer Lines LL1-309 LL1064 LL1sw-309-1064-SW 09/26/2000 Total Grab
1,3,5-Trinitrobenzene	µg/L	0.2 U	0.2 U	2 U
1,3-Dinitrobenzene	µg/L	0.2 U	0.2 U	2 U
2,4,6-Trinitrotoluene	µg/L	0.049 J	0.2 U	79 =
2,4-Dinitrotoluene	µg/L	0.13 U	0.13 U	1.3 U
2,6-Dinitrotoluene	µg/L	0.13 U	0.13 U	1.3 U
2-Amino-4,6-dinitrotoluene	µg/L	0.2 U	0.2 U	26 =
2-Nitrotoluene	µg/L	0.2 U	0.2 U	2 U
3-Nitrotoluene	µg/L	0.2 U	0.2 U	2 U
4-Amino-2,6-dinitrotoluene	µg/L	0.2 U	0.2 U	46 =
4-Nitrotoluene	µg/L	0.2 U	0.2 U	2 U
HMX	µg/L	0.5 U	0.5 U	0.9 J
Nitrobenzene	µg/L	0.2 U	0.2 U	2 U
Nitrocellulose	µg/L	500 U	500 U	500 U
Nitroglycerin	µg/L	2.5 U	2.5 U	25 U
Nitroguanidine	µg/L	20 UJ	20 UJ	20 U
RDX	µg/L	0.5 U	0.5 U	7.7 =
Tetryl	µg/L	0.2 U	0.2 U	2 U

"=" = detected.
J = estimated.
U = not detected.
UJ = not detected, detection limit estimated.
R = rejected.
Blank fields indicate no analysis for a particular constituent was conducted.

Table 4-45. Results for Surface Water Samples – Pesticide/PCB Constituents

Location		Outlets D, E, and F and Criggy's Pond	Outlets D, E, and F and Criggy's Pond	Off-AOC	Off-AOC	Off-AOC
Station		LL1-053	LL1-053	LL1-323	LL1-323	LL1-323
Sample ID		LL1071	LL1140	LL1077	LL1097	LL1142
Customer ID		LL1sw-053-1071-SW	LL1sw-053-1140-SW	LL1sw-323-1077-SW	LL1sw-323-1097-SW	LL1sw-323-1142-SW
Date		09/18/2000	09/18/2000	09/13/2000	11/06/2000	11/06/2000
Filtered		Total	Total	Total	Total	Total
Field Type		Grab	Field Duplicate	Grab	Grab	Field Duplicate
Analyte	Units					
4,4'-DDD	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
4,4'-DDE	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
4,4'-DDT	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Aldrin	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Dieldrin	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Endosulfan I	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Endosulfan II	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Endosulfan sulfate	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Endrin	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Endrin aldehyde	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Endrin ketone	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Heptachlor	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Heptachlor epoxide	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Lindane	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Methoxychlor	µg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
PCB-1016	µg/L	1 U	1 U	1 U	1 U	1 U
PCB-1221	µg/L	1 U	1 U	1 U	1 U	1 U
PCB-1232	µg/L	1 U	1 U	1 U	1 U	1 U
PCB-1242	µg/L	1 U	1 U	1 U	1 U	1 U
PCB-1248	µg/L	1 U	1 U	1 U	1 U	1 U
PCB-1254	µg/L	1 U	1 U	1 U	1 U	1 U
PCB-1260	µg/L	1 U	1 U	1 U	1 U	1 U
Toxaphene	µg/L	2 U	2 U	2 U	2 U	2 U
alpha-BHC	µg/L	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U
alpha-Chlordane	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
beta-BHC	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
delta-BHC	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
gamma-Chlordane	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U

Table 4-45. Results for Surface Water Samples – Pesticide/PCB Constituents (continued)

Location Station Sample ID Customer ID Date Filtered Field Type Analyte	Units	Sewer Lines LL1-301 LL1069 LL1sw-301-1069-SW 09/25/2000 Total Grab	Sewer Lines LL1-309 LL1064 LL1sw-309-1064-SW 09/26/2000 Total Grab
4,4'-DDD	µg/L	0.05 UJ	0.05 U
4,4'-DDE	µg/L	0.05 U	0.05 U
4,4'-DDT	µg/L	0.05 UJ	0.05 U
Aldrin	µg/L	0.05 UJ	0.05 U
Dieldrin	µg/L	0.05 UJ	0.05 U
Endosulfan I	µg/L	0.05 U	0.05 U
Endosulfan II	µg/L	0.05 U	0.05 U
Endosulfan sulfate	µg/L	0.05 UJ	0.05 U
Endrin	µg/L	0.05 UJ	0.05 U
Endrin aldehyde	µg/L	0.05 UJ	0.05 U
Endrin ketone	µg/L	0.05 UJ	0.05 U
Heptachlor	µg/L	0.05 UJ	0.05 U
Heptachlor epoxide	µg/L	0.05 UJ	0.05 U
Lindane	µg/L	0.05 UJ	0.05 U
Methoxychlor	µg/L	0.1 UJ	0.1 U
PCB-1016	µg/L	1 U	1 U
PCB-1221	µg/L	1 U	1 U
PCB-1232	µg/L	1 U	1 U
PCB-1242	µg/L	1 U	1 U
PCB-1248	µg/L	1 U	1 U
PCB-1254	µg/L	1 U	1 U
PCB-1260	µg/L	1 U	1 U
Toxaphene	µg/L	2 UJ	2 U
alpha-BHC	µg/L	0.05 UJ	0.05 U
alpha-Chlordane	µg/L	0.05 UJ	0.05 U
beta-BHC	µg/L	0.05 UJ	0.05 U
delta-BHC	µg/L	0.05 UJ	0.05 U
gamma-Chlordane	µg/L	0.05 UJ	0.05 U

"=" = detected.
J = estimated.
U = not detected.
UJ = not detected, detection limit estimated.
R = rejected.
PCB = polychlorniated biphenyl.
Blank fields indicate no analysis for a particular constituent was conducted.

Table 4-46. Results for Surface Water Samples – Semivolatile Organic Constituents

Location		Outlets D, E, and F and Criggy's Pond	Outlets D, E, and F and Criggy's Pond	Off-AOC	Off-AOC
Station		LL1-053	LL1-053	LL1-323	LL1-323
Sample ID		LL1071	LL1140	LL1077	LL1097
Customer ID		LL1sw-053-1071-SW	LL1sw-053-1140-SW	LL1sw-323-1077-SW	LL1sw-323-1097-SW
Date		09/18/2000	09/18/2000	09/13/2000	11/06/2000
Filtered		Total	Total	Total	Total
Field Type		Grab	Field Duplicate	Grab	Grab
Analyte	Units				
1,2,4-Trichlorobenzene	µg/L	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene	µg/L	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	µg/L	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene	µg/L	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	µg/L	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol	µg/L	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	µg/L	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	µg/L	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	µg/L	25 U	25 U	25 U	25 U
2,4-Dinitrotoluene	µg/L	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	µg/L	10 U	10 U	10 U	10 U
2-Chloronaphthalene	µg/L	10 U	10 U	10 U	10 U
2-Chlorophenol	µg/L	10 U	10 U	10 U	10 U
2-Methyl-4,6-dinitrophenol	µg/L	25 U	25 U	25 U	25 U
2-Methylnaphthalene	µg/L	10 U	10 U	10 U	10 U
2-Methylphenol	µg/L	10 U	10 U	10 U	10 U
2-Nitrobenzenamine	µg/L	25 U	25 U	25 U	25 U
2-Nitrophenol	µg/L	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine	µg/L	10 R	10 R	10 U	10 R
3-Nitrobenzenamine	µg/L	25 UJ	25 UJ	25 UJ	25 U
4-Bromophenyl phenyl ether	µg/L	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol	µg/L	10 U	10 U	10 U	10 U
4-Chlorobenzenamine	µg/L	10 U	10 U	10 R	10 U
4-Chlorophenyl phenyl ether	µg/L	10 U	10 U	10 U	10 U
4-Methylphenol	µg/L	10 U	10 U	10 U	10 U
4-Nitrobenzenamine	µg/L	25 U	25 U	25 U	25 U
4-Nitrophenol	µg/L	25 U	25 U	25 U	25 U

Table 4-46. Results for Surface Water Samples – Semivolatile Organic Constituents

Location		Outlets D, E, and F and Criggy's Pond	Outlets D, E, and F and Criggy's Pond	Off-AOC	Off-AOC
Station		LL1-053	LL1-053	LL1-323	LL1-323
Sample ID		LL1071	LL1140	LL1077	LL1097
Customer ID		LL1sw-053-1071-SW	LL1sw-053-1140-SW	LL1sw-323-1077-SW	LL1sw-323-1097-SW
Date		09/18/2000	09/18/2000	09/13/2000	11/06/2000
Filtered		Total	Total	Total	Total
Field Type		Grab	Field Duplicate	Grab	Grab
Analyte	Units				
Acenaphthene	µg/L	10 U	10 U	10 U	10 U
Acenaphthylene	µg/L	10 U	10 U	10 U	10 U
Anthracene	µg/L	10 U	10 U	10 U	10 U
Benz(a)anthracene	µg/L	10 U	10 U	10 U	10 U
Benzo(a)pyrene	µg/L	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	10 U	10 U	10 U	10 U
Benzo(ghi)perylene	µg/L	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	10 U	10 U	10 U	10 U
Bis(2-chloroethoxy)methane	µg/L	10 U	10 U	10 U	10 U
Bis(2-chloroethyl) ether	µg/L	10 U	10 U	10 U	10 U
Bis(2-chloroisopropyl) ether	µg/L	10 U	10 U	10 U	10 U
Bis(2-ethylhexyl)phthalate	µg/L	10 U	10 U	10 U	12 =
Butyl benzyl phthalate	µg/L	10 U	10 U	10 U	10 U
Carbazole	µg/L	10 U	10 U	10 U	10 U
Chrysene	µg/L	10 U	10 U	10 U	10 U
Di-n-butyl phthalate	µg/L	10 U	10 U	10 U	10 U
Di-n-octylphthalate	µg/L	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	10 U	10 U	10 U	10 U
Dibenzofuran	µg/L	10 U	10 U	10 U	10 U
Diethyl phthalate	µg/L	10 U	10 U	10 U	10 U
Dimethyl phthalate	µg/L	10 U	10 U	10 U	10 U
Fluoranthene	µg/L	10 U	10 U	10 U	10 U
Fluorene	µg/L	10 U	10 U	10 U	10 U
Hexachlorobenzene	µg/L	10 U	10 U	10 U	10 U
Hexachlorobutadiene	µg/L	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	µg/L	10 R	10 R	10 U	10 R
Hexachloroethane	µg/L	10 U	10 U	10 U	10 U

Table 4-46. Results for Surface Water Samples – Semivolatile Organic Constituents

Location		Outlets D, E, and F and Criggy's Pond	Outlets D, E, and F and Criggy's Pond	Off-AOC	Off-AOC
Station		LL1-053	LL1-053	LL1-323	LL1-323
Sample ID		LL1071	LL1140	LL1077	LL1097
Customer ID		LL1sw-053-1071-SW	LL1sw-053-1140-SW	LL1sw-323-1077-SW	LL1sw-323-1097-SW
Date		09/18/2000	09/18/2000	09/13/2000	11/06/2000
Filtered		Total	Total	Total	Total
Field Type		Grab	Field Duplicate	Grab	Grab
Analyte	Units				
Indeno(1,2,3-cd)pyrene	µg/L	10 U	10 U	10 U	10 U
Isophorone	µg/L	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	µg/L	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine	µg/L	10 UJ	10 UJ	10 U	10 U
Naphthalene	µg/L	10 U	10 U	10 U	10 U
Nitrobenzene	µg/L	10 U	10 U	10 U	10 U
Pentachlorophenol	µg/L	25 U	25 U	25 U	25 U
Phenanthrene	µg/L	10 U	10 U	10 U	10 U
Phenol	µg/L	10 U	10 U	10 U	10 U
Pyrene	µg/L	10 U	10 U	10 U	10 U

Table 4-46. Results for Surface Water Samples – Semivolatile Organic Constituents (continued)

Location Station Sample ID Customer ID Date Filtered Field Type Analyte	Units	Off-AOC LL1-323 LL1142 LL1sw-323-1142-SW 11/06/2000 Total Field Duplicate	Sewer Lines LL1-301 LL1069 LL1sw-301-1069-SW 09/25/2000 Total Grab	Sewer Lines LL1-309 LL1064 LL1sw-309-1064-SW 09/26/2000 Total Grab
1,2,4-Trichlorobenzene	µg/L	10 U	10 U	10 U
1,2-Dichlorobenzene	µg/L	10 U	10 U	10 U
1,3-Dichlorobenzene	µg/L	10 U	10 U	10 U
1,4-Dichlorobenzene	µg/L	10 U	10 U	10 U
2,4,5-Trichlorophenol	µg/L	10 U	10 U	10 U
2,4,6-Trichlorophenol	µg/L	10 U	10 U	10 U
2,4-Dichlorophenol	µg/L	10 U	10 U	10 U
2,4-Dimethylphenol	µg/L	10 U	10 U	10 U
2,4-Dinitrophenol	µg/L	25 U	25 U	25 U
2,4-Dinitrotoluene	µg/L	10 U	10 U	10 U
2,6-Dinitrotoluene	µg/L	10 U	10 U	10 U
2-Chloronaphthalene	µg/L	10 U	10 UJ	10 U
2-Chlorophenol	µg/L	10 U	10 U	10 U
2-Methyl-4,6-dinitrophenol	µg/L	25 U	25 U	25 U
2-Methylnaphthalene	µg/L	10 U	10 U	10 U
2-Methylphenol	µg/L	10 U	10 U	10 U
2-Nitrobenzenamine	µg/L	25 U	25 U	25 U
2-Nitrophenol	µg/L	10 U	10 UJ	10 U
3,3'-Dichlorobenzidine	µg/L	10 R	10 U	10 U
3-Nitrobenzenamine	µg/L	25 U	25 U	25 U
4-Bromophenyl phenyl ether	µg/L	10 U	10 U	10 U
4-Chloro-3-methylphenol	µg/L	10 U	10 U	10 U
4-Chlorobenzenamine	µg/L	10 U	10 U	10 U
4-Chlorophenyl phenyl ether	µg/L	10 U	10 U	10 U
4-Methylphenol	µg/L	10 U	10 U	10 U
4-Nitrobenzenamine	µg/L	25 U	25 U	25 U
4-Nitrophenol	µg/L	25 U	25 U	25 U
Acenaphthene	µg/L	10 U	10 U	10 U

Table 4-46. Results for Surface Water Samples – Semivolatile Organic Constituents (continued)

Location		Off-AOC	Sewer Lines	Sewer Lines
Station		LL1-323	LL1-301	LL1-309
Sample ID		LL1142	LL1069	LL1064
Customer ID		LL1sw-323-1142-SW	LL1sw-301-1069-SW	LL1sw-309-1064-SW
Date		11/06/2000	09/25/2000	09/26/2000
Filtered		Total	Total	Total
Field Type		Field Duplicate	Grab	Grab
Analyte	Units			
Acenaphthylene	µg/L	10 U	10 U	10 U
Anthracene	µg/L	10 U	10 UJ	10 U
Benz(a)anthracene	µg/L	10 U	10 U	10 U
Benzo(a)pyrene	µg/L	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	10 U	10 U	10 U
Benzo(ghi)perylene	µg/L	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	10 U	10 U	10 U
Bis(2-chloroethoxy)methane	µg/L	10 U	10 U	10 U
Bis(2-chloroethyl) ether	µg/L	10 U	3.2 J	10 U
Bis(2-chloroisopropyl) ether	µg/L	10 U	10 U	10 U
Bis(2-ethylhexyl)phthalate	µg/L	10 U	10 U	10 U
Butyl benzyl phthalate	µg/L	10 U	1.1 J	10 U
Carbazole	µg/L	10 U	10 U	10 U
Chrysene	µg/L	10 U	10 U	10 U
Di-n-butyl phthalate	µg/L	10 U	10 U	10 U
Di-n-octylphthalate	µg/L	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	10 U	10 U	10 U
Dibenzofuran	µg/L	10 U	10 U	10 U
Diethyl phthalate	µg/L	10 U	1.9 J	10 U
Dimethyl phthalate	µg/L	10 U	10 U	10 U
Fluoranthene	µg/L	10 U	10 U	10 U
Fluorene	µg/L	10 U	10 U	10 U
Hexachlorobenzene	µg/L	10 U	10 R	10 R
Hexachlorobutadiene	µg/L	10 U	10 U	10 U
Hexachlorocyclopentadiene	µg/L	10 R	10 U	10 U
Hexachloroethane	µg/L	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	µg/L	10 U	10 U	10 U
Isophorone	µg/L	10 U	10 U	10 U

Table 4-46. Results for Surface Water Samples – Semivolatile Organic Constituents (continued)

Location Station Sample ID Customer ID Date Filtered Field Type Analyte	Units	Off-AOC LL1-323 LL1142 LL1sw-323-1142-SW 11/06/2000 Total Field Duplicate	Sewer Lines LL1-301 LL1069 LL1sw-301-1069-SW 09/25/2000 Total Grab	Sewer Lines LL1-309 LL1064 LL1sw-309-1064-SW 09/26/2000 Total Grab
N-Nitroso-di-n-propylamine	µg/L	10 U	10 UJ	10 U
N-Nitrosodiphenylamine	µg/L	10 U	10 U	10 U
Naphthalene	µg/L	10 U	25 U	25 U
Nitrobenzene	µg/L	10 U	10 U	10 U
Pentachlorophenol	µg/L	25 U	10 U	10 U
Phenanthrene	µg/L	10 U	1.4 J	10 U
Phenol	µg/L	10 U	10 U	10 U
Pyrene	µg/L	10 U	10 U	10 U

"=" = detected.
J = estimated.
U = not detected.
UJ = not detected, detection limit estimated.
R = rejected.
Blank fields indicate no analysis for a particular constituent was conducted.

Table 4-47. Results for Surface Water Samples – Volatile Organic Constituents

Location		Outlets D, E, and F and Criggy's Pond	Outlets D, E, and F and Criggy's Pond	Off-AOC	Off-AOC	Off-AOC
Station		LL1-053	LL1-053	LL1-323	LL1-323	LL1-323
Sample ID		LL1071	LL1140	LL1077	LL1097	LL1142
Customer ID		LL1sw-053-1071-SW	LL1sw-053-1140-SW	LL1sw-323-1077-SW	LL1sw-323-1097-SW	LL1sw-323-1142-SW
Date		09/18/2000	09/18/2000	09/13/2000	11/06/2000	11/06/2000
Filtered		Total	Total	Total	Total	Total
Field Type		Grab	Field Duplicate	Grab	Grab	Field Duplicate
Analyte	Units					
1,1,1-Trichloroethane	µg/L	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	µg/L	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	µg/L	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	µg/L	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	µg/L	5 U	5 U	5 U	5 U	5 U
1,2-Dibromoethane	µg/L	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	µg/L	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethene	µg/L	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	µg/L	5 U	5 U	5 U	5 U	5 U
2-Butanone	µg/L	10 U	10 U	10 U	10 U	10 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone	µg/L	10 U	10 U	10 U	10 U	10 U
Acetone	µg/L	5 U	5 UJ	10 U	10 U	10 U
Benzene	µg/L	5 U	5 U	5 U	5 U	5 U
Bromochloromethane	µg/L	5 U	5 U	5 U	5 U	5 U
Bromodichloromethane	µg/L	5 U	5 U	5 U	5 U	5 U
Bromoform	µg/L	5 U	5 U	5 U	5 U	5 U
Bromomethane	µg/L	10 U	10 U	10 U	10 U	10 U
Carbon disulfide	µg/L	5 U	5 U	5 U	5 UJ	5 UJ
Carbon tetrachloride	µg/L	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	µg/L	5 U	5 U	5 U	5 U	5 U
Chloroethane	µg/L	10 U	10 U	10 U	10 UJ	10 UJ
Chloroform	µg/L	5 U	5 U	5 U	5 U	5 U
Chloromethane	µg/L	10 U	10 U	10 U	10 U	10 U
Dibromochloromethane	µg/L	5 U	5 U	5 U	5 U	5 U
Dimethylbenzene	µg/L	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	µg/L	5 U	5 U	5 U	5 U	5 U

Table 4-47. Results for Surface Water Samples – Volatile Organic Constituents (continued)

Location		Outlets D, E, and F and Criggy's Pond	Outlets D, E, and F and Criggy's Pond	Off-AOC	Off-AOC	Off-AOC
Station		LL1-053	LL1-053	LL1-323	LL1-323	LL1-323
Sample ID		LL1071	LL1140	LL1077	LL1097	LL1142
Customer ID		LL1sw-053-1071-SW	LL1sw-053-1140-SW	LL1sw-323-1077-SW	LL1sw-323-1097-SW	LL1sw-323-1142-SW
Date		09/18/2000	09/18/2000	09/13/2000	11/06/2000	11/06/2000
Filtered		Total	Total	Total	Total	Total
Field Type		Grab	Field Duplicate	Grab	Grab	Field Duplicate
Analyte	Units					
Methylene chloride	µg/L	5 U	5 U	5 U	5 U	5 U
Styrene	µg/L	5 U	5 U	5 U	5 U	5 U
Tetrachloroethene	µg/L	5 U	5 U	5 U	5 U	5 U
Toluene	µg/L	5 U	5 U	5 U	5 U	5 U
Trichloroethene	µg/L	5 U	5 U	5 U	5 U	5 U
Vinyl chloride	µg/L	10 U	10 U	10 U	10 U	10 U
cis-1,3-Dichloropropene	µg/L	5 U	5 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	µg/L	5 U	5 U	5 U	5 U	5 U

Table 4-47. Results for Surface Water Samples – Volatile Organic Constituents (continued)

Location Station Sample ID Customer ID Date Filtered Field Type Analyte	Units	Sewer Lines LL1-301 LL1069 LL1sw-301-1069-SW 09/25/2000 Total Grab	Sewer Lines LL1-309 LL1064 LL1sw-309-1064-SW 09/26/2000 Total Grab
1,1,1-Trichloroethane	µg/L	5 U	5 U
1,1,2,2-Tetrachloroethane	µg/L	5 U	5 U
1,1,2-Trichloroethane	µg/L	5 U	5 U
1,1-Dichloroethane	µg/L	5 U	5 U
1,1-Dichloroethene	µg/L	5 U	5 U
1,2-Dibromoethane	µg/L	5 U	5 U
1,2-Dichloroethane	µg/L	5 U	5 U
1,2-Dichloroethene	µg/L	5 U	5 U
1,2-Dichloropropane	µg/L	5 U	5 U
2-Butanone	µg/L	10 U	10 U
2-Hexanone	µg/L	10 U	10 U
4-Methyl-2-pentanone	µg/L	10 U	10 U
Acetone	µg/L	10 U	30 U
Benzene	µg/L	5 U	5 U
Bromochloromethane	µg/L	5 U	5 U
Bromodichloromethane	µg/L	5 U	5 U
Bromoform	µg/L	5 U	5 U
Bromomethane	µg/L	10 U	10 U
Carbon disulfide	µg/L	5 U	5 U
Carbon tetrachloride	µg/L	5 U	5 U
Chlorobenzene	µg/L	5 U	5 U
Chloroethane	µg/L	10 U	10 U
Chloroform	µg/L	5 U	5 U
Chloromethane	µg/L	10 U	10 U
Dibromochloromethane	µg/L	5 U	5 U
Dimethylbenzene	µg/L	5 U	5 U
Ethylbenzene	µg/L	5 U	5 U
Methylene chloride	µg/L	5 U	5 U

Table 4-47. Results for Surface Water Samples – Volatile Organic Constituents (continued)

Location		Sewer Lines	Sewer Lines
Station		LL1-301	LL1-309
Sample ID		LL1069	LL1064
Customer ID		LL1sw-301-1069-SW	LL1sw-309-1064-SW
Date		09/25/2000	09/26/2000
Filtered		Total	Total
Field Type		Grab	Grab
Analyte	Units		
Styrene	µg/L	5 U	5 U
Tetrachloroethene	µg/L	5 U	5 U
Toluene	µg/L	5 U	5 U
Trichloroethene	µg/L	5 U	5 U
Vinyl chloride	µg/L	10 U	10 U
cis-1,3-Dichloropropene	µg/L	5 U	5 U
trans-1,3-Dichloropropene	µg/L	5 U	5 U

"=" = detected.
J = estimated.
U = not detected.
UJ = not detected, detection limit estimated.
R = rejected.
Blank fields indicate no analysis for a particular constituent was conducted.

Table 4-48. Results for Groundwater Samples – Inorganic Constituents

Location		LL-1 Groundwater (All)	LL-1 Groundwater (All)	LL-1 Groundwater (All)	LL-1 Groundwater (All)	LL-1 Groundwater (All)
Group		Uncon. Unfiltered	Uncon. Filtered	Uncon. Filtered	Uncon. Unfiltered	Uncon. Filtered
Station		LL1mw-064	LL1mw-064	LL1mw-064	LL1mw-065	LL1mw-065
Sample ID		LL0692	LL0693	LL1081	LL0694	LL0695
Customer ID		LL1mw-064-0692-GW	LL1mw-064-0693-GF	LL1mw-064-1081-GW	LL1mw-065-0694-GW	LL1mw-065-0695-GF
Date		09/05/1999	09/05/1999	10/02/2000	09/05/1999	09/05/1999
Filtered		Total	Dissolved	Dissolved	Total	Dissolved
Field Type		Grab	Grab	Grab	Grab	Grab
Analyte	Units					
Aluminum	µg/L	450 J *	200 R	98 U	810 J *	200 R
Antimony	µg/L	5 U	5 U	5 U	5 U	5 U
Arsenic	µg/L	3.5 J	3.8 J	5 U	4.5 J	4.7 J
Barium	µg/L	56 J	49 J	54 J	75 J	61 J
Beryllium	µg/L	4 U	4 U	0.93 U	4 U	4 U
Cadmium	µg/L	5 U	5 U	5 U	5 U	5 U
Calcium	µg/L	62,800 =	59,000 =	60,400 =	81,200 =	77,600 =
Chromium	µg/L	10 U	10 U	10 U	10 U	10 U
Cobalt	µg/L	50 U	50 U	50 U	50 U	50 U
Copper	µg/L	4 U	7.7 U	25 U	25 U	25 U
Iron	µg/L	1,800 J *	670 J *	710 = *	1,300 J *	61 U
Lead	µg/L	3 U	3 U	3 U	3 U	3 U
Magnesium	µg/L	1,0100 =	9,400 =	9,500 =	18,600 =	17,600 =
Manganese	µg/L	170 =	140 =	140 =	340 =	310 =
Mercury	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	µg/L	40 U	40 U	40 U	40 U	40 U
Potassium	µg/L	820 J	690 J	920 U	1,300 J	1,000 J
Selenium	µg/L	5 U	5 U	5 U	6.4 = *	5 U
Silver	µg/L	10 U	10 U	10 U	10 U	10 U
Sodium	µg/L	5,000 =	4,900 J	5,500 =	10,000 =	9,900 =
Thallium	µg/L	2 U	2 U	2 U	2 U	2 U
Vanadium	µg/L	50 U	50 U	50 U	50 U	50 U
Zinc	µg/L	17 U	20 U	20 U	140 = *	110 U

Table 4-48. Results for Groundwater Samples – Inorganic Constituents (continued)

Location		LL-1 Groundwater (All)	LL-1 Groundwater (All)	LL-1 Groundwater (All)	LL-1 Groundwater (All)	LL-1 Groundwater (All)
Group		Uncon. Filtered	Uncon. Filtered	Bedrock Unfiltered	Bedrock Filtered	Bedrock Filtered
Station		LL1mw-065	LL1mw-065	LL1mw-067	LL1mw-067	LL1mw-067
Sample ID		LL1082	LL1145	LL0696	LL0697	LL1083
Customer ID		LL1mw-065-1082-GW	LL1mw-065-1145-GW	LL1mw-067-0696-GW	LL1mw-067-0697-GF	LL1mw-067-1083-GW
Date		10/02/2000	10/02/2000	09/05/1999	09/05/1999	10/04/2000
Filtered		Dissolved	Dissolved	Total	Dissolved	Dissolved
Field Type		Grab	Field Duplicate	Grab	Grab	Grab
Analyte	Units					
Aluminum	µg/L	100 U	97 U	780 J	97 J *	110 U
Antimony	µg/L	5 U	3.7 J *	5 U	5 U	5 U
Arsenic	µg/L	5 U	5 U	5 U	10 U	5 U
Barium	µg/L	62 J	61 J	34 J	29 J	17 J
Beryllium	µg/L	0.91 U	0.87 U	4 U	4 U	0.93 U
Cadmium	µg/L	5 U	5 U	5 U	5 U	5 U
Calcium	µg/L	77,100 =	78,400 =	53,000 = *	53,600 = *	37,500 =
Chromium	µg/L	10 U	10 U	10 U	10 U	10 U
Cobalt	µg/L	1.5 J *	1.5 J *	50 U	50 U	50 U
Copper	µg/L	25 U	25 U	4 U	25 U	25 U
Iron	µg/L	250 =	100 U	1,700 J	58 U	100 U
Lead	µg/L	3 U	3 U	4.7 =	3 U	3 U
Magnesium	µg/L	16,800 =	17,200 =	26,000 = *	25,800 = *	12,600 =
Manganese	µg/L	420 =	450 =	270 =	170 =	61 =
Mercury	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	µg/L	40 U	40 U	72 =	67 =	49 =
Potassium	µg/L	1,200 J	1,200 J	1,400 J	1,200 J	1,200 J
Selenium	µg/L	5 U	5 U	5 U	5 U	5 U
Silver	µg/L	10 U	10 U	10 U	10 U	10 U
Sodium	µg/L	10,000 =	10,200 =	4,300 J	4,100 J	2,400 J
Thallium	µg/L	2 U	2 U	2 U	2 U	2 U
Vanadium	µg/L	50 U	50 U	50 U	50 U	50 U
Zinc	µg/L	200 J *	250 J *	17 U	20 U	13 J

Table 4-48. Results for Groundwater Samples – Inorganic Constituents (continued)

Location		LL-1 Groundwater (All)	LL-1 Groundwater (All)	LL-1 Groundwater (All)	LL-1 Groundwater (All)	LL-1 Groundwater (All)
Group		Bedrock Unfiltered	Bedrock Filtered	Bedrock Filtered	Bedrock Unfiltered	Bedrock Filtered
Station		LL1mw-078	LL1mw-078	LL1mw-078	LL1mw-079	LL1mw-079
Sample ID		LL0698	LL0699	LL1084	LL0700	LL0701
Customer ID		LL1mw-078-0698-GW	LL1mw-078-0699-GF	LL1mw-078-1084-GW	LL1mw-079-0700-GW	LL1mw-079-0701-GF
Date		09/01/1999	09/01/1999	10/03/2000	09/02/1999	09/02/1999
Filtered		Total	Dissolved	Dissolved	Total	Dissolved
Field Type		Grab	Grab	Grab	Grab	Grab
Analyte	Units					
Aluminum	µg/L	1,100 =	110 J *	220 U	200 U	200 U
Antimony	µg/L	5 U	5 U	5 U	5 U	5 U
Arsenic	µg/L	5 U	10 U	5 U	5 U	10 U
Barium	µg/L	60 J	55 J	17 J	4.3 J	3.8 J
Beryllium	µg/L	4 U	4 U	0.95 U	4 U	4 U
Cadmium	µg/L	5 U	5 U	5 U	5 U	5 U
Calcium	µg/L	28,700 =	31,200 =	37,900 =	37,100 =	33,900 =
Chromium	µg/L	10 U	10 U	10 U	10 U	10 U
Cobalt	µg/L	110 = *	110 = *	1.6 J *	50 U	50 U
Copper	µg/L	4.3 U	25 U	25 U	5.8 J	25 U
Iron	µg/L	1,100 =	67 J	100 U	53 U	100 U
Lead	µg/L	3 U	3 U	3 U	3 U	3 U
Magnesium	µg/L	7,000 =	7,300 =	6,800 =	15,600 = *	14,500 =
Manganese	µg/L	640 =	610 =	120 =	550 =	510 =
Mercury	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	µg/L	27 J	25 J	4.9 J	25 J	23 J
Potassium	µg/L	5,100 J	4,800 J	4,000 J	2,800 J	2,700 J
Selenium	µg/L	5 U	5 U	5 U	5 U	5 U
Silver	µg/L	10 U	10 U	10 U	10 U	10 U
Sodium	µg/L	13,000 J	10,500 J	9,900 =	6,100 J	5,700 J
Thallium	µg/L	0.6 U	2 U	2 U	2 U	0.6 J *
Vanadium	µg/L	50 U	50 U	50 U	50 U	50 U
Zinc	µg/L	27 J	22 J	20 U	75 J	57 J *

Table 4-48. Results for Groundwater Samples – Inorganic Constituents (continued)

Location Group Station Sample ID Customer ID Date Filtered Field Type Analyte	Units	LL-1 Groundwater (All) Bedrock Filtered LL1mw-079 LL0714 LL1mw-079-0714-GW 09/02/1999 Dissolved Field Duplicate	LL-1 Groundwater (All) Bedrock Unfiltered LL1mw-079 LL0714 LL1mw-079-0714-GW 09/02/1999 Total Field Duplicate	LL-1 Groundwater (All) Bedrock Filtered LL1mw-079 LL1085 LL1mw-079-1085-GW 10/03/2000 Dissolved Grab	LL-1 Groundwater (All) Bedrock Unfiltered LL1mw-080 LL0702 LL1mw-080-0702-GW 09/06/1999 Total Grab	LL-1 Groundwater (All) Bedrock Filtered LL1mw-080 LL0703 LL1mw-080-0703-GF 09/06/1999 Dissolved Grab
Aluminum	µg/L	200 U	400 =	93 U	200 R	200 R
Antimony	µg/L	60 U	5 U	5 U	5 U	5 U
Arsenic	µg/L	10 U	5 U	5 U	5 U	10 U
Barium	µg/L	3.7 J	5.3 J	4.7 J	27 J	28 J
Beryllium	µg/L	4 U	4 U	0.94 U	4 U	4 U
Cadmium	µg/L	5 U	5 U	5 U	5 U	5 U
Calcium	µg/L	36,100 =	38,900 =	28,900 =	390,000 = *	399,000 = *
Chromium	µg/L	10 U	10 U	10 U	10 U	10 U
Cobalt	µg/L	50 U	50 U	4.8 J *	50 U	50 U
Copper	µg/L	25 U	25 U	25 U	25 U	25 U
Iron	µg/L	100 U	100 U	100 U	3,200 J	3,400 J *
Lead	µg/L	3 U	3 U	3 U	3 U	3 U
Magnesium	µg/L	15,200 = *	15,700 = *	12,700 =	21,100 = *	21,600 = *
Manganese	µg/L	550 =	550 =	1,300 =	4,700 = *	4,800 = *
Mercury	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	µg/L	25 J	23 J	48 =	17 J	20 J
Potassium	µg/L	2,700 J	2,800 J	2,600 J	8,800 = *	8,800 = *
Selenium	µg/L	5 U	5 U	5 U	5 U	5 U
Silver	µg/L	10 U	10 U	10 U	10 U	10 U
Sodium	µg/L	5,900 J	6,100 J	2,200 J	2,300 J	2,200 J
Thallium	µg/L	2 U	2 U	2 U	2 U	2 U
Vanadium	µg/L	50 U	50 U	50 U	50 U	50 U
Zinc	µg/L	70 J *	58 J	150 = *	58 U	29 U

Table 4-48. Results for Groundwater Samples – Inorganic Constituents (continued)

Location Group Station Sample ID Customer ID Date Filtered Field Type Analyte	Units	LL-1 Groundwater (All) Bedrock Filtered LL1mw-080 LL1086 LL1mw-080-1086-GW 10/04/2000 Dissolved Grab	LL-1 Groundwater (All) Bedrock Unfiltered LL1mw-081 LL0704 LL1mw-081-0704-GW 09/02/1999 Total Grab	LL-1 Groundwater (All) Bedrock Filtered LL1mw-081 LL0705 LL1mw-081-0705-GF 09/02/1999 Dissolved Grab	LL-1 Groundwater (All) Bedrock Filtered LL1mw-081 LL0715 LL1mw-081-0715-GW 09/02/1999 Dissolved Field Duplicate	LL-1 Groundwater (All) Bedrock Unfiltered LL1mw-081 LL0715 LL1mw-081-0715-GW 09/02/1999 Total Field Duplicate
Aluminum	µg/L	130 U	200 U	200 U	200 U	200 U
Antimony	µg/L	5 U	5 U	5 U	60 U	5 U
Arsenic	µg/L	5 U	5 U	10 U	10 U	5 U
Barium	µg/L	57 J	18 J	19 J	18 J	19 J
Beryllium	µg/L	1.1 U	4 U	4 U	4 U	4 U
Cadmium	µg/L	5 U	5 U	5 U	5 U	5 U
Calcium	µg/L	150,000 = *	43,300 =	45,900 =	44,300 =	46,500 =
Chromium	µg/L	10 U	10 U	10 U	10 U	10 U
Cobalt	µg/L	1.6 J *	50 U	50 U	50 U	50 U
Copper	µg/L	25 U	25 U	25 U	25 U	25 U
Iron	µg/L	100 U	1,600 =	1,400 =	1,400 =	1,600 =
Lead	µg/L	3 U	3 U	3 U	3 U	3 U
Magnesium	µg/L	8,700 =	13,400 =	13,900 =	13,500 =	14,300 = *
Manganese	µg/L	830 =	2,200 = *	2,400 = *	2,300 = *	2,400 = *
Mercury	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	µg/L	5.2 J	40 U	40 U	40 U	40 U
Potassium	µg/L	4,600 J	2,400 J	2,500 J	2,400 J	2,500 J
Selenium	µg/L	5 U	5 U	5 U	5 U	5 U
Silver	µg/L	10 U	10 U	10 U	10 U	10 U
Sodium	µg/L	3,700 J	2,600 J	2,800 J	2,500 J	2,800 J
Thallium	µg/L	2 U	2 U	2 U	2 U	2 U
Vanadium	µg/L	50 U	50 U	50 U	50 U	50 U
Zinc	µg/L	430 = *	130 J	150 J *	130 J *	160 J

Table 4-48. Results for Groundwater Samples – Inorganic Constituents (continued)

Location		LL-1 Groundwater (All)	LL-1 Groundwater (All)	LL-1 Groundwater (All)	LL-1 Groundwater (All)	LL-1 Groundwater (All)
Group		Bedrock Filtered	Bedrock Unfiltered	Bedrock Filtered	Bedrock Filtered	Bedrock Unfiltered
Station		LL1mw-081	LL1mw-082	LL1mw-082	LL1mw-082	LL1mw-083
Sample ID		LL1087	LL0706	LL0707	LL1088	LL0708
Customer ID		LL1mw-081-1087-GW	LL1mw-082-0706-GW	LL1mw-082-0707-GF	LL1mw-082-1088-GW	LL1mw-083-0708-GW
Date		10/03/2000	09/04/1999	09/04/1999	10/03/2000	09/01/1999
Filtered		Dissolved	Total	Dissolved	Dissolved	Total
Field Type		Grab	Grab	Grab	Grab	Grab
Analyte	Units					
Aluminum	µg/L	89 U	200 R	200 R	95 U	180 J
Antimony	µg/L	5 U	5 U	5 U	2.2 J *	5 U
Arsenic	µg/L	5 U	5 U	10 U	5 U	5.2 =
Barium	µg/L	20 J	19 J	20 J	13 J	60 J
Beryllium	µg/L	0.87 U	4 U	4 U	1 U	4 U
Cadmium	µg/L	5 U	5 U	5 U	5 U	5 U
Calcium	µg/L	53,900 = *	21,700 =	22,200 =	30,200 =	23,200 =
Chromium	µg/L	10 U	10 U	10 U	10 U	10 U
Cobalt	µg/L	4.8 J *	50 U	50 U	7.6 J *	270 = *
Copper	µg/L	25 U	25 U	25 U	25 U	25 U
Iron	µg/L	960 =	350 J	160 U	9,000 = *	350 =
Lead	µg/L	3 U	3 U	3 U	3 U	3 U
Magnesium	µg/L	13,600 =	10,800 =	11,200 =	12,700 =	8,900 =
Manganese	µg/L	2,200 = *	850 =	880 =	1,100 =	2,400 = *
Mercury	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	µg/L	9.3 J	16 J	16 J	16 J	140 = *
Potassium	µg/L	2,200 J	1,500 J	1,500 J	1,900 J	3,700 J
Selenium	µg/L	5 U	5 U	5 U	5 U	5 U
Silver	µg/L	10 U	10 U	10 U	10 U	10 U
Sodium	µg/L	2,300 J	980 J	980 J	2,900 J	38,100 J
Thallium	µg/L	2 U	2 U	2 U	2 U	0.6 U
Vanadium	µg/L	50 U	50 U	50 U	50 U	50 U
Zinc	µg/L	320 = *	28 U	43 U	290 = *	76 J

Table 4-48. Results for Groundwater Samples – Inorganic Constituents (continued)

Location		LL-1 Groundwater (All)	LL-1 Groundwater (All)	LL-1 Groundwater (All)	LL-1 Groundwater (All)	LL-1 Groundwater (All)
Group		Bedrock Filtered	Bedrock Filtered	Bedrock Unfiltered	Bedrock Filtered	Bedrock Filtered
Station		LL1mw-083	LL1mw-083	LL1mw-084	LL1mw-084	LL1mw-084
Sample ID		LL0709	LL1089	LL0710	LL0711	LL1090
Customer ID		LL1mw-083-0709-GF	LL1mw-083-1089-GW	LL1mw-084-0710-GW	LL1mw-084-0711-GF	LL1mw-084-1090-GW
Date		09/01/1999	10/03/2000	09/04/1999	09/04/1999	10/02/2000
Filtered		Dissolved	Dissolved	Total	Dissolved	Dissolved
Field Type		Grab	Grab	Grab	Grab	Grab
Analyte	Units					
Aluminum	µg/L	96 J *	1,100 = *	2,700 J	2,500 J *	1,700 = *
Antimony	µg/L	5 U	5 U	5 U	5 U	5 U
Arsenic	µg/L	4.4 J *	5 U	5 U	5.7 J *	5 U
Barium	µg/L	75 J	16 J	30 J	33 J	16 J
Beryllium	µg/L	4 U	1.2 U	0.74 U	0.78 U	4 U
Cadmium	µg/L	5 U	1.1 J *	5 U	5 U	3 J *
Calcium	µg/L	23,200 =	18,500 =	29,400 =	28,300 =	35,000 =
Chromium	µg/L	10 U	10 U	10 U	10 U	10 U
Cobalt	µg/L	260 = *	11 J *	58 = *	58 = *	22 J *
Copper	µg/L	25 U	25 U	23 U	22 U	18 J *
Iron	µg/L	280 =	100 U	2,900 J	2,900 J *	200 =
Lead	µg/L	3 U	3 U	3 U	3 U	3 U
Magnesium	µg/L	8,700 =	4,000 J	5,100 =	5,100 =	2,900 J
Manganese	µg/L	2,300 = *	540 =	600 =	590 =	250 =
Mercury	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	µg/L	130 = *	38 J	87 = *	87 = *	40 =
Potassium	µg/L	3,600 J	3,100 J	3,500 J	3,400 J	3,000 J
Selenium	µg/L	5 U	5 U	5 U	4.1 J *	5 U
Silver	µg/L	10 U	10 U	10 U	10 U	10 U
Sodium	µg/L	37,300 J	30,900 =	2,700 J	2,800 J	1,500 J
Thallium	µg/L	2 U	2 U	0.9 J *	2 U	2 U
Vanadium	µg/L	50 U	50 U	50 U	50 U	50 U
Zinc	µg/L	92 J *	44 =	190 =	210 = *	620 = *

Table 4-48. Results for Groundwater Samples – Inorganic Constituents (continued)

Location		LL-1 Groundwater (All)	LL-1 Groundwater (All)	LL-1 Groundwater (All)	LL-1 Groundwater (All)	LL-1 Groundwater (All)
Group		Bedrock Unfiltered	Bedrock Filtered	Bedrock Filtered	Bedrock Unfiltered	Bedrock Filtered
Station		LL1mw-085	LL1mw-085	LL1mw-085	LL2mw-059	LL2mw-059
Sample ID		LL0712	LL0713	LL1091	LL0686	LL0687
Customer ID		LL1mw-085-0712-GW	LL1mw-085-0713-GF	LL1mw-085-1091-GW	LL2mw-059-0686-GW	LL2mw-059-0687-GW
Date		09/03/1999	09/03/1999	10/04/2000	09/03/1999	09/03/1999
Filtered		Total	Dissolved	Dissolved	Total	Dissolved
Field Type		Grab	Grab	Grab	Grab	Grab
Analyte	Units					
Aluminum	µg/L	710 =	200 U	100 U	450 =	200 U
Antimony	µg/L	5 U	5 U	5 U	5 U	5 U
Arsenic	µg/L	41 = *	26 = *	13 = *	5 U	10 U
Barium	µg/L	31 J	26 J	25 J	12 J	9.4 J
Beryllium	µg/L	4 U	4 U	0.88 U	4 U	4 U
Cadmium	µg/L	5 U	5 U	5 U	5 U	5 U
Calcium	µg/L	89,100 = *	87,000 = *	93,800 = *	20,500 =	20,600 =
Chromium	µg/L	10 U	10 U	10 U	10 U	10 U
Cobalt	µg/L	27 J *	23 J *	4.9 J *	50 U	50 U
Copper	µg/L	25 U	25 U	25 U	25 U	25 U
Iron	µg/L	2,900 =	1,300 =	2,100 = *	470 =	100 U
Lead	µg/L	3 U	3 U	3 U	3 U	3 U
Magnesium	µg/L	24,900 = *	23,800 = *	23,300 = *	6,900 =	6,800 =
Manganese	µg/L	970 =	920 =	880 =	100 =	83 =
Mercury	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	µg/L	120 = *	120 = *	24 J	40 U	40 U
Potassium	µg/L	3,000 J	2,700 J	2,600 J	1,000 J	860 J
Selenium	µg/L	5 U	5 U	5 U	5 U	5 U
Silver	µg/L	10 U	10 U	10 U	10 U	10 U
Sodium	µg/L	1,600 J	1,600 J	1,800 J	6,200 J	6,200 J
Thallium	µg/L	2	2 U	2 U	2 U	2 U
Vanadium	µg/L	50 U	50 U	50 U	50 U	50 U
Zinc	µg/L	290 J *	180 J *	20 U	120 J	90 J *

Table 4-48. Results for Groundwater Samples – Inorganic Constituents (continued)

Location		LL-1 Groundwater (All)	LL-1 Groundwater (All)	LL-1 Groundwater (All)	LL-1 Groundwater (All)
Group		Bedrock Filtered	Bedrock Unfiltered	Bedrock Filtered	Bedrock Filtered
Station		LL2mw-059	LL2mw-060	LL2mw-060	LL2mw-060
Sample ID		LL1078	LL0688	LL0689	LL1079
Customer ID		LL2mw-059-1078-GW	LL2mw-060-0688-GW	LL2mw-060-0689-GW	LL2mw-060-1079-GW
Date		10/01/2000	09/06/1999	09/06/1999	10/01/2000
Filtered		Dissolved	Total	Dissolved	Dissolved
Field Type		Grab	Grab	Grab	Grab
Analyte	Units				
Aluminum	µg/L	200 U	200 R	360 J *	200 U
Antimony	µg/L	5 U	5 U	5 U	5 U
Arsenic	µg/L	5 U	5 U	10 U	5 U
Barium	µg/L	6.2 J	21 J	22 J	21 J
Beryllium	µg/L	4 U	4 U	4 U	4 U
Cadmium	µg/L	5 U	5 U	5 U	5 U
Calcium	µg/L	16,600 =	35,500 =	36,900 =	31,800 =
Chromium	µg/L	10 U	10 U	10 U	10 U
Cobalt	µg/L	50 U	50 U	50 U	50 U
Copper	µg/L	25 U	25 U	25 U	25 U
Iron	µg/L	100 U	100 U	100 U	100 =
Lead	µg/L	3 U	3 U	3 U	3 U
Magnesium	µg/L	5,900 =	9,700 =	9,600 =	8,000 =
Manganese	µg/L	67 =	33 =	12 J	48 =
Mercury	µg/L	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	µg/L	3.3 J	40 U	40 U	40 U
Potassium	µg/L	720 J	480 J	480 J	490 J
Selenium	µg/L	5 U	5 U	5 U	5 U
Silver	µg/L	10 U	10 U	10 U	10 U
Sodium	µg/L	5,900 =	2,700 J	2,800 J	2,400 =
Thallium	µg/L	2 U	2 U	2 U	2 U
Vanadium	µg/L	50 U	50 U	50 U	50 U
Zinc	µg/L	230 = *	17 U	16 U	710 = *

* = exceeds site-wide background criteria.
"=" = detected.
J = estimated.
U = not detected.
UJ = not detected, detection limit estimated.
R = rejected.
Blank fields indicate no analysis for a particular constituent was conducted.

Table 4-49. Results for Groundwater Samples – Cyanide

Location		LL-1 Groundwater (All)	LL-1 Groundwater (All)	LL-1 Groundwater (All)	LL-1 Groundwater (All)	LL-1 Groundwater (All)
Station		LL1mw-064	LL1mw-064	LL1mw-065	LL1mw-065	LL1mw-065
Sample ID		LL0692	LL1081	LL0694	LL1082	LL1145
Customer ID		LL1mw-064-0692-GW	LL1mw-064-1081-GW	LL1mw-065-0694-GW	LL1mw-065-1082-GW	LL1mw-065-1145-GW
Date		09/05/1999	10/02/2000	09/05/1999	10/02/2000	10/02/2000
Filtered		Total	Total	Total	Total	Total
Field Type		Grab	Grab	Grab	Grab	Field Duplicate
Analyte	Units					
Cyanide	µg/L	10 U	10 U	10 U	10 U	10 U

Location		LL-1 Groundwater (All)	LL-1 Groundwater (All)	LL-1 Groundwater (All)	LL-1 Groundwater (All)	LL-1 Groundwater (All)
Station		LL1mw-067	LL1mw-067	LL1mw-078	LL1mw-078	LL1mw-079
Sample ID		LL0696	LL1083	LL0698	LL1084	LL0700
Customer ID		LL1mw-067-0696-GW	LL1mw-067-1083-GW	LL1mw-078-0698-GW	LL1mw-078-1084-GW	LL1mw-079-0700-GW
Date		09/05/1999	10/04/2000	09/01/1999	10/03/2000	09/02/1999
Filtered		Total	Total	Total	Total	Total
Field Type		Grab	Grab	Grab	Grab	Grab
Analyte	Units					
Cyanide	µg/L	10 U	10 U	10 U	10 U	10 U

Location		LL-1 Groundwater (All)	LL-1 Groundwater (All)	LL-1 Groundwater (All)	LL-1 Groundwater (All)	LL-1 Groundwater (All)
Station		LL1mw-079	LL1mw-079	LL1mw-080	LL1mw-080	LL1mw-081
Sample ID		LL0714	LL1085	LL0702	LL1086	LL0704
Customer ID		LL1mw-079-0714-GW	LL1mw-079-1085-GW	LL1mw-080-0702-GW	LL1mw-080-1086-GW	LL1mw-081-0704-GW
Date		09/02/1999	10/03/2000	09/06/1999	10/04/2000	09/02/1999
Filtered		Total	Total	Total	Total	Total
Field Type		Field Duplicate	Grab	Grab	Grab	Grab
Analyte	Units					
Cyanide	µg/L	10 U	10 U	10 U	10 U	5.1 J *

Table 4-49. Results for Groundwater Samples – Cyanide (continued)

Location		LL-1 Groundwater (All)	LL-1 Groundwater (All)	LL-1 Groundwater (All)	LL-1 Groundwater (All)	LL-1 Groundwater (All)
Station		LL1mw-081	LL1mw-081	LL1mw-082	LL1mw-082	LL1mw-083
Sample ID		LL0715	LL1087	LL0706	LL1088	LL0708
Customer ID		LL1mw-081-0715-GW	LL1mw-081-1087-GW	LL1mw-082-0706-GW	LL1mw-082-1088-GW	LL1mw-083-0708-GW
Date		09/02/1999	10/03/2000	09/04/1999	10/03/2000	09/01/1999
Filtered		Total	Total	Total	Total	Total
Field Type		Field Duplicate	Grab	Grab	Grab	Grab
Analyte	Units					
Cyanide	µg/L	10 U	10 U	11 U	10 U	10 U

Location		LL-1 Groundwater (All)	LL-1 Groundwater (All)	LL-1 Groundwater (All)	LL-1 Groundwater (All)	LL-1 Groundwater (All)
Station		LL1mw-083	LL1mw-084	LL1mw-084	LL1mw-085	LL1mw-085
Sample ID		LL1089	LL0710	LL1090	LL0712	LL1091
Customer ID		LL1mw-083-1089-GW	LL1mw-084-0710-GW	LL1mw-084-1090-GW	LL1mw-085-0712-GW	LL1mw-085-1091-GW
Date		10/03/2000	09/04/1999	10/02/2000	09/03/1999	10/04/2000
Filtered		Total	Total	Total	Total	Total
Field Type		Grab	Grab	Grab	Grab	Grab
Analyte	Units					
Cyanide	µg/L	10 U	10 U	10 U	10 R	10 U

Location		LL-1 Groundwater (All)	LL-1 Groundwater (All)	LL-1 Groundwater (All)	LL-1 Groundwater (All)
Station		LL2mw-059	LL2mw-059	LL2mw-060	LL2mw-060
Sample ID		LL0686	LL1078	LL0688	LL1079
Customer ID		LL2mw-059-0686-GW	LL2mw-059-1078-GW	LL2mw-060-0688-GW	LL2mw-060-1079-GW
Date		09/03/1999	10/01/2000	09/06/1999	10/01/2000
Filtered		Total	Total	Total	Total
Field Type		Grab	Grab	Grab	Grab
Analyte	Units				
Cyanide	µg/L	10 R	10 U	10 U	10 U

"=" = detected.
J = estimated.
U = not detected.
UJ = not detected, detection limit estimated.
R = rejected.
Blank fields indicate no analysis for a particular constituent was conducted.

Table 4-50. Results for Groundwater Samples – Propellant and Explosive Constituents

Location		LL-1 Groundwater (All)	LL-1 Groundwater (All)	LL-1 Groundwater (All)	LL-1 Groundwater (All)	LL-1 Groundwater (All)
Station		LL1mw-064	LL1mw-064	LL1mw-065	LL1mw-065	LL1mw-065
Sample ID		LL0692	LL1081	LL0694	LL1082	LL1145
Customer ID		LL1mw-064-0692-GW	LL1mw-064-1081-GW	LL1mw-065-0694-GW	LL1mw-065-1082-GW	LL1mw-065-1145-GW
Date		09/05/1999	10/02/2000	09/05/1999	10/02/2000	10/02/2000
Filtered		Total	Total	Total	Total	Total
Field Type		Grab	Grab	Grab	Grab	Field Duplicate
Analyte	Units					
1,3,5-Trinitrobenzene	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,3-Dinitrobenzene	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2,4,6-Trinitrotoluene	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2,4-Dinitrotoluene	µg/L	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
2,6-Dinitrotoluene	µg/L	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
2-Amino-4,6-dinitrotoluene	µg/L		0.2 U		0.2 U	0.2 U
2-Nitrotoluene	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
3-Nitrotoluene	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
4-Amino-2,6-dinitrotoluene	µg/L		0.2 U		0.2 U	0.2 U
4-Nitrotoluene	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
HMX	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Nitrobenzene	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nitrocellulose	µg/L	500 U	500 U	500 U	500 U	500 U
Nitroglycerin	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Nitroguanidine	µg/L	20 UJ	20 U	20 UJ	20 U	20 U
RDX	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetryl	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U

Table 4-50. Results for Groundwater Samples – Propellant and Explosive Constituents (continued)

Location Station Sample ID Customer ID Date Filtered Field Type Analyte	Units	LL-1 Groundwater (All) LL1mw-067 LL0696 LL1mw-067-0696-GW 09/05/1999 Total Grab	LL-1 Groundwater (All) LL1mw-067 LL1083 LL1mw-067-1083-GW 10/04/2000 Total Grab	LL-1 Groundwater (All) LL1mw-078 LL0698 LL1mw-078-0698-GW 09/01/1999 Total Grab	LL-1 Groundwater (All) LL1mw-078 LL1084 LL1mw-078-1084-GW 10/03/2000 Total Grab	LL-1 Groundwater (All) LL1mw-079 LL0700 LL1mw-079-0700-GW 09/02/1999 Total Grab
1,3,5-Trinitrobenzene	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,3-Dinitrobenzene	µg/L	0.2 U	0.2 U	0.1 J	0.2 U	0.046 J
2,4,6-Trinitrotoluene	µg/L	0.2 U	0.2 U	0.2 =	0.2 U	0.085 J
2,4-Dinitrotoluene	µg/L	0.13 U	0.063 J	0.13 U	0.06 J	0.13 U
2,6-Dinitrotoluene	µg/L	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
2-Amino-4,6-dinitrotoluene	µg/L		0.2 U		0.2 U	
2-Nitrotoluene	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
3-Nitrotoluene	µg/L	0.2 U	0.16 J	0.2 U	0.2 U	0.2 U
4-Amino-2,6-dinitrotoluene	µg/L		0.2 U		0.2 U	
4-Nitrotoluene	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
HMX	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Nitrobenzene	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nitrocellulose	µg/L	500 U	500 U	500 UJ	500 U	500 U
Nitroglycerin	µg/L	2.5 U	2.5 U	7 U	2.5 U	2.5 U
Nitroguanidine	µg/L	20 UJ	20 U	20 UJ	20 U	20 UJ
RDX	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.43 J
Tetryl	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U

Table 4-50. Results for Groundwater Samples – Propellant and Explosive Constituents (continued)

Location Station Sample ID Customer ID Date Filtered Field Type Analyte	Units	LL-1 Groundwater (All) LL1mw-079 LL0714 LL1mw-079-0714-GW 09/02/1999 Total Field Duplicate	LL-1 Groundwater (All) LL1mw-079 LL1085 LL1mw-079-1085-GW 10/03/2000 Total Grab	LL-1 Groundwater (All) LL1mw-080 LL0702 LL1mw-080-0702-GW 09/06/1999 Total Grab	LL-1 Groundwater (All) LL1mw-080 LL1086 LL1mw-080-1086-GW 10/04/2000 Total Grab	LL-1 Groundwater (All) LL1mw-081 LL0704 LL1mw-081-0704-GW 09/02/1999 Total Grab
1,3,5-Trinitrobenzene	µg/L	0.2 U	0.2 U	0.2 U	2.5 =	0.2 U
1,3-Dinitrobenzene	µg/L	0.2 U	0.2 U	0.2 U	0.95 J	0.045 J
2,4,6-Trinitrotoluene	µg/L	0.076 J	0.2 U	0.18 J	3.6 =	0.2 U
2,4-Dinitrotoluene	µg/L	0.13 U	0.13 U	0.13 U	0.9 J	0.13 U
2,6-Dinitrotoluene	µg/L	0.13 U	0.13 U	0.13 U	3.7 U	0.13 U
2-Amino-4,6-dinitrotoluene	µg/L		0.3 =		10 =	
2-Nitrotoluene	µg/L	0.2 U	0.2 U	0.2 U	2 U	0.2 U
3-Nitrotoluene	µg/L	0.2 U	0.2 U	0.2 U	2 U	0.14 J
4-Amino-2,6-dinitrotoluene	µg/L		0.3 =		10 =	
4-Nitrotoluene	µg/L	0.2 U	0.2 U	0.2 U	2 U	0.2 U
HMX	µg/L	0.5 U	0.5 U	0.92 =	12 =	5.5 U
Nitrobenzene	µg/L	0.2 U	0.2 U	0.2 U	2 U	0.2 U
Nitrocellulose	µg/L	500 U	500 U	500 U	500 U	500 U
Nitroglycerin	µg/L	5.3 U	2.5 U	2.5 U	27 =	2.5 U
Nitroguanidine	µg/L	20 UJ	20 U	20 UJ	20 U	20 UJ
RDX	µg/L	0.45 J	0.21 J	1.9 =	88 =	0.15 J
Tetryl	µg/L	0.2 U	0.2 U	0.2 U	2 U	0.2 U

Table 4-50. Results for Groundwater Samples – Propellant and Explosive Constituents (continued)

Location Station Sample ID Customer ID Date Filtered Field Type Analyte	Units	LL-1 Groundwater (All) LL1mw-081 LL0715 LL1mw-081-0715-GW 09/02/1999 Total Field Duplicate	LL-1 Groundwater (All) LL1mw-081 LL1087 LL1mw-081-1087-GW 10/03/2000 Total Grab	LL-1 Groundwater (All) LL1mw-082 LL0706 LL1mw-082-0706-GW 09/04/1999 Total Grab	LL-1 Groundwater (All) LL1mw-082 LL1088 LL1mw-082-1088-GW 10/03/2000 Total Grab	LL-1 Groundwater (All) LL1mw-083 LL0708 LL1mw-083-0708-GW 09/01/1999 Total Grab
1,3,5-Trinitrobenzene	µg/L	0.2 U	0.11 J	0.2 U	0.2 U	5.3 =
1,3-Dinitrobenzene	µg/L	0.046 J	0.2 U	0.2 U	0.2 U	1.3 =
2,4,6-Trinitrotoluene	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	11 =
2,4-Dinitrotoluene	µg/L	0.13 U	0.09 J	0.13 U	0.13 U	5.2 =
2,6-Dinitrotoluene	µg/L	0.13 U	0.75 U	0.13 U	0.13 U	3.8 =
2-Amino-4,6-dinitrotoluene	µg/L		2.8 =		0.2 U	
2-Nitrotoluene	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U
3-Nitrotoluene	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U
4-Amino-2,6-dinitrotoluene	µg/L		1.6 =		0.2 U	
4-Nitrotoluene	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U
HMX	µg/L	6.8 U	7.6 U	0.5 U	0.5 U	1 U
Nitrobenzene	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U
Nitrocellulose	µg/L	500 U	500 U	500 U	500 U	500 UJ
Nitroglycerin	µg/L	2.5 U	4.2 =	2.5 U	2.5 U	60 U
Nitroguanidine	µg/L	20 UJ	20 U	20 UJ	20 U	20 UJ
RDX	µg/L	0.21 J	2.8 =	0.5 U	0.5 U	0.66 J
Tetryl	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.12 J

Table 4-50. Results for Groundwater Samples – Propellant and Explosive Constituents (continued)

Location		LL-1 Groundwater (All)	LL-1 Groundwater (All)	LL-1 Groundwater (All)	LL-1 Groundwater (All)	LL-1 Groundwater (All)
Station		**LL1mw-083**	**LL1mw-084**	**LL1mw-084**	**LL1mw-085**	**LL1mw-085**
Sample ID		**LL1089**	**LL0710**	**LL1090**	**LL0712**	**LL1091**
Customer ID		**LL1mw-083-1089-GW**	**LL1mw-084-0710-GW**	**LL1mw-084-1090-GW**	**LL1mw-085-0712-GW**	**LL1mw-085-1091-GW**
Date		**10/03/2000**	**09/04/1999**	**10/02/2000**	**09/03/1999**	**10/04/2000**
Filtered		**Total**	**Total**	**Total**	**Total**	**Total**
Field Type		**Grab**	**Grab**	**Grab**	**Grab**	**Grab**
Analyte	**Units**					
1,3,5-Trinitrobenzene	µg/L	12 =	6.1 =	8.5 =	0.2 U	0.2 U
1,3-Dinitrobenzene	µg/L	0.19 J	0.99 =	0.79 =	0.082 J	0.052 J
2,4,6-Trinitrotoluene	µg/L	8.9 =	15 =	16 =	0.2 U	0.2 U
2,4-Dinitrotoluene	µg/L	4.4 =	7.9 =	5.1 =	0.13 U	0.13 U
2,6-Dinitrotoluene	µg/L	8.9 U	4 U	6.4 U	0.13 U	0.13 U
2-Amino-4,6-dinitrotoluene	µg/L	29 =		20 =		0.2 U
2-Nitrotoluene	µg/L	1 U	0.4 U	0.6 U	0.2 U	0.2 U
3-Nitrotoluene	µg/L	1 U	0.48 U	0.6 U	0.2 U	0.2 U
4-Amino-2,6-dinitrotoluene	µg/L	25 =		23 =		0.2 U
4-Nitrotoluene	µg/L	1 U	0.4 U	0.6 U	0.2 U	0.2 U
HMX	µg/L	2.5 U	1 U	1.5 U	0.5 U	0.5 U
Nitrobenzene	µg/L	1 U	0.4 U	0.6 U	0.2 U	0.2 U
Nitrocellulose	µg/L	500 U	500 U	500 U	500 U	500 U
Nitroglycerin	µg/L	12 U	5 U	7.5 U	2.5 U	2.5 U
Nitroguanidine	µg/L	20 U	20 UJ	20 U	20 UJ	20 U
RDX	µg/L	1.2 J	1.3 U	1.5 U	0.5 U	0.5 U
Tetryl	µg/L	1 U	0.4 U	0.6 U	0.14 J	0.2 U

Table 4-50. Results for Groundwater Samples – Propellant and Explosive Constituents (continued)

Location Station Sample ID Customer ID Date Filtered Field Type Analyte	Units	LL-1 Groundwater (All) LL2mw-059 LL0686 LL2mw-059-0686-GW 09/03/1999 Total Grab	LL-1 Groundwater (All) LL2mw-059 LL1078 LL2mw-059-1078-GW 10/01/2000 Total Grab	LL-1 Groundwater (All) LL2mw-060 LL0688 LL2mw-060-0688-GW 09/06/1999 Total Grab	LL-1 Groundwater (All) LL2mw-060 LL1079 LL2mw-060-1079-GW 10/01/2000 Total Grab
1,3,5-Trinitrobenzene	µg/L	3.1 =	3.1 =	0.3 =	0.2 U
1,3-Dinitrobenzene	µg/L	0.092 J	0.068 J	0.2 U	0.2 U
2,4,6-Trinitrotoluene	µg/L	0.12 J	0.099 J	0.1 J	0.2 U
2,4-Dinitrotoluene	µg/L	0.24 U	0.24 U	0.096 J	0.22 =
2,6-Dinitrotoluene	µg/L	0.13 U	0.48 U	0.13 U	0.22 U
2-Amino-4,6-dinitrotoluene	µg/L		1.3 =		0.81 =
2-Nitrotoluene	µg/L	0.2 U	0.2 U	0.2 U	0.2 U
3-Nitrotoluene	µg/L	0.2 U	0.2 U	0.2 U	0.2 U
4-Amino-2,6-dinitrotoluene	µg/L		1.2 =		0.75 =
4-Nitrotoluene	µg/L	0.2 U	0.2 U	0.2 U	0.2 U
HMX	µg/L	0.5 U	0.5 U	0.5 U	0.5 U
Nitrobenzene	µg/L	0.2 U	0.2 U	0.2 U	0.2 U
Nitrocellulose	µg/L	500 U	500 U	500 U	500 U
Nitroglycerin	µg/L	28 U	2.5 U	2.5 U	2.5 U
Nitroguanidine	µg/L	20 UJ	20 U	20 UJ	20 U
RDX	µg/L	0.15 J	0.2 J	0.5 U	0.5 U
Tetryl	µg/L	0.17 J	0.2 U	0.2 U	0.2 U

"=" = detected.
J = estimated.
U = not detected.
UJ = not detected, detection limit estimated.
R = rejected.
Blank fields indicate no analysis for a particular constituent was conducted.

Table 4-51. Results for Groundwater Samples – Pesticide/PCB Constituents

Location		LL-1 Groundwater (All)	LL-1 Groundwater (All)	LL-1 Groundwater (All)	LL-1 Groundwater (All)	LL-1 Groundwater (All)
Station		LL1mw-064	LL1mw-065	LL1mw-065	LL1mw-067	LL1mw-078
Sample ID		LL1081	LL1082	LL1145	LL1083	LL1084
Customer ID		LL1mw-064-1081-GW	LL1mw-065-1082-GW	LL1mw-065-1145-GW	LL1mw-067-1083-GW	LL1mw-078-1084-GW
Date		10/02/2000	10/02/2000	10/02/2000	10/04/2000	10/03/2000
Filtered		Total	Total	Total	Total	Total
Field Type		Grab	Grab	Field Duplicate	Grab	Grab
Analyte	Units					
4,4'-DDD	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
4,4'-DDE	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
4,4'-DDT	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Aldrin	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Dieldrin	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Endosulfan I	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Endosulfan II	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Endosulfan sulfate	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Endrin	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Endrin aldehyde	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Endrin ketone	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Heptachlor	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Heptachlor epoxide	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Lindane	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Methoxychlor	µg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
PCB-1016	µg/L	1 U	1 U	1 U	1 U	1 U
PCB-1221	µg/L	1 U	1 U	1 U	1 U	1 U
PCB-1232	µg/L	1 U	1 U	1 U	1 U	1 U
PCB-1242	µg/L	1 U	1 U	1 U	1 U	1 U
PCB-1248	µg/L	1 U	1 U	1 U	1 U	1 U
PCB-1254	µg/L	1 U	1 U	1 U	1 U	1 U
PCB-1260	µg/L	1 U	1 U	1 U	1 U	1 U
Toxaphene	µg/L	2 U	2 U	2 U	2 U	2 U
alpha-BHC	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
alpha-Chlordane	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
beta-BHC	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
delta-BHC	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
gamma-Chlordane	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U

Table 4-51. Results for Groundwater Samples – Pesticide/PCB Constituents (continued)

Location Station Sample ID Customer ID Date Filtered Field Type Analyte	Units	LL-1 Groundwater (All) LL1mw-079 LL0700 LL1mw-079-0700-GW 09/02/1999 Total Grab	LL-1 Groundwater (All) LL1mw-079 LL0714 LL1mw-079-0714-GW 09/02/1999 Total Field Duplicate	LL-1 Groundwater (All) LL1mw-079 LL1085 LL1mw-079-1085-GW 10/03/2000 Total Grab	LL-1 Groundwater (All) LL1mw-080 LL1086 LL1mw-080-1086-GW 10/04/2000 Total Grab	LL-1 Groundwater (All) LL1mw-081 LL1087 LL1mw-081-1087-GW 10/03/2000 Total Grab
4,4'-DDD	µg/L	0.05 U	0.05 U	0.05 U	0.5 U	0.05 U
4,4'-DDE	µg/L	0.05 U	0.05 U	0.05 U	0.5 U	0.05 U
4,4'-DDT	µg/L	0.05 U	0.05 U	0.05 U	0.5 U	0.05 U
Aldrin	µg/L	0.05 U	0.05 U	0.05 U	0.5 U	0.05 U
Dieldrin	µg/L	0.05 U	0.05 U	0.05 U	0.5 U	0.05 U
Endosulfan I	µg/L	0.05 U	0.05 U	0.05 U	0.5 U	0.05 U
Endosulfan II	µg/L	0.05 U	0.05 U	0.05 U	0.5 U	0.05 U
Endosulfan sulfate	µg/L	0.05 U	0.05 U	0.05 U	0.5 U	0.05 U
Endrin	µg/L	0.05 U	0.05 U	0.05 U	0.5 U	0.05 U
Endrin aldehyde	µg/L	0.05 U	0.05 U	0.05 U	0.5 U	0.05 U
Endrin ketone	µg/L	0.05 U	0.05 U	0.05 U	0.5 U	0.05 U
Heptachlor	µg/L	0.05 U	0.05 U	0.05 U	0.5 U	0.05 U
Heptachlor epoxide	µg/L	0.05 U	0.05 U	0.05 U	0.5 U	0.05 U
Lindane	µg/L	0.05 U	0.05 U	0.05 U	0.5 U	0.05 U
Methoxychlor	µg/L	0.1 UJ	0.1 UJ	0.1 U	1 U	0.1 U
PCB-1016	µg/L	1 U	1 U	1 U	1 U	1 U
PCB-1221	µg/L	1 U	1 U	1 U	1 U	1 U
PCB-1232	µg/L	1 U	1 U	1 U	1 U	1 U
PCB-1242	µg/L	1 U	1 U	1 U	1 U	1 U
PCB-1248	µg/L	1 U	1 U	1 U	1 U	1 U
PCB-1254	µg/L	1 U	1 U	1 U	1 U	1 U
PCB-1260	µg/L	1 U	1 U	1 U	1 U	1 U
Toxaphene	µg/L	2 U	2 U	2 U	20 UJ	2 U
alpha-BHC	µg/L	0.05 U	0.05 U	0.05 U	0.5 U	0.05 U
alpha-Chlordane	µg/L	0.05 U	0.05 U	0.05 U	0.5 U	0.05 U
beta-BHC	µg/L	0.05 U	0.05 U	0.05 U	0.5 U	0.05 U
delta-BHC	µg/L	0.05 U	0.05 U	0.05 U	0.5 U	0.05 U
gamma-Chlordane	µg/L	0.05 U	0.05 U	0.05 U	0.5 U	0.05 U

Table 4-51. Results for Groundwater Samples – Pesticide/PCB Constituents (continued)

Location		LL-1 Groundwater (All)	LL-1 Groundwater (All)	LL-1 Groundwater (All)	LL-1 Groundwater (All)	LL-1 Groundwater (All)
Station		LL1mw-082	LL1mw-083	LL1mw-084	LL1mw-085	LL1mw-085
Sample ID		LL1088	LL1089	LL1090	LL0712	LL1091
Customer ID		LL1mw-082-1088-GW	LL1mw-083-1089-GW	LL1mw-084-1090-GW	LL1mw-085-0712-GW	LL1mw-085-1091-GW
Date		10/03/2000	10/03/2000	10/02/2000	09/03/1999	10/04/2000
Filtered		Total	Total	Total	Total	Total
Field Type		Grab	Grab	Grab	Grab	Grab
Analyte	Units					
4,4'-DDD	µg/L	0.05 U	0.5 U	0.5 U	0.05 U	0.05 U
4,4'-DDE	µg/L	0.05 U	13 =	0.5 U	0.05 U	0.05 U
4,4'-DDT	µg/L	0.05 U	0.5 U	0.5 U	0.05 U	0.05 U
Aldrin	µg/L	0.05 U	0.5 U	0.5 U	0.05 U	0.05 U
Dieldrin	µg/L	0.05 U	0.5 U	0.5 U	0.05 U	0.05 U
Endosulfan I	µg/L	0.05 U	0.5 U	0.5 U	0.05 U	0.05 U
Endosulfan II	µg/L	0.05 U	0.5 U	0.5 U	0.05 U	0.05 U
Endosulfan sulfate	µg/L	0.05 U	0.5 U	0.5 U	0.05 U	0.05 U
Endrin	µg/L	0.05 U	0.5 U	0.5 U	0.05 U	0.05 U
Endrin aldehyde	µg/L	0.05 U	0.5 U	0.5 U	0.05 U	0.05 U
Endrin ketone	µg/L	0.05 U	0.5 U	0.5 U	0.05 U	0.05 U
Heptachlor	µg/L	0.05 U	0.5 U	0.5 UJ	0.05 U	0.05 U
Heptachlor epoxide	µg/L	0.05 U	0.5 U	0.5 U	0.05 U	0.05 U
Lindane	µg/L	0.05 U	0.5 U	0.5 U	0.05 U	0.05 U
Methoxychlor	µg/L	0.1 U	1 U	1 U	0.1 UJ	0.1 U
PCB-1016	µg/L	1 U	1 U	1 U	1 U	1 U
PCB-1221	µg/L	1 U	1 U	1 U	1 U	1 U
PCB-1232	µg/L	1 U	1 U	1 U	1 U	1 U
PCB-1242	µg/L	1 U	1 U	1 U	1 U	1 U
PCB-1248	µg/L	1 U	1 U	1 U	1 U	1 U
PCB-1254	µg/L	1 U	1 U	1 U	1 U	1 U
PCB-1260	µg/L	1 U	1 U	1 U	1 U	1 U
Toxaphene	µg/L	2 U	20 U	20 UJ	2 U	2 U
alpha-BHC	µg/L	0.05 U	0.5 U	0.5 U	0.05 U	0.05 U
alpha-Chlordane	µg/L	0.05 U	0.5 U	0.5 U	0.05 U	0.05 U
beta-BHC	µg/L	0.05 U	0.5 U	0.5 U	0.05 U	0.05 U
delta-BHC	µg/L	0.05 U	0.5 U	0.5 U	0.05 U	0.05 U
gamma-Chlordane	µg/L	0.05 U	0.5 U	0.5 U	0.05 U	0.05 U

Table 4-51. Results for Groundwater Samples – Pesticide/PCB Constituents (continued)

Location Station Sample ID Customer ID Date Filtered Field Type Analyte	Units	LL-1 Groundwater (All) LL2mw-059 LL1078 LL2mw-059-1078-GW 10/01/2000 Total Grab	LL-1 Groundwater (All) LL2mw-060 LL1079 LL2mw-060-1079-GW 10/01/2000 Total Grab
4,4'-DDD	µg/L	0.05 U	0.05 U
4,4'-DDE	µg/L	0.05 U	0.05 U
4,4'-DDT	µg/L	0.05 U	0.05 U
Aldrin	µg/L	0.05 U	0.05 U
Dieldrin	µg/L	0.05 U	0.05 U
Endosulfan I	µg/L	0.05 U	0.05 U
Endosulfan II	µg/L	0.05 U	0.05 U
Endosulfan sulfate	µg/L	0.05 U	0.05 U
Endrin	µg/L	0.05 U	0.05 U
Endrin aldehyde	µg/L	0.05 U	0.05 U
Endrin ketone	µg/L	0.05 U	0.05 U
Heptachlor	µg/L	0.05 U	0.05 U
Heptachlor epoxide	µg/L	0.05 U	0.05 U
Lindane	µg/L	0.05 U	0.05 U
Methoxychlor	µg/L	0.1 U	0.1 U
PCB-1016	µg/L	1 U	1 U
PCB-1221	µg/L	1 U	1 U
PCB-1232	µg/L	1 U	1 U
PCB-1242	µg/L	1 U	1 U
PCB-1248	µg/L	1 U	1 U
PCB-1254	µg/L	1 U	1 U
PCB-1260	µg/L	1 U	1 U
Toxaphene	µg/L	2 U	2 U
alpha-BHC	µg/L	0.05 U	0.05 U
alpha-Chlordane	µg/L	0.05 U	0.05 U
beta-BHC	µg/L	0.05 U	0.05 U
delta-BHC	µg/L	0.05 U	0.05 U
gamma-Chlordane	µg/L	0.05 U	0.05 U

"=" = detected.
J = estimated.
U = not detected.
UJ = not detected, detection limit estimated.
R = rejected.
PCB = polychlorniated biphenyl.
Blank fields indicate no analysis for a particular constituent was conducted.

Table 4-52. Results for Groundwater Samples – Semivolatile Organic Constituents

Location Station Sample ID Customer ID Date Filtered Field Type Analyte	Units	LL-1 Groundwater (All) LL1mw-064 LL1081 LL1mw-064-1081-GW 10/02/2000 Total Grab	LL-1 Groundwater (All) LL1mw-065 LL1082 LL1mw-065-1082-GW 10/02/2000 Total Grab	LL-1 Groundwater (All) LL1mw-065 LL1145 LL1mw-065-1145-GW 10/02/2000 Total Field Duplicate	LL-1 Groundwater (All) LL1mw-067 LL1083 LL1mw-067-1083-GW 10/04/2000 Total Grab	LL-1 Groundwater (All) LL1mw-078 LL1084 LL1mw-078-1084-GW 10/03/2000 Total Grab
1,2,4-Trichlorobenzene	µg/L	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene	µg/L	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	µg/L	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene	µg/L	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	µg/L	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol	µg/L	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	µg/L	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	µg/L	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	µg/L	25 U	25 U	25 U	25 U	25 U
2,4-Dinitrotoluene	µg/L	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	µg/L	10 U	10 U	10 U	10 U	10 U
2-Chloronaphthalene	µg/L	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol	µg/L	10 U	10 U	10 U	10 U	10 U
2-Methyl-4,6-dinitrophenol	µg/L	25 U	25 U	25 U	25 U	25 U
2-Methylnaphthalene	µg/L	10 U	10 U	10 U	10 U	10 U
2-Methylphenol	µg/L	10 U	10 U	10 U	10 U	10 U
2-Nitrobenzenamine	µg/L	25 U	25 U	25 U	25 U	25 U
2-Nitrophenol	µg/L	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine	µg/L	10 U	10 U	10 U	10 U	10 U
3-Nitrobenzenamine	µg/L	25 UJ	25 UJ	25 UJ	25 UJ	25 UJ
4-Bromophenyl phenyl ether	µg/L	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol	µg/L	10 U	10 U	10 U	10 U	10 U
4-Chlorobenzenamine	µg/L	10 R	10 R	10 R	10 R	10 R
4-Chlorophenyl phenyl ether	µg/L	10 U	10 U	10 U	10 U	10 U
4-Methylphenol	µg/L	10 U	10 U	10 U	10 U	10 U
4-Nitrobenzenamine	µg/L	25 U	25 U	25 U	25 U	25 U
4-Nitrophenol	µg/L	25 U	25 U	25 U	25 U	25 U

Table 4-52. Results for Groundwater Samples – Semivolatile Organic Constituents (continued)

Location Station Sample ID Customer ID Date Filtered Field Type Analyte	Units	LL-1 Groundwater (All) LL1mw-064 LL1081 LL1mw-064-1081-GW 10/02/2000 Total Grab	LL-1 Groundwater (All) LL1mw-065 LL1082 LL1mw-065-1082-GW 10/02/2000 Total Grab	LL-1 Groundwater (All) LL1mw-065 LL1145 LL1mw-065-1145-GW 10/02/2000 Total Field Duplicate	LL-1 Groundwater (All) LL1mw-067 LL1083 LL1mw-067-1083-GW 10/04/2000 Total Grab	LL-1 Groundwater (All) LL1mw-078 LL1084 LL1mw-078-1084-GW 10/03/2000 Total Grab
Acenaphthene	µg/L	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	µg/L	10 U	10 U	10 U	10 U	10 U
Anthracene	µg/L	10 U	10 U	10 U	10 U	10 U
Benz(a)anthracene	µg/L	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	µg/L	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	10 U	10 U	10 U	10 U	10 U
Benzo(ghi)perylene	µg/L	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	10 U	10 U	10 U	10 U	10 U
Bis(2-chloroethoxy)methane	µg/L	10 U	10 U	10 U	10 U	10 U
Bis(2-chloroethyl) ether	µg/L	10 U	10 U	10 U	10 U	10 U
Bis(2-chloroisopropyl) ether	µg/L	10 U	10 U	10 U	10 U	10 U
Bis(2-ethylhexyl)phthalate	µg/L	10 U	10 U	10 U	10 U	10 U
Butyl benzyl phthalate	µg/L	10 U	10 U	10 U	10 U	10 U
Carbazole	µg/L	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	10 U	10 U	10 U	10 U	10 U
Di-n-butyl phthalate	µg/L	10 U	10 U	10 U	10 U	10 U
Di-n-octylphthalate	µg/L	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	µg/L	10 U	10 U	10 U	10 U	10 U
Diethyl phthalate	µg/L	10 U	10 U	10 U	10 U	10 U
Dimethyl phthalate	µg/L	10 U	10 U	10 U	10 U	10 U
Fluoranthene	µg/L	10 U	10 U	10 U	10 U	10 U
Fluorene	µg/L	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene	µg/L	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	µg/L	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	µg/L	10 U	10 U	10 U	10 U	10 U
Hexachloroethane	µg/L	10 U	10 U	10 U	10 U	10 U

Table 4-52. Results for Groundwater Samples – Semivolatile Organic Constituents (continued)

Location		LL-1 Groundwater (All)	LL-1 Groundwater (All)	LL-1 Groundwater (All)	LL-1 Groundwater (All)	LL-1 Groundwater (All)
Station		LL1mw-064	LL1mw-065	LL1mw-065	LL1mw-067	LL1mw-078
Sample ID		LL1081	LL1082	LL1145	LL1083	LL1084
Customer ID		LL1mw-064-1081-GW	LL1mw-065-1082-GW	LL1mw-065-1145-GW	LL1mw-067-1083-GW	LL1mw-078-1084-GW
Date		10/02/2000	10/02/2000	10/02/2000	10/04/2000	10/03/2000
Filtered		Total	Total	Total	Total	Total
Field Type		Grab	Grab	Field Duplicate	Grab	Grab
Analyte	Units					
Indeno(1,2,3-cd)pyrene	µg/L	10 U	10 U	10 U	10 U	10 U
Isophorone	µg/L	10 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	µg/L	10 U	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine	µg/L	10 U	10 U	10 U	10 U	10 U
Naphthalene	µg/L	10 U	10 U	10 U	10 U	10 U
Nitrobenzene	µg/L	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol	µg/L	25 U	25 U	25 U	25 U	25 U
Phenanthrene	µg/L	10 U	10 U	10 U	10 U	10 U
Phenol	µg/L	10 U	10 U	10 U	10 U	10 U
Pyrene	µg/L	10 U	10 U	10 U	10 U	10 U

Table 4-52. Results for Groundwater Samples – Semivolatile Organic Constituents (continued)

Location Station Sample ID Customer ID Date Filtered Field Type Analyte	Units	LL-1 Groundwater (All) LL1mw-079 LL0700 LL1mw-079-0700-GW 09/02/1999 Total Grab	LL-1 Groundwater (All) LL1mw-079 LL0714 LL1mw-079-0714-GW 09/02/1999 Total Field Duplicate	LL-1 Groundwater (All) LL1mw-079 LL1085 LL1mw-079-1085-GW 10/03/2000 Total Grab	LL-1 Groundwater (All) LL1mw-080 LL1086 LL1mw-080-1086-GW 10/04/2000 Total Grab	LL-1 Groundwater (All) LL1mw-081 LL1087 LL1mw-081-1087-GW 10/03/2000 Total Grab
1,2,4-Trichlorobenzene	µg/L	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene	µg/L	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	µg/L	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene	µg/L	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	µg/L	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol	µg/L	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	µg/L	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	µg/L	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	µg/L	25 UJ	25 UJ	25 U	25 U	25 U
2,4-Dinitrotoluene	µg/L	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	µg/L	10 U	10 U	10 U	10 U	10 U
2-Chloronaphthalene	µg/L	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol	µg/L	10 U	10 U	10 U	10 U	10 U
2-Methyl-4,6-dinitrophenol	µg/L	25 U	25 U	25 U	25 U	25 U
2-Methylnaphthalene	µg/L	10 U	10 U	10 U	10 U	10 U
2-Methylphenol	µg/L	10 U	10 U	10 U	10 U	10 U
2-Nitrobenzenamine	µg/L	25 U	25 U	25 U	25 U	25 U
2-Nitrophenol	µg/L	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine	µg/L	10 UJ	10 U	10 U	10 U	10 U
3-Nitrobenzenamine	µg/L	25 U	25 U	25 UJ	25 UJ	25 UJ
4-Bromophenyl phenyl ether	µg/L	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol	µg/L	10 U	10 U	10 U	10 U	10 U
4-Chlorobenzenamine	µg/L	10 U	10 U	10 R	10 R	10 R
4-Chlorophenyl phenyl ether	µg/L	10 U	10 U	10 U	10 U	10 U
4-Methylphenol	µg/L	10 U	10 U	10 U	10 U	10 U
4-Nitrobenzenamine	µg/L	25 U	25 U	25 U	25 U	25 U
4-Nitrophenol	µg/L	25 U	25 U	25 U	25 U	25 U

Table 4-52. Results for Groundwater Samples – Semivolatile Organic Constituents (continued)

Location		LL-1 Groundwater (All)	LL-1 Groundwater (All)	LL-1 Groundwater (All)	LL-1 Groundwater (All)	LL-1 Groundwater (All)
Station		LL1mw-079	LL1mw-079	LL1mw-079	LL1mw-080	LL1mw-081
Sample ID		LL0700	LL0714	LL1085	LL1086	LL1087
Customer ID		LL1mw-079-0700-GW	LL1mw-079-0714-GW	LL1mw-079-1085-GW	LL1mw-080-1086-GW	LL1mw-081-1087-GW
Date		09/02/1999	09/02/1999	10/03/2000	10/04/2000	10/03/2000
Filtered		Total	Total	Total	Total	Total
Field Type		Grab	Field Duplicate	Grab	Grab	Grab
Analyte	Units					
Acenaphthene	µg/L	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	µg/L	10 U	10 U	10 U	10 U	10 U
Anthracene	µg/L	10 U	10 U	10 U	10 U	10 U
Benz(a)anthracene	µg/L	10 UJ	10 U	10 U	10 U	10 U
Benzo(a)pyrene	µg/L	10 UJ	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	10 UJ	10 U	10 U	10 U	10 U
Benzo(ghi)perylene	µg/L	10 UJ	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	10 UJ	10 U	10 U	10 U	10 U
Bis(2-chloroethoxy)methane	µg/L	10 U	10 U	10 U	10 U	10 U
Bis(2-chloroethyl) ether	µg/L	10 U	10 U	10 U	10 U	10 U
Bis(2-chloroisopropyl) ether	µg/L	10 U	10 U	10 U	10 U	10 U
Bis(2-ethylhexyl)phthalate	µg/L	3.6 J	10 U	10 U	10 U	10 U
Butyl benzyl phthalate	µg/L	10 UJ	10 U	10 U	10 U	10 U
Carbazole	µg/L	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	10 UJ	10 U	10 U	10 U	10 U
Di-n-butyl phthalate	µg/L	10 U	10 U	10 U	10 U	10 U
Di-n-octylphthalate	µg/L	10 UJ	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	10 UJ	10 U	10 U	10 U	10 U
Dibenzofuran	µg/L	10 U	10 U	10 U	10 U	10 U
Diethyl phthalate	µg/L	10 U	10 U	10 U	10 U	10 U
Dimethyl phthalate	µg/L	10 U	10 U	10 U	10 U	10 U
Fluoranthene	µg/L	10 U	10 U	10 U	10 U	10 U
Fluorene	µg/L	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene	µg/L	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	µg/L	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	µg/L	10 R	10 R	10 U	10 U	10 U
Hexachloroethane	µg/L	10 U	10 U	10 U	10 U	10 U

Table 4-52. Results for Groundwater Samples – Semivolatile Organic Constituents (continued)

Location		LL-1 Groundwater (All)	LL-1 Groundwater (All)	LL-1 Groundwater (All)	LL-1 Groundwater (All)	LL-1 Groundwater (All)
Station		LL1mw-079	LL1mw-079	LL1mw-079	LL1mw-080	LL1mw-081
Sample ID		LL0700	LL0714	LL1085	LL1086	LL1087
Customer ID		LL1mw-079-0700-GW	LL1mw-079-0714-GW	LL1mw-079-1085-GW	LL1mw-080-1086-GW	LL1mw-081-1087-GW
Date		09/02/1999	09/02/1999	10/03/2000	10/04/2000	10/03/2000
Filtered		Total	Total	Total	Total	Total
Field Type		Grab	Field Duplicate	Grab	Grab	Grab
Analyte	Units					
Indeno(1,2,3-cd)pyrene	µg/L	10 UJ	10 U	10 U	10 U	10 U
Isophorone	µg/L	10 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	µg/L	10 U	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine	µg/L	10 U	10 U	10 U	10 U	10 U
Naphthalene	µg/L	10 U	10 U	10 U	10 U	10 U
Nitrobenzene	µg/L	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol	µg/L	25 U	25 U	25 U	25 U	25 U
Phenanthrene	µg/L	10 U	10 U	10 U	10 U	10 U
Phenol	µg/L	10 U	10 U	10 U	10 U	10 U
Pyrene	µg/L	10 UJ	10 U	10 U	10 U	10 U

Table 4-52. Results for Groundwater Samples – Semivolatile Organic Constituents (continued)

Location		LL-1 Groundwater (All)	LL-1 Groundwater (All)	LL-1 Groundwater (All)	LL-1 Groundwater (All)	LL-1 Groundwater (All)
Station		LL1mw-082	LL1mw-083	LL1mw-084	LL1mw-085	LL1mw-085
Sample ID		LL1088	LL1089	LL1090	LL0712	LL1091
Customer ID		LL1mw-082-1088-GW	LL1mw-083-1089-GW	LL1mw-084-1090-GW	LL1mw-085-0712-GW	LL1mw-085-1091-GW
Date		10/03/2000	10/03/2000	10/02/2000	09/03/1999	10/04/2000
Filtered		Total	Total	Total	Total	Total
Field Type		Grab	Grab	Grab	Grab	Grab
Analyte	Units					
1,2,4-Trichlorobenzene	µg/L	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene	µg/L	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	µg/L	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene	µg/L	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	µg/L	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol	µg/L	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	µg/L	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	µg/L	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	µg/L	25 U	25 U	25 U	25 U	25 U
2,4-Dinitrotoluene	µg/L	10 U	2 J	3 J	10 U	10 U
2,6-Dinitrotoluene	µg/L	10 U	10 U	10 U	10 U	10 U
2-Chloronaphthalene	µg/L	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol	µg/L	10 U	10 U	10 U	10 U	10 U
2-Methyl-4,6-dinitrophenol	µg/L	25 U	25 U	25 U	25 U	25 U
2-Methylnaphthalene	µg/L	10 U	10 U	10 U	10 U	10 U
2-Methylphenol	µg/L	10 U	10 U	10 U	10 U	10 U
2-Nitrobenzenamine	µg/L	25 U	25 U	25 U	25 U	25 U
2-Nitrophenol	µg/L	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine	µg/L	10 U	10 U	10 U	10 U	10 U
3-Nitrobenzenamine	µg/L	25 UJ	25 UJ	25 U	25 U	25 UJ
4-Bromophenyl phenyl ether	µg/L	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol	µg/L	10 U	10 U	10 U	10 U	10 U
4-Chlorobenzenamine	µg/L	10 R	10 R	10 U	10 U	10 R
4-Chlorophenyl phenyl ether	µg/L	10 U	10 U	10 U	10 U	10 U
4-Methylphenol	µg/L	10 U	10 U	10 U	10 U	10 U
4-Nitrobenzenamine	µg/L	25 U	25 U	25 U	25 U	25 U
4-Nitrophenol	µg/L	25 U	25 U	25 U	25 U	25 U

Table 4-52. Results for Groundwater Samples – Semivolatile Organic Constituents (continued)

Location		LL-1 Groundwater (All)	LL-1 Groundwater (All)	LL-1 Groundwater (All)	LL-1 Groundwater (All)	LL-1 Groundwater (All)
Station		LL1mw-082	LL1mw-083	LL1mw-084	LL1mw-085	LL1mw-085
Sample ID		LL1088	LL1089	LL1090	LL0712	LL1091
Customer ID		LL1mw-082-1088-GW	LL1mw-083-1089-GW	LL1mw-084-1090-GW	LL1mw-085-0712-GW	LL1mw-085-1091-GW
Date		10/03/2000	10/03/2000	10/02/2000	09/03/1999	10/04/2000
Filtered		Total	Total	Total	Total	Total
Field Type		Grab	Grab	Grab	Grab	Grab
Analyte	Units					
Acenaphthene	µg/L	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	µg/L	10 U	10 U	10 U	10 U	10 U
Anthracene	µg/L	10 U	10 U	10 U	10 U	10 U
Benz(a)anthracene	µg/L	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	µg/L	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	10 U	10 U	10 U	10 U	10 U
Benzo(ghi)perylene	µg/L	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	10 U	10 U	10 U	10 U	10 U
Bis(2-chloroethoxy)methane	µg/L	10 U	10 U	10 U	10 U	10 U
Bis(2-chloroethyl) ether	µg/L	10 U	10 U	10 U	10 U	10 U
Bis(2-chloroisopropyl) ether	µg/L	10 U	10 U	10 U	10 U	10 U
Bis(2-ethylhexyl)phthalate	µg/L	10 U	10 U	10 U	10 U	10 U
Butyl benzyl phthalate	µg/L	10 U	10 U	10 U	10 U	10 U
Carbazole	µg/L	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	10 U	10 U	10 U	10 U	10 U
Di-n-butyl phthalate	µg/L	10 U	10 U	10 U	10 U	10 U
Di-n-octylphthalate	µg/L	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	µg/L	10 U	10 U	10 U	10 U	10 U
Diethyl phthalate	µg/L	10 U	10 U	10 U	10 U	10 U
Dimethyl phthalate	µg/L	10 U	10 U	10 U	10 U	10 U
Fluoranthene	µg/L	10 U	10 U	10 U	10 U	10 U
Fluorene	µg/L	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene	µg/L	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	µg/L	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	µg/L	10 U	10 U	10 R	10 R	10 U
Hexachloroethane	µg/L	10 U	10 U	10 U	10 U	10 U

Table 4-52. Results for Groundwater Samples – Semivolatile Organic Constituents (continued)

Location		LL-1 Groundwater (All)	LL-1 Groundwater (All)	LL-1 Groundwater (All)	LL-1 Groundwater (All)	LL-1 Groundwater (All)
Station		LL1mw-082	LL1mw-083	LL1mw-084	LL1mw-085	LL1mw-085
Sample ID		LL1088	LL1089	LL1090	LL0712	LL1091
Customer ID		LL1mw-082-1088-GW	LL1mw-083-1089-GW	LL1mw-084-1090-GW	LL1mw-085-0712-GW	LL1mw-085-1091-GW
Date		10/03/2000	10/03/2000	10/02/2000	09/03/1999	10/04/2000
Filtered		Total	Total	Total	Total	Total
Field Type		Grab	Grab	Grab	Grab	Grab
Analyte	Units					
Indeno(1,2,3-cd)pyrene	µg/L	10 U	10 U	10 U	10 U	10 U
Isophorone	µg/L	10 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	µg/L	10 U	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine	µg/L	10 U	10 U	10 U	10 U	10 U
Naphthalene	µg/L	10 U	10 U	10 U	10 U	10 U
Nitrobenzene	µg/L	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol	µg/L	25 U	25 U	25 U	25 U	25 U
Phenanthrene	µg/L	10 U	10 U	10 U	10 U	10 U
Phenol	µg/L	10 U	10 U	10 U	10 U	10 U
Pyrene	µg/L	10 U	10 U	10 U	10 U	10 U

Table 4-52. Results for Groundwater Samples – Semivolatile Organic Constituents (continued)

Location		LL-1 Groundwater (All)	LL-1 Groundwater (All)
Station		LL2mw-059	LL2mw-060
Sample ID		LL1078	LL1079
Customer ID		LL2mw-059-1078-GW	LL2mw-060-1079-GW
Date		10/01/2000	10/01/2000
Filtered		Total	Total
Field Type		Grab	Grab
Analyte	Units		
1,2,4-Trichlorobenzene	µg/L	10 U	10 U
1,2-Dichlorobenzene	µg/L	10 U	10 U
1,3-Dichlorobenzene	µg/L	10 U	10 U
1,4-Dichlorobenzene	µg/L	10 U	10 U
2,4,5-Trichlorophenol	µg/L	10 U	10 U
2,4,6-Trichlorophenol	µg/L	10 U	10 U
2,4-Dichlorophenol	µg/L	10 U	10 U
2,4-Dimethylphenol	µg/L	10 U	10 U
2,4-Dinitrophenol	µg/L	25 U	25 U
2,4-Dinitrotoluene	µg/L	10 U	10 U
2,6-Dinitrotoluene	µg/L	10 U	10 U
2-Chloronaphthalene	µg/L	10 U	10 U
2-Chlorophenol	µg/L	10 U	10 U
2-Methyl-4,6-dinitrophenol	µg/L	25 U	25 U
2-Methylnaphthalene	µg/L	10 U	10 U
2-Methylphenol	µg/L	10 U	10 U
2-Nitrobenzenamine	µg/L	25 U	25 U
2-Nitrophenol	µg/L	10 U	10 U
3,3'-Dichlorobenzidine	µg/L	10 U	10 U
3-Nitrobenzenamine	µg/L	25 U	25 U
4-Bromophenyl phenyl ether	µg/L	10 U	10 U
4-Chloro-3-methylphenol	µg/L	10 U	10 U
4-Chlorobenzenamine	µg/L	10 U	10 U
4-Chlorophenyl phenyl ether	µg/L	10 U	10 U
4-Methylphenol	µg/L	10 U	10 U
4-Nitrobenzenamine	µg/L	25 U	25 U
4-Nitrophenol	µg/L	25 U	25 U

Table 4-52. Results for Groundwater Samples – Semivolatile Organic Constituents (continued)

Location		LL-1 Groundwater (All)	LL-1 Groundwater (All)
Station		LL2mw-059	LL2mw-060
Sample ID		LL1078	LL1079
Customer ID		LL2mw-059-1078-GW	LL2mw-060-1079-GW
Date		10/01/2000	10/01/2000
Filtered		Total	Total
Field Type		Grab	Grab
Analyte	Units		
Acenaphthene	µg/L	10 U	10 U
Acenaphthylene	µg/L	10 U	10 U
Anthracene	µg/L	10 U	10 U
Benz(a)anthracene	µg/L	10 U	10 U
Benzo(a)pyrene	µg/L	10 U	10 U
Benzo(b)fluoranthene	µg/L	10 U	10 U
Benzo(ghi)perylene	µg/L	10 U	10 U
Benzo(k)fluoranthene	µg/L	10 U	10 U
Bis(2-chloroethoxy)methane	µg/L	10 U	10 U
Bis(2-chloroethyl) ether	µg/L	10 U	10 U
Bis(2-chloroisopropyl) ether	µg/L	10 U	10 U
Bis(2-ethylhexyl)phthalate	µg/L	10 U	10 U
Butyl benzyl phthalate	µg/L	10 U	10 U
Carbazole	µg/L	10 U	10 U
Chrysene	µg/L	10 U	10 U
Di-n-butyl phthalate	µg/L	10 U	10 U
Di-n-octylphthalate	µg/L	10 U	10 U
Dibenz(a,h)anthracene	µg/L	10 U	10 U
Dibenzofuran	µg/L	10 U	10 U
Diethyl phthalate	µg/L	10 U	10 U
Dimethyl phthalate	µg/L	10 U	10 U
Fluoranthene	µg/L	10 U	10 U
Fluorene	µg/L	10 U	10 U
Hexachlorobenzene	µg/L	10 U	10 U
Hexachlorobutadiene	µg/L	10 U	10 U
Hexachlorocyclopentadiene	µg/L	10 R	10 R
Hexachloroethane	µg/L	10 U	10 U

Table 4-52. Results for Groundwater Samples – Semivolatile Organic Constituents (continued)

Location Station Sample ID Customer ID Date Filtered Field Type Analyte	Units	LL-1 Groundwater (All) LL2mw-059 LL1078 LL2mw-059-1078-GW 10/01/2000 Total Grab	LL-1 Groundwater (All) LL2mw-060 LL1079 LL2mw-060-1079-GW 10/01/2000 Total Grab
Indeno(1,2,3-cd)pyrene	µg/L	10 U	10 U
Isophorone	µg/L	10 U	10 U
N-Nitroso-di-n-propylamine	µg/L	10 U	10 U
N-Nitrosodiphenylamine	µg/L	10 U	10 U
Naphthalene	µg/L	10 U	10 U
Nitrobenzene	µg/L	10 U	10 U
Pentachlorophenol	µg/L	25 U	25 U
Phenanthrene	µg/L	10 U	10 U
Phenol	µg/L	10 U	10 U
Pyrene	µg/L	10 U	10 U

"=" = detected.
J = estimated.
U = not detected.
UJ = not detected, detection limit estimated.
R = rejected.
Blank fields indicate no analysis for a particular constituent was conducted.

Table 4-53. Results for Groundwater Samples – Volatile Organic Constituents

Location		LL-1 Groundwater (All)	LL-1 Groundwater (All)	LL-1 Groundwater (All)	LL-1 Groundwater (All)	LL-1 Groundwater (All)
Station		LL1mw-064	LL1mw-065	LL1mw-065	LL1mw-067	LL1mw-078
Sample ID		LL1081	LL1082	LL1145	LL1083	LL1084
Customer ID		LL1mw-064-1081-GW	LL1mw-065-1082-GW	LL1mw-065-1145-GW	LL1mw-067-1083-GW	LL1mw-078-1084-GW
Date		10/02/2000	10/02/2000	10/02/2000	10/04/2000	10/03/2000
Filtered		Total	Total	Total	Total	Total
Field Type		Grab	Grab	Field Duplicate	Grab	Grab
Analyte	Units					
1,1,1-Trichloroethane	µg/L	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	µg/L	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	µg/L	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	µg/L	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	µg/L	5 U	5 U	5 U	5 U	5 U
1,2-Dibromoethane	µg/L	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	µg/L	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethene	µg/L	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	µg/L	5 U	5 U	5 U	5 U	5 U
2-Butanone	µg/L	10 U	10 U	10 U	10 U	10 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone	µg/L	10 U	10 U	10 U	10 U	10 U
Acetone	µg/L	10 U	10 U	10 U	10 U	10 U
Benzene	µg/L	5 U	5 U	5 U	5 U	5 U
Bromochloromethane	µg/L	5 U	5 U	5 U	5 U	5 U
Bromodichloromethane	µg/L	5 U	5 U	5 U	5 U	5 U
Bromoform	µg/L	5 U	5 U	5 U	5 U	5 U
Bromomethane	µg/L	10 U	10 U	10 U	10 U	10 U
Carbon disulfide	µg/L	5 U	5 U	5 U	5 U	5 U
Carbon tetrachloride	µg/L	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	µg/L	5 U	5 U	5 U	5 U	5 U
Chloroethane	µg/L	10 U	10 U	10 U	10 U	10 U
Chloroform	µg/L	5 U	5 U	5 U	5 U	5 U
Chloromethane	µg/L	10 U	10 U	10 U	10 U	10 U
Dibromochloromethane	µg/L	5 U	5 U	5 U	5 U	5 U
Dimethylbenzene	µg/L	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	µg/L	5 U	5 U	5 U	5 U	5 U

Table 4-53. Results for Groundwater Samples – Volatile Organic Constituents (continued)

Location Station Sample ID Customer ID Date Filtered Field Type Analyte	Units	LL-1 Groundwater (All) LL1mw-064 LL1081 LL1mw-064-1081-GW 10/02/2000 Total Grab	LL-1 Groundwater (All) LL1mw-065 LL1082 LL1mw-065-1082-GW 10/02/2000 Total Grab	LL-1 Groundwater (All) LL1mw-065 LL1145 LL1mw-065-1145-GW 10/02/2000 Total Field Duplicate	LL-1 Groundwater (All) LL1mw-067 LL1083 LL1mw-067-1083-GW 10/04/2000 Total Grab	LL-1 Groundwater (All) LL1mw-078 LL1084 LL1mw-078-1084-GW 10/03/2000 Total Grab
Methylene chloride	µg/L	2.3 J	5 UJ	5 UJ	2.7 J	5 UJ
Styrene	µg/L	5 U	5 U	5 U	5 U	5 U
Tetrachloroethene	µg/L	5 U	5 U	5 U	5 U	5 U
Toluene	µg/L	5 U	5 U	5 U	5 U	5 U
Trichloroethene	µg/L	5 U	5 U	5 U	5 U	5 U
Vinyl chloride	µg/L	10 U	10 U	10 U	10 U	10 U
cis-1,3-Dichloropropene	µg/L	5 U	5 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	µg/L	5 U	5 U	5 U	5 U	5 U

Table 4-53. Results for Groundwater Samples – Volatile Organic Constituents (continued)

Location		LL-1 Groundwater (All)	LL-1 Groundwater (All)	LL-1 Groundwater (All)	LL-1 Groundwater (All)	LL-1 Groundwater (All)
Station		LL1mw-079	LL1mw-079	LL1mw-079	LL1mw-080	LL1mw-081
Sample ID		LL0700	LL0714	LL1085	LL1086	LL1087
Customer ID		LL1mw-079-0700-GW	LL1mw-079-0714-GW	LL1mw-079-1085-GW	LL1mw-080-1086-GW	LL1mw-081-1087-GW
Date		09/02/1999	09/02/1999	10/03/2000	10/04/2000	10/03/2000
Filtered		Total	Total	Total	Total	Total
Field Type		Grab	Field Duplicate	Grab	Grab	Grab
Analyte	Units					
1,1,1-Trichloroethane	µg/L	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	µg/L	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	µg/L	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	µg/L	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	µg/L	5 U	5 U	5 U	5 U	5 U
1,2-Dibromoethane	µg/L			5 U	5 U	5 U
1,2-Dichloroethane	µg/L	5 UJ	5 UJ	5 U	5 U	5 U
1,2-Dichloroethene	µg/L	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	µg/L	5 U	5 U	5 U	5 U	5 U
2-Butanone	µg/L	10 U	10 U	10 U	10 U	10 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone	µg/L	10 U	10 U	10 U	10 U	10 U
Acetone	µg/L	10 U	10 U	10 U	10 U	10 U
Benzene	µg/L	5 U	5 U	5 U	5 U	5 U
Bromochloromethane	µg/L			5 U	5 U	5 U
Bromodichloromethane	µg/L	5 U	5 U	5 U	5 U	5 U
Bromoform	µg/L	5 U	5 U	5 U	5 U	5 U
Bromomethane	µg/L	10 U	10 U	10 U	10 U	10 U
Carbon disulfide	µg/L	5 U	5 U	5 U	5 U	5 U
Carbon tetrachloride	µg/L	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	µg/L	5 U	5 U	5 U	5 U	5 U
Chloroethane	µg/L	10 UJ	10 UJ	10 U	10 U	10 U
Chloroform	µg/L	1.2 J	1.1 J	5 U	5 U	5 U
Chloromethane	µg/L	10 UJ	10 UJ	10 U	10 U	10 U
Dibromochloromethane	µg/L	5 U	5 U	5 U	5 U	5 U
Dimethylbenzene	µg/L	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	µg/L	5 U	5 U	5 U	5 U	5 U

Table 4-53. Results for Groundwater Samples – Volatile Organic Constituents (continued)

Location		LL-1 Groundwater (All)	LL-1 Groundwater (All)	LL-1 Groundwater (All)	LL-1 Groundwater (All)	LL-1 Groundwater (All)
Station		LL1mw-079	LL1mw-079	LL1mw-079	LL1mw-080	LL1mw-081
Sample ID		LL0700	LL0714	LL1085	LL1086	LL1087
Customer ID		LL1mw-079-0700-GW	LL1mw-079-0714-GW	LL1mw-079-1085-GW	LL1mw-080-1086-GW	LL1mw-081-1087-GW
Date		09/02/1999	09/02/1999	10/03/2000	10/04/2000	10/03/2000
Filtered		Total	Total	Total	Total	Total
Field Type		Grab	Field Duplicate	Grab	Grab	Grab
Analyte	Units					
Methylene chloride	µg/L	5 U	5 U	2.1 J	2.2 J	5 UJ
Styrene	µg/L	5 U	5 U	5 U	5 U	5 U
Tetrachloroethene	µg/L	5 U	5 U	5 U	5 U	5 U
Toluene	µg/L	5 U	5 U	5 U	5 U	0.77 J
Trichloroethene	µg/L	5 U	5 U	5 U	5 U	5 U
Vinyl chloride	µg/L	10 UJ	10 UJ	10 U	10 U	10 U
cis-1,3-Dichloropropene	µg/L	5 U	5 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	µg/L	5 UJ	5 UJ	5 U	5 U	5 U

Table 4-53. Results for Groundwater Samples – Volatile Organic Constituents (continued)

Location Station Sample ID Customer ID Date Filtered Field Type Analyte	Units	LL-1 Groundwater (All) LL1mw-082 LL1088 LL1mw-082-1088-GW 10/03/2000 Total Grab	LL-1 Groundwater (All) LL1mw-083 LL1089 LL1mw-083-1089-GW 10/03/2000 Total Grab	LL-1 Groundwater (All) LL1mw-084 LL1090 LL1mw-084-1090-GW 10/02/2000 Total Grab	LL-1 Groundwater (All) LL1mw-085 LL0712 LL1mw-085-0712-GW 09/03/1999 Total Grab	LL-1 Groundwater (All) LL1mw-085 LL1091 LL1mw-085-1091-GW 10/04/2000 Total Grab
1,1,1-Trichloroethane	µg/L	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	µg/L	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	µg/L	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	µg/L	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	µg/L	5 U	5 U	5 U	5 U	5 U
1,2-Dibromoethane	µg/L	5 U	5 U	5 U		5 U
1,2-Dichloroethane	µg/L	5 U	5 U	5 U	5 UJ	5 U
1,2-Dichloroethene	µg/L	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	µg/L	5 U	5 U	5 U	5 U	5 U
2-Butanone	µg/L	10 U	10 U	10 U	10 U	10 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone	µg/L	10 U	10 U	10 U	10 U	10 U
Acetone	µg/L	10 U	10 U	10 U	10 U	10 U
Benzene	µg/L	5 U	5 U	5 U	5 U	5 U
Bromochloromethane	µg/L	5 U	5 U	5 U		5 U
Bromodichloromethane	µg/L	5 U	5 U	5 U	5 U	5 U
Bromoform	µg/L	5 U	5 U	5 U	5 U	5 U
Bromomethane	µg/L	10 U	10 U	10 U	10 U	10 U
Carbon disulfide	µg/L	5 U	5 U	5 U	5 U	5 U
Carbon tetrachloride	µg/L	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	µg/L	5 U	5 U	5 U	5 U	5 U
Chloroethane	µg/L	10 U	10 U	10 U	10 UJ	10 U
Chloroform	µg/L	5 U	5 U	5 U	5 U	5 U
Chloromethane	µg/L	10 U	10 U	10 U	10 UJ	10 U
Dibromochloromethane	µg/L	5 U	5 U	5 U	5 U	5 U
Dimethylbenzene	µg/L	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	µg/L	5 U	5 U	5 U	5 U	5 U

Table 4-53. Results for Groundwater Samples – Volatile Organic Constituents (continued)

Location Station Sample ID Customer ID Date Filtered Field Type Analyte	Units	LL-1 Groundwater (All) LL1mw-082 LL1088 LL1mw-082-1088-GW 10/03/2000 Total Grab	LL-1 Groundwater (All) LL1mw-083 LL1089 LL1mw-083-1089-GW 10/03/2000 Total Grab	LL-1 Groundwater (All) LL1mw-084 LL1090 LL1mw-084-1090-GW 10/02/2000 Total Grab	LL-1 Groundwater (All) LL1mw-085 LL0712 LL1mw-085-0712-GW 09/03/1999 Total Grab	LL-1 Groundwater (All) LL1mw-085 LL1091 LL1mw-085-1091-GW 10/04/2000 Total Grab
Methylene chloride	µg/L	2.5 J	5 UJ	2.1 J	5 U	2.4 J
Styrene	µg/L	5 U	5 U	5 U	5 U	5 U
Tetrachloroethene	µg/L	5 U	5 U	5 U	5 U	5 U
Toluene	µg/L	5 U	5 U	5 U	5 U	5 U
Trichloroethene	µg/L	5 U	5 U	5 U	5 U	5 U
Vinyl chloride	µg/L	10 U	10 U	10 U	10 UJ	10 U
cis-1,3-Dichloropropene	µg/L	5 U	5 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	µg/L	5 U	5 U	5 U	5 UJ	5 U

Table 4-53. Results for Groundwater Samples – Volatile Organic Constituents (continued)

Location Station Sample ID Customer ID Date Filtered Field Type Analyte	Units	LL-1 Groundwater (All) LL2mw-059 LL1078 LL2mw-059-1078-GW 10/01/2000 Total Grab	LL-1 Groundwater (All) LL2mw-060 LL1079 LL2mw-060-1079-GW 10/01/2000 Total Grab
1,1,1-Trichloroethane	µg/L	5 U	5 U
1,1,2,2-Tetrachloroethane	µg/L	5 U	5 U
1,1,2-Trichloroethane	µg/L	5 U	5 U
1,1-Dichloroethane	µg/L	5 U	5 U
1,1-Dichloroethene	µg/L	5 U	5 U
1,2-Dibromoethane	µg/L	5 U	5 U
1,2-Dichloroethane	µg/L	5 U	5 U
1,2-Dichloroethene	µg/L	5 U	5 U
1,2-Dichloropropane	µg/L	5 U	5 U
2-Butanone	µg/L	10 U	10 U
2-Hexanone	µg/L	10 U	10 U
4-Methyl-2-pentanone	µg/L	10 U	10 U
Acetone	µg/L	10 U	10 U
Benzene	µg/L	5 U	5 U
Bromochloromethane	µg/L	5 U	5 U
Bromodichloromethane	µg/L	5 U	5 U
Bromoform	µg/L	5 U	5 U
Bromomethane	µg/L	10 U	10 U
Carbon disulfide	µg/L	5 U	5 U
Carbon tetrachloride	µg/L	5 U	5 U
Chlorobenzene	µg/L	5 U	5 U
Chloroethane	µg/L	10 U	10 U
Chloroform	µg/L	5 U	5 U
Chloromethane	µg/L	10 U	10 U
Dibromochloromethane	µg/L	5 U	5 U
Dimethylbenzene	µg/L	5 U	5 U
Ethylbenzene	µg/L	5 U	5 U

Table 4-53. Results for Groundwater Samples – Volatile Organic Constituents (continued)

Location		LL-1 Groundwater (All)	LL-1 Groundwater (All)
Station		LL2mw-059	LL2mw-060
Sample ID		LL1078	LL1079
Customer ID		LL2mw-059-1078-GW	LL2mw-060-1079-GW
Date		10/01/2000	10/01/2000
Filtered		Total	Total
Field Type		Grab	Grab
Analyte	Units		
Methylene chloride	µg/L	2.3 J	2.5 J
Styrene	µg/L	5 U	5 U
Tetrachloroethene	µg/L	5 U	5 U
Toluene	µg/L	5 U	1 J
Trichloroethene	µg/L	5 U	5 U
Vinyl chloride	µg/L	10 U	10 U
cis-1,3-Dichloropropene	µg/L	5 U	5 U
trans-1,3-Dichloropropene	µg/L	5 U	5 U

"=" = detected.
J = estimated.
U = not detected.
UJ = not detected, detection limit estimated.
R = rejected.
Blank fields indicate no analysis for a particular constituent was conducted.