

# VOLUME I

## CONCEPTUAL SITE MODEL INFORMAL TECHNICAL INFORMATION REPORT (ITIR)

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# I. CONCEPTUAL SITE MODEL

## INTRODUCTION

**A** conceptual site model for Air Force Plant (AFP) 59 has been developed to integrate the analytical and field data collected during the Remedial Investigation (RI). The RI was conducted in two phases: a Reconnaissance Survey in July 1994 and further RI sampling between October and December 1994. The conceptual site model identifies potential migration pathways and receptors, and serves as a basis for the human health risk assessment. This Conceptual Site Model Informal Technical Information Report (ITIR) presents the data used to develop the current AFP 59 conceptual site model. The five elements of a conceptual site model are described below.

- Contaminant Identification and Background Assessment
- Source Characterization
- Delineation of Potential Migration Pathways
- Receptor Identification and Characterization
- Contaminant Concentrations at Receptors.

In order to determine site contaminants, background concentrations must be established and then compared to accurate site analytical data. Section 1.0 of this Conceptual Site Model ITIR presents the RI sampling locations and summarizes analytical results for the both site and background data collected in each media (soil, sediment, surface water, and groundwater). The methodology for determining contaminants detected at concentrations exceeding background is presented, and these site contaminants are discussed. Site maps illustrating the nature and extent of contamination are also included.

Characterization of potential source areas is provided in Section 2.0 of this Conceptual Site Model ITIR. Three areas of soil contamination have been identified. Each of these three localized areas of soil contamination is considered an individual source area. For groundwater the close proximity of potential contaminant sources and the similar contaminant types precludes the distinction of discrete groundwater contaminant plumes which developed as a result of releases from the distinct source areas. Groundwater contamination is therefore addressed as a single zone. However, the shallow and deep zones of the aquifer are considered separately.

Potential migration pathways through soil, groundwater, surface water, and air are discussed in Section 3.0 of this Conceptual Site Model ITIR. Existing information from previous investigations on the subsurface lithology and hydrogeology has been combined with data collected during the RI field effort to describe potential subsurface migration of contaminants. These data were also used to assess the surface water and air migration pathways at AFP 59.

Section 4.0 of this Conceptual Site Model ITIR identifies current and future human receptors along complete migration pathways. Exposure pathways for each receptor are also identified. The contaminant concentrations at receptors (the final component of a conceptual site model) are provided in Section 2.0 of the accompanying Risk Assessment ITIR. Since the presentation of these concentrations is necessary in the Risk Assessment, this data is included only in the Risk Assessment ITIR to avoid repetition.

# SECTION 1.0

## IDENTIFICATION OF CONTAMINANTS AND BACKGROUND ASSESSMENT

**T**his section summarizes the data collection activities completed during the RI field effort. Concentrations of background and site contaminants are presented, and site data are compared to background to determine contaminants present at concentrations exceeding naturally occurring, background levels.

### 1.1 Data Summary

During the RI at AFP 59, soil, groundwater, surface water, and sediment samples were collected for chemical analysis. The number of samples collected and the analyses performed are summarized below by media. Figures 1-1 and 1-2 present the locations of the samples collected during the RI, and Figure 1-3 presents the locations of samples from previous investigations conducted by Martin Marietta at AFP 59. Tables 1-1 through 1-21 summarize the analytical results of the samples collected by EARTH TECH during the RI. The tables list only those analytes that were detected in one or more samples. Complete analytical results are provided in the Analytical Data ITIR.

**Soil.** During the July 1994 phase of the RI at AFP 59, subsurface soil samples were collected using direct push methods to determine background concentrations and characterize site soils. Fifteen direct push soil samples and one replicate sample were analyzed for volatile organic compounds (VOCs) (SW8260), and eight soil samples and one replicate sample were analyzed for metals (SW6010). Additional direct push samples were collected during the first phase for screening purposes and to determine optimum future sampling locations; these data are not used for site characterization since the data are VOC headspace results. The direct push sampling program is described in detail in the "Reconnaissance Survey Summary Report" (EARTH TECH, August 1994). Figure 1-1 shows the locations of the direct push samples used for site characterization. Soil samples collected from DP18 and DP19 were designated as background samples.

In October 1994, during a second phase of the RI at AFP 59, a total of 12 soil borings were drilled from which subsurface soil samples were collected. Subsurface soil samples were also collected during the drilling of four boreholes which were then completed as shallow monitoring

wells. Forty-eight subsurface soil samples and five replicates were collected from the soil borings and monitoring well boreholes. Soil boring and monitoring well locations are shown in Figure 1-2. Soil samples collected from monitoring well SW10 were designated as background samples. All soil samples were analyzed for VOCs (SW8260), semi-volatile organic compounds (SVOCs) (SW8270), pesticides/polychlorinated biphenyls (PCBs) (SW8080), ICP metals screen (SW6010), arsenic (SW7060), lead (SW7421), mercury (SW7471), selenium (SW7740), thallium (SW7841), cyanide (SW9012), and total organic carbon (TOC) (SW9060). Tables 1-1 through 1-6 summarize the analytical results for chemical analyses of soil samples at AFP 59.

Soil analytical data collected by Martin Marietta between July 1992 and November 1994 in the vicinity of the plating room was also used for site characterization. Figure 1-3 shows the locations of these soil samples. During these studies, soil samples were collected from 25 locations in the plating room from 0.5 to 1.0 feet bgs. At two of these locations, additional soil samples were collected from 2 to 4 feet bgs (locations 001/PRSB1 and 025/PRSB25). Nine samples were collected outside the plating room near the settling and spent plating waste tanks. Table 1-22 summarizes the analytical data for these sampling locations. The samples were analyzed by various analytical methods which differed from the methods used in analyzing Earth Tech data. None of the data collected by Martin Marietta were validated by EARTH TECH.

**Groundwater.** A total of nine groundwater monitoring wells were installed in October and November 1994. In December 1994 a round of groundwater samples were collected from all new and existing monitoring wells at AFP 59. Twenty-six groundwater samples and three duplicates were collected and analyzed for VOCs (SW8260), SVOCs (SW8270), pesticides/PCBs (SW8080), ICP metals screen (SW6010), arsenic (SW7060), lead (SW7421), mercury (SW7470), selenium (SW7740), thallium (SW7841), cyanide (SW9012), and hardness (E130.1). All groundwater samples for metals analyses were unfiltered and therefore represent total metals concentrations. Groundwater samples from monitoring wells SW1, SW10, DW1, and DW10 were designated as background samples. Figure 1-2 shows the locations of the sampled monitoring wells. Tables 1-12 through 1-16 summarize the analytical results for chemical analyses of groundwater samples at AFP 59.

**Surface Water and Sediment.** Surface water and sediment sample pairs were collected at each of five locations from Little Choconut Creek. Three sample pairs were collected at locations downstream from outfalls 001, 002, and 003, and two samples were collected upstream from the plant's outfalls. The sample pairs collected upstream from the outfalls (CR05 and CR06) were designated as background samples. One replicate sediment sample and one duplicate surface water sample were also collected and analyzed. Samples were analyzed for VOCs (SW8260), SVOCs (SW8270), pesticides/PCBs (SW8080), ICP metals screen (SW6010), arsenic (SW7060), lead (SW7421), mercury (SW7470/SW7471), selenium (SW7740), thallium (SW7841), and cyanide (SW9012). In addition, all sediment samples were analyzed for TOC (SW9060) and surface water samples were analyzed for hardness (E130.1). Figure 1-2 shows the five surface water and sediment sampling locations. Tables 1-7 through 1-11 and Tables 1-17 through 1-21 summarize the analytical results for chemical analyses of sediment and surface water samples, respectively.

## 1.2 Background Results

The following sections discuss the soil, groundwater, sediment, and surface water background results for AFP 59. Table 1-23 lists the background samples and the analyses completed.

### 1.2.1 Background Sampling and Analysis

**Soil.** Background subsurface soil samples were collected from three locations on AFP 59 property that were believed to be unaffected by past plant activities. Eight subsurface soil samples were collected by direct push methods from 0 to 9 feet below ground surface (bgs) at two locations (DP18 and DP19) along the northeastern boundary of the property (see Figure 1-1). Four of these soil samples were analyzed for metals (SW6010, SW7060, SW7421, SW7470, SW7740, and SW7841), and four were analyzed for VOCs (SW8260). Three other soil samples were collected at depths ranging from 1 to 12 feet bgs from monitoring well borehole SW10. Well SW10 is located along the northeastern boundary of the property (see Figure 1-2). Background soil samples from monitoring well borehole SW10 were analyzed by the same methods as site samples: VOCs (SW8260), SVOCs (SW8270), pesticides/PCBs (SW8080), ICP metals screen (SW6010), arsenic (SW7060), lead (SW7421), mercury (SW7471), selenium (SW7740), thallium (SW7841), cyanide (SW9012), and TOC (SW9060). A summary of organic and inorganic analytical data for the background soil samples is provided in Tables 1-24 and 1-25, respectively.

**Groundwater.** Four monitoring wells which have been determined to be hydraulically upgradient of past plant activities were sampled to characterize background groundwater quality. These wells include two deep wells (DW1 and DW10) and two shallow wells (SW1 and SW10) (see Figure 1-2). All groundwater samples were collected in early December 1994. The groundwater samples were analyzed for VOCs (SW8260), SVOCs (SW8270), pesticides/PCBs (SW8080), ICP metals screen (SW6010), arsenic (SW7060), lead (SW7421), mercury (SW7470), selenium (SW7740), thallium (SW7841), cyanide (SW9012), and hardness (E130.1). Table 1-26 summarizes the analytical results for chemical analyses of background groundwater samples at AFP 59.

**Surface Water and Sediment.** Two surface water and two sediment sample pairs were collected from Little Choconut Creek at locations upstream from the AFP 59 outfalls. These samples are in locations which represent background conditions. Sample pairs with the designation CR06 were collected upstream from the outfalls, along the eastern boundary of the plant (see Figure 1-2). Sample pairs with the designation CR05 were collected upstream of the facility, north of Main Street (see Figure 1-2). These sample pairs were analyzed for VOCs (SW8260), SVOCs (SW8270), pesticides/PCBs (SW8080), ICP metals screen (SW6010), arsenic (SW7060), lead (SW7421), mercury (SW7470/SW7471), selenium (SW7740), thallium (SW7841), and cyanide (SW9012). Surface water samples were also analyzed for hardness (E130.1), and sediment samples were also analyzed for TOC (SW9060). Tables 1-27 and 1-28 summarize the analytical results for the background surface water and sediment samples, respectively.

### **1.2.2 Background Analytical Results**

**Soil.** No VOCs were detected in any of the background soil samples. SVOCs were only detected in the sample collected from 1 to 3 feet below ground surface (bgs) at soil boring SW10 at concentrations ranging from 0.095 mg/kg to 10 mg/kg. Pesticides were also detected at SW10 from 1 to 3 feet bgs. DDT and endrin were also detected in trace amounts at SW10 from 10 to 12 feet bgs at concentrations of 0.0055 mg/kg and 0.0021 mg/kg, respectively. Due to the presence of organic contaminants in the soil samples from SW10, this location will not be used to characterize background conditions. Therefore only the background soil samples collected during the direct push sampling will be used in the comparison to site samples.

All organic analytes detected in site soil samples are considered to be present above background concentrations since organics are not presumed to be naturally occurring. For inorganics, however, a comparison between site and background concentrations is necessary to determine which analytes are present above background concentrations. If an inorganic analyte was not detected in the background samples but was detected in site samples, statistical comparison tests were not performed and the compound was considered to be present above background. For all other inorganics detected, either the Student's t-test or the Wilcoxon Rank Sum test were used to compare site concentrations to background concentrations.

The Student's t-test is a parametric test which assumes the data being compared are normally distributed. Therefore, the Student's t-test was applied only when the site inorganic concentrations and the background inorganic concentrations were both normally distributed. The Wilcoxon Rank Sum test is a non-parametric test which does not assume a distributional model for the data being compared. As such, this test was performed only when either the site inorganic concentrations or the background concentrations were lognormally or nonnormally distributed.

**Groundwater.** Cis-1,2-dichloroethene was detected at a concentration of 1.8  $\mu\text{g/L}$  in groundwater from monitoring well DW1. Low concentrations of VOCs were also detected in DW10 at concentrations ranging from 0.35  $\mu\text{g/L}$  to 1.5  $\mu\text{g/L}$ . Bis(2-ethylhexyl)phthalate was also detected in groundwater from DW10 at a concentration of 1.7  $\mu\text{g/L}$ . At SW10, VOCs detected include: 1,1-dichloroethane (DCA) (2.2  $\mu\text{g/L}$ ), 1,1-dichloroethene (DCE) (2.0  $\mu\text{g/L}$ ), 1,1,1-trichloroethane (TCA) (10  $\mu\text{g/L}$ ), and trichloroethene (TCE) (21  $\mu\text{g/L}$ ). Pesticides were detected in groundwater from all the background wells at concentrations ranging from 0.0005  $\mu\text{g/L}$  to 0.028  $\mu\text{g/L}$ . Due to the elevated concentrations of TCE and TCA in the groundwater sample from SW10, the sample will not be used to characterize background groundwater quality; only groundwater analytical results from SW1, DW1, and DW10 will be considered representative of background.

All organic analytes detected in site groundwater samples are considered to be present above background concentrations since organics are not presumed to be naturally occurring. For inorganics, however, a comparison between site and background concentrations is necessary to determine which analytes are present above background concentrations. If an inorganic analyte was not detected in the background samples but was detected in site samples, the analyte was



considered to be present above background concentrations. For all other inorganics, the maximum background concentrations were compared to maximum site concentrations. If the site maximum exceeded the background maximum, the analyte was considered to be present above naturally occurring, background concentrations. The Student's t-test and the Wilcoxon Rank Sum test could not be used for the background groundwater comparison since a minimum of four background samples is required to complete these tests.

**Surface Water and Sediment.** No VOCs were detected in background surface water or sediment samples. No SVOCs were detected in the background surface water, and only trace amounts of SVOCs were detected in background sediment samples at concentrations ranging from 0.045 mg/kg to 0.17 mg/kg (see Table 1-28). Pesticides were detected in both surface water and sediment background samples, and PCB-1254 was detected in sediment sample CR05 at 0.16 mg/kg (see Tables 1-27 and 1-28).

All organic analytes detected in site samples are considered to be present above background concentrations surface water and sediment since organics are not presumed to be naturally occurring. For inorganics, however, a comparison between site and background concentrations is necessary to determine which analytes are present above background concentrations. If an inorganic analyte was not detected in the background samples but was detected in site samples, the analyte was considered to be present above background concentrations. For all other inorganics, the maximum inorganic background concentrations were compared to the maximum inorganic concentrations from the three downgradient creek locations. If the site maximum exceeded the background maximum, the analyte was considered to be present above naturally occurring, background concentrations. The Student's t-test and the Wilcoxon Rank Sum test could not be used for the background sediment and surface water comparison since a minimum of four background samples is required to complete these tests.

### 1.3 Site Contaminants

This section discusses site contaminants by media.

#### 1.3.1 Soil

Analytical results for soil samples collected during the RI are summarized in Tables 1-1 through 1-6. Figures 1-4, 1-5, and 1-6 present concentrations of analytes in soil detected above background for VOCs, SVOCs, and pesticides/PCBs, respectively. These figures illustrate that there are three distinct areas where soil contaminants were detected: the waste oil tank area, the plating room area, and the reservoir area. Since the types of contaminants identified at each of these areas are also distinct, the results for each area are discussed separately below.

**Plating Room.** A total of 18 soil samples associated with the plating room were collected and analyzed during the RI. Twelve samples were from boreholes BH01, BH02, BH03, and BH04 and six samples were from direct push locations DP28 and DP29 (see Figure 1-2). Existing soil sample results from the plating room were also provided by Martin Marietta. These results were included in the evaluation of soil contamination so that a duplication of effort was avoided during

the RI. Figure 1-3 shows the locations of these samples and Table 1-22 summarizes the analytical data.

As discussed in Section 1.2.2, all organic compounds detected in soil are considered above background concentrations. Table 1-29 summarizes all organics detected in one or more soil samples, the number of samples above the detection limit, the minimum and the maximum concentration detected, and the location of the maximum concentration.

TCE was detected in 17 of 49 soil samples, with a maximum concentration of 0.071 mg/kg at location 005. TCA and tetrachloroethene (PCE) were each detected in only one soil sample at concentrations of 0.0087 mg/kg and 0.0012 mg/kg, respectively. Acetone was detected in 30 of 34 soil samples collected by Martin Marietta. SVOCs were detected at BH01 (see Figure 1-5). Bis(2-ethylhexyl)phthalate was detected at four locations with a maximum concentration of 0.471 mg/kg. The most frequently detected pesticides were aldrin, dieldrin, endosulfan sulfate, methoxychlor, and 4,4'-DDT, with maximum concentrations of 0.000044 mg/kg, 0.0002 mg/kg, 0.0016 mg/kg, 0.013 mg/kg and 0.0006 mg/kg, respectively.

The methodology for determining whether site inorganic soil concentrations exceed background inorganic concentrations was discussed in Section 1.2.2. Table 1-30 lists inorganic compounds which exceed background concentrations in the plating room area and the comparison method used. Cadmium, calcium, cyanide, mercury, and molybdenum all exceeded background. Cadmium, cyanide, mercury, and molybdenum were detected in the plating room soil but not in background soil. Calcium was detected in almost all plating room samples, ranging in concentration from 220 mg/kg to a maximum at 003 of 154,000 mg/kg. Cadmium was detected in 10 samples with a maximum concentration of 84.3 mg/kg at 007. Cyanide was detected in four samples with the highest concentration of 2.12 mg/kg at 008. Mercury was detected in three samples, mostly in shallow soil from 0 to 2 feet bgs. The highest concentration of mercury was at DP29 with a concentration of 0.18 mg/kg. Molybdenum was detected in DP28 from 0 to 2 feet bgs at 4,060 mg/kg.

**Waste Oil Tanks.** A total of 18 soil samples associated with the waste oil tanks were collected and analyzed during the RI. Thirteen samples were from boreholes BH05, BH10, BH11, and BH12; two samples were from direct push locations DP17 and DP36; and three samples were from monitoring well borehole SW11.

As discussed in Section 1.2.2, all organic compounds detected in soil were considered above background concentrations. Table 1-31 summarizes all organics detected in one or more soil samples, the number of samples above the detection limit, the minimum and the maximum concentration detected, and the location of the maximum concentration.

Several VOCs were detected in soil samples associated with the waste oil tank area, with maximum concentrations generally detected between 5 to 12 feet bgs. The most frequently detected analyte was cis-1,2-dichloroethene. This compound was detected in 7 of 18 samples with a maximum concentration of 0.11 mg/kg at 59BH12SO2 (5 to 7 feet bgs). Petroleum hydrocarbon compounds detected in the vicinity of the waste oil tanks include: toluene,

ethylbenzene, xylenes, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, isopropylbenzene, n-butylbenzene, s-propylbenzene, p-cymene, and sec-butylbenzene.

Most SVOCs detected near the former waste oil tanks were located at 59BH10SO2 (5 to 7 feet bgs) (see Figure 1-5). Compounds which were detected only at this location include 2,4-dinitrotoluene, acenaphthene, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, chrysene, dibenz(a,h)anthracene, dibenzofuran, fluoranthene, fluorene, indeno(1,2,3-cd)pyrene, and pyrene. The two most frequently detected SVOCs were 2-methylnaphthalene and phenanthrene, with maximum concentrations of 0.60 mg/kg and 2.9 mg/kg, respectively.

Endrin aldehyde was the most frequently detected pesticide (8 of 16 samples) near the former waste oil tanks, with concentrations ranging from 0.0003 mg/kg to 0.043 mg/kg. Other pesticides detected in more than 30 percent of the samples include beta endosulfan, delta BHC, endosulfan sulfate, endrin, methoxychlor, and 4,4'-DDE. PCB-1254 (0.17 mg/kg) and PCB-1260 (0.15 mg/kg) were detected at BH11 from 3 to 5 feet bgs and SW11 from 12 to 14 feet bgs, respectively.

The determination of whether site soil samples exceeded inorganic background was discussed in Section 1.2.2. Table 1-32 lists the inorganic compounds detected in soil samples from the waste oil tank area which exceeded background concentrations and the comparison method used. Barium, mercury, and molybdenum were the only inorganics which were detected at concentrations exceeding background. Mercury and molybdenum were detected in the site soils but not in background. Mercury was detected in only one sample at BH05 from 10 to 12 feet bgs at a concentration of 0.12 mg/kg. Molybdenum was detected in seven samples with concentrations ranging from 11.8 mg/kg to 18.7 mg/kg at depths of 3 to 12 feet bgs. Molybdenum was detected in all samples from BH10 and BH11 with the maximum concentration reported at BH10 from 5 to 7 feet bgs. Barium was detected in 16 of 18 samples with concentrations ranging from 32.7 mg/kg to 93.7 mg/kg. The maximum concentration was detected at BH05 from 5 to 7 feet bgs.

**Reservoir Area.** A total of 22 soil samples were collected and analyzed in the general vicinity of the reservoir during the RI. Thirteen samples were from boreholes BH06, BH07, BH08, and BH09; five samples were from direct push locations DP23, DP24, DP26, and DP32; and four samples were from monitoring well borehole SW13. Figures 1-1 and 1-2 show the sample locations for the RI.

As discussed in Section 1.2.2, all organic compounds detected in soil were considered above background concentrations. Table 1-33 summarizes all organics detected in one or more soil samples, the number of samples above the detection limit, the minimum and the maximum concentration detected, and the location of the maximum concentration.

TCA (0.0030 mg/kg) and TCE (0.070 mg/kg) were the only VOCs detected in reservoir area soil samples (see Figure 1-4). TCA was only detected in sample 59BH09SO2 (5 to 7 feet bgs) and TCE was detected in 7 of 22 samples with a maximum concentration of 0.07 mg/kg at BH09

from 5 to 7 feet bgs. SVOCs were detected from 1 to 7 feet bgs at BH07 (see Figure 1-5). Benzo(a)anthracene, fluoranthene, and pyrene were detected most frequently (41.2%) with maximum concentrations of 0.50 mg/kg, 0.94 mg/kg, and 0.80 mg/kg, respectively.

Several pesticides were detected from soil samples collected near the reservoir (see Figure 1-6). The pesticides detected most frequently were alpha endosulfan (71.4%), endrin aldehyde (70.6%), 4,4'-DDD (70.6%), 4,4'-DDT (70.6%), dieldrin (66.7%), and endosulfan sulfate (64.7%). Pesticides ranged in concentration from 0.000029 mg/kg (alpha BHC) to 0.024 mg/kg (methoxychlor). PCB-1260 was detected in two samples, with a maximum concentration of 0.079 mg/kg at BH07 from 5 to 7 feet bgs.

The methodology for determining whether site soil samples exceed inorganic background concentrations was discussed in Section 1.2.2. Table 1-34 lists the inorganic compounds in soil samples collected near the reservoir which exceeded background concentrations and the comparison method used. Calcium, copper, mercury, molybdenum, selenium, and zinc all exceeded background concentrations. Calcium, copper, and zinc were detected in 17 of 22 samples, with maximum concentrations of 68,700 mg/kg, 157 mg/kg, and 221 mg/kg, respectively. Mercury was detected in three samples from 5 to 7 feet bgs at boreholes BH06, BH07, and BH09; the concentrations ranged from 0.11 mg/kg to 0.40 mg/kg. Molybdenum was detected in nine samples at all sampling depths ranging in concentration from 12.1 mg/kg to 22.0 mg/kg. Selenium was detected at BH09 from 5 to 7 feet bgs at a concentration of 0.56 mg/kg.

### **1.3.2 Groundwater**

The analytical results for groundwater samples are summarized in Tables 1-12 through 1-16. Thirteen monitoring well pairs have been installed at AFP 59 to monitor the shallow and deep zones of the aquifer. The analytical results for groundwater samples from the shallow and deep wells are discussed separately below. At two locations, intermediate-depth monitoring wells have been installed; these analytical results will be discussed with the shallow well data.

**Shallow Zone of Aquifer.** VOCs detected in groundwater are illustrated in Figure 1-7. Table 1-35 summarizes all organics and inorganics detected in one or more groundwater sample from the shallow zone; the number of samples above the detection limit, the minimum and maximum concentrations detected, and the location of the maximum concentration are also provided. Chlorinated hydrocarbons were detected across the site in the shallow zone of the aquifer. The maximum concentrations were generally detected at SW4 and SW7, along the south-central edge of the plant and downgradient of the plating room area. At SW4, the following maximum concentrations were detected: TCE at 370  $\mu\text{g/L}$ ; TCA at 20  $\mu\text{g/L}$ ; 1,1-DCE at 2.1  $\mu\text{g/L}$ ; 1,2,4-trichlorobenzene at 2.7  $\mu\text{g/L}$ ; and trichlorofluoromethane at 2.8  $\mu\text{g/L}$ . The following maximum concentrations were detected at SW7: cis-1,2-DCE at 150  $\mu\text{g/L}$ ; vinyl chloride at 6.2  $\mu\text{g/L}$ ; DCA at 33  $\mu\text{g/L}$ ; trans-1,2-DCE at 0.30  $\mu\text{g/L}$ ; carbon tetrachloride at 0.6  $\mu\text{g/L}$ ; and chloroethane at 4.2  $\mu\text{g/L}$ . The concentrations of chlorinated hydrocarbons decrease downgradient of these locations, along the western border of the plant. Maximum concentrations of TCE and TCA along the western border are 2.4  $\mu\text{g/L}$  at SW9 and 2.3  $\mu\text{g/L}$  at SW6,

respectively. The chlorinated hydrocarbons most frequently detected in the shallow zone were TCA and its breakdown products (1,1-DCA, cis-1,2-DCE, 1,1-DCE, vinyl chloride, and chloroethane) and TCE and its breakdown products (cis-1,2-DCE, trans-1,2-DCE, 1,1-DCE, vinyl chloride, and chloroethane).

Petroleum hydrocarbon compounds were detected in the groundwater sample collected at SW11, near the former waste oil tanks (see Figure 1-7). Toluene (1.3  $\mu\text{g/L}$ ), ethylbenzene (0.68  $\mu\text{g/L}$ ), m-xylenes (2.7  $\mu\text{g/L}$ ), o-xylenes (4.2  $\mu\text{g/L}$ ), 1,2,4-trimethylbenzene (15  $\mu\text{g/L}$ ), 1,3,5-trimethylbenzene (36  $\mu\text{g/L}$ ), isopropylbenzene (1.0  $\mu\text{g/L}$ ), and n-propylbenzene (0.90  $\mu\text{g/L}$ ) were detected at maximum concentrations at SW11.

SVOCs detected in groundwater samples from the shallow and intermediate monitoring wells include phenol (3.0  $\mu\text{g/L}$  at IW9), bis(2-ethylhexyl)phthalate (1.5  $\mu\text{g/L}$  at SW12), and di-n-butylphthalate (1.6  $\mu\text{g/L}$  at SW6). Pesticides were detected at concentrations less than the practical quantitation limit (PQL) in all of the shallow and intermediate monitoring wells. Delta BHC was detected above the PQL at SW3, SW6, SW9, and SW12, with a maximum concentration of 0.0070  $\mu\text{g/L}$  at SW3. Methoxychlor was also detected above the PQL in one sample (IW13) at a concentration of 0.12  $\mu\text{g/L}$ .

The methodology for determining which inorganic analytes in the shallow zone of the aquifer were detected above background concentrations is presented in Section 1.2.2. Since data were available from only one background monitoring well in the shallow zone, numerous inorganics across the site were identified as exceeding background concentrations (see Table 1-36). Aluminum, barium, calcium, copper, iron, magnesium, manganese, potassium, and zinc were detected in 100 percent of the shallow groundwater samples. Arsenic and lead were also detected frequently, with maximum concentrations of 10.5  $\mu\text{g/L}$  and 79.6  $\mu\text{g/L}$ , respectively. Maximum concentrations were detected across the site and do not correlate to past site activities.

**Deep Zone of Aquifer.** VOC concentrations detected in groundwater samples from the deep monitoring wells were consistently lower than VOC concentrations detected in the shallow monitoring wells (see Figure 1-7). Table 1-37 summarizes all organics and inorganics detected in one or more groundwater sample from the deep zone; the number of samples above the detection limit, the minimum and maximum concentrations detected, and the location of the maximum concentration are also provided. TCA (1.2  $\mu\text{g/L}$ ), DCA (2.4  $\mu\text{g/L}$ ), and TCE (4.0  $\mu\text{g/L}$ ) were all detected at maximum concentrations in the groundwater sample from the onsite deep production well (DPW). Cis-1,2-DCE was detected at a maximum concentration of 36  $\mu\text{g/L}$  at DW3. All other VOCs in the deep zone of the aquifer were detected at concentrations less than 1  $\mu\text{g/L}$ .

Bis(2-ethylhexyl)phthalate was the only SVOC detected in groundwater samples from the deep wells, with a maximum concentration of 5.9  $\mu\text{g/L}$  at DW11. Trace concentrations of pesticides (less than the PQL) were detected in groundwater samples from all the deep monitoring wells. Delta BHC was detected at DW3, DW6, DW8, DW9, and DW13, with a maximum concentration of 0.011 at DW6. Methoxychlor and 4,4'-DDE were both detected above the PQL

in the groundwater sample from DW12 at concentrations of 0.090  $\mu\text{g/L}$  and 0.15  $\mu\text{g/L}$ , respectively.

Section 1.2.2 presents the methodology used for determining which inorganics detected in the deep zone of the aquifer exceeded background concentrations. Table 1-38 summarizes the inorganics detected above background in the deep zone of the aquifer. Inorganics were detected above background in the deep zone across the site. Aluminum, barium, calcium, magnesium, manganese, potassium, and zinc were detected in 100 percent of the samples. Iron and lead were also detected frequently with maximum concentrations of 4,460  $\mu\text{g/L}$  and 6.0  $\mu\text{g/L}$ , respectively.

### **1.3.3 Sediment**

Analytical results for sediment samples collected during the RI are summarized in Tables 1-7 through 1-11. A total of four site sediment samples, including one replicate, were collected from three locations: CR01, CR02, and CR04. Table 1-39 summarizes organic contaminants detected in sediments, the minimum and maximum concentrations detected, the number of detections, and the location of the maximum detection. Table 1-40 lists the site inorganic compounds which exceeded background and the comparison method used.

Naphthalene was detected in the sediment samples with a maximum concentration of 0.21 mg/kg at CR02. Fluoranthene and pyrene were detected in all site samples with maximum concentrations of 1.9 mg/kg and 1.4 mg/kg, respectively, at location CR02. Other SVOCs detected either frequently or at elevated concentrations were benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, chrysene, and phenanthrene. No PCBs were detected in site sediment samples. Pesticides detected in three or more site samples include aldrin, alpha endosulfan, endosulfan sulfate, and methoxychlor, with maximum concentrations of 0.0012 mg/kg, 0.0028 mg/kg, 0.0011 mg/kg, and 0.019 mg/kg, respectively. Maximum concentrations of pesticides were detected at CR04 and maximum concentrations of SVOCs were detected primarily at CR02.

Site sediment samples exceeded background for almost all inorganic analytes. Only calcium and manganese did not exceed background. Mercury and silver exceeded background because they were not detected in background sediment samples. Mercury was detected at CR04 in both the sample and its replicate at concentrations of 0.22 mg/kg and 0.17 mg/kg, respectively. Silver was only detected at CR04 at 0.59 mg/kg. Cobalt, chromium, iron, and arsenic were detected above maximum background sediment concentrations in all site samples. The maximum concentration of lead was detected at CR04 in the sample and its replicate, with concentrations of 55.5 mg/kg and 54.1 mg/kg, respectively. Most inorganics detected at location CR04 exceeded background (17 of 19 analytes).

### **1.3.4 Surface Water**

Analytical results for surface water samples collected during the RI are summarized in Tables 1-17 through 1-21. A total of four site surface water samples, including one duplicate, were

collected from three locations: CR01, CR02, and CR04. Table 1-41 summarizes organic contaminants detected in surface water, the minimum and maximum concentrations detected, the number of detections, and the location of the maximum detection. Table 1-42 lists the site inorganic compounds which exceeded background and the comparison method used.

VOCs detected in surface water include bromodichloromethane, bromoform, chloroform, dibromochloromethane, and dichlorodifluoromethane; all of these VOCs were detected at CR02 with concentrations less than 2  $\mu\text{g/L}$ . No PCBs were detected in surface water. Pesticides detected include delta BHC, endosulfan sulfate, endrin, gamma BHC, heptachlor epoxide, and 4,4'-DDD, with maximum concentrations of 0.0025  $\mu\text{g/L}$ , 0.012  $\mu\text{g/L}$ , 0.0031  $\mu\text{g/L}$ , 0.013  $\mu\text{g/L}$ , 0.0049  $\mu\text{g/L}$ , and 0.018  $\mu\text{g/L}$ , respectively. Bis(2-ethylhexyl)phthalate was detected at CR04 at a concentration of 3.0  $\mu\text{g/L}$ . No other SVOCs were detected in surface water.

Inorganic analytes detected above background in site surface water samples include arsenic, barium, calcium, chromium, copper, iron, lead, magnesium, manganese, sodium, and zinc. Chromium, copper, and lead exceeded background because they were not detected in surface water background samples. Copper, zinc, and lead were only detected at CR02, with concentrations of 13.3  $\mu\text{g/L}$ , 29.9  $\mu\text{g/L}$ , and 3.2  $\mu\text{g/L}$ , respectively. Barium, calcium, and magnesium were detected above background in all site surface water samples. Chromium was only detected at CR04, with a maximum concentration of 6.5  $\mu\text{g/L}$ .

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MAIN STREET

# AFP 59 MANUFACTURING BUILDING

Office Building

Former Underground Storage Tank

Transformer Area

WV II Oil/Water Separator Former Waste Oil Tanks

Settling/Storage Tanks

Plating Room

Drum Storage Area

Special Programs Facility

Range Building

JP4 Fuel Line

Reservoir

Little Choconut Creek

Avon Street

SW1  
DP19  
DW1

SW10  
DW10  
DP18

DP36  
DP17  
DW11  
SW11

SW8  
DW8

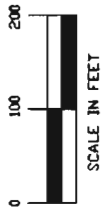
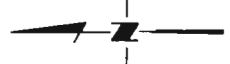
SW4  
DW4  
DP28

SW2  
DW2

SW13  
DW13  
DP23  
DP24

SW3  
DW3

DP26  
DW9  
SW9



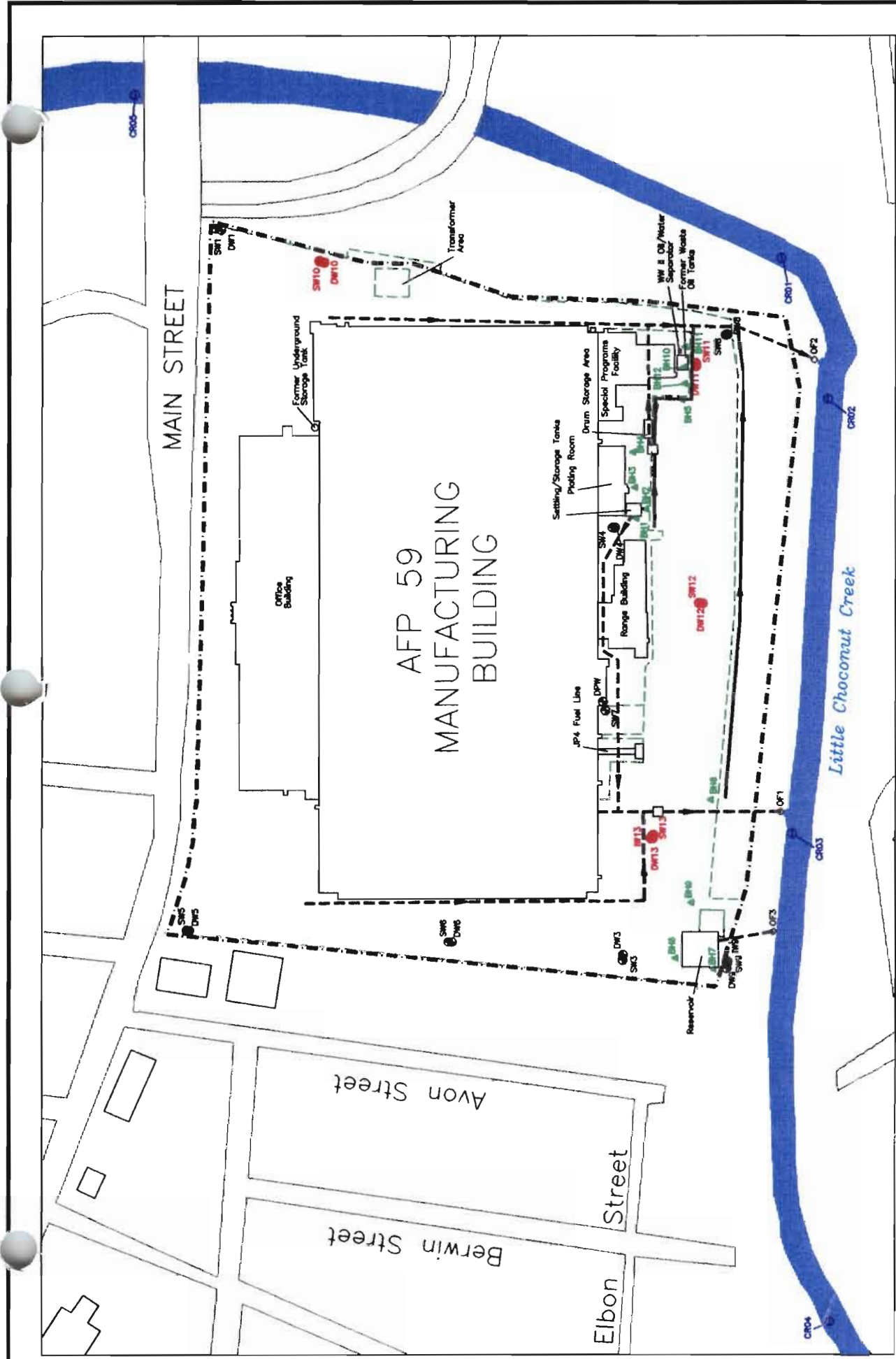
### LEGEND

- DW3 — Monitoring Well
- DP36 — Direct Push Location
- AFP 59 Property Boundary
- - - Fence

FIGURE I-1

## AFP 59 REMEDIAL INVESTIGATION DIRECT PUSH SAMPLING LOCATIONS

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**FIGURE 1-2**

**AFP 59 REMEDIAL INVESTIGATION SAMPLING LOCATIONS**

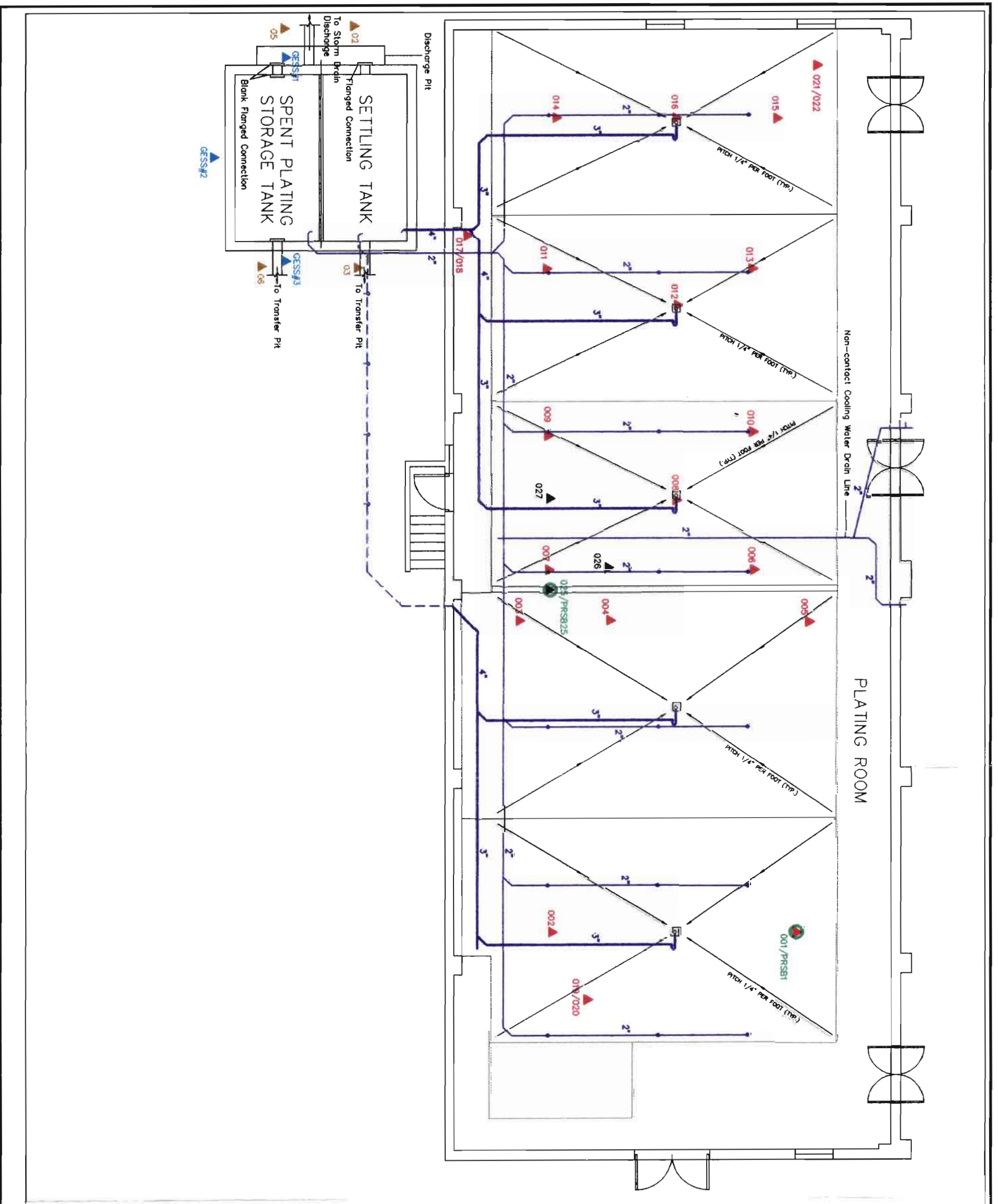
**LEGEND**

- Storm Water Conduit
- Drainage Channel
- - - AFP 59 Property Boundary
- · · · · Fence
- DW3 - Existing Monitoring Well
- DW12 - RI Monitoring Well
- ▲ BH8 - RI Soil Boring
- CRO4 - RI Surface Water/Sediment Sampling Location

SCALE IN FEET

0 115 230

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**LEGEND**

- ▲ OHM, July 1992 Soil Boring Locations
- ▲ OHM, September 1993 Soil Boring Locations
- ▲ OHM, November 1993 Soil Boring Locations
- ▲ OHM, June 1994 Soil Boring Locations
- Blastland, Bouck, & Lee Inc., November 1994 Boring Locations
- Drain Line
- Floor Drain
- Floor Drain Opening

**NOTES:** Locations are approximate.  
See Figure 1-2 for location of map area relative to manufacturing building.

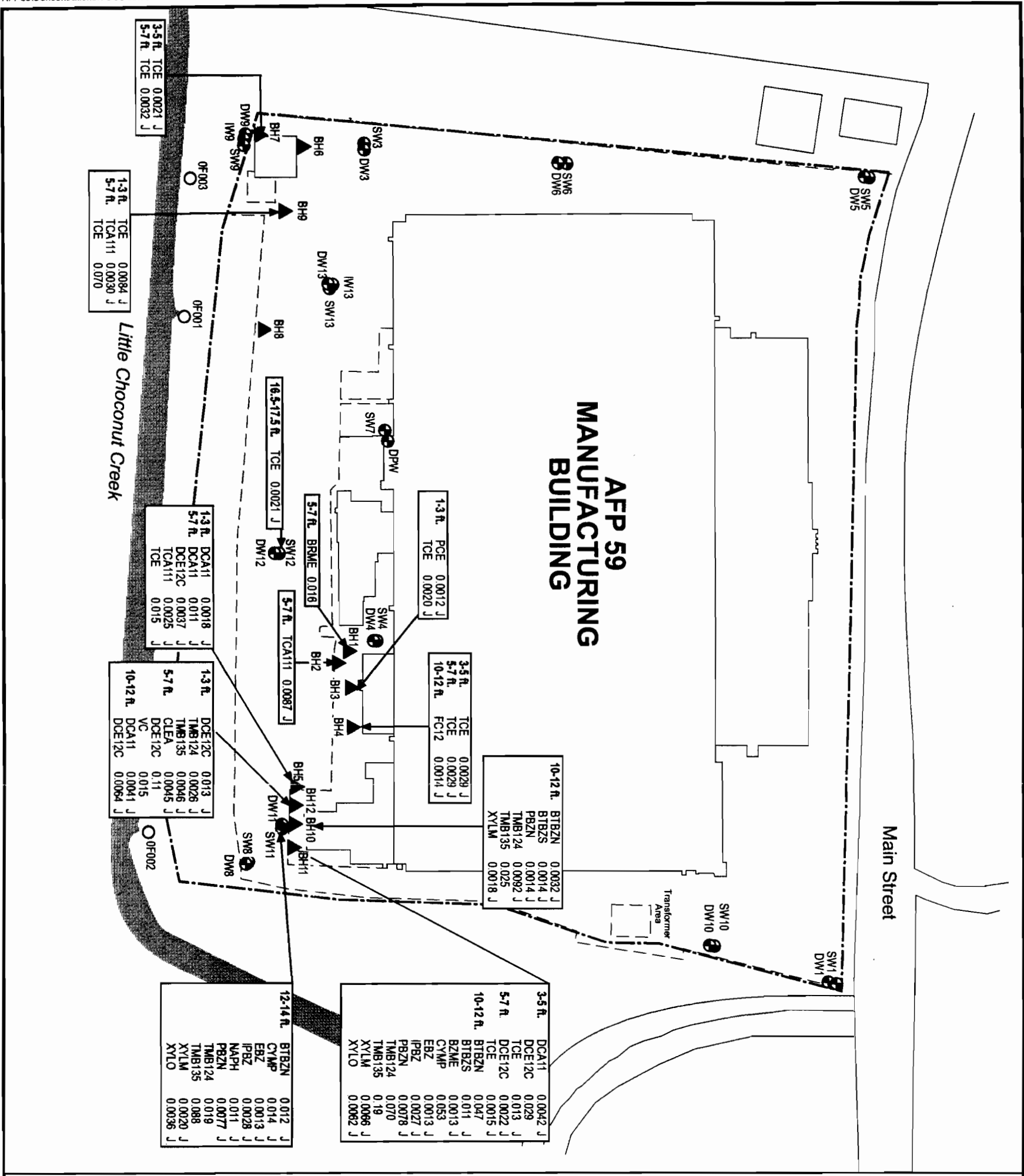
**SCALE IN FEET**

0 5 10

**FIGURE 1-3**

**EXISTING SOIL SAMPLING LOCATIONS FROM PREVIOUS MARTIN MARIETTA INVESTIGATIONS**

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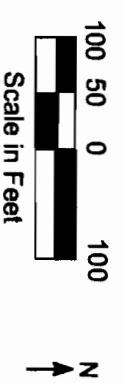


- Boundary
- - - Fence
- Monitoring Well
- Outfall
- ▲ Soil Boring

- KEY**
- BRME = bromomethane
  - BTBZN = n-butylbenzene
  - BTBZS = sec-butylbenzene
  - BZME = toluene
  - CLEA = chloroethane
  - CYMP = p-cymene (p-isopropyl toluene)
  - DCA11 = 1,1-dichloroethane
  - DCE12C = cis-1,2-dichloroethane
  - EBZ = ethylbenzene
  - FC12 = dichlorodifluoromethane
  - IPBZ = isopropylbenzene (cumene)
  - PBZN = n-propylbenzene
  - PCE = tetrachloroethane
  - TCA111 = 1,1,1-trichloroethane
  - TCE = trichloroethene
  - TMB124 = 1,2,4-trimethylbenzene
  - TMB135 = 1,3,5-trimethylbenzene
  - VC = vinyl chloride
  - XYLM = m-xylene
  - XYLO = o-xylene

J = Estimated

Note: Concentrations are reported in mg/kg. Highest concentrations of replicate samples are reported. If no data were presented at a location, no VOCs were detected in the soil.

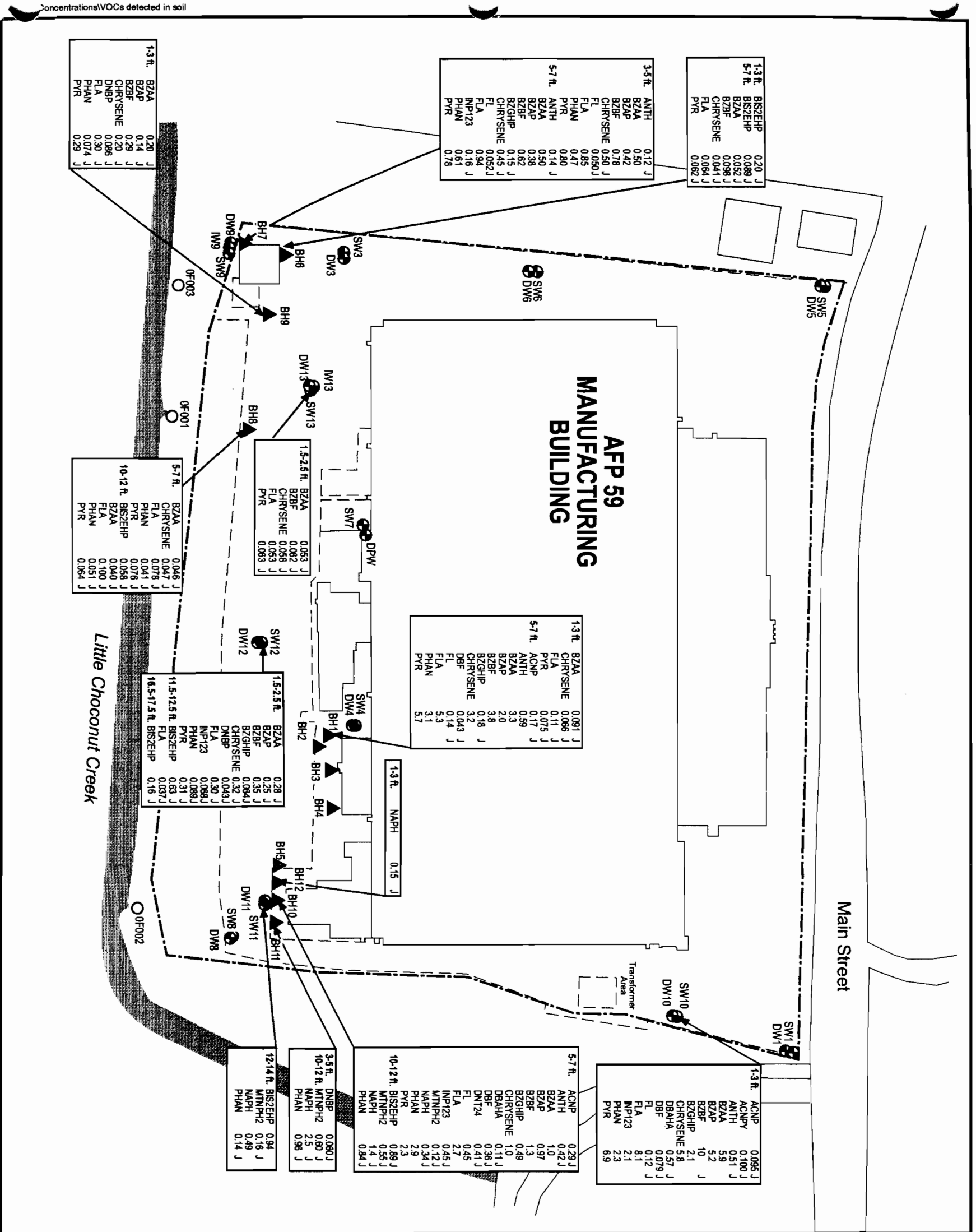


**FIGURE 1-4**

**VOCs Detected in Soil**

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**KEY**

- Boundary
- - - Fence
- Monitoring Well
- Outfall
- ▲ Soil Boring

**KEY**

- ACNP = acenaphthene
- ACNPY = acenaphthylene
- ANTH = anthracene
- BIS2EHP = bis(2-ethylhexyl)phthalate
- BZAA = benzo(a)anthracene
- BZAP = benzo(a)pyrene
- BZBF = benzo(b)fluoranthene
- BZGHIP = benzo(g,h,i)perylene
- CHRYSENE = chrysene
- DBAHA = dibenz(a,h)anthracene
- DBF = dibenzofuran
- DMBP = di-n-butylphthalate
- DNT24 = 2,4-dinitrotoluene
- FL = fluorene
- FLA = fluoranthene
- INP123 = indeno(1,2,3-cd)pyrene
- MTNPH2 = 2-methylnaphthalene
- NAPH = naphthalene
- PHAN = phenanthrene
- PYR = pyrene

**Note:** Concentrations are reported in mg/kg. Highest concentrations of replicate samples are reported. If no data are presented at a location, no SVOCs were detected in the soil.

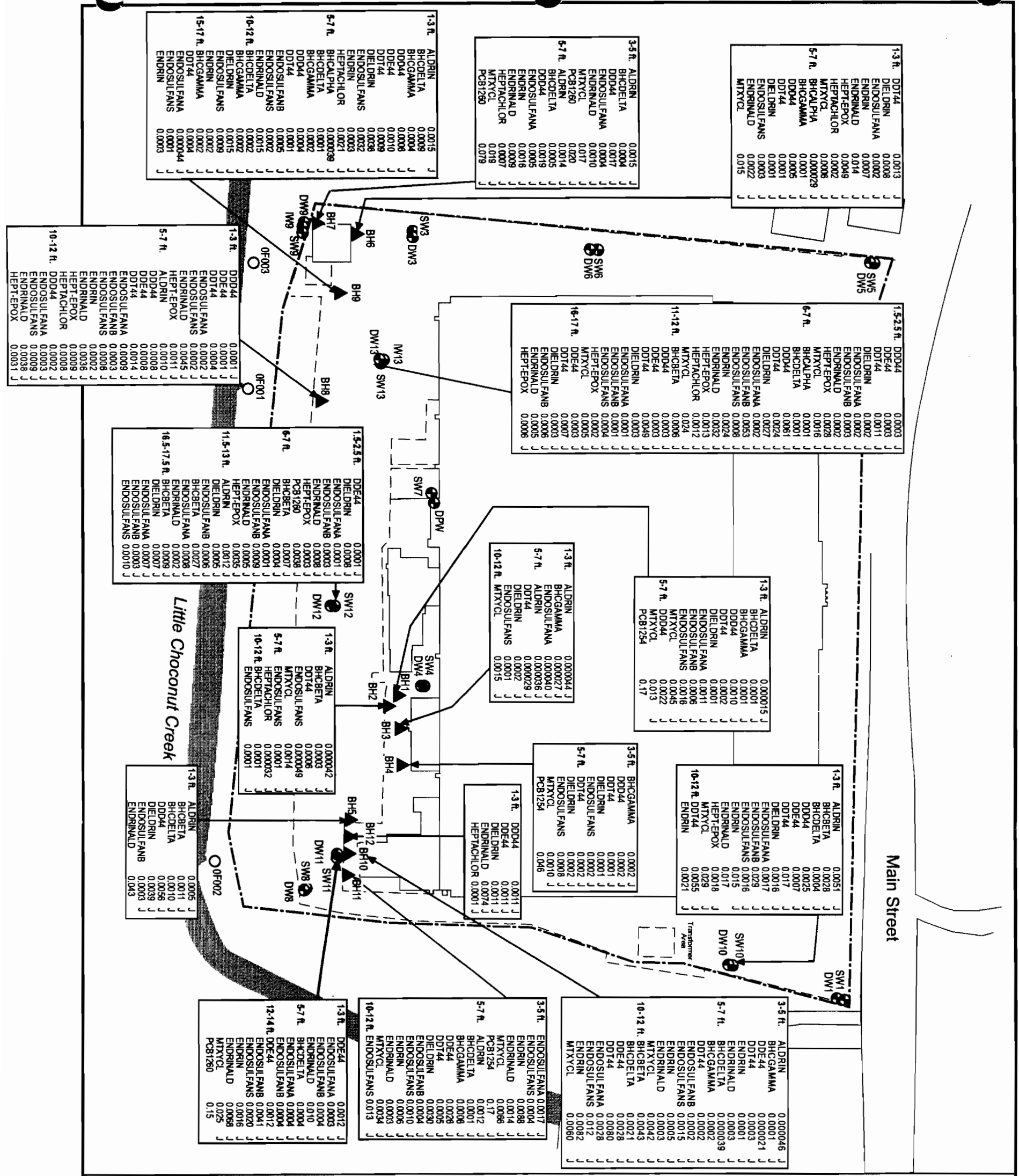
**J = Estimated**

Scale in Feet: 100 50 0 100

**FIGURE 1-5**

**SVOCs Detected in Soil**

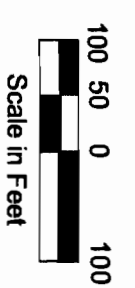
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- - - - - Boundary  
 - - - - - Fence  
 ● Monitoring Well  
 ○ Outfall  
 ▲ Soil Boring

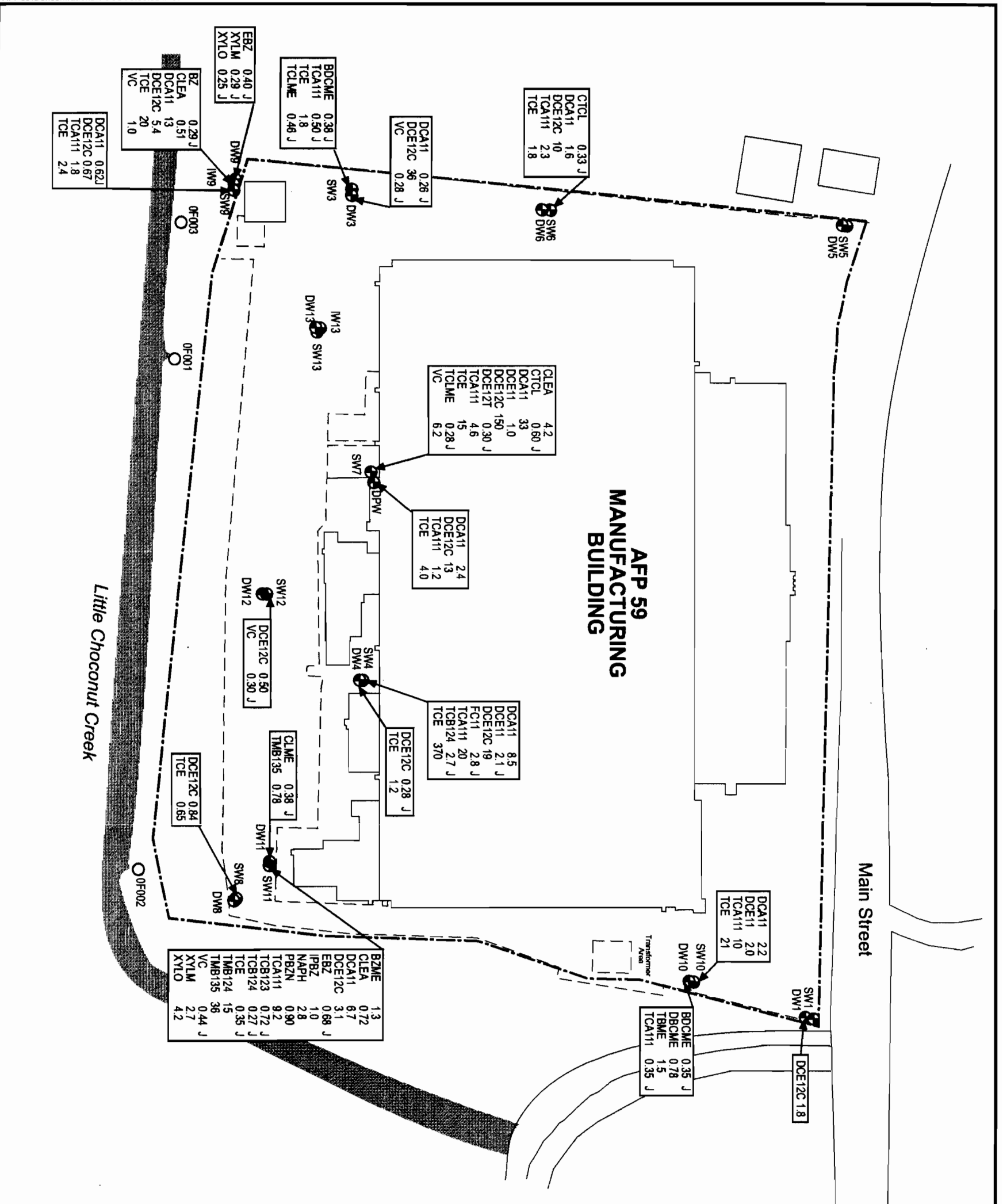
**KEY**  
 ALDRIN = aldrin  
 BHCALPHA = alpha BHC  
 BHCBETA = beta BHC  
 BHCDELTA = delta BHC  
 BHC GAMMA = gamma BHC  
 DDD44 = 4,4'-DDD  
 DDE44 = 4,4'-DDE  
 DDT44 = 4,4'-DDT  
 DIELDRIN = dieldrin  
 ENDOSULFANA = alpha endosulfan  
 ENDOSULFANB = beta endosulfan  
 ENDOSULFANS = endosulfan sulfate  
 ENDRIN = endrin  
 ENDRINALD = endrin aldehyde  
 HEPTACHLOR = heptachlor  
 HEPT-EPOX = heptachlor epoxide  
 MTHXYCL = methoxychlor  
 PCB-1254 = PCB-1254  
 PCB-1260 = PCB-1260  
 J = Estimated

Note: Concentrations are reported in mg/kg.  
 Highest concentrations of replicate samples are reported.  
 If no data are presented at a location, no pesticides/PCBs were detected in the soil.



**FIGURE 1-6**  
**Pesticides/PCBs Detected in Soil**

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**KEY**

- Boundary
- Fence
- Monitoring Well
- Outfall

**KEY**

- BDCME = bromodichloromethane
- BZ = benzene
- BZME = toluene
- CLEA = chloroethane
- CLME = carbon tetrachloride
- CTCL = dibromochloromethane
- DBCME = 1,1-dichloroethane
- DCA111 = 1,1-dichloroethane
- DCE11 = cis-1,2-dichloroethane
- DCE12C = trans-1,2-dichloroethane
- DCE12T = ethylbenzene
- EBZ = trichlorofluoromethane
- FC11 = isopropylbenzene
- IPBZ = naphthalene
- NAPB = n-propylbenzene
- PBZN = bromoform
- TBME = 1,1,1-trichloroethane
- TCA111 = 1,2,3-trichlorobenzene
- TCB123 = 1,2,4-trichlorobenzene
- TCB124 = trichloroethene
- TCE = chloroform
- TCLME = 1,2,4-trimethylbenzene
- TMB124 = 1,3,5-trimethylbenzene
- TMB135 = vinyl chloride
- VC = m-xylene
- XYLM = o-xylene
- XYLO =

J = Estimated

**Note:** Concentrations are reported in mg/kg. If no data are presented at a monitoring well location, no VOCs were detected in the groundwater. At locations where duplicates were collected, the maximum concentration is presented.

Scale in Feet: 100 50 0 100

North Arrow: N

**FIGURE 1-7**

**VOCs Detected in Groundwater**

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TABLE 1-1  
AIR FORCE PLANT 59  
SOIL DATA SUMMARY FOR METALS (SW6010, SW7060, SW7421, SW7471, SW7740, SW7841)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)	Method Blanks
			Field ID 59BH06SO1 Lab ID 649305	Field ID Lab ID	Field ID Lab ID	Equipment Field ID EB1101994 Lab ID 649361	(mg/kg) Lab ID 655647
Aluminum (Al)	135	9650 (2)	4770 J			57.4 U	13.500
Arsenic (As)	0.85	7.5	3.6			ND	ND
Barium (Ba)	0.65	39.15 (2)	18.2 J			ND	ND
Beryllium (Be)	0.60	0.16	ND			ND	ND
Calcium (Ca)	68.0	3528 (2)	68700 J			65.8 U	6.800
Cadmium (Cd)	1.5	1.0	ND			ND	ND
Cobalt (Co)	2.0	9.8 (2)	5.0			ND	ND
Chromium (Cr)	2.5	10	6.5			ND	ND
Copper (Cu)	3.0	24.6 (2)	36.6			ND	ND
Iron (Fe)	38.5	2000	10000 J			ND	3.850
Mercury (Hg)	0.30	0.1	ND			ND	ND
Potassium (K)	530	872 (2)	458 J			ND	392.160
Magnesium (Mg)	52.0	3557.5 (2)	9760 J			ND	ND
Manganese (Mn)	5.5	410 (2)	281 J			ND	0.550
Molybdenum (Mo)	11.0		17.0			ND	ND
Sodium (Na)	380	168 (2)	112 J			521 U	38.000
Nickel (Ni)	8.5	13.0	9.5			ND	ND
Lead (Pb)	0.30	18.6 (2)	5.1			ND	ND
Selenium (Se)	0.80	2.0	ND			ND	ND
Vanadium (V)	4.0	14.4 (2)	6.1			ND	ND
Zinc (Zn)	9.0	20.0	46.8 J			15.3	ND

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)	Method Blanks
			Field ID 59BH08SO2 Lab ID 649833	Field ID 59BH08SO9 Lab ID 649845	Field ID Lab ID	Equipment Field ID EB1102094 Lab ID 649802	(mg/kg) Lab ID 655647
Aluminum (Al)	135	9650 (2)	12100 J	11200 J		68.8 U	13.500
Arsenic (As)	0.85	7.5	6.5	6.2		ND	ND
Barium (Ba)	0.65	39.15 (2)	79.0 J	57.0 J		ND	ND
Beryllium (Be)	0.60	0.16	0.40 J	0.36 J		ND	ND
Calcium (Ca)	68.0	3528 (2)	593 J	6760 J		80.4 U	6.800
Cadmium (Cd)	1.5	1.0	ND	ND		ND	ND
Cobalt (Co)	2.0	9.8 (2)	10.5	10.3		ND	ND
Chromium (Cr)	2.5	10	14.5	14.3		ND	ND
Copper (Cu)	3.0	24.6 (2)	23.9	18.7		ND	ND
Iron (Fe)	38.5	2000	22000 J	20300 J		ND	3.850
Mercury (Hg)	0.30	0.1	ND	ND		ND	ND
Potassium (K)	530	872 (2)	846	416 J		ND	392.160
Magnesium (Mg)	52.0	3557.5 (2)	3420 J	3600 J		ND	ND
Manganese (Mn)	5.5	410 (2)	529 J	600 J		ND	0.550
Molybdenum (Mo)	11.0		19.5	17.1		ND	ND
Sodium (Na)	380	168 (2)	140 J	224 J		604 U	38.000
Nickel (Ni)	8.5	13.0	21.5	20.3		ND	ND
Lead (Pb)	0.30	18.6 (2)	14.3	12.5		ND	ND
Selenium (Se)	0.80	2.0	ND	ND		ND	ND
Vanadium (V)	4.0	14.4 (2)	13.8	11.0		ND	ND
Zinc (Zn)	9.0	20.0	93.8 J	67.2 J		12.4	ND

TABLE 1-1  
AIR FORCE PLANT 59  
SOIL DATA SUMMARY FOR METALS (SW6010, SW7060, SW7421, SW7471, SW7740, SW7841)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)	Method Blanks
			Field ID 59BH08SO3 Lab ID 649839	Field ID 59BH08SO1 Lab ID 649827	Field ID Lab ID	Equipment Field ID EB1102094 Lab ID 649802	(mg/kg) Lab ID 655647
Aluminum (Al)	135	9650 (2)	8730 J	13400 J		68.8 U	13.500
Arsenic (As)	0.85	7.5	11.9	5.4		ND	ND
Barium (Ba)	0.65	39.15 (2)	70.1 J	47.7 J		ND	ND
Beryllium (Be)	0.60	0.16	0.35 J	0.44 J		ND	ND
Calcium (Ca)	68.0	3528 (2)	1330 J	932 J		80.4 U	6.800
Cadmium (Cd)	1.5	1.0	ND	ND		ND	ND
Cobalt (Co)	2.0	9.8 (2)	9.7	9.3		ND	ND
Chromium (Cr)	2.5	10	11.1	15.6		ND	ND
Copper (Cu)	3.0	24.6 (2)	59.7	28.5		ND	ND
Iron (Fe)	38.5	2000	22400 J	20900 J		ND	3.850
Mercury (Hg)	0.30	0.1	ND	ND		ND	ND
Potassium (K)	530	872 (2)	947	938		ND	392.160
Magnesium (Mg)	52.0	3557.5 (2)	2850 J	2910 J		ND	ND
Manganese (Mn)	5.5	410 (2)	1060 J	320 J		ND	0.550
Molybdenum (Mo)	11.0		17.4	17.9		ND	ND
Sodium (Na)	380	168 (2)	136 J	226 J		604 U	38.000
Nickel (Ni)	8.5	13.0	20.0	19.9		ND	ND
Lead (Pb)	0.30	18.6 (2)	32.1	10.4		ND	ND
Selenium (Se)	0.80	2.0	ND	ND		ND	ND
Vanadium (V)	4.0	14.4 (2)	13.0	14.9		ND	ND
Zinc (Zn)	9.0	20.0	217 J	82.6 J		12.4	ND

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)	Method Blanks
			Field ID 59BH09SO2 Lab ID 649872	Field ID 59BH09SO9 Lab ID 649893	Field ID Lab ID	Equipment Field ID EB1102094 Lab ID 649802	(mg/kg) Lab ID 655647
Aluminum (Al)	135	9650 (2)	7010 J	11600 J		68.8 U	13.500
Arsenic (As)	0.85	7.5	12.8 J	18.8		ND	ND
Barium (Ba)	0.65	39.15 (2)	50.6 J	125 J		ND	ND
Beryllium (Be)	0.60	0.16	0.27 J	0.81 J		ND	ND
Calcium (Ca)	68.0	3528 (2)	3030 J	11000 J		80.4 U	6.800
Cadmium (Cd)	1.5	1.0	ND	ND		ND	ND
Cobalt (Co)	2.0	9.8 (2)	7.2	11.7		ND	ND
Chromium (Cr)	2.5	10	9.7 J	14.8		ND	ND
Copper (Cu)	3.0	24.6 (2)	157 J	78.8		ND	ND
Iron (Fe)	38.5	2000	16000 J	29700 J		ND	3.850
Mercury (Hg)	0.30	0.1	ND	0.40 J		ND	ND
Potassium (K)	530	872 (2)	713 U	1110		ND	392.160
Magnesium (Mg)	52.0	3557.5 (2)	2520 J	4110 J		ND	ND
Manganese (Mn)	5.5	410 (2)	776 J	526 J		ND	0.550
Molybdenum (Mo)	11.0		12.2	22.0		ND	ND
Sodium (Na)	380	168 (2)	293 J	706 J		604 U	38.000
Nickel (Ni)	8.5	13.0	15.6	27.5		ND	ND
Lead (Pb)	0.30	18.6 (2)	12.3 J	22.4		ND	ND
Selenium (Se)	0.80	2.0	ND UJ	0.56 J		ND	ND
Vanadium (V)	4.0	14.4 (2)	9.4	17.1		ND	ND
Zinc (Zn)	9.0	20.0	130 J	1090 J		12.4	ND



TABLE 1-1  
AIR FORCE PLANT 59  
SOIL DATA SUMMARY FOR METALS (SW6010, SW7060, SW7421, SW7471, SW7740, SW7841)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)		Method Blanks
			Field ID 59BH09SO3 Lab ID 649878	Field ID 59BH09SO4 Lab ID 649884	Field ID Lab ID	Equipment Field ID EB1102094 Lab ID 649802	(mg/kg) Lab ID 655647	
Aluminum ( Al)	135	9650 (2)	6290 J	6040 J		68.8 U	13.500	
Arsenic (As)	0.85	7.5	4.6	8.4		ND	ND	
Barium (Ba)	0.65	39.15 (2)	36.1 J	56.6 J		ND	ND	
Beryllium (Be)	0.60	0.16	ND	ND		ND	ND	
Calcium (Ca)	68.0	3528 (2)	19100 J	24700 J		80.4 U	6.800	
Cadmium (Cd)	1.5	1.0	ND	ND		ND	ND	
Cobalt (Co)	2.0	9.8 (2)	6.8	6.7		ND	ND	
Chromium (Cr)	2.5	10	7.3	8.7		ND	ND	
Copper (Cu)	3.0	24.6 (2)	42.7	39.9		ND	ND	
Iron (Fe)	38.5	2000	15100 J	15600 J		ND	3.850	
Mercury (Hg)	0.30	0.1	ND	ND		ND	ND	
Potassium (K)	530	872 (2)	725	287 J		ND	392.160	
Magnesium (Mg)	52.0	3557.5 (2)	3290 J	3270 J		ND	ND	
Manganese (Mn)	5.5	410 (2)	315 J	720 J		ND	0.550	
Molybdenum (Mo)	11.0		12.1	14.1		ND	ND	
Sodium (Na)	380	168 (2)	93.1 J	106 J		604 U	38.000	
Nickel (Ni)	8.5	13.0	11.6	12.4		ND	ND	
Lead (Pb)	0.30	18.6 (2)	6.8	9.2		ND	ND	
Selenium (Se)	0.80	2.0	ND	ND		ND	ND	
Vanadium (V)	4.0	14.4 (2)	7.6	7.4		ND	ND	
Zinc (Zn)	9.0	20.0	67.0 J	136 J		12.4	ND	

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)		Method Blanks
			Field ID 59BH10SO1 Lab ID 650126	Field ID 59BH10SO2 Lab ID 650132	Field ID 59BH10SO3 Lab ID 650120	Equipment Field ID EB1102194 Lab ID 650097	(mg/kg) Lab ID 655647	
Aluminum ( Al)	135	9650 (2)	7690 J	8530 J	9830 J	75.7 U	13.500	
Arsenic (As)	0.85	7.5	7.8	10.0	10.1	ND	ND	
Barium (Ba)	0.65	39.15 (2)	34.3 J	40.5 J	62.4 J	ND	ND	
Beryllium (Be)	0.60	0.16	0.23 J	0.29 J	0.35 J	ND	ND	
Calcium (Ca)	68.0	3528 (2)	60500 J	32700 J	986 J	68.3 U	6.800	
Cadmium (Cd)	1.5	1.0	ND	ND	ND	ND	ND	
Cobalt (Co)	2.0	9.8 (2)	6.8	7.3	11.9	ND	ND	
Chromium (Cr)	2.5	10	12.0	10.4	14.6	ND	ND	
Copper (Cu)	3.0	24.6 (2)	22.1	32.6	41.4	ND	ND	
Iron (Fe)	38.5	2000	16800 J	18800 J	19900 J	ND	3.850	
Mercury (Hg)	0.30	0.1	ND	ND	ND	ND	ND	
Potassium (K)	530	872 (2)	513 J	776	819	ND	392.160	
Magnesium (Mg)	52.0	3557.5 (2)	4310 J	5370 J	2110 J	ND	ND	
Manganese (Mn)	5.5	410 (2)	308 J	355 J	243 J	ND	0.550	
Molybdenum (Mo)	11.0		15.7	18.7	11.8 J	ND	ND	
Sodium (Na)	380	168 (2)	119 J	105 J	94.8 J	542 U	38.000	
Nickel (Ni)	8.5	13.0	16.3	18.6	28.7	ND	ND	
Lead (Pb)	0.30	18.6 (2)	10.5	52.5	14.7	ND	ND	
Selenium (Se)	0.80	2.0	ND	ND	ND	ND	ND	
Vanadium (V)	4.0	14.4 (2)	8.3	10.6	11.0	ND	ND	
Zinc (Zn)	9.0	20.0	51.0 J	63.6 J	78.5 J	12.4	ND	

TABLE 1-1  
AIR FORCE PLANT 59  
SOIL DATA SUMMARY FOR METALS (SW6010, SW7060, SW7421, SW7471, SW7740, SW7841)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)		Method Blanks
			Field ID 59BH11SO1 Lab ID 650108	Field ID 59BH11SO2 Lab ID 650114	Field ID 59BH11SO3 Lab ID 650102	Equipment Field ID EB1102194 Lab ID 650097	(mg/kg) Lab ID 655647	
Aluminum (Al)	135	9650 (2)	12500 J	10700 J	11000 J	75.7 U	13.500	
Arsenic (As)	0.85	7.5	5.9	2.4	12.4 J	ND	ND	
Barium (Ba)	0.65	39.15 (2)	60.5 J	32.7 J	79.7 J	ND	ND	
Beryllium (Be)	0.60	0.16	0.45 J	0.39 J	0.39 J	ND	ND	
Calcium (Ca)	68.0	3528 (2)	653 J	499 J	855 J	68.3 U	6.800	
Cadmium (Cd)	1.5	1.0	ND	ND	ND	ND	ND	
Cobalt (Co)	2.0	9.8 (2)	8.6	10.2	8.3	ND	ND	
Chromium (Cr)	2.5	10	14.9	13.7	14.3	ND	ND	
Copper (Cu)	3.0	24.6 (2)	78.3	16.7	58.8 J	ND	ND	
Iron (Fe)	38.5	2000	20000 J	20800 J	19100 J	ND	3.850	
Mercury (Hg)	0.30	0.1	ND	ND	ND	ND	ND	
Potassium (K)	530	872 (2)	914	303 J	835 U	ND	392.160	
Magnesium (Mg)	52.0	3557.5 (2)	2950 J	2980 J	2390 J	ND	ND	
Manganese (Mn)	5.5	410 (2)	399 J	409 J	367 J	ND	0.550	
Molybdenum (Mo)	11.0		18.3	16.3	17.6	ND	ND	
Sodium (Na)	380	168 (2)	83.9 J	80.7 J	87.1 U	542 U	38.000	
Nickel (Ni)	8.5	13.0	20.5	19.8	24.4	ND	ND	
Lead (Pb)	0.30	18.6 (2)	11.6	10.1	24.5 J	ND	ND	
Selenium (Se)	0.80	2.0	ND	ND	ND UJ	ND	ND	
Vanadium (V)	4.0	14.4 (2)	14.9	11.8	13.2	ND	ND	
Zinc (Zn)	9.0	20.0	142 J	55.1 J	128 J	12.4	ND	

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)		Method Blanks
			Field ID 59BH12SO1 Lab ID 650489	Field ID Lab ID	Field ID Lab ID	Equipment Field ID EB1102394 Lab ID 650561	(mg/kg) Lab ID 655647	
Aluminum (Al)	135	9650 (2)	11500 J			61.1 U	13.500	
Arsenic (As)	0.85	7.5	5.1			ND	ND	
Barium (Ba)	0.65	39.15 (2)	74.9 J			ND	ND	
Beryllium (Be)	0.60	0.16	0.41 J			ND	ND	
Calcium (Ca)	68.0	3528 (2)	2220 J			79.2 U	6.800	
Cadmium (Cd)	1.5	1.0	ND			ND	ND	
Cobalt (Co)	2.0	9.8 (2)	10.0			ND	ND	
Chromium (Cr)	2.5	10	13.6			ND	ND	
Copper (Cu)	3.0	24.6 (2)	40.1			ND	ND	
Iron (Fe)	38.5	2000	20800 J			10.6 J	3.850	
Mercury (Hg)	0.30	0.1	ND			ND	ND	
Potassium (K)	530	872 (2)	755			ND	392.160	
Magnesium (Mg)	52.0	3557.5 (2)	2620 J			ND	ND	
Manganese (Mn)	5.5	410 (2)	678 J			2.8 J	0.550	
Molybdenum (Mo)	11.0		14.8			ND	ND	
Sodium (Na)	380	168 (2)	96.9 J			556 U	38.000	
Nickel (Ni)	8.5	13.0	20.2			ND	ND	
Lead (Pb)	0.30	18.6 (2)	16.9			ND	ND	
Selenium (Se)	0.80	2.0	ND			ND	ND	
Vanadium (V)	4.0	14.4 (2)	12.4			ND	ND	
Zinc (Zn)	9.0	20.0	79.3 J			ND	ND	

TABLE 1-1  
AIR FORCE PLANT 59  
SOIL DATA SUMMARY FOR METALS (SW6010, SW7060, SW7421, SW7471, SW7740, SW7841)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)	Method Blanks
			Field ID 59BH09SO1 Lab ID 649859	Field ID Lab ID	Field ID Lab ID	Equipment Field ID EB1102094 Lab ID 649802	(mg/kg) Lab ID 655678
Aluminum (Al)	135	9650 (2)	6530			68.8 U	5.174
Arsenic (As)	0.85	7.5	5.7			ND	ND
Barium (Ba)	0.65	39.15 (2)	32.7			ND	ND
Beryllium (Be)	0.60	0.16	0.30 J			ND	ND
Calcium (Ca)	68.0	3528 (2)	43500			80.4 U	0.472
Cadmium (Cd)	1.5	1.0	ND			ND	ND
Cobalt (Co)	2.0	9.8 (2)	6.8			ND	ND
Chromium (Cr)	2.5	10	8.0			ND	ND
Copper (Cu)	3.0	24.6 (2)	32.8			ND	ND
Iron (Fe)	38.5	2000	14200 J			ND	ND
Mercury (Hg)	0.30	0.1	ND			ND	ND
Potassium (K)	530	872 (2)	496 J			ND	ND
Magnesium (Mg)	52.0	3557.5 (2)	5000			ND	ND
Manganese (Mn)	5.5	410 (2)	398			ND	ND
Molybdenum (Mo)	11.0		ND			ND	ND
Sodium (Na)	380	168 (2)	236 J			604 U	22.011
Nickel (Ni)	8.5	13.0	11.1			ND	ND
Lead (Pb)	0.30	18.6 (2)	8.8			ND	ND
Selenium (Se)	0.80	2.0	ND			ND	ND
Vanadium (V)	4.0	14.4 (2)	10.0			ND	ND
Zinc (Zn)	9.0	20.0	52.5			12.4	ND

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)	Method Blanks
			Field ID 59BH12SO2 Lab ID 650495	Field ID 59BH12SO3 Lab ID 650502	Field ID 59BH12SO9 Lab ID 650542	Equipment Field ID EB1102394 Lab ID 650561	(mg/kg) Lab ID 655678
Aluminum (Al)	135	9650 (2)	10900	11100	11000	61.1 U	5.174
Arsenic (As)	0.85	7.5	5.6	3.8	3.5	ND	ND
Barium (Ba)	0.65	39.15 (2)	82.9	58.5	54.1	ND	ND
Beryllium (Be)	0.60	0.16	0.53 J	0.42 J	0.45 J	ND	ND
Calcium (Ca)	68.0	3528 (2)	7520	461	450	79.2 U	0.472
Cadmium (Cd)	1.5	1.0	ND	ND	ND	ND	ND
Cobalt (Co)	2.0	9.8 (2)	9.2	8.5	9.6	ND	ND
Chromium (Cr)	2.5	10	12.8	12.5	12.3	ND	ND
Copper (Cu)	3.0	24.6 (2)	39.3	11.1	10.6	ND	ND
Iron (Fe)	38.5	2000	19400 J	17700 J	18100 J	10.6 J	ND
Mercury (Hg)	0.30	0.1	ND	ND	ND	ND	ND
Potassium (K)	530	872 (2)	716	509 J	449 J	ND	ND
Magnesium (Mg)	52.0	3557.5 (2)	3100	2830	2980	ND	ND
Manganese (Mn)	5.5	410 (2)	646	282	417	2.8 J	ND
Molybdenum (Mo)	11.0		ND	ND	ND	ND	ND
Sodium (Na)	380	168 (2)	137 J	91.8 U	101 U	556 U	22.011
Nickel (Ni)	8.5	13.0	16.3	16.3	16.2	ND	ND
Lead (Pb)	0.30	18.6 (2)	50.8	10.1	10.8	ND	ND
Selenium (Se)	0.80	2.0	ND	ND	ND	ND	ND
Vanadium (V)	4.0	14.4 (2)	15.9	14.8	14.1	ND	ND
Zinc (Zn)	9.0	20.0	81.1	56.3	61.6	ND	ND

**TABLE 1-1**  
**AIR FORCE PLANT 59**  
**SOIL DATA SUMMARY FOR METALS (SW6010, SW7060, SW7421, SW7471, SW7740, SW7841)**

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)		Method Blanks
			Field ID 59SW10SO1	Field ID 59SW10SO2	Field ID 59SW10SO3	Equipment Field ID	(mg/kg)	
			Lab ID 650548	Lab ID 650523	Lab ID 650554	EB1102394 Lab ID 650561	Lab ID 655678	
Aluminum (Al)	135	9650 (2)	8840	10600	9680	61.1 U	5.174	
Arsenic (As)	0.85	7.5	5.0 J	5.5	6.7	ND	ND	
Barium (Ba)	0.65	39.15 (2)	105	31.1	49.8	ND	ND	
Beryllium (Be)	0.60	0.16	0.52 J	0.38 J	0.50 J	ND	ND	
Calcium (Ca)	68.0	3528 (2)	17800 J	454	295	79.2 U	0.472	
Cadmium (Cd)	1.5	1.0	ND UJ	ND	ND	ND	ND	
Cobalt (Co)	2.0	9.8 (2)	9.4	10.2	10.0	ND	ND	
Chromium (Cr)	2.5	10	12.5	12.0	13.1	ND	ND	
Copper (Cu)	3.0	24.6 (2)	132	14.7	17.5	ND	ND	
Iron (Fe)	38.5	2000	16000 J	18700 J	20200 J	10.6 J	ND	
Mercury (Hg)	0.30	0.1	ND	ND	ND	ND	ND	
Potassium (K)	530	872 (2)	746	600 J	798	ND	ND	
Magnesium (Mg)	52.0	3557.5 (2)	2890	3050	2920	ND	ND	
Manganese (Mn)	5.5	410 (2)	743	425	317	2.8 J	ND	
Molybdenum (Mo)	11.0		ND	ND	ND	ND	ND	
Sodium (Na)	380	168 (2)	183 J	96.4 U	171 J	556 U	22.011	
Nickel (Ni)	8.5	13.0	19.1	16.8	16.9	ND	ND	
Lead (Pb)	0.30	18.6 (2)	69.6 J	11.4	13.6	ND	ND	
Selenium (Se)	0.80	2.0	0.92 J	ND	ND	ND	ND	
Vanadium (V)	4.0	14.4 (2)	12.9	14.3	15.2	ND	ND	
Zinc (Zn)	9.0	20.0	80.8	47.0	67.6	ND	ND	

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)		Method Blanks
			Field ID 59SW11SO1	Field ID 59SW11SO2	Field ID 59SW11SO3	Equipment Field ID	(mg/kg)	
			Lab ID 655358	Lab ID 655373	Lab ID 655379	EB1110994 Lab ID 655393	Lab ID 663795	
Aluminum (Al)	135	9650 (2)	11000 J	10600 J	8720 J	70.7 U	ND	
Arsenic (As)	0.85	7.5	4.7	7.4	6.4	ND	0.319	
Barium (Ba)	0.65	39.15 (2)	58.7	48.4	81.7	12.8	ND	
Beryllium (Be)	0.60	0.16	0.56 J	0.49 J	0.39 J	3.8	0.023	
Calcium (Ca)	68.0	3528 (2)	12000 J	618 J	1000 J	129 J	ND	
Cadmium (Cd)	1.5	1.0	ND	ND	ND	ND	ND	
Cobalt (Co)	2.0	9.8 (2)	9.4	9.9	8.5	ND	ND	
Chromium (Cr)	2.5	10	13.3	12.6	13.0	ND	ND	
Copper (Cu)	3.0	24.6 (2)	41.4	56.4	133	3.0 J	ND	
Iron (Fe)	38.5	2000	20600 J	19400 J	17400 J	ND	6.618	
Mercury (Hg)	0.30	0.1	ND	ND	ND	ND	ND	
Potassium (K)	530	872 (2)	1140	825	896	606 J	ND	
Magnesium (Mg)	52.0	3557.5 (2)	4190	2820	2520	ND	ND	
Manganese (Mn)	5.5	410 (2)	498 J	649 J	579 J	4.4	0.257	
Molybdenum (Mo)	11.0		ND	ND	ND	ND	ND	
Sodium (Na)	380	168 (2)	229 J	162 J	157 J	883 U	ND	
Nickel (Ni)	8.5	13.0	17.8	17.5	18.0	ND	ND	
Lead (Pb)	0.30	18.6 (2)	12.6	14.2	15.5	ND	ND	
Selenium (Se)	0.80	2.0	ND	ND	ND	ND	ND	
Vanadium (V)	4.0	14.4 (2)	17.2	15.6	15.4	6.9	ND	
Zinc (Zn)	9.0	20.0	79.6 J	216 J	145 J	6.2 J	ND	

TABLE 1-1  
AIR FORCE PLANT 59  
SOIL DATA SUMMARY FOR METALS (SW6010, SW7060, SW7421, SW7471, SW7740, SW7841)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)		Method Blanks
			Field ID 59SW12SO1	Field ID 59SW12SO2	Field ID	Equipment Field ID	(mg/kg)	
			Lab ID 658123	Lab ID 658127	Lab ID	EB1111694 Lab ID 658100	Lab ID 663795	
Aluminum ( Al)	135	9650 (2)	7040 J	8330 J		38.7 U	ND	
Arsenic (As)	0.85	7.5	6.3	6.9		ND	0.319	
Barium (Ba)	0.65	39.15 (2)	39.0	50.6		1.5 U	ND	
Beryllium (Be)	0.60	0.16	0.35 J	0.43 J		ND	0.023	
Calcium (Ca)	68.0	3528 (2)	10100 J	1590 J		57.3 J	ND	
Cadmium (Cd)	1.5	1.0	ND	ND		ND	ND	
Cobalt (Co)	2.0	9.8 (2)	7.4	9.6		ND	ND	
Chromium (Cr)	2.5	10	9.9	11.4		ND	ND	
Copper (Cu)	3.0	24.6 (2)	48.2	39.4		ND	ND	
Iron (Fe)	38.5	2000	14700 J	19500 J		ND	6.618	
Mercury (Hg)	0.30	0.1	ND	ND		ND	ND	
Potassium (K)	530	872 (2)	736	910		ND	ND	
Magnesium (Mg)	52.0	3557.5 (2)	3500	2770		ND	ND	
Manganese (Mn)	5.5	410 (2)	397 J	586 J		ND	0.257	
Molybdenum (Mo)	11.0		ND	ND		ND	ND	
Sodium (Na)	380	168 (2)	139 J	124 J		620 U	ND	
Nickel (Ni)	8.5	13.0	13.9	18.3		ND	ND	
Lead (Pb)	0.30	18.6 (2)	18.9	15.1		ND	ND	
Selenium (Se)	0.80	2.0	ND	ND		ND	ND	
Vanadium (V)	4.0	14.4 (2)	12.2	14.3		ND	ND	
Zinc (Zn)	9.0	20.0	66.3 J	101 J		3.6 J	ND	

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)		Method Blanks
			Field ID 59SW12SO3	Field ID 59SW12SO4	Field ID 59SW12SO9	Equipment Field ID	(mg/kg)	
			Lab ID 658131	Lab ID 658135	Lab ID 658142	EB1111694 Lab ID 658100	Lab ID 663795	
Aluminum ( Al)	135	9650 (2)	7430 J	7230 J	6770 J	38.7 U	ND	
Arsenic (As)	0.85	7.5	5.3	5.1	6.2	ND	0.319	
Barium (Ba)	0.65	39.15 (2)	45.7	43.0	43.0	1.5 U	ND	
Beryllium (Be)	0.60	0.16	0.35 J	0.37 J	0.34 J	ND	0.023	
Calcium (Ca)	68.0	3528 (2)	3300 J	3690 J	2900 J	57.3 J	ND	
Cadmium (Cd)	1.5	1.0	ND	ND	ND	ND	ND	
Cobalt (Co)	2.0	9.8 (2)	8.6	8.1	8.7	ND	ND	
Chromium (Cr)	2.5	10	12.7	15.3	10.8	ND	ND	
Copper (Cu)	3.0	24.6 (2)	29.2	37.7	45.7	ND	ND	
Iron (Fe)	38.5	2000	17300 J	17100 J	16800 J	ND	6.618	
Mercury (Hg)	0.30	0.1	ND	ND	ND	ND	ND	
Potassium (K)	530	872 (2)	971	1160	800	ND	ND	
Magnesium (Mg)	52.0	3557.5 (2)	2990	2820	2640	ND	ND	
Manganese (Mn)	5.5	410 (2)	527 J	646 J	577 J	ND	0.257	
Molybdenum (Mo)	11.0		ND	ND	ND	ND	ND	
Sodium (Na)	380	168 (2)	123 J	122 J	124 J	620 U	ND	
Nickel (Ni)	8.5	13.0	16.2	16.3	15.4	ND	ND	
Lead (Pb)	0.30	18.6 (2)	11.1	10.0	12.2	ND	ND	
Selenium (Se)	0.80	2.0	ND	ND	ND	ND	ND	
Vanadium (V)	4.0	14.4 (2)	13.5	13.7	11.9	ND	ND	
Zinc (Zn)	9.0	20.0	67.7 J	74.5 J	84.1 J	3.6 J	ND	

TABLE 1-1  
AIR FORCE PLANT 59  
SOIL DATA SUMMARY FOR METALS (SW6010, SW7060, SW7421, SW7471, SW7740, SW7841)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)		Method Blanks
			Field ID 59SW13SO1 Lab ID 657188	Field ID 59SW13SO2 Lab ID 657176	Field ID Lab ID	Equipment Field ID EB1111494 Lab ID 657201	(mg/kg) Lab ID 663795	
Aluminum (Al)	135	9650 (2)	6620 J	11000 J		143 U	ND	
Arsenic (As)	0.85	7.5	3.5	7.2		ND	0.319	
Barium (Ba)	0.65	39.15 (2)	34.3	52.8		4.3 U	ND	
Beryllium (Be)	0.60	0.16	0.35 J	0.50 J		ND	0.023	
Calcium (Ca)	68.0	3528 (2)	63100 J	1140 J		70.3 J	ND	
Cadmium (Cd)	1.5	1.0	ND	ND		ND	ND	
Cobalt (Co)	2.0	9.8 (2)	5.3	9.8		ND	ND	
Chromium (Cr)	2.5	10	8.0	13.3		ND	ND	
Copper (Cu)	3.0	24.6 (2)	24.5	48.6		ND	ND	
Iron (Fe)	38.5	2000	11600 J	19700 J		ND	6.618	
Mercury (Hg)	0.30	0.1	ND	ND		ND	ND	
Potassium (K)	530	872 (2)	801	844		ND	ND	
Magnesium (Mg)	52.0	3557.5 (2)	6900	3180		ND	ND	
Manganese (Mn)	5.5	410 (2)	418 J	480 J		ND	0.257	
Molybdenum (Mo)	11.0		ND	ND		ND	ND	
Sodium (Na)	380	168 (2)	219 J	301 J		867 U	ND	
Nickel (Ni)	8.5	13.0	10.9	18.6		ND	ND	
Lead (Pb)	0.30	18.6 (2)	9.9	13.3		ND	ND	
Selenium (Se)	0.80	2.0	ND	ND		ND	ND	
Vanadium (V)	4.0	14.4 (2)	10.6	16.3		ND	ND	
Zinc (Zn)	9.0	20.0	51.3 J	221 J		ND	ND	

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)		Method Blanks
			Field ID 59SW13SO3 Lab ID 657182	Field ID 59SW13SO4 Lab ID 657194	Field ID Lab ID	Equipment Field ID EB1111494 Lab ID 657201	(mg/kg) Lab ID 663795	
Aluminum (Al)	135	9650 (2)	5680 J	7210 J		143 U	ND	
Arsenic (As)	0.85	7.5	6.2	8.1		ND	0.319	
Barium (Ba)	0.65	39.15 (2)	34.9	57.9		4.3 U	ND	
Beryllium (Be)	0.60	0.16	0.41 J	0.35 J		ND	0.023	
Calcium (Ca)	68.0	3528 (2)	1240 J	2190 J		70.3 J	ND	
Cadmium (Cd)	1.5	1.0	ND	ND		ND	ND	
Cobalt (Co)	2.0	9.8 (2)	7.1	7.7		ND	ND	
Chromium (Cr)	2.5	10	8.2	9.2		ND	ND	
Copper (Cu)	3.0	24.6 (2)	36.5	49.5		ND	ND	
Iron (Fe)	38.5	2000	14300 J	18300 J		ND	6.618	
Mercury (Hg)	0.30	0.1	ND	ND		ND	ND	
Potassium (K)	530	872 (2)	712	741		ND	ND	
Magnesium (Mg)	52.0	3557.5 (2)	2030	2830		ND	ND	
Manganese (Mn)	5.5	410 (2)	407 J	552 J		ND	0.257	
Molybdenum (Mo)	11.0		ND	ND		ND	ND	
Sodium (Na)	380	168 (2)	150 J	115 J		867 U	ND	
Nickel (Ni)	8.5	13.0	12.3	14.2		ND	ND	
Lead (Pb)	0.30	18.6 (2)	11.0	19.9		ND	ND	
Selenium (Se)	0.80	2.0	ND	ND		ND	ND	
Vanadium (V)	4.0	14.4 (2)	10.8	12.0		ND	ND	
Zinc (Zn)	9.0	20.0	179 J	167 J		ND	ND	

TABLE 1-1  
AIR FORCE PLANT 59  
SOIL DATA SUMMARY FOR METALS (SW6010, SW7060, SW7421, SW7471, SW7740, SW7841)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)		Method Blanks
			Field ID 59DP18S01 Lab ID 624933	Field ID 59DP18S03 Lab ID 624942	Field ID Lab ID	Equipment Field ID 59EB10712 Lab ID 624916	(mg/kg) Lab ID 631257	
Aluminum (Al)	135	9650 (2)	8250	10200		98.5 J	12.780	
Arsenic (As)	0.85	7.5	55.4	18.2		ND	ND	
Barium (Ba)	0.65	39.15 (2)	41.8	27.9		ND	ND	
Beryllium (Be)	0.60	0.16	0.56 J	0.48 J		ND	ND	
Calcium (Ca)	68.0	3528 (2)	1230	229		100 U	13.376	
Cadmium (Cd)	1.5	1.0	ND	ND		ND	ND	
Cobalt (Co)	2.0	9.8 (2)	8.9	8.5		ND	ND	
Chromium (Cr)	2.5	10	10.5	12.3		ND	ND	
Copper (Cu)	3.0	24.6 (2)	41.4	15.6		ND	ND	
Iron (Fe)	38.5	2000	20100	20300		ND	ND	
Mercury (Hg)	0.30	0.1	ND	ND		ND	ND	
Potassium (K)	530	872 (2)	888	617 J		ND	ND	
Magnesium (Mg)	52.0	3557.5 (2)	2950	3080		ND	ND	
Manganese (Mn)	5.5	410 (2)	401	389		ND	ND	
Molybdenum (Mo)	11.0		ND	ND		ND	ND	
Sodium (Na)	380	168 (2)	150 U	116 U		563 U	31.543	
Nickel (Ni)	8.5	13.0	20.8	19.5		ND	ND	
Lead (Pb)	0.30	18.6 (2)	18.0	12.3		ND	ND	
Selenium (Se)	0.80	2.0	ND	ND		ND	ND	
Vanadium (V)	4.0	14.4 (2)	9.4	14.2		ND	ND	
Zinc (Zn)	9.0	20.0	44.7	51.2		9.9	ND	

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)		Method Blanks
			Field ID 59DP19S01 Lab ID 624939	Field ID 59DP19S03 Lab ID 624940	Field ID 59DP21S01 Lab ID 624941	Equipment Field ID 59EB10712 Lab ID 624916	(mg/kg) Lab ID 631257	
Aluminum (Al)	135	9650 (2)	9550	10600	8420	98.5 J	12.780	
Arsenic (As)	0.85	7.5	1.6	5.0	5.3	ND	ND	
Barium (Ba)	0.65	39.15 (2)	59.5	27.4	43.1	ND	ND	
Beryllium (Be)	0.60	0.16	0.68	0.46 J	0.48 J	ND	ND	
Calcium (Ca)	68.0	3528 (2)	12000	653	1520	100 U	13.376	
Cadmium (Cd)	1.5	1.0	ND	ND	ND	ND	ND	
Cobalt (Co)	2.0	9.8 (2)	11.9	10.0	8.3	ND	ND	
Chromium (Cr)	2.5	10	13.0	12.5	10.9	ND	ND	
Copper (Cu)	3.0	24.6 (2)	25.8	15.5	12.9	ND	ND	
Iron (Fe)	38.5	2000	22200	20200	16400	ND	ND	
Mercury (Hg)	0.30	0.1	ND	ND	ND	ND	ND	
Potassium (K)	530	872 (2)	1380	604 J	548 J	ND	ND	
Magnesium (Mg)	52.0	3557.5 (2)	5010	3190	2280	ND	ND	
Manganese (Mn)	5.5	410 (2)	385	465	428	ND	ND	
Molybdenum (Mo)	11.0		ND	ND	ND	ND	ND	
Sodium (Na)	380	168 (2)	168 J	150 U	252 J	563 U	31.543	
Nickel (Ni)	8.5	13.0	24.8	19.3	13.6	ND	ND	
Lead (Pb)	0.30	18.6 (2)	31.3	12.7	19.5	ND	ND	
Selenium (Se)	0.80	2.0	ND	ND	ND	ND	ND	
Vanadium (V)	4.0	14.4 (2)	19.6	14.3	12.5	ND	ND	
Zinc (Zn)	9.0	20.0	82.8	50.9	46.8	9.9	ND	

TABLE 1-1  
AIR FORCE PLANT 59  
SOIL DATA SUMMARY FOR METALS (SW6010, SW7060, SW7421, SW7471, SW7740, SW7841)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)	Method Blanks
			Field ID 59DP28S01 Lab ID 625879	Field ID 59DP28S09 Lab ID 625877	Field ID Lab ID	Equipment Field ID 59EB10714 Lab ID 625876	(mg/kg) Lab ID 631257
Aluminum (Al)	135	9650 (2)	6500	6680		120	12.780
Arsenic (As)	0.85	7.5	5.5	134		ND	ND
Barium (Ba)	0.65	39.15 (2)	29.7	259		ND	ND
Beryllium (Be)	0.60	0.16	0.29 J	0.80		ND	ND
Calcium (Ca)	68.0	3528 (2)	24300	57700		105 U	13.376
Cadmium (Cd)	1.5	1.0	0.53 J	7.2		ND	ND
Cobalt (Co)	2.0	9.8 (2)	6.3	31.7		ND	ND
Chromium (Cr)	2.5	10	11.0	103		ND	ND
Copper (Cu)	3.0	24.6 (2)	18.1	1040		ND	ND
Iron (Fe)	38.5	2000	13700	132000		61.0	ND
Mercury (Hg)	0.30	0.1	ND	ND		ND	ND
Potassium (K)	530	872 (2)	562 J	767		ND	ND
Magnesium (Mg)	52.0	3557.5 (2)	5630	3700		ND	ND
Manganese (Mn)	5.5	410 (2)	359	1190		ND	ND
Molybdenum (Mo)	11.0		ND	4060		ND	ND
Sodium (Na)	380	168 (2)	151 U	534		691 U	31.543
Nickel (Ni)	8.5	13.0	12.7	294		ND	ND
Lead (Pb)	0.30	18.6 (2)	13.3	6990		ND	ND
Selenium (Se)	0.80	2.0	ND	ND		ND	ND
Vanadium (V)	4.0	14.4 (2)	10.1	54.5		ND	ND
Zinc (Zn)	9.0	20.0	36.6	6500		ND	ND

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)	Method Blanks
			Field ID 59DP29S01 Lab ID 625880	Field ID 59DP29S02 Lab ID 625878	Field ID Lab ID	Equipment Field ID 59EB10714 Lab ID 625876	(mg/kg) Lab ID 631257
Aluminum (Al)	135	9650 (2)	7030	8210		120	12.780
Arsenic (As)	0.85	7.5	21.0	5.6		ND	ND
Barium (Ba)	0.65	39.15 (2)	46.5	45.6		ND	ND
Beryllium (Be)	0.60	0.16	0.38 J	0.40 J		ND	ND
Calcium (Ca)	68.0	3528 (2)	17500	1690		105 U	13.376
Cadmium (Cd)	1.5	1.0	ND	ND		ND	ND
Cobalt (Co)	2.0	9.8 (2)	7.6	10.1		ND	ND
Chromium (Cr)	2.5	10	10.6	12.9		ND	ND
Copper (Cu)	3.0	24.6 (2)	25.4	19.8		ND	ND
Iron (Fe)	38.5	2000	16600	20000		61.0	ND
Mercury (Hg)	0.30	0.1	0.18 J	ND		ND	ND
Potassium (K)	530	872 (2)	756	890		ND	ND
Magnesium (Mg)	52.0	3557.5 (2)	4660	3290		ND	ND
Manganese (Mn)	5.5	410 (2)	500	604		ND	ND
Molybdenum (Mo)	11.0		ND	ND		ND	ND
Sodium (Na)	380	168 (2)	112 U	140 U		691 U	31.543
Nickel (Ni)	8.5	13.0	15.5	19.8		ND	ND
Lead (Pb)	0.30	18.6 (2)	34.2	12.2		ND	ND
Selenium (Se)	0.80	2.0	ND	ND		ND	ND
Vanadium (V)	4.0	14.4 (2)	11.3	13.1		ND	ND
Zinc (Zn)	9.0	20.0	53.5	53.2		ND	ND



TABLE 1-1  
AIR FORCE PLANT 59  
SOIL DATA SUMMARY FOR METALS (SW6010, SW7060, SW7421, SW7471, SW7740, SW7841)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)	Method Blanks
			Field ID 59BH01SO1 Lab ID 648868	Field ID 59BH01SO2 Lab ID 648881	Field ID Lab ID	Equipment Field ID EB1101894 Lab ID 648834	(mg/kg) Lab ID 659327 (3)
Aluminum (Al)	135	9650 (2)	7650 J	7980 J		56.3 U	4.026
Arsenic (As)	0.85	7.5	9.8	8.7		ND	ND
Barium (Ba)	0.65	39.15 (2)	37.9	44.1		ND	ND
Beryllium (Be)	0.60	0.16	0.33 J	0.37 J		ND	ND
Calcium (Ca)	68.0	3528 (2)	3440 J	3650 J		48.2 U	0.623
Cadmium (Cd)	1.5	1.0	ND	ND UJ		ND	ND
Cobalt (Co)	2.0	9.8 (2)	9.4	9.4		ND	ND
Chromium (Cr)	2.5	10	9.8	14.0		8.1 J	ND
Copper (Cu)	3.0	24.6 (2)	22.7 J	26.8 J		ND	ND
Iron (Fe)	38.5	2000	18600 J	18000 J		42.2	6.061
Mercury (Hg)	0.30	0.1	ND	ND		ND	ND
Potassium (K)	530	872 (2)	723	854		ND	ND
Magnesium (Mg)	52.0	3557.5 (2)	2890 J	3040 J		ND	ND
Manganese (Mn)	5.5	410 (2)	416 J	486 J		ND	ND
Molybdenum (Mo)	11.0		ND	ND		ND	ND
Sodium (Na)	380	168 (2)	199 J	136 J		391 U	ND
Nickel (Ni)	8.5	13.0	17.1	17.9		ND	ND
Lead (Pb)	0.30	18.6 (2)	19.9	14.6		ND	ND
Selenium (Se)	0.80	2.0	ND	ND UJ		ND	ND
Vanadium (V)	4.0	14.4 (2)	11.9	12.8		ND	ND
Zinc (Zn)	9.0	20.0	63.6 J	50.7 J		10.9	ND

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)	Method Blanks
			Field ID 59BH02SO1 Lab ID 648887	Field ID 59BH02SO2 Lab ID 648893	Field ID 59BH02SO3 Lab ID 648902	Equipment Field ID EB1101894 Lab ID 648834	(mg/kg) Lab ID 659327 (3)
Aluminum (Al)	135	9650 (2)	8550 J	6590 J	7270 J	56.3 U	4.026
Arsenic (As)	0.85	7.5	10.0	8.0	8.5	ND	ND
Barium (Ba)	0.65	39.15 (2)	49.7	39.4	48.8	ND	ND
Beryllium (Be)	0.60	0.16	0.44 J	0.30 J	0.32 J	ND	ND
Calcium (Ca)	68.0	3528 (2)	1570 J	2550 J	1690 J	48.2 U	0.623
Cadmium (Cd)	1.5	1.0	ND	ND	3.1	ND	ND
Cobalt (Co)	2.0	9.8 (2)	10.3	7.4	8.8	ND	ND
Chromium (Cr)	2.5	10	11.8	10.6	13.9	8.1 J	ND
Copper (Cu)	3.0	24.6 (2)	33.3 J	28.5 J	26.4 J	ND	ND
Iron (Fe)	38.5	2000	21400 J	15900 J	17500 J	42.2	6.061
Mercury (Hg)	0.30	0.1	ND	ND	ND	ND	ND
Potassium (K)	530	872 (2)	901	611	681	ND	ND
Magnesium (Mg)	52.0	3557.5 (2)	2850 J	3340 J	2960 J	ND	ND
Manganese (Mn)	5.5	410 (2)	625 J	566 J	797 J	ND	ND
Molybdenum (Mo)	11.0		ND	ND	ND	ND	ND
Sodium (Na)	380	168 (2)	228 J	115 J	98.2 J	391 U	ND
Nickel (Ni)	8.5	13.0	16.7	13.9	88.2	ND	ND
Lead (Pb)	0.30	18.6 (2)	17.9	12.8	42.3	ND	ND
Selenium (Se)	0.80	2.0	ND	ND	ND	ND	ND
Vanadium (V)	4.0	14.4 (2)	14.1	10.7	11.5	ND	ND
Zinc (Zn)	9.0	20.0	70.2 J	85.4 J	291 J	10.9	ND

TABLE 1-1  
AIR FORCE PLANT 59  
SOIL DATA SUMMARY FOR METALS (SW6010, SW7060, SW7421, SW7471, SW7740, SW7841)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)	Method Blanks
			Field ID 59BH03SO1 Lab ID 648908	Field ID 59BH03SO2 Lab ID 648914	Field ID Lab ID	Equipment Field ID EB1101894 Lab ID 648834	(mg/kg) Lab ID 659327 (3)
Aluminum (Al)	135	9650 (2)	6640 J	3170 J		56.3 U	4.026
Arsenic (As)	0.85	7.5	10.7	6.8		ND	ND
Barium (Ba)	0.65	39.15 (2)	32.2	20.6		ND	ND
Beryllium (Be)	0.60	0.16	0.28 J	0.17 J		ND	ND
Calcium (Ca)	68.0	3528 (2)		61300 J		48.2 U	0.623
Cadmium (Cd)	1.5	1.0	ND UJ	ND		ND	ND
Cobalt (Co)	2.0	9.8 (2)	8.1	3.8		ND	ND
Chromium (Cr)	2.5	10	8.7	4.3		8.1 J	ND
Copper (Cu)	3.0	24.6 (2)	25.4 J	13.3 J		ND	ND
Iron (Fe)	38.5	2000	16100 J	7940 J		42.2	6.061
Mercury (Hg)	0.30	0.1	ND	ND		ND	ND
Potassium (K)	530	872 (2)	620	379 J		ND	ND
Magnesium (Mg)	52.0	3557.5 (2)	2400 J	8860 J		ND	ND
Manganese (Mn)	5.5	410 (2)	549 J	349 J		ND	ND
Molybdenum (Mo)	11.0		ND	ND		ND	ND
Sodium (Na)	380	168 (2)	150 U	128 J		391 U	ND
Nickel (Ni)	8.5	13.0	13.9	6.6 J		ND	ND
Lead (Pb)	0.30	18.6 (2)	10.6	9.1		ND	ND
Selenium (Se)	0.80	2.0	ND UJ	ND		ND	ND
Vanadium (V)	4.0	14.4 (2)	10.6	6.9		ND	ND
Zinc (Zn)	9.0	20.0	55.9 J	55.9 J		10.9	ND

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)	Method Blanks
			Field ID 59BH04SO1 Lab ID 649234	Field ID 59BH04SO3 Lab ID 649318	Field ID 59BH03SO3 Lab ID 649273	Equipment Field ID EB1101994 Lab ID 649361	(mg/kg) Lab ID 659327 (3)
Aluminum (Al)	135	9650 (2)	11700 J	9380 J	5660 J	57.4 U	4.026
Arsenic (As)	0.85	7.5	7.0	21.8	44.5	ND	ND
Barium (Ba)	0.65	39.15 (2)	24.4	61.8	41.8	ND	ND
Beryllium (Be)	0.60	0.16	0.48 J	0.68 J	0.27 J	ND	ND
Calcium (Ca)	68.0	3528 (2)	259 J	924 J	1650 J	65.8 U	0.623
Cadmium (Cd)	1.5	1.0	ND	ND	2.3	ND	ND
Cobalt (Co)	2.0	9.8 (2)	10.4	11.5	7.0	ND	ND
Chromium (Cr)	2.5	10	13.7	12.7	8.0	ND	ND
Copper (Cu)	3.0	24.6 (2)	17.8 J	54.3 J	22.2 J	ND	ND
Iron (Fe)	38.5	2000	20600 J	28100 J	13700 J	ND	6.061
Mercury (Hg)	0.30	0.1	ND	ND	ND	ND	ND
Potassium (K)	530	872 (2)	922	910	700	ND	ND
Magnesium (Mg)	52.0	3557.5 (2)	3560 J	2680 J	2050 J	ND	ND
Manganese (Mn)	5.5	410 (2)	404 J	553 J	591 J	ND	ND
Molybdenum (Mo)	11.0		ND	ND	ND	ND	ND
Sodium (Na)	380	168 (2)	116 J	94.6 J	79.2 J	521 U	ND
Nickel (Ni)	8.5	13.0	21.5	20.2	45.0	ND	ND
Lead (Pb)	0.30	18.6 (2)	11.0	16.2	17.2	ND	ND
Selenium (Se)	0.80	2.0	ND	ND	ND	ND	ND
Vanadium (V)	4.0	14.4 (2)	16.6	19.0	9.4	ND	ND
Zinc (Zn)	9.0	20.0	103 J	204 J	656 J	15.3	ND

TABLE 1-1  
AIR FORCE PLANT 59  
SOIL DATA SUMMARY FOR METALS (SW6010, SW7060, SW7421, SW7471, SW7740, SW7841)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)	Method Blanks
			Field ID 59BH04SO2 Lab ID 649261	Field ID 59BH04SO9 Lab ID 649246	Field ID Lab ID	Equipment Field ID EB1101994 Lab ID 649361	(mg/kg) Lab ID 659327 (3)
Aluminum ( Al)	135	9650 (2)	10900 J	12700 J		57.4 U	4.026
Arsenic (As)	0.85	7.5	7.9	8.5		ND	ND
Barium (Ba)	0.65	39.15 (2)	44.8	31.3		ND	ND
Beryllium (Be)	0.60	0.16	0.46 J	0.52 J		ND	ND
Calcium (Ca)	68.0	3528 (2)	253 J	220 J		65.8 U	0.623
Cadmium (Cd)	1.5	1.0	ND	ND		ND	ND
Cobalt (Co)	2.0	9.8 (2)	10.5	11.8		ND	ND
Chromium (Cr)	2.5	10	13.2	14.8		ND	ND
Copper (Cu)	3.0	24.6 (2)	20.8 J	45.7 J		ND	ND
Iron (Fe)	38.5	2000	19800 J	22400 J		ND	6.061
Mercury (Hg)	0.30	0.1	ND	ND		ND	ND
Potassium (K)	530	872 (2)	689	829		ND	ND
Magnesium (Mg)	52.0	3557.5 (2)	3280 J	3700 J		ND	ND
Manganese (Mn)	5.5	410 (2)	408 J	484 J		ND	ND
Molybdenum (Mo)	11.0		ND	ND		ND	ND
Sodium (Na)	380	168 (2)	96.1 J	113 J		521 U	ND
Nickel (Ni)	8.5	13.0	19.7	22.7		ND	ND
Lead (Pb)	0.30	18.6 (2)	13.9	19.3		ND	ND
Selenium (Se)	0.80	2.0	ND	ND		ND	ND
Vanadium (V)	4.0	14.4 (2)	15.4	17.8		ND	ND
Zinc (Zn)	9.0	20.0	112 J	325 J		15.3	ND

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)	Method Blanks
			Field ID 59BH05SO1 Lab ID 649255	Field ID 59BH05SO2 Lab ID 649267	Field ID 59BH05SO3 Lab ID 649279	Equipment Field ID EB1101994 Lab ID 649361	(mg/kg) Lab ID 659327 (3)
Aluminum ( Al)	135	9650 (2)	9890 J	13100 J	11200 J	57.4 U	4.026
Arsenic (As)	0.85	7.5	6.2	4.4	3.6	ND	ND
Barium (Ba)	0.65	39.15 (2)	46.1	93.7	38.0	ND	ND
Beryllium (Be)	0.60	0.16	0.40 J	0.59 J	0.47 J	ND	ND
Calcium (Ca)	68.0	3528 (2)	1730 J	838 J	391 J	65.8 U	0.623
Cadmium (Cd)	1.5	1.0	ND	ND	ND	ND	ND
Cobalt (Co)	2.0	9.8 (2)	9.2	9.9	9.3	ND	ND
Chromium (Cr)	2.5	10	11.4	14.4	13.8	ND	ND
Copper (Cu)	3.0	24.6 (2)	20.0 J	14.7 J	14.2 J	ND	ND
Iron (Fe)	38.5	2000	19000 J	18500 J	18900 J	ND	6.061
Mercury (Hg)	0.30	0.1	ND	ND	0.12 J	ND	ND
Potassium (K)	530	872 (2)	635	890	782	ND	ND
Magnesium (Mg)	52.0	3557.5 (2)	2980 J	3070 J	3480 J	ND	ND
Manganese (Mn)	5.5	410 (2)	321 J	376 J	298 J	ND	ND
Molybdenum (Mo)	11.0		ND	ND	ND	ND	ND
Sodium (Na)	380	168 (2)	124 J	117 J	106 J	521 U	ND
Nickel (Ni)	8.5	13.0	17.9	17.6	21.4	ND	ND
Lead (Pb)	0.30	18.6 (2)	11.4	11.4	11.5	ND	ND
Selenium (Se)	0.80	2.0	ND	ND	ND	ND	ND
Vanadium (V)	4.0	14.4 (2)	14.3	17.3	16.0	ND	ND
Zinc (Zn)	9.0	20.0	75.9 J	111 J	126 J	15.3	ND

TABLE 1-1  
AIR FORCE PLANT 59  
SOIL DATA SUMMARY FOR METALS (SW6010, SW7060, SW7421, SW7471, SW7740, SW7841)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)	Method Blank
			Field ID 59BH06SO2 Lab ID 649240	Field ID 59BH07SO1 Lab ID 649285	Field ID 59BH07SO2 Lab ID 649291	Equipment Field ID EB1101994 Lab ID 649361	(mg/kg) Lab ID 659327 (3)
Aluminum (Al)	135	9650 (2)	8390 J	7380 J	6920 J	57.4 U	4.026
Arsenic (As)	0.85	7.5	7.5	6.0	8.8	ND	ND
Barium (Ba)	0.65	39.15 (2)	43.2	51.3	56.2	ND	ND
Beryllium (Be)	0.60	0.16	0.42 J	0.40 J	0.32 J	ND	ND
Calcium (Ca)	68.0	3528 (2)	21700 J	10900 J	16000 J	65.8 U	0.623
Cadmium (Cd)	1.5	1.0	ND	ND	ND	ND	ND
Cobalt (Co)	2.0	9.8 (2)	7.9	7.5	7.4	ND	ND
Chromium (Cr)	2.5	10	10.6	10.6	8.9	ND	ND
Copper (Cu)	3.0	24.6 (2)	56.7 J	31.0 J	21.1 J	ND	ND
Iron (Fe)	38.5	2000	17500 J	14900 J	16100 J	ND	6.061
Mercury (Hg)	0.30	0.1	0.11 J	ND	0.13 J	ND	ND
Potassium (K)	530	872 (2)	788	799	782	ND	ND
Magnesium (Mg)	52.0	3557.5 (2)	4990 J	3690 J	13300 J	ND	ND
Manganese (Mn)	5.5	410 (2)	479 J	552 J	849 J	ND	ND
Molybdenum (Mo)	11.0		ND	ND	ND	ND	ND
Sodium (Na)	380	168 (2)	136 J	113 J	131 J	521 U	ND
Nickel (Ni)	8.5	13.0	16.3	13.1	15.3	ND	ND
Lead (Pb)	0.30	18.6 (2)	17.0	13.4	21.5	ND	ND
Selenium (Se)	0.80	2.0	ND	ND	ND	ND	ND
Vanadium (V)	4.0	14.4 (2)	13.2	12.1	10.9	ND	ND
Zinc (Zn)	9.0	20.0	203 J	86.4 J	96.0 J	15.3	ND

(1) Action Levels are from NYSDEC guidance for the Determination of Soil Cleanup Objectives and Cleanup Levels, January, 1994.

(2) Action Level based on background levels..

(3) Method Blank 655141 analyzed for As, Ca, Hg, Mo, Pb, Se, and Zn.

Qualifiers: UJ = Estimated for Non-detect

J = Estimated; U = Blank Contamination

TABLE 1-2  
 AIR FORCE PLANT 59  
 SOIL DATA SUMMARY FOR PCB/PESTICIDE (SW8080)

Parameters	PQL	Action Levels (l)	Environmental Samples (mg/kg)						Field Blanks (ug/L)						Method Blank (mg/kg)				
			Field ID 59BH01SO1 Lab ID 648864		Field ID 59BH01SO2 Lab ID 648880		Field ID 59BH01SO2 Lab ID 648880		Equipment EB1101894 Lab ID 648830		Equipment EB1101894 Lab ID 648830		Lab ID 650152		IC	2C	PR		
Aldrin	0.010	0.051-3.03	0.000015	0.000015	0.000015	0.00012	0.0010	0.0012	0.0010	0.0010	U	0.0010	0.0010	0.0010	0.0010	0.0010	0.0001	0.0001	0.0001
alpha-BHC	0.0025	0.01-0.60	ND	ND	ND	0.0001	0.0010	0.0012	0.0010	0.0010	U	0.0010	0.0012	0.0010	0.0010	0.0010	0.0001	0.0001	0.0001
beta-BHC	0.010	0.01-0.60	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	U	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
delta-BHC	0.00075	0.017-1.0	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	U	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
gamma-BHC (Lindane)	0.0025	0.003-0.171	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	U	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Decachlorobiphenyl (2)	20-150		0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	U	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
4,4 -DDD	0.010	0.407-24.3	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	U	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010
4,4 -DDE	0.015	0.233-13.9	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	U	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006
4,4 -DDT	0.010	0.129-7.70	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	U	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Dieldrin	0.010	0.006-0.338	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	U	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Endosulfan I	0.0050	0.043-2.58	0.0041	0.0041	0.0041	0.0041	0.0041	0.0041	0.0041	0.0041	U	0.0041	0.0041	0.0041	0.0041	0.0041	0.0041	0.0041	0.0041
Endosulfan II	0.020	0.042-2.54	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	U	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006
Endosulfan sulfate	0.020	0.053-3.17	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	U	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016
Endrin	0.010	0.005-0.289	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	U	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
Endrin aldehyde	0.015		0.0018	0.0018	0.0018	0.0018	0.0018	0.0018	0.0018	0.0018	U	0.0018	0.0018	0.0018	0.0018	0.0018	0.0018	0.0018	0.0018
Heptachlor epoxide	0.015	0.0001-0.007	0.0012	0.0012	0.0012	0.0012	0.0012	0.0012	0.0012	0.0012	U	0.0012	0.0012	0.0012	0.0012	0.0012	0.0012	0.0012	0.0012
Heptachlor	0.0025	0.006-0.379	0.0012	0.0012	0.0012	0.0012	0.0012	0.0012	0.0012	0.0012	U	0.0012	0.0012	0.0012	0.0012	0.0012	0.0012	0.0012	0.0012
Methoxychlor	0.030	47.5-2835.4	0.0045	0.0045	0.0045	0.0045	0.0045	0.0045	0.0045	0.0045	J	0.0045	0.0045	0.0045	0.0045	0.0045	0.0045	0.0045	0.0045
PCB-1254	0.020	0.093-5.53	0.0045	0.0045	0.0045	0.0045	0.0045	0.0045	0.0045	0.0045	J	0.0045	0.0045	0.0045	0.0045	0.0045	0.0045	0.0045	0.0045
PCB-1260	0.060	0.093-5.53	ND	ND	ND	ND	ND	ND	ND	ND	J	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloro-m-xylene (2)	20-150		0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	J	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016

TABLE 1-2  
 AIR FORCE PLANT 59  
 SOIL DATA SUMMARY FOR PCB/PESTICIDE (SW8080)

Parameters	PQL	Action Levels (l)	Environmental Samples (mg/kg)				Field Blanks (ug/L)				Method Blank (mg/kg)				
			Field ID 59BH02SO1 Lab ID 648886	IC	2C	PR	Field ID 59BH02SO2 Lab ID 648892	IC	2C	PR	Equipment Field ID EB1101894 Lab ID 648830	IC	2C	PR	
Aldrin	0.010	0.051-3.03	0.0006	0.000042	0.000042J	0.0001	0.0008	0.0001	U	0.0074	0.0098	0.0005	0.0001	0.0005	0.0001
alpha-BHC	0.0025	0.01-0.60	0.0003	0.0007	0.0003 J	0.0003	0.0014	0.0003	U	0.0097	0.024	0.0002	0.0002	0.0006	0.0002
beta-BHC	0.010	0.01-0.60	0.0003	0.0007	0.0003 J	0.0003	0.0014	0.0003	U	0.0097	0.024	0.0002	0.0002	0.0006	0.0002
delta-BHC	0.00075	0.017-1.0	0.0003	0.0007	0.0003 J	0.0003	0.0014	0.0003	U	0.0097	0.024	0.0002	0.0002	0.0006	0.0002
gamma-BHC (Lindane)	0.0025	0.003-0.171	0.0003	0.0007	0.0003 J	0.0003	0.0014	0.0003	U	0.0097	0.024	0.0002	0.0002	0.0006	0.0002
Decachlorobiphenyl (2)	20-150	0.407-24.3	0.0009	0.0001	0.0001 U	0.0003	0.0014	0.0003	U	0.0074	0.0098	0.0005	0.0005	0.0010	0.0005
4,4 -DDD	0.010	0.233-13.9	0.0006	0.0011	0.0006 J	0.0003	0.0014	0.0003	U	0.0097	0.024	0.0002	0.0002	0.0006	0.0002
4,4 -DDE	0.015	0.129-7.70	0.0006	0.0011	0.0006 J	0.0003	0.0014	0.0003	U	0.0097	0.024	0.0002	0.0002	0.0006	0.0002
4,4 -DDT	0.010	0.006-0.338	0.0003	0.0001	0.0001 U	0.0001	0.0003	0.0001	U	0.0097	0.024	0.0002	0.0002	0.0006	0.0002
Dieldrin	0.0050	0.043-2.58	0.0003	0.0001	0.0001 U	0.0001	0.0003	0.0001	U	0.0097	0.024	0.0002	0.0002	0.0006	0.0002
Endosulfan I	0.020	0.042-2.54	0.0003	0.0001	0.0001 U	0.0001	0.0003	0.0001	U	0.0097	0.024	0.0002	0.0002	0.0006	0.0002
Endosulfan II	0.020	0.053-3.17	0.0021	0.000049	0.000049J	0.0001	0.0014	0.0001	J	0.0081	0.027	0.0002	0.0002	0.0014	0.0002
Endosulfan sulfate	0.010	0.005-0.289	0.0003	0.0003	0.0003 U	0.0001	0.0003	0.0001	U	0.0081	0.027	0.0002	0.0002	0.0014	0.0002
Endrin	0.015	0.0001-0.007	0.0005	0.0001	0.0001 U	0.0001	0.0003	0.0001	U	0.0081	0.027	0.0002	0.0002	0.0014	0.0002
Heptachlor epoxide	0.015	0.006-0.379	0.0002	0.0003	0.0002 U	0.000032	0.0002	0.000032	J	0.017	0.017	0.0001	0.0001	0.0002	0.0001
Heptachlor	0.0025	47.5-2835.4	0.0064	0.0014	0.0014 J	0.000032	0.0002	0.000032	J	0.017	0.017	0.0001	0.0001	0.0002	0.0001
Methoxychlor	0.030	0.093-5.53	0.035	0.012	0.012 U	0.0098	0.013	0.0098	U	0.017	0.017	0.011	0.011	0.0080	0.0080
PCB-1254	0.020	0.093-5.53	0.035	0.012	0.012 U	0.0098	0.013	0.0098	U	0.017	0.017	0.011	0.011	0.0080	0.0080
PCB-1260	0.060	0.093-5.53	0.035	0.012	0.012 U	0.0098	0.013	0.0098	U	0.017	0.017	0.011	0.011	0.0080	0.0080
Tetrachloro-m-xylene (2)	20-150	0.093-5.53	0.035	0.012	0.012 U	0.0098	0.013	0.0098	U	0.017	0.017	0.011	0.011	0.0080	0.0080

TABLE 1-2  
 AIR FORCE PLANT 59  
 SOIL DATA SUMMARY FOR PCB/PESTICIDE (SW8080)

Parameters	PQL	Action Levels (l)	Environmental Samples (mg/kg)						Field Blanks (ug/L)						Method Blank (mg/kg)			
			Field ID 59BH02SO3 Lab ID 648901			Field ID 59BH03SO1 Lab ID 648907			Equipment Field ID EB1101894 Lab ID 648830			Lab ID 650152			IC	2C	PR	
			IC	2C	PR	IC	2C	PR	IC	2C	PR	IC	2C	PR				
Aldrin	0.010	0.051-3.03	0.0001	0.0008	0.0001	U	0.000044	0.0005	0.000044J	0.0001	0.0005	0.0001	0.0001	0.0005	0.0001	0.0005	0.0001	0.0001
alpha-BHC	0.0025	0.01-0.60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
beta-BHC	0.010	0.01-0.60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
delta-BHC	0.00075	0.017-1.0	0.0001	0.0001	0.0001	J	0.000027	0.0008	0.000027J	0.0001	0.0008	0.0001	0.0001	0.0008	0.0001	0.0008	0.0001	0.0001
gamma-BHC (Lindane)	0.0025	0.003-0.171	0.0001	0.0001	0.0001	0.017	0.000027	0.0008	0.000027J	0.0001	0.0008	0.0001	0.0001	0.0008	0.0001	0.0008	0.0001	0.0001
Decachlorobiphenyl (2)	20-150		0.0001	0.0008	0.0001	0.017	0.000027	0.0008	0.000027J	0.0001	0.0008	0.0001	0.0001	0.0008	0.0001	0.0008	0.0001	0.0001
4,4 -DDD	0.010	0.407-24.3	0.0001	0.0008	0.0001	0.017	0.000027	0.0008	0.000027J	0.0001	0.0008	0.0001	0.0001	0.0008	0.0001	0.0008	0.0001	0.0001
4,4 -DDE	0.015	0.233-13.9	0.0001	0.0008	0.0001	0.017	0.000027	0.0008	0.000027J	0.0001	0.0008	0.0001	0.0001	0.0008	0.0001	0.0008	0.0001	0.0001
4,4 -DDT	0.010	0.129-7.70	0.0001	0.0008	0.0001	0.017	0.000027	0.0008	0.000027J	0.0001	0.0008	0.0001	0.0001	0.0008	0.0001	0.0008	0.0001	0.0001
Dieldrin	0.010	0.006-0.338	0.0001	0.0003	0.0001	0.017	0.000040	0.0007	0.000040J	0.0001	0.0007	0.0001	0.0001	0.0007	0.0001	0.0007	0.0001	0.0001
Endosulfan I	0.0050	0.043-2.58	0.0001	0.0017	0.0001	0.017	0.0002	0.011	0.0002 U	0.0001	0.011	0.0002	0.0002	0.027	0.0002	0.027	0.0002	0.0002
Endosulfan II	0.020	0.042-2.54	0.0001	0.0017	0.0001	0.017	0.0002	0.011	0.0002 U	0.0001	0.011	0.0002	0.0002	0.027	0.0002	0.027	0.0002	0.0002
Endosulfan sulfate	0.020	0.053-3.17	0.0001	0.0017	0.0001	0.017	0.0002	0.011	0.0002 U	0.0001	0.011	0.0002	0.0002	0.027	0.0002	0.027	0.0002	0.0002
Endrin	0.010	0.005-0.289	0.0001	0.0004	0.0001	0.017	0.0001	0.0006	0.0001 U	0.0001	0.0006	0.0001	0.0001	0.0006	0.0001	0.0006	0.0001	0.0001
Endrin aldehyde	0.015	0.0001-0.007	0.0001	0.0004	0.0001	0.017	0.0001	0.0006	0.0001 U	0.0001	0.0006	0.0001	0.0001	0.0006	0.0001	0.0006	0.0001	0.0001
Heptachlor epoxide	0.015	0.006-0.379	0.0001	0.0003	0.0001	0.017	0.0001	0.0006	0.0001 U	0.0001	0.0006	0.0001	0.0001	0.0006	0.0001	0.0006	0.0001	0.0001
Heptachlor	0.0025	0.006-0.379	0.0001	0.0003	0.0001	0.017	0.0001	0.0006	0.0001 U	0.0001	0.0006	0.0001	0.0001	0.0006	0.0001	0.0006	0.0001	0.0001
Methoxychlor	0.030	47.5-2835.4	0.0083	0.014	0.0083	0.019	0.0001	0.0028	0.0001 U	0.0001	0.0028	0.0001	0.0001	0.017	0.011	0.017	0.0001	0.0001
PCB-1254	0.020	0.093-5.53	0.0083	0.014	0.0083	0.019	0.016	0.019	0.016 U	0.016	0.019	0.016	0.016	0.017	0.011	0.017	0.016	0.0080
PCB-1260	0.060	0.093-5.53	0.0083	0.014	0.0083	0.019	0.016	0.019	0.016 U	0.016	0.019	0.016	0.016	0.017	0.011	0.017	0.016	0.0080
Tetrachloro-m-xylene (2)	20-150		0.0083	0.014	0.0083	0.019	0.016	0.019	0.016 U	0.016	0.019	0.016	0.016	0.017	0.011	0.017	0.016	0.0080
																		0.014

TABLE I-2  
 AIR FORCE PLANT 59  
 SOIL DATA SUMMARY FOR PCB/PESTICIDE (SW8080)

Parameters	PQL	Action Levels (l)	Environmental Samples (mg/kg)						Field Blanks (ug/L)						Method Blank (mg/kg)			
			Field ID			Field ID			Field ID			Field ID			Field ID			
			IC	2C	PR	IC	2C	PR	IC	2C	PR	IC	2C	PR	IC	2C	PR	
Aldrin	0.010	0.051-3.03	0.0000361	0.00009	0.0000361	0.0000361												
alpha-BHC	0.0025	0.01-0.60	ND		ND													
beta-BHC	0.010	0.01-0.60	ND		ND													
delta-BHC	0.00075	0.017-1.0	ND		ND													
gamma-BHC (Lindane)	0.0025	0.003-0.171	0.018		0.018													
Decachlorobiphenyl (2)	20-150		ND		ND													
4,4 -DDD	0.010	0.407-24.3	0.0002	0.0007	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
4,4 -DDE	0.015	0.233-13.9	0.00029	0.0004	0.00029	0.00029	0.00029	0.00029	0.00029	0.00029	0.00029	0.00029	0.00029	0.00029	0.00029	0.00029	0.00029	0.00029
4,4 -DDT	0.010	0.129-7.70	0.0002	0.0004	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Dieldrin	0.010	0.006-0.338	0.0001	0.0003	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Endosulfan I	0.0050	0.043-2.58	0.0001	0.0003	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Endosulfan II	0.020	0.042-2.54	0.0001	0.0003	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Endosulfan sulfate	0.020	0.053-3.17	0.0005	0.0003	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
Endrin	0.010	0.005-0.289	0.0003	0.0005	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003
Endrin aldehyde	0.015		0.0002	0.0001	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Heptachlor epoxide	0.015	0.0001-0.007	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Heptachlor	0.0025	0.006-0.379	0.0002	0.0001	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Methoxychlor	0.030	47.5-2835.4	ND		ND													
PCB-1254	0.020	0.093-5.53	ND		ND													
PCB-1260	0.060	0.093-5.53	ND		ND													
Tetrachloro-m-xylene (2)	20-150		0.018		0.018													



TABLE I-2  
 AIR FORCE PLANT 59  
 SOIL DATA SUMMARY FOR PCB/PESTICIDE (SW8080)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)						Field Blanks (ug/L)						Method Blank (mg/kg)					
			59BH04SO1			59BH04SO9			Equipment			Lab ID			650152					
			IC	2C	PR	IC	2C	PR	IC	2C	PR	IC	2C	PR	IC	2C	PR			
Aldrin	0.010	0.051-3.03	0.0003	0.0007	0.0003	U	0.0009	0.0001	0.0001	0.0001	U					0.0001	0.0005	0.0001	0.0001	0.0001
alpha-BHC	0.0025	0.01-0.60			ND					ND						ND			ND	ND
beta-BHC	0.010	0.01-0.60			ND					ND						ND			ND	ND
delta-BHC	0.00075	0.017-1.0			ND					ND						ND			ND	ND
gamma-BHC (1,indane)	0.0025	0.003-0.171	0.0002	0.0002	0.0002	J				0.017						0.019			0.073	0.013
Decachlorobiphenyl (2)	20-150																			
4,4 -DDD	0.010	0.407-24.3	0.0002	0.0003	0.0002	J				0.0002						ND			ND	ND
4,4 -DDE	0.015	0.233-13.9	0.0001	0.0014	0.0001	U	0.0008	0.0002	0.0002	0.0001	U					0.0002	0.0010	0.0005	0.0005	0.0005
4,4 -DDT	0.010	0.129-7.70	0.0001	0.0002	0.0001	J	0.0006	0.0002	0.0002	0.0002	J					0.0002			ND	ND
Dieldrin	0.010	0.006-0.338	0.0001	0.0005	0.0001	J	0.0008	0.0002	0.0002	0.0002	J					0.0002	0.0006	0.0001	0.0001	0.0002
Endosulfan I	0.0050	0.043-2.58	0.0001	0.0008	0.0001	U	0.0011	0.0001	0.0001	0.0001	U					0.0001			ND	ND
Endosulfan II	0.020	0.042-2.54			ND					ND						ND			ND	ND
Endosulfan sulfate	0.020	0.053-3.17	0.0002	0.0002	0.0002	J	0.0015	0.0008	0.0008	0.0002	J					0.0008	0.0014	0.0002	0.0002	0.0002
Endrin	0.010	0.005-0.289			ND					ND						ND			ND	ND
Endrin aldehyde	0.015		0.0001	0.0005	0.0001	U	0.0005	0.0011	0.0011	0.0005	U					0.0005	0.0005	0.0005	0.0005	0.0002
Heptachlor epoxide	0.015	0.0001-0.007			ND					ND						ND			ND	ND
Heptachlor	0.0025	0.006-0.379			ND					ND						ND			ND	ND
Methoxychlor	0.030	47.5-2835.4			ND					ND						ND			ND	ND
PCB-1254	0.020	0.093-5.53	0.020	0.014	0.014	U	0.046	0.047	0.047	0.014	J	0.73	0.87			0.011	0.0080	0.011	0.0080	0.0080
PCB-1260	0.060	0.093-5.53			ND					ND						ND			ND	ND
Tetrachloro-m-xylene (2)	20-150				0.018					0.018						0.021			0.22	0.014

TABLE I-2  
 AIR FORCE PLANT 59  
 SOIL DATA SUMMARY FOR PCB/PESTICIDE (SW8080)

Parameters	PQL	Action Levels (l)	Environmental Samples (mg/kg)						Field Blanks (ug/L)						Methd Blank (mg/kg)	
			Field ID 59BH05SO1 Lab ID 649254	IC	2C	PR	Field ID 59BH06SO2 Lab ID 649239	IC	2C	PR	Equipment Field ID EBI101994 Lab ID 649360	IC	2C	PR	IC	2C
Aldrin	0.010	0.051-3.03	0.0005	0.0016	0.0005	J	0.0003	0.0031	0.0003	U	0.0003	0.0003	U	0.0001	0.0005	0.0001
alpha-BHC	0.0025	0.01-0.60	0.0011	0.0065	0.0011	J	0.000029	0.0004	0.000029	0.000029	ND	0.000029	ND	ND	ND	ND
beta-BHC	0.010	0.01-0.60	0.0057	0.0010	0.0010	J	0.0001	0.0004	0.0001	J	0.0001	0.0004	0.0001	ND	ND	ND
delta-BHC	0.00075	0.017-1.0	0.0056	0.024	0.014	J	0.0021	0.0005	0.0005	J	0.0021	0.0005	0.0005	0.073	0.013	0.013
gamma-BHC (Lindane)	0.0025	0.003-0.171	0.0012	0.0045	0.0012	U	0.0002	0.0012	0.0002	U	0.0002	0.0012	0.0002	ND	ND	ND
Decachlorobiphenyl (2)	20-150	0.407-24.3	0.0039	0.0090	0.0039	J	0.0001	0.0001	0.0001	J	0.0001	0.0001	0.0001	0.0005	0.0010	0.0005
4,4 -DDD	0.010	0.233-13.9	0.0003	0.036	0.0003	J	0.0006	0.0029	0.0006	U	0.0006	0.0029	0.0006	0.0002	0.0006	0.0002
4,4 -DDE	0.015	0.129-7.70	0.0003	0.044	0.0003	J	0.0003	0.017	0.0003	J	0.0003	0.017	0.0003	ND	0.0014	ND
4,4 -DDT	0.010	0.006-0.338	0.043	0.044	0.043	J	0.0031	0.0022	0.0031	J	0.0031	0.0022	0.0022	0.0002	0.0004	0.0002
Dieldrin	0.010	0.043-2.58	0.0003	0.044	0.043	J	0.0005	0.0001	0.0005	U	0.0005	0.0001	0.0001	0.0005	0.0001	0.0001
Endosulfan I	0.0050	0.042-2.54	0.0003	0.036	0.0003	J	0.016	0.015	0.016	J	0.016	0.015	0.015	0.0001	0.0002	0.0001
Endosulfan II	0.020	0.053-3.17	0.043	0.044	0.043	J	0.0005	0.0001	0.0005	U	0.0005	0.0001	0.0001	0.0001	0.0002	0.0001
Endosulfan sulfate	0.020	0.005-0.289	0.043	0.044	0.043	J	0.016	0.015	0.016	J	0.016	0.015	0.015	0.0001	0.0002	0.0001
Endrin	0.010	0.001-0.007	0.0003	0.044	0.043	J	0.0005	0.0001	0.0005	U	0.0005	0.0001	0.0001	0.0001	0.0002	0.0001
Endrin aldehyde	0.015	0.006-0.379	0.043	0.044	0.043	J	0.016	0.015	0.016	J	0.016	0.015	0.015	0.0001	0.0002	0.0001
Heptachlor epoxide	0.015	47.5-2835.4	0.043	0.044	0.043	J	0.016	0.015	0.016	J	0.016	0.015	0.015	0.0001	0.0002	0.0001
Heptachlor	0.0025	0.093-5.53	0.043	0.044	0.043	J	0.016	0.015	0.016	J	0.016	0.015	0.015	0.0001	0.0002	0.0001
Methoxychlor	0.030	0.093-5.53	0.043	0.044	0.043	J	0.016	0.015	0.016	J	0.016	0.015	0.015	0.0001	0.0002	0.0001
PCB-1254	0.020	0.093-5.53	0.043	0.044	0.043	J	0.016	0.015	0.016	J	0.016	0.015	0.015	0.0001	0.0002	0.0001
PCB-1260	0.060	0.093-5.53	0.043	0.044	0.043	J	0.016	0.015	0.016	J	0.016	0.015	0.015	0.0001	0.0002	0.0001
Tetrachloro-m-xylene (2)	20-150	0.093-5.53	0.043	0.044	0.043	J	0.016	0.015	0.016	J	0.016	0.015	0.015	0.0001	0.0002	0.0001

TABLE I-2  
 AIR FORCE PLANT 59  
 SOIL DATA SUMMARY FOR PCB/PESTICIDE (SW8080)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/L)			Method Blank (mg/kg)											
			Field ID Lab ID	IC	2C	PR	Field ID Lab ID	IC	2C	PR	Field ID Lab ID	IC	2C	PR						
Aldrin	0.010	0.051-3.03	59BH03SO3																	
alpha-BHC	0.0025	0.01-0.60	Lab ID	649272																
beta-BHC	0.010	0.01-0.60																		
delta-BHC	0.00075	0.017-1.0																		
gamma-BHC (Lindane)	0.0025	0.003-0.171																		
Decachlorobiphenyl (2)	20-150																			
4,4 -DDD	0.010	0.407-24.3																		
4,4 -DDE	0.015	0.233-13.9																		
4,4 -DDT	0.010	0.129-7.70																		
Dieldrin	0.010	0.006-0.338																		
Endosulfan I	0.0050	0.043-2.58																		
Endosulfan II	0.020	0.042-2.54																		
Endosulfan sulfate	0.020	0.053-3.17																		
Endrin	0.010	0.005-0.289																		
Endrin aldehyde	0.015																			
Heptachlor epoxide	0.015	0.0001-0.007																		
Heptachlor	0.0025	0.006-0.379																		
Methoxychlor	0.030	47.5-2835.4																		
PCB-1254	0.020	0.093-5.53																		
PCB-1260	0.060	0.093-5.53																		
Tetrachloro-m-xylene (2)	20-150																			

TABLE I-2  
 AIR FORCE PLANT 59  
 SOIL DATA SUMMARY FOR PCB/PESTICIDE (SW8080)

Parameters	PQL	Action Levels (l)	Environmental Samples (mg/kg)						Field Blanks (ug/L)				Method Blank (mg/kg)				
			IC	12C	PR	IC	2C	PR	IC	2C	PR	IC	2C	PR			
Aldrin	0.010	0.051-3.03			ND												ND
alpha-BHC	0.0025	0.01-0.60			ND												ND
beta-BHC	0.010	0.01-0.60			ND												ND
delta-BHC	0.00075	0.017-1.0			ND												ND
gamma-BHC (Lindane)	0.0025	0.003-0.171			ND												ND
Decachlorobiphenyl (2)	20-150				0.017												0.015
4,4 -DDD	0.010	0.407-24.3			ND												ND
4,4 -DDE	0.015	0.233-13.9			ND												ND
4,4 -DDT	0.010	0.129-7.70			ND												ND
Dieldrin	0.010	0.006-0.338			ND												ND
Endosulfan I	0.0050	0.043-2.58			ND												ND
Endosulfan II	0.020	0.042-2.54			ND												ND
Endosulfan sulfate	0.020	0.053-3.17			ND												ND
Endrin	0.010	0.005-0.289			ND												ND
Endrin aldehyde	0.015				ND												ND
Heptachlor epoxide	0.015	0.0001-0.007			ND												ND
Heptachlor	0.0025	0.006-0.379			ND												ND
Methoxychlor	0.030	47.5-2835.4			ND												ND
PCB-1254	0.020	0.093-5.53			ND				0.73			0.87				0.73	ND
PCB-1260	0.060	0.093-5.53			ND												ND
Tetrachloro-m-xylene (2)	20-150				0.017												0.016

TABLE 1-2  
AIR FORCE PLANT 59  
SOIL DATA SUMMARY FOR PCB/PESTICIDE (SW8080)

Parameters	PQL	Action Levels (l)	Environmental Samples (mg/kg)						Field Blanks (ug/L)						Method Blank (mg/kg)			
			59BH05SO2			59BH05SO3			Equipment Field ID EB1101994			Lab ID 649360			Lab ID 650637			
			IC	2C	PR	IC	2C	PR	IC	2C	PR	IC	2C	PR	IC	2C		
Aldrin	0.010	0.051-3.03				ND												ND
alpha-BHC	0.0025	0.01-0.60				ND												ND
beta-BHC	0.010	0.01-0.60				ND												ND
delta-BHC	0.00075	0.017-1.0				ND												ND
gamma-BHC (Lindane)	0.0025	0.003-0.171				ND												ND
Decachlorobiphenyl (2)	20-150					0.017												0.073
4,4 -DDD	0.010	0.407-24.3				ND												ND
4,4 -DDE	0.015	0.233-13.9				ND												ND
4,4 -DDT	0.010	0.129-7.70				ND												ND
Dieldrin	0.010	0.006-0.338				ND												ND
Endosulfan I	0.0050	0.043-2.58				ND												ND
Endosulfan II	0.020	0.042-2.54				ND												ND
Endosulfan sulfate	0.020	0.053-3.17				ND												ND
Endrin	0.010	0.005-0.289				ND												ND
Endrin aldehyde	0.015					ND												ND
Heptachlor epoxide	0.015	0.0001-0.007				ND												ND
Heptachlor	0.0025	0.006-0.379				ND												ND
Methoxychlor	0.030	47.5-2835.4				ND												ND
PCB-1254	0.020	0.093-5.53				ND						0.73			0.87			0.73
PCB-1260	0.060	0.093-5.53				ND												ND
Tetrachloro-m-xylene (2)	20-150					0.018												0.22
																		0.021
																		0.016

TABLE 1-2  
 AIR FORCE PLANT 59  
 SOIL DATA SUMMARY FOR PCB/PESTICIDE (SW8080)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)						Field Blanks (ug/L)			Method Blank (mg/kg)			
			Field ID 59BH07SO1 Lab ID 649284			Field ID 59BH07SO2 Lab ID 649290			Equipment Field ID EB1101994 Lab ID 649360			Lab ID 650637			
			IC	2C	PR	IC	2C	PR	IC	2C	PR	IC	2C	PR	
Aldrin	0.010	0.051-3.03	0.0015	0.0016	0.0015	J	0.0018	0.0014	0.0014	J	0.0014	J	ND	ND	ND
alpha-BHC	0.0025	0.01-0.60	ND	ND	ND	ND	0.0005	0.0049	0.0005	J	0.0005	J	ND	ND	ND
beta-BHC	0.010	0.01-0.60	0.0046	0.0004	0.0004	J	0.0005	0.0049	0.0005	J	0.0005	J	ND	ND	ND
delta-BHC	0.00075	0.017-1.0	0.0017	0.0030	0.0017	J	0.0033	0.0019	0.0019	J	0.0019	J	ND	ND	ND
gamma-BHC (Lindane)	0.0025	0.003-0.171	0.0017	0.0030	0.0017	J	0.0033	0.0019	0.0019	J	0.0019	J	ND	ND	ND
Decachlorobiphenyl (2)	20-150		0.016	0.0004	0.0004	J	0.0005	0.018	0.0005	J	0.0005	J	0.073	0.015	0.015
4,4 -DDD	0.010	0.407-24.3	0.0020	0.0010	0.0010	J	0.0017	0.0027	0.0016	J	0.0016	J	ND	ND	ND
4,4 -DDE	0.015	0.233-13.9	0.017	0.0030	0.0017	J	0.0033	0.0019	0.0019	J	0.0019	J	ND	ND	ND
4,4 -DDT	0.010	0.129-7.70	0.016	0.0004	0.0004	J	0.0005	0.018	0.0005	J	0.0005	J	ND	ND	ND
Dieldrin	0.010	0.006-0.338	0.0020	0.0010	0.0010	J	0.0017	0.0027	0.0016	J	0.0016	J	ND	ND	ND
Endosulfan I	0.0050	0.043-2.58	0.0020	0.0010	0.0010	J	0.0017	0.0027	0.0016	J	0.0016	J	ND	ND	ND
Endosulfan II	0.020	0.042-2.54	0.017	0.0030	0.0017	J	0.0033	0.0019	0.0019	J	0.0019	J	ND	ND	ND
Endosulfan sulfate	0.020	0.053-3.17	0.017	0.0030	0.0017	J	0.0033	0.0019	0.0019	J	0.0019	J	ND	ND	ND
Endrin	0.010	0.005-0.289	0.020	0.0073	0.0020	J	0.024	0.079	0.079	J	0.079	J	0.73	0.87	0.73
Endrin aldehyde	0.015		0.020	0.073	0.020	J	0.24	0.079	0.079	J	0.079	J	0.73	0.87	0.73
Heptachlor epoxide	0.015	0.0001-0.007	0.020	0.073	0.020	J	0.24	0.079	0.079	J	0.079	J	0.73	0.87	0.73
Heptachlor	0.0025	0.006-0.379	0.017	0.12	0.017	J	0.12	0.019	0.012	J	0.012	J	0.73	0.87	0.73
Methoxychlor	0.030	47.5-2835.4	0.017	0.12	0.017	J	0.12	0.019	0.012	J	0.012	J	0.73	0.87	0.73
PCB-1254	0.020	0.093-5.53	0.020	0.073	0.020	J	0.24	0.079	0.079	J	0.079	J	0.73	0.87	0.73
PCB-1260	0.060	0.093-5.53	0.020	0.073	0.020	J	0.24	0.079	0.079	J	0.079	J	0.73	0.87	0.73
Tetrachloro-m-xylene (2)	20-150		0.020	0.073	0.020	J	0.24	0.079	0.079	J	0.079	J	0.73	0.87	0.73

TABLE I-2  
AIR FORCE PLANT 59  
SOIL DATA SUMMARY FOR PCB/PESTICIDE (SW8080)

Parameters	PQL	Action Levels (l)	Environmental Samples (mg/kg)						Field Blanks (ug/L)			Method Blank (mg/kg)							
			IC	2C	PR	IC	2C	PR	IC	2C	PR	IC	2C	PR					
Aldrin	0.010	0.051-3.03						Equipment											
alpha-BHC	0.0025	0.01-0.60			ND			Field ID											
beta-BHC	0.010	0.01-0.60			ND			EB1101994											
delta-BHC	0.00075	0.017-1.0			ND			Lab ID 649360											
gamma-BHC (Lindane)	0.0025	0.003-0.171			0.0006 U										0.0002		0.0002		0.0002
Decachlorobiphenyl (2)	20-150				0.012														0.014
4,4 -DDD	0.010	0.407-24.3			ND														ND
4,4 -DDE	0.015	0.233-13.9			ND														ND
4,4 -DDT	0.010	0.129-7.70			0.0013 J														ND
Dieldrin	0.010	0.006-0.338			0.0008 J										0.0001		0.0007		0.0001
Endosulfan I	0.0050	0.043-2.58			0.0002 J														ND
Endosulfan II	0.020	0.042-2.54			ND														ND
Endosulfan sulfate	0.020	0.053-3.17			ND										0.0007		0.0009		0.0007
Endrin	0.010	0.005-0.289			0.0007 J														ND
Endrin aldehyde	0.015				0.014 J														ND
Heptachlor epoxide	0.015	0.0001-0.007			0.0049 J														ND
Heptachlor	0.0025	0.006-0.379			0.0002 J														ND
Methoxychlor	0.030	47.5-2835.4			0.0006 J														ND
PCB-1254	0.020	0.093-5.53			ND				0.73				0.87						0.73 J
PCB-1260	0.060	0.093-5.53			ND														ND
Tetrachloro-m-xylene (2)	20-150				0.013														0.22

TABLE 1-2  
 AIR FORCE PLANT 59  
 SOIL DATA SUMMARY FOR PCB/PESTICIDE (SW8080)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)						Field Blanks (ug/L)						Method Blank (mg/kg)	
			59BH08SO1			59BH08SO2			Equipment			Lab ID 649801			Lab ID 650626	
			IC	2C	PR	IC	2C	PR	IC	2C	PR	IC	2C	PR	IC	2C
Aldrin	0.010	0.051-3.03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
alpha-BHC	0.0025	0.01-0.60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
beta-BHC	0.010	0.01-0.60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
delta-BHC	0.00075	0.017-1.0	ND	ND	ND	ND	0.0045	0.0028	0.0028	U	0.0045	0.0028	0.0028	U	0.0028	ND
gamma-BHC (Lindane)	0.0025	0.003-0.171	ND	ND	ND	ND	0.0037	0.0020	0.0020	U	0.0037	0.0020	0.0020	U	0.0020	0.0002
Decachlorobiphenyl (2)	20-150		0.019	0.0085	0.0085	0.0085	0.0075	0.0075	0.0075	J	0.0075	0.0075	0.0075	J	0.065	0.014
4,4 -DDD	0.010	0.407-24.3	0.0001	J	ND	ND	0.0075	0.0075	0.0075	J	0.0075	0.0075	0.0075	J	0.0050	ND
4,4 -DDE	0.015	0.233-13.9	0.0001	J	0.0008	J	0.0008	0.0008	0.0008	J	0.0008	0.0008	0.0008	J	ND	ND
4,4 -DDT	0.010	0.129-7.70	0.0004	J	0.0014	J	0.0014	0.0014	0.0014	J	0.0014	0.0014	0.0014	J	ND	ND
Dieldrin	0.010	0.006-0.338	0.0003	U	0.0003	U	0.018	0.0085	0.0085	U	0.018	0.0085	0.0085	U	0.0001	0.0001
Endosulfan I	0.0050	0.043-2.58	0.0002	J	ND	ND	0.024	0.0089	0.0089	U	0.024	0.0089	0.0089	U	0.0007	0.0007
Endosulfan II	0.020	0.042-2.54	0.0007	U	0.0001	U	0.024	0.0089	0.0089	U	0.024	0.0089	0.0089	U	0.0007	0.0009
Endosulfan sulfate	0.020	0.053-3.17	0.0002	J	ND	ND	0.048	0.0065	0.0065	U	0.048	0.0065	0.0065	U	ND	ND
Endrin	0.010	0.005-0.289	ND	ND	ND	ND	0.0042	0.010	0.0042	J	0.0042	0.010	0.0042	J	ND	ND
Endrin aldehyde	0.015		0.0045	J	0.0036	J	0.0027	0.0027	0.0027	U	0.0027	0.0027	0.0027	U	ND	ND
Heptachlor epoxide	0.015	0.0001-0.007	0.0011	J	0.0009	J	0.0027	0.0027	0.0027	U	0.0027	0.0027	0.0027	U	ND	ND
Heptachlor	0.0025	0.006-0.379	ND	ND	ND	ND	0.0027	0.0027	0.0027	U	0.0027	0.0027	0.0027	U	ND	ND
Methoxychlor	0.030	47.5-2835.4	ND	ND	ND	ND	0.0027	0.0027	0.0027	U	0.0027	0.0027	0.0027	U	ND	ND
PCB-1254	0.020	0.093-5.53	ND	ND	ND	ND	0.0027	0.0027	0.0027	U	0.0027	0.0027	0.0027	U	ND	ND
PCB-1260	0.060	0.093-5.53	ND	ND	ND	ND	0.0027	0.0027	0.0027	U	0.0027	0.0027	0.0027	U	ND	ND
Tetrachloro-m-xylene (2)	20-150		0.022		0.011		0.011	0.011	0.011		0.011	0.011	0.011		0.16	0.015





TABLE 1-2  
 AIR FORCE PLANT 59  
 SOIL DATA SUMMARY FOR PCB/PESTICIDE (SW8080)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)						Field Blanks (ug/L)						Method Blank (mg/kg)			
			Field ID 59BH08S09 Lab ID 649844			Field ID 59BH09S02 Lab ID 649871			Equipment Field ID EBI102094 Lab ID 649801			Lab ID 650642			IC	2C	PR	
			IC	2C	PR	IC	2C	PR	IC	2C	PR	IC	2C	PR				
Aldrin	0.010	0.051-3.03	0.0017	0.0010	0.0010	J	0.0002	0.0013	0.0002	U	0.0002	0.0002	0.0002	0.0006	0.0002	0.0002	0.0002	
alpha-BHC	0.0025	0.01-0.60		ND			0.000039	0.0005		0.000039J							ND	
beta-BHC	0.010	0.01-0.60		ND						ND								ND
delta-BHC	0.00075	0.017-1.0		ND			0.0001	0.0002	0.0001	J	0.0045	0.0028	0.0028	0.0006	0.0028	0.0028	0.0028	U
gamma-BHC (Lindane)	0.0025	0.003-0.171		ND			0.0001	0.0002	0.0001	J	0.0037	0.0020	0.0020	0.0006	0.0020	0.0020	0.0020	U
Decachlorobiphenyl (2)	20-150			0.017						0.017								0.065
4,4 -DDD	0.010	0.407-24.3	0.0008	0.0014	0.0008	J	0.0014	0.0003	0.0003	J	0.0075	0.0075	0.0075	0.0005	0.0075	0.0075	0.0050	J
4,4 -DDE	0.015	0.233-13.9	0.0004	0.0006	0.0004	U	0.0001	0.0018	0.0001	U				0.0005			ND	0.0005
4,4 -DDT	0.010	0.129-7.70	0.0008	0.0005	0.0005	J	0.0001	0.0011	0.0001	J							ND	0.0005
Dieldrin	0.010	0.006-0.338	0.0003	0.0004	0.0003	U	0.0003	0.0028	0.0003	U	0.018	0.0085	0.0085	0.0020	0.0085	0.0020	0.0085	U
Endosulfan I	0.0050	0.043-2.58	0.0009	0.0060	0.0009	J												0.0001
Endosulfan II	0.020	0.042-2.54	0.0003	0.0012	0.0003	J	0.0005	0.0005	0.0005	J	0.024	0.0089	0.0089	0.0005	0.0089	0.0005	0.0089	U
Endosulfan sulfate	0.020	0.053-3.17	0.0006	0.0025	0.0006	J	0.0002	0.0014	0.0002	J								ND
Endrin	0.010	0.005-0.289	0.0036	0.0002	0.0002	J												ND
Heptachlor epoxide	0.015	0.0001-0.007	0.0006	0.0016	0.0006	J	0.0017	0.0015	0.0015	J	0.048	0.0065	0.0065	0.0002	0.0065	0.0002	0.0065	U
Heptachlor epoxide	0.0025	0.006-0.379	0.0008	0.0009	0.0008	J	0.0001	0.0003	0.0001	U	0.0042	0.010	0.0042	0.0001	0.010	0.0042	0.0042	J
Methoxychlor	0.030	47.5-2835.4	0.027	0.0007	0.0007	U	0.0009	0.0010	0.0009	U	0.0027	0.0027	0.0027	0.0001	0.0027	0.0001	0.0027	U
PCB-1254	0.020	0.093-5.53																ND
PCB-1260	0.060	0.093-5.53																ND
Tetrachloro-m-xylene (2)	20-150				0.020					0.021								0.16





TABLE 1-2  
 AIR FORCE PLANT 59  
 SOIL DATA SUMMARY FOR PCB/PESTICIDE (SW8080)

Parameters	PQL	Action Levels (l)	Environmental Samples (mg/kg)						Field Blanks (ug/L)						Method Blank (mg/kg)		
			Field ID 59BH10SO1 Lab ID 650125	IC	2C	PR	Field ID 59BH10SO2 Lab ID 650131	IC	2C	PR	Equipment Field ID EB1102194 Lab ID 650096	IC	2C	PR	IC	2C	PR
Aldrin	0.010	0.051-3.03	0.0009	0.00046	0.000046J	0.0001	0.0001	0.0001	U					0.0006	0.0002	0.0002	
alpha-BHC	0.0025	0.01-0.60		ND			ND									ND	
beta-BHC	0.010	0.01-0.60		ND			ND									ND	
delta-BHC	0.00075	0.017-1.0		ND		0.000039J	0.0002	0.000039J								ND	
gamma-BHC (Lindane)	0.0025	0.003-0.171	0.0001	0.0002	0.0001 J	0.0002	0.0017	0.0002 J								ND	
Decachlorobiphenyl (2)	20-150			0.013				0.016								0.092	
4,4 -DDD	0.010	0.407-24.3		ND				ND								ND	
4,4 -DDE	0.015	0.233-13.9	0.0014	0.000021	0.000021J	0.0002	0.0010	0.0002 U						0.0005	0.0006	0.0005	
4,4 -DDT	0.010	0.129-7.70	0.0003	0.0003	0.0003 J	0.0007	0.0002	0.0002 J								ND	
Dieldrin	0.010	0.006-0.338		ND		0.0002	0.0002	0.0002 U		0.014	0.0069	0.0069	U	0.0020	0.0001	0.0001	
Endosulfan I	0.0050	0.043-2.58		ND		0.0015	0.0003	0.0003 U						0.0005	0.0001	0.0001	
Endosulfan II	0.020	0.042-2.54		ND		0.0002	0.0002	0.0002 J		0.016	0.0097	0.0097	U			ND	
Endosulfan sulfate	0.020	0.053-3.17		ND		0.0015	0.0051	0.0015 J								ND	
Endrin	0.010	0.005-0.289	0.0006	0.0001	0.0001 J	0.0005	0.0012	0.0005 J								ND	
Endrin aldehyde	0.015		0.0003	0.0003	0.0003 J	0.0008	0.0003	0.0003 J		0.37	0.0070	0.0070	U			ND	
Heptachlor epoxide	0.015	0.0001-0.007	0.0001	0.0001	0.0001 U	0.0012	0.0001	0.0001 U						0.0002	0.0001	0.0001	
Heptachlor	0.0025	0.006-0.379		ND		0.0001	0.0001	0.0001 U		0.0026	0.0067	0.0026	U	0.0001	0.0001	0.0001	
Methoxychlor	0.030	47.5-2835.4		ND		0.0042	0.013	0.0042 J						0.0005	0.0006	0.0005	
PCB-1254	0.020	0.093-5.53		ND												ND	
PCB-1260	0.060	0.093-5.53		ND												ND	
Tetrachloro-m-xylene (2)	20-150			0.015				0.016								0.18	

TABLE 1-2  
 AIR FORCE PLANT 59  
 SOIL DATA SUMMARY FOR PCB/PESTICIDE (SW8080)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)						Field Blanks (ug/L)						
			59BH10S03			59BH11S01			Equipment			Lab ID 650642			
			Field ID 59BH10S03 Lab ID 650119	IC	2C	PR	Field ID 59BH11S01 Lab ID 650107	IC	2C	PR	Field ID EB1102194 Lab ID 650096	IC	2C	PR	
Aldrin	0.010	0.051-3.03	0.0007	0.0016	0.0007	U	ND	ND	0.0002	0.0006	0.0002	0.0002	0.0002	0.0002	0.0002
alpha-BHC	0.0025	0.01-0.60	0.0043	0.015	0.0043	J	ND	ND	ND	ND	ND	ND	ND	ND	ND
beta-BHC	0.010	0.01-0.60	0.0075	0.0021	0.0021	J	ND	ND	ND	ND	ND	ND	ND	ND	ND
delta-BHC	0.00075	0.017-1.0	0.025	0.0021	0.0021	J	ND	ND	ND	ND	ND	ND	ND	ND	ND
gamma-BHC (Lindane)	0.0025	0.003-0.171	0.012	0.012	0.012		0.016	0.092	0.015	0.015	0.015	0.015	0.015	0.015	0.015
Decachlorobiphenyl (2)	20-150		ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4 -DDD	0.010	0.407-24.3	0.039	0.0028	0.0028	J	0.0017	0.0030	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017
4,4 -DDE	0.015	0.233-13.9	0.013	0.0080	0.0080	J	0.0029	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004
4,4 -DDT	0.010	0.129-7.70	0.013	0.0080	0.0080	J	0.0088	0.077	0.0088	0.0088	0.0088	0.0088	0.0088	0.0088	0.0088
Dieldrin	0.010	0.006-0.338	0.014	0.0028	0.0028	J	0.0018	0.0014	0.0014	0.0014	0.0014	0.0014	0.0014	0.0014	0.0014
Endosulfan I	0.0050	0.043-2.58	0.014	0.0028	0.0028	J	0.0018	0.0014	0.0014	0.0014	0.0014	0.0014	0.0014	0.0014	0.0014
Endosulfan II	0.020	0.042-2.54	0.025	0.012	0.012	J	0.0029	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004
Endosulfan sulfate	0.020	0.053-3.17	0.025	0.012	0.012	J	0.0088	0.077	0.0088	0.0088	0.0088	0.0088	0.0088	0.0088	0.0088
Endrin	0.010	0.005-0.289	0.36	0.0082	0.0082	J	0.0018	0.0014	0.0014	0.0014	0.0014	0.0014	0.0014	0.0014	0.0014
Endrin aldehyde	0.015		0.014	0.0028	0.0028	J	0.0018	0.0014	0.0014	0.0014	0.0014	0.0014	0.0014	0.0014	0.0014
Heptachlor epoxide	0.015	0.0001-0.007	0.014	0.0060	0.0060	J	0.0066	0.0083	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066
Heptachlor	0.0025	0.006-0.379	0.014	0.0060	0.0060	J	0.0066	0.0083	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066
Methoxychlor	0.030	47.5-2835.4	0.014	0.0060	0.0060	J	0.0066	0.0083	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066
PCB-1254	0.020	0.093-5.53	0.014	0.0060	0.0060	J	0.0066	0.0083	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066
PCB-1260	0.060	0.093-5.53	0.014	0.0060	0.0060	J	0.0066	0.0083	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066
Tetrachloro-m-xylene (2)	20-150		0.014	0.0060	0.0060	J	0.0066	0.0083	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066







TABLE I-2  
 AIR FORCE PLANT 59  
 SOIL DATA SUMMARY FOR PCB/PESTICIDE (SW8080)

Parameters	PQL	Action Levels (l)	Environmental Samples (mg/kg)				Field Blanks (ug/L)				Method Blank (mg/kg)									
			Field ID 59BH09SO1 Lab ID 649855	IC	2C	PR	Field ID Lab ID	IC	2C	PR	IC	2C	PR							
Aldrin	0.010	0.051-3.03																		
alpha-BHC	0.0025	0.01-0.60																		
beta-BHC	0.010	0.01-0.60																		
delta-BHC	0.00075	0.017-1.0																		
gamma-BHC (Lindane)	0.0025	0.003-0.171																		
Decachlorobiphenyl (2)	20-150																			
4,4 -DDD	0.010	0.407-24.3																		
4,4 -DDE	0.015	0.233-13.9																		
4,4 -DDT	0.010	0.129-7.70																		
Dieldrin	0.010	0.006-0.338																		
Endosulfan I	0.0050	0.043-2.58																		
Endosulfan II	0.020	0.042-2.54																		
Endosulfan sulfate	0.020	0.053-3.17																		
Endrin	0.010	0.005-0.289																		
Endrin aldehyde	0.015																			
Heptachlor epoxide	0.015	0.0001-0.007																		
Heptachlor	0.0025	0.006-0.379																		
Methoxychlor	0.030	47.5-2835.4																		
PCB-1254	0.020	0.093-5.53																		
PCB-1260	0.060	0.093-5.53																		
Tetrachloro-m-xylene (2)	20-150																			

TABLE 1-2  
 AIR FORCE PLANT 59  
 SOIL DATA SUMMARY FOR PCB/PESTICIDE (SW8080)

Parameters	PQL	Action Levels (l)	Environmental Samples (mg/kg)						Field Blanks (ug/L)						Method Blank (mg/kg)		
			59BH12SO2			59BH12SO3			Equipment			Lab ID 652204			IC	2C	PR
			IC	2C	PR	IC	2C	PR	IC	2C	PR	IC	2C	PR			
Aldrin	0.010	0.051-3.03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
alpha-BHC	0.0025	0.01-0.60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
beta-BHC	0.010	0.01-0.60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
delta-BHC	0.00075	0.017-1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
gamma-BHC (Lindane)	0.0025	0.003-0.171	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Decachlorobiphenyl (2)	20-150		0.014	0.018	0.0059	0.0059	0.017	0.0035	0.0035	0.0035	0.0035	0.0035	0.0035	0.0035	0.0035	0.0035	0.014
4,4 -DDD	0.010	0.407-24.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4 -DDE	0.015	0.233-13.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4 -DDT	0.010	0.129-7.70	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	0.010	0.006-0.338	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan I	0.0050	0.043-2.58	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	0.020	0.042-2.54	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	0.020	0.053-3.17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	0.010	0.005-0.289	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	0.015		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	0.015	0.0001-0.007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	0.0025	0.006-0.379	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	0.030	47.5-2835.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1254	0.020	0.093-5.53	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1260	0.060	0.093-5.53	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloro-m-xylene (2)	20-150		0.016	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.015

TABLE I-2  
 AIR FORCE PLANT 59  
 SOIL DATA SUMMARY FOR PCB/PESTICIDE (SW8080)

Parameters	PQL	Action Levels (l)	Environmental Samples (mg/kg)						Field Blanks (ug/L)						Method Blank (mg/kg)					
			59BH12SO9			59SW10SO1			Equipment			Lab ID 652204			IC	2C	PR	IC	2C	PR
			IC	2C	PR	IC	2C	PR	IC	2C	PR	IC	2C	PR						
Aldrin	0.010	0.051-3.03				0.0051	0.014	0.0051	J	0.0051	J	0.0051	ND	ND	ND	ND	ND	ND	ND	
alpha-BHC	0.0025	0.01-0.60				0.0028	0.0083	0.0028	J	0.0028	J	0.0028	ND	ND	ND	ND	ND	ND	ND	
beta-BHC	0.010	0.01-0.60				0.0004	0.0012	0.0004	J	0.0004	J	0.0004	ND	ND	ND	ND	ND	ND	ND	
delta-BHC	0.00075	0.017-1.0																		
gamma-BHC (Lindane)	0.0025	0.003-0.171																		
Decachlorobiphenyl (2)	20-150					0.024	0.0025	0.0025	J	0.0025	J	0.0025	0.060	0.14	0.14	0.0059	U	0.0059	U	
4,4 -DDD	0.010	0.407-24.3				0.0007	0.0043	0.0007	J	0.0007	J	0.0007	ND	ND	ND	ND	ND	ND	ND	
4,4 -DDE	0.015	0.233-13.9				0.017	0.031	0.017	J	0.017	J	0.017	ND	ND	ND	ND	ND	ND	ND	
4,4 -DDT	0.010	0.129-7.70				0.0082	0.0016	0.0016	J	0.0016	J	0.0016	ND	ND	ND	ND	ND	ND	ND	
Dieldrin	0.010	0.006-0.338				0.0017	0.089	0.0017	J	0.0017	J	0.0017	ND	ND	ND	ND	ND	ND	ND	
Endosulfan I	0.0050	0.043-2.58				0.029	0.038	0.029	J	0.029	J	0.029	0.028	0.0035	0.0035	J	0.0035	J	0.0035	
Endosulfan II	0.020	0.042-2.54				0.0016	0.028	0.0016	J	0.0016	J	0.0016	ND	ND	ND	ND	ND	ND	ND	
Endosulfan sulfate	0.020	0.053-3.17				0.034	0.015	0.015	J	0.015	J	0.015	ND	ND	ND	ND	ND	ND	ND	
Endrin	0.010	0.005-0.289				0.021	0.017	0.017	J	0.017	J	0.017	0.011	0.0041	0.0041	U	0.0041	U	0.0041	
Endrin aldehyde	0.015	0.0001-0.007				0.0018	0.0030	0.0018	J	0.0018	J	0.0018	ND	ND	ND	ND	ND	ND	ND	
Heptachlor epoxide	0.0025	0.006-0.379				0.42	0.029	0.029	J	0.029	J	0.029	ND	ND	ND	ND	ND	ND	ND	
Heptachlor	0.030	47.5-2835.4																		
Methoxychlor	0.020	0.093-5.53																		
PCB-1254	0.020	0.093-5.53																		
PCB-1260	0.060	0.093-5.53																		
Tetrachloro-m-xylene (2)	20-150																			

TABLE 1-2  
 AIR FORCE PLANT 59  
 SOIL DATA SUMMARY FOR PCB/PESTICIDE (SW8080)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/L)			Method Blank (mg/kg)					
			Field ID 59SW10SO2 Lab ID 650518	IC	2C	PR	Field ID 59SW10SO3 Lab ID 650553	IC	2C	PR	Equipment Field ID EB1102394 Lab ID 650560	IC	2C	PR
Aldrin	0.010	0.051-3.03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
alpha-BHC	0.0025	0.01-0.60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
beta-BHC	0.010	0.01-0.60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
delta-BHC	0.00075	0.017-1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
gamma-BHC (Lindane)	0.0025	0.003-0.171	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Decachlorobiphenyl (2)	20-150		0.018	0.012	0.014	0.0059	0.017	0.0059	0.017	0.0059	0.017	0.0059	0.014	0.014
4,4 -DDD	0.010	0.407-24.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4 -DDE	0.015	0.233-13.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4 -DDT	0.010	0.129-7.70	ND	ND	ND	0.0055	0.0077	0.0055	0.0077	0.0055	0.0077	0.0055	0.0055	0.0055
Dieldrin	0.010	0.006-0.338	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan I	0.0050	0.043-2.58	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	0.020	0.042-2.54	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	0.020	0.053-3.17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	0.010	0.005-0.289	ND	ND	ND	0.0021	0.022	0.0021	0.022	0.0021	0.022	0.0021	0.0041	0.0041
Endrin aldehyde	0.015		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	0.015	0.0001-0.007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	0.0025	0.006-0.379	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	0.030	47.5-2835.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1254	0.020	0.093-5.53	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1260	0.060	0.093-5.53	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloro-m-xylene (2)	20-150		0.020	0.019	0.021	0.019	0.019	0.020	0.019	0.019	0.019	0.021	0.021	0.015

TABLE 1-2  
AIR FORCE PLANT 59  
SOIL DATA SUMMARY FOR PCB/PESTICIDE (SW8080)

Parameters	PQL	Action Levels (l)	Environmental Samples (mg/kg)						Field Blanks (ug/L)				Method Blank (mg/kg)						
			Field ID 59SW11S01 Lab ID 655355			Field ID 59SW11S02 Lab ID 655372			Equipment Field ID EB1110994 Lab ID 655390		IC		2C		PR	IC	2C	PR	
			IC	2C	PR	IC	2C	PR	IC	2C	IC	2C							
Aldrin	0.010	0.051-3.03							0.0003	U									0.0005
alpha-BHC	0.0025	0.01-0.60							ND										ND
beta-BHC	0.010	0.01-0.60	0.0017	0.0029	0.0017	U			ND										0.0059
delta-BHC	0.00075	0.017-1.0							0.0004	J									ND
gamma-BHC (Lindane)	0.0025	0.003-0.171							ND										ND
Decachlorobiphenyl (2)	20-150								0.018										0.12
4,4 -DDD	0.010	0.407-24.3	0.0016	0.0026	0.0016	U			0.0005	U									0.0004
4,4 -DDE	0.015	0.233-13.9	0.0019	0.0012	0.0012	J			ND										ND
4,4 -DDT	0.010	0.129-7.70							0.0053	U									ND
Dieldrin	0.010	0.006-0.338	0.0010	0.0018	0.0010	U			0.0003	U									0.0024
Endosulfan I	0.0050	0.043-2.58	0.0003	0.0014	0.0003	J			0.0004	J									0.0014
Endosulfan II	0.020	0.042-2.54	0.0004	0.0043	0.0004	J			0.0004	J									0.0096
Endosulfan sulfate	0.020	0.053-3.17							ND										0.0092
Endrin	0.010	0.005-0.289							ND										ND
Endrin aldehyde	0.015		0.010	0.010	0.010	J			ND										ND
Heptachlor epoxide	0.015	0.0001-0.007	0.0018	0.0016	0.0016	U			0.0043	U									0.0078
Heptachlor	0.0025	0.006-0.379							ND										0.0015
Methoxychlor	0.030	47.5-2835.4							ND										0.0024
PCB-1254	0.020	0.093-5.53							ND										ND
PCB-1260	0.060	0.093-5.53							ND										ND
Tetrachloro-m-xylene (2)	20-150								0.018										0.27

TABLE 1-2  
 AIR FORCE PLANT 59  
 SOIL DATA SUMMARY FOR PCB/PESTICIDE (SW8080)

Parameters	PQL	Action Levels (l)	Environmental Samples (mg/kg)				Field Blanks (ug/L)				Method Blank (mg/kg)										
			Field ID		Field ID		Field ID		Field ID		Field ID		Field ID		Field ID						
			IC	2C	PR	IC	2C	PR	IC	2C	PR	IC	2C	PR	IC	2C	PR				
Aldrin	0.010	0.051-3.03	59SW11SO3 Lab ID 655378																		
alpha-BHC	0.0025	0.01-0.60																			
beta-BHC	0.010	0.01-0.60																			
dela-BHC	0.00075	0.017-1.0																			
gamma-BHC (Lindane)	0.0025	0.003-0.171																			
Decachlorobiphenyl (2)	20-150																				
4,4 -DDD	0.010	0.407-24.3																			
4,4 -DDE	0.015	0.233-13.9																			
4,4 -DDT	0.010	0.129-7.70																			
Dieldrin	0.010	0.006-0.338																			
Endosulfan I	0.0050	0.043-2.58																			
Endosulfan II	0.020	0.042-2.54																			
Endosulfan sulfate	0.020	0.053-3.17																			
Endrin	0.010	0.005-0.289																			
Endrin aldehyde	0.015	0.0001-0.007																			
Heptachlor epoxide	0.015	0.006-0.379																			
Heptachlor	0.0025	47.5-2835.4																			
Methoxychlor	0.030	0.093-5.53																			
PCB-1254	0.020	0.093-5.53																			
PCB-1260	0.060	0.093-5.53																			
Tetrachloro-m-xylene (2)	20-150																				

TABLE I-2  
 AIR FORCE PLANT 59  
 SOIL DATA SUMMARY FOR PCB/PESTICIDE (SW8080)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)						Field Blanks (ug/L)						Method Blank (mg/kg)		
			Field ID 59SW13SO1 Lab ID 657187			Field ID 59SW13SO2 Lab ID 657175			Equipment Field ID EB1111494 Lab ID 657200			Lab ID 657578			IC	2C	PR
			IC	2C	PR	IC	2C	PR	IC	2C	PR						
Aldrin	0.010	0.051-3.03	0.0007	U	0.010	0.0009	0.0009	0.0009	U	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0003
alpha-BHC	0.0025	0.01-0.60	ND		0.0001	0.0002	0.0001	0.0001	J	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	ND
beta-BHC	0.010	0.01-0.60	ND														ND
delta-BHC	0.00075	0.017-1.0	ND		0.0003	0.0001	0.0001	0.0001	J	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	ND
gamma-BHC (Lindane)	0.0025	0.003-0.171	ND														ND
Decachlorobiphenyl (2)	20-150		0.0093		0.0061	0.010	0.0068	0.0068	J	0.0061	0.010	0.0061	0.0068	0.0061	0.0068	0.0061	0.014
4,4 -DDD	0.010	0.407-24.3	0.0003	J													ND
4,4 -DDE	0.015	0.233-13.9	0.0003	J													ND
4,4 -DDT	0.010	0.129-7.70	0.0011	J	0.056	0.0024	0.0024	0.0024	J	0.056	0.0024	0.0024	0.0024	0.0024	0.0024	0.0024	ND
Dieldrin	0.010	0.006-0.338	0.0002	J	0.0027	0.0044	0.0027	0.0027	J	0.0027	0.0044	0.0027	0.0027	0.0027	0.0027	0.0027	ND
Endosulfan I	0.0050	0.043-2.58	0.0002	J	0.023	0.0002	0.0002	0.0002	J	0.023	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	ND
Endosulfan II	0.020	0.042-2.54	0.0003	J	0.011	0.0053	0.0053	0.0053	J	0.011	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053	ND
Endosulfan sulfate	0.020	0.053-3.17	ND		0.0016	0.0008	0.0008	0.0008	J	0.0016	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	ND
Endrin	0.010	0.005-0.289	ND		0.0063	0.0024	0.0024	0.0024	J	0.0063	0.0024	0.0024	0.0024	0.0024	0.0024	0.0024	ND
Endrin aldehyde	0.015		0.0002	J	0.0079	0.0032	0.0032	0.0032	J	0.0079	0.0032	0.0032	0.0032	0.0032	0.0032	0.0032	ND
Heptachlor epoxide	0.015	0.0001-0.007	0.0028	J	0.0039	0.0013	0.0013	0.0013	J	0.0039	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	ND
Heptachlor	0.0025	0.006-0.379	0.0002	U	0.0015	0.0012	0.0012	0.0012	J	0.0015	0.0012	0.0012	0.0012	0.0012	0.0012	0.0012	0.0001
Methoxychlor	0.030	47.5-2835.4	0.0016	J	0.024	0.18	0.024	0.024	J	0.024	0.18	0.024	0.024	0.024	0.024	0.024	ND
PCB-1254	0.020	0.093-5.53	ND														ND
PCB-1260	0.060	0.093-5.53	ND														ND
Tetrachloro-m-xylene (2)	20-150		0.011														0.015

TABLE 1-2  
 AIR FORCE PLANT 59  
 SOIL DATA SUMMARY FOR PCB/PESTICIDE (SW8080)

Parameters	PQL	Action Levels (l)	Environmental Samples (mg/kg)			Field Blanks (ug/L)			Method Blank (mg/kg)				
			Field ID 59SW13SO3 Lab ID 657181	IC	2C	PR	Field ID 59SW13SO4 Lab ID 657193	IC	2C	PR	Equipment Field ID EB1111494 Lab ID 657200	IC	2C
Aldrin	0.010	0.051-3.03	0.0004	U			0.0003	U					0.0003
alpha-BHC	0.0025	0.01-0.60	ND	J			ND	ND					ND
beta-BHC	0.010	0.01-0.60	0.0006	J			ND	ND					ND
delta-BHC	0.00075	0.017-1.0	ND	J			ND	ND					ND
gamma-BHC (Lindane)	0.0025	0.003-0.171	ND	J			ND	ND					ND
Decachlorobiphenyl (2)	20-150		0.012	J			0.012	J					0.096
4,4 -DDD	0.010	0.407-24.3	0.0003	J			ND	J					ND
4,4 -DDE	0.015	0.233-13.9	0.0003	J			0.0003	J					ND
4,4 -DDT	0.010	0.129-7.70	0.0049	J			0.0007	J					ND
Dieldrin	0.010	0.006-0.338	0.0003	J			0.0003	J					ND
Endosulfan I	0.0050	0.043-2.58	0.0001	J			ND	J					ND
Endosulfan II	0.020	0.042-2.54	0.0001	J			0.0006	J					ND
Endosulfan sulfate	0.020	0.053-3.17	0.0004	J			ND	J					ND
Endrin	0.010	0.005-0.289	ND	J			ND	J					ND
Endrin aldehyde	0.015		ND	J			ND	J					ND
Heptachlor epoxide	0.015	0.0001-0.007	0.0002	J			0.0005	J					ND
Heptachlor	0.0025	0.006-0.379	0.0002	U			0.0006	J					ND
Methoxychlor	0.030	47.5-2835.4	0.0005	J			ND	J					0.0001
PCB-1254	0.020	0.093-5.53	ND	J			ND	J					ND
PCB-1260	0.060	0.093-5.53	ND	J			ND	J					ND
Tetrachloro-m-xylene (2)	20-150		0.014	J			0.013	J					0.20



TABLE 1-2  
 AIR FORCE PLANT 59  
 SOIL DATA SUMMARY FOR PCB/PESTICIDE (SW8080)

Parameters	PQL	Action Levels (l)	Environmental Samples (mg/kg)						Field Blanks (ug/L)			Method Blank (mg/kg)		
			Field ID 59SW12SO1 Lab ID 658122	IC	2C	PR	Field ID 59SW12SO2 Lab ID 658111	IC	2C	PR	Equipment Field ID EB1111694 Lab ID 658099	IC	2C	PR
Aldrin	0.010	0.051-3.03	0.0003	0.0009	0.0003	U	0.0006	U	0.010	U				0.0002
alpha-BHC	0.0025	0.01-0.60			ND		ND		ND					ND
beta-BHC	0.010	0.01-0.60			ND		0.0007	J	ND					ND
delta-BHC	0.00075	0.017-1.0			ND		ND		ND					ND
gamma-BHC (Lindane)	0.0025	0.003-0.171			ND		ND		ND					0.0004
Decachlorobiphenyl (2)	20-150				0.018		0.017		0.14					0.020
4,4 -DDD	0.010	0.407-24.3	0.0005	0.0005	0.0005	U	0.0038	U	0.0047	U				0.0039
4,4 -DDE	0.015	0.233-13.9	0.0001	0.0003	0.0001	J	ND		ND					ND
4,4 -DDT	0.010	0.129-7.70	0.0013	0.0022	0.0013	U	0.0008	U	0.0020	U				0.0026
Dieldrin	0.010	0.006-0.338	0.0008	0.0009	0.0008	J	0.0004	J	0.0097	U				ND
Endosulfan I	0.0050	0.043-2.58	0.0002	0.0001	0.0001	J	0.0001	J	ND					ND
Endosulfan II	0.020	0.042-2.54	0.0008	0.0003	0.0003	J	0.0009	J	ND					ND
Endosulfan sulfate	0.020	0.053-3.17	0.0005	0.0014	0.0005	U	ND		ND					0.0002
Endrin	0.010	0.005-0.289			ND		ND		ND					0.0002
Endrin aldehyde	0.015		0.0042	0.0008	0.0008	J	0.0005	J	ND					0.0002
Heptachlor epoxide	0.015	0.0001-0.007	0.0003	0.0003	0.0003	J	0.0035	J	0.013	U				ND
Heptachlor	0.0025	0.006-0.379	0.0001	0.0001	0.0001	U	0.0002	U	0.0016	U				0.0003
Methoxychlor	0.030	47.5-2835.4	0.0012	0.0010	0.0010	U	ND		ND					0.0007
PCB-1254	0.020	0.093-5.53			ND		ND		0.14	J				ND
PCB-1260	0.060	0.093-5.53	0.063	0.0038	0.0038	J	ND		ND					ND
Tetrachloro-m-xylene (2)	20-150				0.013		0.016		0.23					0.018

TABLE 1-2  
 AIR FORCE PLANT 59  
 SOIL DATA SUMMARY FOR PCB/PESTICIDE (SW8080)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)						Field Blanks (ug/L)			Method Blank (mg/kg)		
			59SW12SO3			59SW12SO4			Equipment			Lab ID		
			IC	2C	PR	IC	2C	PR	IC	2C	PR	IC	2C	PR
Aldrin	0.010	0.051-3.03	0.0012	J	0.0005	U	0.010	U	0.0002					
alpha-BHC	0.0025	0.01-0.60	ND		ND		ND		ND					
beta-BHC	0.010	0.01-0.60	0.0018	J	0.0009	J	ND		ND					
delta-BHC	0.00075	0.017-1.0	ND		ND		ND		ND					
gamma-BHC (Lindane)	0.0025	0.003-0.171	ND		ND		ND		ND			0.0004		
Decachlorobiphenyl (2)	20-150		0.014		0.016		0.14		0.020			0.020		
4,4 -DDD	0.010	0.407-24.3	0.0029	U	0.0022	U	0.0047	U	0.0039			0.0039		
4,4 -DDE	0.015	0.233-13.9	ND		ND		ND		ND			ND		
4,4 -DDT	0.010	0.129-7.70	0.0005	U	ND		0.0020	U	ND			0.0026		
Dieldrin	0.010	0.006-0.338	0.0005	J	0.0007	J	0.0097	U	ND			ND		
Endosulfan I	0.0050	0.043-2.58	0.0004	J	0.0007	J	ND		ND			ND		
Endosulfan II	0.020	0.042-2.54	0.0006	J	0.0003	J	ND		ND			ND		
Endosulfan sulfate	0.020	0.053-3.17	0.0003	U	0.0010	J	ND		ND			0.0002		
Endrin	0.010	0.005-0.289	ND		ND		ND		ND			ND		
Endrin aldehyde	0.015		ND		ND		ND		ND			ND		
Heptachlor epoxide	0.015	0.0001-0.007	ND		ND		0.013	U	ND			ND		
Heptachlor	0.0025	0.006-0.379	0.0004	U	0.0003	U	0.0016	U	0.0003			0.0003		
Methoxychlor	0.030	47.5-2835.4	0.0017	U	ND		ND		ND			0.0007		
PCB-1254	0.020	0.093-5.53	ND		ND		0.14	J	ND			ND		
PCB-1260	0.060	0.093-5.53	ND		ND		ND		ND			ND		
Tetrachloro-m-xylene (2)	20-150		0.015		0.016		0.23		0.018			0.018		

TABLE 1-2  
AIR FORCE PLANT 59  
SOIL DATA SUMMARY FOR PCB/PESTICIDE (SW8080)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)						Field Blanks (ug/L)						Method Blank (mg/kg)		
			Field ID		Field ID		Field ID		Equipment		Equipment		Equipment		IC	2C	PR
			IC	2C	PR	IC	2C	PR	IC	2C	PR	IC	2C	PR			
Aldrin	0.010	0.051-3.03	59SW12SO9	658141	IC	2C	PR	IC	2C	PR	IC	2C	PR	IC	2C	PR	0.0002
alpha-BHC	0.0025	0.01-0.60															ND
beta-BHC	0.010	0.01-0.60															ND
delta-BHC	0.00075	0.017-1.0															ND
gamma-BHC (Lindane)	0.0025	0.003-0.171															ND
Decachlorobiphenyl (2)	20-150																0.14
4,4 -DDD	0.010	0.407-24.3															0.0047
4,4 -DDE	0.015	0.233-13.9															ND
4,4 -DDT	0.010	0.129-7.70															0.0020
Dieldrin	0.010	0.006-0.338															0.0097
Endosulfan I	0.0050	0.043-2.58															ND
Endosulfan II	0.020	0.042-2.54															0.0026
Endosulfan sulfate	0.020	0.053-3.17															ND
Endrin	0.010	0.005-0.289															0.0002
Endrin-aldehyde	0.015																ND
Heptachlor epoxide	0.015	0.0001-0.007															0.013
Heptachlor	0.0025	0.006-0.379															0.0016
Methoxychlor	0.030	47.5-2835.4															ND
PCB-1254	0.020	0.093-5.53															0.14
PCB-1260	0.060	0.093-5.53															ND
Tetrachloro-m-xylene (2)	20-150																0.23

(1) Action Levels are based on NYSDEC guidance for the Determination of Soil Cleanup Objectives and Cleanup Levels, January, 1994. Levels are based on the partition theory model for protection of water quality. The concentrations are based on maximum and minimum calculated action levels.

(2) Surrogate - Control limits are listed in the PQL column. Qualifiers: U = Blank Contamination

J = Estimated; UJ = Estimated for Non-detect

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TABLE 1-3  
AIR FORCE PLANT 59  
SOIL ANALYTICAL DATA SUMMARY  
FOR VOLATILE ORGANIC COMPOUNDS (SW8260)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)		Field Blanks (ug/l)			Method Blank (mg/kg)
			Field ID 59BH01SO1 Lab ID 648861	Field ID Lab ID	Trip Field ID TB1101894 Lab ID 648846	Equipment Field ID EB1101894 Lab ID 648823	Ambient Field ID AB1111494 Lab ID 657203	
Bromofluorobenzene (2)	74-121		0.045		4.7	4.6	4.6	0.051
Bromomethane	0.010		ND		ND	ND	ND	ND
n-Butyl Benzene	0.015		ND		ND	ND	ND	ND
sec-Butyl Benzene	0.015		ND		ND	ND	ND	ND
Toluene	0.015	0.079-4.74	ND		ND	ND	ND	ND
Toluene-D8 (2)	81-117		0.048		5.1	5.0	5.1	0.053
Chloroethane	0.020	0.098-5.85	ND		ND	ND	ND	ND
p-Cymene	0.015		ND		ND	ND	ND	ND
1,2-Dibromo-3-Chloropropane	0.030		ND		ND	ND	ND	ND
1,2-Dibromomethane (2)	80-120		0.057		5.4	5.6	5.5	0.057
1,1-Dichloroethane	0.015	0.008-0.474	ND		ND	ND	ND	ND
cis-1,2-Dichloroethylene	0.015		ND		ND	ND	ND	ND
Ethylbenzene	0.015	0.291-10.0	ND		ND	ND	ND	ND
Dichlorodifluoromethane	0.010		0.0012	U	ND	ND	ND	0.0012
Hexachlorobutadiene	0.025		ND		ND	ND	ND	ND
Isopropyl Benzene	0.015		ND		ND	ND	ND	ND
Methylene chloride	0.035	0.006-0.332	0.0078	U	1.2	1.5	1.0	U
Naphthalene	0.360	0.688-10.0	ND		ND	ND	ND	ND
n-Propyl Benzene	0.015		ND		ND	ND	ND	ND
Tetrachloroethylene	0.015	0.073-4.38	ND		ND	ND	ND	ND
1,1,1-Trichloroethane	0.015	0.040-2.40	ND		ND	ND	ND	ND
1,2,3-Trichlorobenzene	0.020		ND		ND	ND	ND	ND
1,2,4-Trichlorobenzene	0.025	0.180-10.0	ND		ND	ND	ND	ND
Trichloroethylene	0.015	0.033-1.99	ND		ND	ND	ND	ND
1,2,4-Trimethyl Benzene	0.015		ND		ND	ND	ND	ND
1,3,5-Trimethyl Benzene	0.015		ND		ND	ND	ND	ND
Vinyl chloride	0.010	0.006-0.360	ND		ND	ND	ND	ND
M-Xylene	0.015	0.063-3.79	ND		ND	ND	ND	ND
O-Xylene	0.015	0.063-3.79	ND		ND	ND	ND	ND

TABLE 1-3  
 AIR FORCE PLANT 59  
 SOIL ANALYTICAL DATA SUMMARY  
 FOR VOLATILE ORGANIC COMPOUNDS (SW8260)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)				Field Blanks (ug/l)			Ambient Field ID Lab ID 657203	Method Blank (mg/kg)
			Field ID 59BH02SO2 Lab ID 648891	Field ID 59BH02SO1 Lab ID 648885	Field ID 59BH01SO2 Lab ID 648879	Trip Field ID TB1101894 Lab ID 648846	Equipment Field ID EB1101894 Lab ID 648823	Field ID 4.7	Field ID 4.6		
Bromofluorobenzene	74-121		0.044	0.046	0.046	4.7	4.6	4.6	4.6	Lab ID 648947	
Bromomethane	0.010		ND	ND	0.016	ND	ND	ND	ND	0.051	
n-Butyl Benzene	0.015		ND	ND	ND	ND	ND	ND	ND	ND	
sec-Butyl Benzene	0.015		ND	ND	ND	ND	ND	ND	ND	ND	
Toluene	0.015	0.079-4.74	ND	ND	ND	ND	ND	ND	ND	ND	
Toluene-D8	81-117		0.047	0.049	0.050	5.1	5.0	5.1	5.1	0.053	
Chloroethane	0.020	0.098-5.85	ND	ND	ND	ND	ND	ND	ND	ND	
p-Cymene	0.015		ND	ND	ND	ND	ND	ND	ND	ND	
1,2-Dibromo-3-Chloropropane	0.030		ND	ND	ND	ND	ND	ND	ND	ND	
1,2-Dibromo-3-Chloropropane	80-120		0.056	0.058	0.059	5.4	5.6	5.5	5.5	0.057	
Dibromofluoromethane	0.015	0.008-0.474	ND	ND	ND	ND	ND	ND	ND	ND	
1,1-Dichloroethane	0.015		ND	ND	ND	ND	ND	ND	ND	ND	
cis-1,2-Dichloroethylene	0.015		ND	ND	ND	ND	ND	ND	ND	ND	
Ethylbenzene	0.015	0.291-10.0	ND	ND	ND	ND	ND	ND	ND	ND	
Dichlorodifluoromethane	0.010		ND	0.0013	0.0012	ND	ND	ND	ND	0.0012	
Hexachlorobutadiene	0.025		ND	ND	ND	ND	ND	ND	ND	ND	
Isopropyl Benzene	0.015		ND	ND	ND	ND	ND	ND	ND	ND	
Methylene chloride	0.035	0.006-0.332	0.0092	0.079	0.0069	1.2	1.5	1.0	1.0	0.0056	
Naphthalene	0.360	0.688-10.0	ND	ND	ND	ND	ND	ND	ND	ND	
n-Propyl Benzene	0.015		ND	ND	ND	ND	ND	ND	ND	ND	
Tetrachloroethylene	0.015	0.073-4.38	ND	ND	ND	ND	ND	ND	ND	ND	
1,1,1-Trichloroethane	0.015	0.040-2.40	0.0087	ND	ND	ND	ND	ND	ND	ND	
1,2,3-Trichlorobenzene	0.020		ND	ND	ND	ND	ND	ND	ND	ND	
1,2,4-Trichlorobenzene	0.025	0.180-10.0	ND	ND	ND	ND	ND	ND	ND	ND	
Trichloroethylene	0.015	0.033-1.99	ND	ND	ND	ND	ND	ND	ND	ND	
1,2,4-Trimethyl Benzene	0.015		ND	ND	ND	ND	ND	ND	ND	ND	
1,3,5-Trimethyl Benzene	0.015		ND	ND	ND	ND	ND	ND	ND	ND	
Vinyl chloride	0.010	0.006-0.360	ND	ND	ND	ND	ND	ND	ND	ND	
M-Xylene	0.015	0.063-3.79	ND	ND	ND	ND	ND	ND	ND	ND	
O-Xylene	0.015	0.063-3.79	ND	ND	ND	ND	ND	ND	ND	ND	

TABLE 1-3  
 AIR FORCE PLANT 59  
 SOIL ANALYTICAL DATA SUMMARY  
 FOR VOLATILE ORGANIC COMPOUNDS (SW8260)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)				Field Blanks (ug/l)			Ambient Field ID	Method Blank (mg/kg)
			Field ID 59BH03SO2 Lab ID 648912	Field ID 59BH03SO1 Lab ID 648906	Field ID 59BH02SO3 Lab ID 648900	Trip Field ID TB1101894 Lab ID 648846	Equipment Field ID EB1101894 Lab ID 648823	Field ID 4.7	Field ID 4.6		
Bromofluorobenzene	(2) 74-121		0.043	0.048	0.048	4.7	4.6	4.6	4.6	Lab ID 648949	
Bromomethane	0.010		ND	ND	ND	ND	ND	ND	ND	0.044	
n-Butyl Benzene	0.015		ND	ND	ND	ND	ND	ND	ND	ND	
sec-Butyl Benzene	0.015		ND	ND	ND	ND	ND	ND	ND	ND	
Toluene	0.015	0.079-4.74	ND	ND	ND	ND	ND	ND	ND	ND	
Toluene-D8	81-117		0.050	0.055	0.055	5.1	5.0	5.1	5.1	0.049	
Chloroethane	0.020	0.098-5.85	ND	ND	ND	ND	ND	ND	ND	ND	
p-Cymene	0.015		ND	ND	ND	ND	ND	ND	ND	ND	
1,2-Dibromo-3-Chloropropane	0.030		ND	ND	ND	ND	ND	ND	ND	ND	
Dibromofluoromethane	(2) 80-120		0.057	0.061	0.062	5.4	5.6	5.5	5.5	0.054	
1,1-Dichloroethane	0.015	0.008-0.474	ND	ND	ND	ND	ND	ND	ND	ND	
cis-1,2-Dichloroethylene	0.015		ND	ND	ND	ND	ND	ND	ND	ND	
Ethylbenzene	0.015	0.291-10.0	ND	ND	ND	ND	ND	ND	ND	ND	
Dichlorodifluoromethane	0.010		ND	ND	ND	ND	ND	ND	ND	0.0010	
Hexachlorobutadiene	0.025		ND	ND	ND	ND	ND	ND	ND	ND	
Isopropyl Benzene	0.015		ND	ND	ND	ND	ND	ND	ND	ND	
Methylene chloride	0.035	0.006-0.332	0.0087	0.0092	0.010	1.2	1.5	1.0	1.0	0.0051	
Naphthalene	0.360	0.688-10.0	ND	ND	ND	ND	ND	ND	ND	ND	
n-Propyl Benzene	0.015		ND	ND	ND	ND	ND	ND	ND	ND	
Tetrachloroethylene	0.015	0.073-4.38	ND	0.0012	ND	ND	ND	ND	ND	ND	
1,1,1-Trichloroethane	0.015	0.040-2.40	ND	ND	ND	ND	ND	ND	ND	ND	
1,2,3-Trichlorobenzene	0.020		ND	ND	ND	ND	ND	ND	ND	ND	
1,2,4-Trichlorobenzene	0.025	0.180-10.0	ND	ND	ND	ND	ND	ND	ND	ND	
Trichloroethylene	0.015	0.033-1.99	ND	0.0020	ND	ND	ND	ND	ND	ND	
1,2,4-Trimethyl Benzene	0.015		ND	ND	ND	ND	ND	ND	ND	ND	
1,3,5-Trimethyl Benzene	0.015		ND	ND	ND	ND	ND	ND	ND	ND	
Vinyl chloride	0.010	0.006-0.360	ND	ND	ND	ND	ND	ND	ND	ND	
M-Xylene	0.015	0.063-3.79	ND	ND	ND	ND	ND	ND	ND	ND	
O-Xylene	0.015	0.063-3.79	ND	ND	ND	ND	ND	ND	ND	ND	

TABLE 1-3  
 AIR FORCE PLANT 59  
 SOIL ANALYTICAL DATA SUMMARY  
 FOR VOLATILE ORGANIC COMPOUNDS (SW8260)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)		Field Blanks (ug/l)			Method Blank (mg/kg)
			Field ID 59BH03SO3 Lab ID 649271	Field ID Lab ID	Trip Field ID TB1101994 Lab ID 649367	Equipment Field ID EB1101994 Lab ID 649358	Ambient Field ID AB1111494 Lab ID 657203	
Bromofluorobenzene	74-121		0.044		4.4	4.1	4.6	Lab ID 650291
Bromomethane	0.010		ND		ND	ND	ND	0.043
n-Butyl Benzene	0.015		ND		ND	ND	ND	ND
sec-Butyl Benzene	0.015		ND		ND	ND	ND	ND
Toluene	0.015	0.079-4.74	ND		ND	ND	ND	ND
Toluene-D8	81-117		0.052		5.0	4.9	5.1	0.048
Chloroethane	0.020	0.098-5.85	ND		ND	ND	ND	ND
p-Cymene	0.015		ND		ND	ND	ND	ND
1,2-Dibromo-3-Chloropropane	0.030		ND		ND	ND	ND	0.0013
Dibromofluoromethane	80-120		0.060		4.9	5.2	5.5	0.049
1,1-Dichloroethane	0.015	0.008-0.474	ND		ND	ND	ND	ND
cis-1,2-Dichloroethylene	0.015		ND		ND	ND	ND	ND
Ethylbenzene	0.015	0.291-10.0	ND		ND	ND	ND	ND
Dichlorodifluoromethane	0.010		ND		ND	ND	ND	ND
Hexachlorobutadiene	0.025		ND		ND	ND	ND	ND
Isopropyl Benzene	0.015		ND		ND	ND	ND	ND
Methylene chloride	0.035	0.006-0.332	0.012		0.40	1.5	1.0	0.016
Naphthalene	0.360	0.688-10.0	ND		ND	ND	ND	0.0030
n-Propyl Benzene	0.015		ND		ND	ND	ND	ND
Tetrachloroethylene	0.015	0.073-4.38	ND		ND	ND	ND	ND
1,1,1-Trichloroethane	0.015	0.040-2.40	ND		ND	ND	ND	ND
1,2,3-Trichlorobenzene	0.020		ND		ND	ND	ND	ND
1,2,4-Trichlorobenzene	0.025	0.180-10.0	ND		ND	ND	ND	0.0015
Trichloroethylene	0.015	0.033-1.99	ND		ND	ND	ND	0.0012
1,2,4-Trimethyl Benzene	0.015		ND		ND	ND	ND	ND
1,3,5-Trimethyl Benzene	0.015		ND		ND	ND	ND	ND
Vinyl chloride	0.010	0.006-0.360	ND		ND	ND	ND	ND
M-Xylene	0.015	0.063-3.79	ND		ND	ND	ND	ND
O-Xylene	0.015	0.063-3.79	ND		ND	ND	ND	ND



TABLE 1-3  
 AIR FORCE PLANT 59  
 SOIL ANALYTICAL DATA SUMMARY  
 FOR VOLATILE ORGANIC COMPOUNDS (SW8260)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)				Field Blanks (ug/l)				Method Blank (mg/kg)		
			Field ID		Field ID		Trip		Equipment			Ambient	
			59BH06SO2 Lab ID 649238	59BH04SO1 Lab ID 649232	Field ID Lab ID	Field ID Lab ID	Field ID Lab ID	Field ID Lab ID	Field ID Lab ID	Field ID Lab ID		Field ID Lab ID	Field ID Lab ID
Bromofluorobenzene	74-121		0.045	0.048				4.4	4.1	4.6	Lab ID 649614		
Bromomethane	0.010		ND	ND			ND	ND	ND	ND	0.038		
n-Butyl Benzene	0.015		ND	ND			ND	ND	ND	ND	ND		
sec-Butyl Benzene	0.015		ND	ND			ND	ND	ND	ND	ND		
Toluene	0.015	0.079-4.74	ND	ND			ND	ND	ND	ND	ND		
Toluene-D8	81-117		0.051	0.055			5.0	4.9	5.1	5.1	0.042		
Chloroethane	0.020	0.098-5.85	ND	ND			ND	ND	ND	ND	ND		
p-Cymene	0.015		ND	ND			ND	ND	ND	ND	ND		
1,2-Dibromo-3-Chloropropane	0.030		ND	ND			ND	ND	ND	ND	ND		
Dibromofluoromethane	80-120		0.059	0.061			4.9	5.2	5.5	5.5	0.046		
1,1-Dichloroethane	0.015	0.008-0.474	ND	ND			ND	ND	ND	ND	ND		
cis-1,2-Dichloroethylene	0.015		ND	ND			ND	ND	ND	ND	ND		
Ethylbenzene	0.015	0.291-10.0	ND	ND			ND	ND	ND	ND	ND		
Dichlorodifluoromethane	0.010		ND	ND			ND	ND	ND	ND	ND		
Hexachlorobutadiene	0.025		ND	ND			ND	ND	ND	ND	ND		
Isopropyl Benzene	0.015		ND	ND			ND	ND	ND	ND	ND		
Methylene chloride	0.035	0.006-0.332	0.0079	0.012			0.40	1.5	U	1.0	0.0051		
Naphthalene	0.360	0.688-10.0	ND	ND			ND	ND	ND	ND	ND		
n-Propyl Benzene	0.015		ND	ND			ND	ND	ND	ND	ND		
Tetrachloroethylene	0.015	0.073-4.38	ND	ND			ND	ND	ND	ND	ND		
1,1,1-Trichloroethane	0.015	0.040-2.40	ND	ND			ND	ND	ND	ND	ND		
1,2,3-Trichlorobenzene	0.020		ND	ND			ND	ND	ND	ND	ND		
1,2,4-Trichlorobenzene	0.025	0.180-10.0	ND	ND			ND	ND	ND	ND	ND		
Trichloroethylene	0.015	0.033-1.99	ND	0.0029		J	ND	ND	ND	ND	ND		
1,2,4-Trimethyl Benzene	0.015		ND	ND			ND	ND	ND	ND	ND		
1,3,5-Trimethyl Benzene	0.015		ND	ND			ND	ND	ND	ND	ND		
Vinyl chloride	0.010	0.006-0.360	ND	ND			ND	ND	ND	ND	ND		
M-Xylene	0.015	0.063-3.79	ND	ND			ND	ND	ND	ND	ND		
O-Xylene	0.015	0.063-3.79	ND	ND			ND	ND	ND	ND	ND		

TABLE 1-3  
 AIR FORCE PLANT 59  
 SOIL ANALYTICAL DATA SUMMARY  
 FOR VOLATILE ORGANIC COMPOUNDS (SW8260)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)				Field Blanks (ug/l)			Ambient Field ID Lab ID	Method Blank (mg/kg)
			Field ID	Field ID	Field ID	Trip	Field ID	Field ID	Equipment		
			59BH04SO9 Lab ID	59BH04SO2 Lab ID	Lab ID	Lab ID	Field ID	Field ID	Field ID		
Bromofluorobenzene	(2) 74-121		0.054	0.051		4.4	4.1	4.6	AB1111494	Lab ID 649618	
Bromomethane	0.010		ND	ND		ND	ND	ND	ND	ND	
n-Butyl Benzene	0.015		ND	ND		ND	ND	ND	ND	ND	
sec-Butyl Benzene	0.015		ND	ND		ND	ND	ND	ND	ND	
Toluene	0.015	0.079-4.74	ND	ND		ND	ND	ND	ND	ND	
Toluene-D8	81-117		0.062	0.059		5.0	4.9	5.1	5.1	0.049	
Chloroethane	0.020	0.098-5.85	ND	ND		ND	ND	ND	ND	ND	
p-Cymene	0.015		ND	ND		ND	ND	ND	ND	ND	
1,2-Dibromo-3-Chloropropane	0.030		ND	ND		ND	ND	ND	ND	ND	
Dibromofluoromethane	80-120		0.071	0.067		4.9	5.2	5.5	5.5	0.051	
1,1-Dichloroethane	0.015	0.008-0.474	ND	ND		ND	ND	ND	ND	ND	
cis-1,2-Dichloroethylene	0.015		ND	ND		ND	ND	ND	ND	ND	
Ethylbenzene	0.015	0.291-10.0	ND	ND		ND	ND	ND	ND	ND	
Dichlorodifluoromethane	0.010		ND	ND		ND	ND	ND	ND	ND	
Hexachlorobutadiene	0.025		ND	ND		ND	ND	ND	ND	ND	
Isopropyl Benzene	0.015		ND	ND		ND	ND	ND	ND	ND	
Methylene chloride	0.035	0.006-0.332	0.012	0.022	U	0.40	1.5	1.0	U	0.0041	
Naphthalene	0.360	0.688-10.0	ND	ND		ND	ND	ND	ND	ND	
n-Propyl Benzene	0.015		ND	ND		ND	ND	ND	ND	ND	
Tetrachloroethylene	0.015	0.073-4.38	ND	ND		ND	ND	ND	ND	ND	
1,1,1-Trichloroethane	0.015	0.040-2.40	ND	ND		ND	ND	ND	ND	ND	
1,2,3-Trichlorobenzene	0.020		ND	ND		ND	ND	ND	ND	ND	
1,2,4-Trichlorobenzene	0.025	0.180-10.0	ND	ND		ND	ND	ND	ND	ND	
Trichloroethylene	0.015	0.033-1.99	0.0029	ND	J	ND	ND	ND	ND	ND	
1,2,4-Trimethyl Benzene	0.015		ND	ND		ND	ND	ND	ND	ND	
1,3,5-Trimethyl Benzene	0.015		ND	ND		ND	ND	ND	ND	ND	
Vinyl chloride	0.010	0.006-0.360	ND	ND		ND	ND	ND	ND	ND	
M-Xylene	0.015	0.063-3.79	ND	ND		ND	ND	ND	ND	ND	
O-Xylene	0.015	0.063-3.79	ND	ND		ND	ND	ND	ND	ND	

TABLE 1-3  
 AIR FORCE PLANT 59  
 SOIL ANALYTICAL DATA SUMMARY  
 FOR VOLATILE ORGANIC COMPOUNDS (SW8260)

Parameters	PQL	Action Levels (l)	Environmental Samples (mg/kg)		Field Blanks (ug/l)			Method Blank (mg/kg)
			Field ID Lab ID	Field ID Lab ID	Trip Field ID Lab ID	Equipment Field ID Lab ID	Ambient Field ID Lab ID	
Bromofluorobenzene	(2) 74-121		59BH04SO3 Lab ID 649316	TB1101994 Lab ID 649367	EB1101994 Lab ID 649358	AB1111494 Lab ID 657203	Lab ID 650287	
Bromomethane	0.010		0.047	4.4	4.1	4.6	0.042	
n-Butyl Benzene	0.015		ND	ND	ND	ND	ND	
sec-Butyl Benzene	0.015		ND	ND	ND	ND	ND	
Toluene	0.015	0.079-4.74	ND	ND	ND	ND	ND	
Toluene-D8	81-117		0.056	5.0	4.9	5.1	0.048	
Chloroethane	0.020	0.098-5.85	ND	ND	ND	ND	ND	
p-Cymene	0.015		ND	ND	ND	ND	ND	
1,2-Dibromo-3-Chloropropane	0.030		ND	ND	ND	ND	ND	
Dibromofluoromethane	80-120		0.066	4.9	5.2	5.5	0.0012	
1,1-Dichloroethane	0.015	0.008-0.474	ND	ND	ND	ND	0.049	
cis-1,2-Dichloroethylene	0.015		ND	ND	ND	ND	ND	
Ethylbenzene	0.015	0.291-10.0	ND	ND	ND	ND	ND	
Dichlorodifluoromethane	0.010		0.0014	ND	ND	ND	ND	
Hexachlorobutadiene	0.025		ND	ND	ND	ND	ND	
Isopropyl Benzene	0.015		ND	ND	ND	ND	0.0010	
Methylene chloride	0.035	0.006-0.332	0.038	0.40	1.5	1.0	ND	
Naphthalene	0.360	0.688-10.0	ND	ND	ND	ND	0.0084	
n-Propyl Benzene	0.015		ND	ND	ND	ND	0.0029	
Tetrachloroethylene	0.015	0.073-4.38	ND	ND	ND	ND	ND	
1,1,1-Trichloroethane	0.015	0.040-2.40	ND	ND	ND	ND	ND	
1,2,3-Trichlorobenzene	0.020		ND	ND	ND	ND	ND	
1,2,4-Trichlorobenzene	0.025	0.180-10.0	ND	ND	ND	ND	0.0018	
Trichloroethylene	0.015	0.033-1.99	ND	ND	ND	ND	0.0013	
1,2,4-Trimethyl Benzene	0.015		ND	ND	ND	ND	ND	
1,3,5-Trimethyl Benzene	0.015		ND	ND	ND	ND	ND	
Vinyl chloride	0.010	0.006-0.360	ND	ND	ND	ND	ND	
M-Xylene	0.015	0.063-3.79	ND	ND	ND	ND	ND	
O-Xylene	0.015	0.063-3.79	ND	ND	ND	ND	ND	

TABLE 1-3  
 AIR FORCE PLANT 59  
 SOIL ANALYTICAL DATA SUMMARY  
 FOR VOLATILE ORGANIC COMPOUNDS (SW8260)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)			Ambient Field ID AB1111494 Lab ID 657203	Method Blank (mg/kg)
			Field ID 59BH05SO3 Lab ID 649277	Field ID 59BH05SO2 Lab ID 649265	Field ID 59BH05SO1 Lab ID 649253	Trip Field ID TB1101994 Lab ID 649367	Equipment Field ID EB1101994 Lab ID 649358	Field ID 4.4		
Bromofluorobenzene	74-121		0.052	0.051	0.047	4.4	4.1	4.6	0.041	
Bromomethane	0.010		ND	ND	ND	ND	ND	ND	ND	
n-Butyl Benzene	0.015		ND	ND	ND	ND	ND	ND	ND	
sec-Butyl Benzene	0.015		ND	ND	ND	ND	ND	ND	ND	
Toluene	0.015	0.079-4.74	ND	ND	ND	ND	ND	ND	ND	
Toluene-D8	81-117		0.061	0.061	0.055	5.0	4.9	5.1	0.049	
Chloroethane	0.020	0.098-5.85	ND	ND	ND	ND	ND	ND	ND	
p-Cymene	0.015		ND	ND	ND	ND	ND	ND	ND	
1,2-Dibromo-3-Chloropropane	0.030		ND	ND	ND	ND	ND	ND	ND	
Dibromofluoromethane	80-120		0.070	0.071	0.064	4.9	5.2	5.5	0.051	
1,1-Dichloroethane	0.015	0.008-0.474	ND	0.011 J	0.0018 J	ND	ND	ND	ND	
cis-1,2-Dichloroethylene	0.015		ND	0.0037 J	ND	ND	ND	ND	ND	
Ethylbenzene	0.015	0.291-10.0	ND	ND	ND	ND	ND	ND	ND	
Dichlorodifluoromethane	0.010		ND	ND	ND	ND	ND	ND	ND	
Hexachlorobutadiene	0.025		ND	ND	ND	ND	ND	ND	ND	
Isopropyl Benzene	0.015		ND	ND	ND	ND	ND	ND	ND	
Methylene chloride	0.035	0.006-0.332	0.011 U	0.015 U	0.011 U	0.40	1.5 U	1.0 U	0.0041	
Naphthalene	0.360	0.688-10.0	ND	ND	ND	ND	ND	ND	ND	
n-Propyl Benzene	0.015		ND	ND	ND	ND	ND	ND	ND	
Tetrachloroethylene	0.015	0.073-4.38	ND	ND	ND	ND	ND	ND	ND	
1,1,1-Trichloroethane	0.015	0.040-2.40	ND	0.0025 J	ND	ND	ND	ND	ND	
1,2,3-Trichlorobenzene	0.020		ND	ND	ND	ND	ND	ND	ND	
1,2,4-Trichlorobenzene	0.025	0.180-10.0	ND	ND	ND	ND	ND	ND	ND	
Trichloroethylene	0.015	0.033-1.99	ND	0.015 J	ND	ND	ND	ND	ND	
1,2,4-Trimethyl Benzene	0.015		ND	ND	ND	ND	ND	ND	ND	
1,3,5-Trimethyl Benzene	0.015		ND	ND	ND	ND	ND	ND	ND	
Vinyl chloride	0.010	0.006-0.360	ND	ND	ND	ND	ND	ND	ND	
M-Xylene	0.015	0.063-3.79	ND	ND	ND	ND	ND	ND	ND	
O-Xylene	0.015	0.063-3.79	ND	ND	ND	ND	ND	ND	ND	

TABLE 1-3  
 AIR FORCE PLANT 59  
 SOIL ANALYTICAL DATA SUMMARY  
 FOR VOLATILE ORGANIC COMPOUNDS (SW8260)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)		Field Blanks (ug/l)			Method Blank (mg/kg)	
			Field ID 59BH06SO1 Lab ID 649298	Field ID Lab ID	Trip Field ID TB1101994 Lab ID 649367	Equipment Field ID EB1101994 Lab ID 649358	Ambient Field ID AB1111494 Lab ID 657203	Method Blank Lab ID 649614	
Bromofluorobenzene	(2)	74-121	0.044		4.4	4.1	4.6	0.038	
Bromomethane		0.010	ND		ND	ND	ND	ND	
n-Butyl Benzene		0.015	ND		ND	ND	ND	ND	
sec-Butyl Benzene		0.015	ND		ND	ND	ND	ND	
Toluene		0.079-4.74	ND		ND	ND	ND	ND	
Toluene-D8	(2)	81-117	0.050		5.0	4.9	5.1	0.042	
Chloroethane		0.020	ND		ND	ND	ND	ND	
p-Cymene		0.015	ND		ND	ND	ND	ND	
1,2-Dibromo-3-Chloropropane		0.030	ND		ND	ND	ND	ND	
Dibromofluoromethane	(2)	80-120	0.057		4.9	5.2	5.5	0.046	
1,1-Dichloroethane		0.015	ND		ND	ND	ND	ND	
cis-1,2-Dichloroethylene		0.015	ND		ND	ND	ND	ND	
Ethylbenzene		0.015	ND		ND	ND	ND	ND	
Dichlorodifluoromethane		0.010	ND		ND	ND	ND	ND	
Hexachlorobutadiene		0.025	ND		ND	ND	ND	ND	
Isopropyl Benzene		0.015	ND		ND	ND	ND	ND	
Methylene chloride		0.035	0.0078		0.40	1.5	1.0	0.0051	
Naphthalene		0.360	ND		ND	ND	ND	ND	
n-Propyl Benzene		0.015	ND		ND	ND	ND	ND	
Tetrachloroethylene		0.015	ND		ND	ND	ND	ND	
1,1,1-Trichloroethane		0.015	ND		ND	ND	ND	ND	
1,2,3-Trichlorobenzene		0.020	ND		ND	ND	ND	ND	
1,2,4-Trichlorobenzene		0.025	ND		ND	ND	ND	ND	
Trichloroethylene		0.015	ND		ND	ND	ND	ND	
1,2,4-Trimethyl Benzene		0.015	ND		ND	ND	ND	ND	
1,3,5-Trimethyl Benzene		0.015	ND		ND	ND	ND	ND	
Vinyl chloride		0.010	ND		ND	ND	ND	ND	
M-Xylene		0.015	ND		ND	ND	ND	ND	
O-Xylene		0.015	ND		ND	ND	ND	ND	

TABLE 1-3  
 AIR FORCE PLANT 59  
 SOIL ANALYTICAL DATA SUMMARY  
 FOR VOLATILE ORGANIC COMPOUNDS (SW8260)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)		Field Blanks (ug/l)			Method Blank (mg/kg)	
			Field ID 59BH07SO2 Lab ID 649289	Field ID 59BH07SO1 Lab ID 649283	Field ID Lab ID	Trip Field ID TB1101994 Lab ID 649367	Equipment Field ID EB1101994 Lab ID 649358		Ambient Field ID AB1111494 Lab ID 657203
Bromofluorobenzene	74-121		0.046	0.043		4.4	4.1	4.6	Lab ID 650717
Bromomethane	0.010		ND	ND		ND	ND	ND	0.044
n-Butyl Benzene	0.015		ND	ND		ND	ND	ND	ND
sec-Butyl Benzene	0.015		ND	ND		ND	ND	ND	ND
Toluene	0.015	0.079-4.74	ND	ND		ND	ND	ND	ND
Toluene-D8	81-117		0.054	0.049		5.0	4.9	5.1	0.051
Chloroethane	0.020	0.098-5.85	ND	ND		ND	ND	ND	ND
p-Cymene	0.015		ND	ND		ND	ND	ND	ND
1,2-Dibromo-3-Chloropropane	0.030		ND	ND		ND	ND	ND	ND
Dibromofluoromethane	80-120		0.060	0.057		4.9	5.2	5.5	0.051
1,1-Dichloroethane	0.015	0.008-0.474	ND	ND		ND	ND	ND	ND
cis-1,2-Dichloroethylene	0.015		ND	ND		ND	ND	ND	ND
Ethylbenzene	0.015	0.291-10.0	ND	ND		ND	ND	ND	ND
Dichlorodifluoromethane	0.010		ND	ND		ND	ND	ND	ND
Hexachlorobutadiene	0.025		ND	ND		ND	ND	ND	ND
Isopropyl Benzene	0.015		ND	ND		ND	ND	ND	ND
Methylene chloride	0.035	0.006-0.332	0.020	0.021		0.40	1.5	1.0	0.0096
Naphthalene	0.360	0.688-10.0	ND	ND		ND	ND	ND	0.0010
n-Propyl Benzene	0.015		ND	ND		ND	ND	ND	ND
Tetrachloroethylene	0.015	0.073-4.38	ND	ND		ND	ND	ND	ND
1,1,1-Trichloroethane	0.015	0.040-2.40	ND	ND		ND	ND	ND	ND
1,2,3-Trichlorobenzene	0.020		ND	ND		ND	ND	ND	ND
1,2,4-Trichlorobenzene	0.025	0.180-10.0	ND	ND		ND	ND	ND	ND
Trichloroethylene	0.015	0.033-1.99	0.0032	0.0021		ND	ND	ND	ND
1,2,4-Trimethyl Benzene	0.015		ND	ND		ND	ND	ND	ND
1,3,5-Trimethyl Benzene	0.015		ND	ND		ND	ND	ND	ND
Vinyl chloride	0.010	0.006-0.360	ND	ND		ND	ND	ND	ND
M-Xylene	0.015	0.063-3.79	ND	ND		ND	ND	ND	ND
O-Xylene	0.015	0.063-3.79	ND	ND		ND	ND	ND	ND

TABLE 1-3  
AIR FORCE PLANT 59  
SOIL ANALYTICAL DATA SUMMARY  
FOR VOLATILE ORGANIC COMPOUNDS (SW8260)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)		Field Blanks (ug/l)			Method Blank (mg/kg)	
			Field ID 59BH08SO2 Lab ID 649831	Field ID 59BH08SO1 Lab ID 649825	Field ID Lab ID	Trip Field ID Lab ID	Equipment Field ID Lab ID	Ambient Field ID Lab ID	
Bromofluorobenzene	74-121		0.059	0.052	4.6	4.6	4.7	4.6	Lab ID 650181
Bromomethane	0.010		ND	ND	ND	ND	ND	ND	0.051
n-Butyl Benzene	0.015		ND	ND	ND	ND	ND	ND	ND
sec-Butyl Benzene	0.015		ND	ND	ND	ND	ND	ND	ND
Toluene	0.015	0.079-4.74	ND	ND	ND	ND	ND	ND	ND
Toluene-D8	81-117		0.063	0.055	4.8	5.1	5.0	5.1	0.055
Chloroethane	0.020	0.098-5.85	ND	ND	ND	ND	ND	ND	ND
p-Cymene	0.015		ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-Chloropropane	0.030		ND	ND	ND	ND	ND	ND	ND
Dibromofluoromethane	80-120		0.069	0.061	5.4	5.5	5.4	5.5	0.058
1,1-Dichloroethane	0.015	0.008-0.474	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethylene	0.015		ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	0.015	0.291-10.0	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	0.010		ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	0.025		ND	ND	ND	ND	ND	ND	ND
Isopropyl Benzene	0.015		ND	ND	ND	ND	ND	ND	ND
Methylene chloride	0.035	0.006-0.332	0.015	0.037	1.1	U	0.90	1.0	0.013
Naphthalene	0.360	0.688-10.0	ND	ND	ND	ND	ND	ND	0.0028
n-Propyl Benzene	0.015		ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene	0.015	0.073-4.38	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	0.015	0.040-2.40	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	0.020		ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	0.025	0.180-10.0	ND	ND	ND	ND	ND	ND	0.0024
Trichloroethylene	0.015	0.033-1.99	ND	ND	ND	ND	ND	ND	0.0015
1,2,4-Trimethyl Benzene	0.015		ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethyl Benzene	0.015		ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	0.010	0.006-0.360	ND	ND	ND	ND	ND	ND	ND
M-Xylene	0.015	0.063-3.79	ND	ND	ND	ND	ND	ND	ND
O-Xylene	0.015	0.063-3.79	ND	ND	ND	ND	ND	ND	ND

TABLE 1-3  
AIR FORCE PLANT 59  
SOIL ANALYTICAL DATA SUMMARY  
FOR VOLATILE ORGANIC COMPOUNDS (SW8260)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)				Field Blanks (ug/l)				Method Blank (mg/kg)	
			Field ID 59BH09SO2 Lab ID 649870	Field ID 59BH08SO9 Lab ID 649843	Field ID 59BH08SO3 Lab ID 649837	Field ID TB1102094 Lab ID 649809	Trip Lab ID 649809	Equipment Field ID EB1102094 Lab ID 649799	Ambient Field ID AB1111494 Lab ID 657203	Lab ID 650181	Lab ID 650181	
Bromofluorobenzene (2)	74-121		0.048	0.052	0.048	4.6	4.7	4.6	0.051			
Bromomethane	0.010		ND	ND	ND	ND	ND	ND	ND			
n-Butyl Benzene	0.015		ND	ND	ND	ND	ND	ND	ND			
sec-Butyl Benzene	0.015		ND	ND	ND	ND	ND	ND	ND			
Toluene	0.015	0.079-4.74	ND	ND	ND	ND	ND	ND	ND			
Toluene-D8 (2)	81-117		0.053	0.056	0.052	4.8	5.0	5.1	0.055			
Chloroethane	0.020	0.098-5.85	ND	ND	ND	ND	ND	ND	ND			
p-Cymene	0.015		ND	ND	ND	ND	ND	ND	ND			
1,2-Dibromo-3-Chloropropane	0.030		ND	ND	ND	ND	ND	ND	ND			
Dibromofluoromethane (2)	80-120		0.059	0.062	0.057	5.4	5.4	5.5	0.058			
1,1-Dichloroethane	0.015	0.008-0.474	ND	ND	ND	ND	ND	ND	ND			
cis-1,2-Dichloroethylene	0.015		ND	ND	ND	ND	ND	ND	ND			
Ethylbenzene	0.015	0.291-10.0	ND	ND	ND	ND	ND	ND	ND			
Dichlorodifluoromethane	0.010		ND	ND	ND	ND	ND	ND	ND			
Hexachlorobutadiene	0.025		ND	ND	ND	ND	ND	ND	ND			
Isopropyl Benzene	0.015		ND	ND	ND	ND	ND	ND	ND			
Methylene chloride	0.035	0.006-0.332	0.013	0.014	0.014	1.1	0.90	1.0	0.013			
Naphthalene	0.360	0.688-10.0	ND	ND	ND	ND	ND	ND	0.0028			
n-Propyl Benzene	0.015		ND	ND	ND	ND	ND	ND	ND			
Tetrachloroethylene	0.015	0.073-4.38	ND	ND	ND	ND	ND	ND	ND			
1,1,1-Trichloroethane	0.015	0.040-2.40	0.0030	ND	ND	ND	ND	ND	ND			
1,2,3-Trichlorobenzene	0.020		ND	ND	ND	ND	ND	ND	ND			
1,2,4-Trichlorobenzene	0.025	0.180-10.0	ND	ND	ND	ND	ND	ND	0.0024			
Trichloroethylene	0.015	0.033-1.99	0.0074	ND	ND	ND	ND	ND	0.0015			
1,2,4-Trimethyl Benzene	0.015		ND	ND	ND	ND	ND	ND	ND			
1,3,5-Trimethyl Benzene	0.015		ND	ND	ND	ND	ND	ND	ND			
Vinyl chloride	0.010	0.006-0.360	ND	ND	ND	ND	ND	ND	ND			
M-Xylene	0.015	0.063-3.79	ND	ND	ND	ND	ND	ND	ND			
O-Xylene	0.015	0.063-3.79	ND	ND	ND	ND	ND	ND	ND			



TABLE 1-3  
 AIR FORCE PLANT 59  
 SOIL ANALYTICAL DATA SUMMARY  
 FOR VOLATILE ORGANIC COMPOUNDS (SW8260)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)		Field Blanks (ug/l)			Ambient Field ID Lab ID	Method Blank (mg/kg)
			Field ID Lab ID	Field ID Lab ID	Trip Field ID Lab ID	Equipment Field ID Lab ID			
Bromofluorobenzene	(2)	74-121	59BH09SO1 Lab ID 649852	4.6	TB1102094 Lab ID 649809	4.7	EB1102094 Lab ID 649799	AB1111494 Lab ID 657203	Lab ID 651070
Bromomethane	0.010		0.045	ND	ND	ND	ND	4.6	0.055
n-Butyl Benzene	0.015		ND	ND	ND	ND	ND	ND	ND
sec-Butyl Benzene	0.015		ND	ND	ND	ND	ND	ND	ND
Toluene	0.015	0.079-4.74	ND	ND	ND	ND	ND	ND	ND
Toluene-D8	81-117		0.047	4.8	4.8	5.0	5.1	5.1	0.055
Chloroethane	0.020	0.098-5.85	ND	ND	ND	ND	ND	ND	ND
p-Cymene	0.015		ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-Chloropropane	0.030		ND	ND	ND	ND	ND	ND	0.0019
Dibromofluoromethane	80-120		0.056	5.4	5.4	5.4	5.5	5.5	0.058
1,1-Dichloroethane	0.015	0.008-0.474	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethylene	0.015		ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	0.015	0.291-10.0	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	0.010		ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	0.025		ND	ND	ND	ND	ND	ND	ND
Isopropyl Benzene	0.015		ND	ND	ND	ND	ND	ND	ND
Methylene chloride	0.035	0.006-0.332	0.019	1.1	1.1	0.90	U	1.0	0.013
Naphthalene	0.360	0.688-10.0	ND	ND	ND	ND	ND	ND	0.0034
n-Propyl Benzene	0.015		ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene	0.015	0.073-4.38	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	0.015	0.040-2.40	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	0.020		ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	0.025	0.180-10.0	ND	ND	ND	ND	ND	ND	0.0016
Trichloroethylene	0.015	0.033-1.99	0.0084	ND	ND	ND	ND	ND	0.0012
1,2,4-Trimethyl Benzene	0.015		ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethyl Benzene	0.015		ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	0.010	0.006-0.360	ND	ND	ND	ND	ND	ND	ND
M-Xylene	0.015	0.063-3.79	ND	ND	ND	ND	ND	ND	ND
O-Xylene	0.015	0.063-3.79	ND	ND	ND	ND	ND	ND	ND

TABLE 1-3  
 AIR FORCE PLANT 59  
 SOIL ANALYTICAL DATA SUMMARY  
 FOR VOLATILE ORGANIC COMPOUNDS (SW8260)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)			Method Blank (mg/kg)	
			Field ID 59BH09SO9 Lab ID 649891	Field ID 59BH09SO4 Lab ID 649882	Field ID 59BH09SO3 Lab ID 649876	Trip Field ID TB1102094 Lab ID 649809	Equipment Field ID EB1102094 Lab ID 649799	Ambient Field ID AB1111494 Lab ID 657203	Lab ID 650181	Method Blank (mg/kg)
Bromofluorobenzene	74-121		0.055	0.046	0.045	4.6	4.7	4.6	Lab ID 650181	0.051
Bromomethane	0.010		ND	ND	ND	ND	ND	ND	ND	ND
n-Butyl Benzene	0.015		ND	ND	ND	ND	ND	ND	ND	ND
sec-Butyl Benzene	0.015		ND	ND	ND	ND	ND	ND	ND	ND
Toluene	0.015	0.079-4.74	ND	ND	ND	ND	ND	ND	ND	ND
Toluene-D8	81-117		0.083	0.049	0.047	4.8	5.0	5.1	0.055	0.055
Chloroethane	0.020	0.098-5.85	ND	ND	ND	ND	ND	ND	ND	ND
p-Cymene	0.015		ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-Chloropropane	0.030		ND	ND	ND	ND	ND	ND	ND	ND
Dibromofluoromethane	80-120		0.11	0.055	0.053	5.4	5.4	5.5	0.058	0.058
1,1-Dichloroethane	0.015	0.008-0.474	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethylene	0.015		ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	0.015	0.291-10.0	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	0.010		ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	0.025		ND	ND	ND	ND	ND	ND	ND	ND
Isopropyl Benzene	0.015		ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	0.035	0.006-0.332	0.024	0.010	0.0092	1.1	0.90	1.0	0.013	0.013
Naphthalene	0.360	0.688-10.0	ND	ND	ND	ND	ND	ND	0.0028	0.0028
n-Propyl Benzene	0.015		ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene	0.015	0.073-4.38	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	0.015	0.040-2.40	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	0.020		ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	0.025	0.180-10.0	ND	ND	ND	ND	ND	ND	0.0024	0.0024
Trichloroethylene	0.015	0.033-1.99	0.070	ND	ND	ND	ND	ND	0.0015	0.0015
1,2,4-Trimethyl Benzene	0.015		ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethyl Benzene	0.015		ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	0.010	0.006-0.360	ND	ND	ND	ND	ND	ND	ND	ND
M-Xylene	0.015	0.063-3.79	ND	ND	ND	ND	ND	ND	ND	ND
O-Xylene	0.015	0.063-3.79	ND	ND	ND	ND	ND	ND	ND	ND



TABLE 1-3  
 AIR FORCE PLANT 59  
 SOIL ANALYTICAL DATA SUMMARY  
 FOR VOLATILE ORGANIC COMPOUNDS (SW8260)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)				Field Blanks (ug/l)				Method Blank (mg/kg)
			Field ID 59BH11SO2 Lab ID 650117	Field ID 59BH11SO1 Lab ID 650111	Field ID 59BH10SO2 Lab ID 650135	Trip Field ID TB1102194 Lab ID 650099	Equipment Field ID EB1102194 Lab ID 650094	Ambient Field ID AB1111494 Lab ID 657203			
Bromofluorobenzene	74-121		0.061	0.059	0.054	4.8	4.8	4.6	4.6	0.055	
Bromomethane	0.010		ND	ND	ND	ND	ND	ND	ND	ND	
n-Butyl Benzene	0.015		ND	ND	ND	ND	ND	ND	ND	ND	
sec-Butyl Benzene	0.015		ND	ND	ND	ND	ND	ND	ND	ND	
Toluene	0.015	0.079-4.74	ND	ND	ND	ND	ND	ND	ND	ND	
Toluene-D8	81-117		0.061	0.061	0.055	4.5	4.7	5.1	5.1	0.055	
Chloroethane	0.020	0.098-5.85	ND	ND	ND	ND	ND	ND	ND	ND	
p-Cymene	0.015		ND	ND	ND	ND	ND	ND	ND	ND	
1,2-Dibromo-3-Chloropropane	0.030		ND	ND	ND	ND	ND	ND	ND	0.0019	
Dibromofluoromethane	80-120		0.065	0.064	0.059	5.4	5.3	5.5	5.5	0.058	
1,1-Dichloroethane	0.015	0.008-0.474	ND	0.0042 J	ND	ND	ND	ND	ND	ND	
cis-1,2-Dichloroethylene	0.015		0.0022 J	0.029	ND	ND	ND	ND	ND	ND	
Ethylbenzene	0.015	0.291-10.0	ND	ND	ND	ND	ND	ND	ND	ND	
Dichlorodifluoromethane	0.010		ND	ND	ND	ND	ND	ND	ND	ND	
Hexachlorobutadiene	0.025		ND	ND	ND	ND	ND	ND	ND	ND	
Isopropyl Benzene	0.015		ND	ND	ND	ND	ND	ND	ND	ND	
Methylene chloride	0.035	0.006-0.332	0.021 U	0.020 U	0.013 U	1.3	6.4	1.0	1.0	0.013	
Naphthalene	0.360	0.688-10.0	ND	0.0022 U	ND	ND	ND	ND	ND	0.0034	
n-Propyl Benzene	0.015		ND	ND	ND	ND	ND	ND	ND	ND	
Tetrachloroethylene	0.015	0.073-4.38	ND	ND	ND	ND	ND	ND	ND	ND	
1,1,1-Trichloroethane	0.015	0.040-2.40	ND	ND	ND	ND	ND	ND	ND	ND	
1,2,3-Trichlorobenzene	0.020		ND	ND	ND	ND	ND	ND	ND	ND	
1,2,4-Trichlorobenzene	0.025	0.180-10.0	ND	ND	ND	ND	ND	ND	ND	0.0016	
Trichloroethylene	0.015	0.033-1.99	0.0015 J	0.013 J	ND	ND	ND	ND	ND	0.0012	
1,2,4-Trimethyl Benzene	0.015		ND	ND	ND	ND	ND	ND	ND	ND	
1,3,5-Trimethyl Benzene	0.015		ND	ND	ND	ND	ND	ND	ND	ND	
Vinyl chloride	0.010	0.006-0.360	ND	ND	ND	ND	ND	ND	ND	ND	
M-Xylene	0.015	0.063-3.79	ND	ND	ND	ND	ND	ND	ND	ND	
O-Xylene	0.015	0.063-3.79	ND	ND	ND	ND	ND	ND	ND	ND	

AIR FORCE PLANT 59  
SOIL ANALYTICAL DATA SUMMARY  
FOR VOLATILE ORGANIC COMPOUNDS (SW8260)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)		Field Blanks (ug/l)			Method Blank (mg/kg)	
			Field ID 59BH11SO3 Lab ID 650105	Field ID 59BH10SO3 Lab ID 650123	Field ID Lab ID	Trip Field ID TB1102194 Lab ID 650099	Equipment Field ID EB1102194 Lab ID 650094	Ambient Field ID AB1111494 Lab ID 657203	Lab ID 650179
Bromofluorobenzene	74-121		0.049	0.057		4.8	4.8	4.6	0.057
Bromomethane	0.010		ND	ND		ND	ND	ND	ND
n-Butyl Benzene	0.015		0.047	0.0032 J		ND	ND	ND	ND
sec-Butyl Benzene	0.015		0.011 J	0.0014 J		ND	ND	ND	ND
Toluene	0.015	0.079-4.74	0.0013 J	ND		ND	ND	ND	ND
Toluene-D8	81-117		0.058	0.058		4.5	4.7	5.1	0.057
Chloroethane	0.020	0.098-5.85	ND	ND		ND	ND	ND	ND
p-Cymene	0.015		0.053	ND		ND	ND	ND	ND
1,2-Dibromo-3-Chloropropane	0.030		ND	ND		ND	ND	ND	ND
Dibromofluoromethane	80-120		0.060 J	0.055		5.4	5.3	5.5	0.059
1,1-Dichloroethane	0.015	0.008-0.474	ND	ND		ND	ND	ND	ND
cis-1,2-Dichloroethylene	0.015		ND	ND		ND	ND	ND	ND
Ethylbenzene	0.015	0.291-10.0	0.0013 J	ND		ND	ND	ND	ND
Dichlorodifluoromethane	0.010		ND	ND		ND	ND	ND	ND
Hexachlorobutadiene	0.025		ND	ND		ND	ND	ND	ND
Isopropyl Benzene	0.015		0.0027 J	ND		ND	ND	ND	ND
Methylene chloride	0.035	0.006-0.332	0.011 U	0.010 U		1.3	6.4	1.0	0.0086
Naphthalene	0.360	0.688-10.0	ND	0.0067 U		ND	ND	ND	0.0024
n-Propyl Benzene	0.015		0.0078 J	0.0014 J		ND	ND	ND	ND
Tetrachloroethylene	0.015	0.073-4.38	ND	ND		ND	ND	ND	ND
1,1,1-Trichloroethane	0.015	0.040-2.40	ND	ND		ND	ND	ND	ND
1,2,3-Trichlorobenzene	0.020		ND	ND		ND	ND	ND	0.0017
1,2,4-Trichlorobenzene	0.025	0.180-10.0	ND	ND		ND	ND	ND	0.0014
Trichloroethylene	0.015	0.033-1.99	ND	ND		ND	ND	ND	ND
1,2,4-Trimethyl Benzene	0.015		0.070	0.0092 J		ND	ND	ND	ND
1,3,5-Trimethyl Benzene	0.015		0.19	0.025		ND	ND	ND	ND
Vinyl chloride	0.010	0.006-0.360	ND	ND		ND	ND	ND	ND
M-Xylene	0.015	0.063-3.79	0.0066 J	0.0018 J		ND	ND	ND	ND
O-Xylene	0.015	0.063-3.79	0.0062 J	ND		ND	ND	ND	ND

TABLE 1-3  
 AIR FORCE PLANT 59  
 SOIL ANALYTICAL DATA SUMMARY  
 FOR VOLATILE ORGANIC COMPOUNDS (SW8260)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)		Field Blanks (ug/l)			Method Blank (mg/kg)	
			Field ID Lab ID	Field ID Lab ID	Trip Field ID Lab ID	Equipment Field ID Lab ID	Ambient Field ID Lab ID	Field ID Lab ID	
Bromofluorobenzene	74-121		59BH12SO1 650487		TB1102394 5.4	EB1102394 5.4	AB1111494 4.6	Lab ID 650679	
Bromomethane	0.010		0.055 ND		ND	ND	ND	0.054 ND	
n-Butyl Benzene	0.015		ND		ND	ND	ND	0.0016	
sec-Butyl Benzene	0.015	0.079-4.74	ND		ND	ND	ND	ND	
Toluene	0.015		ND		ND	ND	ND	ND	
Toluene-D8	81-117		0.059		5.9	5.9	5.1	0.055	
Chloroethane	0.020	0.098-5.85	ND		ND	ND	ND	ND	
p-Cymene	0.015		ND		ND	ND	ND	0.0011	
1,2-Dibromo-3-Chloropropane	0.030		ND		ND	ND	ND	0.0025	
Dibromofluoromethane	80-120		0.059		5.5	5.3	5.5	0.057	
1,1-Dichloroethane	0.015	0.008-0.474	ND		ND	ND	ND	ND	
cis-1,2-Dichloroethylene	0.015		0.013	J	ND	ND	ND	ND	
Ethylbenzene	0.015	0.291-10.0	ND		ND	ND	ND	ND	
Dichlorodifluoromethane	0.010		ND		ND	ND	ND	ND	
Hexachlorobutadiene	0.025		ND		ND	ND	ND	ND	
Isopropyl Benzene	0.015		ND		ND	ND	ND	0.0040	
Methylene chloride	0.035	0.006-0.332	0.013	U	1.6	1.0	1.0	0.015	
Naphthalene	0.360	0.688-10.0	0.0038	U	ND	ND	ND	0.012	
n-Propyl Benzene	0.015		ND		ND	ND	ND	ND	
Tetrachloroethylene	0.015	0.073-4.38	ND		ND	ND	ND	ND	
1,1,1-Trichloroethane	0.015	0.040-2.40	ND		ND	ND	ND	ND	
1,2,3-Trichlorobenzene	0.020		0.0030	U	ND	ND	ND	ND	
1,2,4-Trichlorobenzene	0.025	0.180-10.0	0.0018	U	ND	ND	ND	0.011	
Trichloroethylene	0.015	0.033-1.99	ND		ND	ND	ND	0.0067	
1,2,4-Trimethyl Benzene	0.015		0.0026	J	ND	ND	ND	ND	
1,3,5-Trimethyl Benzene	0.015		0.0046	J	ND	ND	ND	ND	
Vinyl chloride	0.010	0.006-0.360	ND		ND	ND	ND	ND	
M-Xylene	0.015	0.063-3.79	ND		ND	ND	ND	ND	
O-Xylene	0.015	0.063-3.79	ND		ND	ND	ND	ND	

TABLE 1-3  
 AIR FORCE PLANT 59  
 SOIL ANALYTICAL DATA SUMMARY  
 FOR VOLATILE ORGANIC COMPOUNDS (SW8260)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)				Field Blanks (ug/l)			Ambient Field ID AB1111494 Lab ID 657203	Method Blank (mg/kg)
			Field ID 59BH12SO9 Lab ID 650540	Field ID 59BH12SO3 Lab ID 650499	Field ID 59BH12SO2 Lab ID 650493	Trip TB1102394 Lab ID 650557	Equipment EB1102394 Lab ID 650558				
Bromofluorobenzene (2)	74-121		0.059	0.054	0.059	5.4	5.4	4.6	0.054		
Bromomethane	0.010		ND	ND	ND	ND	ND	ND	ND		
n-Butyl Benzene	0.015		ND	ND	ND	ND	ND	ND	0.0016		
sec-Butyl Benzene	0.015		ND	ND	ND	ND	ND	ND	ND		
Toluene	0.015	0.079-4.74	ND	ND	ND	ND	ND	ND	ND		
Toluene-D8 (2)	81-117		0.061	0.056	0.063	5.9	5.9	5.1	0.055		
Chloroethane	0.020	0.098-5.85	ND	ND	0.0045 J	ND	ND	ND	ND		
p-Cymene	0.015		ND	ND	ND	ND	ND	ND	0.0011		
1,2-Dibromo-3-Chloropropane	0.030		ND	ND	ND	ND	ND	ND	0.0025		
Dibromofluoromethane (2)	80-120		0.068	0.060	0.066	5.5	5.3	5.5	0.057		
1,1-Dichloroethane	0.015	0.008-0.474	0.0041 J	0.0016 J	ND	ND	ND	ND	ND		
cis-1,2-Dichloroethylene	0.015		0.0020 J	0.0064 J	0.11	ND	ND	ND	ND		
Ethylbenzene	0.015	0.291-10.0	ND	ND	ND	ND	ND	ND	ND		
Dichlorodifluoromethane	0.010		ND	ND	ND	ND	ND	ND	ND		
Hexachlorobutadiene	0.025		ND	ND	ND	ND	ND	ND	0.0040		
Isopropyl Benzene	0.015		ND	ND	ND	ND	ND	ND	ND		
Methylene chloride	0.035	0.006-0.332	0.023 U	0.019 U	0.020 U	1.6	1.0	1.0	0.015		
Naphthalene	0.360	0.688-10.0	ND	0.0014 U	0.0019 U	ND	ND	ND	0.012		
n-Propyl Benzene	0.015		ND	ND	ND	ND	ND	ND	ND		
Tetrachloroethylene	0.015	0.073-4.38	ND	ND	ND	ND	ND	ND	ND		
1,1,1-Trichloroethane	0.015	0.040-2.40	ND	ND	ND	ND	ND	ND	ND		
1,2,3-Trichlorobenzene	0.020		ND	ND	0.0016 U	ND	ND	ND	0.011		
1,2,4-Trichlorobenzene	0.025	0.180-10.0	ND	ND	ND	ND	ND	ND	0.0067		
Trichloroethylene	0.015	0.033-1.99	ND	ND	ND	ND	ND	ND	ND		
1,2,4-Trimethyl Benzene	0.015		ND	ND	ND	ND	ND	ND	ND		
1,3,5-Trimethyl Benzene	0.015		ND	ND	ND	ND	ND	ND	ND		
Vinyl chloride	0.010	0.006-0.360	ND	ND	0.015	ND	ND	ND	ND		
M-Xylene	0.015	0.063-3.79	ND	ND	ND	ND	ND	ND	ND		
O-Xylene	0.015	0.063-3.79	ND	ND	ND	ND	ND	ND	ND		

TABLE 1-3  
 AIR FORCE PLANT 59  
 SOIL ANALYTICAL DATA SUMMARY  
 FOR VOLATILE ORGANIC COMPOUNDS (SW8260)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)		Field Blanks (ug/l)			Ambient Field ID	Method Blank (mg/kg)
			Field ID 59SW10SO2 Lab ID 650512	Field ID 59SW10SO1 Lab ID 650546	Field ID Lab ID	Trip Field ID TB1102394 Lab ID 650557	Equipment Field ID EB1102394 Lab ID 650558		
Bromofluorobenzene (2)	74-121		0.053	0.045	5.4	5.4	4.6	Lab ID 650679	
Bromomethane	0.010		ND	ND	ND	ND	ND	0.054	
n-Butyl Benzene	0.015		ND	ND	ND	ND	ND	ND	
sec-Butyl Benzene	0.015		ND	ND	ND	ND	ND	0.0016	
Toluene	0.015	0.079-4.74	ND	ND	ND	ND	ND	ND	
Toluene-D8 (2)	81-117		0.053	0.046	5.9	5.9	5.1	0.055	
Chloroethane	0.020	0.098-5.85	ND	ND	ND	ND	ND	ND	
p-Cymene	0.015		ND	ND	ND	ND	ND	0.0011	
1,2-Dibromo-3-Chloropropane	0.030		ND	ND	ND	ND	ND	0.0025	
Dibromofluoromethane (2)	80-120		0.060	0.053	5.5	5.3	5.5	0.057	
1,1-Dichloroethane	0.015	0.008-0.474	ND	ND	ND	ND	ND	ND	
cis-1,2-Dichloroethylene	0.015		ND	ND	ND	ND	ND	ND	
Ethylbenzene	0.015	0.291-10.0	ND	ND	ND	ND	ND	ND	
Dichlorodifluoromethane	0.010		ND	ND	ND	ND	ND	ND	
Hexachlorobutadiene	0.025		ND	ND	ND	ND	ND	0.0040	
Isopropyl Benzene	0.015		ND	ND	ND	ND	ND	ND	
Methylene chloride	0.035	0.006-0.332	0.023	0.036	1.6	U	1.0	0.015	
Naphthalene	0.360	0.688-10.0	ND	ND	ND	ND	ND	0.012	
n-Propyl Benzene	0.015		ND	ND	ND	ND	ND	ND	
Tetrachloroethylene	0.015	0.073-4.38	ND	ND	ND	ND	ND	ND	
1,1,1-Trichloroethane	0.015	0.040-2.40	ND	ND	ND	ND	ND	ND	
1,2,3-Trichlorobenzene	0.020		ND	ND	ND	ND	ND	0.011	
1,2,4-Trichlorobenzene	0.025	0.180-10.0	ND	ND	ND	ND	ND	0.0067	
Trichloroethylene	0.015	0.033-1.99	ND	ND	ND	ND	ND	ND	
1,2,4-Trimethyl Benzene	0.015		ND	ND	ND	ND	ND	ND	
1,3,5-Trimethyl Benzene	0.015		ND	ND	ND	ND	ND	ND	
Vinyl chloride	0.010	0.006-0.360	ND	ND	ND	ND	ND	ND	
m-Xylene	0.015	0.063-3.79	ND	ND	ND	ND	ND	ND	
o-Xylene	0.015	0.063-3.79	ND	ND	ND	ND	ND	ND	



TABLE 1-3  
 AIR FORCE PLANT 59  
 SOIL ANALYTICAL DATA SUMMARY  
 FOR VOLATILE ORGANIC COMPOUNDS (SW8260)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)		Field Blanks (ug/l)			Method Blank (mg/kg)
			Field ID Lab ID	Field ID Lab ID	Trip Field ID Lab ID	Equipment Field ID Lab ID	Ambient Field ID Lab ID	
Bromofluorobenzene	74-121		59SW10SO3		TB1102394	EB1102394	AB1111494	Lab ID 652366
Bromomethane	0.010		650552		5.4	5.4	4.6	0.049
n-Butyl Benzene	0.015		ND		ND	ND	ND	ND
sec-Butyl Benzene	0.015		ND		ND	ND	ND	0.0010
Toluene	0.015	0.079-4.74	ND		ND	ND	ND	ND
Toluene-D8	81-117		0.064		5.9	5.9	5.1	0.052
Chloroethane	0.020	0.098-5.85	ND		ND	ND	ND	ND
p-Cymene	0.015		ND		ND	ND	ND	ND
1,2-Dibromo-3-Chloropropane	0.030		ND		ND	ND	ND	0.0018
Dibromofluoromethane	80-120		0.071		5.5	5.3	5.5	0.054
1,1-Dichloroethane	0.015	0.008-0.474	ND		ND	ND	ND	ND
cis-1,2-Dichloroethylene	0.015		ND		ND	ND	ND	ND
Ethylbenzene	0.015	0.291-10.0	ND		ND	ND	ND	ND
Dichlorodifluoromethane	0.010		ND		ND	ND	ND	ND
Hexachlorobutadiene	0.025		ND		ND	ND	ND	0.0024
Isopropyl Benzene	0.015		ND		ND	ND	ND	ND
Methylene chloride	0.035	0.006-0.332	0.0079	U	1.6	1.0	1.0	0.0046
Naphthalene	0.360	0.688-10.0	0.0036	U	ND	ND	ND	0.0076
n-Propyl Benzene	0.015		ND		ND	ND	ND	ND
Tetrachloroethylene	0.015	0.073-4.38	ND		ND	ND	ND	ND
1,1,1-Trichloroethane	0.015	0.040-2.40	ND		ND	ND	ND	ND
1,2,3-Trichlorobenzene	0.020		0.0026	U	ND	ND	ND	0.0065
1,2,4-Trichlorobenzene	0.025	0.180-10.0	0.0019	U	ND	ND	ND	0.0045
Trichloroethylene	0.015	0.033-1.99	ND		ND	ND	ND	ND
1,2,4-Trimethyl Benzene	0.015		ND		ND	ND	ND	ND
1,3,5-Trimethyl Benzene	0.015		ND		ND	ND	ND	ND
Vinyl chloride	0.010	0.006-0.360	ND		ND	ND	ND	ND
M-Xylene	0.015	0.063-3.79	ND		ND	ND	ND	ND
O-Xylene	0.015	0.063-3.79	ND		ND	ND	ND	ND

TABLE 1-3  
 AIR FORCE PLANT 59  
 SOIL ANALYTICAL DATA SUMMARY  
 FOR VOLATILE ORGANIC COMPOUNDS (SW8260)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)			Method Blank (mg/kg)	
			Field ID 59SW11SO3 Lab ID 655382	Field ID 59SW11SO2 Lab ID 655376	Field ID 59SW11SO1 Lab ID 655368	Trip Field ID TB1110994 Lab ID 655383	Equipment Field ID EB1110994 Lab ID 655386	Ambient Field ID AB1111494 Lab ID 657203	Method Blank Lab ID 655730	
Bromofluorobenzene (2)	74-121		0.057	0.058	0.048	4.4	4.6	4.6	0.045	
Bromomethane	0.010		ND	ND	ND	ND	ND	ND	ND	
n-Butyl Benzene	0.015		0.012	ND	ND	ND	ND	ND	ND	
sec-Butyl Benzene	0.015		ND	ND	ND	ND	ND	ND	ND	
Toluene	0.015	0.079-4.74	ND	ND	ND	ND	ND	ND	ND	
Toluene-D8 (2)	81-117		0.063	0.062	0.055	4.1	4.9	5.1	0.050	
Chloroethane	0.020		ND	ND	ND	ND	ND	ND	ND	
p-Cymene	0.015		0.014	ND	ND	ND	ND	ND	ND	
1,2-Dibromo-3-Chloropropane	0.030		ND	ND	ND	ND	ND	ND	ND	
Dibromofluoromethane (2)	80-120		0.052	0.062	0.049	5.4	5.5	5.5	0.051	
1,1-Dichloroethane	0.015	0.008-0.474	ND	ND	ND	ND	ND	ND	ND	
cis-1,2-Dichloroethylene	0.015		ND	ND	ND	ND	ND	ND	ND	
Ethylbenzene	0.015	0.291-10.0	0.0013	ND	ND	ND	ND	ND	ND	
Dichlorodifluoromethane	0.010		ND	ND	ND	ND	ND	ND	ND	
Hexachlorobutadiene	0.025		ND	ND	ND	ND	ND	ND	ND	
Isopropyl Benzene	0.015		0.0028	ND	ND	ND	ND	ND	ND	
Methylene chloride	0.035	0.006-0.332	0.012	0.0065	0.0078	1.5	0.81	1.0	0.0029	
Naphthalene	0.360	0.688-10.0	0.011	ND	ND	ND	ND	ND	ND	
n-Propyl Benzene	0.015		0.0077	ND	ND	ND	ND	ND	ND	
Tetrachloroethylene	0.015	0.073-4.38	ND	ND	ND	ND	ND	ND	ND	
1,1,1-Trichloroethane	0.015	0.040-2.40	ND	ND	ND	ND	ND	ND	ND	
1,2,3-Trichlorobenzene	0.020		ND	ND	ND	ND	ND	ND	ND	
1,2,4-Trichlorobenzene	0.025	0.180-10.0	ND	ND	ND	ND	ND	ND	ND	
Trichloroethylene	0.015	0.033-1.99	ND	ND	ND	ND	ND	ND	ND	
1,2,4-Trimethyl Benzene	0.015		0.019	ND	ND	ND	ND	ND	ND	
1,3,5-Trimethyl Benzene	0.015		0.088	ND	ND	ND	ND	ND	ND	
Vinyl chloride	0.010	0.006-0.360	ND	ND	ND	ND	ND	ND	ND	
M-Xylene	0.015	0.063-3.79	0.0020	ND	ND	ND	ND	ND	ND	
O-Xylene	0.015	0.063-3.79	0.0036	ND	ND	ND	ND	ND	ND	

TABLE 1-3  
AIR FORCE PLANT 59  
SOIL ANALYTICAL DATA SUMMARY  
FOR VOLATILE ORGANIC COMPOUNDS (SW8260)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)		Field Blanks (ug/l)			Ambient Field ID AB1111494 Lab ID 657203	Method Blank (mg/kg)
			Field ID Lab ID	Field ID Lab ID	Trip Field ID Lab ID	Equipment Field ID Lab ID			
Bromofluorobenzene	74-121		59SW12S01		4.6	4.4	4.6	Lab ID 658557	
Bromomethane	0.010		ND		ND	ND	ND	0.052	
n-Butyl Benzene	0.015		ND		ND	ND	ND	ND	
sec-Butyl Benzene	0.015		ND		ND	ND	ND	ND	
Toluene	0.015	0.079-4.74	ND		ND	ND	ND	ND	
Toluene-D8	81-117		0.059		5.2	5.1	5.1	0.050	
Chloroethane	0.020	0.098-5.85	ND		ND	ND	ND	ND	
p-Cymene	0.015		ND		ND	ND	ND	ND	
1,2-Dibromo-3-Chloropropane	0.030		ND		ND	ND	ND	ND	
Dibromofluoromethane	80-120		0.062		5.7	5.5	5.5	0.055	
1,1-Dichloroethane	0.015	0.008-0.474	ND		ND	ND	ND	ND	
cis-1,2-Dichloroethylene	0.015		ND		ND	ND	ND	ND	
Ethylbenzene	0.015	0.291-10.0	ND		ND	ND	ND	ND	
Dichlorodifluoromethane	0.010		ND		ND	ND	ND	ND	
Hexachlorobutadiene	0.025		ND		ND	ND	ND	ND	
Isopropyl Benzene	0.015		ND		ND	ND	ND	ND	
Methylene chloride	0.035	0.006-0.332	0.019		1.3	1.1	1.0	0.014	
Naphthalene	0.360	0.688-10.0	U		ND	ND	ND	ND	
n-Propyl Benzene	0.015		ND		ND	ND	ND	ND	
Tetrachloroethylene	0.015	0.073-4.38	ND		ND	ND	ND	ND	
1,1,1-Trichloroethane	0.015	0.040-2.40	ND		ND	ND	ND	ND	
1,2,3-Trichlorobenzene	0.020		ND		ND	ND	ND	ND	
1,2,4-Trichlorobenzene	0.025	0.180-10.0	ND		ND	ND	ND	ND	
Trichloroethylene	0.015	0.033-1.99	ND		ND	ND	ND	ND	
1,2,4-Trimethyl Benzene	0.015		ND		ND	ND	ND	ND	
1,3,5-Trimethyl Benzene	0.015		ND		ND	ND	ND	ND	
Vinyl chloride	0.010	0.006-0.360	ND		ND	ND	ND	ND	
M-Xylene	0.015	0.063-3.79	ND		ND	ND	ND	ND	
O-Xylene	0.015	0.063-3.79	ND		ND	ND	ND	ND	

TABLE 1-3  
 AIR FORCE PLANT 59  
 SOIL ANALYTICAL DATA SUMMARY  
 FOR VOLATILE ORGANIC COMPOUNDS (SW&260)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)				Field Blanks (ug/l)			Method Blank (mg/kg)	
			Field ID		Field ID	Trip	Equipment	Ambient	Field ID	Lab ID	
			59SW12SO3 Lab ID	59SW12SO2 Lab ID	Lab ID	Field ID	Field ID	Field ID			
Bromofluorobenzene	74-121		0.058	0.048		4.6	4.4	4.6	Lab ID	658557	
Bromomethane	0.010		ND	ND		ND	ND	ND	ND	ND	
n-Butyl Benzene	0.015		ND	ND		ND	ND	ND	ND	ND	
sec-Butyl Benzene	0.015		ND	ND		ND	ND	ND	ND	ND	
Toluene	0.015	0.079-4.74	ND	ND		ND	ND	ND	ND	ND	
Toluene-D8	81-117		0.060	0.055		5.2	5.1	5.1	0.050	0.050	
Chloroethane	0.020	0.098-5.85	ND	ND		ND	ND	ND	ND	ND	
p-Cymene	0.015		ND	ND		ND	ND	ND	ND	ND	
1,2-Dibromo-3-Chloropropane	0.030		ND	ND		ND	ND	ND	ND	ND	
Dibromofluoromethane	80-120		0.064	0.058		5.7	5.5	5.5	0.055	0.055	
1,1-Dichloroethane	0.015	0.008-0.474	ND	ND		ND	ND	ND	ND	ND	
cis-1,2-Dichloroethylene	0.015		ND	ND		ND	ND	ND	ND	ND	
Ethylbenzene	0.015	0.291-10.0	ND	ND		ND	ND	ND	ND	ND	
Dichlorodifluoromethane	0.010		ND	ND		ND	ND	ND	ND	ND	
Hexachlorobutadiene	0.025		ND	ND		ND	ND	ND	ND	ND	
Isopropyl Benzene	0.015		ND	ND		ND	ND	ND	ND	ND	
Methylene chloride	0.035	0.006-0.332	0.013	0.020	U	1.3	1.1	1.0	0.014	0.014	
Naphthalene	0.360	0.688-10.0	ND	ND		ND	ND	ND	ND	ND	
n-Propyl Benzene	0.015		ND	ND		ND	ND	ND	ND	ND	
Tetrachloroethylene	0.015	0.073-4.38	ND	ND		ND	ND	ND	ND	ND	
1,1,1-Trichloroethane	0.015	0.040-2.40	ND	ND		ND	ND	ND	ND	ND	
1,2,3-Trichlorobenzene	0.020		ND	ND		ND	ND	ND	ND	ND	
1,2,4-Trichlorobenzene	0.025	0.180-10.0	ND	ND		ND	ND	ND	ND	ND	
Trichloroethylene	0.015	0.033-1.99	ND	ND		ND	ND	ND	ND	ND	
1,2,4-Trimethyl Benzene	0.015		ND	ND		ND	ND	ND	ND	ND	
1,3,5-Trimethyl Benzene	0.015		ND	ND		ND	ND	ND	ND	ND	
Vinyl chloride	0.010	0.006-0.360	ND	ND		ND	ND	ND	ND	ND	
M-Xylene	0.015	0.063-3.79	ND	ND		ND	ND	ND	ND	ND	
O-Xylene	0.015	0.063-3.79	ND	ND		ND	ND	ND	ND	ND	

TABLE 1-3  
 AIR FORCE PLANT 59  
 SOIL ANALYTICAL DATA SUMMARY  
 FOR VOLATILE ORGANIC COMPOUNDS (SW8260)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)		Field Blanks (ug/l)			Method Blank (mg/kg)	
			Field ID 59SW12SO9 Lab ID 658121	Field ID 59SW12SO4 Lab ID 658115	Field ID Lab ID	Trip Field ID TB1111694 Lab ID 658102	Equipment Field ID EB1111694 Lab ID 658097	Ambient Field ID AB1111494 Lab ID 657203	Lab ID 659406
Bromofluorobenzene	74-121		0.060	0.063	4.6	4.4	4.6	0.050	
Bromomethane	0.010		ND	ND	ND	ND	ND	ND	
n-Butyl Benzene	0.015		ND	ND	ND	ND	ND	ND	
sec-Butyl Benzene	0.015		ND	ND	ND	ND	ND	ND	
Toluene	0.015	0.079-4.74	ND	ND	ND	ND	ND	ND	
Toluene-D8	81-117		0.062	0.066	5.2	5.1	5.1	0.049	
Chloroethane	0.020	0.098-5.85	ND	ND	ND	ND	ND	ND	
p-Cymene	0.015		ND	ND	ND	ND	ND	ND	
1,2-Dibromo-3-Chloropropane	0.030		ND	ND	ND	ND	ND	ND	
Dibromofluoromethane	80-120		0.062	0.064	5.7	5.5	5.5	0.050	
1,1-Dichloroethane	0.015	0.008-0.474	ND	ND	ND	ND	ND	ND	
cis-1,2-Dichloroethylene	0.015		ND	ND	ND	ND	ND	ND	
Ethylbenzene	0.015	0.291-10.0	ND	ND	ND	ND	ND	ND	
Dichlorodifluoromethane	0.010		ND	ND	ND	ND	ND	ND	
Hexachlorobutadiene	0.025		ND	ND	ND	ND	ND	ND	
Isopropyl Benzene	0.015		ND	ND	ND	ND	ND	ND	
Methylene chloride	0.035	0.006-0.332	0.024	0.011	1.3	1.1	1.0	0.013	
Naphthalene	0.360	0.688-10.0	ND	ND	ND	ND	ND	0.0026	
n-Propyl Benzene	0.015		ND	ND	ND	ND	ND	ND	
Tetrachloroethylene	0.015	0.073-4.38	ND	ND	ND	ND	ND	ND	
1,1,1-Trichloroethane	0.015	0.040-2.40	ND	ND	ND	ND	ND	ND	
1,2,3-Trichlorobenzene	0.020		ND	ND	ND	ND	ND	ND	
1,2,4-Trichlorobenzene	0.025	0.180-10.0	ND	ND	ND	ND	ND	0.0019	
Trichloroethylene	0.015	0.033-1.99	ND	0.0021	ND	ND	ND	0.0016	
1,2,4-Trimethyl Benzene	0.015		ND	ND	ND	ND	ND	ND	
1,3,5-Trimethyl Benzene	0.015		ND	ND	ND	ND	ND	ND	
Vinyl chloride	0.010	0.006-0.360	ND	ND	ND	ND	ND	ND	
m-Xylene	0.015	0.063-3.79	ND	ND	ND	ND	ND	ND	
O-Xylene	0.015	0.063-3.79	ND	ND	ND	ND	ND	0.0013	

TABLE 1-3  
 AIR FORCE PLANT 59  
 SOIL ANALYTICAL DATA SUMMARY  
 FOR VOLATILE ORGANIC COMPOUNDS (SW8260)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)		Field Blanks (ug/l)			Method Blank (mg/kg)
			Field ID 59SW13SO1 Lab ID 657191	Field ID Lab ID	Trip Field ID TB1111494 Lab ID 657204	Equipment Field ID EB1111494 Lab ID 657198	Ambient Field ID AB1111494 Lab ID 657203	
Bromofluorobenzene	74-121		0.056		4.6	4.6	4.6	0.052
Bromomethane	0.010		ND		ND	ND	ND	ND
n-Butyl Benzene	0.015		ND		ND	ND	ND	ND
sec-Butyl Benzene	0.015		ND		ND	ND	ND	ND
Toluene	0.015	0.079-4.74	ND		ND	ND	ND	ND
Toluene-D8	81-117		0.057		5.0	5.2	5.1	0.050
Chloroethane	0.020	0.098-5.85	ND		ND	ND	ND	ND
p-Cymene	0.015		ND		ND	ND	ND	ND
1,2-Dibromo-3-Chloropropane	0.030		ND		ND	ND	ND	ND
Dibromofluoromethane	80-120		0.062		5.6	5.5	5.5	0.055
1,1-Dichloroethane	0.015	0.008-0.474	ND		ND	ND	ND	ND
cis-1,2-Dichloroethylene	0.015		ND		ND	ND	ND	ND
Ethylbenzene	0.015	0.291-10.0	ND		ND	ND	ND	ND
Dichlorodifluoromethane	0.010		ND		ND	ND	ND	ND
Hexachlorobutadiene	0.025		ND		ND	ND	ND	ND
Isopropyl Benzene	0.015		ND		ND	ND	ND	ND
Methylene chloride	0.035	0.006-0.332	0.012	U	1.1	0.97	1.0	0.014
Naphthalene	0.360	0.688-10.0	ND		ND	ND	ND	ND
n-Propyl Benzene	0.015		ND		ND	ND	ND	ND
Tetrachloroethylene	0.015	0.073-4.38	ND		ND	ND	ND	ND
1,1,1-Trichloroethane	0.015	0.040-2.40	ND		ND	ND	ND	ND
1,2,3-Trichlorobenzene	0.020		ND		ND	ND	ND	ND
1,2,4-Trichlorobenzene	0.025	0.180-10.0	ND		ND	ND	ND	ND
Trichloroethylene	0.015	0.033-1.99	ND		ND	ND	ND	ND
1,2,4-Trimethyl Benzene	0.015		ND		ND	ND	ND	ND
1,3,5-Trimethyl Benzene	0.015		ND		ND	ND	ND	ND
Vinyl chloride	0.010	0.006-0.360	ND		ND	ND	ND	ND
M-Xylene	0.015	0.063-3.79	ND		ND	ND	ND	ND
O-Xylene	0.015	0.063-3.79	ND		ND	ND	ND	ND

TABLE 1-3  
 AIR FORCE PLANT 59  
 SOIL ANALYTICAL DATA SUMMARY  
 FOR VOLATILE ORGANIC COMPOUNDS (SW8260)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)				Field Blanks (ug/l)				Method Blank (mg/kg)
			Field ID 59SW13SO4 Lab ID 657197	Field ID 59SW13SO3 Lab ID 657185	Field ID 59SW13SO2 Lab ID 657179	Field ID Trip TB1111494 Lab ID 657204	Field ID Equipment EB1111494 Lab ID 657198	Field ID Ambient AB1111494 Lab ID 657203			
Bromofluorobenzene	74-121		0.058	0.059	0.061	4.6	4.6	4.6	4.6	0.052	
Bromomethane	0.010		ND	ND	ND	ND	ND	ND	ND	ND	
n-Butyl Benzene	0.015		ND	ND	ND	ND	ND	ND	ND	ND	
sec-Butyl Benzene	0.015		ND	ND	ND	ND	ND	ND	ND	ND	
Toluene	0.015	0.079-4.74	ND	ND	ND	ND	ND	ND	ND	ND	
Toluene-D8	81-117		0.060	0.058	0.060	5.0	5.2	5.1	5.1	0.050	
Chloroethane	0.020	0.098-5.85	ND	ND	ND	ND	ND	ND	ND	ND	
p-Cymene	0.015		ND	ND	ND	ND	ND	ND	ND	ND	
1,2-Dibromo-3-Chloropropane	0.030		ND	ND	ND	ND	ND	ND	ND	ND	
Dibromofluoromethane	80-120		0.063	0.061	0.064	5.6	5.5	5.5	5.5	0.055	
1,1-Dichloroethane	0.015	0.008-0.474	ND	ND	ND	ND	ND	ND	ND	ND	
cis-1,2-Dichloroethylene	0.015		ND	ND	ND	ND	ND	ND	ND	ND	
Ethylbenzene	0.015	0.291-10.0	ND	ND	ND	ND	ND	ND	ND	ND	
Dichlorodifluoromethane	0.010		ND	ND	ND	ND	ND	ND	ND	ND	
Hexachlorobutadiene	0.025		ND	ND	ND	ND	ND	ND	ND	ND	
Isopropyl Benzene	0.015		ND	ND	ND	ND	ND	ND	ND	ND	
Methylene chloride	0.035	0.006-0.332	0.015	0.021	0.012	1.1	0.97	1.0	1.0	0.014	
Naphthalene	0.360	0.688-10.0	ND	ND	ND	ND	ND	ND	ND	ND	
n-Propyl Benzene	0.015		ND	ND	ND	ND	ND	ND	ND	ND	
Tetrachloroethylene	0.015	0.073-4.38	ND	ND	ND	ND	ND	ND	ND	ND	
1,1,1-Trichloroethane	0.015	0.040-2.40	ND	ND	ND	ND	ND	ND	ND	ND	
1,2,3-Trichlorobenzene	0.020		ND	ND	ND	ND	ND	ND	ND	ND	
1,2,4-Trichlorobenzene	0.025	0.180-10.0	ND	ND	ND	ND	ND	ND	ND	ND	
Trichloroethylene	0.015	0.033-1.99	ND	ND	ND	ND	ND	ND	ND	ND	
1,2,4-Trimethyl Benzene	0.015		ND	ND	ND	ND	ND	ND	ND	ND	
1,3,5-Trimethyl Benzene	0.015		ND	ND	ND	ND	ND	ND	ND	ND	
Vinyl chloride	0.010	0.006-0.360	ND	ND	ND	ND	ND	ND	ND	ND	
M-Xylene	0.015	0.063-3.79	ND	ND	ND	ND	ND	ND	ND	ND	
O-Xylene	0.015	0.063-3.79	ND	ND	ND	ND	ND	ND	ND	ND	

TABLE 1-3  
 AIR FORCE PLANT 59  
 SOIL ANALYTICAL DATA SUMMARY  
 FOR VOLATILE ORGANIC COMPOUNDS (SW8260)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)		Field Blanks (ug/l)			Method Blank (mg/kg)
			Field ID 59DP19S04 Lab ID 624929	Field ID 59DP19S02 Lab ID 624928	Field ID 59DP18S04 Lab ID 624927	Trip Field ID 59TB10712 Lab ID 624900	Equipment Field ID 59EB10712 Lab ID 624915	
Bromofluorobenzene	74-121		0.050	0.050	0.049	4.4	J	0.045
Bromomethane	0.010		ND	ND	ND	ND	ND	ND
n-Butyl Benzene	0.015		ND	ND	ND	ND	ND	ND
sec-Butyl Benzene	0.015		ND	ND	ND	ND	ND	ND
Toluene	0.015	0.079-4.74	ND	ND	ND	ND	ND	ND
Toluene-D8	81-117		0.054	0.053	0.051	4.8	J	0.049
Chloroethane	0.020	0.098-5.85	ND	ND	ND	ND	ND	ND
p-Cymene	0.015		ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-Chloropropane	0.030		ND	ND	ND	ND	ND	ND
1,2-Dibromomethane	80-120		0.065	0.065	0.061	5.2	J	0.055
1,1-Dichloroethane	0.015	0.008-0.474	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethylene	0.015		ND	ND	ND	ND	ND	ND
Ethylbenzene	0.015	0.291-10.0	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	0.010		ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	0.025		ND	ND	ND	ND	ND	ND
Isopropyl Benzene	0.015		ND	ND	ND	ND	ND	ND
Methylene chloride	0.035	0.006-0.332	0.011	0.014	0.015	2.8	U	0.010
Naphthalene	0.360	0.688-10.0	ND	ND	ND	ND	1.6	ND
n-Propyl Benzene	0.015		ND	ND	ND	ND	ND	ND
Tetrachloroethylene	0.015	0.073-4.38	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	0.015	0.040-2.40	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	0.020		ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	0.025	0.180-10.0	ND	ND	ND	ND	ND	ND
Trichloroethylene	0.015	0.033-1.99	ND	ND	ND	ND	ND	ND
1,2,4-Trimethyl Benzene	0.015		ND	ND	ND	ND	ND	ND
1,3,5-Trimethyl Benzene	0.015		ND	ND	ND	ND	ND	ND
Vinyl chloride	0.010	0.006-0.360	ND	ND	ND	ND	ND	ND
m-Xylene	0.015	0.063-3.79	ND	ND	ND	ND	ND	ND
o-Xylene	0.015	0.063-3.79	ND	ND	ND	ND	ND	ND



TABLE 1-3  
 AIR FORCE PLANT 59  
 SOIL ANALYTICAL DATA SUMMARY  
 FOR VOLATILE ORGANIC COMPOUNDS (SW8260)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)		Field Blanks (ug/l)				Method Blank (mg/kg)
			Field ID 59DP23S01 Lab ID 625883	Field ID 59DP17S02 Lab ID 625882	Field ID Lab ID	Trip Field ID TB1071494 Lab ID 625872	Equipment Field ID 59EB10713 Lab ID 625874	Ambient Field ID Lab ID	
Bromofluorobenzene (2)	74-121		0.055 J	0.060		4.9 J	4.7 J		Lab ID 628620
Bromomethane	0.010		ND	ND		ND	ND		0.046
n-Butyl Benzene	0.015		ND	ND		ND	ND		ND
sec-Butyl Benzene	0.015		ND	ND		ND	ND		ND
Toluene	0.015	0.079-4.74	ND	ND		ND	ND		ND
Toluene-D8 (2)	81-117		0.060 J	0.064		5.2 J	4.9 J		0.050
Chloroethane	0.020	0.098-5.85	ND	ND		ND	ND		ND
p-Cymene	0.015		ND	ND		ND	ND		ND
1,2-Dibromo-3-Chloropropane	0.030		ND	0.0012 U		ND	ND		0.0019
Dibromofluoromethane (2)	80-120		0.065 J	0.066		5.8 J	5.6 J		0.053
1,1-Dichloroethane	0.015	0.008-0.474	ND	ND		ND	ND		ND
cis-1,2-Dichloroethylene	0.015		ND	ND		ND	ND		ND
Ethylbenzene	0.015	0.291-10.0	ND	ND		ND	ND		ND
Dichlorodifluoromethane	0.010		ND	ND		ND	ND		ND
Hexachlorobutadiene	0.025		ND	0.0012 U		ND	ND		0.0015
Isopropyl Benzene	0.015		ND	ND		ND	ND		ND
Methylene chloride	0.035	0.006-0.332	0.025 U	0.040 U		1.8 U	0.51 U		0.0064
Naphthalene	0.360	0.688-10.0	0.0021 U	0.0022 U		ND	ND		0.0033
n-Propyl Benzene	0.015		ND	ND		ND	ND		ND
Tetrachloroethylene	0.015	0.073-4.38	ND	ND		ND	ND		ND
1,1,1-Trichloroethane	0.015	0.040-2.40	ND	ND		ND	ND		ND
1,2,3-Trichlorobenzene	0.020		0.0018 U	0.0019 U		ND	ND		0.0028
1,2,4-Trichlorobenzene	0.025	0.180-10.0	0.0015 U	0.0018 U		ND	ND		0.0025
Trichloroethylene	0.015	0.033-1.99	ND	ND		ND	ND		ND
1,2,4-Trimethyl Benzene	0.015		ND	ND		ND	ND		ND
1,3,5-Trimethyl Benzene	0.015		ND	ND		ND	ND		ND
Vinyl chloride	0.010	0.006-0.360	ND	ND		ND	ND		ND
M-Xylene	0.015	0.063-3.79	ND	ND		ND	ND		ND
O-Xylene	0.015	0.063-3.79	ND	ND		ND	ND		ND

TABLE 1-3  
 AIR FORCE PLANT 59  
 SOIL ANALYTICAL DATA SUMMARY  
 FOR VOLATILE ORGANIC COMPOUNDS (SW8260)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)				Field Blanks (ug/l)				Method Blank (mg/kg)		
			Field ID		Field ID		Trip		Equipment			Ambient	
			59DP26S02 Lab ID 625885	59DP26S01 Lab ID 625884	59DP24S02 Lab ID 625881	59DP24S02 Lab ID 625881	TB1071494 Lab ID 625872	4.9	4.9	59EB10713 Lab ID 625874		4.7	Lab ID 628620
Bromofluorobenzene (2)	74-121		0.060	0.049	0.058	J	ND	ND	J	ND	ND	0.046	
Bromomethane	0.010		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
n-Butyl Benzene	0.015		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
sec-Butyl Benzene	0.015		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Toluene	0.015	0.079-4.74	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Toluene-D8 (2)	81-117		0.064	0.054	0.064	J	0.064	J	J	5.2	J	0.050	
Chloroethane	0.020	0.098-5.85	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
p-Cymene	0.015		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2-Dibromo-3-Chloropropane	0.030		ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0019	
Dibromofluoromethane (2)	80-120		0.070	0.060	0.071	J	0.071	J	J	5.8	J	0.053	
1,1-Dichloroethane	0.015	0.008-0.474	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
cis-1,2-Dichloroethylene	0.015		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ethylbenzene	0.015	0.291-10.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Dichlorodifluoromethane	0.010		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Hexachlorobutadiene	0.025		ND	ND	0.0018	U	0.0018	U	ND	ND	ND	0.0015	
Isopropyl Benzene	0.015		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Methylene chloride	0.035	0.006-0.332	0.011	0.014	0.028	U	0.028	U	1.8	ND	U	0.0064	
Naphthalene	0.360	0.688-10.0	ND	ND	0.0034	U	0.0034	U	ND	ND	ND	0.0033	
n-Propyl Benzene	0.015		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Tetrachloroethylene	0.015	0.073-4.38	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1,1-Trichloroethane	0.015	0.040-2.40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2,3-Trichlorobenzene	0.020		ND	ND	0.0031	U	0.0031	U	ND	ND	ND	0.0028	
1,2,4-Trichlorobenzene	0.025	0.180-10.0	ND	ND	0.0024	U	0.0024	U	ND	ND	ND	0.0025	
Trichloroethylene	0.015	0.033-1.99	0.0034	0.0053	ND	J	ND	ND	ND	ND	ND	ND	
1,2,4-Trimethyl Benzene	0.015		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,3,5-Trimethyl Benzene	0.015		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Vinyl chloride	0.010	0.006-0.360	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
M-Xylene	0.015	0.063-3.79	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
O-Xylene	0.015	0.063-3.79	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	

TABLE 1-3  
 AIR FORCE PLANT 59  
 SOIL ANALYTICAL DATA SUMMARY  
 FOR VOLATILE ORGANIC COMPOUNDS (SW8260)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)		Field Blanks (ug/l)			Method Blank (mg/kg)	
			Field ID 59DP28S09 Lab ID 626570	Field ID 59DP28S03 Lab ID 626569	Field ID Lab ID	Trip Field ID TB1071694 Lab ID 626575	Equipment Field ID 59EB10716 Lab ID 626574		Ambient Field ID Lab ID
Bromofluorobenzene (2)	74-121		0.054	0.062	4.5	J	4.4	J	Lab ID 628620
Bromomethane	0.010		ND	ND	ND		ND		0.046
n-Butyl Benzene	0.015		ND	ND	ND		ND		ND
sec-Butyl Benzene	0.015		ND	ND	ND		ND		ND
Toluene	0.015	0.079-4.74	ND	ND	ND		ND		ND
Toluene-D8 (2)	81-117		0.057	0.063	5.0	J	4.8	J	0.050
Chloroethane	0.020	0.098-5.85	ND	ND	ND		ND		ND
p-Cymene	0.015		ND	ND	ND		ND		ND
1,2-Dibromo-3-Chloropropane	0.030		ND	ND	ND		ND		0.0019
Dibromofluoromethane (2)	80-120		0.063	0.071	5.6	J	5.5	J	0.053
1,1-Dichloroethane	0.015	0.008-0.474	ND	ND	ND		ND		ND
cis-1,2-Dichloroethylene	0.015		ND	ND	ND		ND		ND
Ethylbenzene	0.015	0.291-10.0	ND	ND	ND		ND		ND
Dichlorodifluoromethane	0.010		ND	ND	ND		ND		ND
Hexachlorobutadiene	0.025		ND	ND	ND		ND		ND
Isopropyl Benzene	0.015		ND	ND	ND		ND		0.0015
Methylene chloride	0.035	0.006-0.332	0.089	0.022	1.6	U	0.67	U	ND
Naphthalene	0.360	0.688-10.0	ND	ND	ND		ND		0.0064
n-Propyl Benzene	0.015		ND	ND	ND		ND		0.0033
Tetrachloroethylene	0.015	0.073-4.38	ND	ND	ND		ND		ND
1,1,1-Trichloroethane	0.015	0.040-2.40	ND	ND	ND		ND		ND
1,2,3-Trichlorobenzene	0.020		ND	ND	ND		ND		ND
1,2,4-Trichlorobenzene	0.025	0.180-10.0	ND	ND	ND		ND		0.0028
Trichloroethylene	0.015	0.033-1.99	ND	ND	ND		ND		0.0025
1,2,4-Trimethyl Benzene	0.015		ND	ND	ND		ND		ND
1,3,5-Trimethyl Benzene	0.015		ND	ND	ND		ND		ND
Vinyl chloride	0.010	0.006-0.360	ND	ND	ND		ND		ND
M-Xylene	0.015	0.063-3.79	ND	ND	ND		ND		ND
O-Xylene	0.015	0.063-3.79	ND	ND	ND		ND		ND

TABLE 1-3  
 AIR FORCE PLANT 59  
 SOIL ANALYTICAL DATA SUMMARY  
 FOR VOLATILE ORGANIC COMPOUNDS (SW8260)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)				Field Blanks (ug/l)			Method Blank (mg/kg)
			Field ID 59DP36S03 Lab ID 626573	Field ID 59DP32S01 Lab ID 626572	Field ID 59DP29S03 Lab ID 626571	Trip Field ID TB1071694 Lab ID 626575	Equipment Field ID 59EB10716 Lab ID 626574	Ambient Field ID Lab ID		
Bromofluorobenzene (2)	74-121		0.059	0.054	0.050	4.5	J	4.4	J	Lab ID 628620
Bromomethane	0.010		ND	ND	ND	ND	ND	ND	ND	0.046
n-Butyl Benzene	0.015		ND	ND	ND	ND	ND	ND	ND	ND
sec-Butyl Benzene	0.015		ND	ND	ND	ND	ND	ND	ND	ND
Toluene	0.015	0.079-4.74	ND	ND	ND	ND	ND	ND	ND	ND
Toluene-D8 (2)	81-117		0.060	0.056	0.054	5.0	J	4.8	J	0.050
Chloroethane	0.020	0.098-5.85	ND	ND	ND	ND	ND	ND	ND	ND
p-Cymene	0.015		ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-Chloropropane	0.030		ND	ND	ND	ND	ND	ND	ND	0.0019
Dibromofluoromethane (2)	80-120		0.069	0.064	0.060	5.6	J	5.5	J	0.053
1,1-Dichloroethane	0.015	0.008-0.474	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethylene	0.015		ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	0.015	0.291-10.0	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	0.010		ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	0.025		ND	ND	ND	ND	ND	ND	ND	0.0015
Isopropyl Benzene	0.015		ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	0.035	0.006-0.332	0.076	0.037	0.065	1.6	U	0.67	U	0.0064
Naphthalene	0.360	0.688-10.0	ND	ND	ND	ND	ND	ND	ND	0.0033
n-Propyl Benzene	0.015		ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene	0.015	0.073-4.38	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	0.015	0.040-2.40	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	0.020		ND	ND	ND	ND	ND	ND	ND	0.0028
1,2,4-Trichlorobenzene	0.025	0.180-10.0	ND	ND	ND	ND	ND	ND	ND	0.0025
Trichloroethylene	0.015	0.033-1.99	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethyl Benzene	0.015		ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethyl Benzene	0.015		ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	0.010	0.006-0.360	ND	ND	ND	ND	ND	ND	ND	ND
M-Xylene	0.015	0.063-3.79	ND	ND	ND	ND	ND	ND	ND	ND
O-Xylene	0.015	0.063-3.79	ND	ND	ND	ND	ND	ND	ND	ND

AIR FORCE PLANT 59  
SOIL ANALYTICAL DATA SUMMARY  
FOR VOLATILE ORGANIC COMPOUNDS (SW8260)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)				Field Blanks (ug/l)				Method Blank (mg/kg)
			Field ID 59DP18S02 Lab ID 624926	Field ID 59DP02S02 Lab ID 624923	Field ID 59DP21S03 Lab ID 624932	Field ID 59TB10712 Lab ID 624900	Trip	Equipment Field ID 59EB10712 Lab ID 624915	Ambient Field ID Lab ID		
Bromofluorobenzene (2)	74-121		0.053	0.054	0.052	4.4	J	4.7	J	Lab ID 624975	
Bromonethane	0.010		ND	ND	ND	ND		ND		0.045	
n-Butyl Benzene	0.015		ND	ND	ND	ND		ND		ND	
sec-Butyl Benzene	0.015		ND	ND	ND	ND		ND		ND	
Toluene	0.015	0.079-4.74	ND	ND	ND	ND		ND		ND	
Toluene-D8 (2)	81-117		0.058	0.059	0.061	4.8	J	4.8	J	0.049	
Chloroethane	0.020	0.098-5.85	ND	ND	ND	ND		ND		ND	
p-Cymene	0.015		ND	ND	ND	ND		ND		ND	
1,2-Dibromo-3-Chloropropane	0.030		ND	ND	ND	ND		ND		ND	
1,2-Dibromo-3-Chloropropane (2)	80-120		0.068	0.069	0.069	5.2	J	5.6	J	0.055	
Dibromofluoromethane	0.015	0.008-0.474	ND	ND	ND	ND		ND		ND	
1,1-Dichloroethane	0.015		ND	ND	ND	ND		ND		ND	
cis-1,2-Dichloroethylene	0.015		ND	ND	ND	ND		ND		ND	
Ethylbenzene	0.015	0.291-10.0	ND	ND	ND	ND		ND		ND	
Dichlorodifluoromethane	0.010		ND	ND	ND	ND		ND		ND	
Hexachlorobutadiene	0.025		ND	ND	ND	ND		ND		ND	
Isopropyl Benzene	0.015		ND	ND	ND	ND		ND		ND	
Methylene chloride	0.035	0.006-0.332	0.0094	0.012	0.025	2.8	U	1.6	U	0.010	
Napthalene	0.360	0.688-10.0	ND	ND	ND	ND		ND		ND	
n-Propyl Benzene	0.015		ND	ND	ND	ND		ND		ND	
Tetrachloroethylene	0.015	0.073-4.38	ND	ND	ND	ND		ND		ND	
1,1,1-Trichloroethane	0.015	0.040-2.40	ND	ND	ND	ND		ND		ND	
1,2,3-Trichlorobenzene	0.020		ND	ND	ND	ND		ND		ND	
1,2,4-Trichlorobenzene	0.025	0.180-10.0	ND	ND	ND	ND		ND		ND	
Trichloroethylene	0.015	0.033-1.99	ND	ND	ND	ND		ND		ND	
1,2,4-Trimethyl Benzene	0.015		ND	ND	ND	ND		ND		ND	
1,3,5-Trimethyl Benzene	0.015		ND	ND	ND	ND		ND		ND	
Vinyl chloride	0.010	0.006-0.360	ND	ND	ND	ND		ND		ND	
m-Xylene	0.015	0.063-3.79	ND	ND	ND	ND		ND		ND	
O-Xylene	0.015	0.063-3.79	ND	ND	ND	ND		ND		ND	

(1) Action Levels are based on NYSDEC guidance for the Determination of Soil Cleanup Objectives and Cleanup Levels, January 1994. Levels are based on the partition theory model for protection of water quality. The concentration ranges are based on maximum and minimum calculated action levels. The maximum is limited to 10 ppm. Total VOCs.

(2) Surrogate - Control limits are listed in PQL column.  
Qualifiers: U = Blank Contamination  
J = Estimated; UJ = Estimated for Non-detect

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TABLE 1-4  
AIR FORCE PLANT 59  
SOIL DATA SUMMARY FOR SVOCs (SW8270)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)	Method Blank
			Field ID 59BH01SO2D Lab ID 648878 (3)	Field ID 59BH01SO1 Lab ID 648857	Field ID 59BH01SO2 Lab ID 648878	Equipment Field ID EB1101894 Lab ID 648826	(mg/kg) Lab ID 651470
Acenaphthene	0.370	4.87-50	0.17 J	ND	0.15 J	ND	ND
Acenaphthylene	0.340	2.18-50.0	ND	ND	ND	ND	ND
Anthracene	0.420	37.0-50.0	0.59 J	ND	0.59	ND	ND
bis(2-ethylhexyl)phthalate	0.580	23.0-50.0	ND	ND	ND	ND	ND
Benzo(a)anthracene	0.400	0.146-8.72	3.3	0.091 J	2.7	ND	ND
Benzo(a)pyrene	0.290	0.582-34.8	2.0	ND	1.6	ND	ND
Benzo(b)fluoranthene	0.320	0.058-3.48	3.8	ND	2.9	ND	ND
Benzo(g,h,i)perylene	0.370	50.0	0.18 J	ND	ND	ND	ND
Chrysene	0.610	0.021-1.26	3.2	0.066 J	2.6	ND	ND
Dibenz(a,h)anthracene	0.410	50.0	ND	ND	ND	ND	ND
Dibenzofuran	0.350	0.325-19.4	ND	ND	0.043 J	ND	ND
Di-n-butylphthalate	0.910	0.428-25.6	ND	ND	ND	ND	ND
2,4,-Dinitrotoluene	0.400		ND	ND	ND	ND	ND
Fluorene	0.330	19.3-50.0	0.14 J	ND	0.11 J	ND	ND
Fluoranthene	0.290	50.0	5.3	0.11 J	6.1 J	ND	ND
Indeno(1,2,3,-cd)pyrene	0.630	0.169-10.1	ND	ND	ND	ND	ND
2-Methylnaphthalene	0.400	1.92-114.86	ND	ND	ND	ND	ND
Naphthalene	0.360	0.688-10.0	ND	ND	ND	ND	ND
Nitrobenzene-D5 (2)	37-112		1.3	1.1	1.2	78	1.1
2,4,6-Tribromophenol (2)	25-114		2.8	3.1	2.9	150	2.0
2-Fluorophenol (2)	31-118		3.8	3.5	3.3	100	2.4
Phenanthrene	0.320		3.1	ND	2.7	ND	ND
Phenol-D5 (2)	24-113		3.4	3.4	3.1	73	2.3
2-Fluorobiphenyl (2)	48-116		1.5	1.3	1.5	73	1.0
Terphenyl-D14 (2)	50-132		1.7	1.2	1.2	69	1.1
Pyrene	0.320	35.2-50.0	5.7	0.075 J	4.2	ND	ND

TABLE 1-4  
AIR FORCE PLANT 59  
SOIL DATA SUMMARY FOR SVOCs (SW8270)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)	Method Blank
			Field ID 59BH02SO1 Lab ID 648884	Field ID 59BH02SO2 Lab ID 648890	Field ID 59BH02SO3 Lab ID 648899	Equipment Field ID EB1101894 Lab ID 648826	(mg/kg) Lab ID 651470
Acenaphthene	0.370	4.87-50	ND	ND	ND	ND	ND
Acenaphthylene	0.340	2.18-50.0	ND	ND	ND	ND	ND
Anthracene	0.420	37.0-50.0	ND	ND	ND	ND	ND
bis(2-ethylhexyl)phthalate	0.580	23.0-50.0	ND	ND	ND	ND	ND
Benzo(a)anthracene	0.400	0.146-8.72	ND	ND	ND	ND	ND
Benzo(a)pyrene	0.290	0.582-34.8	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	0.320	0.058-3.48	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	0.370	50.0	ND	ND	ND	ND	ND
Chrysene	0.610	0.021-1.26	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	0.410	50.0	ND	ND	ND	ND	ND
Dibenzofuran	0.350	0.325-19.4	ND	ND	ND	ND	ND
Di-n-butylphthalate	0.910	0.428-25.6	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	0.400		ND	ND	ND	ND	ND
Fluorene	0.330	19.3-50.0	ND	ND	ND	ND	ND
Fluoranthene	0.290	50.0	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.630	0.169-10.1	ND	ND	ND	ND	ND
2-Methylnaphthalene	0.400	1.92-114.86	ND	ND	ND	ND	ND
Naphthalene	0.360	0.688-10.0	ND	ND	ND	ND	ND
Nitrobenzene-D5	(2) 37-112		1.1	1.4	1.3	78	1.1
2,4,6-Tribromophenol	(2) 25-114		3.0	2.7	3.6	150	2.0
2-Fluorophenol	(2) 31-118		3.1	2.9	3.6	100	2.4
Phenanthrene	0.320		ND	ND	ND	ND	ND
Phenol-D5	(2) 24-113		3.0	2.9	3.5	73	2.3
2-Fluorobiphenyl	(2) 48-116		1.3	1.4	1.6	73	1.0
Terphenyl-D14	(2) 50-132		1.2	1.4	1.4	69	1.1
Pyrene	0.320	35.2-50.0	ND	ND	ND	ND	ND



TABLE 1-4  
AIR FORCE PLANT 59  
SOIL DATA SUMMARY FOR SVOCs (SW8270)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)	Method Blank
			Field ID 59BH03SO1 Lab ID 648905	Field ID 59BH03SO2 Lab ID 648911	Field ID Lab ID	Equipment Field ID EB1101894 Lab ID 648826	(mg/kg) Lab ID 651470
Acenaphthene	0.370	4.87-50	ND	ND		ND	ND
Acenaphthylene	0.340	2.18-50.0	ND	ND		ND	ND
Anthracene	0.420	37.0-50.0	ND	ND		ND	ND
bis(2-ethylhexyl)phthalate	0.580	23.0-50.0	ND	ND		ND	ND
Benzo(a)anthracene	0.400	0.146-8.72	ND	ND		ND	ND
Benzo(a)pyrene	0.290	0.582-34.8	ND	ND		ND	ND
Benzo(b)fluoranthene	0.320	0.058-3.48	ND	ND		ND	ND
Benzo(g,h,i)perylene	0.370	50.0	ND	ND		ND	ND
Chrysene	0.610	0.021-1.26	ND	ND		ND	ND
Dibenz(a,h)anthracene	0.410	50.0	ND	ND		ND	ND
Dibenzofuran	0.350	0.325-19.4	ND	ND		ND	ND
Di-n-butylphthalate	0.910	0.428-25.6	ND	ND		ND	ND
2,4-Dinitrotoluene	0.400		ND	ND		ND	ND
Fluorene	0.330	19.3-50.0	ND	ND		ND	ND
Fluoranthene	0.290	50.0	ND	ND		ND	ND
Indeno(1,2,3,-cd)pyrene	0.630	0.169-10.1	ND	ND		ND	ND
2-Methylnaphthalene	0.400	1.92-114.86	ND	ND		ND	ND
Naphthalene	0.360	0.688-10.0	ND	ND		ND	ND
Nitrobenzene-D5	(2) 37-112		1.1	1.1		78	1.1
2,4,6-Tribromophenol	(2) 25-114		1.9	3.2		150	2.0
2-Fluorophenol	(2) 31-118		2.4	3.2		100	2.4
Phenanthrene	0.320		ND	ND		ND	ND
Phenol-D5	(2) 24-113		2.4	3.0		73	2.3
2-Fluorobiphenyl	(2) 48-116		1.1	1.4		73	1.0
Terphenyl-D14	(2) 50-132		1.1	1.3		69	1.1
Pyrene	0.320	35.2-50.0	ND	ND		ND	ND

TABLE 1-4  
AIR FORCE PLANT 59  
SOIL DATA SUMMARY FOR SVOCs (SW8270)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)				Field Blanks (ug/l)	Method Blank
			Field ID 59BH03SO3 Lab ID 649270	Field ID 59BH04SO1 Lab ID 649231	Field ID 59BH04SO2 Lab ID 649258	Equipment Field ID EB1101994 Lab ID 649359	(mg/kg) Lab ID 651647	
Acenaphthene	0.370	4.87-50	ND	ND	ND	ND	ND	
Acenaphthylene	0.340	2.18-50.0	ND	ND	ND	ND	ND	
Anthracene	0.420	37.0-50.0	ND	ND	ND	ND	ND	
bis(2-ethylhexyl)phthalate	0.580	23.0-50.0	ND	ND	ND	ND	ND	
Benzo(a)anthracene	0.400	0.146-8.72	ND	ND	ND	ND	ND	
Benzo(a)pyrene	0.290	0.582-34.8	ND	ND	ND	ND	ND	
Benzo(b)fluoranthene	0.320	0.058-3.48	ND	ND	ND	ND	ND	
Benzo(g,h,i)perylene	0.370	50.0	ND	ND	ND	ND	ND	
Chrysene	0.610	0.021-1.26	ND	ND	ND	ND	ND	
Dibenz(a,h)anthracene	0.410	50.0	ND	ND	ND	ND	ND	
Dibenzofuran	0.350	0.325-19.4	ND	ND	ND	ND	ND	
Di-n-butylphthalate	0.910	0.428-25.6	0.079 U	0.088 U	0.084 U	1.0 J	0.22	
2,4,-Dinitrotoluene	0.400		ND	ND	ND	ND	ND	
Fluorene	0.330	19.3-50.0	ND	ND	ND	ND	ND	
Fluoranthene	0.290	50.0	ND	ND	ND	ND	ND	
Indeno(1,2,3,-cd)pyrene	0.630	0.169-10.1	ND	ND	ND	ND	ND	
2-Methylnaphthalene	0.400	1.92-114.86	ND	ND	ND	ND	ND	
Naphthalene	0.360	0.688-10.0	ND	ND	ND	ND	ND	
Nitrobenzene-D5 (2)	37-112		1.5	1.5	1.5	87	1.2	
2,4,6-Tribromophenol (2)	25-114		2.4	2.4	2.4	190	2.3	
2-Fluorophenol (2)	31-118		2.7	2.6	2.7	110	2.1	
Phenanthrene	0.320		ND	ND	ND	ND	ND	
Phenol-D5 (2)	24-113		2.7	2.6	2.7	77	2.1	
2-Fluorobiphenyl (2)	48-116		1.4	1.3	1.4	87	1.1	
Terphenyl-D14 (2)	50-132		1.4	1.4	1.5	80	1.1	
Pyrene	0.320	35.2-50.0	ND	ND	ND	ND	ND	

TABLE 1-4  
AIR FORCE PLANT 59  
SOIL DATA SUMMARY FOR SVOCS (SW8270)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)	Method Blank
			Field ID 59BH04SO3 Lab ID 649315	Field ID 59BH04SO9 Lab ID 649243	Field ID 59BH05SO1 Lab ID 649252	Equipment Field ID EB1101994 Lab ID 649359	(mg/kg) Lab ID 651647
Acenaphthene	0.370	4.87-50	ND	ND	ND	ND	ND
Acenaphthylene	0.340	2.18-50.0	ND	ND	ND	ND	ND
Anthracene	0.420	37.0-50.0	ND	ND	ND	ND	ND
bis(2-ethylhexyl)phthalate	0.580	23.0-50.0	ND	ND	ND	ND	ND
Benzo(a)anthracene	0.400	0.146-8.72	ND	ND	ND	ND	ND
Benzo(a)pyrene	0.290	0.582-34.8	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	0.320	0.058-3.48	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	0.370	50.0	ND	ND	ND	ND	ND
Chrysene	0.610	0.021-1.26	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	0.410	50.0	ND	ND	ND	ND	ND
Dibenzofuran	0.350	0.325-19.4	ND	ND	ND	ND	ND
Di-n-butylphthalate	0.910	0.428-25.6	0.091 U	0.077 U	0.11 U	1.0 J	0.22
2,4,-Dinitrotoluene	0.400		ND	ND	ND	ND	ND
Fluorene	0.330	19.3-50.0	ND	ND	ND	ND	ND
Fluoranthene	0.290	50.0	ND	ND	ND	ND	ND
Indeno(1,2,3,-cd)pyrene	0.630	0.169-10.1	ND	ND	ND	ND	ND
2-Methylnaphthalene	0.400	1.92-114.86	ND	ND	ND	ND	ND
Naphthalene	0.360	0.688-10.0	ND	ND	ND	ND	ND
Nitrobenzene-D5 (2)	37-112		1.6	1.7	1.6	87	1.2
2,4,6-Tribromophenol (2)	25-114		2.9	2.7	2.7	190	2.3
2-Fluorophenol (2)	31-118		2.7	2.9	2.8	110	2.1
Phenanthrene	0.320		ND	ND	ND	ND	ND
Phenol-D5 (2)	24-113		2.7	2.9	2.8	77	2.1
2-Fluorobiphenyl (2)	48-116		1.4	1.5	1.4	87	1.1
Terphenyl-D14 (2)	50-132		1.5	1.6	1.4	80	1.1
Pyrene	0.320	35.2-50.0	ND	ND	ND	ND	ND

TABLE 1-4  
AIR FORCE PLANT 59  
SOIL DATA SUMMARY FOR SVOCs (SW8270)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)	Method Blank
			Field ID 59BH05SO2 Lab ID 649264	Field ID 59BH05SO3 Lab ID 649276	Field ID 59BH06SO2 Lab ID 649237	Equipment Field ID EB1101994 Lab ID 649359	(mg/kg) Lab ID 651647
Acenaphthene	0.370	4.87-50	ND	ND	ND	ND	ND
Acenaphthylene	0.340	2.18-50.0	ND	ND	ND	ND	ND
Anthracene	0.420	37.0-50.0	ND	ND	ND	ND	ND
bis(2-ethylhexyl)phthalate	0.580	23.0-50.0	ND	ND	0.089 J	ND	ND
Benzo(a)anthracene	0.400	0.146-8.72	ND	ND	0.052 J	ND	ND
Benzo(a)pyrene	0.290	0.582-34.8	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	0.320	0.058-3.48	ND	ND	0.098 J	ND	ND
Benzo(g,h,i)perylene	0.370	50.0	ND	ND	ND	ND	ND
Chrysene	0.610	0.021-1.26	ND	ND	0.041 J	ND	ND
Dibenz(a,h)anthracene	0.410	50.0	ND	ND	ND	ND	ND
Dibenzofuran	0.350	0.325-19.4	ND	ND	ND	ND	ND
Di-n-butylphthalate	0.910	0.428-25.6	0.078 U	0.12 U	0.11 U	1.0 J	0.22
2,4,-Dinitrotoluene	0.400		ND	ND	ND	ND	ND
Fluorene	0.330	19.3-50.0	ND	ND	ND	ND	ND
Fluoranthene	0.290	50.0	ND	ND	0.064 J	ND	ND
Indeno(1,2,3,-cd)pyrene	0.630	0.169-10.1	ND	ND	ND	ND	ND
2-Methylnaphthalene	0.400	1.92-114.86	ND	ND	ND	ND	ND
Naphthalene	0.360	0.688-10.0	ND	ND	ND	ND	ND
Nitrobenzene-D5 (2)	37-112		1.5	1.6	1.7	87	1.2
2,4,6-Tribromophenol (2)	25-114		2.7	2.7	2.6	190	2.3
2-Fluorophenol (2)	31-118		2.8	3.0	2.9	110	2.1
Phenanthrene	0.320		ND	ND	ND	ND	ND
Phenol-D5 (2)	24-113		2.8	3.0	3.0	77	2.1
2-Fluorobiphenyl (2)	48-116		1.4	1.5	1.5	87	1.1
Terphenyl-D14 (2)	50-132		1.4	1.6	1.5	80	1.1
Pyrene	0.320	35.2-50.0	ND	ND	0.062 J	ND	ND

TABLE 1-4  
AIR FORCE PLANT 59  
SOIL DATA SUMMARY FOR SVOCs (SW8270)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)	Method Blank
			Field ID 59BH06SO1 Lab ID 649294	Field ID Lab ID	Field ID Lab ID	Equipment Field ID EB1101994 Lab ID 649359	(mg/kg) Lab ID 649972
Acenaphthene	0.370	4.87-50	ND			ND	ND
Acenaphthylene	0.340	2.18-50.0	ND			ND	ND
Anthracene	0.420	37.0-50.0	ND			ND	ND
bis(2-ethylhexyl)phthalate	0.580	23.0-50.0	0.20	J		ND	ND
Benzo(a)anthracene	0.400	0.146-8.72	ND			ND	ND
Benzo(a)pyrene	0.290	0.582-34.8	ND			ND	ND
Benzo(b)fluoranthene	0.320	0.058-3.48	ND			ND	ND
Benzo(g,h,i)perylene	0.370	50.0	ND			ND	ND
Chrysene	0.610	0.021-1.26	ND			ND	ND
Dibenz(a,h)anthracene	0.410	50.0	ND			ND	ND
Dibenzofuran	0.350	0.325-19.4	ND			ND	ND
Di-n-butylphthalate	0.910	0.428-25.6	ND			1.0	J ND
2,4,-Dinitrotoluene	0.400		ND			ND	ND
Fluorene	0.330	19.3-50.0	ND			ND	ND
Fluoranthene	0.290	50.0	ND			ND	ND
Indeno(1,2,3,-cd)pyrene	0.630	0.169-10.1	ND			ND	ND
2-Methylnaphthalene	0.400	1.92-114.86	ND			ND	ND
Naphthalene	0.360	0.688-10.0	ND			ND	ND
Nitrobenzene-D5	(2) 37-112		1.0			87	1.2
2,4,6-Tribromophenol	(2) 25-114		2.7			190	2.4
2-Fluorophenol	(2) 31-118		2.4			110	2.8
Phenanthrene	0.320		ND			ND	ND
Phenol-D5	(2) 24-113		2.2			77	2.8
2-Fluorobiphenyl	(2) 48-116		1.2			87	1.3
Terphenyl-D14	(2) 50-132		1.3			80	1.2
Pyrene	0.320	35.2-50.0	ND			ND	ND

TABLE 1-4  
AIR FORCE PLANT 59  
SOIL DATA SUMMARY FOR SVOCS (SW8270)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)	Method Blank
			Field ID 59BH07SO1 Lab ID 649282	Field ID 59BH07SO2 Lab ID 649288	Field ID Lab ID	Equipment Field ID EB1101994 Lab ID 649359	(mg/kg) Lab ID 651647
Acenaphthene	0.370	4.87-50	ND	ND		ND	ND
Acenaphthylene	0.340	2.18-50.0	ND	ND		ND	ND
Anthracene	0.420	37.0-50.0	0.12 J	0.14 J		ND	ND
bis(2-ethylhexyl)phthalate	0.580	23.0-50.0	ND	ND		ND	ND
Benzo(a)anthracene	0.400	0.146-8.72	0.50	0.50		ND	ND
Benzo(a)pyrene	0.290	0.582-34.8	0.42	0.38		ND	ND
Benzo(b)fluoranthene	0.320	0.058-3.48	0.78	0.62		ND	ND
Benzo(g,h,i)perylene	0.370	50.0	ND	0.15 J		ND	ND
Chrysene	0.610	0.021-1.26	0.50 J	0.45 J		ND	ND
Dibenz(a,h)anthracene	0.410	50.0	ND	ND		ND	ND
Dibenzofuran	0.350	0.325-19.4	ND	ND		ND	ND
Di-n-butylphthalate	0.910	0.428-25.6	0.073 U	0.099 U		1.0 J	0.22
2,4,-Dinitrotoluene	0.400		ND	ND		ND	ND
Fluorene	0.330	19.3-50.0	0.050 J	0.052 J		ND	ND
Fluoranthene	0.290	50.0	0.85	0.94		ND	ND
Indeno(1,2,3,-cd)pyrene	0.630	0.169-10.1	ND	0.16 J		ND	ND
2-Methylnaphthalene	0.400	1.92-114.86	ND	ND		ND	ND
Naphthalene	0.360	0.688-10.0	ND	ND		ND	ND
Nitrobenzene-D5	(2) 37-112		1.3	1.7		87	1.2
2,4,6-Tribromophenol	(2) 25-114		2.4	2.8		190	2.3
2-Fluorophenol	(2) 31-118		2.0	3.1		110	2.1
Phenanthrene	0.320		0.47	0.61		ND	ND
Phenol-D5	(2) 24-113		2.1	3.1		77	2.1
2-Fluorobiphenyl	(2) 48-116		1.2	1.6		87	1.1
Terphenyl-D14	(2) 50-132		1.2	1.5		80	1.1
Pyrene	0.320	35.2-50.0	0.80	0.78		ND	ND

TABLE 1-4  
AIR FORCE PLANT 59  
SOIL DATA SUMMARY FOR SVOCs (SW8270)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)	Method Blank
			Field ID 59BH08SO1 Lab ID 649819	Field ID 59BH08SO2 Lab ID 649830	Field ID 59BH08SO3 Lab ID 649836	Equipment Field ID EB1102094 Lab ID 649800	(mg/kg) Lab ID 651638
Acenaphthene	0.370	4.87-50	ND	ND	ND	ND	ND
Acenaphthylene	0.340	2.18-50.0	ND	ND	ND	ND	ND
Anthracene	0.420	37.0-50.0	ND	ND	ND	ND	ND
bis(2-ethylhexyl)phthalate	0.580	23.0-50.0	ND	ND	0.058 J	ND	ND
Benzo(a)anthracene	0.400	0.146-8.72	ND	ND	0.040 J	ND	ND
Benzo(a)pyrene	0.290	0.582-34.8	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	0.320	0.058-3.48	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	0.370	50.0	ND	ND	ND	ND	ND
Chrysene	0.610	0.021-1.26	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	0.410	50.0	ND	ND	ND	ND	ND
Dibenzofuran	0.350	0.325-19.4	ND	ND	ND	ND	ND
Di-n-butylphthalate	0.910	0.428-25.6	ND	ND	ND	1.0 J	ND
2,4,-Dinitrotoluene	0.400		ND	ND	ND	ND	ND
Fluorene	0.330	19.3-50.0	ND	ND	ND	ND	ND
Fluoranthene	0.290	50.0	ND	ND	0.100 J	ND	ND
Indeno(1,2,3,-cd)pyrene	0.630	0.169-10.1	ND	ND	ND	ND	ND
2-Methylnaphthalene	0.400	1.92-114.86	ND	ND	ND	ND	ND
Naphthalene	0.360	0.688-10.0	ND	ND	ND	ND	ND
Nitrobenzene-D5 (2)	37-112		0.88	1.5	1.4	89	1.4
2,4,6-Tribromophenol (2)	25-114		2.6	4.0	3.2	200	3.5
2-Fluorophenol (2)	31-118		2.3	3.4	3.5	110	3.1
Phenanthrene	0.320		ND	ND	0.051 J	ND	ND
Phenol-D5 (2)	24-113		2.0	3.2	3.5	70	3.0
2-Fluorobiphenyl (2)	48-116		1.1	1.7	1.7	81	1.5
Terphenyl-D14 (2)	50-132		1.1	1.6	1.6	93	1.5
Pyrene	0.320	35.2-50.0	ND	ND	0.064 J	ND	ND

TABLE 1-4  
AIR FORCE PLANT 59  
SOIL DATA SUMMARY FOR SVOCs (SW8270)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)	Method Blank
			Field ID 59BH08SO9 Lab ID 649842	Field ID 59BH09SO9 Lab ID 649890	Field ID 59BH09SO2 Lab ID 649869	Equipment Field ID EB1102094 Lab ID 649800	(mg/kg) Lab ID 651638
Acenaphthene	0.370	4.87-50	ND	ND	ND	ND	ND
Acenaphthylene	0.340	2.18-50.0	ND	ND	ND	ND	ND
Anthracene	0.420	37.0-50.0	ND	ND	ND	ND	ND
bis(2-ethylhexyl)phthalate	0.580	23.0-50.0	ND	ND	ND	ND	ND
Benzo(a)anthracene	0.400	0.146-8.72	0.046 J	ND	ND	ND	ND
Benzo(a)pyrene	0.290	0.582-34.8	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	0.320	0.058-3.48	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	0.370	50.0	ND	ND	ND	ND	ND
Chrysene	0.610	0.021-1.26	0.047 J	ND	ND	ND	ND
Dibenz(a,h)anthracene	0.410	50.0	ND	ND	ND	ND	ND
Dibenzofuran	0.350	0.325-19.4	ND	ND	ND	ND	ND
Di-n-butylphthalate	0.910	0.428-25.6	ND	ND	ND	1.0 J	ND
2,4,-Dinitrotoluene	0.400		ND	ND	ND	ND	ND
Fluorene	0.330	19.3-50.0	ND	ND	ND	ND	ND
Fluoranthene	0.290	50.0	0.078 J	ND	ND	ND	ND
Indeno(1,2,3,-cd)pyrene	0.630	0.169-10.1	ND	ND	ND	ND	ND
2-Methylnaphthalene	0.400	1.92-114.86	ND	ND	ND	ND	ND
Naphthalene	0.360	0.688-10.0	ND	ND	ND	ND	ND
Nitrobenzene-D5	(2) 37-112		1.4	2.4	1.5	89	1.4
2,4,6-Tribromophenol	(2) 25-114		2.5	5.2	2.8	200	3.5
2-Fluorophenol	(2) 31-118		3.2	5.4	3.4	110	3.1
Phenanthrene	0.320		0.041 J	ND	ND	ND	ND
Phenol-D5	(2) 24-113		3.1	5.7	3.4	70	3.0
2-Fluorobiphenyl	(2) 48-116		1.4	2.4	1.5	81	1.5
Terphenyl-D14	(2) 50-132		1.2	2.4	1.5	93	1.5
Pyrene	0.320	35.2-50.0	0.076 J	ND	ND	ND	ND



TABLE 1-4  
AIR FORCE PLANT 59  
SOIL DATA SUMMARY FOR SVOCS (SW8270)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)	Method Blank
			Field ID 59BH09SO1 Lab ID 649848	Field ID Lab ID	Field ID Lab ID	Equipment Field ID EB1102094 Lab ID 649800	(mg/kg) Lab ID 651647
Acenaphthene	0.370	4.87-50	ND			ND	ND
Acenaphthylene	0.340	2.18-50.0	ND			ND	ND
Anthracene	0.420	37.0-50.0	ND			ND	ND
bis(2-ethylhexyl)phthalate	0.580	23.0-50.0	ND			ND	ND
Benzo(a)anthracene	0.400	0.146-8.72	0.20	J		ND	ND
Benzo(a)pyrene	0.290	0.582-34.8	0.14	J		ND	ND
Benzo(b)fluoranthene	0.320	0.058-3.48	0.29	J		ND	ND
Benzo(g,h,i)perylene	0.370	50.0	ND			ND	ND
Chrysene	0.610	0.021-1.26	0.20	J		ND	ND
Dibenz(a,h)anthracene	0.410	50.0	ND			ND	ND
Dibenzofuran	0.350	0.325-19.4	ND			ND	ND
Di-n-butylphthalate	0.910	0.428-25.6	0.086	J		1.0	J 0.22
2,4,-Dinitrotoluene	0.400		ND			ND	ND
Fluorene	0.330	19.3-50.0	ND			ND	ND
Fluoranthene	0.290	50.0	0.30	J		ND	ND
Indeno(1,2,3,-cd)pyrene	0.630	0.169-10.1	ND			ND	ND
2-Methylnaphthalene	0.400	1.92-114.86	ND			ND	ND
Naphthalene	0.360	0.688-10.0	ND			ND	ND
Nitrobenzene-D5	(2) 37-112		1.5			89	1.2
2,4,6-Tribromophenol	(2) 25-114		2.2			200	2.3
2-Fluorophenol	(2) 31-118		2.6			110	2.1
Phenanthrene	0.320		0.074	J		ND	ND
Phenol-D5	(2) 24-113		2.6			70	2.1
2-Fluorobiphenyl	(2) 48-116		1.3			81	1.1
Terphenyl-D14	(2) 50-132		1.3			93	1.1
Pyrene	0.320	35.2-50.0	0.29	J		ND	ND

TABLE 1-4  
AIR FORCE PLANT 59  
SOIL DATA SUMMARY FOR SVOCs (SW8270)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)	Method Blank
			Field ID 59BH09SO3 Lab ID 649875	Field ID 59BH09SO4 Lab ID 649881	Field ID Lab ID	Equipment Field ID EB1102094 Lab ID 649800	(mg/kg) Lab ID 651638
Acenaphthene	0.370	4.87-50	ND	ND		ND	ND
Acenaphthylene	0.340	2.18-50.0	ND	ND		ND	ND
Anthracene	0.420	37.0-50.0	ND	ND		ND	ND
bis(2-ethylhexyl)phthalate	0.580	23.0-50.0	ND	ND		ND	ND
Benzo(a)anthracene	0.400	0.146-8.72	ND	ND		ND	ND
Benzo(a)pyrene	0.290	0.582-34.8	ND	ND		ND	ND
Benzo(b)fluoranthene	0.320	0.058-3.48	ND	ND		ND	ND
Benzo(g,h,i)perylene	0.370	50.0	ND	ND		ND	ND
Chrysene	0.610	0.021-1.26	ND	ND		ND	ND
Dibenz(a,h)anthracene	0.410	50.0	ND	ND		ND	ND
Dibenzofuran	0.350	0.325-19.4	ND	ND		ND	ND
Di-n-butylphthalate	0.910	0.428-25.6	ND	ND		1.0 J	ND
2,4,-Dinitrotoluene	0.400		ND	ND		ND	ND
Fluorene	0.330	19.3-50.0	ND	ND		ND	ND
Fluoranthene	0.290	50.0	ND	ND		ND	ND
Indeno(1,2,3,-cd)pyrene	0.630	0.169-10.1	ND	ND		ND	ND
2-Methylnaphthalene	0.400	1.92-114.86	ND	ND		ND	ND
Naphthalene	0.360	0.688-10.0	ND	ND		ND	ND
Nitrobenzene-D5	(2) 37-112		1.6	1.5		89	1.4
2,4,6-Tribromophenol	(2) 25-114		2.7	2.6		200	3.5
2-Fluorophenol	(2) 31-118		3.5	3.1		110	3.1
Phenanthrene	0.320		ND	ND		ND	ND
Phenol-D5	(2) 24-113		3.6	3.3		70	3.0
2-Fluorobiphenyl	(2) 48-116		1.5	1.4		81	1.5
Terphenyl-D14	(2) 50-132		1.6	1.5		93	1.5
Pyrene	0.320	35.2-50.0	ND	ND		ND	ND

TABLE 1-4  
AIR FORCE PLANT 59  
SOIL DATA SUMMARY FOR SVOCs (SW8270)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)	Method Blank
			Field ID 59BH10SO1 Lab ID 650124	Field ID 59BH10SO2 Lab ID 650130	Field ID 59BH10SO3 Lab ID 650118	Equipment Field ID EB1102194 Lab ID 650095	(mg/kg) Lab ID 651638
Acenaphthene	0.370	4.87-50	ND	0.29 J	ND	ND	ND
Acenaphthylene	0.340	2.18-50.0	ND	ND	ND	ND	ND
Anthracene	0.420	37.0-50.0	ND	0.42 J	ND	ND	ND
bis(2-ethylhexyl)phthalate	0.580	23.0-50.0	ND	ND	0.89 J	ND	ND
Benzo(a)anthracene	0.400	0.146-8.72	ND	1.0	ND	ND	ND
Benzo(a)pyrene	0.290	0.582-34.8	ND	0.97	ND	ND	ND
Benzo(b)fluoranthene	0.320	0.058-3.48	ND	1.3	ND	ND	ND
Benzo(g,h,i)perylene	0.370	50.0	ND	0.49	ND	ND	ND
Chrysene	0.610	0.021-1.26	ND	1.0	ND	ND	ND
Dibenz(a,h)anthracene	0.410	50.0	ND	0.11 J	ND	ND	ND
Dibenzofuran	0.350	0.325-19.4	ND	0.36 J	ND	ND	ND
Di-n-butylphthalate	0.910	0.428-25.6	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	0.400		ND	0.41 J	ND	ND	ND
Fluorene	0.330	19.3-50.0	ND	0.45	ND	ND	ND
Fluoranthene	0.290	50.0	ND	2.7	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.630	0.169-10.1	ND	0.45 J	ND	ND	ND
2-Methylnaphthalene	0.400	1.92-114.86	ND	0.12 J	0.55 J	ND	ND
Naphthalene	0.360	0.688-10.0	ND	0.34 J	1.4 J	ND	ND
Nitrobenzene-D5 (2)	37-112		1.5	1.4	4.4	85	1.4
2,4,6-Tribromophenol (2)	25-114		2.4	2.7	3.6	200	3.5
2-Fluorophenol (2)	31-118		3.0	3.1	2.9	110	3.1
Phenanthrene	0.320		ND	2.9	0.84 J	ND	ND
Phenol-D5 (2)	24-113		3.0	3.0	3.8	69	3.0
2-Fluorobiphenyl (2)	48-116		1.5	1.6	2.0	84	1.5
Terphenyl-D14 (2)	50-132		1.4	1.4	1.9	99	1.5
Pyrene	0.320	35.2-50.0	ND	2.3	ND	ND	ND

TABLE 1-4  
AIR FORCE PLANT 59  
SOIL DATA SUMMARY FOR SVOCs (SW8270)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)	Method Blank
			Field ID 59BH11SO1 Lab ID 650106	Field ID 59BH11SO2 Lab ID 650112	Field ID 59BH11SO3 Lab ID 650100	Equipment Field ID EB1102194 Lab ID 650095	(mg/kg) Lab ID 651638
Acenaphthene	0.370	4.87-50	ND	ND	ND	ND	ND
Acenaphthylene	0.340	2.18-50.0	ND	ND	ND	ND	ND
Anthracene	0.420	37.0-50.0	ND	ND	ND	ND	ND
bis(2-ethylhexyl)phthalate	0.580	23.0-50.0	ND	ND	0.97 U	ND	ND
Benzo(a)anthracene	0.400	0.146-8.72	ND	ND	ND	ND	ND
Benzo(a)pyrene	0.290	0.582-34.8	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	0.320	0.058-3.48	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	0.370	50.0	ND	ND	ND	ND	ND
Chrysene	0.610	0.021-1.26	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	0.410	50.0	ND	ND	ND	ND	ND
Dibenzofuran	0.350	0.325-19.4	ND	ND	ND	ND	ND
Di-n-butylphthalate	0.910	0.428-25.6	0.060 J	ND	ND	ND	ND
2,4,-Dinitrotoluene	0.400		ND	ND	ND	ND	ND
Fluorene	0.330	19.3-50.0	ND	ND	ND	ND	ND
Fluoranthene	0.290	50.0	ND	ND	ND	ND	ND
Indeno(1,2,3,-cd)pyrene	0.630	0.169-10.1	ND	ND	ND	ND	ND
2-Methylnaphthalene	0.400	1.92-114.86	ND	ND	0.60 J	ND	ND
Naphthalene	0.360	0.688-10.0	ND	ND	2.5 J	ND	ND
Nitrobenzene-D5	(2) 37-112		1.7	1.6	4.9	85	1.4
2,4,6-Tribromophenol	(2) 25-114		2.8	2.8	2.6	200	3.5
2-Fluorophenol	(2) 31-118		3.4	3.3	3.9	110	3.1
Phenanthrene	0.320		ND	ND	0.96 J	ND	ND
Phenol-D5	(2) 24-113		3.2	3.2	4.7	69	3.0
2-Fluorobiphenyl	(2) 48-116		1.6	1.6	1.9	84	1.5
Terphenyl-D14	(2) 50-132		1.5	1.6	1.7	99	1.5
Pyrene	0.320	35.2-50.0	ND	ND	ND	ND	ND

TABLE 1-4  
 AIR FORCE PLANT 59  
 SOIL DATA SUMMARY FOR SVOCs (SW8270)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)	Method Blank
			Field ID 59BH12SO1 Lab ID 650486	Field ID Lab ID	Field ID Lab ID	Equipment Field ID EB1102394 Lab ID 650559	(mg/kg) Lab ID 651638
Acenaphthene	0.370	4.87-50	ND			ND	ND
Acenaphthylene	0.340	2.18-50.0	ND			ND	ND
Anthracene	0.420	37.0-50.0	ND			ND	ND
bis(2-ethylhexyl)phthalate	0.580	23.0-50.0	ND			ND	ND
Benzo(a)anthracene	0.400	0.146-8.72	ND			ND	ND
Benzo(a)pyrene	0.290	0.582-34.8	ND			ND	ND
Benzo(b)fluoranthene	0.320	0.058-3.48	ND			ND	ND
Benzo(g,h,i)perylene	0.370	50.0	ND			ND	ND
Chrysene	0.610	0.021-1.26	ND			ND	ND
Dibenz(a,h)anthracene	0.410	50.0	ND			ND	ND
Dibenzofuran	0.350	0.325-19.4	ND			ND	ND
Di-n-butylphthalate	0.910	0.428-25.6	ND			1.0	J
2,4,-Dinitrotoluene	0.400		ND			ND	ND
Fluorene	0.330	19.3-50.0	ND			ND	ND
Fluoranthene	0.290	50.0	ND			ND	ND
Indeno(1,2,3,-cd)pyrene	0.630	0.169-10.1	ND			ND	ND
2-Methylnaphthalene	0.400	1.92-114.86	ND			ND	ND
Naphthalene	0.360	0.688-10.0	0.15	J		ND	ND
Nitrobenzene-D5	(2) 37-112		1.7			85	1.4
2,4,6-Tribromophenol	(2) 25-114		3.3			200	3.5
2-Fluorophenol	(2) 31-118		3.4			110	3.1
Phenanthrene	0.320		ND			ND	ND
Phenol-D5	(2) 24-113		3.3			64	3.0
2-Fluorobiphenyl	(2) 48-116		1.6			84	1.5
Terphenyl-D14	(2) 50-132		1.7			98	1.5
Pyrene	0.320	35.2-50.0	ND			ND	ND

TABLE 1-4  
AIR FORCE PLANT 59  
SOIL DATA SUMMARY FOR SVOCs (SW8270)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)	Method Blank
			Field ID 59BH12SO2 Lab ID 650492	Field ID 59BH12SO3 Lab ID 650498	Field ID 59SW10SO1 Lab ID 650545	Equipment Field ID EB1102394 Lab ID 650559	(mg/kg) Lab ID 651470
Acenaphthene	0.370	4.87-50	ND	ND	0.095 J	ND	ND
Acenaphthylene	0.340	2.18-50.0	ND	ND	0.100 J	ND	ND
Anthracene	0.420	37.0-50.0	ND	ND	0.51 J	ND	ND
bis(2-ethylhexyl)phthalate	0.580	23.0-50.0	ND	ND	0.24 U	ND	ND
Benzo(a)anthracene	0.400	0.146-8.72	ND	ND	5.9	ND	ND
Benzo(a)pyrene	0.290	0.582-34.8	ND	ND	5.2	ND	ND
Benzo(b)fluoranthene	0.320	0.058-3.48	ND	ND	10 J	ND	ND
Benzo(g,h,i)perylene	0.370	50.0	ND	ND	2.1	ND	ND
Chrysene	0.610	0.021-1.26	ND	ND	5.8	ND	ND
Dibenz(a,h)anthracene	0.410	50.0	ND	ND	0.57 J	ND	ND
Dibenzofuran	0.350	0.325-19.4	ND	ND	0.079 J	ND	ND
Di-n-butylphthalate	0.910	0.428-25.6	ND	ND	ND	1.0 J	ND
2,4,-Dinitrotoluene	0.400		ND	ND	ND	ND	ND
Fluorene	0.330	19.3-50.0	ND	ND	0.12 J	ND	ND
Fluoranthene	0.290	50.0	ND	ND	8.1	ND	ND
Indeno(1,2,3,-cd)pyrene	0.630	0.169-10.1	ND	ND	2.1	ND	ND
2-Methylnaphthalene	0.400	1.92-114.86	ND	ND	ND	ND	ND
Naphthalene	0.360	0.688-10.0	ND	ND	ND	ND	ND
Nitrobenzene-D5	(2) 37-112		1.4	1.4	1.4	85	1.1
2,4,6-Tribromophenol	(2) 25-114		3.5	3.7	2.3	200	2.0
2-Fluorophenol	(2) 31-118		3.6	3.7	3.0	110	2.4
Phenanthrene	0.320		ND	ND	2.3	ND	ND
Phenol-D5	(2) 24-113		3.6	3.7	2.6	64	2.3
2-Fluorobiphenyl	(2) 48-116		1.6	1.5	1.6	84	1.0
Terphenyl-D14	(2) 50-132		1.8	1.7	1.2	98	1.1
Pyrene	0.320	35.2-50.0	ND	ND	6.9	ND	ND

TABLE 1-4  
AIR FORCE PLANT 59  
SOIL DATA SUMMARY FOR SVOCs (SW8270)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)	Method Blank
			Field ID 59SW10SO2 Lab ID 650510	Field ID 59SW10SO3 Lab ID 650551	Field ID 59BH12SO9 Lab ID 650539	Equipment Field ID EB1102394 Lab ID 650559	(mg/kg) Lab ID 651470
Acenaphthene	0.370	4.87-50	ND	ND	ND	ND	ND
Acenaphthylene	0.340	2.18-50.0	ND	ND	ND	ND	ND
Anthracene	0.420	37.0-50.0	ND	ND	ND	ND	ND
bis(2-ethylhexyl)phthalate	0.580	23.0-50.0	ND	ND	ND	ND	ND
Benzo(a)anthracene	0.400	0.146-8.72	ND	ND	ND	ND	ND
Benzo(a)pyrene	0.290	0.582-34.8	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	0.320	0.058-3.48	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	0.370	50.0	ND	ND	ND	ND	ND
Chrysene	0.610	0.021-1.26	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	0.410	50.0	ND	ND	ND	ND	ND
Dibenzofuran	0.350	0.325-19.4	ND	ND	ND	ND	ND
Di-n-butylphthalate	0.910	0.428-25.6	ND	ND	ND	1.0 J	ND
2,4,-Dinitrotoluene	0.400		ND	ND	ND	ND	ND
Fluorene	0.330	19.3-50.0	ND	ND	ND	ND	ND
Fluoranthene	0.290	50.0	ND	ND	ND	ND	ND
Indeno(1,2,3,-cd)pyrene	0.630	0.169-10.1	ND	ND	ND	ND	ND
2-Methylnaphthalene	0.400	1.92-114.86	ND	ND	ND	ND	ND
Naphthalene	0.360	0.688-10.0	ND	ND	ND	ND	ND
Nitrobenzene-D5	(2) 37-112		1.7	1.6	1.1	85	1.1
2,4,6-Tribromophenol	(2) 25-114		3.0	4.0	2.0	200	2.0
2-Fluorophenol	(2) 31-118		3.6	4.2	2.3	110	2.4
Phenanthrene	0.320		ND	ND	ND	ND	ND
Phenol-D5	(2) 24-113		3.6	4.1	2.1	64	2.3
2-Fluorobiphenyl	(2) 48-116		1.7	1.6	1.1	84	1.0
Terphenyl-D14	(2) 50-132		1.7	1.4	1.1	98	1.1
Pyrene	0.320	35.2-50.0	ND	ND	ND	ND	ND

TABLE 1-4  
AIR FORCE PLANT 59  
SOIL DATA SUMMARY FOR SVOCs (SW8270)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)	Method Blank
			Field ID 59SW11SO1 Lab ID 655352	Field ID 59SW11SO2 Lab ID 655371	Field ID 59SW11SO3 Lab ID 655377	Equipment Field ID EB1110994 Lab ID 655387	(mg/kg) Lab ID 660705
Acenaphthene	0.370	4.87-50	ND	ND	ND	ND	ND
Acenaphthylene	0.340	2.18-50.0	ND	ND	ND	ND	ND
Anthracene	0.420	37.0-50.0	ND	ND	ND	ND	ND
bis(2-ethylhexyl)phthalate	0.580	23.0-50.0	ND	ND	0.94	ND	ND
Benzo(a)anthracene	0.400	0.146-8.72	ND	ND	ND	ND	ND
Benzo(a)pyrene	0.290	0.582-34.8	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	0.320	0.058-3.48	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	0.370	50.0	ND	ND	ND	ND	ND
Chrysene	0.610	0.021-1.26	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	0.410	50.0	ND	ND	ND	ND	ND
Dibenzofuran	0.350	0.325-19.4	ND	ND	ND	ND	ND
Di-n-butylphthalate	0.910	0.428-25.6	ND	ND	ND	ND	ND
2,4,-Dinitrotoluene	0.400		ND	ND	ND	ND	ND
Fluorene	0.330	19.3-50.0	ND	ND	ND	ND	ND
Fluoranthene	0.290	50.0	ND	ND	ND	ND	ND
Indeno(1,2,3,-cd)pyrene	0.630	0.169-10.1	ND	ND	ND	ND	ND
2-Methylnaphthalene	0.400	1.92-114.86	ND	ND	0.16	J	ND
Naphthalene	0.360	0.688-10.0	ND	ND	0.49		ND
Nitrobenzene-D5	(2) 37-112		1.4	1.1	4.9	90	J 1.1
2,4,6-Tribromophenol	(2) 25-114		2.9	2.0	2.9	170	J 2.1
2-Fluorophenol	(2) 31-118		2.8	2.2	2.3	110	J 2.1
Phenanthrene	0.320		ND	ND	0.14	J	ND
Phenol-D5	(2) 24-113		2.8	2.3	2.7	80	J 2.2
2-Fluorobiphenyl	(2) 48-116		1.4	1.1	1.6	80	J 1.2
Terphenyl-D14	(2) 50-132		1.5	1.3	1.4	90	J 1.3
Pyrene	0.320	35.2-50.0	ND	ND	ND	ND	ND



TABLE 1-4  
AIR FORCE PLANT 59  
SOIL DATA SUMMARY FOR SVOCs (SW8270)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)	Method Blank
			Field ID 59SW12SO1 Lab ID 658103	Field ID 59SW12SO2 Lab ID 658104	Field ID 59SW12SO3 Lab ID 658105	Equipment Field ID EB1111694 Lab ID 658098	(mg/kg) Lab ID 658677
Acenaphthene	0.370	4.87-50	ND	ND	ND	ND	ND
Acenaphthylene	0.340	2.18-50.0	ND	ND	ND	ND	ND
Anthracene	0.420	37.0-50.0	ND	ND	ND	ND	ND
bis(2-ethylhexyl)phthalate	0.580	23.0-50.0	ND	ND	0.63 J	ND	ND
Benzo(a)anthracene	0.400	0.146-8.72	0.28 J	ND	ND	ND	ND
Benzo(a)pyrene	0.290	0.582-34.8	0.25 J	ND	ND	ND	ND
Benzo(b)fluoranthene	0.320	0.058-3.48	0.35 J	ND	ND	ND	ND
Benzo(g,h,i)perylene	0.370	50.0	0.064 J	ND	ND	ND	ND
Chrysene	0.610	0.021-1.26	0.32 J	ND	ND	ND	ND
Dibenz(a,h)anthracene	0.410	50.0	ND	ND	ND	ND	ND
Dibenzofuran	0.350	0.325-19.4	ND	ND	ND	ND	ND
Di-n-butylphthalate	0.910	0.428-25.6	0.043 J	ND	ND	ND	ND
2,4,-Dinitrotoluene	0.400		ND	ND	ND	ND	ND
Fluorene	0.330	19.3-50.0	ND	ND	ND	ND	ND
Fluoranthene	0.290	50.0	0.30 J	ND	0.037 J	ND	ND
Indeno(1,2,3,-cd)pyrene	0.630	0.169-10.1	0.068 J	ND	ND	ND	ND
2-Methylnaphthalene	0.400	1.92-114.86	ND	ND	ND	ND	ND
Naphthalene	0.360	0.688-10.0	ND	ND	ND	ND	ND
Nitrobenzene-D5	(2) 37-112		2.0	1.4	1.3	80	1.3
2,4,6-Tribromophenol	(2) 25-114		3.4	2.5	2.1	130	3.1
2-Fluorophenol	(2) 31-118		3.8	2.7	2.6	90	2.6
Phenanthrene	0.320		0.089 J	ND	ND	ND	ND
Phenol-D5	(2) 24-113		3.7	2.7	2.5	70	2.8
2-Fluorobiphenyl	(2) 48-116		2.0	1.4	1.3	80	1.3
Terphenyl-D14	(2) 50-132		1.8	1.3	1.3	90	1.3
Pyrene	0.320	35.2-50.0	0.31 J	ND	ND	ND	ND

TABLE 1-4  
AIR FORCE PLANT 59  
SOIL DATA SUMMARY FOR SVOCs (SW8270)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)	Method Blank
			Field ID 59SW12SO4 Lab ID 658106	Field ID 59SW12SO9 Lab ID 658107	Field ID Lab ID	Equipment Field ID EB1111694 Lab ID 658098	(mg/kg) Lab ID 658677
Acenaphthene	0.370	4.87-50	ND	ND		ND	ND
Acenaphthylene	0.340	2.18-50.0	ND	ND		ND	ND
Anthracene	0.420	37.0-50.0	ND	ND		ND	ND
bis(2-ethylhexyl)phthalate	0.580	23.0-50.0	0.16 J	0.61 J		ND	ND
Benzo(a)anthracene	0.400	0.146-8.72	ND	ND		ND	ND
Benzo(a)pyrene	0.290	0.582-34.8	ND	ND		ND	ND
Benzo(b)fluoranthene	0.320	0.058-3.48	ND	ND		ND	ND
Benzo(g,h,i)perylene	0.370	50.0	ND	ND		ND	ND
Chrysene	0.610	0.021-1.26	ND	ND		ND	ND
Dibenz(a,h)anthracene	0.410	50.0	ND	ND		ND	ND
Dibenzofuran	0.350	0.325-19.4	ND	ND		ND	ND
Di-n-butylphthalate	0.910	0.428-25.6	ND	ND		ND	ND
2,4,-Dinitrotoluene	0.400		ND	ND		ND	ND
Fluorene	0.330	19.3-50.0	ND	ND		ND	ND
Fluoranthene	0.290	50.0	ND	ND		ND	ND
Indeno(1,2,3,-cd)pyrene	0.630	0.169-10.1	ND	ND		ND	ND
2-Methylnaphthalene	0.400	1.92-114.86	ND	ND		ND	ND
Naphthalene	0.360	0.688-10.0	ND	ND		ND	ND
Nitrobenzene-D5	(2) 37-112		1.5	1.3		80	1.3
2,4,6-Tribromophenol	(2) 25-114		2.7	2.5		130	3.1
2-Fluorophenol	(2) 31-118		2.9	2.7		90	2.6
Phenanthrene	0.320		ND	ND		ND	ND
Phenol-D5	(2) 24-113		2.9	2.6		70	2.8
2-Fluorobiphenyl	(2) 48-116		1.5	1.4		80	1.3
Terphenyl-D14	(2) 50-132		1.4	1.3		90	1.3
Pyrene	0.320	35.2-50.0	ND	ND		ND	ND

TABLE 1-4  
AIR FORCE PLANT 59  
SOIL DATA SUMMARY FOR SVOCS (SW8270)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)	Method Blank
			Field ID 59SW13SO1 Lab ID 657186	Field ID 59SW13SO2 Lab ID 657174	Field ID Lab ID	Equipment Field ID EB1111494 Lab ID 657199	(mg/kg) Lab ID 660705
Acenaphthene	0.370	4.87-50	ND	ND		ND	ND
Acenaphthylene	0.340	2.18-50.0	ND	ND		ND	ND
Anthracene	0.420	37.0-50.0	ND	ND		ND	ND
bis(2-ethylhexyl)phthalate	0.580	23.0-50.0	ND	ND		ND	ND
Benzo(a)anthracene	0.400	0.146-8.72	0.053	J	ND	ND	ND
Benzo(a)pyrene	0.290	0.582-34.8	ND	ND		ND	ND
Benzo(b)fluoranthene	0.320	0.058-3.48	0.062	J	ND	ND	ND
Benzo(g,h,i)perylene	0.370	50.0	ND	ND		ND	ND
Chrysene	0.610	0.021-1.26	0.058	J	ND	ND	ND
Dibenz(a,h)anthracene	0.410	50.0	ND	ND		ND	ND
Dibenzofuran	0.350	0.325-19.4	ND	ND		ND	ND
Di-n-butylphthalate	0.910	0.428-25.6	ND	ND		ND	ND
2,4,-Dinitrotoluene	0.400		ND	ND		ND	ND
Fluorene	0.330	19.3-50.0	ND	ND		ND	ND
Fluoranthene	0.290	50.0	0.053	J	ND	ND	ND
Indeno(1,2,3,-cd)pyrene	0.630	0.169-10.1	ND	ND		ND	ND
2-Methylnaphthalene	0.400	1.92-114.86	ND	ND		ND	ND
Naphthalene	0.360	0.688-10.0	ND	ND		ND	ND
Nitrobenzene-D5	(2) 37-112		0.96		1.3	90	J 1.1
2,4,6-Tribromophenol	(2) 25-114		2.0		2.9	190	J 2.1
2-Fluorophenol	(2) 31-118		2.0		2.8	110	J 2.1
Phenanthrene	0.320		ND		ND	ND	ND
Phenol-D5	(2) 24-113		2.0		2.8	90	J 2.2
2-Fluorobiphenyl	(2) 48-116		1.1		1.4	80	J 1.2
Terphenyl-D14	(2) 50-132		1.0		1.6	90	J 1.3
Pyrene	0.320	35.2-50.0	0.063	J	ND	ND	ND

TABLE 1-4  
AIR FORCE PLANT 59  
SOIL DATA SUMMARY FOR SVOCs (SW8270)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)	Method Blank
			Field ID 59SW13SO3 Lab ID 657180	Field ID 59SW13SO4 Lab ID 657192	Field ID Lab ID	Equipment Field ID EB1111494 Lab ID 657199	(mg/kg) Lab ID 660705
Acenaphthene	0.370	4.87-50	ND	ND		ND	ND
Acenaphthylene	0.340	2.18-50.0	ND	ND		ND	ND
Anthracene	0.420	37.0-50.0	ND	ND		ND	ND
bis(2-ethylhexyl)phthalate	0.580	23.0-50.0	ND	ND		ND	ND
Benzo(a)anthracene	0.400	0.146-8.72	ND	ND		ND	ND
Benzo(a)pyrene	0.290	0.582-34.8	ND	ND		ND	ND
Benzo(b)fluoranthene	0.320	0.058-3.48	ND	ND		ND	ND
Benzo(g,h,i)perylene	0.370	50.0	ND	ND		ND	ND
Chrysene	0.610	0.021-1.26	ND	ND		ND	ND
Dibenz(a,h)anthracene	0.410	50.0	ND	ND		ND	ND
Dibenzofuran	0.350	0.325-19.4	ND	ND		ND	ND
Di-n-butylphthalate	0.910	0.428-25.6	ND	ND		ND	ND
2,4,-Dinitrotoluene	0.400		ND	ND		ND	ND
Fluorene	0.330	19.3-50.0	ND	ND		ND	ND
Fluoranthene	0.290	50.0	ND	ND		ND	ND
Indeno(1,2,3,-cd)pyrene	0.630	0.169-10.1	ND	ND		ND	ND
2-Methylnaphthalene	0.400	1.92-114.86	ND	ND		ND	ND
Naphthalene	0.360	0.688-10.0	ND	ND		ND	ND
Nitrobenzene-D5	(2) 37-112		1.3	1.1		90 J	1.1
2,4,6-Tribromophenol	(2) 25-114		2.5	2.3		190 J	2.1
2-Fluorophenol	(2) 31-118		2.6	2.2		110 J	2.1
Phenanthrene	0.320		ND	ND		ND	ND
Phenol-D5	(2) 24-113		2.6	2.3		90 J	2.2
2-Fluorobiphenyl	(2) 48-116		1.3	1.2		80 J	1.2
Terphenyl-D14	(2) 50-132		1.3	1.3		90 J	1.3
Pyrene	0.320	35.2-50.0	ND	ND		ND	ND

(1) Action Levels are based on NYSDEC guidance for the Determination of Soil Cleanup Objectives and Cleanup Levels, January, 1994. Levels are based on the partition theory model for protection of water quality. The concentration ranges are based on maximum and minimum calculated action levels. The maximum is limited to 50 ppm for each SVOC.

(2) Surrogate - Control limits are listed in PQL column.

(3) Sample diluted by 2.

Qualifiers: U = Blank Contamination

J = Estimated; UJ = Estimated for Non-detect

TABLE 1-5  
AIR FORCE PLANT 59  
SOIL DATA SUMMARY FOR CYANIDE (SW9012)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)	Method Blank
			Field ID 59BH06SO1 Lab ID 649308	Field ID Lab ID	Field ID Lab ID	Equipment Field ID EB1101994 Lab ID 649364	(mg/kg) Lab ID 651641
Cyanide, Total	0.90		ND			ND	ND

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)	Method Blank
			Field ID 59BH08SO1 Lab ID 649828	Field ID 59BH08SO2 Lab ID 649834	Field ID Lab ID	Equipment Field ID EB1102094 Lab ID 649803	(mg/kg) Lab ID 651641
Cyanide, Total	0.90		ND	ND		ND	ND

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)	Method Blank
			Field ID 59BH08SO3 Lab ID 649840	Field ID 59BH08SO9 Lab ID 649846	Field ID 59BH09SO2 Lab ID 649873	Equipment Field ID EB1102094 Lab ID 649803	(mg/kg) Lab ID 651641
Cyanide, Total	0.90		ND	ND	ND	ND	ND

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)	Method Blank
			Field ID 59BH09SO3 Lab ID 649879	Field ID 59BH09SO4 Lab ID 649885	Field ID 59BH09SO9 Lab ID 649894	Equipment Field ID EB1102094 Lab ID 649803	(mg/kg) Lab ID 651641
Cyanide, Total	0.90		ND	ND	ND	ND	ND

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)	Method Blank
			Field ID 59BH10SO1 Lab ID 650127	Field ID 59BH10SO2 Lab ID 650133	Field ID 59BH10SO3 Lab ID 650121	Equipment Field ID EB1102194 Lab ID 650098	(mg/kg) Lab ID 651641
Cyanide, Total	0.90		ND	ND	ND	ND	ND

TABLE 1-5  
AIR FORCE PLANT 59  
SOIL DATA SUMMARY FOR CYANIDE (SW9012)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)	Method Blank
			Field ID 59BH11SO1 Lab ID 650109	Field ID 59BH11SO2 Lab ID 650115	Field ID 59BH11SO3 Lab ID 650103	Equipment Field ID EB1102194 Lab ID 650098	(mg/kg) Lab ID 651641
Cyanide, Total	0.90		ND	ND	ND	ND	ND

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)	Method Blank
			Field ID 59BH12SO1 Lab ID 650490	Field ID Lab ID	Field ID Lab ID	Equipment Field ID EB1102394 Lab ID 650562	(mg/kg) Lab ID 651641
Cyanide, Total	0.90		ND			ND	ND

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)	Method Blank
			Field ID 59BH09SO1 Lab ID 649862	Field ID Lab ID	Field ID Lab ID	Equipment Field ID EB1102094 Lab ID 649803	(mg/kg) Lab ID 651035
Cyanide, Total	0.90		ND			ND	ND

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)	Method Blank
			Field ID 59BH12SO2 Lab ID 650496	Field ID 59BH12SO3 Lab ID 650504	Field ID 59BH12SO9 Lab ID 650543	Equipment Field ID EB1102394 Lab ID 650562	(mg/kg) Lab ID 651035
Cyanide, Total	0.90		ND	ND	ND	ND	ND

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)	Method Blank
			Field ID 59SW10SO1 Lab ID 650549	Field ID 59SW10SO2 Lab ID 650535	Field ID 59SW10SO3 Lab ID 650555	Equipment Field ID EB1102394 Lab ID 650562	(mg/kg) Lab ID 651035
Cyanide, Total	0.90		ND	ND	ND	ND	ND

TABLE 1-5  
AIR FORCE PLANT 59  
SOIL DATA SUMMARY FOR CYANIDE (SW9012)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)	Method Blank
			Field ID 59SW11SO1 Lab ID 655361	Field ID 59SW11SO2 Lab ID 655374	Field ID 59SW11SO3 Lab ID 655380	Equipment Field ID EB1110994 Lab ID 655396	(mg/kg) Lab ID 659637
Cyanide, Total	0.90		ND	ND	ND	ND	ND

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)	Method Blank
			Field ID 59SW12SO1 Lab ID 658124	Field ID 59SW12SO2 Lab ID 658128	Field ID 59SW12SO3 Lab ID 658132	Equipment Field ID EB1111694 Lab ID 658101	(mg/kg) Lab ID 659637
Cyanide, Total	0.90		ND	ND	ND	ND	ND

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)	Method Blank
			Field ID 59SW12SO4 Lab ID 658136	Field ID 59SW12SO9 Lab ID 658143	Field ID Lab ID	Equipment Field ID EB1111694 Lab ID 658101	(mg/kg) Lab ID 659637
Cyanide, Total	0.90		ND	ND		ND	ND

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)	Method Blank
			Field ID 59SW13SO1 Lab ID 657189	Field ID 59SW13SO2 Lab ID 657177	Field ID 59SW13SO3 Lab ID 657183	Equipment Field ID EB1111494 Lab ID 657202	(mg/kg) Lab ID 659637
Cyanide, Total	0.90		ND	ND	ND	ND	ND

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)	Method Blank
			Field ID 59SW13SO4 Lab ID 657195	Field ID Lab ID	Field ID Lab ID	Equipment Field ID EB1111494 Lab ID 657202	(mg/kg) Lab ID 659637
Cyanide, Total	0.90		ND			ND	ND

TABLE 1-5  
AIR FORCE PLANT 59  
SOIL DATA SUMMARY FOR CYANIDE (SW9012)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)	Method Blank
			Field ID 59BH02SO3 Lab ID 648903	Field ID Lab ID	Field ID Lab ID	Equipment (2) Field ID Lab ID	(mg/kg) Lab ID 651039
Cyanide, Total	0.90		0.64				ND

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)	Method Blank
			Field ID 59BH01SO1 Lab ID 648871	Field ID 59BH01SO2 Lab ID 648882	Field ID 59BH02SO1 Lab ID 648888	Equipment (2) Field ID Lab ID	(mg/kg) Lab ID 650272
Cyanide, Total	0.90		ND	ND	ND		ND

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)	Method Blank
			Field ID 59BH02SO2 Lab ID 648894	Field ID 59BH03SO1 Lab ID 648909	Field ID 59BH03SO2 Lab ID 648915	Equipment (2) Field ID Lab ID	(mg/kg) Lab ID 650272
Cyanide, Total	0.90		ND	ND	ND		ND

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)	Method Blank
			Field ID 59BH03SO3 Lab ID 649274	Field ID 59BH04SO1 Lab ID 649235	Field ID 59BH04SO2 Lab ID 649262	Equipment Field ID EB1101994 Lab ID 649364	(mg/kg) Lab ID 650272
Cyanide, Total	0.90		ND	ND	ND	ND	ND

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)	Method Blank
			Field ID 59BH04SO3 Lab ID 649319	Field ID 59BH04SO9 Lab ID 649247	Field ID 59BH05SO1 Lab ID 649256	Equipment Field ID EB1101994 Lab ID 649364	(mg/kg) Lab ID 650272
Cyanide, Total	0.90		ND	ND	ND	ND	ND



TABLE 1-5  
AIR FORCE PLANT 59  
SOIL DATA SUMMARY FOR CYANIDE (SW9012)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)	Method Blank
			Field ID 59BH05SO2 Lab ID 649268	Field ID 59BH05SO3 Lab ID 649280	Field ID 59BH06SO2 Lab ID 649241	Equipment Field ID EB1101994 Lab ID 649364	(mg/kg) Lab ID 650272
Cyanide, Total	0.90		ND	ND	ND	ND	ND

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)	Method Blank
			Field ID 59BH07SO1 Lab ID 649286	Field ID 59BH07SO2 Lab ID 649292	Field ID Lab ID	Equipment Field ID EB1101994 Lab ID 649364	(mg/kg) Lab ID 650272
Cyanide, Total	0.90		ND	ND		ND	ND

- (1) There are no action levels for Cyanide
- (2) The equipment blank was not analyzed for SW9012

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TABLE 1-6  
AIR FORCE PLANT 59  
SOIL DATA SUMMARY FOR TOTAL ORGANIC CARBON (SW9060)

Parameters	PQL	Action Levels (2)	Environmental Samples (mg/kg) (1)			Method Blank (mg/kg)
			Field ID 59BH01SO1 Lab ID 648874	Field ID 59BH01SO2 Lab ID 648883	Field ID 59BH02SO1 Lab ID 648889	Lab ID 650697
TOC	78.78		1300	1940	7360	ND

Parameters	PQL	Action Levels (2)	Environmental Samples (mg/kg) (1)			Method Blank (mg/kg)
			Field ID 59BH02SO3 Lab ID 648904	Field ID 59BH03SO1 Lab ID 648910	Field ID 59BH03SO2 Lab ID 648918	Lab ID 650697
TOC	78.78		1380	4940	3560	ND

Parameters	PQL	Action Levels (2)	Environmental Samples (mg/kg) (1)			Method Blank (mg/kg)
			Field ID 59BH04SO1 Lab ID 649236	Field ID 59BH06SO2 Lab ID 649242	Field ID Lab ID	Lab ID 650697
TOC	78.78		1150	5020		ND

Parameters	PQL	Action Levels (2)	Environmental Samples (mg/kg) (1)			Method Blank (mg/kg)
			Field ID 59BH02SO2 Lab ID 648895	Field ID Lab ID	Field ID Lab ID	Lab ID 650698
TOC	78.78		615			ND

Parameters	PQL	Action Levels (2)	Environmental Samples (mg/kg) (1)			Method Blank (mg/kg)
			Field ID 59BH03SO3 Lab ID 649275	Field ID 59BH04SO2 Lab ID 649263	Field ID 59BH04SO3 Lab ID 649320	Lab ID 650698
TOC	78.78		1270	1890	1880	ND

TABLE 1-6  
AIR FORCE PLANT 59  
SOIL DATA SUMMARY FOR TOTAL ORGANIC CARBON (SW9060)

Parameters	PQL	Action Levels (2)	Environmental Samples (mg/kg) (1)			Method Blank (mg/kg)
			Field ID 59BH05SO1 Lab ID 649257	Field ID 59BH05SO2 Lab ID 649269	Field ID 59BH05SO3 Lab ID 649281	Lab ID 650698
TOC	78.78		1960	5480	1310	ND

Parameters	PQL	Action Levels (2)	Environmental Samples (mg/kg) (1)			Method Blank (mg/kg)
			Field ID 59BH07SO1 Lab ID 649287	Field ID 59BH07SO2 Lab ID 649293	Field ID 59BH04SO9 Lab ID 649248	Lab ID 650698
TOC	78.78		4680	12200	786	ND

Parameters	PQL	Action Levels (2)	Environmental Samples (mg/kg) (1)			Method Blank (mg/kg)
			Field ID 59BH09SO4 Lab ID 649886	Field ID 59BH09SO9 Lab ID 649895	Field ID Lab ID	Lab ID 651658
TOC	78.78		645	16700		ND

Parameters	PQL	Action Levels (2)	Environmental Samples (mg/kg) (1)			Method Blank (mg/kg)
			Field ID 59BH10SO1 Lab ID 650128	Field ID 59BH10SO2 Lab ID 650134	Field ID 59BH10SO3 Lab ID 650122	Lab ID 651658
TOC	78.78		3540	1300	8280	ND

Parameters	PQL	Action Levels (2)	Environmental Samples (mg/kg) (1)			Method Blank (mg/kg)
			Field ID 59BH11SO1 Lab ID 650110	Field ID 59BH11SO2 Lab ID 650116	Field ID 59BH11SO3 Lab ID 650104	Lab ID 651658
TOC	78.78		18500	1120	9930	ND

TABLE 1-6  
AIR FORCE PLANT 59  
SOIL DATA SUMMARY FOR TOTAL ORGANIC CARBON (SW9060)

Parameters	PQL	Action Levels (2)	Environmental Samples (mg/kg) (1)			Method Blank (mg/kg)
			Field ID 59BH12SO1 Lab ID 650491	Field ID Lab ID	Field ID Lab ID	Lab ID 651658
TOC	78.78		3030			ND

Parameters	PQL	Action Levels (2)	Environmental Samples (mg/kg) (1)			Method Blank (mg/kg)
			Field ID 59BH09SO1 Lab ID 649865	Field ID Lab ID	Field ID Lab ID	Lab ID 653162
TOC	78.78		1470			ND

Parameters	PQL	Action Levels (2)	Environmental Samples (mg/kg) (1)			Method Blank (mg/kg)
			Field ID 59BH12SO2 Lab ID 650497	Field ID 59BH12SO3 Lab ID 650509	Field ID 59SW10SO1 Lab ID 650550	Lab ID 653162
TOC	78.78		3120	1480	31600	ND

Parameters	PQL	Action Levels (2)	Environmental Samples (mg/kg) (1)			Method Blank (mg/kg)
			Field ID 59SW10SO2 Lab ID 650538	Field ID 59SW10SO3 Lab ID 650556	Field ID 59BH12SO9 Lab ID 650544	Lab ID 653162
TOC	78.78		635	743	1270	ND

Parameters	PQL	Action Levels (2)	Environmental Samples (mg/kg) (1)			Method Blank (mg/kg)
			Field ID 59SW11SO1 Lab ID 655364	Field ID 59SW11SO2 Lab ID 655375	Field ID 59SW11SO3 Lab ID 655381	Lab ID 658554
TOC	78.78		4850	2910	7920	ND

TABLE 1-6  
AIR FORCE PLANT 59  
SOIL DATA SUMMARY FOR TOTAL ORGANIC CARBON (SW9060)

Parameters	PQL	Action Levels (2)	Environmental Samples (mg/kg) (1)			Method Blank (mg/kg)
			Field ID 59SW12SO1 Lab ID 658125	Field ID 59SW12SO2 Lab ID 658129	Field ID 59SW12SO3 Lab ID 658133	Lab ID 658554
TOC	78.78		29200	4660	3480	ND

Parameters	PQL	Action Levels (2)	Environmental Samples (mg/kg) (1)			Method Blank (mg/kg)
			Field ID 59SW13SO1 Lab ID 657190	Field ID 59SW13SO2 Lab ID 657178	Field ID 59SW13SO3 Lab ID 657184	Lab ID 658554
TOC	78.78		16800	2340	1770	ND

Parameters	PQL	Action Levels (2)	Environmental Samples (mg/kg) (1)			Method Blank (mg/kg)
			Field ID 59SW13SO4 Lab ID 657196	Field ID Lab ID	Field ID Lab ID	Lab ID 658554
TOC	78.78		2310			ND

Parameters	PQL	Action Levels (2)	Environmental Samples (mg/kg) (1)			Method Blank (mg/kg)
			Field ID 59BH08SO1 Lab ID 649829	Field ID 59BH08SO2 Lab ID 649835	Field ID 59BH08SO3 Lab ID 649841	Lab ID 651659
TOC	78.78		3860	1850	1530	ND

Parameters	PQL	Action Levels (2)	Environmental Samples (mg/kg) (1)			Method Blank (mg/kg)
			Field ID 59BH09SO2 Lab ID 649874	Field ID 59BH09SO3 Lab ID 649880	Field ID 59BH08SO9 Lab ID 649847	Lab ID 651659
TOC	78.78		2710	1400	6770	ND

TABLE 1-6  
 AIR FORCE PLANT 59  
 SOIL DATA SUMMARY FOR TOTAL ORGANIC CARBON (SW9060)

Parameters	PQL	Action Levels (2)	Environmental Samples (mg/kg) (1)			Method Blank (mg/kg)
			Field ID 59SW12SO4 Lab ID 658137	Field ID 59SW12SO9 Lab ID 658144	Field ID Lab ID	Lab ID 663988
TOC	78.78		1240	529		ND

- (1) There are no field blanks associated with the TOC samples.
- (2) There are no action levels available for TOC.

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TABLE 1-7  
AIR FORCE PLANT 59  
SEDIMENT DATA SUMMARY FOR METALS (SW6010, SW7060, SW7421, SW7471, SW7740, SW7841, SW9012)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)	Method Blanks
			Field ID 59CR01SE1 Lab ID 649324	Field ID 59CR02SE1 Lab ID 649330	Field ID 59CR06SE1 Lab ID 649336	Equipment Field ID EB2102094 Lab ID 649807	(mg/kg) Lab ID 655647
Silver (Ag)	0.80		ND	ND UJ	ND	ND	-0.424
Aluminum (Al)	135	6435	7600 J	7340 J	6840 J	64.2 U	13.500
Arsenic (As)	0.85	3.1	5.4	6.1 J	ND	ND	ND
Barium (Ba)	0.65	3.1	41.5 J	36.1 J	42.5 J	63.7	ND
Beryllium (Be)	0.60	0.23	0.21 J	0.21 J	0.24 J	ND	ND
Calcium (Ca)	68.0	24900	7750 J	6700 J	32100 J	104000	6.800
Cobalt (Co)	2.0	7.3	7.8	8.2	7.7	ND	ND
Chromium (Cr)	2.5	9.3	12.2	11.1 J	9.9	ND	ND
Copper (Cu)	3.0	19.5	24.1	21.4 J	26.8	40.3	ND
Iron (Fe)	38.5	16700	19500 J	19600 J	17600 J	201	3.850
Mercury (Hg)	0.30		ND	ND	ND	ND	ND
Potassium (K)	530	775	926	651 U	661	1800 J	392.160
Magnesium (Mg)	52.0	3140	2990 J	5100 J	3440 J	18500	ND
Manganese (Mn)	5.5	490.5	410 J	394 J	584 J	3.6	0.550
Molybdenum (Mo)	11.0	14.5	15.5	16.8	15.0	ND	ND
Sodium (Na)	380	118	96.4 J	103 U	118 J	41000	38.000
Nickel (Ni)	8.5	16.7	15.6	16.6	14.1	ND	ND
Lead (Pb)	0.30	17.4	11.6	23.6 J	19.5	ND	ND
Vanadium (V)	4.0	10.5	9.6	10.6	9.5	ND	ND
Zinc (Zn)	9.0	104.9	114 J	115 J	138 J	35.6	ND

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)	Method Blanks
			Field ID 59CR05SE1 Lab ID 649899	Field ID Lab ID	Field ID Lab ID	Equipment Field ID EB2102094 Lab ID 649807	(mg/kg) Lab ID 655647
Silver (Ag)	0.80		ND			ND	-0.424
Aluminum (Al)	135	6435	6030 J			64.2 U	13.500
Arsenic (As)	0.85	3.1	5.2			ND	ND
Barium (Ba)	0.65	3.1	31.0 J			63.7	ND
Beryllium (Be)	0.60	0.23	0.21 J			ND	ND
Calcium (Ca)	68.0	24900	17700 J			104000	6.800
Cobalt (Co)	2.0	7.3	6.9			ND	ND
Chromium (Cr)	2.5	9.3	8.7			ND	ND
Copper (Cu)	3.0	19.5	12.2			40.3	ND
Iron (Fe)	38.5	16700	15800 J			201	3.850
Mercury (Hg)	0.30		ND			ND	ND
Potassium (K)	530	775	889			1800 J	392.160
Magnesium (Mg)	52.0	3140	2840 J			18500	ND
Manganese (Mn)	5.5	490.5	397 J			3.6	0.550
Molybdenum (Mo)	11.0	14.5	14.0			ND	ND
Sodium (Na)	380	118	96.2 U			41000	38.000
Nickel (Ni)	8.5	16.7	19.3			ND	ND
Lead (Pb)	0.30	17.4	15.3			ND	ND
Vanadium (V)	4.0	10.5	11.5			ND	ND
Zinc (Zn)	9.0	104.9	71.7 J			35.6	ND

TABLE 1-7  
 AIR FORCE PLANT 59  
 SEDIMENT DATA SUMMARY FOR METALS (SW6010, SW7060, SW7421, SW7471, SW7740, SW7841, SW9012)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)	Method Blank
			Field ID 59CR04SE1 Lab ID 648922	Field ID 59CR04SE9 Lab ID 648928	Field ID Lab ID	Equipment Field ID EB2102094 Lab ID 649807	(mg/kg) Lab ID 659327 (2)
Silver (Ag)	0.80		ND	0.59 J		ND	ND
Aluminum (Al)	135	6435	1920 J	9450 J		64.2 U	4.026
Arsenic (As)	0.85	3.1	4.4	5.5		ND	ND
Barium (Ba)	0.65	3.1	14.5	71.3		63.7	ND
Beryllium (Be)	0.60	0.23	ND	0.47 J		ND	ND
Calcium (Ca)	68.0	24900	2060 J	1630 J		104000	0.623
Cobalt (Co)	2.0	7.3	1.7 J	9.4		ND	ND
Chromium (Cr)	2.5	9.3	3.5 J	16.2		ND	ND
Copper (Cu)	3.0	19.5	5.7 J	28.8 J		40.3	ND
Iron (Fe)	38.5	16700	4070 J	20100 J		201	6.061
Mercury (Hg)	0.30		0.22 J	0.17 J		ND	ND
Potassium (K)	530	775	269 J	843		1800 J	ND
Magnesium (Mg)	52.0	3140	577 J	2830 J		18500	ND
Manganese (Mn)	5.5	490.5	60.5 J	302 J		3.6	ND
Molybdenum (Mo)	11.0	14.5	ND	ND		ND	ND
Sodium (Na)	380	118	72.7 J	121 J		41000	ND
Nickel (Ni)	8.5	16.7	4.3 J	21.1		ND	ND
Lead (Pb)	0.30	17.4	55.5	54.1		ND	ND
Vanadium (V)	4.0	10.5	3.3 J	15.9		ND	ND
Zinc (Zn)	9.0	104.9	383 J	362 J		35.6	ND

(1) Action Level based on background levels..

(2) Method Blank 655141 analyzed for As, Ca, Hg, Mo, Pb, Se, and Zn.

Qualifiers: UJ = Estimated for Non-detect

J = Estimated; U = Blank Contamination

TABLE 1-8  
 AIR FORCE PLANT 59  
 SEDIMENT DATA SUMMARY FOR PCB/PESTICIDE (SW8080)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)						Field Blanks (ug/L)						Method Blank (mg/kg)		
			Field ID 59CR04SE1 Lab ID 648921	IC	2C	PR	Field ID 59CR04SE9 Lab ID 648927	IC	2C	PR	Equipment EB2102094 Lab ID 649806	IC	2C	PR	IC	2C	PR
Aldrin	0.010	0.0001-0.001	0.0012	0.0012	0.0012	0.0012	J	0.0010	0.0015	0.0010	J	0.0010	J	0.0001	0.0005	0.0001	
alpha-BHC	0.0025		0.0001	0.0001	0.0001	0.0001	J			ND						ND	
beta-BHC	0.010				ND		J			ND						ND	
delta-BHC	0.00075		0.0021	0.0003	0.0003	0.0003	J			ND						ND	
gamma-BHC (Lindane)	0.0025		0.0001	0.0026	0.0001	0.0001	J			ND						ND	
Decachlorobiphenyl(2)	20-150				0.020			0.021		0.076						0.013	
4,4 -DDD	0.010	5E-6 - 1E-4	0.0002	0.0008	0.0002	0.0002	J	0.0002		0.0048			0.0048	0.0005		ND	
4,4 -DDE	0.015	5E-6 - 1E-4	0.0003	0.0023	0.0003	0.0003	U	0.0003		ND			0.0048	0.0010		0.0005	
4,4 -DDT	0.010	5E-6 - 1E-4	0.0003	0.0007	0.0003	0.0003	J	0.0003		ND			0.0048			0.0005	
Dieldrin	0.010	0.0001-0.001	0.0013	0.0006	0.0006	0.0006	J	0.0008	0.0021	0.0008	J	0.0008	U	0.0002	0.0006	0.0002	
Endosulfan I	0.0050	4E-5 - 4E-4	0.0030	0.0012	0.0012	0.0012	J	0.0020	0.0020	0.0020	J	0.0020	U	0.0002		ND	
Endosulfan II	0.020	4E-5 - 4E-4	0.0002	0.0016	0.0002	0.0002	J	0.0003	0.0036	0.0003	J	0.0003	U	0.0005		ND	
Endosulfan sulfate	0.020		0.0029	0.0011	0.0011	0.0011	J	0.0008	0.0027	0.0008	J	0.0008	U	0.0002	0.0014	0.0002	
Endrin	0.010	0.001-0.01	0.0007	0.0008	0.0007	0.0007	U	0.0025	0.0031	0.0025	J	0.0025	U	0.0005	0.0004	0.0002	
Endrin aldehyde	0.015		0.0001	0.0013	0.0001	0.0001	U	0.0025		0.0025	J	0.0025	U	0.0001	0.0002	0.0001	
Heptachlor epoxide	0.015	1E-6 - 1E-5			ND		U			ND			U	0.0005	0.0005	0.0001	
Heptachlor	0.0025	1E-6 - 1E-5	0.0003	0.0005	0.0003	0.0003	U	0.0003		ND			U	0.0005	0.0001	0.0001	
Methoxychlor	0.030	0.0008-0.008	0.0004	0.054	0.0004	0.0004	J	0.025	0.019	0.019	J	0.019	U	0.0001	0.0002	0.0001	
PCB-1254	0.020	1E-6 - 1E-5			ND		J			ND			U	0.0011	0.0080	ND	
Tetrachloro-m-xylene(2)	20-150				0.022			0.024		0.024				0.011	0.0080	0.014	

TABLE 1-8  
 AIR FORCE PLANT 59  
 SEDIMENT DATA SUMMARY FOR PCB/PESTICIDE (SW8080)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)						Field Blanks (ug/L)						Method Blank (mg/kg)				
			Field ID 59CR01SE1 Lab ID 649323		Field ID 59CR02SE1 Lab ID 649329		Field ID 59CR03SE1 Lab ID 649335		Equipment EB2102094 Lab ID 649806		Equipment EB2102094 Lab ID 649806		Lab ID 650626		IC	PR			
			IC	2C	PR	IC	2C	PR	IC	2C	PR	IC	2C						
Aldrin	0.010	0.0001-0.001	0.0004	1.4	ND	0.0016	0.0011	0.0011	J	0.0011	J	0.0016	1.3	ND	0.0048	0.0002	0.0002	ND	ND
alpha-BHC	0.0025				ND					0.0004	J	0.016		ND				ND	ND
beta-BHC	0.010				0.0004	J	0.016	1.3	0.016	J				0.016	ND			ND	ND
delta-BHC	0.00075				ND					ND				ND				ND	ND
gamma-BHC (Lindane)	0.0025				ND					0.011				ND				0.076	0.0002
Decachlorobiphenyl(2)	20-150				0.011					0.013				0.013				0.0048	0.014
4,4 -DDD	0.010	5E-6 - 1E-4			ND					ND				0.0052	0.0048			0.0048	ND
4,4 -DDE	0.015	5E-6 - 1E-4			ND					ND				0.0052	0.0048			0.0048	ND
4,4 -DDT	0.010	5E-6 - 1E-4			ND					ND				0.0052	0.0048			0.0048	ND
Dieldrin	0.010	0.0001-0.001	0.0002	0.0013	ND	0.0079	0.0004	0.0004	J	0.0007	U	0.0079	0.0004	0.0004	0.011	0.0001	0.0007	0.0001	ND
Endosulfan I	0.0050				0.0002	U	0.0007	0.0028	0.0007	0.0028	U	0.0079	0.0028	0.011	0.0001	0.0007	0.0007	0.0001	ND
Endosulfan II	0.020	4E-5 - 4E-4	0.0005	0.0022	ND	0.0075	0.0028	0.0028	J	0.0028	J	0.0075	0.0028	0.011	0.0001	0.0007	0.0007	0.0001	ND
Endosulfan sulfate	0.020	4E-5 - 4E-4	0.0061	0.0006	0.0005	U	0.0041	0.0044	U	0.0044	U	0.0041	0.0044	0.0066	0.0007	0.0009	0.0009	0.0007	0.0007
Endrin	0.010	0.001-0.01			0.0006	J	0.0007	0.0009	J	0.0009	J	0.0007	0.0009	0.0007	0.0007	0.0009	0.0009	0.0007	ND
Endrin aldehyde	0.015		0.0003	0.0012	0.0003	J	0.012	0.0009	J	0.0009	J	0.012	0.0009	0.0029	0.0029	0.0029	0.0029	0.0029	ND
Heptachlor epoxide	0.015	1E-6 - 1E-5	0.94	0.0004	0.0004	J	1.4	0.0012	J	0.0012	J	1.4	0.0012	0.0029	0.0029	0.0029	0.0029	0.0029	ND
Heptachlor	0.0025	1E-6 - 1E-5			ND		0.0002	0.0008	J	0.0002	J	0.0002	0.0008	0.0040	0.0040	0.0040	0.0040	0.0040	ND
Methoxychlor	0.030	0.0008-0.008			ND		0.0016	0.0043	J	0.0016	J	0.0016	0.0043	0.0024	0.0024	0.0024	0.0024	0.0024	ND
PCB-1254	0.020	1E-6 - 1E-5			ND		0.0016	0.0043	J	0.0016	J	0.0016	0.0043	0.0024	0.0024	0.0024	0.0024	0.0024	ND
Tetrachloro-m-xylene(2)	20-150				0.011		0.0095	0.0095		0.0095		0.0095	0.0095	0.20	0.20	0.20	0.20	0.20	0.015

TABLE 1-8  
 AIR FORCE PLANT 59  
 SEDIMENT DATA SUMMARY FOR PCB/PESTICIDE (SW8080)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)						Field Blanks (ug/L)						
			Field ID			Field ID			Equipment			Method Blank (mg/kg)			
			IC	2C	PR	IC	2C	PR	IC	2C	PR	IC	2C	PR	
Aldrin	0.010	0.0001-0.001	0.0006	0.0013	0.0006	J									
alpha-BHC	0.0025				ND										
beta-BHC	0.010		0.013	0.86	0.013	J									
delta-BHC	0.00075				ND										
gamma-BHC (Lindane)	0.0025				ND										
Decachlorobiphenyl(2)	20-150				0.0045										
4,4 -DDD	0.010	5E-6 - 1E-4			ND				0.0052	0.0048	J				
4,4 -DDE	0.015	5E-6 - 1E-4			ND										
4,4 -DDT	0.010	5E-6 - 1E-4	0.0096	0.0005	0.0005	J									
Dieldrin	0.010	0.0001-0.001	0.0003	0.0011	0.0003	U			0.013	0.011	U				
Endosulfan I	0.0050	4E-5 - 4E-4	0.0034	0.0013	0.0013	J									
Endosulfan II	0.020	4E-5 - 4E-4	0.0016	0.0019	0.0016	U			0.015	0.0066	U				
Endosulfan sulfate	0.020		0.0004	0.0012	0.0004	J									
Endrin	0.010	0.001-0.01	0.0001	0.0004	0.0001	J									
Endrin aldehyde	0.015		0.0064	0.0006	0.0006	J			0.024	0.0029	U				
Heptachlor epoxide	0.015	1E-6 - 1E-5	1.0	0.0004	0.0004	J									
Heptachlor	0.0025	1E-6 - 1E-5			ND				0.0024	0.0040	U				
Methoxychlor	0.030	0.0008-0.008	0.0024	0.0051	0.0024	J									
PCB-1254	0.020	1E-6 - 1E-5			ND										
Tetrachloro-m-xylene(2)	20-150				0.0080									0.20	0.015

TABLE 1-8  
AIR FORCE PLANT 59  
SEDIMENT DATA SUMMARY FOR PCB/PESTICIDE (SW8080)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)						Field Blanks (ug/L)						Method Blank (mg/kg)			
			59CR05SE1 Lab ID 649898			Field ID Lab ID			Equipment Field ID EB2102094 Lab ID 649806			Lab ID 650642						
			IC	2C	PR	IC	2C	PR	IC	2C	PR	IC	2C	PR				
Aldrin	0.010	0.0001-0.001			ND									0.0006	0.0002	0.0002	0.0002	ND
alpha-BHC	0.0025				ND													ND
beta-BHC	0.010				ND													ND
delta-BHC	0.00075				ND													ND
gamma-BHC (Lindane)	0.0025				ND													ND
Decachlorobiphenyl(2)	20-150			0.016														0.076
4,4 -DDD	0.010	5E-6 - 1E-4			ND								0.0052	0.0048				0.0048
4,4 -DDE	0.015	5E-6 - 1E-4			0.0011	0.0027												ND
4,4 -DDT	0.010	5E-6 - 1E-4			ND													ND
Dieldrin	0.010	0.0001-0.001			ND													0.011
Endosulfan I	0.0050	4E-5 - 4E-4			0.0014	0.0029												ND
Endosulfan II	0.020	4E-5 - 4E-4			ND													0.0066
Endosulfan sulfate	0.020				0.0027	0.0004												ND
Endrin	0.010	0.001-0.01			0.0045	0.059												ND
Endrin aldehyde	0.015				0.0017	0.0014												0.0029
Heptachlor epoxide	0.015	1E-6 - 1E-5			ND													ND
Heptachlor	0.0025	1E-6 - 1E-5			ND													0.0024
Methoxychlor	0.030	0.0008-0.008			0.0060	0.011												0.0001
PCB-1254	0.020	1E-6 - 1E-5			0.16													0.0005
Tetrachloro-m-xylene(2)	20-150				0.017													0.20

(1) Action Levels are based on the Technical Guidance for Screening Contaminated Sediments, NYSDEC, November 1993.

(2) Surrogate - Control limits are listed in the PQL column.

Qualifiers: U = Blank Contamination

J = Estimated; UJ = Estimated for Non-detect

TABLE 1-9  
AIR FORCE PLANT 59  
SEDIMENT ANALYTICAL DATA SUMMARY  
FOR VOLATILE ORGANIC COMPOUNDS (SW8260)

Parameters	Action Levels (1)	Environmental Samples (mg/kg)				Field Blanks (ug/l)				Method Blank (mg/kg)		
		Field ID		Field ID		Trip		Equipment			Ambient	
		59CR01SE1 Lab ID 649322	0.049 0.057 0.064 0.0085 0.0015	Lab ID 649367	4.4 5.0 4.9 0.40 ND	Field ID Lab ID	TB1101994 Lab ID 649804	4.8 4.9 5.5 0.81 ND	Field ID Lab ID		EB2102094 Lab ID 651057	4.3 4.5 5.8 0.93 ND
Bromofluorobenzene	PQL 74-121	(2)									Lab ID 650291	0.043
Toluene-D8	81-117	(2)										0.048
Dibromofluoromethane	80-120	(2)										0.049
Methylene chloride	0.035		U				U					0.016
Naphthalene	0.360		J									0.0030

Parameters	Action Levels (1)	Environmental Samples (mg/kg)				Field Blanks (ug/l)				Method Blank (mg/kg)			
		Field ID		Field ID		Trip		Equipment			Ambient		
		59CR05SE1 Lab ID 649897	0.050 0.052 0.062 0.0089 ND	Lab ID	TB1102094 Lab ID 649809	Field ID Lab ID	4.6 4.8 5.4 1.1 ND	Field ID Lab ID	EB2102094 Lab ID 649804		4.8 4.9 5.5 0.81 ND	Field ID Lab ID	AB1102094 Lab ID 651057
Bromofluorobenzene	PQL 74-121	(2)										Lab ID 650181	0.051
Toluene-D8	81-117	(2)											0.055
Dibromofluoromethane	80-120	(2)											0.058
Methylene chloride	0.035		U				U						0.013
Naphthalene	0.360												0.0028

Parameters	Action Levels (1)	Environmental Samples (mg/kg)				Field Blanks (ug/l)				Method Blank (mg/kg)				
		Field ID		Field ID		Trip		Equipment			Ambient			
		59CR06SE1 Lab ID 649334	0.046 0.052 0.059 0.015 ND	Lab ID 649328	0.047 0.054 0.060 0.022 ND	Field ID Lab ID	TB1101994 Lab ID 649367	4.4 5.0 4.9 0.40 ND	Field ID Lab ID		EB2102094 Lab ID 649804	4.8 4.9 5.5 0.81 ND	Field ID Lab ID	AB1102094 Lab ID 651057
Bromofluorobenzene	PQL 74-121	(2)											Lab ID 649614	0.038
Toluene-D8	81-117	(2)												0.042
Dibromofluoromethane	80-120	(2)												0.046
Methylene chloride	0.035		U				U							0.0051
Naphthalene	0.360													ND

TABLE 1-9  
 AIR FORCE PLANT 59  
 SEDIMENT ANALYTICAL DATA SUMMARY  
 FOR VOLATILE ORGANIC COMPOUNDS (SW8260)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)			Method Blank (mg/kg)
			Field ID	Field ID	Lab ID	Trip	Field ID	Equipment	
Bromofluorobenzene	(2)	74-121	59CR04SE9	59CR04SE1	648920	TB1101894	EB2102094	AB1102094	648949
Toluene-D8	(2)	81-117	648926	648920	648920	Lab ID 648846	Lab ID 649804	Lab ID 651057	0.044
Dibromofluoromethane	(2)	80-120	0.059	0.056	0.056	4.7	4.8	4.3	0.049
Methylene chloride		0.035	0.068	0.065	0.065	5.1	4.9	4.5	0.054
Naphthalene		0.360	0.080	0.075	0.075	5.4	5.5	5.8	0.0051
			0.012	0.019	0.019	1.2	0.81	0.93	ND
			ND	ND	ND	ND	ND	ND	ND

(1) There are no action levels listed for these compounds in the Technical Guidance for Screening Contaminated Sediments, NYSDEC, Nov. 1993.  
 (2) Surrogate - Control limits are listed in PQL column.

Qualifiers: U = Blank Contamination

J = Estimated; UJ = Estimated for Non-detect



TABLE 1-10  
AIR FORCE PLANT 59  
SEDIMENT DATA SUMMARY FOR SVOCS (SW8270)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)	Method Blank
			Field ID 59CR04SE1 Lab ID 648919	Field ID 59CR04SE9 Lab ID 648925	Field ID Lab ID	Equipment Field ID EB2102094 Lab ID 649805	(mg/kg) Lab ID 651470
Anthracene	0.420		ND	ND		ND	ND
bis(2-ethylhexyl)phthalate	0.580	0.17-1.6	0.083 J	0.15 J		ND	ND
Benzo(a)anthracene	0.400	0.002-0.02	0.20 J	0.21 J		ND	ND
Benzo(a)pyrene	0.290	0.002-0.02	0.17 J	0.17 J		ND	ND
Benzo(b)fluoranthene	0.320	0.002-0.02	0.24 J	0.29 J		ND	ND
Benzo(g,h,i)perylene	0.370		0.077 J	0.079 J		ND	ND
Chrysene	0.610	0.002-0.02	0.20 J	0.22 J		ND	ND
Dibenzofuran	0.350		ND	ND		ND	ND
Di-n-butylphthalate	0.910		ND	ND		ND	ND
Fluorene	0.330		ND	ND		ND	ND
Fluoranthene	0.290	1.4-13.6	0.26 J	0.28 J		ND	ND
Indeno(1,2,3,-cd)pyrene	0.630	0.002-0.02	0.058 J	0.061 J		ND	ND
2-Methylnaphthalene	0.400		ND	ND		ND	ND
Naphthalene	0.360		ND	ND		ND	ND
Nitrobenzene-D5 (2)	37-112		1.8	2.1		83	1.1
2,4,6-Tribromophenol (2)	25-114		3.5	3.7		180	2.0
2-Fluorophenol (2)	31-118		4.0	4.4		100	2.4
Phenanthrene	0.320		0.090 J	0.13 J		ND	ND
Phenol-D5 (2)	24-113		3.9	4.4		66	2.3
2-Fluorobiphenyl (2)	48-116		1.9	2.1		76	1.0
Terphenyl-D14 (2)	50-132		1.8	2.1		94	1.1
Pyrene	0.320		0.30 J	0.33 J		ND	ND

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)	Method Blank
			Field ID 59CR01SE1 Lab ID 649321	Field ID 59CR02SE1 Lab ID 649327	Field ID 59CR06SE1 Lab ID 649333	Equipment Field ID EB2102094 Lab ID 649805	(mg/kg) Lab ID 649972
Anthracene	0.420		ND	0.34 J	ND	ND	ND
bis(2-ethylhexyl)phthalate	0.580	0.17-1.6	ND	0.23 U	0.094 J	ND	ND
Benzo(a)anthracene	0.400	0.002-0.02	ND	0.97	0.12 J	ND	ND
Benzo(a)pyrene	0.290	0.002-0.02	ND	0.89	0.097 J	ND	ND
Benzo(b)fluoranthene	0.320	0.002-0.02	ND	1.5	0.17 J	ND	ND
Benzo(g,h,i)perylene	0.370		ND	0.41 J	ND	ND	ND
Chrysene	0.610	0.002-0.02	ND	1.0	0.12 J	ND	ND
Dibenzofuran	0.350		ND	0.12 J	ND	ND	ND
Di-n-butylphthalate	0.910		ND	0.068 J	ND	ND	ND
Fluorene	0.330		ND	0.20 J	ND	ND	ND
Fluoranthene	0.290	1.4-13.6	0.058 J	1.9	0.20 J	ND	ND
Indeno(1,2,3,-cd)pyrene	0.630	0.002-0.02	ND	ND	ND	ND	ND
2-Methylnaphthalene	0.400		ND	0.067 J	ND	ND	ND
Naphthalene	0.360		ND	0.21 J	ND	ND	ND
Nitrobenzene-D5 (2)	37-112		0.98	1.7	1.4	83	1.2
2,4,6-Tribromophenol (2)	25-114		2.2	3.4	2.6	180	2.4
2-Fluorophenol (2)	31-118		2.6	4.0	3.0	100	2.8
Phenanthrene	0.320		ND	1.7	0.16 J	ND	ND
Phenol-D5 (2)	24-113		2.4	3.5	2.9	66	2.8
2-Fluorobiphenyl (2)	48-116		1.3	2.0	1.4	76	1.3
Terphenyl-D14 (2)	50-132		1.2	1.5	1.1	94	1.2
Pyrene	0.320		0.071 J	1.4	0.16 J	ND	ND

TABLE 1-10  
AIR FORCE PLANT 59  
SEDIMENT DATA SUMMARY FOR SVOCS (SW8270)

Parameters	PQL	Action Levels (1)	Environmental Samples (mg/kg)			Field Blanks (ug/l)	Method Blank
			Field ID 59CR05SE1 Lab ID 649896	Field ID Lab ID	Field ID Lab ID	Equipment Field ID EB2102094 Lab ID 649805	(mg/kg) Lab ID 651638
Anthracene	0.420		ND			ND	ND
bis(2-ethylhexyl)phthalate	0.580	0.17-1.6	0.076 J			ND	ND
Benzo(a)anthracene	0.400	0.002-0.02	0.064 J			ND	ND
Benzo(a)pyrene	0.290	0.002-0.02	0.054 J			ND	ND
Benzo(b)fluoranthene	0.320	0.002-0.02	0.045 J			ND	ND
Benzo(g,h,i)perylene	0.370		ND			ND	ND
Chrysene	0.610	0.002-0.02	0.080 J			ND	ND
Dibenzofuran	0.350		ND			ND	ND
Di-n-butylphthalate	0.910		0.074 J			ND	ND
Fluorene	0.330		ND			ND	ND
Fluoranthene	0.290	1.4-13.6	0.11 J			ND	ND
Indeno(1,2,3,-cd)pyrene	0.630	0.002-0.02	ND			ND	ND
2-Methylnaphthalene	0.400		ND			ND	ND
Naphthalene	0.360		ND			ND	ND
Nitrobenzene-D5 (2)	37-112		2.0			83	1.4
2,4,6-Tribromophenol (2)	25-114		2.8			180	3.5
2-Fluorophenol (2)	31-118		3.9			100	3.1
Phenanthrene	0.320		0.048 J			ND	ND
Phenol-D5 (2)	24-113		3.8			66	3.0
2-Fluorobiphenyl (2)	48-116		1.9			76	1.5
Terphenyl-D14 (2)	50-132		1.6			94	1.5
Pyrene	0.320		0.11 J			ND	ND

(1) Action Levels are based on the Technical Guidance for Screening Contaminated Sediments, NYSDEC, November 1993.

(2) Surrogate - Control limits are listed in PQL column.

Qualifiers: U = Blank Contamination

J = Estimated; UJ = Estimated for Non-detect

TABLE 1-11  
AIR FORCE PLANT 59  
SEDIMENT DATA SUMMARY FOR TOTAL ORGANIC CARBON (SW9060)

Parameters	PQL	Action Levels (2)	Environmental Samples (mg/kg) (1)			Method Blank (mg/kg)
			Field ID 59BH06SO1 Lab ID 649311	Field ID Lab ID	Field ID Lab ID	Lab ID 651659
TOC	78.78		2830			ND

Parameters	PQL	Action Levels (2)	Environmental Samples (mg/kg) (1)			Method Blank (mg/kg)
			Field ID 59CR04SE1 Lab ID 648924	Field ID 59CR04SE9 Lab ID 648930	Field ID Lab ID	Lab ID 650697
TOC	78.78		8350	13400		ND

Parameters	PQL	Action Levels (2)	Environmental Samples (mg/kg) (1)			Method Blank (mg/kg)
			Field ID 59CR05SE1 Lab ID 649901	Field ID Lab ID	Field ID Lab ID	Lab ID 651658
TOC	78.78		1410			ND

Parameters	PQL	Action Levels (2)	Environmental Samples (mg/kg) (1)			Method Blank (mg/kg)
			Field ID 59CR01SE1 Lab ID 649326	Field ID 59CR02SE1 Lab ID 649332	Field ID 59CR06SE1 Lab ID 649338	Lab ID 651659
TOC	78.78		5520	2990	4370	ND

- (1) There are no field blanks associated with the TOC samples.  
(2) There are no action levels available for TOC.

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TABLE 1-12  
AIR FORCE PLANT 59  
GROUNDWATER DATA SUMMARY FOR METALS (SW6010, SW7060, SW7421, SW7470, SW7740, SW7841, SW9012)

Parameters	PQL	Action Levels	Environmental Samples (ug/l)			Field Blanks (ug/l)	Method Blanks (ug/l)
			Field ID 59SW3WG1 Lab ID 663589	Field ID 59SW3WG9 Lab ID 663611	Field ID Lab ID	Equipment Field ID EB112294 Lab ID 663617	Lab ID 673605
Silver (Ag)	0.0080	50 (1)	ND	ND		ND	ND
Aluminum (Al)	0.12		106 U	113 U		113 J	115.060
Arsenic (As)	0.018	25 (2)	3.5 J	3.4 J		ND	ND
Barium (Ba)	0.0040	1000 (2)	37.6 J	39.0 J		1.1 U	1.451
Beryllium (Be)	0.0025	4 (1)	0.57 J	ND		ND	ND
Calcium (Ca)	1.0		84400	88800		469 U	184.010
Chromium (Cr)	0.019	50 (2)	ND	ND		ND	ND
Copper (Cu)	0.010	200 (2)	2.9 U	3.3 U		3.3 U	2.895
Iron (Fe)	0.12	300 (2)	71.0 U	53.3 U		71.0 U	53.254
Potassium (K)	2.2		2310	2570		ND	ND
Magnesium (Mg)	0.058		13800	14400		47.4 J	ND
Manganese (Mn)	0.0035	500 (2)	2.7 U	3.6 U		1.6 J	ND
Sodium (Na)	0.44	20,000 (2)	37500	39600		882 U	605.900
Nickel (Ni)	0.050	100 (1)	ND	ND		ND	ND
Lead (Pb)	0.0075	15 (1)	ND	ND		ND	ND
Thallium (Tl)	0.0035	2 (1)	ND	ND		ND	ND
Vanadium (V)	0.0065		ND	ND		ND	ND
Zinc (Zn)	0.0095	300 (2)	30.4 U	31.0 U		27.1 U	14.671

Parameters	PQL	Action Levels	Environmental Samples (ug/l)			Field Blanks (ug/l)	Method Blanks (ug/l)
			Field ID 59IW13WG1 Lab ID 667053	Field ID 59DW9WG1 Lab ID 663605	Field ID Lab ID	Equipment Field ID EB112294 Lab ID 663617	Lab ID 673605
Silver (Ag)	0.0080	50 (1)	ND	ND		ND	ND
Aluminum (Al)	0.12		142 U	102 U		113 J	115.060
Arsenic (As)	0.018	25 (2)	ND	ND		ND	ND
Barium (Ba)	0.0040	1000 (2)	73.9 J	36.8 J		1.1 U	1.451
Beryllium (Be)	0.0025	4 (1)	ND	ND		ND	ND
Calcium (Ca)	1.0		221000	154000		469 U	184.010
Chromium (Cr)	0.019	50 (2)	ND	ND		ND	ND
Copper (Cu)	0.010	200 (2)	3.7 U	ND		3.3 U	2.895
Iron (Fe)	0.12	300 (2)	124 U	4460		71.0 U	53.254
Potassium (K)	2.2		3770	1950 J		ND	ND
Magnesium (Mg)	0.058		34600	26900		47.4 J	ND
Manganese (Mn)	0.0035	500 (2)	6710	1440		1.6 J	ND
Sodium (Na)	0.44	20,000 (2)	75400	25700		882 U	605.900
Nickel (Ni)	0.050	100 (1)	ND	ND		ND	ND
Lead (Pb)	0.0075	15 (1)	ND	1.7 J		ND	ND
Thallium (Tl)	0.0035	2 (1)	47.0	ND		ND	ND
Vanadium (V)	0.0065		ND	ND		ND	ND
Zinc (Zn)	0.0095	300 (2)	46.0 U	32.3 U		27.1 U	14.671

TABLE 1-12  
AIR FORCE PLANT 59  
GROUNDWATER DATA SUMMARY FOR METALS (SW6010, SW7060, SW7421, SW7470, SW7740, SW7841, SW9012)

Parameters	PQL	Action Levels	Environmental Samples (ug/l)			Field Blanks (ug/l)	Method Blanks (ug/l)
			Field ID 59SW9WG1 Lab ID 663822	Field ID 59DW12WG1 Lab ID 663811	Field ID Lab ID	Equipment Field ID EB112394 Lab ID 663817	Lab ID 673605
Silver (Ag)	0.0080	50 (1)	ND	ND		ND	ND
Aluminum (Al)	0.12		904	114 U		90.7 J	115.060
Arsenic (As)	0.018	25 (2)	ND	ND		ND	ND
Barium (Ba)	0.0040	1000 (2)	47.3 J	41.6 J		0.98 U	1.451
Beryllium (Be)	0.0025	4 (1)	ND	ND		ND	ND
Calcium (Ca)	1.0		98200	157000		743 U	184.010
Chromium (Cr)	0.019	50 (2)	ND	ND		ND	ND
Copper (Cu)	0.010	200 (2)	6.2 U	2.9		3.7 U	2.895
Iron (Fe)	0.12	300 (2)	2060	272 U		65.1 U	53.254
Potassium (K)	2.2		2520	1900 J		ND	ND
Magnesium (Mg)	0.058		18800	38300		54.1 J	ND
Manganese (Mn)	0.0035	500 (2)	294	786		1.6 J	ND
Sodium (Na)	0.44	20,000 (2)	31600	62400		1030 U	605.900
Nickel (Ni)	0.050	100 (1)	ND	ND		ND	ND
Lead (Pb)	0.0075	15 (1)	5.4 J	ND		ND	ND
Thallium (Tl)	0.0035	2 (1)	ND	ND		ND	ND
Vanadium (V)	0.0065		3.8 J	ND		ND	ND
Zinc (Zn)	0.0095	300 (2)	30.3 U	33.9 J		36.9 U	14.671

Parameters	PQL	Action Levels	Environmental Samples (ug/l)			Field Blanks (ug/l)	Method Blanks (ug/l)
			Field ID 59SW4WG1 Lab ID 664237	Field ID 59SW11WG1 Lab ID 664225	Field ID Lab ID	Equipment Field ID EB112494 Lab ID 664249	Lab ID 673605
Silver (Ag)	0.0080	50 (1)	ND	ND		ND	ND
Aluminum (Al)	0.12		988	216 U		88.3 J	115.060
Arsenic (As)	0.018	25 (2)	ND	4.2 J		ND	ND
Barium (Ba)	0.0040	1000 (2)	84.4 J	344 J		1.8 U	1.451
Beryllium (Be)	0.0025	4 (1)	0.23 J	1.1 J		ND	ND
Calcium (Ca)	1.0		90200	110000		273 U	184.010
Chromium (Cr)	0.019	50 (2)	27.2	ND		ND	ND
Copper (Cu)	0.010	200 (2)	11.6 U	4.5 U		3.7 U	2.895
Iron (Fe)	0.12	300 (2)	2290 J	10400		53.3 U	53.254
Potassium (K)	2.2		2070 J	3490		ND	ND
Magnesium (Mg)	0.058		15800 J	16500		41.0 J	ND
Manganese (Mn)	0.0035	500 (2)	216	2790		ND	ND
Sodium (Na)	0.44	20,000 (2)	40400	28400		830 U	605.900
Nickel (Ni)	0.050	100 (1)	47.5 J	ND		ND	ND
Lead (Pb)	0.0075	15 (1)	8.6	ND		ND	ND
Thallium (Tl)	0.0035	2 (1)	ND U	ND		ND	ND
Vanadium (V)	0.0065		ND	4.2 J		ND	ND
Zinc (Zn)	0.0095	300 (2)	24.3 U	41.5 U		21.2 U	14.671

TABLE 1-12  
AIR FORCE PLANT 59  
GROUNDWATER DATA SUMMARY FOR METALS (SW6010, SW7060, SW7421, SW7470, SW7740, SW7841, SW9012)

Parameters	PQL	Action Levels	Environmental Samples (ug/l)			Field Blanks (ug/l)	Method Blanks(ug/l)
			Field ID 59DW4WG1 Lab ID 664254	Field ID 59DW11WG1 Lab ID 664243	Field ID 59SW11WG9 Lab ID 664231	Equipment Field ID EB112494 Lab ID 664249	Lab ID 673605
Silver (Ag)	0.0080	50 (1)	ND	ND	ND	ND	ND
Aluminum (Al)	0.12		1000	133 U	317 U	88.3 J	115.060
Arsenic (As)	0.018	25 (2)	ND	ND	3.2 J	ND	ND
Barium (Ba)	0.0040	1000 (2)	79.9 J	56.1 J	330 J	1.8 U	1.451
Beryllium (Be)	0.0025	4 (1)	ND	ND	0.34 J	ND	ND
Calcium (Ca)	1.0		138000	133000	109000	273 U	184.010
Chromium (Cr)	0.019	50 (2)	ND	ND	ND	ND	ND
Copper (Cu)	0.010	200 (2)	5.4 U	3.7 U	5.0 U	3.7 U	2.895
Iron (Fe)	0.12	300 (2)	3050 J	272 U	8850	53.3 U	53.254
Potassium (K)	2.2		1890 J	2950	3230	ND	ND
Magnesium (Mg)	0.058		32700 J	35000	16300	41.0 J	ND
Manganese (Mn)	0.0035	500 (2)	678	668	2810	ND	ND
Sodium (Na)	0.44	20,000 (2)	26400	69900	28100	830 U	605.900
Nickel (Ni)	0.050	100 (1)	ND	ND	ND	ND	ND
Lead (Pb)	0.0075	15 (1)	6.0 J	ND	4.8 J	ND	ND
Thallium (Tl)	0.0035	2 (1)	ND	ND	ND	ND	ND
Vanadium (V)	0.0065		3.4 J	ND	ND	ND	ND
Zinc (Zn)	0.0095	300 (2)	25.4 U	26.4 U	26.4 U	21.2 U	14.671

Parameters	PQL	Action Levels	Environmental Samples (ug/l)			Field Blanks (ug/l)	Method Blanks(ug/l)
			Field ID 59DPWWG1 Lab ID 665951	Field ID Lab ID	Field ID Lab ID	Equipment Field ID Lab ID	Lab ID 673605
Silver (Ag)	0.0080	50 (1)	ND				ND
Aluminum (Al)	0.12		106 J				115.060
Arsenic (As)	0.018	25 (2)	ND				ND
Barium (Ba)	0.0040	1000 (2)	87.4 J				1.451
Beryllium (Be)	0.0025	4 (1)	ND				ND
Calcium (Ca)	1.0		135000				184.010
Chromium (Cr)	0.019	50 (2)	ND				ND
Copper (Cu)	0.010	200 (2)	4.1 U				2.895
Iron (Fe)	0.12	300 (2)	284				53.254
Potassium (K)	2.2		1860 J				ND
Magnesium (Mg)	0.058		30100				ND
Manganese (Mn)	0.0035	500 (2)	447				ND
Sodium (Na)	0.44	20,000 (2)	49600				605.900
Nickel (Ni)	0.050	100 (1)	ND				ND
Lead (Pb)	0.0075	15 (1)	1.8 J				ND
Thallium (Tl)	0.0035	2 (1)	46.8				ND
Vanadium (V)	0.0065		ND				ND
Zinc (Zn)	0.0095	300 (2)	31.6 U				14.671

TABLE 1-12  
AIR FORCE PLANT 59  
GROUNDWATER DATA SUMMARY FOR METALS (SW6010, SW7060, SW7421, SW7470, SW7740, SW7841, SW9012)

Parameters	PQL	Action Levels	Environmental Samples (ug/l)			Field Blanks (ug/l)	Method Blanks (ug/l)
			Field ID 591W9WG1 Lab ID 664217	Field ID Lab ID	Field ID Lab ID	Equipment Field ID EB112594 Lab ID 664209	Lab ID 673605
Silver (Ag)	0.0080	50 (1)	ND			ND	ND
Aluminum (Al)	0.12		1420			92.7 J	115.060
Arsenic (As)	0.018	25 (2)	ND			ND	ND
Barium (Ba)	0.0040	1000 (2)	369 J			0.80 U	1.451
Beryllium (Be)	0.0025	4 (1)	ND			ND	ND
Calcium (Ca)	1.0		178000			371 U	184.010
Chromium (Cr)	0.019	50 (2)	ND			ND	ND
Copper (Cu)	0.010	200 (2)	10.3 U			2.9 U	2.895
Iron (Fe)	0.12	300 (2)	1190			71.0 U	53.254
Potassium (K)	2.2		47200			ND	ND
Magnesium (Mg)	0.058		588			27.9 J	ND
Manganese (Mn)	0.0035	500 (2)	85.2			ND	ND
Sodium (Na)	0.44	20,000 (2)	61500			841 U	605.900
Nickel (Ni)	0.050	100 (1)	ND			ND	ND
Lead (Pb)	0.0075	15 (1)	7.6			ND	ND
Thallium (Tl)	0.0035	2 (1)	ND			ND	ND
Vanadium (V)	0.0065		ND			ND	ND
Zinc (Zn)	0.0095	300 (2)	45.3 U			22.2 U	14.671

Parameters	PQL	Action Levels	Environmental Samples (ug/l)			Field Blanks (ug/l)	Method Blanks (ug/l)
			Field ID 59DW3WG1 Lab ID 663235	Field ID 59DW6WG1 Lab ID 663223	Field ID 59DW8WG1 Lab ID 663215	Equipment Field ID EB112194 Lab ID 663228	Lab ID 671511
Silver (Ag)	0.0080	50 (1)	ND	ND	ND	ND	ND
Aluminum (Al)	0.12		117 U	376 U	151 U	118 U	117.280
Arsenic (As)	0.018	25 (2)	ND	11.9 J	ND	ND	ND
Barium (Ba)	0.0040	1000 (2)	222	144	45.5	1.5 U	1.425
Beryllium (Be)	0.0025	4 (1)	ND	ND	ND	ND	0.453
Calcium (Ca)	1.0		138000	86900	148000	516 U	179.890
Chromium (Cr)	0.019	50 (2)	ND	ND	ND	ND	ND
Copper (Cu)	0.010	200 (2)	ND	2.9 U	ND	ND	2.895
Iron (Fe)	0.12	300 (2)	538	923	213 U	53.3 U	53.254
Potassium (K)	2.2		1970 U	6040	2320 U	468 U	520.750
Magnesium (Mg)	0.058		32000	24800	37800	52.0 U	35.111
Manganese (Mn)	0.0035	500 (2)	619	316	669	ND	1.039
Sodium (Na)	0.44	20,000 (2)	42700	25300	94300	993 U	455.670
Nickel (Ni)	0.050	100 (1)	ND	ND	ND	ND	ND
Lead (Pb)	0.0075	15 (1)	ND	3.2 J	ND	ND	ND
Thallium (Tl)	0.0035	2 (1)	ND	ND	ND	ND	ND
Vanadium (V)	0.0065		ND	ND	ND	ND	ND
Zinc (Zn)	0.0095	300 (2)	13.4 U	19.9 U	8.8 U	5.5 U	13.041



TABLE 1-12  
AIR FORCE PLANT 59  
GROUNDWATER DATA SUMMARY FOR METALS (SW6010, SW7060, SW7421, SW7470, SW7740, SW7841, SW9012)

Parameters	PQL	Action Levels	Environmental Samples (ug/l)			Field Blanks (ug/l)	Method Blanks(ug/l)
			Field ID 59SW6WG1 Lab ID 663203	Field ID Lab ID	Field ID Lab ID	Equipment Field ID EB112194 Lab ID 663228	Lab ID 671511
Silver (Ag)	0.0080	50 (1)	ND			ND	ND
Aluminum (Al)	0.12		2470			118 U	117.280
Arsenic (As)	0.018	25 (2)	2.2 J			ND	ND
Barium (Ba)	0.0040	1000 (2)	209			1.5 U	1.425
Beryllium (Be)	0.0025	4 (1)	0.45 U			ND	0.453
Calcium (Ca)	1.0		234000			516 U	179.890
Chromium (Cr)	0.019	50 (2)	9.8 J			ND	ND
Copper (Cu)	0.010	200 (2)	17.0			ND	2.895
Iron (Fe)	0.12	300 (2)	2440			53.3 U	53.254
Potassium (K)	2.2		3580			468 U	520.750
Magnesium (Mg)	0.058		58300			52.0 U	35.111
Manganese (Mn)	0.0035	500 (2)	1220			ND	1.039
Sodium (Na)	0.44	20,000 (2)	60000			993 U	455.670
Nickel (Ni)	0.050	100 (1)	ND			ND	ND
Lead (Pb)	0.0075	15 (1)	35.0			ND	ND
Thallium (Tl)	0.0035	2 (1)	ND			ND	ND
Vanadium (V)	0.0065		ND			ND	ND
Zinc (Zn)	0.0095	300 (2)	42.0 U			5.5 U	13.041

Parameters	PQL	Action Levels	Environmental Samples (ug/l)			Field Blanks (ug/l)	Method Blanks(ug/l)
			Field ID 59DW13WG1 Lab ID 663571	Field ID Lab ID	Field ID Lab ID	Equipment Field ID EB112294 Lab ID 663617	Lab ID 671511
Silver (Ag)	0.0080	50 (1)	ND			ND	ND
Aluminum (Al)	0.12		381 U			113 J	117.280
Arsenic (As)	0.018	25 (2)	ND			ND	ND
Barium (Ba)	0.0040	1000 (2)	172			1.1 U	1.425
Beryllium (Be)	0.0025	4 (1)	0.45 U			ND	0.453
Calcium (Ca)	1.0		135000			469 U	179.890
Chromium (Cr)	0.019	50 (2)	ND			ND	ND
Copper (Cu)	0.010	200 (2)	4.1 U			3.3 U	2.895
Iron (Fe)	0.12	300 (2)	568			71.0 U	53.254
Potassium (K)	2.2		2110 U			ND	520.750
Magnesium (Mg)	0.058		29400			47.4 J	35.111
Manganese (Mn)	0.0035	500 (2)	372			1.6 J	1.039
Sodium (Na)	0.44	20,000 (2)	29800			882 U	455.670
Nickel (Ni)	0.050	100 (1)	ND			ND	ND
Lead (Pb)	0.0075	15 (1)	ND			ND	ND
Thallium (Tl)	0.0035	2 (1)	ND			ND	ND
Vanadium (V)	0.0065		6.0 J			ND	ND
Zinc (Zn)	0.0095	300 (2)	13.4 U			27.1 U	13.041

TABLE 1-12  
AIR FORCE PLANT 59  
GROUNDWATER DATA SUMMARY FOR METALS (SW6010, SW7060, SW7421, SW7470, SW7740, SW7841, SW9012)

Parameters	PQL	Action Levels	Environmental Samples (ug/l)			Field Blanks (ug/l)	Method Blanks(ug/l)
			Field ID 59SW1WG1 Lab ID 660976	Field ID 59SW10WG1 Lab ID 660971	Field ID 59SW12WG1 Lab ID 660959	Equipment Field ID EB1112894 Lab ID 660982	Lab ID 671511
Silver (Ag)	0.0080	50 (1)	ND	ND	ND	ND	ND
Aluminum (Al)	0.12		1260	4350	3400	82.2 U	117.280
Arsenic (As)	0.018	25 (2)	ND	2.8 J	2.6 J	ND	ND
Barium (Ba)	0.0040	1000 (2)	174	339	70.3	1.1 U	1.425
Beryllium (Be)	0.0025	4 (1)	0.91 U	0.60 U	0.26 U	ND	0.453
Calcium (Ca)	1.0		199000	120000	89400	507 U	179.890
Chromium (Cr)	0.019	50 (2)	ND	8.9 J	ND	ND	ND
Copper (Cu)	0.010	200 (2)	17.4	33.1	31.8	2.9 U	2.895
Iron (Fe)	0.12	300 (2)	692	4820	7410	35.5 U	53.254
Potassium (K)	2.2		2500 U	3040	1760 U	451 U	520.750
Magnesium (Mg)	0.058		38500	20100	18000	53.3 U	35.111
Manganese (Mn)	0.0035	500 (2)	720	3940	595	2.4 U	1.039
Sodium (Na)	0.44	20,000 (2)	331000	231000	13900	974 U	455.670
Nickel (Ni)	0.050	100 (1)	ND	21.3 J	ND	ND	ND
Lead (Pb)	0.0075	15 (1)	58.8 J	51.8 J	30.6	ND	ND
Thallium (Tl)	0.0035	2 (1)	ND	ND UJ	ND	ND	ND
Vanadium (V)	0.0065		ND	4.6 J	7.3	ND	ND
Zinc (Zn)	0.0095	300 (2)	31.6 U	48.5 U	31.5 U	18.3 U	13.041

Parameters	PQL	Action Levels	Environmental Samples (ug/l)			Field Blanks (ug/l)	Method Blanks
			Field ID 59SW13WG1 Lab ID 661559	Field ID 59SW5WG1 Lab ID 661561	Field ID Lab ID	Equipment Field ID EB1112994 Lab ID 661560	Lab ID 671511
Silver (Ag)	0.0080	50 (1)	ND	ND		ND	ND
Aluminum (Al)	0.12		3000	5020		81.9 U	117.280
Arsenic (As)	0.018	25 (2)	6.3 J	10.5 J		ND	ND
Barium (Ba)	0.0040	1000 (2)	66.4	161		0.97 U	1.425
Beryllium (Be)	0.0025	4 (1)	0.30 U	0.57 U		ND	0.453
Calcium (Ca)	1.0		183000	165000		302 U	179.890
Chromium (Cr)	0.019	50 (2)	7.8 J	11.8 J		ND	ND
Copper (Cu)	0.010	200 (2)	12.4 U	52.9		ND	2.895
Iron (Fe)	0.12	300 (2)	4360	15300		53.3 U	53.254
Potassium (K)	2.2		4000	2860		ND	520.750
Magnesium (Mg)	0.058		30400	34300		28.8 U	35.111
Manganese (Mn)	0.0035	500 (2)	2460	4000		2.5 U	1.039
Sodium (Na)	0.44	20,000 (2)	59400	84200		811 U	455.670
Nickel (Ni)	0.050	100 (1)	ND	23.2 J		ND	ND
Lead (Pb)	0.0075	15 (1)	28.2	50.4		ND	ND
Thallium (Tl)	0.0035	2 (1)	ND	ND		ND	ND
Vanadium (V)	0.0065		5.3 J	10.9		ND	ND
Zinc (Zn)	0.0095	300 (2)	34.9	90.5 U		4.9 U	13.041

TABLE 1-12  
AIR FORCE PLANT 59  
GROUNDWATER DATA SUMMARY FOR METALS (SW6010, SW7060, SW7421, SW7470, SW7740, SW7841, SW9012)

Parameters	PQL	Action Levels	Environmental Samples (ug/l)			Field Blanks (ug/l)	Method Blanks (ug/l)
			Field ID 59SW8WG1 Lab ID 661563	Field ID 59SW8WG9 Lab ID 661562	Field ID Lab ID	Equipment Field ID EB1112994 Lab ID 661560	Lab ID 671511
Silver (Ag)	0.0080	50 (1)	10.0	ND		ND	ND
Aluminum (Al)	0.12		3480	3050		81.9 U	117.280
Arsenic (As)	0.018	25 (2)	3.1 J	3.9 J		ND	ND
Barium (Ba)	0.0040	1000 (2)	143	131		0.97 U	1.425
Beryllium (Be)	0.0025	4 (1)	0.60 U	0.57 U		ND	0.453
Calcium (Ca)	1.0		125000	108000		302 U	179.890
Chromium (Cr)	0.019	50 (2)	8.7 J	8.3 J		ND	ND
Copper (Cu)	0.010	200 (2)	45.5	38.5		ND	2.895
Iron (Fe)	0.12	300 (2)	6730	8320		53.3 U	53.254
Potassium (K)	2.2		2130 U	2070 U		ND	520.750
Magnesium (Mg)	0.058		26700	21500		28.8 U	35.111
Manganese (Mn)	0.0035	500 (2)	3090	3100		2.5 U	1.039
Sodium (Na)	0.44	20,000 (2)	22700	24500		811 U	455.670
Nickel (Ni)	0.050	100 (1)	ND	ND		ND	ND
Lead (Pb)	0.0075	15 (1)	33.9	79.6		ND	ND
Thallium (Tl)	0.0035	2 (1)	ND	ND		ND	ND
Vanadium (V)	0.0065		10.5	12.4		ND	ND
Zinc (Zn)	0.0095	300 (2)	39.0 U	49.8 U		4.9 U	13.041

Parameters	PQL	Action Levels	Environmental Samples (ug/l)			Field Blanks (ug/l)	Method Blanks (ug/l)
			Field ID 59DW1WG1 Lab ID 662310	Field ID 59DW10WG1 Lab ID 662316	Field ID Lab ID	Equipment Field ID EB1113094 Lab ID 662292	Lab ID 671511
Silver (Ag)	0.0080	50 (1)	ND	ND		36.4	ND
Aluminum (Al)	0.12		113 U	108 U		88.1 U	117.280
Arsenic (As)	0.018	25 (2)	ND	ND		ND	ND
Barium (Ba)	0.0040	1000 (2)	123	68.6		0.85 U	1.425
Beryllium (Be)	0.0025	4 (1)	0.79 U	0.23 U		ND	0.453
Calcium (Ca)	1.0		132000	141000		1010	179.890
Chromium (Cr)	0.019	50 (2)	ND	ND		ND	ND
Copper (Cu)	0.010	200 (2)	ND	ND		ND	2.895
Iron (Fe)	0.12	300 (2)	ND	ND		53.3 U	53.254
Potassium (K)	2.2		1510 U	1950 U		ND	520.750
Magnesium (Mg)	0.058		29200	32200		38.1 U	35.111
Manganese (Mn)	0.0035	500 (2)	1.1 U	93.3		3.5 U	1.039
Sodium (Na)	0.44	20,000 (2)	116000	114000		745 U	455.670
Nickel (Ni)	0.050	100 (1)	ND	ND		ND	ND
Lead (Pb)	0.0075	15 (1)	ND	ND		ND	ND
Thallium (Tl)	0.0035	2 (1)	ND	ND		ND	ND
Vanadium (V)	0.0065		ND	ND		ND	ND
Zinc (Zn)	0.0095	300 (2)	24.8 U	44.7 U		21.2 U	13.041

TABLE 1-12  
AIR FORCE PLANT 59  
GROUNDWATER DATA SUMMARY FOR METALS (SW6010, SW7060, SW7421, SW7470, SW7740, SW7841, SW9012)

Parameters	PQL	Action Levels	Environmental Samples (ug/l)			Field Blanks (ug/l)	Method Blanks (ug/l)
			Field ID 59DW5WG1 Lab ID 662298	Field ID 59SW7WG1 Lab ID 662304	Field ID Lab ID	Equipment Field ID EB1113094 Lab ID 662292	Lab ID 671511
Silver (Ag)	0.0080	50 (1)	ND	ND		36.4	ND
Aluminum (Al)	0.12		285 U	2470		88.1 U	117.280
Arsenic (As)	0.018	25 (2)	ND	3.7 J		ND	ND
Barium (Ba)	0.0040	1000 (2)	84.1	330		0.85 U	1.425
Beryllium (Be)	0.0025	4 (1)	ND	0.38 U		ND	0.453
Calcium (Ca)	1.0		116000	260000		1010	179.890
Chromium (Cr)	0.019	50 (2)	ND	5.8 J		ND	ND
Copper (Cu)	0.010	200 (2)	ND	17.0		ND	2.895
Iron (Fe)	0.12	300 (2)	426	1460		53.3 U	53.254
Potassium (K)	2.2		1670 U	2500 U		ND	520.750
Magnesium (Mg)	0.058		28000	53600		38.1 U	35.111
Manganese (Mn)	0.0035	500 (2)	802	928		3.5 U	1.039
Sodium (Na)	0.44	20,000 (2)	29500	29900		745 U	455.670
Nickel (Ni)	0.050	100 (1)	ND	ND		ND	ND
Lead (Pb)	0.0075	15 (1)	ND	57.0		ND	ND
Thallium (Tl)	0.0035	2 (1)	ND	ND		ND	ND
Vanadium (V)	0.0065		ND	ND		ND	ND
Zinc (Zn)	0.0095	300 (2)	8.2 U	38.8 U		21.2 U	13.041

(1) Federal Primary MCL

(2) NY Groundwater Standard. NYS Standards are from Water Quality Regulations: Surface Water and Groundwater Classifications and Standards, Title 6, Chapter X, 1991

Qualifiers: UJ = Estimated for Non-detect

J = Estimated; U = Blank Contamination

TABLE 1-13  
 AIR FORCE PLANT 59  
 GROUNDWATER DATA SUMMARY FOR PCB/PESTICIDE (SW8080)

Parameters	PQL	Action Levels	Environmental Samples (ug/L)						Field Blanks (ug/L)			Method Blank (ug/L)				
			Field ID 59SW10WG1		Field ID 59SW12WG1		Equipment Field ID EB1112894		Lab ID 660981		Lab ID 661279		IC	2C	PR	
			IC	2C	PR	IC	2C	PR	IC	2C	PR					
Aldrin	0.025		ND		ND		ND		ND		ND					ND
alpha-BHC	0.025		ND		ND		ND		ND		ND					ND
beta-BHC	0.050		ND		ND		ND		ND		ND					ND
delta-BHC	0.0010		ND		ND		0.0017		ND		ND					ND
gamma-BHC (Lindane)	0.025		ND		ND		0.14		ND		ND					ND
Decachlorobipheny (3)	20-150		ND		0.22		ND		ND		ND					0.18
4,4 -DDD	0.050	(2)	ND		ND		ND		ND		ND					ND
4,4 -DDE	0.050	(2)	ND		ND		ND		ND		ND					ND
4,4 -DDT	0.075	(2)	0.0005	0.0035	0.0005	J	0.0007	0.0032	0.0007	J	ND					ND
Dieldrin	0.050	(2)	ND		ND		ND		ND		ND					ND
Endosulfan I	0.025		ND		ND		ND		ND		ND					ND
Endosulfan II	0.025		ND		ND		ND		ND		ND					ND
Endosulfan sulfate	0.025		ND		ND		ND		ND		ND					ND
Endrin	0.050	(2)	ND		ND		ND		ND		ND					ND
Endrin aldehyde	0.075		ND		ND		ND		ND		ND					ND
Heptachlor epoxide	0.050	(1)	ND		ND		ND		ND		ND					ND
Heptachlor	0.025	(2)	0.0008	0.0039	0.0008	J	ND		ND		ND					ND
Methoxychlor	0.025	(2)	35		ND		ND		ND		ND					ND
Tetrachloro-m-xylene (3)	56-140						0.21		0.17							0.16



TABLE 1-13  
AIR FORCE PLANT 59  
GROUNDWATER DATA SUMMARY FOR PCB/PESTICIDE (SW8080)

Parameters	PQL	Action Levels	Environmental Samples (ug/L)						Field Blanks (ug/L)						Method Blank (ug/L)		
			59SW13WG1			59SW5WG1			Equipment			662132					
			IC	2C	PR	IC	2C	PR	IC	2C	PR	IC	2C	PR	IC	2C	PR
Aldrin	0.025				ND					ND					ND		ND
alpha-BHC	0.025				ND					ND					ND		ND
beta-BHC	0.050			0.0053 U						0.0023 U					0.0019 U		0.0037
delta-BHC	0.0010			ND						ND					ND		ND
gamma-BHC (Lindane)	0.025			ND						ND					ND		ND
Decachlorobiphenyl (3)	20-150			0.100						0.16					0.051		0.26
4,4 -DDD	0.050	ND	(2)	0.0013 U						0.0029 U					0.0015 U		0.0016
4,4 -DDE	0.050	ND	(2)	ND						ND					ND		ND
4,4 -DDT	0.075	ND	(2)	0.0011 U						ND					ND		0.0054
Dieldrin	0.050	ND	(2)	0.0008 U						ND					ND		0.0014
Endosulfan I	0.025			0.0014 U						ND					ND		0.0014
Endosulfan II	0.025			0.010 U						ND					0.0032 U		0.0028
Endosulfan sulfate	0.025			0.0083 U						0.0050 U					0.0027 U		0.0078
Endrin	0.050	ND	(2)	0.0062 J						ND					ND		0.0010
Endrin aldehyde	0.075			0.0028 J						ND					ND		ND
Heptachlor epoxide	0.050	0.2	(1)	0.0014 U						0.0018 U					0.0013 J		ND
Heptachlor	0.025	ND	(2)	ND						ND					ND		ND
Methoxychlor	0.025	35	(2)	0.0095 J						0.0031 J					ND		ND
Tetrachloro-m-xylene (3)	56-140			0.19						0.091					0.16		0.26

TABLE I-13  
 AIR FORCE PLANT 59  
 GROUNDWATER DATA SUMMARY FOR PCB/PESTICIDE (SW8080)

Parameters	PQL	Action Levels	Environmental Samples (ug/L)						Field Blanks (ug/L)			Method Blank (ug/L)					
			Field ID 59SW8WG1 Lab ID 661558	2C	PR	Field ID 59SW8WG9 Lab ID 661557	2C	PR	Equipment Field ID EB1112994 Lab ID 661555	2C	PR	IC	2C	PR			
Aldrin	0.025				0.0010 J					ND				ND			ND
alpha-BHC	0.025				ND					ND				ND			ND
beta-BHC	0.050				0.0033 U					ND				0.0019 U			0.0037
delta-BHC	0.0010				ND					ND				ND			ND
gamma-BHC (Lindane)	0.025				0.0043 J					ND				ND			ND
Decachlorobiphenyl(3)	20-150				0.100					0.070				0.051			0.26
4,4 -DDD	0.050	(2)			0.0031 U					0.0011 U				0.0015 U			0.0016
4,4 -DDE	0.050	(2)			ND					ND				ND			ND
4,4 -DDT	0.075	(2)			0.0012 U					ND				ND			0.0054
Dieldrin	0.050	(2)			ND					ND				ND			0.0014
Endosulfan I	0.025				ND					ND				ND			0.0014
Endosulfan II	0.025				0.0022 U					0.0015 U				0.0032 U			0.0028
Endosulfan sulfate	0.025				0.0030 U					ND				0.0027 U			0.0078
Endrin	0.050	(2)			0.0011 U					ND				ND			0.0010
Endrin aldehyde	0.075				0.0014 J					0.0013 J				ND			ND
Heptachlor epoxide	0.050	(1)			0.0008 U					0.0021 U				0.0013 J			ND
Heptachlor	0.025	(2)			ND					0.0022 J				ND			ND
Methoxychlor	0.025	(2)			0.0049 J					ND				ND			ND
Tetrachloro-m-xylene (3)	56-140				0.19					0.18				0.16			0.26



TABLE I-13  
 AIR FORCE PLANT 59  
 GROUNDWATER DATA SUMMARY FOR PCB/PESTICIDE (SW8080)

Parameters	PQL	Action Levels	Environmental Samples (ug/L)						Field Blanks (ug/L)						Method Blank (ug/L)		
			59DW10WGI			59DW1WGI			Equipment			Lab ID			662909 R1		
			IC	2C	PR	IC	2C	PR	IC	2C	PR	IC	2C	PR	IC	2C	PR
Aldrin	0.025		0.0008	J	0.0014	0.0016	0.0014	J	0.0014	J	0.0014	J	0.0014	J	ND	ND	
alpha-BHC	0.025		ND		0.0014	0.0016	0.0014	J	0.0014	J	0.0014	J	0.0014	J	ND	ND	
beta-BHC	0.050		0.0027	J	0.0014	0.0016	0.0014	J	0.0014	J	0.0014	J	0.0014	J	ND	ND	
delta-BHC	0.0010		ND		0.0014	0.0016	0.0014	J	0.0014	J	0.0014	J	0.0014	J	ND	ND	
gamma-BHC (Lindane)	0.025		0.0016	U	0.0042	0.0035	0.0042	J	0.0035	J	0.0035	J	0.0035	J	0.0019	0.0019	
Decachlorobiphenyl(3)	20-150		0.11		0.0042	0.0035	0.0042	J	0.0035	J	0.0035	J	0.0035	J	0.0005	0.0005	
4,4 -DDD	0.050	(2)	0.0020	U	0.0042	0.0035	0.0042	J	0.0035	J	0.0035	J	0.0035	J	0.0005	0.0005	
4,4 -DDE	0.050	(2)	ND		0.0042	0.0035	0.0042	J	0.0035	J	0.0035	J	0.0035	J	0.0005	0.0005	
4,4 -DDT	0.075	(2)	ND		0.0042	0.0035	0.0042	J	0.0035	J	0.0035	J	0.0035	J	0.0005	0.0005	
Dieldrin	0.050	(2)	ND		0.0042	0.0035	0.0042	J	0.0035	J	0.0035	J	0.0035	J	0.0005	0.0005	
Endosulfan I	0.025		ND		0.0042	0.0035	0.0042	J	0.0035	J	0.0035	J	0.0035	J	0.0005	0.0005	
Endosulfan II	0.025		ND		0.0042	0.0035	0.0042	J	0.0035	J	0.0035	J	0.0035	J	0.0005	0.0005	
Endosulfan sulfate	0.025		ND		0.0042	0.0035	0.0042	J	0.0035	J	0.0035	J	0.0035	J	0.0005	0.0005	
Endrin	0.050	(2)	ND		0.0042	0.0035	0.0042	J	0.0035	J	0.0035	J	0.0035	J	0.0005	0.0005	
Endrin aldehyde	0.075		ND		0.0042	0.0035	0.0042	J	0.0035	J	0.0035	J	0.0035	J	0.0005	0.0005	
Heptachlor epoxide	0.050	(1)	ND		0.0042	0.0035	0.0042	J	0.0035	J	0.0035	J	0.0035	J	0.0005	0.0005	
Heptachlor	0.025	(2)	ND		0.0042	0.0035	0.0042	J	0.0035	J	0.0035	J	0.0035	J	0.0005	0.0005	
Methoxychlor	0.025	(2)	ND		0.0042	0.0035	0.0042	J	0.0035	J	0.0035	J	0.0035	J	0.0005	0.0005	
Tetrachloro-m-xylene(3)	56-140		0.17		0.0042	0.0035	0.0042	J	0.0035	J	0.0035	J	0.0035	J	0.0005	0.0005	

TABLE I-13  
 AIR FORCE PLANT 59  
 GROUNDWATER DATA SUMMARY FOR PCB/PESTICIDE (SW8080)

Parameters	PQL	Action Levels	Environmental Samples (ug/L)					Field Blanks (ug/L)					Method Blank (ug/L)													
			Field ID 59DW5WG1 Lab ID 662297	IC	2C	PR	Field ID 59SW7WG1 Lab ID 662303	IC	2C	PR	Equipment Field ID EB1113094 Lab ID 662291	IC	2C	PR	Lab ID 662909 R1	IC	2C	PR								
Aldrin	0.025		0.067	0.0051	0.0051	J	0.0015	0.0080	0.0015	J	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	ND	ND	ND	0.0019	0.0005	0.0005	0.091	
alpha-BHC	0.025						0.012	0.010	0.010	J										ND	ND	ND				0.0009
beta-BHC	0.050																			ND	ND	ND				0.0005
delta-BHC	0.0010						0.0027	0.0037	0.0027	J										ND	ND	ND				0.0005
gamma-BHC (Lindane)	0.025																			0.078	0.078	0.078				0.0005
Decachlorobiphenyl (3)	20-150																			0.018	0.018	0.018				0.0005
4,4 -DDD	0.050	(2)	0.080	0.021	0.021	U	0.0012	0.0023	0.0012	U										0.14	0.14	0.14				0.0005
4,4 -DDE	0.050	(2)																		0.023	0.023	0.023				0.0005
4,4 -DDT	0.075	(2)																								0.061
Dieldrin	0.050	(2)																								0.0005
Endosulfan I	0.025																									0.0005
Endosulfan II	0.025																									0.0005
Endosulfan sulfate	0.025																			0.023	0.023	0.023				0.0005
Endrin	0.050	(2)																								0.0005
Endrin aldehyde	0.075																									0.0021
Heptachlor epoxide	0.050	(1)																								0.0021
Heptachlor	0.025	(2)																								0.0025
Methoxychlor	0.025	(2)	0.23	0.015	0.015	U	0.0041	0.0016	0.0041	U										0.100	0.100	0.100				0.0025
Tetrachloro-m-xylene (3)	56-140	(2)																								0.019

TABLE I-13  
 AIR FORCE PLANT 59  
 GROUNDWATER DATA SUMMARY FOR PCB/PESTICIDE (SW8080)

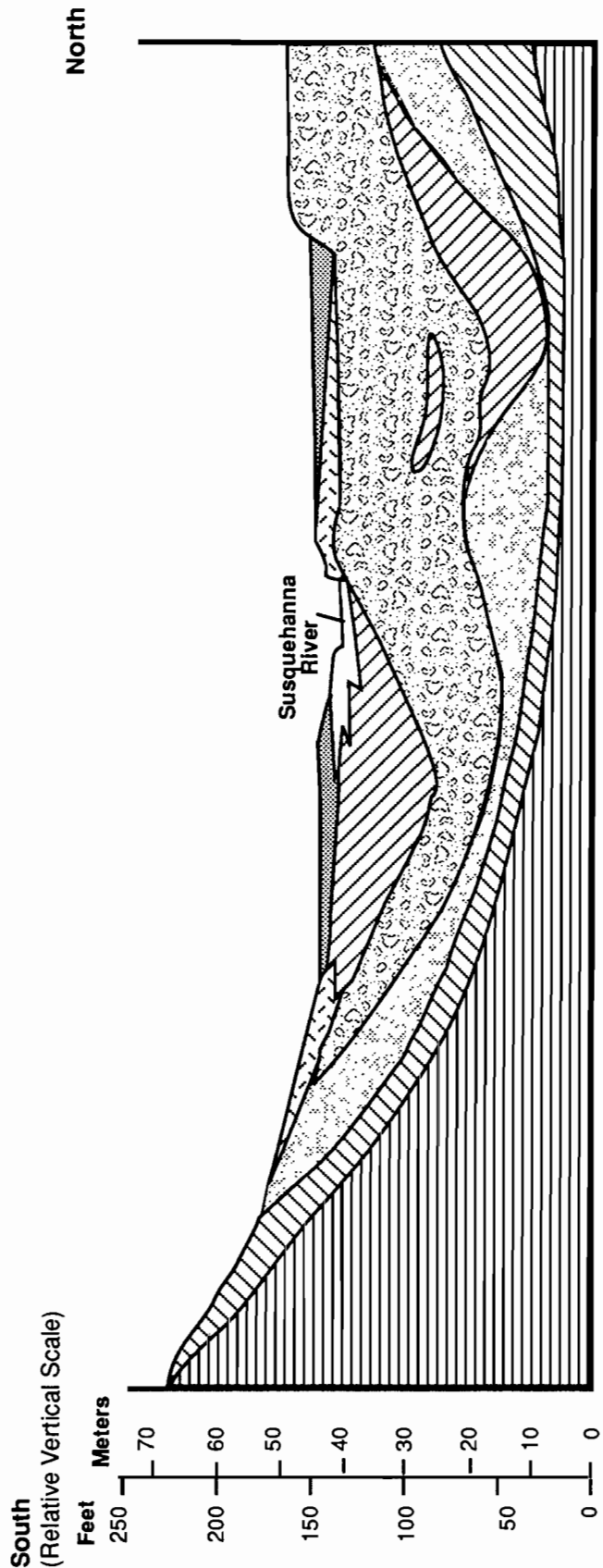
Parameters	PQL	Action Levels	Environmental Samples (ug/L)						Field Blanks (ug/L)			Method Blank (ug/L)		
			59DW3WG1 Lab ID 663232			59DW6WG1 Lab ID 663221			Equipment Field ID EB112194 Lab ID 663227			Lab ID 664108		
			IC	2C	PR	IC	2C	PR	IC	2C	PR	IC	2C	PR
Aldrin	0.025		0.0022	0.043	0.0022	U	0.0008	0.0016	ND	0.0014	J			ND
alpha-BHC	0.025		0.044	0.0026	0.0026	J	0.039	0.0089	0.0008	J	ND	ND		ND
beta-BHC	0.050		0.046	0.0061	0.0061	J	0.043	0.0016	0.0089	J	ND	ND		ND
delta-BHC	0.0010		0.0022	0.0055	0.0022	U	0.0058	0.0015	0.0016	U	0.0034	U		ND
gamma-BHC (Lindane)	0.025		0.0005	0.0040	0.0005	U		0.0015	0.0015	U	0.073			0.0024
Decachlorobiphenyl (3)	20-150				0.18				0.16					0.19
4,4 -DDD	0.050	(2)	0.0015	0.026	0.0015	U	0.013	0.0032	ND	U	0.0023	J		ND
4,4 -DDE	0.050	(2)			ND		0.017	0.013	0.0032	U	0.0013	U		ND
4,4 -DDT	0.075	(2)	0.0049	0.012	0.0049	U	0.011	0.020	0.013	J	0.0018	J		ND
Dieldrin	0.050	(2)	0.0039	0.0080	0.0039	U	0.0008	0.0093	0.020	U	0.0042	U		0.0019
Endosulfan I	0.025		0.0005	0.0044	0.0005	U			0.0093	U	0.0008	J		ND
Endosulfan II	0.025				ND				ND	U	ND			ND
Endosulfan sulfate	0.025		0.0037	0.36	0.0037	U	0.0020	0.0055	0.0020	U	0.0015	U		0.0014
Endrin	0.050	(2)	0.0005	0.017	0.0005	U			ND	U	0.0034	U		0.0031
Endrin aldehyde	0.075				ND		0.0011	0.0045	0.0011	U	0.0014	J		ND
Heptachlor epoxide	0.050	(1)	0.016	0.0018	0.0018	J	0.0052	0.0048	0.0048	J	ND	U		ND
Heptachlor	0.025	(2)	0.0013	0.0075	0.0013	U	0.0058	0.0021	0.0021	U	0.0022	U		0.0008
Methoxychlor	0.025	(2)	0.20	0.023	0.023	J	0.016	0.012	0.012	J	ND			ND
Tetrachloro-m-xylene (3)	56-140				0.17			0.012	0.21		0.21			0.20

TABLE I-13  
 AIR FORCE PLANT 59  
 GROUNDWATER DATA SUMMARY FOR PCB/PESTICIDE (SW8080)

Parameters	Action Levels	Environmental Samples (ug/L)						Field Blanks (ug/L)									
		Field ID 59DW8WG1 Lab ID 663213	IC	2C	PR	Field ID 59SW6WG1 Lab ID 663201	IC	2C	PR	Equipment Field ID EB112194 Lab ID 663227	IC	2C	PR	Method Blank (ug/L)			
Aldrin	PQL																
alpha-BHC	0.025				ND				ND					0.0014	J		ND
beta-BHC	0.025				ND				ND					ND			ND
delta-BHC	0.050				ND				ND					ND			ND
gamma-BHC (Lindane)	0.0010	0.022	0.011	0.011	J	0.0034	0.0032	0.0032	0.0032					ND	U		ND
Decachlorobiphenyl (3)	0.025				0.19				0.095					0.0034	U		0.0024
4,4 -DDD	20-150				ND				ND					0.073			0.19
4,4 -DDE	0.050	0.0008	0.0022	0.0008	U				ND					0.0023	J		ND
4,4 -DDT	0.075				ND				ND					0.0013	U		0.0016
Dieldrin	0.050				ND				ND					0.0018	J		ND
Endosulfan I	0.025	0.0010	0.010	0.0010	U	0.0003	0.0099	0.0038	0.0003	U				0.0042	U		0.0019
Endosulfan II	0.025				ND	0.011	0.0038	0.0038	0.0038	U				0.0008	J		ND
Endosulfan sulfate	0.025	0.0016	0.096	0.0016	U	0.0017	0.0037	0.0037	0.0017	U				ND			ND
Endrin	0.050				ND				ND					0.0015	U		0.0014
Endrin aldehyde	0.075				ND				ND					0.0034	U		0.0031
Heptachlor epoxide	0.050				ND				ND					0.0014	J		ND
Heptachlor	0.025	0.0041	0.013	0.0041	U				ND					ND	U		ND
Methoxychlor	0.025				ND				ND					0.0022	U		0.0008
Tetrachloro-m-xylene (3)	56-140				0.21				0.20					0.21			0.20

Although contaminants have been identified in the soil at AFP 59, the surface is almost completely covered by the plant and surrounding parking lots. Therefore, no complete air migration pathway exists under most circumstances.

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**Explanation**

- Fill Material
- Recent Alluvium
- Older Alluvium
- Glacial Outwash Deposits
- Lakebed Deposits
- Ice Contact Deposits
- Till
- Shale & Siltstone Bedrock

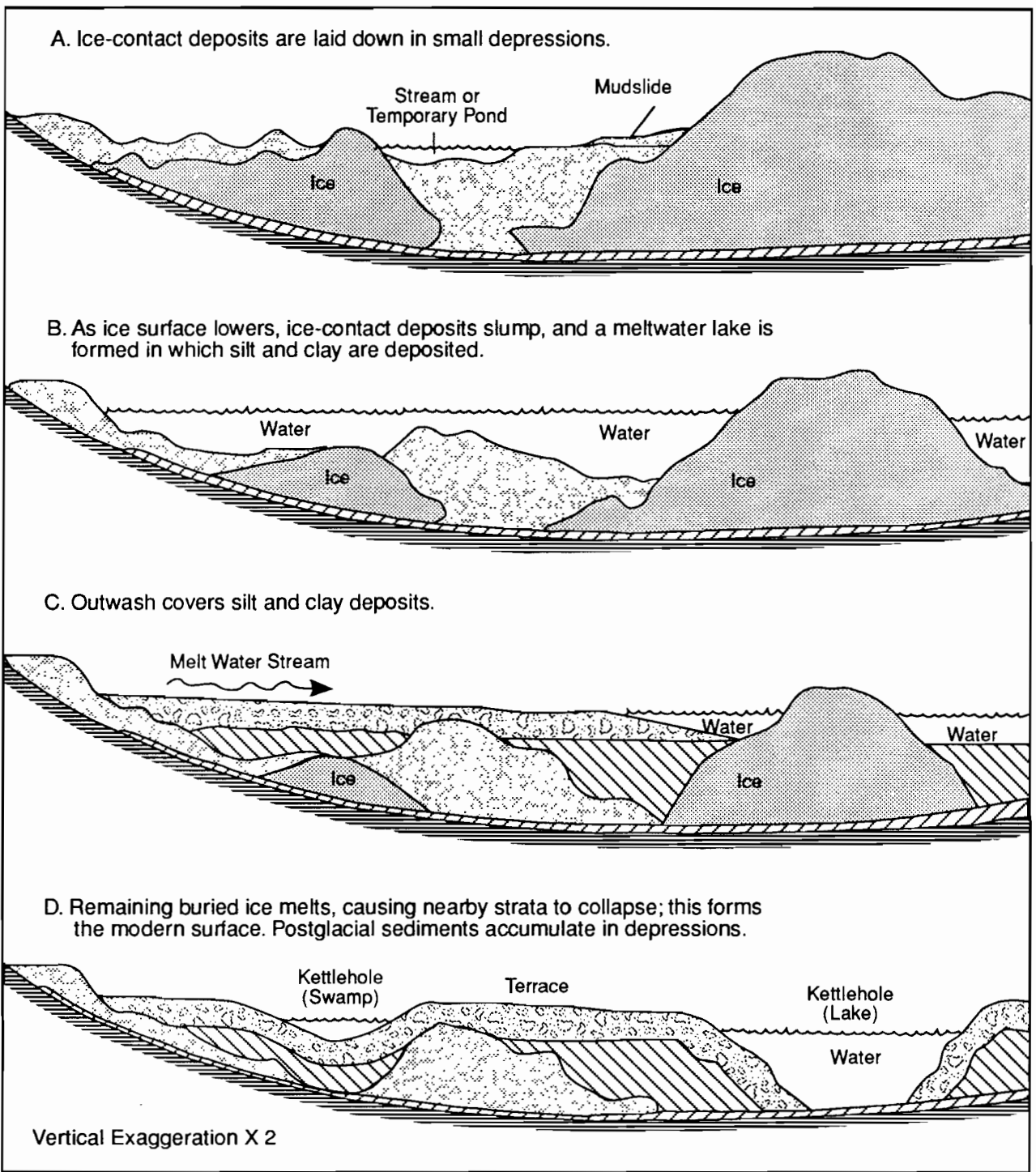
EARTH T E C H **FIGURE 3-1**

**Idealized Geologic Cross-Section in the Vicinity of AFP59**

From: NYSDEC Bulletin 73, 1977






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GF/AFP-59/RIFS/fig 2-5

**Explanation**

-  Glacial Outwash Deposits
-  Lakebed Deposits
-  Ice-Contact Deposits
-  Glacial Till
-  Shale Bedrock

From: USGS Water-Resources Investigations Report 85-4099

	<p><b>FIGURE 3-2</b></p>
<p><b>Sequence of Stratified-Drift Deposition During Deglaciation</b></p>	

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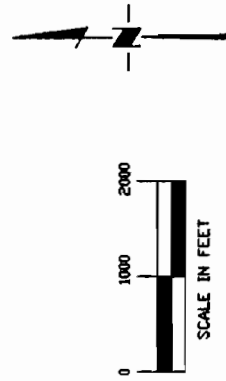


**LEGEND**

- A1 - Ice-contact Deposits Along Valley Walls
- A2 - Unsaturated Glacial Outwash Overlying Ice-contact Deposits
- A5 - Glacial Outwash Overlying Ice-contact Deposits
- B - Postglacial Lakebeds
- C - Glacial Outwash Overlying Glacial Lakebeds
- D2 - Alluvial Fans of Tributary System
- D3 - Alluvium of Susquehanna River
- MT - Morainial Till

NOTE: Areas without labels represent Till.

Source: USGS Water Resources Investigations Report 85-4099



**EARTH TECH** **FIGURE 3-3**

**SURFICIAL GEOLOGY  
IN THE VICINITY OF AFP 59**

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The background air quality or air attainment status at AFP 59 is designated by the county in which it is located (Broome County, New York). Based on a June 1993 report which studied AFP 59's cost of compliance with the 1990 Clean Air Act Amendments, it was determined that AFP 59 is located in an O<sub>3</sub> transportation region. This means that AFP 59 must comply with the same restrictions as a moderate nonattainment area for O<sub>3</sub> (PRC Environmental Management, Inc., 1993). The report also indicated that AFP 59 did not meet any of the criteria of a major source as defined by the Clean Air Act Amendments of 1990 (PRC, 1993). USEPA regulations designating areas for air quality planning are given in 40 Code of Federal Regulation (CFR) 81. The Broome County area had the following designations: Total Suspended Particulate - better than national standards; CO - unclassifiable/attainment; Lead - not designated; and NO<sub>2</sub> - cannot be classified or better than national standards (40 CFR 81, 1991).

Mean annual precipitation recorded in the vicinity of AFP 59 is 36.7 inches per year. The greatest average monthly precipitation occurs in June and July, and the least in February. For the most part, precipitation is evenly distributed throughout the year. Snowfall accounts for a large portion of the total precipitation during the winter months, with an annual average of about 85 inches at the Broome County airport. Mean annual lake evaporation, commonly used to estimate the mean annual evapotranspiration rate, is estimated to be 28 inches per year. Evapotranspiration over land areas may be greater or less than lake evaporation depending on the amount and type of vegetation and the availability of moisture. Mean annual net precipitation (mean annual precipitation minus mean annual evapotranspiration) is approximately 9 inches per year (CH2M Hill, 1984).

The climate in the area is typically humid maritime with mild summers and long, cold winters. The average annual temperature for nearby Binghamton is 46°F. Monthly mean temperatures vary from 22°F in January to 70°F in July (ISMCS, 1990). The average daily minimum temperature in January is 15°F while the average daily maximum temperature in July is 79°F. Freezing temperatures occur at Binghamton on the average of 147 days per year. The prevailing wind direction is west-southwest. Monthly mean temperature, precipitation, and wind speeds are presented in Table 3-2.

### 3.3 Air Pathway

Potential use of Little Choconut Creek waters is restricted to recreational activities, including wading and fishing. Shallow depths of the creek, typically less than 1 foot, limit the potential for swimming in the creek.

Although flow in Little Choconut Creek is seasonal, flow is also influenced by industrial stormwater and wastewater discharge. Industrial discharge along the course of the creek, including the AFP 59 outfalls, makes a quantitative evaluation of creek flow and recharge to the aquifer difficult. Any municipal stormwater discharge to the creek would further complicate the flow characteristics of Little Choconut Creek.

along a flow line divided by the distance between the two points. A hydraulic gradient of 0.003 for the deep zone of the aquifer was calculated from the potentiometric map created using December 1994 groundwater elevation data from the deep wells (see Figure 3-15). An estimated effective porosity of 0.35 was used based on the geology of the ice-contact deposits. Given an average hydraulic conductivity of 454.97 ft/day, a hydraulic gradient of 0.003, and an effective porosity of 0.35, the estimated groundwater velocity at the site is 3.9 ft/day.

### 3.2 Surface Water Pathway

Two surface water bodies are within 1,000 feet of AFP 59, Little Choconut Creek and the Susquehanna River (see Figure 3-12). Little Choconut Creek borders the plant to the east and south. The creek flows to the west and converges with the Susquehanna River approximately 1,000 feet west of the southwest corner of the plant. The course of the northern branch of Little Choconut Creek was dramatically altered during the development of shopping malls in the area. The course of the creek has also been altered south of the plant; sometime between 1935 and 1968 the creek was moved north, most likely to accommodate trestle construction for the railroad. Little Choconut Creek is considered waters of the state by the U.S. Army Corps of Engineers for purposes of permitting under Section 404 of the Clean Water Act. The U.S. Fish and Wildlife Service classifies the stream as an upper perennial riverine wetland with unconsolidated bottom which is permanently flooded. In addition, there are areas of palustrine forested wetlands on islands and along the margins of the Susquehanna River downstream from its confluence with Little Choconut Creek.

No municipal users of surface water have been reported within 3 miles downstream of AFP 59 (CH2M Hill, 1984). The City of Binghamton is the nearest municipal user of water from the Susquehanna River, and the surface water intakes are approximately 5 miles upstream of AFP 59.

As discussed in Section 3.1.2.2, both Little Choconut Creek and the Susquehanna River have become losing streams in the area since the installation of the Camden Street Wellfield. Consequently, surface water from the creek infiltrates down to recharge the aquifer rather than groundwater from the aquifer recharging the creek. Therefore, any site-derived contamination migrating through the groundwater pathway would be unlikely to impact Little Choconut Creek. Additionally, because groundwater within the zone of influence of the Camden Street Wellfield discharges to well #2, including induced infiltration from the Susquehanna River, the Susquehanna River is also isolated from site-derived contamination.

Surface runoff and storm water drainage patterns at AFP 59 are shown in Figure 3-22. Surface water from a large part of the southern portion of the plant discharges into Little Choconut Creek south of the plant through two permitted outfalls (001 and 002). A pump located on the flood control structure allows discharge during flood conditions. Much of the surface water from the hazardous waste storage areas, the back loading dock, and the work areas of the plant flows through a drain with an oil/water separator prior to discharge to Outfall 002. Non-contact cooling water drawn from the onsite production well (see Section 3.1.2.2) is discharged via Outfall 003.

Determination of the aquifer hydraulic conductivity was discussed previously (see Table 3-1). The hydraulic gradient represents the difference in groundwater elevation between two points

Where:

$$K = \text{Hydraulic Conductivity}$$

$$i = \text{Hydraulic Gradient}$$

$$= \text{Effective Porosity}$$

$$V = Ki/n_e$$

Based on groundwater elevations measured in December 1994 and the results of the pumping test analysis, a groundwater flow velocity has been calculated for the site. The groundwater seepage velocity, representing the travel speed of a particle of water, is estimated by Darcy's equation:

The distance-drawdown plot presented in Figure 3-21 defines two straight-line trends in the data from which values of transmissivity have been calculated. Although distance-drawdown data typically result in only one linear trend, the complex subsurface geology at AFP 59 may explain the presence of the two trends. The fact that two linear trends exist suggests that site transmissivity varies over a range of values. The similarity of the distance-drawdown (2,527 to 6,824 ft<sup>2</sup>/day) and time-drawdown (8,151 ft<sup>2</sup>/day average value) transmissivity values support the results of the analyses. Additionally, the radius of influence of the production well when pumping 145 gpm is between 925 and 1,400 feet based on the distance-drawdown data. The radius of influence, as determined from distance-drawdown data, is equal to the value of the intercept of the line defining the trend in the data with the zero drawdown axis.

Distance-drawdown analysis of the pumping test data was also conducted to determine aquifer transmissivity and the radius of influence of pumping, and also to verify results from the time-drawdown analysis. The corrected drawdown measured at the conclusion of the drawdown phase of the pumping test in ten wells was plotted versus the radial distance from the production well on a semi-log plot (Figure 3-21). Wells DW1, MW-2D and MW-3D were not included due to inadequate drawdown data.

In addition to the nine deep wells analyzed using the leaky aquifer solution, SW10 and DW10 were analyzed using AQTESOLV's Theis solution for unconfined aquifers since no fine-grained glacial deposits are present at these locations. The time-drawdown curves are presented in Appendix E, and the results are summarized in Table 3-1. The transmissivity and storativity values are comparable to regional values, and the hydraulic conductivity values are comparable to both regional and site values.

parameter to use in the comparison of data sets because it is not a function of saturated thickness as is transmissivity. Consequently, it is a function of a unit's ability to transmit water, regardless of aquifer thickness. Hydraulic conductivities at AFP 59 range from approximately 40 to 2,000 ft/day as compared to about 200 to 2,000 ft/day for reported regional conductivity values (URS, 1992). Therefore, when differences in saturated thickness are accounted for, site and regional hydraulic properties compare closely.

time-drawdown curves demonstrated a more consistent fit with the type curves generated from the leaky aquifer solution which does not take into account aquifer storage. Therefore, this solution was utilized in the analysis of the pumping test data collected from most monitoring wells.

Because no fine-grained glacial deposits are present in the northeast portion of the property, SW10 and DW10 were analyzed using the Theis unconfined aquifer solution. Data from SW1 and DW1 were not analyzed because they were too scattered to define time-drawdown curves which could be analyzed, and also because no data were available to account for the rising groundwater elevation trend related to the rise of the Susquehanna River. Results from the unconfined solutions follow the discussion of the leaky aquifer solutions.

Time-drawdown data from all deep monitoring wells located onsite (except DW1) were analyzed. Data from the deep wells located offsite were not analyzed because the response to pumping was not strong enough to generate adequate drawdown at these wells.

With the exception of SW10, data from the shallow wells were not analyzed because of the hydraulic separation that exists between the shallow and deep zones of the aquifer. Any drawdown recorded in the shallow zone of the aquifer is the result of leakage through the fine-grained deposits to the deep zone of the aquifer due to pumping of the production well. Therefore, because drawdown is related to pumping in the deep zone and not the shallow zone of the aquifer, the drawdown in the shallow zone could not be analyzed to determine aquifer parameters.

The transmissivities and storativities computed by the AQTESOLV program are summarized in Table 3-1. Transmissivity values for the leaky aquifer solutions ranged from 696 to 20,434 ft<sup>2</sup>/day, with an average value of 8,151 ft<sup>2</sup>/day. Storativity values ranged from  $9.5 \times 10^{-5}$  to  $1.0 \times 10^{-3}$ , with an average value of  $8.2 \times 10^{-4}$ . Hydraulic conductivity values were calculated for each well by dividing the transmissivity value by the saturated thickness of the aquifer at the well location. Hydraulic conductivities and saturated thicknesses are included in Table 3-1.

Transmissivity values calculated at AFP 59 are lower in general than the 10,000 to 50,000 ft<sup>2</sup>/day range reported for the aquifer on a regional basis (URS, 1992). The lower values may be attributed to the subsurface geology at the site, which includes many locations where the thickness of the lower zone of the aquifer (the ice-contact deposits) is very thin, thereby limiting transmissivity values. In addition, the regional range of transmissivity values is based on the assumption that the fine-grained glacial deposits are intermittent on a regional basis, and therefore the aquifer may be treated regionally as a continuous aquifer rather than two discrete zones. At AFP 59, however, the aquifer is treated as a zoned aquifer because of the presence of the fine-grained glacial deposits over the majority of the site. Consequently, saturated thicknesses used in the calculation of regional transmissivities are greater than those used for site transmissivities, resulting in higher regional transmissivity values.

Comparison of site and regional hydraulic conductivities support the fact that greater saturated thicknesses resulted in higher regional transmissivities. Hydraulic conductivity is a more suitable



Groundwater flow directions presented in Figure 3-17 show the development of a groundwater divide under pumping conditions along the western property boundary of AFP 59. Groundwater east of the divide is drawn to the production well, while groundwater west of the divide flows to the Camden Street Wellfield. The majority of groundwater flow along the southern portion of the site, including groundwater west of the production well, is captured by the production well when it is in operation. Groundwater flow in the northern portion of the site is impacted by the production well, but most groundwater will continue offsite to the Camden Street Wellfield.

Figures 3-18 and 3-19 display hydrographs which plot groundwater elevation versus radial distance from the production well for four monitoring wells and the city well, all of which lie west of the production well along a roughly east-west trend. Figure 3-18, showing pre-pumping test data, defines the hydraulic gradient west of the production well under static aquifer conditions (i.e. no production wells in the area are in operation other than well #2 at the Camden Street Wellfield). Figure 3-19, showing elevations at the conclusion of the pumping test, illustrates how pumping of the production well creates a groundwater divide on the western edge of the site near DW3.

To monitor the depth of water in Little Choconut Creek during the pumping test, a bubbler Portable Flow Meter (Model #4230) from Isco, Inc. was placed in the creek as close as possible to due south of the production well. This position was chosen because it represents the closest point in the creek to the production well, where any response to pumping would presumably be greatest. The creek was monitored continuously at 15 minute intervals from 2.5 hours before the pumping test began to 12 hours after the recovery test began. The depth of water data recorded by the flow meter are presented in Appendix C. Depth of water data, shown in Figure 3-20, display a linear decrease in the depth of Little Choconut Creek over the period monitored. Creek levels were high prior to the pumping test due to precipitation in the area, and steadily decreased during the test. In addition, the data show no response to the production well being turned on or off. Therefore, the data indicate that pumping of the production well does not impact flow in Little Choconut Creek.

**Aquifer Test Analysis.** Prior to analysis of the pumping test data, the data were corrected for the rising trend in groundwater elevations attributed to the rise in the Susquehanna River stage. Similar corrections were required for the pumping test data collected during the 1992 Contaminant Source Investigation conducted by URS (URS, 1992). For the RI pumping test data, the rate of groundwater rise was calculated for each well, with rates ranging from  $1 \times 10^{-5}$  to  $3 \times 10^{-4}$  ft/min. The rate of rise calculated for each well was then subtracted from the observed drawdown data to arrive at the corrected drawdown data used in the pumping test analysis.

The corrected drawdown data were analyzed using the Geraghty and Miller software package AQTESOLV. Based on time-drawdown curves generated from the data (see Appendix E) and the subsurface geology at the site, the majority of the data were initially analyzed using two different solutions for leaky aquifers: one which accounts for storage from the aquitard (the fine-grained glacial deposits) and one that does not account for aquitard storage. Examination of the

grained glacial deposits at those locations. The fact that monitoring wells SW4, SW7, SW12 and SW13 do respond to pumping, even though fine-grained glacial deposits are present at these locations, indicates that the two zones of the aquifer are not hydraulically isolated. Leakage from the shallow zone to the deep zone of the aquifer through the fine-grained glacial deposits would be expected to be greatest in proximity to the pumping well. SW1 and SW10 also responded to pumping; however, because fine-grained glacial deposits are not present in the northeast portion of the property, responses were anticipated at SW1 and SW10.

The depth to water versus elapsed time hydrographs (Appendix D) were also used to evaluate a rising trend in groundwater elevations noted prior to the pumping test and in data collected late in the recovery test. This trend is attributed to the rise in the Susquehanna River stage of approximately 6 feet which occurred during the 24-hour period preceding the pumping test. Studies by the USGS (1986 and 1994, in prep.) have shown a direct correlation between rises in the Susquehanna River stage and rises in groundwater elevations as measured in monitoring wells in the region. Corrections made to the drawdown data to account for the rising trend in groundwater elevations are discussed in the Aquifer Test Analysis section.

The groundwater contour maps shown in Figures 3-16 and 3-17 were created to assess groundwater flow under pumping conditions. These maps were created by using data collected immediately prior to the conclusion of the pumping test (i.e., maximum drawdown). A comparison of groundwater elevations in the shallow and deep wells at each monitoring well cluster shows the vertical component of groundwater flow to be downward across most of the site under the conditions defining this pumping test. Monitoring well cluster 5 was the only cluster displaying higher elevations in the deep well, indicating there was a slight upward component of flow at this well cluster. Elevations in the shallow and deep wells at well clusters 1, 6, and 10 differ by less than 0.17 feet, implying a weak vertical component of flow at these locations.

Figure 3-16 displays the potentiometric surface and groundwater flow directions in the shallow zone of the aquifer under pumping conditions. The contours in the vicinity of the production well show the impact of pumping on the shallow zone of the aquifer. The general groundwater flow direction remains westerly to southwestward; however, flow lines are deflected toward the production well as a result of pumping. Although flow lines and the hydraulic gradient of the shallow zone of the aquifer are slightly altered, no groundwater divide is created in the shallow zone of the aquifer. Therefore, very little water from the shallow zone of the aquifer is captured through pumping of the production well at the flow rate and duration of this pumping test. The downward component of vertical flow created during pumping does result in some leakage through the fine-grained glacial deposits from the shallow zone to the deep zone of the aquifer.

Figure 3-17 displays the potentiometric surface and groundwater flow directions in the deep zone of the aquifer under pumping conditions. The impact of pumping is clearly evident, with concentric contours defining the potentiometric surface around the production well. The hydraulic gradient is skewed in the vicinity of the production well, with the gradient being steeper upward and gentler downward of the production well. This skewing of the hydraulic gradient is the result of the regional southwesterly groundwater flow direction.

Hydrogeology Under Pumping Conditions. To evaluate hydraulic properties of the aquifer at AFP 59, a 24-hour pumping test was completed at the site on December 6 and 7, followed by a 24-hour recovery test on December 7 and 8. The goals of the pumping and recovery test included defining aquifer parameters (i.e. transmissivity, storativity, hydraulic gradient, groundwater flow rate), determining the degree of hydraulic connection between the shallow and deep zones of the aquifer, and determining the impact of pumping on Little Chocount Creek. The onsite production well was pumped at a rate of approximately 145 gallons per minute (gpm) to stress the aquifer. The desired maximum flow rate of approximately 320 gpm could not be achieved because flow was diverted through 2-inch piping in order to pass through a newly installed water meter. Groundwater level data were collected at all onsite and several offsite monitoring wells. The offsite wells included the following NYSDEC wells: MW-2S, MW-2D, MW-3D, MW-7S, MW-8I and MW-9S. Water level data were also collected from a fixed location in Little Chocount Creek using a portable water level meter and datalogger.

Groundwater level data were collected either through the use of dataloggers and pressure transducers or by hand using an electric water level meter. Three different dataloggers were used to record transducer data, including: 1) a Hermit datalogger at SW11/DW11; 2) Telog dataloggers at SW12/DW12 and SW13/IW13/DW13; and 3) CR10 dataloggers at SW3/DW3, SW4/DW4, SW6/DW6, SW7, and SW9/IW9/DW9. The remainder of the onsite and offsite water levels were obtained and recorded manually. The groundwater level data for each well are presented in Appendix C.

For each monitoring well, a hydrograph was created plotting depth to water versus elapsed time to evaluate the impact of the pumping on the aquifer. These hydrographs are contained in Appendix D. The wells can be separated into two groups based on whether or not they were impacted by pumping. Those wells that responded to pumping include: all deep wells with the possible exception of the offsite well MW-3D; shallow wells located within 300 feet of the production well (SW4, SW7, SW12 and SW13); and SW1 and SW10, both of which are in the northeast portion of the property where no fine-grained glacial deposits exist. The remainder of the data from the shallow wells did not indicate an impact to the aquifer as a result of the pumping.

Response of the aquifer monitored by the deep wells to pumping reflected the conditions that could be expected given the subsurface geology in the vicinity of AFP 59. All deep wells are screened in the deep zone of the aquifer at similar depths to the production well. Therefore, all deep wells are located in a zone of the aquifer that is hydraulically connected to the production well zone, and a response was anticipated. The fact that there was little or no response at MW-3D, which is located approximately 1,075 feet from the production well and only about 399 feet from Camden Street Wellfield well #2, suggests that pumping at well #2 may mask the impact of pumping at the production well at MW-3D.

Response of the aquifer observed in the shallow wells to pumping indicates that the fine-grained glacial deposits represent a significant barrier to vertical groundwater flow over the majority of the site. Most of the shallow wells indicated no response to pumping (see Appendix D), showing that the shallow and deep zones of the aquifer are hydraulically separated by the fine-

southeastern portion of the site. This groundwater feature is not recorded in the August data, although the groundwater elevation at SW8 is 1.31 feet higher than the groundwater elevation at DW8. The mounding may be related to precipitation in the area during early December.

In addition to defining groundwater flow patterns within the aquifer, the groundwater elevation data were used to evaluate the following: 1) vertical flow between the shallow and deep zones of the aquifer; 2) the hydraulic connection between the aquifer and Little Chocanut Creek; and 3) fluctuations in groundwater elevations at the site.

Vertical groundwater flow between the two aquifer zones was evaluated by comparing groundwater elevations in the shallow and deep monitoring wells at each well cluster. Groundwater elevations from the August and December data indicate that, under static aquifer conditions, the vertical component of groundwater flow at AFP 59 is generally upward. This is indicated by higher groundwater elevations in the deep wells at monitoring well clusters 3, 5, 6, 12 and 13. Monitoring well clusters 1, 4, 9, and 10 display very similar groundwater elevations, suggesting a weak component of vertical groundwater flow. This was expected at SW1/DW1 and SW10/DW10 due to the absence of the fine-grained glacial deposits at these locations. SW8/DW8 and SW11/DW11, located in the southeastern corner of the site, record shallow well groundwater levels up to 3.96 feet higher in elevation than the deep wells in December. As stated previously, the shallow well groundwater elevations may be related to infiltration of precipitation and may not represent typical static conditions.

Since the installation of the Camden Street Wellfield and the associated pumping-induced lowering of the groundwater table, both Little Chocanut Creek and the Susquehanna River have become losing streams in the region. As shown in Figures 3-14 and 3-15, the potentiometric surface of both the shallow and deep zones of the aquifer are lower in elevation than the surface of the Little Chocanut Creek bed. Consequently, rather than groundwater from the aquifer recharging the creek (gaining stream), surface water from the creek infiltrates down to recharge the aquifer (losing stream).

Figures 3-12 through 3-15 also allow a temporal evaluation of fluctuations in the groundwater elevations. Comparison of the two sets of data indicate that groundwater elevations at AFP 59 were approximately 2 to 3 feet higher in August than in December. Large-scale fluctuations in groundwater elevations are related to several factors, including: 1) precipitation and infiltration in a region, which varies seasonally; 2) elevations of large bodies of surface water; and, 3) pumping conditions within an aquifer. Under static conditions, the third factor remains constant and will not impact groundwater elevations. Infiltration of precipitation on a region will impact groundwater elevations, although quantitative predictions of the impact are difficult. The final factor, elevation fluctuations of large bodies of surface water and how they impact aquifer elevations, is easier to predict by comparing groundwater elevations in monitoring wells with river stage as measured at gaging stations. Studies conducted by the United States Geological Survey (USGS) in 1986 and 1994 (in preparation) show a direct correlation between the Susquehanna River stage and groundwater elevations in the vicinity of AFP 59. The impact of the Susquehanna River stage on groundwater elevations at AFP 59 are discussed further in the following section.

of the aquifer. SW1/DW1 and SW10/DW10 are located in the northeast portion of the site where the fine-grained glacial deposits are absent. The shallow and deep wells at these locations monitor hydrogeologic conditions at different depths within a continuous aquifer, with shallow wells monitoring the water table and deep wells monitoring the base of the aquifer immediately above till.

An industrial production well (DPW) used intermittently to obtain non-contact cooling water is located on the AFP 59 property (see Figure 3-4). The capacity of the industrial production well is approximately 320 gpm. Monthly pumping rates supplied for the period May 1993 to May 1994 indicate that May through August were the peak pumping months, with rates ranging from 279,000 to 406,000 gallons per day (gpd), and an average rate of 360,000 gpd. Although the pump was inoperable from late September to late January of the reported period, pumping for cooling purposes is typically not necessary during the winter months. This is illustrated by the fact that no pumping occurred in February, and the rate for March averaged only about 4,000 gpd.

In May 1994, a chemical treatment system was installed at AFP 59 to reduce the volume of water required for cooling purposes. As a result, since May 1994, pumping of the production well has been limited to an average of approximately 39,000 gpd. This average value includes a 5-week period in September and early October 1994 during which the average rate exceeded 213,000 gpd. Excluding this peak pumping period, the average rate since May 1994 is only about 5,000 gpd.

**Hydrogeology Under Static Aquifer Conditions.** Since pumping records from the Camden Street Wellfield indicate that water supply well #2 is consistently pumped at approximately 3 million gallons per day (mgd), static aquifer conditions are assumed to exist when only this well is in operation. If another production well in the vicinity of AFP 59, including the production well at AFP 59, is in operation, the aquifer is considered to be under non-static conditions.

Static aquifer conditions have been evaluated through the use of groundwater contour maps generated from groundwater level data collected from monitoring wells in the vicinity of AFP 59. The groundwater contour map displayed in Figure 3-11 shows the aquifer response to pumping at the Camden Street Wellfield in 1967. The potentiometric surface and groundwater flow directions indicate that groundwater flow is radial towards the wellfield in the vicinity of AFP 59, and that flow is generally in a westerly direction beneath AFP 59. Comparison of the 1967 groundwater data (Figure 3-11) and the August 1994 groundwater data (Figures 3-12 and 3-13) indicates very similar groundwater flow patterns in the region.

Groundwater level data collected on December 6, 1994, immediately prior to the pumping test conducted at the site, were used to generate the groundwater contour maps shown in Figures 3-14 and 3-15. The potentiometric surface and groundwater flow directions in the two zones of the aquifer compare very closely to those from the August 1994 data. The maps from both sets of data display a general westerly flow direction in both the shallow and deep zones of the aquifer, with flow becoming southwesterly on the western side of the site. The December data also show a mounding of the potentiometric surface measured in the shallow wells in the

municipal and industrial production wells. The potentiometric surface has been lowered by as much as 23 feet in the Clinton Street-Ballpark Aquifer, causing the channels of Little Chocconut Creek and the Susquehanna and Chenango Rivers to lie above the potentiometric surface (NYSDEC, 1977).

Today, sources of recharge to the aquifer include precipitation, infiltration from streams, runoff from upland areas, and underflow from adjacent aquifers (URS, 1992). Induced infiltration from the Susquehanna and Chenango Rivers resulting from high-volume pumping at wells is also a significant source of recharge to the aquifer. Based on water level and pumping information at the Camden Street Wellfield, the percentage of induced infiltration to total volume pumped at the wellfield is 57 percent (NYSDEC, 1977). Evidence for induced infiltration from streams has been documented based on the following (NYSDEC, 1977): 1) the presence of coliform bacteria in a municipal well located several miles west of Johnson City; 2) groundwater temperatures in the aquifer near rivers fluctuate from 1°C to 22°C, while groundwater temperatures in deeper portions of the aquifer remain steady at 11°C; and 3) the aquifer is more mineralized in deeper portions of the aquifer than in portions of the aquifer near rivers where infiltration from river water occurs.

**3.1.2.2 Site Hydrogeology.** The hydrogeologic conditions at AFP 59 have been evaluated primarily through groundwater elevation data obtained from monitoring wells located at and adjacent to the site. The following sections discuss the site hydrogeology as interpreted from data collected under static aquifer conditions and data collected during a pumping test conducted at the site. The complex, heterogeneous subsurface geology at the site makes interpretation of hydrogeologic data difficult. As discussed in Section 3.1.1.2, the lithology and thickness of the units vary greatly across the site. Hydraulic heterogeneities related to the subsurface geology exist throughout the aquifer and are difficult to quantify in an evaluation of the hydrogeologic system at the site.

AFP 59 is located on the western edge of the Clinton Street-Ballpark Aquifer. Where present, the fine-grained glacial deposits separate the aquifer into a deep zone comprised of ice-contact deposits and a shallow zone comprised of glacial outwash deposits. Where absent, ice-contact and glacial outwash deposits are in direct hydraulic contact with one another, and no zonation of the aquifer exists. As discussed in Section 3.1.1.2, the fine-grained glacial deposits pinch out beneath the plant and are absent in the northeast portion of the property.

Hydrogeologic conditions at AFP 59 were evaluated through data obtained from the 13 monitoring well clusters located across the site, in addition to several NYSDEC wells located west of the site (see Figure 3-4). Each AFP 59 monitoring well cluster consists of a deep well and a shallow well. Additionally, intermediate wells are installed at monitoring well locations 9 and 13.

Of the 13 monitoring well clusters, all but SW1/DW1 and SW10/DW10 are located in areas where fine-grained glacial deposits divide the aquifer into two zones. Where two zones are present, the shallow wells monitor water table hydrogeologic conditions in the shallow zone of the aquifer while the deep wells monitor hydrogeologic conditions above till in the deep zone

zone of the aquifer is comprised of ice-contact deposits. Section 3.1.1.2 describes these deposits in detail.

**Groundwater Use and Well Inventory.** Groundwater from the Clinton Street-Ballpark Aquifer is used for municipal and industrial purposes. Figure 3-10 displays the locations of observation wells and municipal and industrial production wells in the vicinity of AFP 59. In 1985, the USEPA designated the aquifer as a sole-source aquifer under the Safe Drinking Water Act (50 Federal Register 2025, (January 14, 1985). To be designated as a sole-source aquifer the act requires: 1) the aquifer to be the sole or principal drinking water source in the area; and 2) that contamination of the aquifer would create a significant public health hazard. The Clinton Street-Ballpark Aquifer serves approximately 128,000 people in the communities of Johnson City, Endicott, Nichols, Owego, Vestal, and Waverly.

The Johnson City Water Department maintains seven deep production wells (Wells #1 through #7) that supply potable water to the Village of Johnson City as well as to a portion of the Town of Union which lies north of the village (URS, 1992). Three of the Johnson City Water Department municipal production wells are located southwest of AFP 59 at the Camden Street Wellfield (see Figure 3-10), and one municipal production well is located northeast of AFP 59. The overall capacity of the seven production wells is 4.0 million gallons per day.

**Aquifer Characteristics.** The Clinton Street-Ballpark Aquifer ranges in thickness from 80 to 180 feet and covers an area of approximately 3 square miles. Transmissivity of the aquifer generally ranges from 10,000 ft<sup>2</sup>/day to 50,000 ft<sup>2</sup>/day and may reach values of 100,000 ft<sup>2</sup>/day in certain areas (URS, 1992).

Figure 3-11 presents a regional groundwater flow net of the aquifer for October 6, 1967. Groundwater flow lines point in the direction of production wells that were in operation on or around October 6, 1967 (NYSDEC, 1977). Historic potentiometric surface maps portraying the groundwater flow directions prior to high volume pumping of the Clinton Street-Ballpark Aquifer have not been found. Therefore, no information is available on groundwater flow directions without the influence of production wells.

Figures 3-12 and 3-13 show potentiometric maps of the shallow and deep zones of the aquifer in the vicinity of AFP 59 that were created from groundwater level data collected in August 1994. The maps display very similar groundwater flow directions to those of the 1967 data, and also illustrate the impact of pumping at the Camden Street Wellfield. In addition, the August 1994 data show that groundwater flow patterns and response to pumping at the Camden Street Wellfield are similar in the shallow and deep zones of the aquifer.

**Aquifer Discharge and Recharge.** Prior to large-scale groundwater development, the Clinton Street-Ballpark Aquifer received water from precipitation and discharged groundwater into the Susquehanna and Chenango Rivers and their tributaries. Since the 1940s, the aquifer has been heavily used for the Johnson City public water supply and for industrial purposes. Studies have shown that groundwater no longer discharges into the Susquehanna and Chenango Rivers (NYSDEC, 1977 and USGS, 1986). Instead, groundwater is discharged through pumped

to 64 feet in the northeast corner of the property. The variable thickness of the unit is illustrated in the geologic cross-sections.

Glacial till, consisting of dark gray, highly compacted, unsorted silt, clay, sand and gravel, was encountered between 78 and 90 feet below ground surface (bgs) in the four deep monitoring well boreholes drilled during the RI. Geological information presented in the Supplemental Site Investigation conducted by Argonne National Laboratory (1994) indicates that the maximum known depth to glacial till at the site is 98 feet bgs in the northeastern corner of the property.

Bedrock was not encountered during drilling at any of the 13 onsite monitoring well locations. Therefore, thickness of the glacial till and depth to bedrock are unknown. However, sampling during the RI indicates a minimum till thickness of 5 to 6 feet at the deep well locations. In addition, New York Department of Transportation borings located adjacent to monitoring well DW1 indicate that till and bedrock were intersected at 98 and 110 feet bgs, respectively (ANL, 1994).

### **3.1.2 Hydrogeology**

This section describes the regional and site hydrogeologic environment, illustrating the relationship between geology and hydrogeology.

**3.1.2.1 Regional Hydrogeology.** Numerous hydrogeological studies have been conducted in the Susquehanna River basin in the vicinity of Johnson City and Binghamton, New York. The following sections summarize aquifer characteristics described in these studies (NYSDEC, 1977; CH2M Hill, 1984; USGS, 1986; Hart, 1988; URS, 1992; and ANL, 1994).

**Bedrock Aquifer.** Groundwater is present in bedrock but generally provides limited quantities of water. Typically, wells completed in bedrock average less than 10 gpm. However, some bedrock wells that are completed several hundred feet deep into the bedrock have yielded 100 to 300 gpm (ANL, 1994). The bedrock aquifer is generally considered a limited groundwater source.

**Clinton Street-Ballpark Aquifer.** The Clinton Street-Ballpark Aquifer is a highly productive aquifer, yielding 400 to 2,290 gpm, that underlies 3 square miles within the Greater Binghamton area (CH2M Hill, 1984). It is associated with the Endicott-Johnson City Aquifer, but due to boundary conditions is considered a separate aquifer. The Clinton Street-Ballpark Aquifer's boundaries are: impermeable bedrock to the north, glacial till and impermeable bedrock to the south, the Chenango River to the east, and the Susquehanna River to the southwest (Figure 3-9). AFP 59 is located on the western edge of the aquifer.

The formations that make up the Clinton Street-Ballpark Aquifer are the glacial outwash deposits and the underlying ice-contact deposits, with occurrences of fine-grained glacial deposits that may locally restrict vertical groundwater movement. The aquifer is locally separated into two zones (shallow and deep) in areas where the fine-grained glacial deposits are present. In general, the shallow zone of the aquifer is comprised of glacial outwash deposits and the deep



east-west across the southern portion of the site, and continues offsite west of AFP 59 to include the New York State Department of Conservation (NYSDEC) monitoring wells MW-2D and MW-3D.

The local glacial and postglacial stratigraphy is depicted in the geologic cross-sections (Figures 3-5, 3-6 and 3-7). The stratigraphy generally consists of 2 to 5 feet of artificial fill, 3 to 34 feet of glacial outwash deposits, 0 to 54 feet of fine-grained glacial deposits, and 15 to 64 feet of ice-contact deposits. As illustrated in cross-section B-B', the fine-grained glacial deposits are not present in the northeast portion of the site where glacial outwash deposits are in direct contact with ice-contact deposits. A thin layer of fine-grained alluvium overlies the glacial outwash deposits on the eastern portion of the site (cross-sections B-B' and C-C').

The glacial outwash deposits are composed of brown, fine to coarse sand and gravel. The thicknesses of the deposits range from less than 5 feet at DW11 to approximately 34 feet at DW3, DW9 and DW13. The glacial outwash is thinnest in the southeast corner of the property (see cross-sections B-B' and C-C') where the unit is overlain by approximately 10 feet of alluvium and underlain by approximately 50 feet of fine-grained deposits. Field sieve analyses of the glacial outwash from DW12 and DW13 conducted during the RI classify the samples as coarse sand and gravel, with less than 20 percent of the grains being finer than medium sand. A sample from a finer-grained interval (20 to 22 feet bgs) within the glacial outwash at DW10 was classified as fine sand with about 20 percent fines.

The lithology of the fine-grained glacial deposits, consisting of gray, very fine sand and silt with 5 to 15 percent clay, is very consistent across the site. A field sieve analysis conducted on a sample from the fine-grained glacial deposits classifies the sample as 84 percent very fine sand, silt and clay, and 16 percent sand. The thickness of the unit, however, varies greatly across the site. Figure 3-8, an isopach map of the fine-grained deposits, shows total thickness of the unit to be greatest in the southeast corner of the site. As illustrated in the geologic cross-sections and the isopach map, the fine-grained glacial deposits are present at most well locations, with the exceptions being SW1/DW1 and SW10/DW10 in the northeast corner of the property. It appears as though the unit pinches out to the northeast beneath the plant, as interpreted in cross-section B-B'. Glacial outwash and ice-contact deposits are in direct contact only in the northeast corner of the site.

The ice-contact deposits display a high degree of heterogeneity throughout the site. Lithology ranges from brown, coarse sand and gravel in the northeast corner of the property, to gray, interbedded fine to coarse sand and very fine sand and silt. Field sieve analyses completed on samples of the ice-contact deposits from DW10 and DW12 classify the unit as fine to coarse sand with between 10 and 34 percent fines. No sieve analyses were completed on ice-contact deposits at DW11 and DW13 because of the interbedded nature of the unit at these locations. However, the very fine sand and silt content was approximately 50 percent at these locations based on the geologic borehole logs (Appendix B). In places the lithologic contact between the ice-contact deposits and the overlying fine-grained glacial deposits was not distinct, and the contact was assigned to the depth at which fine to coarse sand was first encountered. The thickness of the ice-contact deposits varies from 15 feet in the southeast corner of the property

**Glacial Outwash.** Glacial outwash deposits are composed of 10 to 40 feet of sandy-pebble gravel and pebbly coarse- to fine-grained sand. Trace to moderate amounts of highly calcareous silts are also present. In some areas, the thickness of this deposit reaches 100 feet. The material for the coarse sediments was derived from the Chenango Valley and has been termed "bright" because 20 to 40 percent of these materials are colorful.

**Fine-Grained Glacial Deposits.** Fine-grained glacial deposits are composed of silt, silty clay, and silty-fine sand and may be a significant barrier to vertical groundwater flow. The thickness of the fine-grained glacial deposits varies from 0 to 80 feet. The deposits, generally interpreted as glacial lakebed deposits, typically occur as lenses of limited areal extent; however, extensive deposits are present west of Johnson City. Fine-grained glacial deposits typically overlie ice-contact deposits, but have been found in some areas to interfinger with or overlie glacial outwash deposits.

**Ice-Contact Deposits.** Ice-contact deposits in the Susquehanna River Valley are composed of sandy pebble to cobble gravel and pebbly sand with slight to abundant quantities of silt. The thickness of the ice-contact deposits varies from 0 to 100 feet. The ice-contact deposits are locally overlain by either glacial lakebed deposits or outwash deposits. The coarse sediments were derived from local olive-gray colored bedrock; therefore, the term "drab" has been applied.

**Glacial Till.** The glacial till deposits are the oldest formation above bedrock and were deposited directly by glacial ice. These deposits range from 1 to 2 feet thick on steep slopes and are tens of feet thick beneath hillsides. The glacial till is a tough, compact, unsorted silt, clay, sand, and gravel.

**Bedrock.** Shales and siltstones make up the bedrock material that underlies the glacial deposits throughout southern New York. These strata originated from the uplift of the Appalachian Range during the Acadian Orogeny (Devonian Period, 345 to 410 million years ago), with the clastic source area lying to the east. Large volumes of sediment eroded from the uplifted area and were deposited in a shallow oceanic environment lying to the west of the growing mountain range. These sediments accumulated to form a thick sequence now known as the Catskill Clastic Wedge. Subsequent uplifting from a later orogenic event exposed the clastic bedrock to erosional forces, shaping the material to preglaciation form.

**3.1.1.2 Site Geology.** The subsurface geology at AFP 59 has been characterized through the evaluation of geologic borehole logs from monitoring wells and soil borings located across the site. The monitoring well construction and geologic logs of monitoring wells and soil borings completed during the RI are presented in Appendix B.

The subsurface geology at AFP 59 generally consists of approximately 75 to 100 feet of stratified, unconsolidated glacial deposits overlying shale and siltstone bedrock. Three geologic cross-sections depicting the complex subsurface stratigraphy at the site were created based on monitoring well borehole logs. Figure 3-4 shows the locations of each cross-section. Cross-sections A-A' and B-B' (Figures 3-5 and 3-6) run approximately north-south along the western and eastern sides of the site, respectively. Cross-section C-C' (Figure 3-7) runs approximately

coarse-grained sediments that were interspersed with silt. Masses of debris slumped down into the ponds from adjacent slopes. These early deposits were derived from local bedrock (olive-gray shale and siltstone) and have been historically termed "drab". As the meltwater drainage system extended north, the presence of pebbles derived from distant regions increased. These first stratified deposits are called ice-contact deposits because they were laid down on top of ice. Thicknesses of the ice-contact deposits range from a few feet in places to between 50 and 100 feet locally. The thicker deposits tend to occur as "belts parallel to the valley axes" (USGS, 1986).

As the ice surface lowered due to melting, the ice-contact deposits began to slump, and in some areas meltwater lakes were created. Fine-grained sediments composed of very fine sand, silt, and clay settled in the lakes on top of the ice-contact deposits. The meltwater streams then began to deposit coarse sand and gravel (outwash) originating from the Chenango Valley on top of the fine-grained lake sediments in broad stream channels and deltas. These outwash deposits have historically been termed "bright" because the gravel is derived from colorful, more distant bedrock. The outwash deposits covered practically the entire width of the Susquehanna Valley, with thicknesses ranging from 10 to 100 feet.

When the buried ice blocks finally melted, the overlying deposits sagged and formed depressions called kettleholes. Sediments have been accumulating in these depressions for 15,000 years (USGS, 1986). Kettleholes that are near rivers have been filled primarily with silt, with occurrences of coarse-grained sediments derived from floods. Remote kettleholes formed peat swamps. Many kettleholes have been filled by man with trash and debris.

The most recent deposits in the area are alluvial fan and floodplain deposits that formed in post-glacial streams and rivers. Silt, fine sand, and gravel make up these deposits.

The lithologic units found in the Susquehanna River basin are described in detail below in order from youngest to oldest. Figure 3-3 shows the surficial geology in the vicinity of AFP 59.

**Fill.** The fill is composed of garbage and ashes in addition to some natural sand and gravel deposits. The fill has been placed into natural and excavated depressions at thicknesses of 5 to 20 feet.

**Alluvium.** Alluvium occurs as floodplain deposits and alluvial fans. The floodplain deposits consist of approximately 15 feet of silt to fine sand that commonly overlie and are interbedded with 10 to 15 feet of a non-calcareous sandy pebble-cobble gravel. The alluvial fans are composed of 10 to 20 feet of silty, non-calcareous gravel. In some locations, older alluvial deposits interfinger with post-glacial lakebeds.

**Postglacial Lakebeds.** Postglacial lakebeds formed in kettleholes and are scattered throughout the area. Water entering into the lakes from bordering streams and flood episodes deposited very fine sand, silt and clay. Sediment thicknesses in some postglacial lakebeds have been measured to be as much as 80 feet.

# SECTION 3.0

## POTENTIAL MIGRATION PATHWAYS

The following sections evaluate the potential groundwater, surface water and air migration pathways for contaminant transport. Each potential migration pathway will be evaluated based on relevant environmental characteristics. The potential migration pathways from the source areas identified in Section 2.0 will not be addressed separately since the source areas are in close proximity to one another with similar environmental characteristics at each area. The migration pathways discussed below apply to the entire southern zone of AFP 59.

### 3.1 Groundwater Pathway

Geologic and hydrogeologic information gathered during the RI and previous investigations has been integrated to evaluate the potential groundwater migration pathway.

#### 3.1.1 Geology

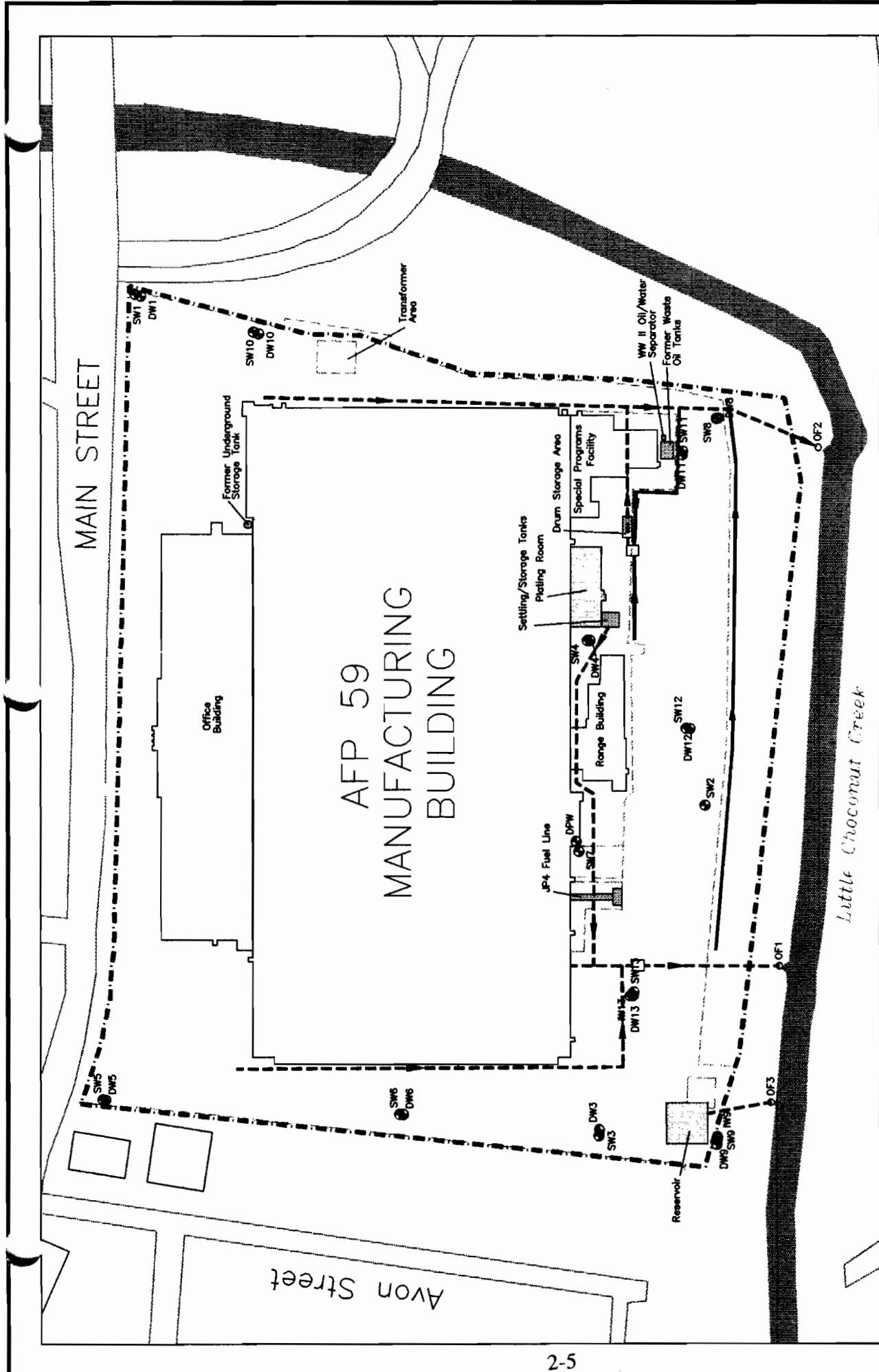
This section describes the regional and site geological setting, including both glacial and bedrock geology.

**3.1.1.1 Regional Geology.** Numerous geological studies have been conducted in the Susquehanna River basin in the vicinity of Johnson City and Binghamton, New York. The following section describes regional characteristics obtained from the NYSDEC Bulletin 73 (NYSDEC, 1977) and the USGS Water-Resources Investigations Report 85-4099 (USGS, 1986).

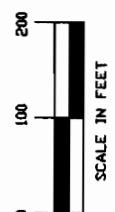
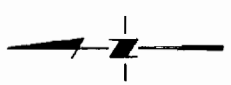
The Susquehanna River basin and vicinity is underlain by Pleistocene-age glacial deposits consisting of sand, gravel, silt, and clay. These deposits began forming approximately 18,000 years ago when the area was covered by glaciers. Figure 3-1 is an idealized cross-section that illustrates the geology in the vicinity of AFP 59.

An idealized diagram showing the sequence of stratified-drift deposition during deglaciation is provided in Figure 3-2. The advancing ice sheet widened stream- formed valleys and scoured the land surface, depositing glacial till. A warming climate caused ice in the uplands to melt rapidly while the valleys remained clogged with ice. The first stratified deposits began to form when meltwater from the uplands carried sediment to the valleys, depositing their sediment load on top of melting ice. Meltwater ponds formed as the ice melted and were rapidly filled with

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**FIGURE 2-1**  
**POTENTIAL SOURCE LOCATIONS**



- LEGEND**
- Storm Water Conduit
  - Drainage Channel
  - AFP 59 Property Boundary
  - - - Fence
  - DW3 - AFP 59 Monitoring Well
  - - Potential Source Area

potential source of soil contamination in this area. A 275-gallon diesel fuel AST, installed in 1943, is also present at the reservoir to fuel the emergency backup generator. The generator powers the backup water pumps which supply water for the emergency water systems.

An underground pipeline leading from two 1,500-gallon ASTs containing JP-4 fuel to the Manufacturing Building is also present in the southwest portion of the property (see Figure 2-1). The fuel was used to test various aviation components. The tanks remain half full and are currently inactive.

The extent of contaminated soil in the vicinity of the reservoir is discussed in Section 1.3.1 and could be related to leaks of contaminated groundwater or other, unknown sources (i.e., undocumented spills). Both TCE and TCA were detected in the soil at shallow depths (1 to 7 feet bgs).

The storage tank and settling pond are located adjacent to the southwestern corner of the plating room. The plating waste storage tank is an open-top, in-ground rectangular tank. The walls of the tanks are approximately 8 feet high. The tank is constructed of concrete with an inner layer of acid brick and a fiberglass inner liner. The storage tank stored spent plating liquids before removal by an outside disposal contractor. Burnite was also stored in the tank from December 1990 to June 1991. Use of the storage tank was discontinued in June 1991 (USAF, 1993).

The settling pond is a brick-lined, open-top, in-ground tank. From 1952 to 1969, plating rinsewater was discharged to the settling tank for metals precipitation and then discharged to Little Choconut Creek via Outfall 001. Between 1969 and 1984, ferrous sulfate was added to the plating rinsewaters before entering the settling tank to reduce hexavalent chromium to trivalent chromium and precipitate the metals. The treated rinsewater was discharged to the creek via Outfall 001. The precipitate was periodically transferred to the adjoining storage tank for subsequent removal and disposal by a contractor.

In July 1984, a new plating rinsewater treatment and reuse system was installed. The plating rinsewater then passed through the settling tank and grease trap, and was treated by anion and cation exchange columns. It was then stored in an underground tank for reuse. The brine generated during this process was placed in the storage tank and removed from the site by a contractor. In 1988, the treatment system became contaminated, and the system was abandoned. From 1988 to 1991, plating rinsewater was discharged into the sanitary sewer. Plating operations were discontinued in 1991, and the storage and settling tanks have not been used since. The tanks are currently undergoing a NYSDEC-coordinated closure.

The drum storage area is located in the maintenance area south of the plating room (see Figure 2-1). The site has been used as a drum storage area from 1942 to the present. Waste paints, waste oils, and spent kerosene-based degreasers were stored at this area prior to offsite disposal by an outside contractor. The site is a less-than-90-day storage area. In 1963, the top 8 inches of soil was removed from the drum storage area, and the site was paved (USAF, 1993). Employees reported spills prior to the paving in 1963. The pavement was updated in late 1970.

The extent of contaminated soil identified during the RI and closure-related sampling conducted by Martin Marietta is discussed in Section 1.3.1. Contaminated soil is present beneath the plating room and adjacent to the storage tank and settling pond; the soil could have been impacted by spills or leaks at either of these areas. TCE contamination of the soil in this area was detected most frequently at shallow depths (less than 7 feet bgs). Other chlorinated compounds detected include TCA, PCE, and dichlorodifluoromethane.

**Reservoir Area.** Contaminated soil was also identified in the southwestern portion of the plant (see Figures 1-4 through 1-6). No existing IRP sites are present in this area, and no known previous storage or disposal activities have occurred in this area. A 500,000-gallon water reservoir is located in this area (see Figure 2-1). The water level in the reservoir is maintained by pumping groundwater from the onsite production well directly to the reservoir. Chlorinated hydrocarbons have been detected in groundwater samples collected from the production well. Leaks of contaminated groundwater from the reservoir and/or associated piping system are a



from the site. However, a tank removal report confirming this information has not been located by EARTH TECH.

A 3,000-gallon, double-walled, aboveground storage tank (AST) was installed approximately 30 feet west of the former waste oil UST location to replace the USTs. A rain shield covered diking system of 3,500 gallon capacity was installed with the AST. All associated piping was aboveground, and the tank and piping were located on a paved, asphalt surface. From 1985 to 1992, waste oils were collected in the aboveground tank and removed from the site by a contractor. In July 1992, the AST was drained, 2,400 pounds of sludge was removed, and the tank was steam cleaned three times. The sludge was analyzed for disposal characterization and 1,1,1-TCA was detected. Four soil samples were collected as part of the AST closure and BTEX and other VOCs were below NYSDEC TAG soil cleanup objectives. The AST was certified closed clean by the NYSDEC on February 2, 1994.

A former oil/water separator is also located near the Special Programs Facility (see Figure 2-1). Waste oils and kerosene-based degreasing solvents were discharged to the oil/water separator from 1942 to 1953. Effluent from the separator was discharged to the storm sewer system that emptied into Little Choconut Creek via Outfall 002. In the 1970s, the separator was filled with sand and capped with concrete (USAF, 1993).

Contaminated soil in the vicinity of the waste oil tanks was identified during the RI (see Section 1.3.1). The soil could have been impacted by either spills or leaks at the waste oil tank area. The contaminated soil extends beyond the area of the former tanks. As described in Section 1.3.1, the detected VOCs include chlorinated hydrocarbons and petroleum hydrocarbons. Chlorinated hydrocarbons were generally detected between 1 and 7 feet bgs and petroleum hydrocarbons were generally detected between 10 and 14 feet bgs (see Figure 1-4). Additionally, SVOCs and pesticides were detected at low concentrations in the soil.

**Plating Room Area.** Three IRP sites are located in the vicinity of this source area: the Plating Room; the Storage Tank and Settling Pond; and, the Drum Storage Area. These sites are located south of the Manufacturing Building (see Figure 2-1). Any past spills or leaks from these sources could potentially impact soil in the area.

Operations in the plating room produced various wastes including plating acids, caustic sludges, and chromium and cyanide solutions. The plating acid wastes were typically mixed sulfuric, nitric, muriatic, and chromic acids. Spent plating solutions included copper cyanide, nickel cyanide, and cadmium cyanide. The acid wastes were pumped to the plating waste storage tank and neutralized for removal by an outside contractor. The cyanide waste was drummed for offsite disposal (CH2M Hill, 1984). Various degreasing activities also occurred in the plating room. Plating operations were discontinued in 1991, and the plating equipment was removed in 1992. At the time of closure, 89 tanks of various sizes, mostly less than 250 gallons, were located in the plating room. The plating room was decommissioned in 1992 and 1993, and is currently undergoing a NYSDEC-coordinated closure (USAF, 1993).

## SECTION 2.0

# CONTAMINANT SOURCE CHARACTERIZATION

**I**n Section 1.0, three areas of soil contamination were identified. Two of these areas correspond to locations where hazardous materials have historically been used or stored. Due to the close proximity of these source areas and the similar groundwater contamination found across the site, groundwater has been identified as a single zone with the potential for these multiple source areas to impact groundwater quality.

The identified source areas are the Waste Oil Tank Area, the Plating Room Area, and the Reservoir Area. The source location, volume, hazardous constituents, and potential release are discussed below for each of these source areas.

A potential additional, or secondary, source of contamination is the subsurface storm drainage system. The subsurface storm drainage system collects surface runoff and then discharges to Little Choconut Creek via outfalls. This system is described in Section 3.2. Any contamination in the storm water system could migrate to the surface water. Additionally, leaks of contaminated storm water from the subsurface drains could potentially impact subsurface soils.

**Waste Oil Tank Area.** The former underground waste oil storage tanks are an Installation Restoration Program (IRP) site. The site is located south of the Special Programs Facility at the southeastern corner of the Manufacturing Building (see Figure 2-1). Two interconnected 1,000-gallon underground storage tanks (USTs) were used to store waste cutting oils on a temporary basis. Waste oils were collected from the various machining areas of the plant and then pumped into the USTs for storage pending removal and disposal by a private contractor. Prior to 1969, nonchlorinated, kerosene-based degreasing solvents were used at the plant and were stored along with the waste oils. Use of halogenated solvents such as TCE, 1,1,1-TCA, and freon was introduced in 1969. These waste solvents were drummed and recycled onsite where possible or transported offsite by a contractor.

The USTs were in operation from 1953 to 1985 at which time they were removed (USAF, 1993). The tanks were reportedly inspected daily to prevent overtopping. Spills, however, reportedly occurred during the removal of oils from the tanks by an outside contractor. During the tank removal, stained gravel and soil was found and determined to be contaminated. This soil was reportedly excavated to a depth of 12 feet (approximately 6 feet below the bottom of the tanks). Soil at the bottom of the excavation, below the removal area, was sampled and found to be nonhazardous (USAF, 1993). The contaminated soil was then reportedly removed

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**TABLE 1-42**  
**COMPARISON BETWEEN BACKGROUND AND SURFACE WATER**  
**FOR INORGANIC ANALYTES**

Analyte	Comparison Method	Exceeding Background?(2)
Arsenic	Maximum Comparison <sup>(1)</sup>	Yes
Barium	Maximum Comparison	Yes
Calcium	Maximum Comparison	Yes
Chromium	NA <sup>(2)</sup>	Yes
Copper	NA	Yes
Iron	Maximum Comparison	Yes
Lead	NA	Yes
Magnesium	Maximum Comparison	Yes
Manganese	Maximum Comparison	Yes
Potassium	Maximum Comparison	No
Sodium	Maximum Comparison	Yes
Zinc	Maximum Comparison	Yes

Key: NA = Not Applicable

- (1) The maximum site and background concentrations are compared; if site maximum exceeds background maximum, analytes are determined to exceed background.
- (2) Comparison not possible (analyte not detected in background). Analyte is assumed to exceed background.

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**TABLE 1-41**  
**ORGANICS DETECTED IN SURFACE WATER SAMPLES**

Analyte	Method	Number of Samples Above Detection Limit <sup>(1)</sup>	Range (µg/L)		Location of Maximum Detection
			Minimum Detected	Maximum Detected	
Delta BHC	SW8080	1 of 3	0.0025	0.0025	CR04
Endosulfan Sulfate	SW8080	3 of 4	0.0060	0.012	CR04
Endrin	SW8080	1 of 4	0.0031	0.0031	CR01
Gamma BHC	SW8080	1 of 3	0.013	0.013	CR04
Heptachlor Epoxide	SW8080	2 of 4	0.0017	0.0049	CR04
4,4'-DDD	SW8080	2 of 4	0.0060	0.018	CR04
Bromodichloromethane	SW8260	1 of 3	0.60	0.60	CR02
Bromoform	SW8260	1 of 3	1.1	1.1	CR02
Chloroform	SW8260	1 of 3	0.33	0.33	CR02
Dibromochloromethane	SW8260	1 of 3	0.96	0.96	CR02
Dichlorodifluoromethane	SW8260	1 of 3	0.38	0.38	CR02
Bis(2-ethylhexyl) phthalate	SW8270	2 of 4	2.0	3.0	CR04

**Key:** µg/L = Micrograms per liter

**Note:** Only analytes detected in one or more sample are included in this summary table.

<sup>(1)</sup> Samples with blank contamination were not included when determining the total number of samples for each analyte.

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**TABLE 1-40**  
**COMPARISON BETWEEN BACKGROUND AND SEDIMENT FOR INORGANIC ANALYTES**

Analyte	Comparison Method	Exceeding Background?(2)
Aluminum	Maximum Comparison <sup>(1)</sup>	Yes
Arsenic	Maximum Comparison	Yes
Barium	Maximum Comparison	Yes
Beryllium	Maximum Comparison	Yes
Calcium	Maximum Comparison	No
Chromium	Maximum Comparison	Yes
Cobalt	Maximum Comparison	Yes
Copper	Maximum Comparison	Yes
Iron	Maximum Comparison	Yes
Lead	Maximum Comparison	Yes
Magnesium	Maximum Comparison	Yes
Manganese	Maximum Comparison	No
Mercury	NA <sup>(2)</sup>	Yes
Nickel	Maximum Comparison	Yes
Potassium	Maximum Comparison	Yes
Silver	NA	Yes
Sodium	Maximum Comparison	Yes
Vanadium	Maximum Comparison	Yes
Zinc	Maximum Comparison	Yes

**Key:** NA = Not Applicable

- (1) The maximum site and background concentrations are compared; if site maximum exceeds background maximum, analytes are determined to exceed background.
- (2) Comparison not possible (analyte not detected in background). Analyte is assumed to exceed background.



**TABLE 1-39**  
**ORGANICS DETECTED IN SEDIMENT SAMPLES**

Continued

Analyte	Method	Number of Samples Above Detection Limit <sup>(1)</sup>	Range (mg/kg)		Location of Maximum Detection
			Minimum Detected	Maximum Detected	
Fluoranthene	SW8270	4 of 4	0.058	1.9	CR02
Fluorene	SW8270	1 of 4	0.2	0.2	CR02
Indeno(1,2,3-cd)pyrene	SW8270	2 of 4	0.058	0.061	CR04
Naphthalene	SW8260/ SW8270	2 of 8	0.0015	0.21	CR02
Phenanthrene	SW8270	3 of 4	0.09	1.7	CR02
Pyrene	SW8270	4 of 4	0.071	1.4	CR02
Total Organic Carbon	SW9060	4 of 4	2,990	13,400	CR04

**Key:** mg/kg = Milligrams per kilogram

**Note:** Only analytes detected in one or more samples are included in this summary table.

<sup>(1)</sup> Samples with blank contamination were not included when determining the total number of samples for each analyte.

**TABLE 1-39**  
**ORGANICS DETECTED IN SEDIMENT SAMPLES**

Analyte	Method	Number of Samples Above Detection Limit <sup>(1)</sup>	Range (mg/kg)		Location of Maximum Detection
			Minimum Detected	Maximum Detected	
Aldrin	SW8080	3 of 4	0.001	0.0012	CR04
Alpha BHC	SW8080	1 of 4	0.0001	0.0001	CR04
Alpha Endosulfan	SW8080	3 of 4	0.0012	0.0028	CR02
Beta BHC	SW8080	2 of 4	0.0004	0.016	CR02
Beta Endosulfan	SW8080	2 of 2	0.0002	0.0003	CR04
Delta BHC	SW8080	1 of 4	0.0003	0.0003	CR04
Dieldrin	SW8080	2 of 2	0.0006	0.0008	CR04
Endosulfan Sulfate	SW8080	3 of 4	0.0006	0.0011	CR04
Endrin	SW8080	2 of 3	0.0007	0.0025	CR04
Endrin Aldehyde	SW8080	2 of 3	0.0003	0.0009	CR02
Gamma BHC	SW8080	1 of 4	0.0001	0.0001	CR04
Heptachlor	SW8080	1 of 3	0.0002	0.0002	CR02
Heptachlor Epoxide	SW8080	2 of 4	0.0004	0.0012	CR02
Methoxychlor	SW8080	3 of 4	0.0004	0.019	CR04
4,4'-DDD	SW8080	1 of 4	0.0002	0.0002	CR04
4,4'-DDT	SW8080	2 of 4	0.0003	0.0004	CR02
2-Methylnaphthalene	SW8270	1 of 4	0.067	0.067	CR02
Anthracene	SW8270	1 of 4	0.34	0.34	CR02
Benzo(a)anthracene	SW8270	3 of 4	0.2	0.97	CR02
Benzo(a)pyrene	SW8270	3 of 4	0.17	0.89	CR02
Benzo(b)fluoranthene	SW8270	3 of 4	0.24	1.5	CR02
Benzo(g,h,i)perylene	SW8270	3 of 4	0.077	0.41	CR02
bis(2-ethylhexyl)phthalate	SW8270	2 of 3	0.083	0.15	CR04
Chrysene	SW8270	3 of 4	0.2	1.0	CR02
Di-n-butylphthalate	SW8270	1 of 4	0.068	0.068	CR02
Dibenzofuran	SW8270	1 of 4	0.12	0.12	CR02

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**TABLE 1-38**  
**COMPARISON BETWEEN BACKGROUND AND DEEP ZONE GROUNDWATER**  
**FOR INORGANIC ANALYTES**

Analyte	Comparison Method	Exceeding Background
Aluminum	NA <sup>(2)</sup>	Yes
Arsenic	NA	Yes
Barium	Maximum Comparison <sup>(1)</sup>	Yes
Calcium	Maximum Comparison	Yes
Copper	NA	Yes
Iron	NA	Yes
Lead	NA	Yes
Magnesium	Maximum Comparison	Yes
Manganese	Maximum Comparison	Yes
Potassium	NA	Yes
Sodium	Maximum Comparison	No
Thallium	NA	Yes
Vanadium	NA	Yes
Zinc	NA	Yes

Key: NA = Not Applicable

- (1) The maximum site and background concentrations are compared; if site maximum exceeds background maximum, analytes are determined to exceed background.
- (2) Comparison not possible (either no valid background data or analyte not detected in background). Analyte is assumed to exceed background.

**TABLE 1-37**  
**SUMMARY GROUNDWATER DATA - DEEP ZONE**

Continued

Analyte	Number of Samples Above Detection Limit	Range (µg/L)		Detection Frequency (%)	Location of Maximum Detection
		Minimum Detected	Maximum Detection		
Iron	7 of 7	284	4,460	100%	DW9
Lead	4 of 10	1.7	6.0	40.0%	DW4
Magnesium	10 of 10	24,800	38,300	100.0%	DW12
Manganese	10 of 10	316	1,440	100.0%	DW9
Potassium	6 of 6	1,860	6,040	100.0%	DW6
Sodium	10 of 10	25,300	94,300	100.0%	DW8
Thallium	1 of 10	46.8	46.8	10.0%	DPW
Vanadium	2 of 10	3.4	6.0	20.0%	DW13
Zinc	1 of 1	33.9	33.9	100.0%	DW12

**TABLE 1-37**  
**SUMMARY GROUNDWATER DATA - DEEP ZONE**

Analyte	Number of Samples Above Detection Limit	Range (µg/L)		Detection Frequency (%)	Location of Maximum Detection
		Minimum Detected	Maximum Detection		
1,1,1-Trichloroethane (TCA)	1 of 10	1.2	1.2	10.0%	DPW
1,1-Dichloroethane (DCA)	2 of 10	0.26	2.4	20.0%	DPW
1,3,5-Trimethylbenzene	1 of 10	0.78	0.78	10.0%	DW11
Chloromethane	1 of 9	0.38	0.38	11.1%	DW11
Cis-1,2-dichloroethene	3 of 10	0.28	36	30.0%	DW3
Ethylbenzene	1 of 10	0.40	0.40	10.0%	DW9
Trichloroethene (TCE)	2 of 10	1.2	4.0	20.0%	DPW
Vinyl Chloride	1 of 10	0.28	0.28	10.0%	DW3
m,p-Xylenes	1 of 10	0.29	0.29	10.0%	DW9
o-Xylene	1 of 10	0.25	0.25	10.0%	DW9
Bis(2-ethylhexyl)phthalate	3 of 10	1.9	5.9	30%	DW11
4,4'-DDD	1 of 7	0.0019	0.0019	14.3%	DW11
4,4'-DDE	2 of 6	0.022	0.15	33.3%	DW12
4,4'-DDT	3 of 8	0.0032	0.016	37.5%	DW12
Aldrin	1 of 7	0.0025	0.0025	14.3%	DW13
Alpha Endosulfan	1 of 6	0.0013	0.0013	16.7%	DW13
Alpha BHC	6 of 9	0.0003	0.0051	66.7%	DW5
Beta Endosulfan	2 of 9	0.0046	0.0051	22.2%	DW12
Beta BHC	2 of 8	0.0061	0.0089	25%	DW6
Delta BHC	5 of 8	0.0016	0.011	62.5%	DW8
Endosulfan Sulfate	2 of 5	0.0016	0.0068	40.0%	DW4
Endrin	1 of 5	0.0010	0.0010	20.0%	DW9
Endrin Aldehyde	4 of 8	0.0008	0.0030	50.0%	DW11
Gamma BHC	1 of 5	0.0012	0.0012	20.0%	DW9
Heptachlor Epoxide	6 of 9	0.0018	0.0065	66.7%	DW4
Methoxychlor	4 of 8	0.011	0.090	50.0%	DW12
Aluminum	2 of 2	106	1000	100.0%	DW4
Arsenic	1 of 10	11.9	11.9	10.0%	DW6
Barium	10 of 10	36.8	222	100.0%	DW3
Calcium	10 of 10	86,900	157,000	100.0%	DW12
Copper	1 of 5	2.9	2.9	20.0%	DW12

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**TABLE 1-36**  
**COMPARISON BETWEEN BACKGROUND AND SHALLOW ZONE**  
**GROUNDWATER FOR INORGANIC ANALYTES**

Analyte	Comparison Method	Exceeding Background
Aluminum	Maximum Comparison <sup>(1)</sup>	Yes
Arsenic	NA <sup>(2)</sup>	Yes
Barium	Maximum Comparison	Yes
Beryllium	NA	Yes
Calcium	Maximum Comparison	Yes
Chromium	NA	Yes
Copper	Maximum Comparison	Yes
Iron	Maximum Comparison	Yes
Lead	Maximum Comparison	Yes
Magnesium	Maximum Comparison	Yes
Manganese	Maximum Comparison	Yes
Nickel	NA	Yes
Potassium	NA	Yes
Silver	NA	Yes
Sodium	Maximum Comparison	No
Vanadium	NA	Yes
Zinc	NA	Yes

**Key:** NA = Not Applicable

- (1) The maximum site and background concentrations are compared; if site maximum exceeds background maximum, analytes are determined to exceed background.
- (2) Comparison not possible (either no valid background data or analyte not detected in background). Analyte is assumed to exceed background.



**TABLE 1-35  
SUMMARY GROUNDWATER DATA - SHALLOW ZONE**

Continued

Analyte	Number of Samples Above Detection Limit	Range (µg/L)		Detection Frequency (%)	Location of Maximum Detection
		Minimum Detected	Maximum Detection		
Beta BHC	2 of 8	0.010	0.010	25%	SW7/SW11
Delta BHC	5 of 13	0.0004	0.0070	38.5%	SW3
Dieldrin	1 of 11	0.0010	0.0010	9.1%	SW3
Endosulfan Sulfate	3 of 9	0.0005	0.0014	33.3%	SW9
Endrin	2 of 11	0.0009	0.0062	18.2%	SW13
Endrin Aldehyde	9 of 13	0.0008	0.0075	69.2%	SW3
Gamma BHC	3 of 12	0.0011	0.0043	25.0%	SW8
Heptachlor	1 of 10	0.0022	0.0022	10.0%	SW8
Heptachlor Epoxide	3 of 9	0.0009	0.0036	33.3%	SW4
Methoxychlor	5 of 13	0.0031	0.0096	38.5%	SW9
Aluminum	9 of 9	904	5,020	100.0%	SW5
Arsenic	11 of 13	2.2	10.5	84.6%	SW5
Barium	13 of 13	37.6	344	100.0%	SW11
Beryllium	4 of 6	0.23	1.1	66.7%	SW11
Calcium	13 of 13	84,400	260,000	100.0%	SW7
Chromium	7 of 13	5.8	27.2	53.8%	SW4
Copper	6 of 6	17.0	52.9	100.0%	SW5
Iron	11 of 11	1,460	15,300	100.0%	SW5
Lead	10 of 13	4.8	79.6	76.9%	SW8
Magnesium	13 of 13	13,800	58,300	100.0%	SW6
Manganese	11 of 11	216	4,000	100.0%	SW5
Nickel	2 of 13	23.2	47.5	15.4%	SW4
Potassium	9 of 9	2,070	4,000	100.0%	SW13
Sodium	13 of 13	13,900	84,200	100.0%	SW5
Silver	1 of 13	10.0	10.0	7.7%	SW8
Vanadium	7 of 13	3.8	12.4	53.8%	SW8
Zinc	1 of 1	34.9	34.9	100.0%	SW13

**TABLE 1-35**  
**SUMMARY GROUNDWATER DATA - SHALLOW ZONE**

Analyte	Number of Samples Above Detection Limit	Range (µg/L)		Detection Frequency (%)	Location of Maximum Detection
		Minimum Detected	Maximum Detection		
1,1,1-Trichloroethane (TCA)	8 of 13	0.36	20	61.5%	SW4
1,1-Dichloroethane (DCA)	6 of 13	0.62	33	46.2%	SW7
1,1-Dichloroethene	2 of 13	1.0	2.1	15.4%	SW4
1,2,4-Trichlorobenzene	2 of 13	0.27	2.7	15.4%	SW4
1,2,4-Trimethylbenzene	2 of 13	13	15	15.4%	SW11
1,3,5-Trimethylbenzene	2 of 13	31	36	15.4%	SW11
Bromodichloromethane	1 of 13	0.34	0.38	7.7%	SW3
Carbon Tetrachloride	2 of 13	0.33	0.6	15.4%	SW7
Chloroethane	3 of 13	0.67	4.2	23.1%	SW7
Cis-1,2-dichloroethene	9 of 13	0.5	150	69.2%	SW7
Ethylbenzene	2 of 13	0.67	0.68	15.4%	SW11
Isopropylbenzene	2 of 13	1.0	1.0	15.4%	SW11
Naphthalene	2 of 13	2.5	2.8	15.4%	SW11
n-Propylbenzene	2 of 13	0.88	0.90	15.4%	SW11
Toluene	2 of 13	1.1	1.3	15.4%	SW11
Trans-1,2-dichloroethene	1 of 13	0.30	0.30	7.7%	SW7
Trichloroethene (TCE)	10 of 13	0.34	370	76.9%	SW4
Trichlorofluoromethane	1 of 13	2.8	2.8	7.7%	SW4
Trichloromethane	3 of 13	0.28	0.46	23.1%	SW3
Vinyl Chloride	4 of 13	0.30	6.2	30.8%	SW7
m,p-Xylenes	2 of 13	2.7	2.7	15.4%	SW11
o-Xylene	2 of 13	3.9	4.2	15.4%	SW11
Bis(2-ethylhexyl)phthalate	1 of 13	1.5	1.5	7.7%	SW12
Di-n-butylphthalate	1 of 13	1.6	1.6	7.7%	SW6
4,4'-DDD	3 of 9	0.0019	0.0082	33.3%	SW11
4,4'-DDE	3 of 12	0.0020	0.0033	25.0%	SW9
4,4'-DDT	1 of 11	0.0007	0.0007	9.1%	SW12
Aldrin	2 of 11	0.0010	0.0015	18.2%	SW7
Alpha Endosulfan	3 of 11	0.0011	0.0015	27.3%	SW3
Alpha BHC	2 of 13	0.0002	0.0005	15.4%	SW9
Beta Endosulfan	3 of 10	0.0010	0.0041	30.0%	SW3

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**TABLE 1-34**  
**COMPARISON BETWEEN BACKGROUND AND SOIL ASSOCIATED WITH THE**  
**RESERVOIR FOR INORGANIC ANALYTES**

Analyte	Comparison Method (1)	Exceeding Background?(2)
Aluminum	Wilcoxon Rank Sum Test	No
Arsenic	Wilcoxon Rank Sum Test	No
Barium	Wilcoxon Rank Sum Test	No
Beryllium	Wilcoxon Rank Sum Test	No
Calcium	Wilcoxon Rank Sum Test	Yes
Chromium, Total	Wilcoxon Rank Sum Test	No
Cobalt	Wilcoxon Rank Sum Test	No
Copper	Wilcoxon Rank Sum Test	Yes
Iron	Wilcoxon Rank Sum Test	No
Lead	Wilcoxon Rank Sum Test	No
Magnesium	Wilcoxon Rank Sum Test	No
Manganese	Wilcoxon Rank Sum Test	No
Mercury	NA	Yes
Molybdenum	NA	Yes
Nickel	Wilcoxon Rank Sum Test	No
Potassium	Wilcoxon Rank Sum Test	No
Selenium	NA	Yes
Sodium	Wilcoxon Rank Sum Test	No
Vanadium	Wilcoxon Rank Sum Test	No
Zinc	Wilcoxon Rank Sum Test	Yes

**Key:** NA = Not Applicable. Analyte detected at the site but not at background. (see footnote 2)

- (1) The Wilcoxon Rank Sum Test was conducted as an upper one-tail test at the 0.05 significance level. Analytes were determined as statistically exceeding background if one-half the t or Z probability was less than 0.05 and the mean of the rank scores for the site data was greater than the mean of the rank scores for background data.
- (2) In cases where the analyte was detected at the site but not at background, it was assumed that the site exceeded background.

**TABLE 1-33**  
**ORGANICS DETECTED IN SOIL SAMPLES ASSOCIATED WITH THE RESERVOIR**

Continued

Parameter	Number of Samples Above Detection Limit <sup>(1)</sup>	Range (mg/kg)		Detection Frequency (%)	Location of Maximum Detection	Depth of Maximum (Feet bgs)
		Minimum Detected	Maximum Detected			
Indeno(1,2,3-cd)pyrene	1 of 17	0.16	0.16	5.9	BH07	5-7
Phenanthrene	5 of 17	0.041	0.61	29.4	BH07	5-7
Pyrene	7 of 17	0.062	0.80	41.2	BH07	3-5

**Key:** mg/kg = Milligrams per kilogram

(1) Samples with blank contamination were not included when determining the total number of samples for each analyte.

**TABLE 1-33**  
**ORGANICS DETECTED IN SOIL SAMPLES ASSOCIATED WITH THE RESERVOIR**

Parameter	Number of Samples Above Detection Limit <sup>(1)</sup>	Range (mg/kg)		Detection Frequency (%)	Location of Maximum Detection	Depth of Maximum (Feet bgs)
		Minimum Detected	Maximum Detected			
Aldrin	4 of 9	0.001	0.0015	44.4	BH09/BH07	1-3/3-5
Alpha BHC	3 of 17	0.000029	0.0001	17.6	SW13	6-7
Alpha Endosulfan	10 of 14	0.000044	0.0009	71.4	BH08	5-7
Beta BHC	1 of 17	0.0006	0.0006	5.9	SW13	11-12
Beta Endosulfan	6 of 14	0.0001	0.0053	42.9	SW13	6-7
Delta BHC	6 of 17	0.0001	0.0009	35.3	BH09	1-3
Dieldrin	8 of 12	0.0001	0.0036	66.7	BH09	1-3
Endosulfan Sulfate	11 of 17	0.0001	0.0032	64.7	BH09	1-3
Endrin	7 of 16	0.0002	0.0024	43.8	SW13	6-7
Endrin Aldehyde	12 of 17	0.0002	0.014	70.6	BH06	1-3
Gamma BHC	6 of 16	0.0001	0.0004	37.5	BH09	1-3
Heptachlor	5 of 12	0.0002	0.0021	41.7	BH09	1-3
Heptachlor Epoxide	8 of 15	0.0002	0.0049	53.3	BH06	1-3
Methoxychlor	7 of 13	0.0005	0.024	53.8	SW13	6-7
4,4'-DDD	12 of 17	0.0001	0.0061	70.6	SW13	6-7
4,4'-DDE	6 of 12	0.0001	0.0010	50.0	BH09	1-3
4,4'-DDT	12 of 17	0.0001	0.0049	70.6	SW13	11-12
PCB-1260	2 of 17	0.02	0.079	11.8	BH07	5-7
1,1,1-Trichloroethane (TCA)	1 of 22	0.003	0.0030	4.5	BH09	5-7
Trichloroethene (TCE)	7 of 22	0.0021	0.070	31.8	BH09	5-7
Anthracene	2 of 17	0.12	0.14	11.8	BH07	5-7
Benzo(a)anthracene	7 of 17	0.04	0.50	41.2	BH07	3-5/5-7
Benzo(a)pyrene	3 of 17	0.14	0.42	17.6	BH07	3-5
Benzo(b)fluoranthene	5 of 17	0.062	0.78	29.4	BH07	3-5
Benzo(g,h,i)perylene	1 of 17	0.15	0.15	5.9	BH07	5-7
bis(2-Ethylhexyl)phthalate	3 of 17	0.058	0.20	17.6	BH06	1-3
Chrysene	6 of 17	0.041	0.50	35.3	BH07	3-5
Di-n-butyl Phthalate	1 of 14	0.086	0.086	7.1	BH09	1-3
Fluoranthene	7 of 17	0.053	0.94	41.2	BH07	5-7
Fluorene	2 of 17	0.05	0.052	11.8	BH07	5-7

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**TABLE 1-32**  
**COMPARISON BETWEEN BACKGROUND AND SOIL ASSOCIATED WITH THE WASTE OIL TANKS FOR INORGANIC ANALYTES**

Analyte	Comparison Method (1)	Exceeding Background?(2)
Aluminum	Wilcoxon Rank Sum Test	No
Arsenic	Wilcoxon Rank Sum Test	No
Barium	Wilcoxon Rank Sum Test	Yes
Beryllium	Wilcoxon Rank Sum Test	No
Calcium	Wilcoxon Rank Sum Test	No
Chromium	Wilcoxon Rank Sum Test	No
Cobalt	Wilcoxon Rank Sum Test	No
Copper	Wilcoxon Rank Sum Test	No
Iron	Wilcoxon Rank Sum Test	No
Lead	Wilcoxon Rank Sum Test	No
Magnesium	Wilcoxon Rank Sum Test	No
Manganese	Wilcoxon Rank Sum Test	No
Mercury	NA	Yes
Molybdenum	NA	Yes
Nickel	Wilcoxon Rank Sum Test	No
Potassium	Wilcoxon Rank Sum Test	No
Sodium	Wilcoxon Rank Sum Test	No
Vanadium	Wilcoxon Rank Sum Test	No

**Key:** NA = Not Applicable. Analyte detected at the site but not at background. (see footnote 2)

- (1) The Wilcoxon Rank Sum Test was conducted as an upper one-tail test at the 0.05 significance level. Analytes were determined as statistically exceeding background if one-half the t or Z probability was less than 0.05 and the mean of the rank scores for the site data was greater than the mean of the rank scores for background data.
- (2) In cases where the analyte was detected at the site but not at background, it was assumed that the site exceeded background.



**TABLE 1-31**  
**ORGANICS DETECTED IN SOIL SAMPLES ASSOCIATED**  
**WITH THE WASTE OIL TANKS**

Continued

Parameter	Number of Samples Above Detection Limit <sup>(1)</sup>	Range (mg/kg)		Detection Frequency (%)	Location of Maximum Detection	Depth of Maximum (Feet bgs)
		Minimum Detected	Maximum Detected			
Toluene	1 of 18	0.0013	0.0013	5.6	BH11	10-12
Trichloroethylene (TCE)	3 of 18	0.0015	0.015	16.7	BH05	5-7
Vinyl Chloride	1 of 18	0.015	0.015	5.6	BH12	5-7
m,p-Xylenes	3 of 18	0.0018	0.0066	16.7	BH11	10-12
o-Xylene	2 of 18	0.0036	0.0062	11.1	BH11	10-12
2,4-Dinitrotoluene	1 of 16	0.41	0.41	6.3	BH10	5-7
2-Methylnaphthalene	4 of 16	0.12	0.60	25.0	BH11	10-12
Acenaphthene	1 of 16	0.29	0.29	6.3	BH10	5-7
Anthracene	1 of 16	0.42	0.42	6.3	BH10	5-7
Benzo(a)anthracene	1 of 16	1.0	1.0	6.3	BH10	5-7
Benzo(a)pyrene	1 of 16	0.97	0.97	6.3	BH10	5-7
Benzo(b)fluoranthene	1 of 16	1.3	1.3	6.3	BH10	5-7
Benzo(g,h,i)perylene	1 of 16	0.49	0.49	6.3	BH10	5-7
bis(2-Ethylhexyl)phthalate	2 of 15	0.89	0.94	13.3	SW11	12-14
Chrysene	1 of 16	1.0	1.0	6.3	BH10	5-7
Di-n-butyl Phthalate	1 of 13	0.06	0.060	7.7	BH11	3-5
Dibenz(a,h)anthracene	1 of 16	0.11	0.11	6.3	BH10	5-7
Dibenzofuran	1 of 16	0.36	0.36	6.3	BH10	5-7
Fluoranthene	1 of 16	2.7	2.7	6.3	BH10	5-7
Fluorene	1 of 16	0.45	0.45	6.3	BH10	5-7
Indeno(1,2,3-cd)pyrene	1 of 16	0.45	0.45	6.3	BH10	5-7
Naphthalene	6 of 27	0.011	2.5	22.2	BH11	10-12
Phenanthrene	4 of 16	0.14	2.9	25.0	BH10	5-7
Pyrene	1 of 16	2.3	2.3	6.3	BH10	5-7

**Key:** mg/kg = Milligrams per kilogram

(1) Samples with blank contamination were not included when determining the total number of samples for each analyte.

**TABLE 1-31**  
**ORGANICS DETECTED IN SOIL SAMPLES ASSOCIATED**  
**WITH THE WASTE OIL TANKS**

Parameter	Number of Samples Above Detection Limit <sup>(1)</sup>	Range (mg/kg)		Detection Frequency (%)	Location of Maximum Detection	Depth of Maximum (Feet bgs)
		Minimum Detected	Maximum Detected			
Aldrin	3 of 13	0.000046	0.0012	23.1	BH11	5-7
Alpha Endosulfan	4 of 14	0.0003	0.0028	28.6	BH10	10-12
Beta BHC	2 of 15	0.0011	0.0043	13.3	BH10	10-12
Beta Endosulfan	6 of 16	0.0002	0.0041	37.5	SW11	12-14
Delta BHC	5 of 16	0.000039	0.0021	31.3	BH10	10-12
Dieldrin	3 of 12	0.0011	0.0039	25.0	BH05	1-3
Endosulfan Sulfate	6 of 16	0.0004	0.013	37.5	BH11	10-12
Endrin	6 of 16	0.0001	0.0088	37.5	BH11	3-5
Endrin Aldehyde	8 of 16	0.0003	0.043	50.0	BH05	1-3
Gamma BHC	3 of 16	0.0001	0.0006	18.8	BH11	5-7
Heptachlor	1 of 14	0.0001	0.0001	7.1	BH12	1-3
Methoxychlor	5 of 15	0.0034	0.025	33.3	SW11	12-14
4,4'-DDD	2 of 14	0.0011	0.0056	14.3	BH05	1-3
4,4'-DDE	6 of 14	0.000021	0.0028	42.9	BH10	10-12
4,4'-DDT	4 of 14	0.0002	0.0080	28.6	BH10	10-12
PCB-1254	1 of 16	0.17	0.17	6.3	BH11	3-5
PCB-1260	1 of 16	0.15	0.15	6.3	SW11	12-14
1,1,1-Trichloroethane (TCA)	1 of 18	0.0025	0.0025	5.6	BH05	5-7
1,1-Dichloroethane (DCA)	5 of 18	0.0016	0.011	27.8	BH05	5-7
1,2,4-Trimethylbenzene	4 of 18	0.0026	0.070	22.2	BH11	10-12
1,3,5-Trimethylbenzene	4 of 18	0.0046	0.19	22.2	BH11	10-12
Chloroethane	1 of 18	0.0045	0.0045	5.6	BH12	5-7
cis-1,2-Dichloroethene	7 of 18	0.002	0.11	38.9	BH12	5-7
Ethylbenzene	2 of 18	0.0013	0.0013	11.1	SW11/BH11	12-14/10-12
Isopropylbenzene	2 of 18	0.0027	0.0028	11.1	SW11	12-14
n-Butylbenzene	3 of 18	0.0032	0.047	16.7	BH11	10-12
n-Propylbenzene	3 of 18	0.0014	0.0078	16.7	BH11	10-12
p-Cymene	2 of 18	0.014	0.053	11.1	BH11	10-12
sec-Butylbenzene	2 of 18	0.0014	0.011	11.1	BH11	10-12

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**TABLE 1-30**  
**COMPARISON BETWEEN BACKGROUND AND SOIL ASSOCIATED WITH THE PLATING**  
**ROOM FOR INORGANIC ANALYTES**

Analyte	Comparison Method (1)	Exceeding Background?(2)
Aluminum	Wilcoxon Rank Sum Test	No
Arsenic	Wilcoxon Rank Sum Test	No
Barium	Wilcoxon Rank Sum Test	No
Beryllium	Wilcoxon Rank Sum Test	No
Cadmium	NA	Yes
Calcium	Wilcoxon Rank Sum Test	Yes
Chromium	Wilcoxon Rank Sum Test	No
Cobalt	Wilcoxon Rank Sum Test	No
Copper	Wilcoxon Rank Sum Test	No
Cyanide	NA	Yes
Iron	Wilcoxon Rank Sum Test	No
Lead	Wilcoxon Rank Sum Test	No
Magnesium	Wilcoxon Rank Sum Test	No
Manganese	Wilcoxon Rank Sum Test	No
Mercury	NA	Yes
Molybdenum	NA	Yes
Nickel	Wilcoxon Rank Sum Test	No
Potassium	Wilcoxon Rank Sum Test	No
Sodium	Wilcoxon Rank Sum Test	No
Vanadium	Wilcoxon Rank Sum Test	No
Zinc	Wilcoxon Rank Sum Test	No

**Key:** NA = Not Applicable. Analyte detected at the site but not at background. (see footnote 2)

(1) The Wilcoxon Rank Sum Test was conducted as an upper one-tail test at the 0.05 significance level. Analytes were determined as statistically exceeding background if one-half the t or Z probability was less than 0.05 and the mean of the rank scores for the site data was greater than the mean of the rank scores for background data.

(2) In cases where the analyte was detected at the site but not at background, it was assumed that the site exceeded background.

**Note:** The comparison of plating room soil data to background included analytical data from the Remedial Investigation and existing soil data from Martin Marietta.

**TABLE 1-29**  
**ORGANICS DETECTED IN SOIL SAMPLES ASSOCIATED WITH THE PLATING ROOM**

**Continued**

Parameter	Number of Samples Above Detection Limit <sup>(1)</sup>	Range (mg/kg)		Frequency (%)	Location of Maximum Detection	Depth of Maximum Detection (Feet bgs)
		Minimum Detected	Maximum Detected			
Aldrin	2 of 21	0.066	3.2	9.5	BH01	5-7
Dibenzofuran	1 of 21	0.043	0.043	4.8	BH01	5-7
Fluoranthene	2 of 21	0.11	5.3	9.5	BH01	5-7
Fluorene	1 of 21	0.11	0.11	4.8	BH01	5-7
Phenanthrene	1 of 21	3.1	3.1	4.8	BH01	5-7
Pyrene	2 of 21	0.075	5.7	9.5	BH01	5-7

**Key:** mg/kg = Milligrams per kilogram

(1) Samples with blank contamination were not included when determining the total number of samples for each analyte.

**Note:** Both existing soil data from Martin Marietta and EARTH TECH soil data collected during the RI are included in this table.

**TABLE 1-29**  
**ORGANICS DETECTED IN SOIL SAMPLES ASSOCIATED WITH THE PLATING ROOM**

Parameter	Number of Samples Above Detection Limit <sup>(1)</sup>	Range (mg/kg)		Detection Frequency (%)	Location of Maximum Detection	Depth of Maximum Detection (Feet bgs)
		Minimum Detected	Maximum Detected			
Aldrin	4 of 10	0.000015	0.000044	40.0	BH03	1-3
Alpha Endosulfan	2 of 5	0.00004	0.0011	40.0	BH01	1-3
Beta BHC	1 of 15	0.0003	0.0003	6.7	BH02	1-3
Beta Endosulfan	1 of 12	0.0006	0.0006	8.3	BH01	1-3
Delta BHC	2 of 15	0.0001	0.0001	13.3	BH01/BH02	1-3/10-12
Dieldrin	4 of 15	0.0001	0.0002	26.7	BH03/BH04	5-7/5-7
Endosulfan Sulfate	7 of 14	0.000049	0.0016	50.0	BH01	1-3
Gamma BHC	3 of 15	0.000027	0.0002	20.0	BH04	3-5
Heptachlor	1 of 11	0.000032	0.000032	9.1	BH02	5-7
Methoxychlor	5 of 14	0.001	0.013	35.7	BH01	5-7
4,4'-DDD	3 of 12	0.0002	0.0022	25.0	BH01	5-7
4,4'-DDT	5 of 12	0.000029	0.0006	41.7	BH02	1-3
PCB-1254	2 of 10	0.046	0.17	20.0	BH01	5-7
1,1,1-Trichloroethane (TCA)	1 of 49	0.0087	0.0087	2.0	BH02	5-7
Acetone	30 of 34	0.023	1.54	88.2	004	0.5-1.0
Bromomethane	1 of 49	0.016	0.016	2.0	BH01	5-7
Dichlorodifluoromethane	1 of 15	0.0014	0.0014	6.7	BH04	10-12
Methylene Chloride	4 of 34	0.006	0.008	11.8	026/027	0.5-1.0
Tetrachloroethene (PCE)	1 of 49	0.0012	0.0012	2.0	BH03	1-3
Trichloroethene (TCE)	17 of 49	0.002	0.071	34.7	005	0.5-1.0
Acenaphthene	1 of 21	0.15	0.15	4.8	BH01	5-7
Anthracene	1 of 21	0.59	0.59	4.8	BH01	5-7
Benzo(a)anthracene	2 of 21	0.091	3.3	9.5	BH01	5-7
Benzo(a)pyrene	1 of 21	2.0	2.0	4.8	BH01	5-7
Benzo(b)fluoranthene	1 of 21	3.8	3.8	4.8	BH01	5-7
bis(2-Ethylhexyl)phthalate	4 of 21	0.471	0.471	19.0	006/009/012/ 015	0.5-1.0

**TABLE 1-28  
BACKGROUND ORGANIC AND INORGANIC  
CONCENTRATIONS IN SEDIMENT**

**Continued**

Analyte	Method	59CR05SE1	59CR06SE1
Endosulfan Sulfate	SW8080	0.0004 J	0.0004 J
Endrin	SW8080	0.0045 J	0.0001 J
Endrinald	SW8080	0.0014 J	0.0006 J
Heptachlor Epoxide	SW8080	ND	0.0004 J
Methoxychlor	SW8080	0.0060 J	0.0024 J
PCB-1254	SW8080	0.16	ND
Methylene Chloride	SW8260	0.0089 U	0.015 U
bis(2-Ethylhexyl)phthalate	SW8270	0.076 J	0.094 J
Benzo(a)anthracene	SW8270	0.064 J	0.12 J
Benzo(a)pyrene	SW8270	0.054 J	0.097 J
Benzo(b)fluoranthene	SW8270	0.045 J	0.17 J
Chrysene	SW8270	0.080 J	0.12 J
Di-n-butyl Phthalate	SW8270	0.074 J	ND
Fluoranthene	SW8270	0.11 J	0.20 J
Phenanthrene	SW8270	0.048 J	0.16 J
Pyrene	SW8270	0.11 J	0.16 J
Total Organic Carbon	SW9060	1,410	4,370

**Key:** mg/kg = Milligrams per kilogram  
 ND = Not detected  
 J = Estimated concentration  
 U = Analyte detected in associated blanks. Data unusable.

**Note:** Only analytes detected in one or more samples are included in this summary table.

**TABLE 1-28  
BACKGROUND ORGANIC AND INORGANIC  
CONCENTRATIONS IN SEDIMENT**

Analyte	Method	59CR05SE1	59CR06SE1
<b>INORGANIC COMPOUNDS (MG/KG)</b>			
Aluminum	SW6010	6,030 J	6,840 J
Barium	SW6010	31.0 J	42.5 J
Beryllium	SW6010	0.21 J	0.24 J
Calcium	SW6010	17,700 J	32,100 J
Cobalt	SW6010	6.9	7.7
Chromium	SW6010	8.7	9.9
Copper	SW6010	12.2	26.8
Iron	SW6010	15,800 J	17,600 J
Potassium	SW6010	889	661
Magnesium	SW6010	2,840 J	3,440 J
Manganese	SW6010	397 J	584 J
Molybdenum	SW6010	14.0	15.0
Sodium	SW6010	96.2 U	118 J
Nickel	SW6010	19.3	14.1
Vanadium	SW6010	11.5	9.5
Zinc	SW6010	71.7 J	138 J
Arsenic	SW7060	5.2	ND
Lead	SW7421	15.3	19.5
<b>ORGANIC COMPOUNDS (MG/KG)</b>			
Aldrin	SW8080	ND	0.0006 J
Beta BHC	SW8080	ND	0.013 J
4,4'-DDE	SW8080	0.0011 U	ND
4,4'-DDT	SW8080	ND	0.0005 J
Dieldrin	SW8080	ND	0.0003 U
Alpha Endosulfan	SW8080	0.0014 J	0.0013 J
Beta Endosulfan	SW8080	ND	0.0016 U



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**TABLE 1-27**  
**BACKGROUND ORGANIC AND INORGANIC**  
**CONCENTRATIONS IN SURFACE WATER**

Analyte	Method	59CR05WS1	59CR06WS1
<b>INORGANIC COMPOUNDS (<math>\mu\text{g/L}</math>)</b>			
Aluminum	SW6010	57.8 U	65.4 U
Silver	SW6010	ND	36.2
Barium	SW6010	ND	20.1
Calcium	SW6010	62.4 U	30,400
Iron	SW6010	ND	84.5
Potassium	SW6010	ND	2,360
Magnesium	SW6010	ND	6,870
Manganese	SW6010	ND	4.4
Sodium	SW6010	573 U	28,700
Zinc	SW6010	5.8 J	21.1
Arsenic	SW7060	2.1 J	2.2 J
Hardness (as $\text{CaCO}_3$ )	E130.1	98.1 mg/L	124 mg/L
<b>ORGANIC COMPOUNDS (<math>\mu\text{g/L}</math>)</b>			
Aldrin	SW8080	0.0048 J	ND
Beta BHC	SW8080	0.0033 J	ND
Delta BHC	SW8080	ND	0.0005 J
Gamma BHC	SW8080	ND	0.0026 J
4,4'-DDE	SW8080	ND	0.0010 U
4,4'-DDT	SW8080	ND	0.0010 U
Dieldrin	SW8080	0.0070 U	0.0031 U
Alpha Endosulfan	SW8080	ND	0.0013 U
Beta Endosulfan	SW8080	0.011 U	ND
Endosulfan Sulfate	SW8080	ND	0.0020 U
Endrin	SW8080	ND	0.0056 U
Endrinald	SW8080	0.0030 U	ND
Heptachlor	SW8080	0.0030 U	ND
Methylene Chloride	SW8260	0.71 U	0.44 U

**Key:**  $\mu\text{g/L}$  = Micrograms per liter  
 $\text{mg/L}$  = Milligrams per liter  
 ND = Not detected  
 J = Estimated concentration  
 U = Analyte detected in associated blanks. Data unusable.

**Note:** Only analytes detected in one or more samples are included in this summary table.

**TABLE 1-26**  
**BACKGROUND ORGANIC AND INORGANIC**  
**CONCENTRATIONS IN GROUNDWATER**

Continued

Analyte	Method	59SW1WG1	59SW10WG1	59DW1WG1	59DW10WG1
<b>ORGANIC COMPOUNDS (<math>\mu\text{g/L}</math>) (Continued)</b>					
Methylene Chloride	SW8260	0.70 U	0.96 U	1.8 U	1.1 U
Bromodichloromethane	SW8260	ND	ND	ND	0.35 J
Bromoform	SW8260	ND	ND	ND	1.5
Dibromochloromethane	SW8260	ND	ND	ND	0.78
1,1-Dichloroethane	SW8260	ND	2.2	ND	ND
1,1-Dichloroethene	SW8260	ND	2.0	ND	ND
1,1,1-Trichloroethane	SW8260	ND	10	ND	0.35 J
Trichloroethene	SW8260	ND	21	ND	ND
bis(2-Ethylhexyl)phthalate	SW8270	ND	ND	ND	1.7 J

**Key:**  $\mu\text{g/L}$  = Micrograms per liter  
 mg/L = Milligrams per liter  
 ND = Not detected  
 J = Estimated concentration  
 U = Analyte detected in associated blanks. Data unusable.

**Note:** Only analytes detected in one or more samples are included in this summary table.

**TABLE 1-26**  
**BACKGROUND ORGANIC AND INORGANIC**  
**CONCENTRATIONS IN GROUNDWATER**

Analyte	Method	59SW1WG1	59SW10WG1	59DW1WG1	59DW10WG1
<b>INORGANIC COMPOUNDS (µg/L)</b>					
Aluminum	SW6010	1,260	4,350	113 U	108 U
Barium	SW6010	174	339	123	68.6
Beryllium	SW6010	0.91 U	0.60 U	0.79 U	0.23 U
Calcium	SW6010	199,000	120,000	132,000	141,000
Chromium	SW6010	ND	8.9 J	ND	ND
Copper	SW6010	17.4	33.1	ND	ND
Iron	SW6010	692	4,820	ND	ND
Potassium	SW6010	2,500 U	3,040	1,510 U	1,950 U
Magnesium	SW6010	38,500	20,100	29,200	32,200
Manganese	SW6010	720	3,940	1.1 U	93.3
Sodium	SW6010	331,000	231,000	116,000	114,000
Nickel	SW6010	ND	21.3 J	ND	ND
Vanadium	SW6010	ND	4.6 J	ND	ND
Zinc	SW6010	31.6 U	48.5 U	24.8 U	44.7 U
Arsenic	SW7060	ND	2.8 J	ND	ND
Lead	SW7421	58.8 J	51.8 J	ND	ND
Hardness (as CaCO <sub>3</sub> )	E130.1	759 mg/L	442 mg/L	558 mg/L	667 mg/L
<b>ORGANIC COMPOUNDS (µg/L)</b>					
Aldrin	SW8080	0.0026 J	ND	0.0014 J	0.0008 J
Beta BHC	SW8080	ND	ND	ND	0.0027 J
Gamma BHC	SW8080	ND	ND	0.0035 J	0.0016 U
4,4'-DDD	SW8080	ND	ND	ND	0.0020 U
4,4'-DDT	SW8080	ND	0.0005 J	ND	ND
Endosulfan Sulfate	SW8080	0.028 J	ND	ND	ND
Heptachlor	SW8080	0.0027 J	0.0008 J	0.0015 U	ND
cis-1,2-Dichloroethene	SW8260	ND	ND	1.8	ND

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**TABLE 1-25  
BACKGROUND INORGANIC CONCENTRATIONS IN SOIL**

Analyte	Analytical Method	CONCENTRATION (MG/KG)							
		59DP18SO1 0-2' bgs	59DP18SO3 5-7' bgs	59DP19SO1 0-2' bgs	59DP19SO3 5-8' bgs	59SW10SO1 1-3' bgs	59SW10SO2 5-7' bgs	59SW10SO3 10-12' bgs	
Aluminum	SW6010	8,250	10,200	9,550	10,600	8,840	10,600	9,680	
Barium	SW6010	41.8	27.9	59.5	27.4	105	31.1	49.8	
Beryllium	SW6010	0.56 J	0.48 J	0.68	0.46 J	0.52 J	0.38 J	0.50 J	
Calcium	SW6010	1,230	229	12,000	653	17,800 J	454	295	
Cobalt	SW6010	8.9	8.5	11.9	10.0	9.4	10.2	10.0	
Chromium	SW6010	10.5	12.3	13.0	12.5	12.5	12.0	13.1	
Copper	SW6010	41.4	15.6	25.8	15.5	132	14.7	17.5	
Iron	SW6010	20,100	20,300	22,200	20,200	16,000 J	18,700 J	20,200 J	
Potassium	SW6010	888	617 J	1,380	604 J	746	600 J	798	
Magnesium	SW6010	2,950	3,080	5,010	3,190	2,890	3,050	2,920	
Manganese	SW6010	401	389	385	465	743	425	317	
Sodium	SW6010	150 U	116 U	168 J	150 U	183 J	96.4 U	171 J	
Nickel	SW6010	20.8	19.5	24.8	19.3	19.1	16.8	16.9	
Vanadium	SW6010	9.4	14.2	19.6	14.3	12.9	14.3	15.2	
Zinc	SW6010	44.7	51.2	82.8	50.9	80.8	47.0	67.6	
Arsenic	SW7060	55.4	18.2	1.6	5.0	5.0 J	5.5	6.7	
Lead	SW7421	18.0	12.3	31.3	12.7	69.6 J	11.4	13.6	
Selenium	SW7740	ND	ND	ND	ND	0.92 J	ND	ND	

Key: bgs = Below ground surface  
 mg/kg = Milligrams per kilogram  
 ND = Not detected  
 J = Estimated concentration  
 U = Analyte detected in associated blanks. Data unusable.

Note: Only analytes detected in one or more samples are included in this summary table.

**TABLE 1-24  
BACKGROUND ORGANIC CONCENTRATIONS IN SOIL**

Continued

Analyte	Analytical Method	CONCENTRATION (MG/KG)									
		59DP18SO2 2-4' bgs	59DP18SO4 7-8' bgs	59DP19SO2 2-5' bgs	59DP19SO4 8-9' bgs	59SW10SO1 1-3' bgs	59SW10SO2 5-7' bgs	59SW10SO3 10-12' bgs			
bis(2-Ethylhexyl)phthalate	SW8270	NA	NA	NA	NA	0.24 U	ND	ND			
Chrysene	SW8270	NA	NA	NA	NA	5.8	ND	ND			
Dibenz(a,h)anthracene	SW8270	NA	NA	NA	NA	0.57 J	ND	ND			
Dibenzofuran	SW8270	NA	NA	NA	NA	0.079 J	ND	ND			
Fluorene	SW8270	NA	NA	NA	NA	0.12 J	ND	ND			
Fluoranthene	SW8270	NA	NA	NA	NA	8.1	ND	ND			
Indeno(1,2,3-cd)pyrene	SW8270	NA	NA	NA	NA	2.1	ND	ND			
Phenanthrene	SW8270	NA	NA	NA	NA	2.3	ND	ND			
Pyrene	SW8270	NA	NA	NA	NA	6.9	ND	ND			
Methylene Chloride	SW8260	0.0094 U	0.015 U	0.014 U	0.011 U	0.036 U	0.023 U	0.0079 U			
Naphthalene	SW8260	ND	ND	ND	ND	ND	ND	0.0036 U			
1,2,3-Trichlorobenzene	SW8260	ND	ND	ND	ND	ND	ND	0.0026 U			
1,2,4-Trichlorobenzene	SW8260	ND	ND	ND	ND	ND	ND	0.0019 U			
Total Organic Carbon	SW9060	NA	NA	NA	NA	31,600	635	743			

**Key:** bgs = Below ground surface  
 J = Estimated concentration  
 mg/kg = Milligrams per kilogram

NA = Not analyzed  
 ND = Not detected  
 U = Analyte detected in associated blanks. Data unusable.

**Note:** Only analytes detected in one or more samples are included in this summary table.

**TABLE 1-24  
BACKGROUND ORGANIC CONCENTRATIONS IN SOIL**

Analyte	CONCENTRATION (MG/KG)									
	Analytical Method	59DP18SO2 2-4' bgs	59DP18SO4 7-8' bgs	59DP19SO2 2-5' bgs	59DP19SO4 8-9' bgs	59SW10SO1 1-3' bgs	59SW10SO2 5-7' bgs	59SW10SO3 10-12' bgs		
Aldrin	SW8080	NA	NA	NA	NA	0.0051 J	ND	ND		
Beta BHC	SW8080	NA	NA	NA	NA	0.0028 J	ND	ND		
Delta BHC	SW8080	NA	NA	NA	NA	0.0004 J	ND	ND		
4,4'-DDD	SW8080	NA	NA	NA	NA	0.0025 J	ND	ND		
4,4'-DDE	SW8080	NA	NA	NA	NA	0.0007 J	ND	ND		
4,4'-DDT	SW8080	NA	NA	NA	NA	0.017 J	ND	0.0055 J		
Dieldrin	SW8080	NA	NA	NA	NA	0.0016 J	ND	ND		
Alpha Endosulfan	SW8080	NA	NA	NA	NA	0.0017 J	ND	ND		
Beta Endosulfan	SW8080	NA	NA	NA	NA	0.029 J	ND	ND		
Endosulfan Sulfate	SW8080	NA	NA	NA	NA	0.0016 J	ND	ND		
Endrin	SW8080	NA	NA	NA	NA	0.015 J	ND	0.0021 J		
Endrinald	SW8080	NA	NA	NA	NA	0.017	ND	ND		
Heptachlor Epoxide	SW8080	NA	NA	NA	NA	0.0018 J	ND	ND		
Methoxychlor	SW8080	NA	NA	NA	NA	0.029 J	ND	ND		
Acenaphthene	SW8270	NA	NA	NA	NA	0.095 J	ND	ND		
Acenaphthylene	SW8270	NA	NA	NA	NA	0.100 J	ND	ND		
Anthracene	SW8270	NA	NA	NA	NA	0.51 J	ND	ND		
Benzo(a)anthracene	SW8270	NA	NA	NA	NA	5.9	ND	ND		
Benzo(a)pyrene	SW8270	NA	NA	NA	NA	5.2	ND	ND		
Benzo(b)fluoranthene	SW8270	NA	NA	NA	NA	10 J	ND	ND		
Benzo(g,h,i)perylene	SW8270	NA	NA	NA	NA	2.1	ND	ND		



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**TABLE 1-23  
BACKGROUND SAMPLES AND ANALYSES**

Sample ID	VOCs (SW8260)	SVOCs (SW8270)	Pesticides/ PCBs (SW8080)	Inorganics <sup>(1)</sup>	Cyanide (SW9012)	TOC (SW9060)	Hardness (E130.1)
<b>SOIL</b>							
59DP18SO1				•			
59DP18SO2	•						
59DP18SO3				•			
59DP18SO4	•						
59DP19SO1				•			
59DP19SO2	•						
59DP19SO3				•			
59DP19SO4	•						
59SW10SO1	•	•	•	•	•	•	
59SW10SO2	•	•	•	•	•	•	
59SW10SO3	•	•	•	•	•	•	
<b>GROUNDWATER</b>							
59SW1WG1	•	•	•	•	•		•
59SW10WG1	•	•	•	•	•		•
59DW1WG1	•	•	•	•	•		•
59DW10WG1	•	•	•	•	•		•
<b>SEDIMENT</b>							
59CR05SE1	•	•	•	•	•	•	
59CR06SE1	•	•	•	•	•	•	
<b>SURFACE WATER</b>							
59CR05WS1	•	•	•	•	•		•
59CR06WS1	•	•	•	•	•		•

**Key:**     •     =     Analytical method was completed for the sample  
                  =     Analytical method was not completed for the sample

<sup>(1)</sup>Inorganic analyses include SW6010, SW7060, SW7421, SW7470/7471, SW7740, and SW7841.

**TABLE 1-22  
SUMMARY OF EXISTING SOIL ANALYTICAL DATA FOR THE PLATING ROOM AREA**

Continued

Analyte	Method	Environmental Samples (mg/kg)							
		05 Unknown Depth	06 Unknown Depth	GESS#1 10.0' bgs	GESS #2 9.8' bgs	GESS#3 9.5' bgs	PRSB1 2-4' bgs	PRSB25 2-4' bgs	
Aluminum	ME20	5,930	5,050	6,150	5,050	5,880	NA	NA	
Arsenic	ME20	<5.00	38.8	7.3	<5.00	<5.00	NA	NA	
Barium	ME20	36.8	48	31.3	26.3	33	NA	NA	
Calcium	ME20	14,600	12,800	6,800	3,100	12,000	NA	NA	
Cadmium	ME20	1.72	<1.00	<1.00	2.19	<1.00	NA	NA	
Cobalt	ME20	5.55	<5.00	5.43	<5.00	5.43	NA	NA	
Chromium	ME20	43.8	19.4	21.1	265	12.4	NA	NA	
Copper	ME20	16	41.3	21.1	61.7	15.9	NA	NA	
Iron	ME20	16,100	16,500	16,200	14,800	15,800	NA	NA	
Potassium	ME20	543	393	463	383	425	NA	NA	
Magnesium	ME20	4,930	2,980	2,750	2,600	2,280	NA	NA	
Manganese	ME20	530	255	405	268	558	NA	NA	
Sodium	ME20	103	36.3	66	88	61.5	NA	NA	
Nickel	ME20	74	30	19.1	68.8	14.3	NA	NA	
Lead	ME20	12.1	32.3	19	99	9.85	NA	NA	
Vanadium	ME20	7.92	9.5	8.05	7.28	8.3	NA	NA	
Zinc	ME20	43	143	35.8	53.8	34.3	NA	NA	
Cyanide	CV10	NA	NA	<0.983	<0.976	<0.999	NA	NA	
Mercury	ME20	<0.050	0.065	<0.050	<0.050	<0.050	NA	NA	
Acetone	MV20	0.045	0.081	<0.472	<0.463	<0.450	<0.01	0.027	
Trichloroethene	MV20	0.026	<0.025	<0.472	<0.463	<0.450	0.07	0.009	
Methylene Chloride	MV20	<0.005	<0.025	<0.472	<0.463	<0.450	<0.005	<0.005	
bis(2-Ethylhexyl)phthalate	MS22	NA	NA	NA	NA	NA	NA	NA	

**Key:** mg/kg = Milligrams per kilogram  
 NA = Not Analyzed

**Note:** Only analytes detected in one or more sample are included in this summary table. A "<" symbol indicates that the analyte was not detected; the value provided is the reported detection limit.

**TABLE 1-22  
SUMMARY OF EXISTING SOIL ANALYTICAL DATA FOR THE PLATING ROOM AREA**

Continued

Analyte	Method	Environmental Samples (ng/kg)										02 Unknown Depth	03 Unknown Depth	
		019 0.5-1.0' bgs	020 0.5-1.0' bgs	021 0.5-1.0' bgs	022 0.5-1.0' bgs	025 0.5-1.0' bgs	026 0.5-1.0' bgs	027 0.5-1.0' bgs	026 0.5-1.0' bgs		027 0.5-1.0' bgs			
Aluminum	ME20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5,800	4,980
Arsenic	ME20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5.00	<5.00
Barium	ME20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	33.5	35.8
Calcium	ME20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	16,300	6,730
Cadmium	ME20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1.00	5.8
Cobalt	ME20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.13	<5.00
Chromium	ME20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	19.3	268
Copper	ME20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13.3	111
Iron	ME20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15,900	15,800
Potassium	ME20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	440	315
Magnesium	ME20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5,950	4,780
Manganese	ME20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	388	395
Sodium	ME20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	70	56.3
Nickel	ME20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25.5	108
Lead	ME20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.45	275
Vanadium	ME20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.58	6.5
Zinc	ME20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	37.5	77.3
Cyanide	CV10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ME20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.050	<0.050
Acetone	MV20	0.037	0.029	0.035	0.023	0.173	0.119	0.12	0.119	0.173	0.119	0.12	0.047	0.059
Trichloroethene	MV20	0.006	0.022	<0.005	<0.005	0.019	0.006	<0.005	0.006	0.019	0.006	<0.005	0.02	<0.005
Methylene Chloride	MV20	<0.005	<0.005	<0.005	<0.005	<0.005	0.008	0.008	0.008	<0.005	0.008	0.008	0.006	0.006
bis(2-Ethylhexyl)phthalate	MS22	NA	NA	NA	NA	<0.332	<0.326	<0.332	<0.326	<0.332	<0.326	<0.332	NA	NA

**TABLE 1-22  
SUMMARY OF EXISTING SOIL ANALYTICAL DATA FOR THE PLATING ROOM AREA**

Continued

Analyte	Method	Environmental Samples (mg/kg)															
		010 0.5-1.0' bgs	011 0.5-1.0' bgs	012 0.5-1.0' bgs	013 0.5-1.0' bgs	014 0.5-1.0' bgs	015 0.5-1.0' bgs	016 0.5-1.0' bgs	017 0.5-1.0' bgs	018 0.5-1.0' bgs							
Aluminum	ME20	3,330	3,380	4,180	3,180	2,300	3,200	2,340	3,180	3,180	4,030						
Arsenic	ME20	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00						
Barium	ME20	37.5	28.3	35.8	30.3	27.5	27.7	20.3	29.3	29.3	40.3						
Calcium	ME20	115,000	54,200	58,300	54,600	91,900	48,300	41,600	43,900	43,900	55,000						
Cadmium	ME20	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00						
Cobalt	ME20	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00						
Chromium	ME20	5.83	5.17	6.08	3.9	4.88	5.53	3.1	5.63	5.63	7.05						
Copper	ME20	14.4	14.3	17.5	12.7	11.8	13.8	9.55	14	14	14.9						
Iron	ME20	8,530	9,230	10,500	8,580	8,750	8,380	5,230	7,830	7,830	10,400						
Potassium	ME20	418	383	345	253	219	278	229	298	298	363						
Magnesium	ME20	5,380	6,500	7,530	6,500	32,800	6,000	3,930	5,800	5,800	6,480						
Manganese	ME20	253	273	318	213	303	273	169	293	293	420						
Sodium	ME20	86	90	75.5	63.3	163	66	56	87.3	87.3	109						
Nickel	ME20	7.28	8.05	9.68	7.25	5.23	8.73	5.15	6.87	6.87	8.3						
Lead	ME20	4.58	5.83	6.65	3.85	3.98	6.55	3.08	5.88	5.88	6.53						
Vanadium	ME20	<5.00	<5.00	5.95	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	5.38						
Zinc	ME20	24.8	26.5	33.8	28.3	20.9	29.5	18.4	26.5	26.5	34.3						
Cyanide	CV10	<1.00	<1.00	<1.00	1.11	<1.00	<1.00	<1.00	1.03	1.03	<1.00						
Mercury	ME20	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050						
Acetone	MV20	0.461	0.079	0.059	0.313	0.073	0.094	0.085	0.049	0.049	0.059						
Trichloroethene	MV20	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005						
Methylene Chloride	MV20	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005						
bis(2-Ethylhexyl)phthalate	MS22	NA	NA	0.471	NA	NA	0.471	NA	NA	NA	NA						

**TABLE 1-22  
SUMMARY OF EXISTING SOIL ANALYTICAL DATA FOR THE PLATING ROOM AREA**

Analyte	Method	Environmental Samples (mg/kg)									
		001 0.5-1.0' bgs	002 0.5-1.0' bgs	003 0.5-1.0' bgs	004 0.5-1.0' bgs	005 0.5-1.0' bgs	006 0.5-1.0' bgs	007 0.5-1.0' bgs	008 0.5-1.0' bgs	009 0.5-1.0' bgs	
Aluminum	ME20	2,830	3,080	2,350	3,830	3,380	3,880	3,980	2,380	3,950	
Arsenic	ME20	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	
Barium	ME20	24.5	17.5	25.8	35	47	25.5	33.5	22.2	34.3	
Calcium	ME20	65,600	41,200	154,000	39,300	47,100	51,500	53,800	65,600	68,800	
Cadmium	ME20	<1.00	<1.00	<1.00	1.24	<1.00	6.33	84.3	<1.00	<1.00	
Cobalt	ME20	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	
Chromium	ME20	4.85	8.05	3.43	16.5	7.75	410	305	18	38.5	
Copper	ME20	12.3	8.35	8.18	38.8	44.8	41.8	137	18.8	20.2	
Iron	ME20	8,150	4,250	6,630	10,200	8,780	8,500	9,050	7,280	10,400	
Potassium	ME20	328	283	333	345	402	515	380	443	363	
Magnesium	ME20	9,550	4,180	7,400	5,880	6,080	7,200	6,380	11,000	11,000	
Manganese	ME20	260	121	265	330	320	318	528	239	303	
Sodium	ME20	176	108	107	80.5	82.8	163	132	133	205	
Nickel	ME20	7.05	5.15	5.05	9.9	42.5	295	78.5	6.35	11.9	
Lead	ME20	8.63	3.4	4.88	7.55	8.08	2,350	15.1	8.23	12.2	
Vanadium	ME20	<5.00	<5.00	<5.00	5.17	<5.00	5.68	5.23	<5.00	5.85	
Zinc	ME20	26.3	15	17.5	32.8	32.8	38	72.3	22.8	35.8	
Cyanide	CV10	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	2.12	<1.00	
Mercury	ME20	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.071	
Acetone	MV20	0.071	0.042	0.205	1.54	0.183	0.235	1.37	0.997	0.936	
Trichloroethene	MV20	0.024	<0.005	<0.005	0.014	0.071	0.014	0.005	0.011	<0.005	
Methylene Chloride	MV20	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
bis(2-Ethylhexyl)phthalate	MS22	<0.344	NA	NA	<0.332	NA	0.471	NA	NA	0.471	

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TABLE 1-21  
AIR FORCE PLANT 59  
SURFACE WATER DATA SUMMARY FOR HARDNESS (E130.1)

Parameters	PQL	Action Levels (2)	Environmental Samples (mg/l) (1)			Method Blanks (mg/l)
			Field ID 59CR04WS1 Lab ID 648845	Field ID 59CR04WS9 Lab ID 648851	Field ID  Lab ID	Lab ID (3)
HARDNESS			146	151		ND

Parameters	PQL	Action Levels (2)	Environmental Samples (mg/l) (1)			Method Blanks (mg/l)
			Field ID 59CR01WS1 Lab ID 649348	Field ID 59CR02WS1 Lab ID 649343	Field ID 59CR06WS1 Lab ID 649356	Lab ID (3)
HARDNESS			134	332	124	ND

Parameters	PQL	Action Levels (2)	Environmental Samples (mg/l) (1)			Method Blanks (mg/l)
			Field ID 59CR05WS1 Lab ID 649817	Field ID  Lab ID	Field ID  Lab ID	Lab ID (3)
HARDNESS			98			ND

- (1) There are no field blanks associated with samples analyzed for E130.1  
(2) There are no action levels for hardness.  
(3) The method blank was not given a Lab ID.



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TABLE 1-20  
AIR FORCE PLANT 59  
SURFACE WATER DATA SUMMARY FOR SVOCs (SW8270)

Parameters	PQL	Action Levels	Environmental Samples (ug/l)			Field Blanks (ug/l)	Method Blank (ug/l)
			Field ID 59CR04WS1 Lab ID 648842	Field ID 59CR04WS9 Lab ID 648848	Field ID Lab ID	Equipment Field ID EB2102094 Lab ID 649805	Lab ID 649967
bis(2-ethylhexyl)phthalate	15	0.6 (1)	2.0 J	3.0 J		ND	ND
Nitrobenzene-D5 (2)	27-101		87	98		83	92
2,4,6-Tribromophenol (2)	24-104		170	170		180	190
2-Fluorophenol (2)	19-73		100	110		100	140
Phenol-D5 (2)	15-53		72	79		66	98
2-Fluorobiphenyl (2)	36-102		81	80		76	85
Terphenyl-D14 (2)	31-125		76	77		94	85

Parameters	PQL	Action Levels	Environmental Samples (ug/l)			Field Blanks (ug/l)	Method Blank (ug/l)
			Field ID 59CR01WS1 Lab ID 649345	Field ID 59CR02WS1 Lab ID 649340	Field ID 59CR06WS1 Lab ID 649353	Equipment Field ID EB2102094 Lab ID 649805	Lab ID 649967
bis(2-ethylhexyl)phthalate	15	0.6 (1)	ND	ND	ND	ND	ND
Nitrobenzene-D5 (2)	27-101		89	80	83	83	92
2,4,6-Tribromophenol (2)	24-104		190	170	170	180	190
2-Fluorophenol (2)	19-73		120	99	95	100	140
Phenol-D5 (2)	15-53		82	71	68	66	98
2-Fluorobiphenyl (2)	36-102		86	77	78	76	85
Terphenyl-D14 (2)	31-125		85	72	77	94	85

Parameters	PQL	Action Levels	Environmental Samples (ug/l)			Field Blanks (ug/l)	Method Blank (ug/l)
			Field ID 59CR05WS1 Lab ID 649814	Field ID Lab ID	Field ID Lab ID	Equipment Field ID EB2102094 Lab ID 649805	Lab ID 651042
bis(2-ethylhexyl)phthalate	15	0.6 (1)	ND			ND	ND
Nitrobenzene-D5 (2)	27-101		63			83	93
2,4,6-Tribromophenol (2)	24-104		170			180	190
2-Fluorophenol (2)	19-73		81			100	120
Phenol-D5 (2)	15-53		38			66	78
2-Fluorobiphenyl (2)	36-102		60			76	86
Terphenyl-D14 (2)	31-125		66			94	94

(1) NY Surface Water Standards from Water Quality Regulations: Surface Water and Groundwater Classifications and Standards for Class C Surface Water, 1991.

(2) Surrogate - Control limits are listed in PQL column.

Qualifiers: U = Blank Contamination

J = Estimated; UJ = Estimated for Non-detect

TABLE 1-19  
 AIR FORCE PLANT 59  
 SURFACE WATER ANALYTICAL DATA SUMMARY  
 FOR VOLATILE ORGANIC COMPOUNDS (SW8260)

Parameters	PQL	Action Levels (1)	Environmental Samples (ug/l)		Field Blanks (ug/l)		Equipment		Method Blank (ug/l)
			Field ID 59CR04WSI Lab ID 648841	Field ID 59CR04WS9 Lab ID 648847	Field ID Lab ID	Trip Field ID TB1101894 Lab ID 648846	Field ID EB2102094 Lab ID 649804	Ambient Field ID AB1102094 Lab ID 651057	
Bromodichloromethane	0.50		ND	ND	ND	ND	ND	ND	ND
Bromofluorobenzene	86-115	(2)	4.4	4.5	4.7	4.8	4.3	5.0	5.0
Toluene-D8	88-110	(2)	4.9	4.7	5.1	4.9	4.5	5.2	5.2
Chlorodibromomethane	0.50		ND	ND	ND	ND	ND	ND	ND
Dibromofluoromethane	86-118	(2)	5.6	5.4	5.4	5.5	5.8	5.1	5.1
Dichlorodifluoromethane	1.0		ND	ND	ND	ND	ND	ND	ND
Methylene chloride	15		0.53	0.66	1.2	0.81	0.93	1.4	1.4
Bromoform	0.50		ND	ND	ND	ND	ND	ND	ND
Chloroform	0.75		ND	ND	ND	ND	ND	ND	ND

(1) There are no action levels for these compounds in NY Surface Water Standards from Water Quality Regulations: Surface Water and Groundwater Classifications and Standards for Class C Surface Waters, 1991

(2) Surrogate - Control limits are listed in PQL column.

Qualifiers: U = Blank Contamination

J = Estimated; UJ = Estimated for Non-detect

TABLE 1-19  
 AIR FORCE PLANT 59  
 SURFACE WATER ANALYTICAL DATA SUMMARY  
 FOR VOLATILE ORGANIC COMPOUNDS (SW8260)

Parameters	Action Levels (1)	Environmental Samples (ug/l)				Field Blanks (ug/l)				Method Blank (ug/l)		
		Field ID		Lab ID		Trip		Equipment			Ambient	
		59CR05WS1	649813	59CR01WS1	649344	TB1102094	Lab ID 649809	EB2102094	Lab ID 649804		AB1102094	Lab ID 651057
Bromodichloromethane	0.50	ND				ND		ND		ND		ND
Bromofluorobenzene	86-115	4.5				4.6		4.8		4.3		4.5
Toluene-D8	88-110	4.6				4.8		4.9		4.5		4.9
Chlorodibromomethane	0.50	ND				ND		ND		ND		ND
Dibromofluoromethane	86-118	5.2				5.4		5.5		5.8		5.2
Dichlorodifluoromethane	1.0	ND				ND		ND		ND		ND
Methylene chloride	15	0.71	U			1.1	U	0.81	U	0.93	U	ND
Bromoform	0.50	ND				ND		ND		ND		ND
Chloroform	0.75	ND				ND		ND		ND		ND

Parameters	Action Levels (1)	Environmental Samples (ug/l)				Field Blanks (ug/l)				Method Blank (ug/l)		
		Field ID		Lab ID		Trip		Equipment			Ambient	
		59CR02WS1	649339	59CR01WS1	649344	TB1101994	Lab ID 649367	EB2102094	Lab ID 649804		AB1102094	Lab ID 651057
Bromodichloromethane	0.50	0.60		ND		ND		ND		ND		ND
Bromofluorobenzene	86-115	4.6		4.4		4.5		4.8		4.3		4.5
Toluene-D8	88-110	5.2		4.8		4.9		4.9		4.5		4.8
Chlorodibromomethane	0.50	0.96		ND		ND		ND		ND		ND
Dibromofluoromethane	86-118	5.2	J	5.1		5.2		5.5		5.8		4.9
Dichlorodifluoromethane	1.0	0.38		ND		ND		ND		ND		ND
Methylene chloride	15	ND		ND		0.44	U	0.81	U	0.93	U	ND
Bromoform	0.50	1.1		ND		ND		ND		ND		ND
Chloroform	0.75	0.33	J	ND		ND		ND		ND		ND

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TABLE 1-18  
 AIR FORCE PLANT 59  
 SURFACE WATER DATA SUMMARY FOR PCB/PESTICIDE (SW8080)

Parameters	Action Levels	PQL	Environmental Samples (ug/L)												Field Blanks (ug/L)			Method Blank (ug/L)					
			59CR02WS1						59CR06WS1						Equipment			Lab ID					
			IC	2C	PR	IC	2C	PR	IC	2C	PR	IC	2C	PR	IC	2C	PR	IC	2C	PR			
Aldrin	0.001 (2)	0.025	0.0060	0.020	ND	0.0060	J	0.0060	J	ND	0.0060	J	0.0060	J	ND	0.0060	J	ND	0.0060	J	0.0007	ND	ND
beta-BHC	0.001 (2)	0.050	0.0073	0.015	ND	0.0073	U	0.0073	U	ND	0.0073	U	0.0073	U	ND	0.0073	U	ND	0.0073	U	0.0005	ND	ND
delta-BHC	0.001 (2)	0.010	0.0074	0.0074	ND	0.0074	J	0.0074	J	ND	0.0074	J	0.0074	J	ND	0.0074	J	ND	0.0074	J	0.0005	ND	ND
gamma-BHC (Lindane)	0.001 (2)	0.025	0.014	0.057	0.16	0.014	U	0.014	U	ND	0.014	U	0.014	U	ND	0.014	U	ND	0.014	U	0.0026	ND	ND
Decachlorobiphenyl (1)	0.001 (2)	20-150	0.0073	0.015	0.0073	0.015	U	0.0073	U	0.0073	0.015	U	0.0073	U	0.0073	0.015	U	0.0073	U	0.0073	0.011	0.011	0.011
4,4 -DDD	0.001 (2)	0.050	0.014	0.057	0.0060	0.014	U	0.014	U	0.0060	0.014	U	0.014	U	0.0060	0.014	U	0.0060	U	0.0060	0.011	0.011	0.011
4,4 -DDE	0.001 (2)	0.050	0.0073	0.015	0.0073	0.015	U	0.0073	U	0.0073	0.015	U	0.0073	U	0.0073	0.015	U	0.0073	U	0.0073	0.011	0.011	0.011
4,4 -DDT	0.001 (2)	0.075	0.0073	0.015	0.0073	0.015	U	0.0073	U	0.0073	0.015	U	0.0073	U	0.0073	0.015	U	0.0073	U	0.0073	0.011	0.011	0.011
Dieldrin	0.001 (2)	0.050	0.0073	0.015	0.0073	0.015	U	0.0073	U	0.0073	0.015	U	0.0073	U	0.0073	0.015	U	0.0073	U	0.0073	0.011	0.011	0.011
Endosulfan I	0.009 (2)	0.025	0.014	0.057	0.014	0.057	U	0.014	U	0.014	0.057	U	0.014	U	0.014	0.057	U	0.014	U	0.014	0.011	0.011	0.011
Endosulfan II	0.009 (2)	0.025	0.014	0.057	0.014	0.057	U	0.014	U	0.014	0.057	U	0.014	U	0.014	0.057	U	0.014	U	0.014	0.011	0.011	0.011
Endosulfan sulfate	0.002 (2)	0.025	0.0046	0.13	0.0046	0.13	U	0.0046	U	0.0046	0.13	U	0.0046	U	0.0046	0.13	U	0.0046	U	0.0046	0.0066	0.0066	0.0066
Endrin	0.002 (2)	0.050	0.0046	0.13	0.0046	0.13	U	0.0046	U	0.0046	0.13	U	0.0046	U	0.0046	0.13	U	0.0046	U	0.0046	0.0066	0.0066	0.0066
Endrin aldehyde	0.001 (2)	0.075	0.0046	0.13	0.0046	0.13	U	0.0046	U	0.0046	0.13	U	0.0046	U	0.0046	0.13	U	0.0046	U	0.0046	0.0066	0.0066	0.0066
Heptachlor epoxide	0.001 (2)	0.050	0.0046	0.13	0.0046	0.13	U	0.0046	U	0.0046	0.13	U	0.0046	U	0.0046	0.13	U	0.0046	U	0.0046	0.0066	0.0066	0.0066
Heptachlor	0.001 (2)	0.025	0.0046	0.13	0.0046	0.13	U	0.0046	U	0.0046	0.13	U	0.0046	U	0.0046	0.13	U	0.0046	U	0.0046	0.0066	0.0066	0.0066
Methoxychlor	0.03 (2)	0.025	0.0046	0.13	0.0046	0.13	U	0.0046	U	0.0046	0.13	U	0.0046	U	0.0046	0.13	U	0.0046	U	0.0046	0.0066	0.0066	0.0066
Tetrachloro-m-xylene (1)	0.03 (2)	56-140	0.0046	0.13	0.0046	0.13	U	0.0046	U	0.0046	0.13	U	0.0046	U	0.0046	0.13	U	0.0046	U	0.0046	0.0066	0.0066	0.0066





TABLE I-17  
 AIR FORCE PLANT 59  
 SURFACE WATER DATA SUMMARY FOR METALS (SW6010, SW7060, SW7421, SW7470, SW7740, SW7841, SW9012)

Parameters	PQL	Action Levels	Environmental Samples (ug/l)			Field Blanks (ug/l)	Method Blanks (ug/l)
			Field ID 59CR05WS1 Lab ID 649816	Field ID Lab ID	Field ID Lab ID	Equipment Field ID EB2102094 Lab ID 649807	Lab ID 655674
Silver (Ag)	0.0080	0.1 (1)	ND			ND	ND
Aluminum (Al)	0.12	100 (1)	57.8 U			64.2 U	39.981
Arsenic (As)	0.018	190 (1)	2.1 J			ND	ND
Barium (Ba)	0.0040	1000 (2)	ND			63.7	0.681
Calcium (Ca)	1.0		62.4 U			104000	22.622
Chromium (Cr)	0.019	11 (1)	ND			ND	ND
Copper (Cu)	0.010	200 (2)	ND			40.3	ND
Iron (Fe)	0.12	300 (1)	ND			201	ND
Potassium (K)	2.2		ND			1800 J	ND
Magnesium (Mg)	0.058		ND			18500	ND
Manganese (Mn)	0.0035	500 (2)	ND			3.6	ND
Sodium (Na)	0.44	20000 (2)	573 U			41000	150.720
Lead (Pb)	0.0075	15 (3)	ND			ND	ND
Zinc (Zn)	0.0095	30 (1)	5.8 J			35.6	ND

(1) NY Surface Water Quality Criteria based on Water Quality Regulations: Surface Water and Groundwater and Standards for Class C Surface Waters, 1991

(2) NY Groundwater Standard from Surface Water and Groundwater Classifications and Standards, 1991.

(3) Federal Primary MCL

Qualifiers: UJ = Estimated for Non-detect

J = Estimated; U = Blank Contamination

TABLE I-17  
AIR FORCE PLANT 59  
SURFACE WATER DATA SUMMARY FOR METALS (SW6010, SW7060, SW7421, SW7470, SW7740, SW7841, SW9012)

Parameters	PQL	Action Levels	Environmental Samples (ug/l)			Field Blanks (ug/l)	Method Blanks(ug/l)
			Field ID 59CR01WS1 Lab ID 649347	Field ID 59CR02WS1 Lab ID 649342	Field ID 59CR06WS1 Lab ID 649355	Equipment Field ID EB2102094 Lab ID 649807	Lab ID 655674
Silver (Ag)	0.0080	0.1 (1)	ND	ND	36.2	ND	ND
Aluminum (Al)	0.12	100 (1)	110 U	93.4 U	65.4 U	64.2 U	39.981
Arsenic (As)	0.018	190 (1)	ND	2.9 J	2.2 J	ND	ND
Barium (Ba)	0.0040	1000 (2)	24.0	64.0	20.1	63.7	0.681
Calcium (Ca)	1.0		36100	93900	30400	104000	22.622
Chromium (Cr)	0.019	11 (1)	ND	ND	ND	ND	ND
Copper (Cu)	0.010	200 (2)	ND	13.3	ND	40.3	ND
Iron (Fe)	0.12	300 (1)	63.4	665	84.5	201	ND
Potassium (K)	2.2		2130 J	1790 J	2360	1800 J	ND
Magnesium (Mg)	0.058		7460	16700	6870	18500	ND
Manganese (Mn)	0.0035	500 (2)	3.5	34.5	4.4	3.6	ND
Sodium (Na)	0.44	20000 (2)	28900	38300	28700	41000	150.720
Lead (Pb)	0.0075	15 (3)	ND	3.2 J	ND	ND	ND
Zinc (Zn)	0.0095	30 (1)	17.5	29.9	21.1	35.6	ND

Parameters	PQL	Action Levels	Environmental Samples (ug/l)			Field Blanks (ug/l)	Method Blanks(ug/l)
			Field ID 59CR04WS1 Lab ID 648844	Field ID 59CR04WS9 Lab ID 648850	Field ID Lab ID	Equipment Field ID EB2102094 Lab ID 649807	Lab ID 655674
Silver (Ag)	0.0080	0.1 (1)	ND	ND		ND	ND
Aluminum (Al)	0.12	100 (1)	108 U	110 U		64.2 U	39.981
Arsenic (As)	0.018	190 (1)	2.3 J	1.7 J		ND	ND
Barium (Ba)	0.0040	1000 (2)	37.0	35.5		63.7	0.681
Calcium (Ca)	1.0		44300	42600		104000	22.622
Chromium (Cr)	0.019	11 (1)	6.5 J	5.5 J		ND	ND
Copper (Cu)	0.010	200 (2)	ND	ND		40.3	ND
Iron (Fe)	0.12	300 (1)	63.4	127		201	ND
Potassium (K)	2.2		1340 J	1400 J		1800 J	ND
Magnesium (Mg)	0.058		8100	7770		18500	ND
Manganese (Mn)	0.0035	500 (2)	13.0	12.3		3.6	ND
Sodium (Na)	0.44	20000 (2)	16300	15500		41000	150.720
Lead (Pb)	0.0075	15 (3)	ND	ND		ND	ND
Zinc (Zn)	0.0095	30 (1)	11.7	11.7		35.6	ND

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TABLE 1-16  
AIR FORCE PLANT 59  
GROUNDWATER DATA SUMMARY FOR HARDNESS (E130.1)

Parameters	PQL	Action Levels (2)	Environmental Samples (mg/l) (1)			Method Blanks (mg/l)
			Field ID 59SW5WG1 Lab ID 661566	Field ID 59SW8WG1 Lab ID 661568	Field ID Lab ID	Lab ID PBW
HARDNESS			728	425		3.0

Parameters	PQL	Action Levels (2)	Environmental Samples (mg/l) (1)			Method Blanks (mg/l)
			Field ID 59DW10WG1 Lab ID 662317	Field ID 59DW1WG1 Lab ID 662311	Field ID 59DW5WG1 Lab ID 662299	Lab ID PBW
HARDNESS			667	558	522	3.0

Parameters	PQL	Action Levels (2)	Environmental Samples (mg/l) (1)			Method Blanks (mg/l)
			Field ID 59SW7WG1 Lab ID 662305	Field ID Lab ID	Field ID Lab ID	Lab ID PBW
HARDNESS			625			3.0

- (1) There are no field blanks associated with samples analyzed for E130.1
- (2) There are no action levels for hardness.
- (3) The method blank was not given a Lab ID.

TABLE 1-16  
AIR FORCE PLANT 59  
GROUNDWATER DATA SUMMARY FOR HARDNESS (E130.1)

Parameters	PQL	Action Levels (2)	Environmental Samples (mg/l) (1)			Method Blanks (mg/l)
			Field ID 59DPWWG1 Lab ID 665952	Field ID Lab ID	Field ID Lab ID	Lab ID (3)
HARDNESS			551			ND

Parameters	PQL	Action Levels (2)	Environmental Samples (mg/l) (1)			Method Blanks (mg/l)
			Field ID 59DW3WG1 Lab ID 663237	Field ID 59SW6WG1 Lab ID 663206	Field ID Lab ID	Lab ID PBW
HARDNESS			637	875		3.0

Parameters	PQL	Action Levels (2)	Environmental Samples (mg/l) (1)			Method Blanks (mg/l)
			Field ID 59DW13WG1 Lab ID 663576	Field ID Lab ID	Field ID Lab ID	Lab ID PBW
HARDNESS			578			3.0

Parameters	PQL	Action Levels (2)	Environmental Samples (mg/l) (1)			Method Blanks (mg/l)
			Field ID 59SW10WG1 Lab ID 660972	Field ID 59SW12WG1 Lab ID 660962	Field ID 59SW1WG1 Lab ID 660977	Lab ID PBW
HARDNESS			442	351	759	3.0

Parameters	PQL	Action Levels (2)	Environmental Samples (mg/l) (1)			Method Blanks (mg/l)
			Field ID 59DW6WG1 Lab ID 662224	Field ID 59DW8WG1 Lab ID 662217	Field ID 59SW13WG1 Lab ID 661564	Lab ID PBW
HARDNESS			454	692	802	3.0

TABLE 1-16  
AIR FORCE PLANT 59  
GROUNDWATER DATA SUMMARY FOR HARDNESS (E130.1)

Parameters	PQL	Action Levels (2)	Environmental Samples (mg/l) (1)			Method Blanks (mg/l)
			Field ID 59DW9WG1 Lab ID 663606	Field ID 59IW13WG1 Lab ID 667054	Field ID 59SW3WG1 Lab ID 663593	Lab ID (3)
HARDNESS			656	858	335	ND

Parameters	PQL	Action Levels (2)	Environmental Samples (mg/l) (1)			Method Blanks (mg/l)
			Field ID 59SW3WG9 Lab ID 663612	Field ID Lab ID	Field ID Lab ID	Lab ID (3)
HARDNESS			348			ND

Parameters	PQL	Action Levels (2)	Environmental Samples (mg/l) (1)			Method Blanks (mg/l)
			Field ID 59DW12WG1 Lab ID 663812	Field ID 59SW9WG1 Lab ID 663823	Field ID Lab ID	Lab ID (3)
HARDNESS			693	416		ND

Parameters	PQL	Action Levels (2)	Environmental Samples (mg/l) (1)			Method Blanks (mg/l)
			Field ID 59DW11WG1 Lab ID 664244	Field ID 59DW4WG1 Lab ID 664255	Field ID 59IW9WG1 Lab ID 664218	Lab ID (3)
HARDNESS			587	577	570	ND

Parameters	PQL	Action Levels (2)	Environmental Samples (mg/l) (1)			Method Blanks (mg/l)
			Field ID 59SW11WG1 Lab ID 664226	Field ID 59SW4WG1 Lab ID 664238	Field ID 59SW11WG9 Lab ID 664232	Lab ID (3)
HARDNESS			459	387	441	ND

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TABLE 1-15  
AIR FORCE PLANT 59  
GROUNDWATER DATA SUMMARY FOR SVOCs (SW8270)

Parameters	PQL	Action Levels	Environmental Samples (ug/l)			Field Blanks (ug/l)	Method Blank (ug/l)
			Field ID 59SW10WGI Lab ID 660969	Field ID 59SW12WGI Lab ID 660953	Field ID 59SW1WGI Lab ID 660974	Equipment Field ID EB1112894 Lab ID 660980	Lab ID 661255
bis(2-ethylhexyl)phthalate	15	6 (1)	ND	1.5 J	ND	ND	ND
Di-n-butylphthalate	40	50 (2)	ND	ND	ND	ND	ND
Nitrobenzene-D5 (3)	27-101		80	90	70	70	80
2,4,6-Tribromophenol (3)	24-104		90	140	110	150	160
2-Fluorophenol (3)	19-73		60	90	80	90	100
Phenol-D5 (3)	15-53		50	60	50	60	70
2-Fluorobiphenyl (3)	36-102		70	70	60	60	80
Terphenyl-D14 (3)	31-125		80	80	80	90	80
Phenol	10	1 (2)	ND	ND	ND	ND	ND

Parameters	PQL	Action Levels	Environmental Samples (ug/l)			Field Blanks (ug/l)	Method Blank (ug/l)
			Field ID 59SW13WGI Lab ID 661549	Field ID 59SW5WGI Lab ID 661551	Field ID 59SW8WGI Lab ID 661553	Equipment Field ID EB1112994 Lab ID 661550	Lab ID 662146
bis(2-ethylhexyl)phthalate	15	6 (1)	ND	ND	ND	ND	ND
Di-n-butylphthalate	40	50 (2)	ND	ND	ND	ND	ND
Nitrobenzene-D5 (3)	27-101		70	50	70	60	80
2,4,6-Tribromophenol (3)	24-104		10	170	110	210	210
2-Fluorophenol (3)	19-73		0.94	80	5.4	100	110
Phenol-D5 (3)	15-53		0.037	50	2.7	70	80
2-Fluorobiphenyl (3)	36-102		90	60	90	80	80
Terphenyl-D14 (3)	31-125		120	70	130	100	110
Phenol	10	1 (2)	ND	ND	ND	ND	ND

Parameters	PQL	Action Levels	Environmental Samples (ug/l)			Field Blanks (ug/l)	Method Blank (ug/l)
			Field ID 59SW8WG9 Lab ID 661552	Field ID Lab ID	Field ID Lab ID	Equipment Field ID EB1112994 Lab ID 661550	Lab ID 662146
bis(2-ethylhexyl)phthalate	15	6 (1)	ND			ND	ND
Di-n-butylphthalate	40	50 (2)	ND			ND	ND
Nitrobenzene-D5 (3)	27-101		60			60	80
2,4,6-Tribromophenol (3)	24-104		120			210	210
2-Fluorophenol (3)	19-73		3.4			100	110
Phenol-D5 (3)	15-53		1.4			70	80
2-Fluorobiphenyl (3)	36-102		80			80	80
Terphenyl-D14 (3)	31-125		100			100	110
Phenol	10	1 (2)	ND			ND	ND

(1) Federal Primary MCLs  
(2) NY Groundwater Standards from Water Quality Regulations: Surface Water and Groundwater Classifications and Standards, Title 6, Chapter X, 1991.  
(3) Surrogate - Control limits are listed in PQL column.  
Qualifiers: U = Blank Contamination  
J = Estimated; UJ = Estimated for Non-detect



TABLE 1-15  
AIR FORCE PLANT 59  
GROUNDWATER DATA SUMMARY FOR SVOCs (SW8270)

Parameters	PQL	Action Levels	Environmental Samples (ug/l)			Field Blanks (ug/l)	Method Blank (ug/l)
			Field ID 59IW13WG1 Lab ID 667048	Field ID Lab ID	Field ID Lab ID	Equipment Field ID EB112294 Lab ID 663615	Lab ID 667068
bis(2-ethylhexyl)phthalate	15	6 (1)	ND			ND	ND
Di-n-butylphthalate	40	50 (2)	ND			ND	ND
Nitrobenzene-D5 (3)	27-101		70			50	60
2,4,6-Tribromophenol (3)	24-104		1.6			140	190
2-Fluorophenol (3)	19-73		0.26			70	80
Phenol-D5 (3)	15-53		0.043			40	60
2-Fluorobiphenyl (3)	36-102		80			60	70
Terphenyl-D14 (3)	31-125		90			70	100
Phenol	10	1 (2)	ND			ND	ND

Parameters	PQL	Action Levels	Environmental Samples (ug/l)			Field Blanks (ug/l)	Method Blank (ug/l)
			Field ID 59IW9WG1 Lab ID 664212	Field ID Lab ID	Field ID Lab ID	Equipment Field ID EB112594 Lab ID 664205	Lab ID 667794
bis(2-ethylhexyl)phthalate	15	6 (1)	ND			ND	ND
Di-n-butylphthalate	40	50 (2)	ND			ND	2.6
Nitrobenzene-D5 (3)	27-101		80			70	80
2,4,6-Tribromophenol (3)	24-104		160			130	140
2-Fluorophenol (3)	19-73		70			60	80
Phenol-D5 (3)	15-53		50			40	60
2-Fluorobiphenyl (3)	36-102		60			60	60
Terphenyl-D14 (3)	31-125		70			60	70
Phenol	10	1 (2)	3.0 J			ND	ND

Parameters	PQL	Action Levels	Environmental Samples (ug/l)			Field Blanks (ug/l)	Method Blank (ug/l)
			Field ID 59DPWWG1 Lab ID 665949	Field ID Lab ID	Field ID Lab ID	Equipment Field ID Lab ID	Lab ID 667869
bis(2-ethylhexyl)phthalate	15	6 (1)	ND				ND
Di-n-butylphthalate	40	50 (2)	ND				ND
Nitrobenzene-D5 (3)	27-101		90				90
2,4,6-Tribromophenol (3)	24-104		140				160
2-Fluorophenol (3)	19-73		50				110
Phenol-D5 (3)	15-53		30				80
2-Fluorobiphenyl (3)	36-102		80				80
Terphenyl-D14 (3)	31-125		80				80
Phenol	10	1 (2)	ND				ND

TABLE 1-15  
AIR FORCE PLANT 59  
GROUNDWATER DATA SUMMARY FOR SVOCs (SW8270)

Parameters	PQL	Action Levels	Environmental Samples (ug/l)			Field Blanks (ug/l)	Method Blank (ug/l)
			Field ID 59DW12WG1 Lab ID 663809	Field ID 59SW9WG1 Lab ID 663820	Field ID Lab ID	Equipment Field ID EB112394 Lab ID 663815	Lab ID 664206
bis(2-ethylhexyl)phthalate	15	6 (1)	4.2 J	ND		ND	ND
Di-n-butylphthalate	40	50 (2)	ND	ND		ND	ND
Nitrobenzene-D5 (3)	27-101		70	60		60	60
2,4,6-Tribromophenol (3)	24-104		120	170		140	180
2-Fluorophenol (3)	19-73		20	90		70	90
Phenol-D5 (3)	15-53		20	60		50	60
2-Fluorobiphenyl (3)	36-102		70	60		50	70
Terphenyl-D14 (3)	31-125		70	90		70	90
Phenol	10	1 (2)	ND	ND		ND	ND

Parameters	PQL	Action Levels	Environmental Samples (ug/l)			Field Blanks (ug/l)	Method Blank (ug/l)
			Field ID 59DW11WG1 Lab ID 664241	Field ID 59DW4WG1 Lab ID 664252	Field ID Lab ID	Equipment Field ID EB112494 Lab ID 664247	Lab ID 666119
bis(2-ethylhexyl)phthalate	15	6 (1)	5.9 J	ND		ND	ND
Di-n-butylphthalate	40	50 (2)	ND	ND		ND	ND
Nitrobenzene-D5 (3)	27-101		70	80		70	70
2,4,6-Tribromophenol (3)	24-104		180	150		200	180
2-Fluorophenol (3)	19-73		40	30		90	90
Phenol-D5 (3)	15-53		20	20		60	50
2-Fluorobiphenyl (3)	36-102		80	80		80	80
Terphenyl-D14 (3)	31-125		90	110		110	90
Phenol	10	1 (2)	ND	ND		ND	ND

Parameters	PQL	Action Levels	Environmental Samples (ug/l)			Field Blanks (ug/l)	Method Blank (ug/l)
			Field ID 59SW11WG1 Lab ID 664223	Field ID 59SW11WG9 Lab ID 664229	Field ID 59SW4WG1 Lab ID 664235	Equipment Field ID EB112494 Lab ID 664247	Lab ID 666119
bis(2-ethylhexyl)phthalate	15	6 (1)	ND	ND	ND	ND	ND
Di-n-butylphthalate	40	50 (2)	ND	ND	ND	ND	ND
Nitrobenzene-D5 (3)	27-101		70	70	60	70	70
2,4,6-Tribromophenol (3)	24-104		8.4	5.9	190	200	180
2-Fluorophenol (3)	19-73		ND	ND	80	90	90
Phenol-D5 (3)	15-53		ND	ND	50	60	50
2-Fluorobiphenyl (3)	36-102		80	80	70	80	80
Terphenyl-D14 (3)	31-125		120	110	90	110	90
Phenol	10	1 (2)	ND	ND	ND	ND	ND

TABLE 1-15  
AIR FORCE PLANT 59  
GROUNDWATER DATA SUMMARY FOR SVOCs (SW8270)

Parameters	PQL	Action Levels	Environmental Samples (ug/l)			Field Blanks (ug/l)	Method Blank (ug/l)
			Field ID 59DW8WG1 Lab ID 663211	Field ID 59SW6WG1 Lab ID 663190	Field ID Lab ID	Equipment Field ID EB112194 Lab ID 663226	Lab ID 663901
bis(2-ethylhexyl)phthalate	15	6 (1)	ND	ND		ND	ND
Di-n-butylphthalate	40	50 (2)	ND	1.6 J		ND	ND
Nitrobenzene-D5 (3)	27-101		70	70		60	80
2,4,6-Tribromophenol (3)	24-104		100	200		170	200
2-Fluorophenol (3)	19-73		6.6	90		80	110
Phenol-D5 (3)	15-53		4.0	60		50	70
2-Fluorobiphenyl (3)	36-102		60	80		70	80
Terphenyl-D14 (3)	31-125		60	90		90	100
Phenol	10	1 (2)	ND	ND		ND	ND

Parameters	PQL	Action Levels	Environmental Samples (ug/l)			Field Blanks (ug/l)	Method Blank (ug/l)
			Field ID 59DW13WG1 Lab ID 663569	Field ID Lab ID	Field ID Lab ID	Equipment Field ID EB112294 Lab ID 663615	Lab ID 663901
bis(2-ethylhexyl)phthalate	15	6 (1)	1.9 J			ND	ND
Di-n-butylphthalate	40	50 (2)	ND			ND	ND
Nitrobenzene-D5 (3)	27-101		70			50	80
2,4,6-Tribromophenol (3)	24-104		210			140	200
2-Fluorophenol (3)	19-73		60			70	110
Phenol-D5 (3)	15-53		40			40	70
2-Fluorobiphenyl (3)	36-102		70			60	80
Terphenyl-D14 (3)	31-125		90			70	100
Phenol	10	1 (2)	ND			ND	ND

Parameters	PQL	Action Levels	Environmental Samples (ug/l)			Field Blanks (ug/l)	Method Blank (ug/l)
			Field ID 59DW9WG1 Lab ID 663603	Field ID 59SW3WG1 Lab ID 663581	Field ID 59SW3WG9 Lab ID 663609	Equipment Field ID EB112294 Lab ID 663615	Lab ID 663901
bis(2-ethylhexyl)phthalate	15	6 (1)	ND	ND	ND	ND	ND
Di-n-butylphthalate	40	50 (2)	ND	ND	ND	ND	ND
Nitrobenzene-D5 (3)	27-101		50	60	60	50	80
2,4,6-Tribromophenol (3)	24-104		160	170	160	140	200
2-Fluorophenol (3)	19-73		80	80	80	70	110
Phenol-D5 (3)	15-53		50	50	50	40	70
2-Fluorobiphenyl (3)	36-102		60	80	70	60	80
Terphenyl-D14 (3)	31-125		80	90	80	70	100
Phenol	10	1 (2)	ND	ND	ND	ND	ND

TABLE 1-15  
AIR FORCE PLANT 59  
GROUNDWATER DATA SUMMARY FOR SVOCs (SW8270)

Parameters	PQL	Action Levels	Environmental Samples (ug/l)			Field Blanks (ug/l)	Method Blank (ug/l)
			Field ID 59DW10WG1 Lab ID 662314	Field ID 59DW1WG1 Lab ID 662308	Field ID Lab ID	Equipment Field ID EB1113094 Lab ID 662290	Lab ID 662914
bis(2-ethylhexyl)phthalate	15	6 (1)	1.7 J	ND		ND	ND
Di-n-butylphthalate	40	50 (2)	ND	ND		ND	ND
Nitrobenzene-D5 (3)	27-101		50	80		90	80
2,4,6-Tribromophenol (3)	24-104		120	140		190	170
2-Fluorophenol (3)	19-73		80	100		110	110
Phenol-D5 (3)	15-53		50	60		70	70
2-Fluorobiphenyl (3)	36-102		50	70		90	80
Terphenyl-D14 (3)	31-125		70	90		110	90
Phenol	10	1 (2)	ND	ND		ND	ND

Parameters	PQL	Action Levels	Environmental Samples (ug/l)			Field Blanks (ug/l)	Method Blank (ug/l)
			Field ID 59DW5WG1 Lab ID 662296	Field ID 59SW7WG1 Lab ID 662302	Field ID Lab ID	Equipment Field ID EB1113094 Lab ID 662290	Lab ID 662914
bis(2-ethylhexyl)phthalate	15	6 (1)	ND	ND		ND	ND
Di-n-butylphthalate	40	50 (2)	ND	ND		ND	ND
Nitrobenzene-D5 (3)	27-101		80	80		90	80
2,4,6-Tribromophenol (3)	24-104		140	170		190	170
2-Fluorophenol (3)	19-73		100	100		110	110
Phenol-D5 (3)	15-53		60	60		70	70
2-Fluorobiphenyl (3)	36-102		80	70		90	80
Terphenyl-D14 (3)	31-125		100	100		110	90
Phenol	10	1 (2)	ND	ND		ND	ND

Parameters	PQL	Action Levels	Environmental Samples (ug/l)			Field Blanks (ug/l)	Method Blank (ug/l)
			Field ID 59DW3WG1 Lab ID 663231	Field ID 59DW6WG1 Lab ID 663219	Field ID Lab ID	Equipment Field ID EB112194 Lab ID 663226	Lab ID 663901
bis(2-ethylhexyl)phthalate	15	6 (1)	ND	ND		ND	ND
Di-n-butylphthalate	40	50 (2)	ND	ND		ND	ND
Nitrobenzene-D5 (3)	27-101		60	70		60	80
2,4,6-Tribromophenol (3)	24-104		150	180		170	200
2-Fluorophenol (3)	19-73		60	50		80	110
Phenol-D5 (3)	15-53		30	30		50	70
2-Fluorobiphenyl (3)	36-102		60	80		70	80
Terphenyl-D14 (3)	31-125		70	110		90	100
Phenol	10	1 (2)	ND	ND		ND	ND

TABLE I-14  
 AIR FORCE PLANT 59  
 GROUNDWATER ANALYTICAL DATA SUMMARY  
 FOR VOLATILE ORGANIC COMPOUNDS (SW8260)

Parameters	PQL	Action Levels	Environmental Samples (ug/l)				Field Blanks (ug/l)			Method Blank (ug/l)
			Field ID	Field ID	Field ID	Trip	Field ID	Equipment	Ambient	
			59SW4WG1 Lab ID 624905	Lab ID	Lab ID	Field ID 59TB10712 Lab ID 624900	Field ID 59EB10712 Lab ID 624915	Field ID	Field ID	
Bromodichloromethane	0.50	100 (2)	ND			ND	ND	ND	ND	Lab ID 625000
Bromofluorobenzene (3)	86-115		10 J			4.4 J	4.7 J	4.7	4.7	
Benzene	0.75	0.7 (2)	ND			ND	ND	ND	ND	
Toluene	0.75	5 (2)	ND			ND	ND	ND	ND	
Toluene-D8 (3)	88-110		9.9 J			4.8 J	4.8 J	4.8	4.8	
Chloroethane	0.50	5 (2)	0.76 J			ND	ND	ND	ND	
Chloromethane	1.0	5 (2)	ND			ND	0.61 J	0.61	0.61	
Carbon tetrachloride	1.0	5 (2)	ND			ND	ND	ND	ND	
Chlorodibromomethane	0.50	100 (1)	ND			ND	ND	ND	ND	
Dibromofluoromethane (3)	86-118		11 J			5.2 J	5.6 J	5.6	5.2	
1,1-Dichloroethane	0.75	5 (2)	11 J			ND	ND	ND	ND	
1,1-Dichloroethene	0.75	5 (2)	0.52 J			ND	ND	ND	ND	
cis-1,2-Dichloroethylene	0.5	5 (2)	6.7 J			ND	ND	ND	ND	
trans-1,2-Dichloroethene	1.0	5 (2)	ND			ND	ND	ND	ND	
Ethylbenzene	0.75	5 (2)	ND			ND	ND	ND	ND	
Trichlorofluoromethane	1.0	5 (2)	ND			ND	ND	ND	ND	
Isopropyl Benzene	0.75	5 (2)	ND			ND	ND	ND	ND	
Methylene chloride	15	5 (1)	3.9 U			2.8	1.6	1.6	0.18	
Naphthalene	0.75	10 (a)	ND			ND	ND	ND	ND	
n-Propyl Benzene	0.75	5 (2)	ND			ND	ND	ND	ND	
Bromoform	0.50	50 (a)	ND			ND	ND	ND	ND	
1,1,1-Trichloroethane	0.75	5 (2)	20 J			ND	ND	ND	ND	
Trichloroethylene	0.75	5 (1)	34 J			ND	ND	ND	ND	
Chloroform	0.75	7 (2)	ND			ND	ND	ND	ND	
1,2,4-Trimethyl Benzene	0.50	5 (2)	ND			ND	ND	ND	ND	
1,3,5-Trimethyl Benzene	0.50	5 (2)	ND			ND	ND	ND	ND	
Vinyl chloride	1.0	2 (2)	ND			ND	ND	ND	ND	
M-Xylene	0.5	5 (2)	ND			ND	ND	ND	ND	
O-Xylene	0.5	5 (2)	ND			ND	ND	ND	ND	

- (1) Federal Primary MCLs
  - (2) NY Groundwater Standards from Water Quality Regulations: Surface Water and Groundwater Classifications and Standards, Title 6, Chapter X, 1991
  - (a) NY Groundwater Guidance Value. No Federal MCL or NYS Groundwater Standard was found.
  - (3) Surrogate - Control limits are listed in PQL column.
  - (4) Sample diluted by a factor of 21
  - (5) Sample diluted by a factor of 7.2
  - (6) Sample diluted by a factor of 2.3
  - (7) Sample diluted by a factor of 1.7
- Qualifiers: Blank Contamination  
 U = Estimated  
 J = Estimated  
 ND = Non-detect

TABLE I-14  
 AIR FORCE PLANT 59  
 GROUNDWATER ANALYTICAL DATA SUMMARY  
 FOR VOLATILE ORGANIC COMPOUNDS (SW8260)

Parameters	PQL	Action Levels	Environmental Samples (ug/l)				Field Blanks (ug/l)				Method Blank (ug/l)		
			Field ID	Field ID	Field ID	Field ID	Trip	Equipment	Ambient	Lab ID	Lab ID		
			59SW3 WGI Lab ID 625875	Lab ID	Lab ID	Lab ID	Field ID TB1071494 Lab ID 625872	Field ID 59EB10713 Lab ID 625874	Field ID				
Bromodichloromethane	0.50	100	ND			ND			ND		ND		Lab ID 626531
Bromofluorobenzene	86-1115	-	4.9	J		4.9	J		4.7	J	4.3		
Benzene	0.75	0.7	ND			ND			ND		ND		
Toluene	0.75	5	ND			ND			ND		ND		
Toluene-D8	88-1110		5.0	J		5.2	J		4.9	J	4.8		
Chloroethane	0.50	5	ND			ND			ND		ND		
Chloromethane	1.0	5	ND			ND			ND		0.52		
Carbon tetrachloride	1.0	5	ND			ND			ND		ND		
Chlorodibromomethane	0.50	100	ND			ND			ND		ND		
Dibromofluoromethane	86-1118		5.8	J		5.8	J		5.6	J	5.0		
1,1-Dichloroethane	0.75	5	ND			ND			ND		ND		
1,1-Dichloroethene	0.75	5	ND			ND			ND		ND		
cis-1,2-Dichloroethylene	0.5	5	ND			ND			ND		ND		
trans-1,2-Dichloroethene	1.0	5	ND			ND			ND		ND		
Ethylbenzene	0.75	5	ND			ND			ND		ND		
Trichlorofluoromethane	1.0	5	ND			ND			ND		ND		
Isopropyl Benzene	0.75	5	ND			ND			ND		ND		
Methylene chloride	15	5	1.6	U		1.8	U		0.51	U	0.78		
Naphthalene	0.75	10	ND			ND			ND		ND		
n-Propyl Benzene	0.75	5	ND			ND			ND		ND		
Bromoform	0.50	50	ND			ND			ND		ND		
1,1,1-Trichloroethane	0.75	5	0.96	J		ND			ND		ND		
Trichloroethylene	0.75	5	1.9	J		ND			ND		ND		
Chloroform	0.75	7	ND			ND			ND		ND		
1,2,4-Trimethyl Benzene	0.50	5	ND			ND			ND		ND		
1,3,5-Trimethyl Benzene	0.50	5	ND			ND			ND		ND		
Vinyl chloride	1.0	2	ND			ND			ND		ND		
M-Xylene	0.5	5	ND			ND			ND		ND		
O-Xylene	0.5	5	ND			ND			ND		ND		

TABLE I-14  
 AIR FORCE PLANT 59  
 GROUNDWATER ANALYTICAL DATA SUMMARY  
 FOR VOLATILE ORGANIC COMPOUNDS (SW8260)

Parameters	PQL	Action Levels	Environmental Samples (ug/l)				Field Blanks (ug/l)			Method Blank (ug/l)
			Field ID	Field ID	Field ID	Trip	Equipment	Ambient		
			59SW13WG1 Lab ID 661542	Lab ID	Lab ID	Field ID TB1112994 Lab ID 661548	Field ID EB1112994 Lab ID 661543	Field ID ABI12394 Lab ID 663826	Lab ID VBLKWT	
Bromodichloromethane	0.50	100	ND			ND	ND	ND	ND	
Bromofluorobenzene	86-115	(2)	4.1			4.4	4.5	4.4	4.3	
Benzene	0.75	(2)	ND			ND	ND	ND	ND	
Toluene	0.75	(2)	ND			ND	ND	ND	ND	
Toluene-D8	88-110	(3)	5.0			4.8	5.0	5.3	5.2	
Chloroethane	0.50	(2)	ND			ND	ND	ND	ND	
Chloromethane	1.0	(2)	ND			ND	ND	ND	ND	
Carbon tetrachloride	1.0	(2)	ND			ND	ND	ND	ND	
Chlorodibromomethane	0.50	(1)	ND			ND	ND	ND	ND	
Dibromofluoromethane	86-118	(3)	5.2			5.8	5.5	5.6	5.4	
1,1-Dichloroethane	0.75	(2)	ND			ND	ND	ND	ND	
1,1-Dichloroethene	0.75	(2)	ND			ND	ND	ND	ND	
cis-1,2-Dichloroethylene	0.5	(2)	ND			ND	ND	ND	ND	
trans-1,2-Dichloroethene	1.0	(2)	ND			ND	ND	ND	ND	
Ethylbenzene	0.75	(2)	ND			ND	ND	ND	ND	
Trichlorofluoromethane	1.0	(2)	ND			ND	ND	ND	ND	
Isopropyl Benzene	0.75	(2)	ND			ND	ND	ND	ND	
Methylene chloride	15	(1)	0.78		U	0.83	0.42	1.3	0.60	
Naphthalene	0.75	(a)	ND			ND	ND	ND	ND	
n-Propyl Benzene	0.75	(2)	ND			ND	ND	ND	ND	
Bromoform	0.50	(a)	ND			ND	ND	ND	ND	
1,1,1-Trichloroethane	0.75	(2)	ND			ND	ND	ND	ND	
Trichloroethylene	0.75	(1)	ND			ND	ND	ND	ND	
Chloroform	0.75	(2)	ND			ND	ND	ND	ND	
1,2,4-Trimethyl Benzene	0.50	(2)	ND			ND	ND	ND	ND	
1,3,5-Trimethyl Benzene	0.50	(2)	ND			ND	ND	ND	ND	
Vinyl chloride	1.0	(2)	ND			ND	ND	ND	ND	
M-Xylene	0.5	(2)	ND			ND	ND	ND	ND	
O-Xylene	0.5	(2)	ND			ND	ND	ND	ND	

AIR FORCE PLANT 59  
GROUNDWATER ANALYTICAL DATA SUMMARY  
FOR VOLATILE ORGANIC COMPOUNDS (SW8260)

Parameters	PQL	Action Levels	Environmental Samples (ug/l)			Field Blanks (ug/l)			Method Blank (ug/l)	
			Field ID 59SW10WG1 Lab ID 660952	Field ID 59SW12WG1 Lab ID 660949	Field ID Lab ID	Trip Field ID TB1112894 Lab ID 660985	Equipment Field ID EB1112894 Lab ID 660979	Ambient Field ID AB112394 Lab ID 663826	Lab ID VBLKWT	
Bromodichloromethane	0.50	100	ND	ND	ND	ND	ND	ND	ND	ND
Bromofluorobenzene	86-115	-	5.0	4.2	4.1	4.3	4.3	4.4	4.3	ND
Benzene	0.75	0.7	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	0.75	5	ND	ND	ND	ND	ND	ND	ND	ND
Toluene-D8	88-110		5.3	5.1	5.1	4.7	5.3	5.3	5.2	ND
Chloroethane	0.50	5	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	1.0	5	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	1.0	5	ND	ND	ND	ND	ND	ND	ND	ND
Chlorodibromomethane	0.50	100	ND	ND	ND	ND	ND	ND	ND	ND
Dibromofluoromethane	86-118		5.5	5.4	5.1	5.1	5.6	5.6	5.4	ND
1,1-Dichloroethane	0.75	5	2.2	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	0.75	5	2.0	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethylene	0.5	5	ND	0.50	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	1.0	5	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	0.75	5	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	1.0	5	ND	ND	ND	ND	ND	ND	ND	ND
Isopropyl Benzene	0.75	5	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	15	5	0.96	1.4	0.79	0.68	1.3	U	0.60	ND
Naphthalene	0.75	10	ND	ND	ND	ND	ND	ND	ND	ND
n-Propyl Benzene	0.75	5	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	0.50	50	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	0.75	5	10	21	ND	ND	ND	ND	ND	ND
Trichloroethylene	0.75	5	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	0.75	7	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethyl Benzene	0.50	5	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethyl Benzene	0.50	5	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	1.0	2	ND	0.30	ND	ND	ND	ND	ND	ND
M-Xylene	0.5	5	ND	ND	ND	ND	ND	ND	ND	ND
O-Xylene	0.5	5	ND	ND	ND	ND	ND	ND	ND	ND



TABLE I-14  
 AIR FORCE PLANT 59  
 GROUNDWATER ANALYTICAL DATA SUMMARY  
 FOR VOLATILE ORGANIC COMPOUNDS (SW8260)

Parameters	PQL	Action Levels	Environmental Samples (ug/l)				Field Blanks (ug/l)				Method Blank (ug/l)	
			Field ID	Field ID	Field ID	Trip	Equipment	Ambient	Field ID	Field ID		Field ID
			59SW1WG1 Lab ID	Lab ID	Lab ID	Field ID	Field ID	Field ID	Field ID	Field ID		Field ID
Bromodichloromethane	0.50	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromofluorobenzene	86-115	(2)	4.5	ND	ND	4.1	4.3	4.4	4.4	4.4	4.4	4.4
Benzene	0.75	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	0.75	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene-D8	88-110	(3)	5.0	ND	ND	5.1	4.7	5.3	5.3	5.3	5.3	5.3
Chloroethane	0.50	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	1.0	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	1.0	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorodibromomethane	0.50	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromofluoromethane	86-118	(3)	5.2	ND	ND	5.1	5.1	5.6	5.6	5.6	5.6	5.6
1,1-Dichloroethane	0.75	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	0.75	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethylene	0.5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	1.0	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	0.75	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	1.0	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropyl Benzene	0.75	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	15	5	0.70	U	U	0.79	U	1.3	U	U	0.94	0.94
Naphthalene	0.75	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propyl Benzene	0.75	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	0.50	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	0.75	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	0.75	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	0.75	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethyl Benzene	0.50	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethyl Benzene	0.50	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	1.0	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
M-Xylene	0.5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
O-Xylene	0.5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

TABLE I-14  
 AIR FORCE PLANT 59  
 GROUNDWATER ANALYTICAL DATA SUMMARY  
 FOR VOLATILE ORGANIC COMPOUNDS (SW8260)

Parameters	PQL	Action Levels	Environmental Samples (ug/l)		Field Blanks (ug/l)		Equipment		Ambient		Method Blank (ug/l)
			Field ID	Lab ID	Trip	Field ID	Field ID	Field ID	Field ID		
			59DW13WG1	663567	TB112294	Lab ID	EB112294	Lab ID	AB112394	Lab ID	
Bromodichloromethane	0.50	100	ND		ND		ND		ND		ND
Bromofluorobenzene	86-115		4.4		4.4		4.7		4.4		4.3
Benzene	0.75	0.7	ND		ND		ND		ND		ND
Toluene	0.75	5	ND		ND		ND		ND		ND
Toluene-D8	88-110		4.8		5.1		5.0		5.3		4.8
Chloroethane	0.50	5	ND		ND		ND		ND		ND
Chloromethane	1.0	5	ND		0.60	J	ND		ND		ND
Carbon tetrachloride	1.0	5	ND		ND		ND		ND		ND
Chlorodibromomethane	0.50	100	ND		ND		ND		ND		ND
Dibromofluoromethane	86-118		5.5		5.7		5.7		5.6		5.0
1,1-Dichloroethane	0.75	5	ND		ND		ND		ND		ND
1,1-Dichloroethene	0.75	5	ND		ND		ND		ND		ND
cis-1,2-Dichloroethylene	0.5	5	ND		ND		ND		ND		ND
trans-1,2-Dichloroethene	1.0	5	ND		ND		ND		ND		ND
Ethylbenzene	0.75	5	ND		ND		ND		ND		ND
Trichlorofluoromethane	1.0	5	ND		ND		ND		ND		ND
Isopropyl Benzene	0.75	5	ND		ND		ND		ND		ND
Methylene chloride	15	5	ND		0.70	U	1.1		1.3		0.63
Naphthalene	0.75	10	ND		ND		ND		ND		ND
n-Propyl Benzene	0.75	5	ND		ND		ND		ND		ND
Bromoform	0.50	50	ND		ND		ND		ND		ND
1,1,1-Trichloroethane	0.75	5	ND		ND		ND		ND		ND
Trichloroethylene	0.75	5	ND		ND		ND		ND		ND
Chloroform	0.75	7	ND		ND		ND		ND		ND
1,2,4-Trimethyl Benzene	0.50	5	ND		ND		ND		ND		ND
1,3,5-Trimethyl Benzene	0.50	5	ND		ND		ND		ND		ND
Vinyl chloride	1.0	2	ND		ND		ND		ND		ND
m-Xylene	0.5	5	ND		ND		ND		ND		ND
O-Xylene	0.5	5	ND		ND		ND		ND		ND

TABLE 1-14  
 AIR FORCE PLANT 59  
 GROUNDWATER ANALYTICAL DATA SUMMARY  
 FOR VOLATILE ORGANIC COMPOUNDS (SW8260)

Parameters	PQL	Action Levels	Environmental Samples (ug/l)				Field Blanks (ug/l)			Equipment		Ambient		Method Blank (ug/l)
			Field ID 59DW8WG1 Lab ID 663168	Field ID 59SW6WG1 Lab ID 663164	Field ID Lab ID	Trip Field ID TB112194 Lab ID 663178	Field ID EB112194 Lab ID 663173	Field ID AB112394 Lab ID 663826	Field ID Lab ID	Field ID Lab ID				
Bromodichloromethane	0.50	100	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	
Bromofluorobenzene	86-115	(2)	4.6	4.4		4.4	4.4	4.4	4.4	4.4	4.4	4.3	4.3	
Benzene	0.75	0.7	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	
Toluene	0.75	5	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	
Toluene-D8	88-110	(3)	4.9	4.9		5.0	5.1	5.3	5.3	5.3	5.3	4.8	4.8	
Chloroethane	0.50	5	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	
Chloromethane	1.0	5	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	
Carbon tetrachloride	1.0	5	ND	0.33	J	0.63	J	J	J	J	J	ND	ND	
Chlorodibromomethane	0.50	100	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	
Dibromofluoromethane	86-118	(3)	5.5	5.1		5.8	5.7	5.6	5.6	5.6	5.6	5.0	5.0	
1,1-Dichloroethane	0.75	5	ND	1.6		ND	ND	ND	ND	ND	ND	ND	ND	
1,1-Dichloroethene	0.75	5	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	
cis-1,2-Dichloroethylene	0.5	5	ND	10		ND	ND	ND	ND	ND	ND	ND	ND	
trans-1,2-Dichloroethene	1.0	5	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	
Ethylbenzene	0.75	5	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	
Trichlorofluoromethane	1.0	5	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	
Isopropyl Benzene	0.75	5	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	
Methylene chloride	15	5	0.90	1.7	U	ND	1.9	1.3	1.3	1.3	0.63	0.63	0.63	
Naphthalene	0.75	10	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	
n-Propyl Benzene	0.75	5	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	
Bromoform	0.50	50	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	
1,1,1-Trichloroethane	0.75	5	ND	2.3		ND	ND	ND	ND	ND	ND	ND	ND	
Trichloroethylene	0.75	5	ND	1.8		ND	ND	ND	ND	ND	ND	ND	ND	
Chloroform	0.75	7	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	
1,2,4-Trimethyl Benzene	0.50	5	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	
1,3,5-Trimethyl Benzene	0.50	5	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	
Vinyl chloride	1.0	2	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	
M-Xylene	0.5	5	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	
O-Xylene	0.5	5	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	

TABLE I-14  
 AIR FORCE PLANT 59  
 GROUNDWATER ANALYTICAL DATA SUMMARY  
 FOR VOLATILE ORGANIC COMPOUNDS (SW8260)

Parameters	PQL	Action Levels	Environmental Samples (ug/l)				Field Blanks (ug/l)			Method Blank (ug/l)	
			Field ID	Field ID	Field ID	Trip	Equipment	Ambient	Lab ID	Method Blank (ug/l)	
			59SW5WG1 Lab ID 661544	59SW8WG1 Lab ID 661546	59SW8WG9 Lab ID 661545	TB1112994 Lab ID 661548	EB1112994 Lab ID 661543	AB112394 Lab ID 663826			
Bromodichloromethane	0.50	100	ND	ND	ND	ND	ND	ND	ND	ND	VBLKWV
Bromofluorobenzene	86-115	(2)	4.3	4.7	4.3	4.4	4.5	4.4	4.5	4.4	4.5
Benzene	0.75	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	0.75	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene-D8	88-110	(3)	5.0	5.2	4.9	4.8	5.0	5.3	4.8	5.3	4.8
Chloroethane	0.50	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	1.0	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	1.0	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorodibromomethane	0.50	100	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromofluoromethane	86-118	(3)	5.5	5.9	5.5	5.8	5.5	5.6	5.7	5.6	5.7
1,1-Dichloroethane	0.75	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	0.75	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethylene	0.5	5	ND	0.75	0.84	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	1.0	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	0.75	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	1.0	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropyl Benzene	0.75	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	15	5	ND	1.1	0.28	0.83	0.42	1.3	0.42	1.3	U
Naphthalene	0.75	10	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propyl Benzene	0.75	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	0.50	50	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	0.75	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	0.75	5	ND	0.47	0.65	ND	ND	ND	ND	ND	ND
Chloroform	0.75	7	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethyl Benzene	0.50	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethyl Benzene	0.50	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	1.0	2	ND	ND	ND	ND	ND	ND	ND	ND	ND
M-Xylene	0.5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
O-Xylene	0.5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND

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 AIR FORCE PLANT 59  
 GROUNDWATER ANALYTICAL DATA SUMMARY  
 FOR VOLATILE ORGANIC COMPOUNDS (SW8260)

Parameters	PQL	Action Levels	Environmental Samples (ug/l)				Field Blanks (ug/l)			Method Blank (ug/l)	
			Field ID	Field ID	Field ID	Trip	Equipment	Ambient	Lab ID	Lab ID	
			59SW7WG1RE Lab ID (5) 662301	59SW7WG1 Lab ID 662301	Lab ID	Field ID TB1113094 Lab ID 662288	Field ID EB1113094 Lab ID 662289	Field ID AB112394 Lab ID 663826			
Bromodichloromethane	0.50	100	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromofluorobenzene	86-115		30	5.1	4.2	4.4	4.4	4.4	4.4	4.7	4.7
Benzene	0.75	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	0.75	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene-D8	88-110		37	5.5	4.7	4.8	4.8	5.3	5.3	5.3	5.3
Chloroethane	0.50	5	4.6	4.2	ND	ND	ND	ND	ND	ND	ND
Chloromethane	1.0	5	ND	ND	0.58	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	1.0	5	ND	0.60	ND	ND	ND	ND	ND	ND	ND
Chlorodibromomethane	0.50	100	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromofluoromethane	86-118		38	5.5	5.6	5.8	5.8	5.6	5.6	5.5	5.5
1,1-Dichloroethane	0.75	5	33	30	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	0.75	5	ND	1.0	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethylene	0.5	5	150	110	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	1.0	5	ND	0.30	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	0.75	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	1.0	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropyl Benzene	0.75	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	15	5	20	0.73	0.69	0.36	0.36	1.3	1.3	1.8	1.8
Naphthalene	0.75	10	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propyl Benzene	0.75	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	0.50	50	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	0.75	5	5.2	4.6	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	0.75	5	18	15	ND	ND	ND	ND	ND	ND	ND
Chloroform	0.75	7	ND	0.28	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethyl Benzene	0.50	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethyl Benzene	0.50	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	1.0	2	6.4	6.2	ND	ND	ND	ND	ND	ND	ND
M-Xylene	0.5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
O-Xylene	0.5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND

TABLE 1-14  
 AIR FORCE PLANT 59  
 GROUNDWATER ANALYTICAL DATA SUMMARY  
 FOR VOLATILE ORGANIC COMPOUNDS (SW8260)

Parameters	PQL	Action Levels	Environmental Samples (ug/l)				Field Blanks (ug/l)			Equipment Field ID EB1113094 Lab ID 662289	Ambient Field ID AB112394 Lab ID 663826	Method Blank (ug/l) VBLK.VQ
			Field ID 59DW1WG1 Lab ID 662307	Field ID 59DW10WG1 Lab ID 662313	Field ID 59DW5WG1 Lab ID 662295	Trip Field ID TB1113094 Lab ID 662288	Field ID 59DW10WG1 Lab ID 662313	Field ID 59DW5WG1 Lab ID 662295	Field ID TB1113094 Lab ID 662288			
Bromodichloromethane	0.50	100	ND	0.35	ND	ND	ND	ND	ND	ND	ND	ND
Bromofluorobenzene	86-1115	(2)	5.1	4.6	4.7	4.2	4.4	4.4	4.4	4.4	4.7	4.7
Benzene	0.75	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	0.75	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene-D8	88-1110	(2)	5.2	5.0	5.3	4.7	4.8	4.8	5.3	5.3	5.3	5.3
Chloroethane	0.50	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	1.0	5	ND	ND	0.54	0.58	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	1.0	(2)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorodibromomethane	0.50	100	ND	0.78	ND	ND	ND	ND	ND	ND	ND	ND
Dibromofluoromethane	86-1118	(3)	6.0	5.6	5.8	5.6	5.8	5.8	5.6	5.6	5.5	5.5
1,1-Dichloroethane	0.75	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	0.75	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethylene	0.5	5	1.8	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	1.0	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	0.75	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	1.0	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropyl Benzene	0.75	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	15	5	1.8	1.1	0.72	0.69	0.36	0.36	1.3	U	1.8	1.8
Naphthalene	0.75	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propyl Benzene	0.75	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	0.50	50	ND	1.5	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	0.75	5	ND	0.35	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	0.75	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	0.75	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethyl Benzene	0.50	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethyl Benzene	0.50	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	1.0	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
M-Xylene	0.5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
O-Xylene	0.5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

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 AIR FORCE PLANT 59  
 GROUNDWATER ANALYTICAL DATA SUMMARY  
 FOR VOLATILE ORGANIC COMPOUNDS (SW8260)

Parameters	PQL	Action Levels	Environmental Samples (ug/l)				Field Blanks (ug/l)				Method Blank (ug/l)	
			Field ID 59DW9WG1 Lab ID 663601	Field ID 59SW3WG9 Lab ID 663608	Field ID Lab ID	Trip Field ID TB112294 Lab ID 663620	Equipment Field ID EB112294 Lab ID 663614	Ambient Field ID AB112394 Lab ID 663826	Method Blank (ug/l)			
Bromodichloromethane	0.50	100	ND	0.38		ND		ND		ND	Lab ID VBLKXA	
Bromofluorobenzene	86-115	(2)	4.9	4.5	J	4.4		4.7		4.4	ND	4.3
Benzene	0.75	0.7	ND	ND		ND		ND		ND	ND	ND
Toluene	0.75	5	ND	ND		ND		ND		ND	ND	ND
Toluene-D8	88-110	(3)	4.9	4.7		5.1		5.0		5.3	ND	4.8
Chloroethane	0.50	5	ND	ND		ND		ND		ND	ND	ND
Chloromethane	1.0	5	ND	ND		0.60		ND		ND	ND	ND
Carbon tetrachloride	1.0	5	ND	ND		ND		ND		ND	ND	ND
Chlorodibromomethane	0.50	100	ND	ND		ND		ND		ND	ND	ND
Dibromofluoromethane	86-118	(3)	5.8	5.5		5.7		5.7		5.6	ND	5.0
1,1-Dichloroethane	0.75	5	ND	ND		ND		ND		ND	ND	ND
1,1-Dichloroethene	0.75	5	ND	ND		ND		ND		ND	ND	ND
cis-1,2-Dichloroethylene	0.5	5	ND	ND		ND		ND		ND	ND	ND
trans-1,2-Dichloroethene	1.0	5	ND	ND		ND		ND		ND	ND	ND
Ethylbenzene	0.75	5	0.40	ND	J	ND		ND		ND	ND	ND
Trichlorofluoromethane	1.0	5	ND	ND		ND		ND		ND	ND	ND
Isopropyl Benzene	0.75	5	ND	ND		ND		ND		ND	ND	ND
Methylene chloride	15	5	1.1	0.87	U	0.70		1.1		1.3	U	0.63
Naphthalene	0.75	10	ND	ND		ND		ND		ND	ND	ND
n-Propyl Benzene	0.75	5	ND	ND		ND		ND		ND	ND	ND
Bromoform	0.50	50	ND	ND		ND		ND		ND	ND	ND
1,1,1-Trichloroethane	0.75	5	ND	0.50	J	ND		ND		ND	ND	ND
Trichloroethylene	0.75	5	ND	1.8		ND		ND		ND	ND	ND
Chloroform	0.75	7	ND	0.44	J	ND		ND		ND	ND	ND
1,2,4-Trimethyl Benzene	0.50	5	ND	ND		ND		ND		ND	ND	ND
1,3,5-Trimethyl Benzene	0.50	5	ND	ND		ND		ND		ND	ND	ND
Vinyl chloride	1.0	2	ND	ND		ND		ND		ND	ND	ND
M-Xylene	0.5	5	0.29	ND	J	ND		ND		ND	ND	ND
O-Xylene	0.5	5	0.25	ND	J	ND		ND		ND	ND	ND

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 AIR FORCE PLANT 59  
 GROUNDWATER ANALYTICAL DATA SUMMARY  
 FOR VOLATILE ORGANIC COMPOUNDS (SW8260)

Parameters	PQL	Action Levels	Environmental Samples (ug/l)		Field Blanks (ug/l)		Equipment		Ambient		Method Blank (ug/l)
			Field ID Lab ID	Field ID Lab ID	Trip Field ID Lab ID	Field ID Lab ID	Field ID Lab ID	Field ID Lab ID	Field ID Lab ID		
Bromodichloromethane	0.50	100	59SW3WG1 663579	J	ND	ND	ND	ND	ND	ND	Lab ID VBLKVH
Bromofluorobenzene	86-115	5	4.7		4.4	4.7	4.4	4.4	4.4	4.5	
Benzene	0.75	0.7	ND		ND	ND	ND	ND	ND	ND	
Toluene	0.75	5	ND		ND	ND	ND	ND	ND	ND	
Toluene-D8	88-110	5	5.5		5.1	5.0	5.3	5.3	5.3	5.5	
Chloroethane	0.50	5	ND		ND	ND	ND	ND	ND	ND	
Chloromethane	1.0	5	ND		0.60	ND	J	ND	ND	ND	
Carbon tetrachloride	1.0	5	ND		ND	ND	ND	ND	ND	ND	
Chlorodibromomethane	0.50	100	ND		ND	ND	ND	ND	ND	ND	
Dibromofluoromethane	86-118	5	5.8		5.7	5.7	5.6	5.6	5.6	5.6	
1,1-Dichloroethane	0.75	5	ND		ND	ND	ND	ND	ND	ND	
1,1-Dichloroethene	0.75	5	ND		ND	ND	ND	ND	ND	ND	
cis-1,2-Dichloroethylene	0.5	5	ND		ND	ND	ND	ND	ND	ND	
trans-1,2-Dichloroethene	1.0	5	ND		ND	ND	ND	ND	ND	ND	
Ethylbenzene	0.75	5	ND		ND	ND	ND	ND	ND	ND	
Trichlorofluoromethane	1.0	5	ND		ND	ND	ND	ND	ND	ND	
Isopropyl Benzene	0.75	5	ND		ND	ND	ND	ND	ND	ND	
Methylene chloride	15	5	3.1	U	0.70	1.1	U	1.3	U	2.5	
Naphthalene	0.75	10	ND		ND	ND	ND	ND	ND	ND	
n-Propyl Benzene	0.75	5	ND		ND	ND	ND	ND	ND	ND	
Bromoform	0.50	50	ND		ND	ND	ND	ND	ND	ND	
1,1,1-Trichloroethane	0.75	5	0.36	J	ND	ND	ND	ND	ND	ND	
Trichloroethylene	0.75	5	1.2		ND	ND	ND	ND	ND	ND	
Chloroform	0.75	7	0.46	J	ND	ND	ND	ND	ND	ND	
1,2,4-Trimethyl Benzene	0.50	5	ND		ND	ND	ND	ND	ND	ND	
1,3,5-Trimethyl Benzene	0.50	5	ND		ND	ND	ND	ND	ND	ND	
Vinyl chloride	1.0	2	ND		ND	ND	ND	ND	ND	ND	
M-Xylene	0.5	5	ND		ND	ND	ND	ND	ND	ND	
O-Xylene	0.5	5	ND		ND	ND	ND	ND	ND	ND	



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 GROUNDWATER ANALYTICAL DATA SUMMARY  
 FOR VOLATILE ORGANIC COMPOUNDS (SW8260)

Parameters	PQL	Action Levels	Environmental Samples (ug/l)				Field Blanks (ug/l)			Method Blank (ug/l)	
			Field ID 59DW3WG1RH Lab ID 663175	Field ID 59DW6WG1 Lab ID 663169	Field ID 59DW3WG1 Lab ID 663175	Trip Field ID TB112194 Lab ID 663178	Equipment Field ID EB112194 Lab ID 663173	Ambient Field ID AB112394 Lab ID 663826	Method Blank (ug/l)		
Bromodichloromethane	0.50	100	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromofluorobenzene	86-115	5	9.4	4.5	4.1	4.4	4.4	4.4	4.4	4.7	4.7
Benzene	0.75	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	0.75	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene-D8	88-110	5	11	5.5	5.1	5.1	5.0	5.1	5.3	5.3	5.3
Chloroethane	0.50	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	1.0	5	ND	ND	ND	ND	0.63	ND	ND	ND	ND
Carbon tetrachloride	1.0	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorodibromomethane	0.50	100	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromofluoromethane	86-118	5	12	5.7	5.4	5.8	5.8	5.7	5.6	5.5	5.5
1,1-Dichloroethane	0.75	5	ND	ND	0.26	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	0.75	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethylene	0.5	5	36	ND	40	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	1.0	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	0.75	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	1.0	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropyl Benzene	0.75	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	15	5	1.7	1.6	1.4	1.9	1.9	1.3	1.3	1.8	1.8
Naphthalene	0.75	10	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propyl Benzene	0.75	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	0.50	50	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	0.75	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	0.75	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	0.75	7	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethyl Benzene	0.50	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethyl Benzene	0.50	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	1.0	2	ND	ND	0.28	ND	ND	ND	ND	ND	ND
m-Xylene	0.5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
O-Xylene	0.5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND

AIR FORCE PLANT 59  
GROUNDWATER ANALYTICAL DATA SUMMARY  
FOR VOLATILE ORGANIC COMPOUNDS (SW8260)

Parameters	PQL	Action Levels	Environmental Samples (ug/l)				Field Blanks (ug/l)			Method Blank (ug/l)			
			Field ID 59DW4WG1 Lab ID 664251	Field ID 59DW11WG1 Lab ID 664240	Field ID 59IW9WG1 Lab ID 664211	Trip Field ID TB112494 Lab ID 664257	Equipment Field ID EB112494 Lab ID 664246	Ambient Field ID AB112394 Lab ID 663826	Lab ID	Method Blank (ug/l)			
Bromodichloromethane	0.50	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	VBLKJG	ND
Bromofluorobenzene	86-115	(2)	4.1	4.1	4.2	4.1	4.3	4.4	4.4	4.4	4.0	4.0	4.0
Benzene	0.75	0.7	ND	ND	0.29	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	0.75	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene-D8	88-110	(3)	4.9	4.7	4.8	4.8	5.0	5.3	5.3	5.3	4.8	4.8	4.8
Chloroethane	0.50	5	ND	ND	0.51	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	1.0	5	ND	0.38	ND	0.75	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	1.0	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorodibromomethane	0.50	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromofluoromethane	86-118	(3)	4.7	4.6	5.1	5.2	4.9	5.6	5.6	5.6	4.9	4.9	4.9
1,1-Dichloroethane	0.75	5	ND	ND	13	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	0.75	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethylene	0.5	5	0.28	ND	5.4	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	1.0	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	0.75	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	1.0	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropyl Benzene	0.75	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	15	5	2.4	1.6	0.56	1.7	16	1.3	1.3	1.3	1.9	1.9	1.9
Naphthalene	0.75	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propyl Benzene	0.75	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	0.50	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	0.75	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	0.75	5	1.2	ND	20	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	0.75	7	ND	ND	ND	0.44	14	ND	ND	ND	ND	ND	ND
1,2,4-Trimethyl Benzene	0.50	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethyl Benzene	0.50	5	ND	0.78	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	1.0	2	ND	ND	1.0	ND	ND	ND	ND	ND	ND	ND	ND
M-Xylene	0.5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
O-Xylene	0.5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

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 AIR FORCE PLANT 59  
 GROUNDWATER ANALYTICAL DATA SUMMARY  
 FOR VOLATILE ORGANIC COMPOUNDS (SW8260)

Parameters	PQL	Action Levels	Environmental Samples (ug/l)		Field Blanks (ug/l)		Equipment		Method Blank (ug/l)
			Field ID 59DW12WG1 Lab ID 663808	Field ID 59SW9WG1 Lab ID 663819	Field ID Lab ID	Trip Field ID TB112394 Lab ID 663825	Field ID EB112394 Lab ID 663814	Ambient Field ID AB112394 Lab ID 663826	
Bromodichloromethane	0.50	100	ND	ND	ND	ND	ND	ND	ND
Bromofluorobenzene	86-115	(2)	4.4	4.2	4.5	4.8	4.4	4.0	4.0
Benzene	0.75	0.7	ND	ND	ND	ND	ND	ND	ND
Toluene	0.75	5	ND	ND	ND	ND	ND	ND	ND
Toluene-D8	88-110	(3)	5.0	4.9	5.5	5.5	5.3	4.8	4.8
Chloroethane	0.50	5	ND	ND	ND	ND	ND	ND	ND
Chloromethane	1.0	5	ND	ND	0.50	ND	ND	ND	ND
Carbon tetrachloride	1.0	5	ND	ND	ND	ND	ND	ND	ND
Chlorodibromomethane	0.50	100	ND	ND	ND	ND	ND	ND	ND
Dibromofluoromethane	86-118	(3)	5.2	5.1	5.5	5.9	5.6	4.9	4.9
1,1-Dichloroethane	0.75	5	ND	0.62	ND	ND	ND	ND	ND
1,1-Dichloroethene	0.75	5	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethylene	0.5	5	ND	0.67	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	1.0	5	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	0.75	5	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	1.0	5	ND	ND	ND	ND	ND	ND	ND
Isopropyl Benzene	0.75	5	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	15	5	0.75	1.5	0.74	1.0	1.3	1.9	1.9
Naphthalene	0.75	10	ND	ND	ND	ND	ND	ND	ND
n-Propyl Benzene	0.75	5	ND	ND	ND	ND	ND	ND	ND
Bromoform	0.50	50	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	0.75	5	ND	1.8	ND	ND	ND	ND	ND
Trichloroethylene	0.75	5	ND	2.4	ND	ND	ND	ND	ND
Chloroform	0.75	7	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethyl Benzene	0.50	5	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethyl Benzene	0.50	5	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	1.0	2	ND	ND	ND	ND	ND	ND	ND
M-Xylene	0.5	5	ND	ND	ND	ND	ND	ND	ND
O-Xylene	0.5	5	ND	ND	ND	ND	ND	ND	ND

TABLE 1-14  
 AIR FORCE PLANT 59  
 GROUNDWATER ANALYTICAL DATA SUMMARY  
 FOR VOLATILE ORGANIC COMPOUNDS (SW8260)

Parameters	PQL	Action Levels	Environmental Samples (ug/l)				Field Blanks (ug/l)			Ambient		Method Blank (ug/l)
			Field ID	Field ID	Field ID	Trip	Equipment	Field ID	Field ID	Field ID	Field ID	
			59SW11WG9R Lab ID (7) 664228	59SW11WG9R Lab ID (7) 664222	59SW11WG1R Lab ID (7) 664257	Field ID TB112494 Lab ID 664257	Field ID EB112494 Lab ID 664246	Field ID AB112394 Lab ID 663826	Field ID VBLKVJ			
Bromodichloromethane	0.50	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromofluorobenzene	86-115	(2)	8.9	8.5	4.1	4.3	4.4	4.3	4.4	4.3	4.3	4.3
Benzene	0.75	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	0.75	5	1.5	1.3	ND	ND	ND	ND	ND	ND	ND	ND
Toluene-D8	88-110	(3)	9.2	9.4	4.8	5.0	5.3	5.0	5.3	5.3	5.3	5.3
Chloroethane	0.50	5	0.62	0.66	J	0.66	J	0.66	J	0.66	0.66	0.66
Chloromethane	1.0	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	1.0	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorodibromomethane	0.50	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromofluoromethane	86-118	(3)	9.5	9.2	5.2	4.9	5.6	4.9	5.6	5.6	5.6	5.6
1,1-Dichloroethane	0.75	5	5.9	5.9	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	0.75	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethylene	0.5	5	2.8	2.5	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	1.0	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	0.75	5	0.67	0.71	J	0.71	J	0.71	J	0.71	0.71	0.71
Trichlorofluoromethane	1.0	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropyl Benzene	0.75	5	0.89	1.0	J	1.0	J	1.0	J	1.0	1.0	1.0
Methylene chloride	15	5	1.9	2.0	U	2.0	U	1.7	U	1.3	1.2	1.2
Naphthalene	0.75	10	2.4	3.4	(a)	3.4	(a)	ND	ND	ND	ND	ND
n-Propyl Benzene	0.75	5	0.78	0.93	J	0.93	J	ND	ND	ND	ND	ND
Bromoform	0.50	50	ND	ND	(a)	ND	(a)	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	0.75	5	7.9	8.9	(2)	8.9	(2)	ND	ND	ND	ND	ND
Trichloroethylene	0.75	5	ND	ND	(1)	ND	(1)	ND	ND	ND	ND	ND
Chloroform	0.75	7	ND	ND	(2)	ND	(2)	0.44	U	ND	ND	ND
1,2,4-Trimethyl Benzene	0.50	5	13	15	(2)	15	(2)	ND	ND	ND	ND	ND
1,3,5-Trimethyl Benzene	0.50	5	31	36	(2)	36	(2)	ND	ND	ND	ND	ND
Vinyl chloride	1.0	2	ND	ND	(2)	ND	(2)	ND	ND	ND	ND	ND
M-Xylene	0.5	5	2.7	2.9	(2)	2.9	(2)	ND	ND	ND	ND	ND
O-Xylene	0.5	5	4.1	4.4	(2)	4.4	(2)	ND	ND	ND	ND	ND

TABLE 1-14  
 AIR FORCE PLANT 59  
 GROUNDWATER ANALYTICAL DATA SUMMARY  
 FOR VOLATILE ORGANIC COMPOUNDS (SW8260)

Parameters	PQL	Action Levels	Environmental Samples (ug/l)				Field Blanks (ug/l)			Method Blank (ug/l)		
			Field ID	Field ID	Field ID	Trip	Equipment	Ambient	Field ID	Lab ID	Field ID	Lab ID
			59SW11WG9 Lab ID 664228	59SW11WG1 Lab ID 664222	Lab ID	Lab ID 664257	Field ID EB112494 Lab ID 664246	Field ID AB112394 Lab ID 663826	Lab ID	Lab ID	Lab ID	Lab ID
Bromodichloromethane	0.50	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromofluorobenzene	86-115	(2)	4.7	4.7	4.7	4.1	4.3	4.4	4.0	4.0	4.0	4.0
Benzene	0.75	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	0.75	5	1.3	1.1	1.1	ND	ND	ND	ND	ND	ND	ND
Toluene-D8	88-110	(3)	4.9	4.8	4.8	4.8	5.0	5.3	4.8	4.8	4.8	4.8
Chloroethane	0.50	5	0.72	0.67	0.67	ND	ND	ND	ND	ND	ND	ND
Chloromethane	1.0	5	ND	ND	ND	0.75	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	1.0	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorodibromomethane	0.50	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromofluoromethane	86-118	(3)	4.6	4.8	4.8	5.2	4.9	5.6	4.9	4.9	4.9	4.9
1,1-Dichloroethane	0.75	5	6.7	6.0	6.0	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	0.75	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethylene	0.5	5	3.1	2.6	2.6	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	1.0	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	0.75	5	0.68	0.67	0.67	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	1.0	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropyl Benzene	0.75	5	1.0	1.0	1.0	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	15	5	3.1	0.97	0.97	1.7	16	1.3	1.9	1.9	1.9	1.9
Naphthalene	0.75	10	2.8	2.5	2.5	ND	ND	ND	ND	ND	ND	ND
n-Propyl Benzene	0.75	5	0.88	0.90	0.90	ND	ND	ND	ND	ND	ND	ND
Bromoform	0.50	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	0.75	5	9.2	9.1	9.1	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	0.75	5	0.35	0.34	0.34	ND	ND	ND	ND	ND	ND	ND
Chloroform	0.75	7	ND	ND	ND	0.44	14	ND	ND	ND	ND	ND
1,2,4-Trimethyl Benzene	0.50	5	13	15	15	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethyl Benzene	0.50	5	31	34	34	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	1.0	2	0.44	0.36	0.36	ND	ND	ND	ND	ND	ND	ND
M-Xylene	0.5	5	2.7	2.7	2.7	ND	ND	ND	ND	ND	ND	ND
O-Xylene	0.5	5	3.9	4.2	4.2	ND	ND	ND	ND	ND	ND	ND

TABLE 1-14  
AIR FORCE PLANT 59  
GROUNDWATER ANALYTICAL DATA SUMMARY  
FOR VOLATILE ORGANIC COMPOUNDS (SW8260)

Parameters	PQL	Action Levels	Environmental Samples (ug/l)				Field Blanks (ug/l)			Method Blank (ug/l)	
			Field ID 59SW4WGJRE Lab ID 664234	Field ID 59SW4WG1 Lab ID 664234	Field ID Lab ID	Trip Field ID TB112494 Lab ID 664257	Equipment Field ID EB112494 Lab ID 664246	Ambient Field ID AB112394 Lab ID 663826	Lab ID VBLKVJ		
Bromodichloromethane	0.50	100	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromofluorobenzene	86-115	-	95	33	ND	4.1	4.3	4.4	4.3	4.3	4.3
Benzene	0.75	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	0.75	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene-D8	88-110		110	39	ND	4.8	5.0	5.3	5.3	5.3	5.3
Chloroethane	0.50	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	1.0	5	ND	ND	ND	0.75	ND	ND	ND	ND	ND
Carbon tetrachloride	1.0	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorodibromomethane	0.50	100	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromofluoromethane	86-118		120	39	ND	5.2	4.9	5.6	5.6	5.6	5.6
1,1-Dichloroethane	0.75	5	7.5	8.5	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	0.75	5	ND	2.1	J	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethylene	0.5	5	16	19	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	1.0	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	0.75	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	1.0	5	ND	2.8	J	ND	ND	ND	ND	ND	ND
Isopropyl Benzene	0.75	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	15	5	22	6.0	U	1.7	16	1.3	U	1.2	1.2
Naphthalene	0.75	10	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propyl Benzene	0.75	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	0.50	50	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	0.75	5	17	20	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	0.75	5	370	370	J	ND	ND	ND	ND	ND	ND
Chloroform	0.75	7	ND	ND	ND	0.44	14	ND	ND	ND	ND
1,2,4-Trimethyl Benzene	0.50	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethyl Benzene	0.50	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	1.0	2	ND	ND	ND	ND	ND	ND	ND	ND	ND
m-Xylene	0.5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
O-Xylene	0.5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND

TABLE 1-14  
 AIR FORCE PLANT 59  
 GROUNDWATER ANALYTICAL DATA SUMMARY  
 FOR VOLATILE ORGANIC COMPOUNDS (SW8260)

Parameters	PQL	Action Levels	Environmental Samples (ug/l)				Field Blanks (ug/l)			Method Blank (ug/l)	
			Field ID	Field ID	Field ID	Trip	Equipment	Ambient	Lab ID	Method Blank (ug/l)	
			59DPWWG1 Lab ID 665948	Lab ID	Lab ID	Field ID TB112794 Lab ID 665947	Field ID Lab ID	Field ID AB112394 Lab ID 663826			
Bromodichloromethane	0.50	100	ND			ND			ND	ND	
Bromofluorobenzene	86-115	(2)	4.8			4.6			4.4	4.6	
Benzene	0.75	0.7	ND			ND			ND	ND	
Toluene	0.75	5	ND			ND			ND	ND	
Toluene-D8	88-110	(3)	5.0			5.0			5.3	5.3	
Chloroethane	0.50	5	ND			ND			ND	ND	
Chloromethane	1.0	5	ND			ND			ND	ND	
Carbon tetrachloride	1.0	5	ND			ND			ND	ND	
Chlorodibromomethane	0.50	100	NI			ND			ND	ND	
Dibromofluoromethane	86-118	(3)	5.5			5.6			5.6	5.3	
1,1-Dichloroethane	0.75	5	2.4			ND			ND	ND	
1,1-Dichloroethene	0.75	5	ND			ND			ND	ND	
cis-1,2-Dichloroethylene	0.5	5	13			ND			ND	ND	
trans-1,2-Dichloroethene	1.0	5	ND			ND			ND	ND	
Ethylbenzene	0.75	5	ND			ND			ND	ND	
Trichlorofluoromethane	1.0	5	ND			ND			ND	ND	
Isopropyl Benzene	0.75	5	ND			ND			ND	ND	
Methylene chloride	15	5	1.1			4.6	U		1.3	0.89	
Naphthalene	0.75	10	ND			ND			ND	ND	
n-Propyl Benzene	0.75	5	ND			ND			ND	ND	
Bromoform	0.50	50	ND			ND			ND	ND	
1,1,1-Trichloroethane	0.75	5	1.2			ND			ND	ND	
Trichloroethylene	0.75	5	4.0			ND			ND	ND	
Chloroform	0.75	7	ND			ND			ND	ND	
1,2,4-Trimethyl Benzene	0.50	5	ND			ND			ND	ND	
1,3,5-Trimethyl Benzene	0.50	5	ND			ND			ND	ND	
Vinyl chloride	1.0	2	ND			ND			ND	ND	
M-Xylene	0.5	5	ND			ND			ND	ND	
O-Xylene	0.5	5	ND			ND			ND	ND	

TABLE 1-14  
 AIR FORCE PLANT 59  
 GROUNDWATER ANALYTICAL DATA SUMMARY  
 FOR VOLATILE ORGANIC COMPOUNDS (SW8260)

Parameters	PQL	Action Levels	Environmental Samples (ug/l)				Field Blanks (ug/l)				Method Blank (ug/l)		
			Field ID		Field ID		Trip		Equipment			Ambient	
			Lab ID	Field ID	Lab ID	Field ID	Field ID	Field ID	Field ID	Field ID		Field ID	Field ID
Bromodichloromethane	0.50	100	59IW13WG1 667042	ND	ND	ND	ND	ND	ND	ND	ND	ND	Lab ID VBLKVM
Bromofluorobenzene	86-115	5	ND	5.0	ND	4.4	ND	4.4	ND	4.4	ND	4.8	ND
Benzene	0.75	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	0.75	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene-D8	88-110	5	5.6	5.6	5.1	5.1	5.0	5.3	5.3	5.3	5.3	5.3	ND
Chloroethane	0.50	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	1.0	5	ND	ND	ND	0.60	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	1.0	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorodibromomethane	0.50	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromofluoromethane	86-118	5	5.8	5.8	5.7	5.7	5.7	5.6	5.6	5.6	5.9	5.9	ND
1,1-Dichloroethane	0.75	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	0.75	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethylene	0.5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	1.0	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	0.75	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	1.0	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropyl Benzene	0.75	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	15	5	2.6	2.6	0.70	0.70	1.1	1.3	1.3	1.3	1.5	1.5	U
Naphthalene	0.75	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propyl Benzene	0.75	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	0.50	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	0.75	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	0.75	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	0.75	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.26
1,2,4-Trimethyl Benzene	0.50	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethyl Benzene	0.50	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	1.0	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
M-Xylene	0.5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
O-Xylene	0.5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND



TABLE 1-13  
AIR FORCE PLANT 59  
GROUNDWATER DATA SUMMARY FOR PCB/PESTICIDE (SW8080)

Parameters	PQL	Action Levels	Environmental Samples (ug/L)						Field Blanks (ug/L)			Method Blank (ug/L)		
			59SW11WG9			59SW4WG1			Equipment			Lab ID		
			Field ID	Lab ID	IC	2C	PR	U	IC	2C	PR	U	IC	2C
Aldrin	0.025		0.0009	0.0082	0.0009	U	0.0012	0.011	0.0012	U	0.0014	0.0017	0.0014	U
alpha-BHC	0.025		0.012	0.010	0.010	J					ND	ND	ND	ND
beta-BHC	0.050										ND	ND	ND	ND
delta-BHC	0.0010		0.0009	0.013	0.0009	U					0.0070	0.0070	0.0070	0.0070
gamma-BHC (Lindane)	0.025										0.0014	0.0014	0.0014	J
Decachlorobiphenyl (3)	20-150										0.071	0.100	0.100	0.12
4,4 -DDD	0.050	(2)	0.0082	0.010	0.0082	J	0.0026	0.014	0.0026	J	0.0026	0.0026	0.0026	J
4,4 -DDE	0.050	(2)									ND	ND	ND	ND
4,4 -DDT	0.075	(2)									ND	ND	ND	ND
Dieldrin	0.050	(2)									ND	ND	ND	ND
Endosulfan I	0.025										ND	ND	ND	ND
Endosulfan II	0.025		0.0029	0.0030	0.0029	J					ND	ND	ND	ND
Endosulfan sulfate	0.025										ND	ND	ND	ND
Endrin	0.050	(2)	0.0018	0.0027	0.0018	U					ND	ND	ND	ND
Endrin aldehyde	0.075		0.0053	0.0028	0.0028	J	0.011	0.0028	0.0028	J	0.0028	0.0028	0.0028	J
Heptachlor epoxide	0.050	(1)	0.0026	0.0017	0.0017	J	0.0036	0.0037	0.0036	J	0.0036	0.0036	0.0036	J
Heptachlor	0.025	(2)	0.0095	0.018	0.0095	U	0.0034	0.036	0.0034	U	0.0034	0.0034	0.0034	U
Methoxychlor	0.025	(2)									ND	ND	ND	ND
Tetrachloro-m-xylene (3)	56-140	(2)									0.18	0.18	0.18	0.20

(1) Federal Primary MCL  
(2) NY Groundwater Standards from Water Quality Regulations: Surface Water and Groundwater Classifications and Standards, Title 6, Chapter X, 1991  
(3) Surrogate - Control limits are listed in the PQL column.

Qualifiers: U = Blank Contamination  
J = Estimated; UJ = Estimated for Non-detect

TABLE 1-13  
 AIR FORCE PLANT 59  
 GROUNDWATER DATA SUMMARY FOR PCB/PESTICIDE (SW8080)

Parameters	PQL	Action Levels	Environmental Samples (ug/L)				Field Blanks (ug/L)				Method Blank (ug/L)			
			Field ID 59JW9WG1 Lab ID 664213	2C	PR	IC	Field ID 59SW11WG1 Lab ID 664224	2C	PR	IC	Equipment Field ID EB112494 Lab ID 664248	2C	PR	IC
Aldrin	0.025		0.022	0.0008	U			ND		0.0014	U			0.0017
alpha-BHC	0.025			ND				ND		ND				ND
beta-BHC	0.050			ND		0.0078	0.0030	0.0030	U	ND				ND
delta-BHC	0.0010			ND				ND		0.0070				ND
gamma-BHC (Lindane)	0.025		0.0012	0.0012	U			ND		0.0014	J			ND
Decachlorobiphenyl (3)	20-150			0.13				0.066		0.100				0.12
4,4 -DDD	0.050	(2)		ND			0.0019	0.0019	J	ND				ND
4,4 -DDE	0.050	(2)		ND				ND		0.0013	J			ND
4,4 -DDT	0.075	(2)		0.0061	U			ND		ND				ND
Dieldrin	0.050	(2)		0.0022	U			ND		ND				0.0035
Endosulfan I	0.025			0.0022				ND		ND				ND
Endosulfan II	0.025			ND				ND		ND				ND
Endosulfan sulfate	0.025			0.0028	J		0.0010	0.0010	J	ND				ND
Endrin	0.050	(2)		0.0043				ND		0.0019	J			ND
Endrin aldehyde	0.075			ND				ND		0.0054	U			0.0080
Heptachlor epoxide	0.050	(1)		0.0063	J		0.0016	0.0016	J	ND				ND
Heptachlor	0.025	(2)		0.0013	J		0.016	0.0009	J	ND				ND
Methoxychlor	0.025	(2)		ND				ND		ND				0.0005
Tetrachloro-m-xylene (3)	56-140	(2)		0.19				0.18		ND				0.20



TABLE I-13  
 AIR FORCE PLANT 59  
 GROUNDWATER DATA SUMMARY FOR PCB/PESTICIDE (SW8080)

Parameters	PQL	Action Levels	Environmental Samples (ug/L)						Field Blanks (ug/L)			Method Blank (ug/L)							
			Field ID	IC	2C	PR	IC	2C	PR	Field ID	IC	2C	PR	Field ID	IC	2C	PR		
Aldrin	0.025		59IW13WG1																
alpha-BHC	0.025		Lab ID																
beta-BHC	0.050		667052																
delta-BHC	0.0010																		
gamma-BHC (Lindane)	0.025																		
Decachlorobiphenyl (3)	20-150																		
4,4 -DDD	0.050	ND (2)																	
4,4 -DDE	0.050	ND (2)		0.022	0.024														
4,4 -DDT	0.075	ND (2)		0.044	0.014														
Dieldrin	0.050	ND (2)																	
Endosulfan I	0.025																		
Endosulfan II	0.025																		
Endosulfan sulfate	0.025																		
Endrin	0.050	ND (2)																	
Endrin aldehyde	0.075																		
Heptachlor epoxide	0.050	0.2 (1)																	
Heptachlor	0.025	ND (2)																	
Methoxychlor	0.025	35 (2)		0.47	0.12														
Tetrachloro-m-xylene (3)	56-140																		

TABLE 1-13  
 AIR FORCE PLANT 59  
 GROUNDWATER DATA SUMMARY FOR PCB/PESTICIDE (SW8080)

Parameters	PQL	Action Levels	Environmental Samples (ug/L)						Field Blanks (ug/L)						Method Blank (ug/L)	
			59DW12WGI			59SW9WGI			EB112394			663816			664112	
			IC	2C	PR	IC	2C	PR	IC	2C	PR	IC	2C	PR	IC	2C
Aldrin	0.025	ND	0.16	0.15	ND	0.0005	0.0015	ND	0.0005	0.0005	ND	0.0071	0.068	ND	0.065	0.13
alpha-BHC	0.025	ND	0.16	0.15	ND	0.0005	0.0015	ND	0.0005	0.0005	ND	0.0071	0.068	ND	0.065	0.13
beta-BHC	0.050	ND	0.16	0.15	ND	0.0005	0.0015	ND	0.0005	0.0005	ND	0.0071	0.068	ND	0.065	0.13
delta-BHC	0.0010	ND	0.16	0.15	ND	0.0005	0.0015	ND	0.0005	0.0005	ND	0.0071	0.068	ND	0.065	0.13
gamma-BHC (Lindane)	0.025	ND	0.16	0.15	ND	0.0005	0.0015	ND	0.0005	0.0005	ND	0.0071	0.068	ND	0.065	0.13
Decachlorobiphenyl (3)	20-150	ND	0.16	0.15	ND	0.0005	0.0015	ND	0.0005	0.0005	ND	0.0071	0.068	ND	0.065	0.13
4,4 -DDD	0.050	ND	0.16	0.15	ND	0.0005	0.0015	ND	0.0005	0.0005	ND	0.0071	0.068	ND	0.065	0.13
4,4 -DDE	0.050	ND	0.16	0.15	ND	0.0005	0.0015	ND	0.0005	0.0005	ND	0.0071	0.068	ND	0.065	0.13
4,4 -DDT	0.075	ND	0.16	0.15	ND	0.0005	0.0015	ND	0.0005	0.0005	ND	0.0071	0.068	ND	0.065	0.13
Dieldrin	0.050	ND	0.16	0.15	ND	0.0005	0.0015	ND	0.0005	0.0005	ND	0.0071	0.068	ND	0.065	0.13
Endosulfan I	0.025	ND	0.16	0.15	ND	0.0005	0.0015	ND	0.0005	0.0005	ND	0.0071	0.068	ND	0.065	0.13
Endosulfan II	0.025	ND	0.16	0.15	ND	0.0005	0.0015	ND	0.0005	0.0005	ND	0.0071	0.068	ND	0.065	0.13
Endosulfan sulfate	0.025	ND	0.16	0.15	ND	0.0005	0.0015	ND	0.0005	0.0005	ND	0.0071	0.068	ND	0.065	0.13
Endrin	0.050	ND	0.16	0.15	ND	0.0005	0.0015	ND	0.0005	0.0005	ND	0.0071	0.068	ND	0.065	0.13
Endrin aldehyde	0.075	ND	0.16	0.15	ND	0.0005	0.0015	ND	0.0005	0.0005	ND	0.0071	0.068	ND	0.065	0.13
Heptachlor epoxide	0.050	0.2	0.16	0.15	ND	0.0005	0.0015	ND	0.0005	0.0005	ND	0.0071	0.068	ND	0.065	0.13
Heptachlor	0.025	ND	0.16	0.15	ND	0.0005	0.0015	ND	0.0005	0.0005	ND	0.0071	0.068	ND	0.065	0.13
Methoxychlor	0.025	35	0.16	0.15	ND	0.0005	0.0015	ND	0.0005	0.0005	ND	0.0071	0.068	ND	0.065	0.13
Tetrachloro-m-xylene (3)	56-140	35	0.16	0.15	ND	0.0005	0.0015	ND	0.0005	0.0005	ND	0.0071	0.068	ND	0.065	0.13

TABLE I-13  
 AIR FORCE PLANT 59  
 GROUNDWATER DATA SUMMARY FOR PCB/PESTICIDE (SW8080)

Parameters	PQL	Action Levels	Environmental Samples (ug/L)						Field Blanks (ug/L)						Method Blank (ug/L)				
			Field ID 59SW3WG1 Lab ID 663585	IC	2C	PR	Field ID 59SW3WG9 Lab ID 663610	IC	2C	PR	Equipment Field ID EB112294 Lab ID 663616	IC	2C	PR	IC	2C	PR		
Aldrin	0.025		0.0002	0.0011	ND	0.0002 J	0.0027	0.0027	ND	0.0048	0.062	0.0048	0.062	0.0048	0.062	0.0048	0.062	0.062	0.13
alpha-BHC	0.025		0.0004	0.0030	ND	0.0004 J	0.0011	0.0044	0.0070	0.0048	0.062	0.0048	0.062	0.0048	0.062	0.0048	0.062	0.062	0.13
beta-BHC	0.050		0.0004	0.0030	ND	0.0004 J	0.0011	0.0044	0.0070	0.0048	0.062	0.0048	0.062	0.0048	0.062	0.0048	0.062	0.062	0.13
delta-BHC	0.0010		0.0004	0.0030	ND	0.0004 J	0.0011	0.0044	0.0070	0.0048	0.062	0.0048	0.062	0.0048	0.062	0.0048	0.062	0.062	0.13
gamma-BHC (Lindane)	0.025		0.0004	0.0030	ND	0.0004 J	0.0011	0.0044	0.0070	0.0048	0.062	0.0048	0.062	0.0048	0.062	0.0048	0.062	0.062	0.13
Decachlorobiphenyl (3)	20-150		0.0004	0.0030	ND	0.0004 J	0.0011	0.0044	0.0070	0.0048	0.062	0.0048	0.062	0.0048	0.062	0.0048	0.062	0.062	0.13
4,4 -DDD	0.050	ND (2)	0.0020	0.0028	ND	0.0020 J	0.0027	0.0030	0.0027	0.0027	0.0030	0.0027	0.0030	0.0027	0.0030	0.0027	0.0030	0.0027	0.13
4,4 -DDE	0.050	ND (2)	0.0020	0.0028	ND	0.0020 J	0.0027	0.0030	0.0027	0.0027	0.0030	0.0027	0.0030	0.0027	0.0030	0.0027	0.0030	0.0027	0.13
4,4 -DDT	0.075	ND (2)	0.0020	0.0028	ND	0.0020 J	0.0027	0.0030	0.0027	0.0027	0.0030	0.0027	0.0030	0.0027	0.0030	0.0027	0.0030	0.0027	0.13
Dieldrin	0.050	ND (2)	0.0011	0.015	ND	0.0011 J	0.0010	0.0025	0.0010	0.0010	0.0025	0.0010	0.0025	0.0010	0.0025	0.0010	0.0025	0.0010	0.13
Endosulfan I	0.025		0.0011	0.015	ND	0.0011 J	0.0015	0.0019	0.0015	0.0015	0.0019	0.0015	0.0019	0.0015	0.0019	0.0015	0.0019	0.0015	0.13
Endosulfan II	0.025		0.0011	0.015	ND	0.0011 J	0.0015	0.0019	0.0015	0.0015	0.0019	0.0015	0.0019	0.0015	0.0019	0.0015	0.0019	0.0015	0.13
Endosulfan sulfate	0.025		0.0005	0.033	ND	0.0005 J	0.0066	0.0041	0.0041	0.0041	0.0041	0.0041	0.0041	0.0041	0.0041	0.0041	0.0041	0.0041	0.13
Endrin	0.050	ND (2)	0.0005	0.033	ND	0.0005 J	0.0011	0.031	0.0011	0.0011	0.031	0.0011	0.031	0.0011	0.031	0.0011	0.031	0.0011	0.13
Endrin aldehyde	0.075		0.0075	0.013	ND	0.0075 J	0.0008	0.013	0.0008	0.0008	0.013	0.0008	0.013	0.0008	0.013	0.0008	0.013	0.0008	0.13
Heptachlor epoxide	0.050	0.2 (1)	0.0075	0.013	ND	0.0075 J	0.0008	0.013	0.0008	0.0008	0.013	0.0008	0.013	0.0008	0.013	0.0008	0.013	0.0008	0.13
Heptachlor	0.025	ND (2)	0.0046	0.0088	ND	0.0046 J	0.0046	0.0088	0.0046	0.0046	0.0088	0.0046	0.0088	0.0046	0.0088	0.0046	0.0088	0.0046	0.13
Methoxychlor	0.025	35 (2)	0.0046	0.0088	ND	0.0046 J	0.0046	0.0088	0.0046	0.0046	0.0088	0.0046	0.0088	0.0046	0.0088	0.0046	0.0088	0.0046	0.13
Tetrachloro-m-xylene (3)	56-140		0.0046	0.0088	ND	0.0046 J	0.0046	0.0088	0.0046	0.0046	0.0088	0.0046	0.0088	0.0046	0.0088	0.0046	0.0088	0.0046	0.13

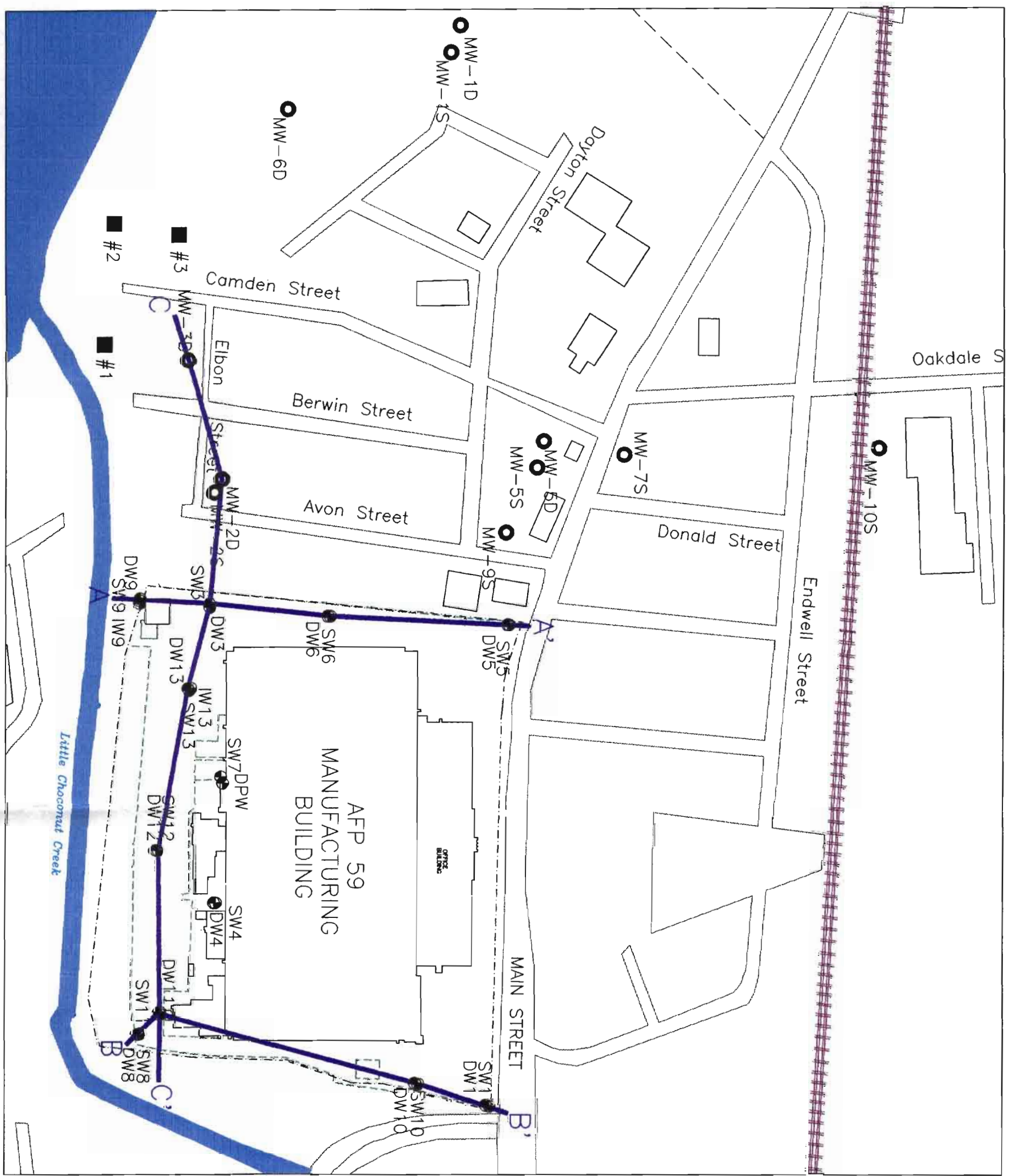
TABLE I-13  
 AIR FORCE PLANT 59  
 GROUNDWATER DATA SUMMARY FOR PCB/PESTICIDE (SW8080)

Parameters	PQL	Action Levels	Environmental Samples (ug/L)						Field Blanks (ug/L)						Method Blank (ug/L)		
			Field ID			Field ID			Equipment			Equipment			Lab ID		
			IC	2C	PR	IC	2C	PR	IC	2C	PR	IC	2C	PR	IC	2C	PR
Aldrin	0.025		0.0003	0.0054	ND												ND
alpha-BHC	0.025		0.0003	0.0054	0.0003	J											ND
beta-BHC	0.050		ND		ND												ND
delta-BHC	0.0010		0.0031	0.0031	0.0031	J											ND
gamma-BHC (Lindane)	0.025		0.0012	0.0073	0.0012	J											ND
Decachlorobiphenyl (3)	20-150		0.17		0.17												0.13
4,4 -DDD	0.050	(2)	ND		ND												ND
4,4 -DDE	0.050	(2)	ND		ND												ND
4,4 -DDT	0.075	(2)	ND		ND												ND
Dieldrin	0.050	(2)	ND		ND												ND
Endosulfan I	0.025		ND		ND												ND
Endosulfan II	0.025		0.0054	0.0046	0.0046	J											ND
Endosulfan sulfate	0.025		0.0016	0.044	0.0016	J											ND
Endrin	0.050	(2)	0.0010	0.0025	0.0010	J											ND
Endrin aldehyde	0.075		0.0019	0.011	0.0019	J											ND
Heptachlor epoxide	0.050	(1)	0.52	0.0056	0.0056	J											ND
Heptachlor	0.025	(2)			ND	UJ											ND
Methoxychlor	0.025	(2)			ND												ND
Tetrachloro-m-xylene (3)	56-140	(2)			0.19												0.20

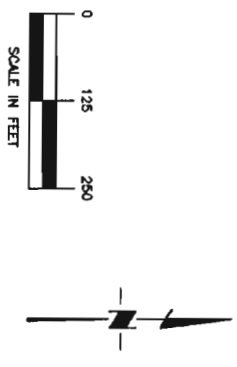
TABLE I-13  
 AIR FORCE PLANT 59  
 GROUNDWATER DATA SUMMARY FOR PCB/PESTICIDE (SW8080)

Parameters	PQL	Action Levels	Environmental Samples (ug/L)						Field Blanks (ug/L)			Method Blank (ug/L)								
			Field ID 59DW13WGI Lab ID 663570	IC	2C	PR	Field ID Lab ID	IC	2C	PR	IC	2C	PR							
Aldrin	0.025		0.0025	0.057	0.0025	J														
alpha-BHC	0.025		0.0019	0.0013	0.0013	J														
beta-BHC	0.050		0.025	0.0051	0.0051	U														
delta-BHC	0.0010		0.030	0.0021	0.0021	U														
gamma-BHC (Lindane)	0.025		0.0074	0.0049	0.0049	U														
Decachlorobiphenyl (3)	20-150																			
4,4 -DDD	0.050	ND				0.19														
4,4 -DDE	0.050	ND	0.017	0.0031	0.0031	U														
4,4 -DDT	0.075	ND	0.016	0.0032	0.0032	J														
Dieldrin	0.050	ND	0.0005	0.013	0.0005	U														
Endosulfan I	0.025		0.0013	0.021	0.0013	J														
Endosulfan II	0.025					ND														
Endosulfan sulfate	0.025		0.0023	0.24	0.0023	U														
Endrin	0.050	ND	0.0013	0.14	0.0013	U														
Endrin aldehyde	0.075		0.0008	0.0040	0.0008	J														
Heptachlor epoxide	0.050	0.2				ND														
Heptachlor	0.025	ND	0.0077	0.0020	0.0020	U														
Methoxychlor	0.025	35	0.011	0.011	0.011	J														
Tetrachloro-m-xylene (3)	56-140					0.18														



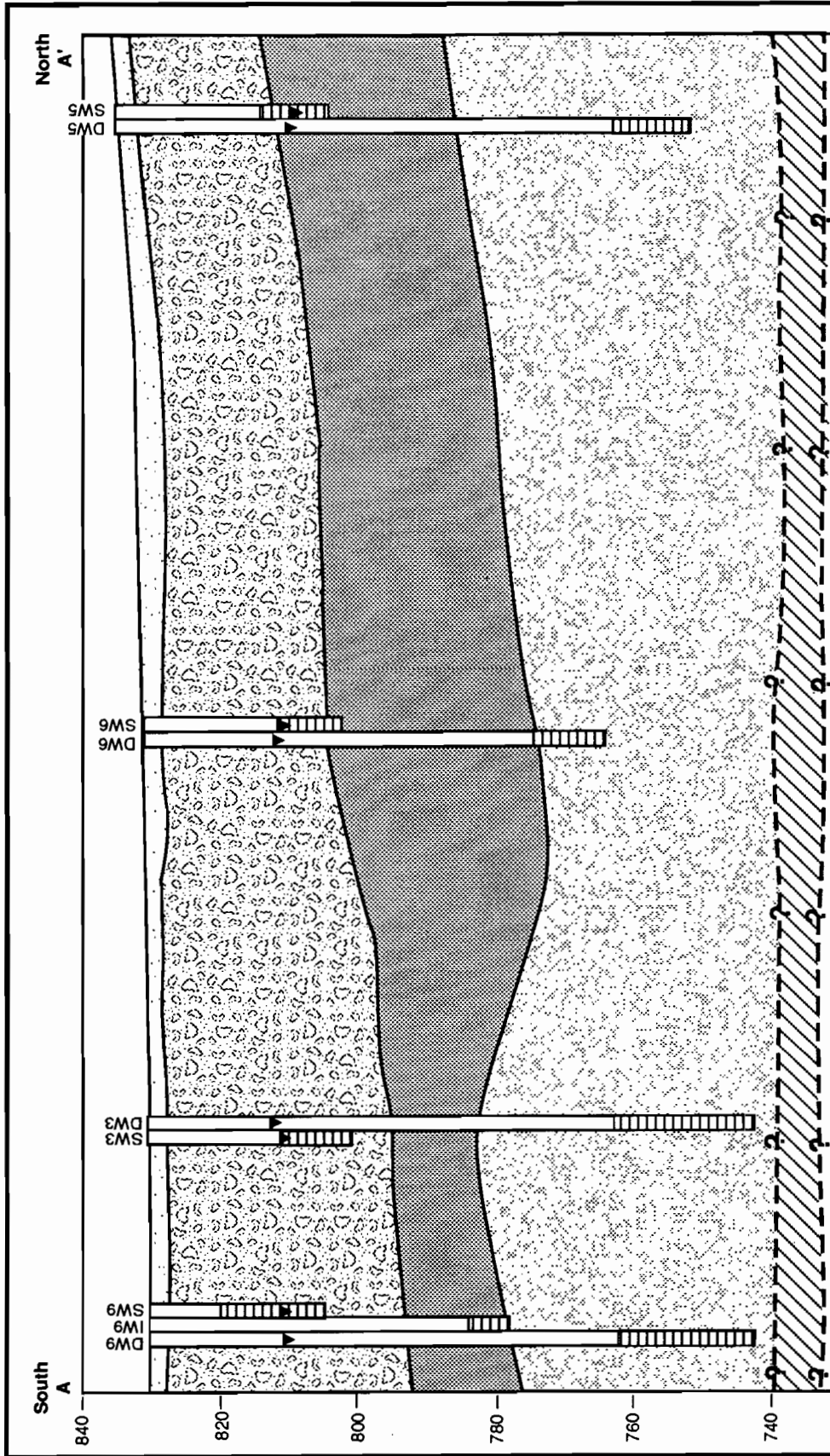


- LEGEND**
- SW6 AFP 59 MONITORING WELL
  - MW-3S NYSDEC MONITORING WELL
  - #2 JOHNSON CITY WATER SUPPLY WELL
  - LOCATION OF CROSS-SECTIONS
  - BASE BOUNDARY
  - FENCE










**FIGURE 3-4**  
**LOCATIONS OF CROSS-SECTIONS**  
 A-A', B-B', AND C-C'

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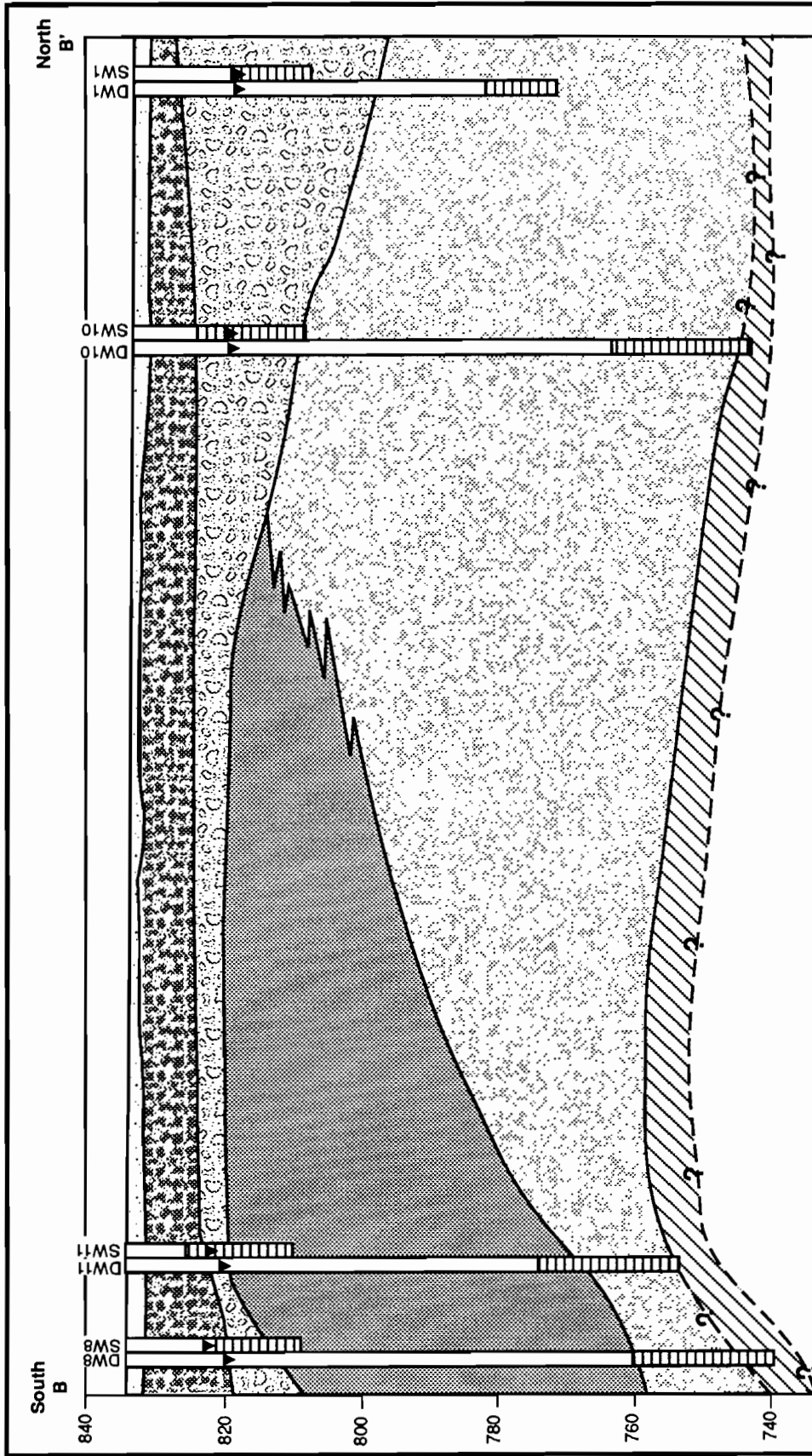
**Explanation**

-  Fill/Asphalt/Topsoil
  -  Fine-Grained Alluvium
  -  Glacial Outwash Deposits
  -  Fine-Grained Glacial Deposits
  -  Ice-Contact Deposits
  -  Glacial Till
  -  Water Level Measured December 6, 1994
- Vertical scale in feet above MSL  
Vertical exaggeration = 5
- Horizontal scale in feet

**FIGURE 3-5**

**Cross-Section A-A'**

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**Explanation**

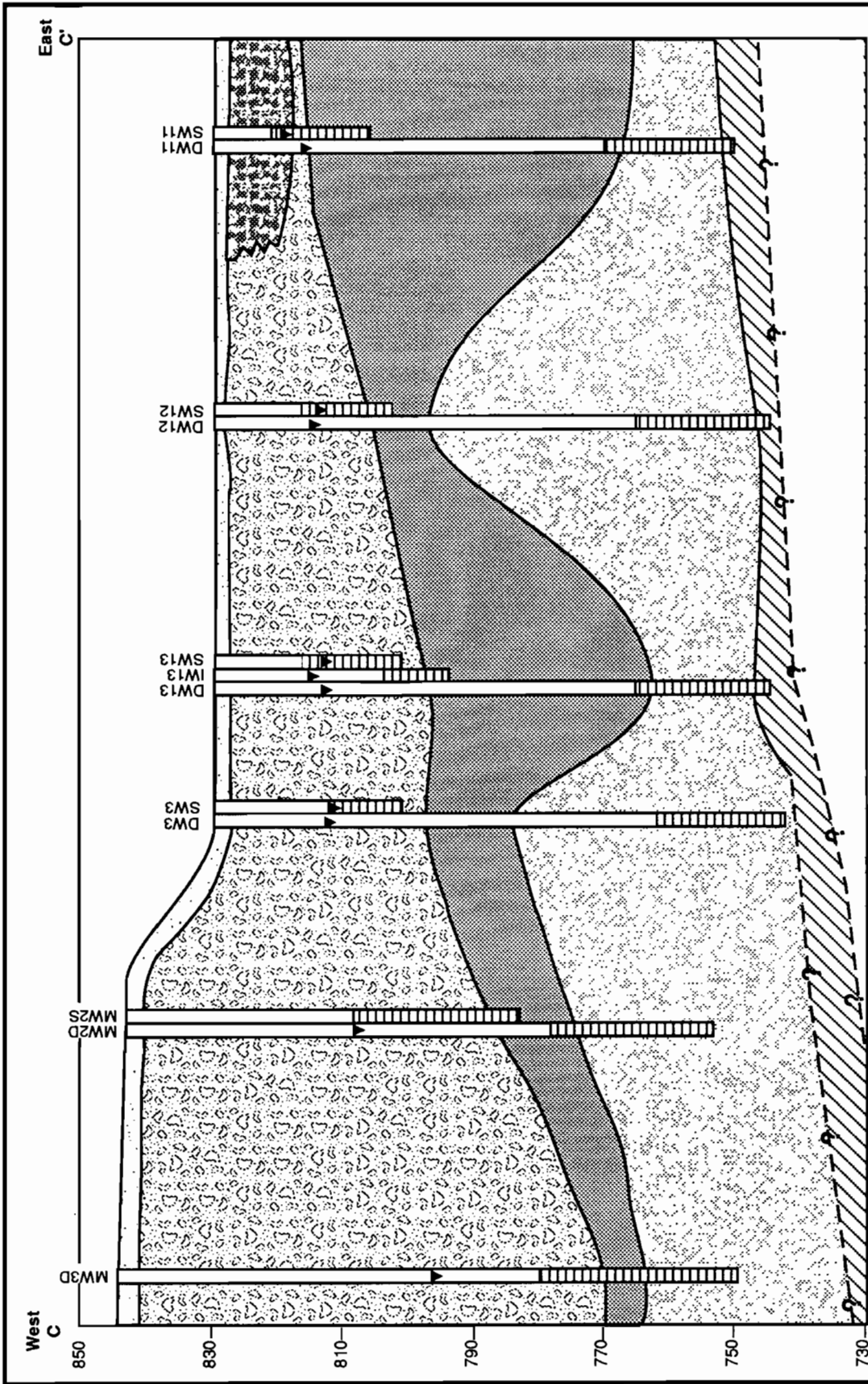
- Fill/Asphalt/Topsoil
  - Fine-Grained Alluvium
  - Glacial Outwash Deposits
  - Fine-Grained Glacial Deposits
  - Ice-Contact Deposits
  - Glacial Till
  - Water Level Measured December 6, 1994
- Vertical scale in feet above MSL  
 Vertical exaggeration = 5
- Horizontal scale in feet



**FIGURE 3-6**

**Cross-Section B-B'**

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**Explanation**

- Fill/Asphalt/Topsoil
- Fine-Grained Alluvium
- Glacial Outwash Deposits
- Fine-Grained Glacial Deposits
- Ice-Contact Deposits
- Glacial Till
- Water Level Measured December 6, 1994

Vertical scale in feet above MSL  
Vertical exaggeration = 10

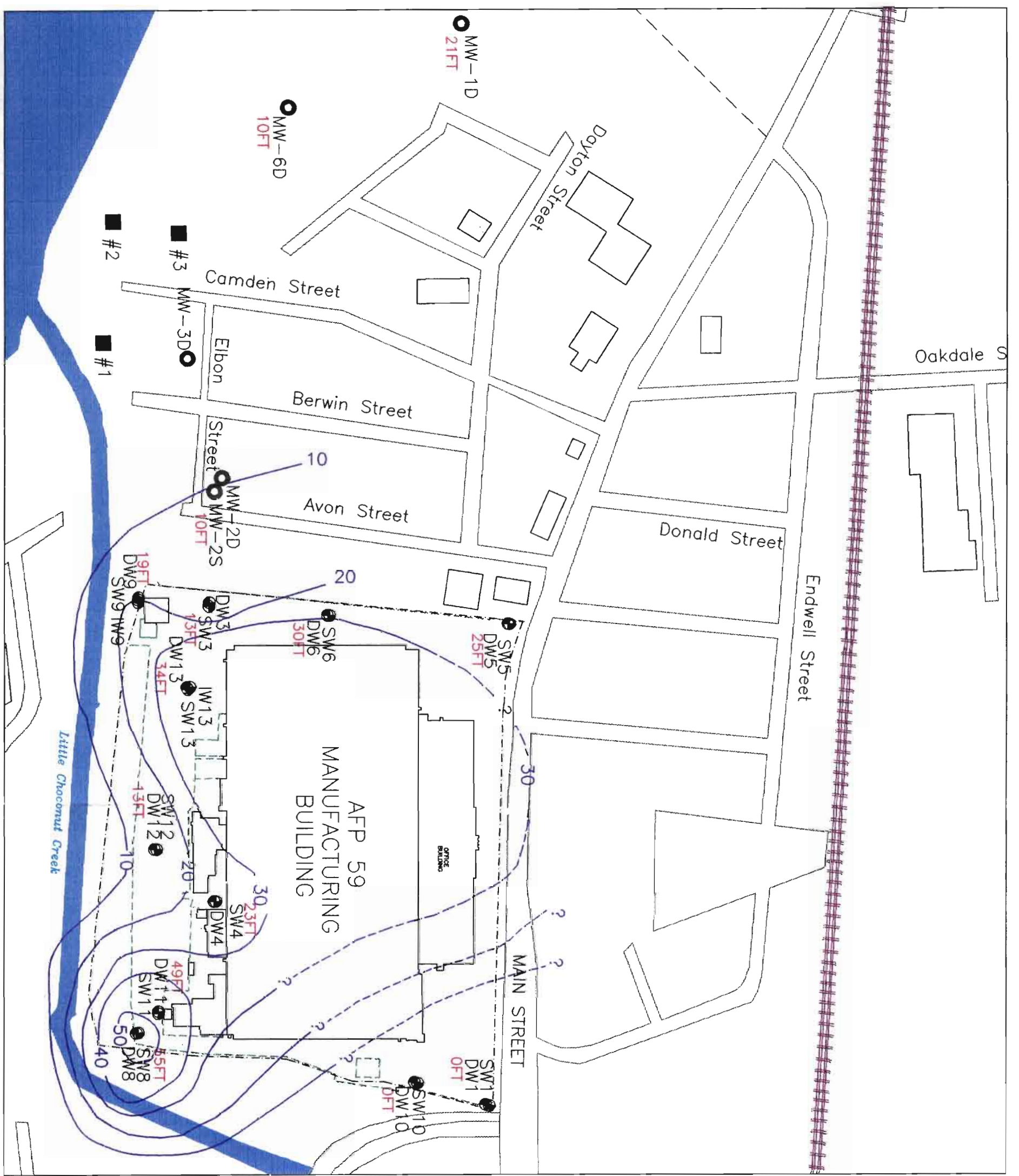


**FIGURE 3-7**

**Cross-Section C-C'**

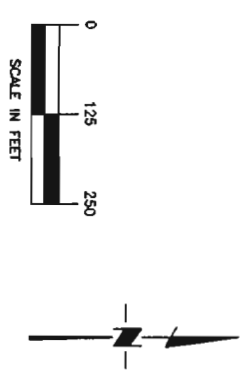
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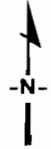
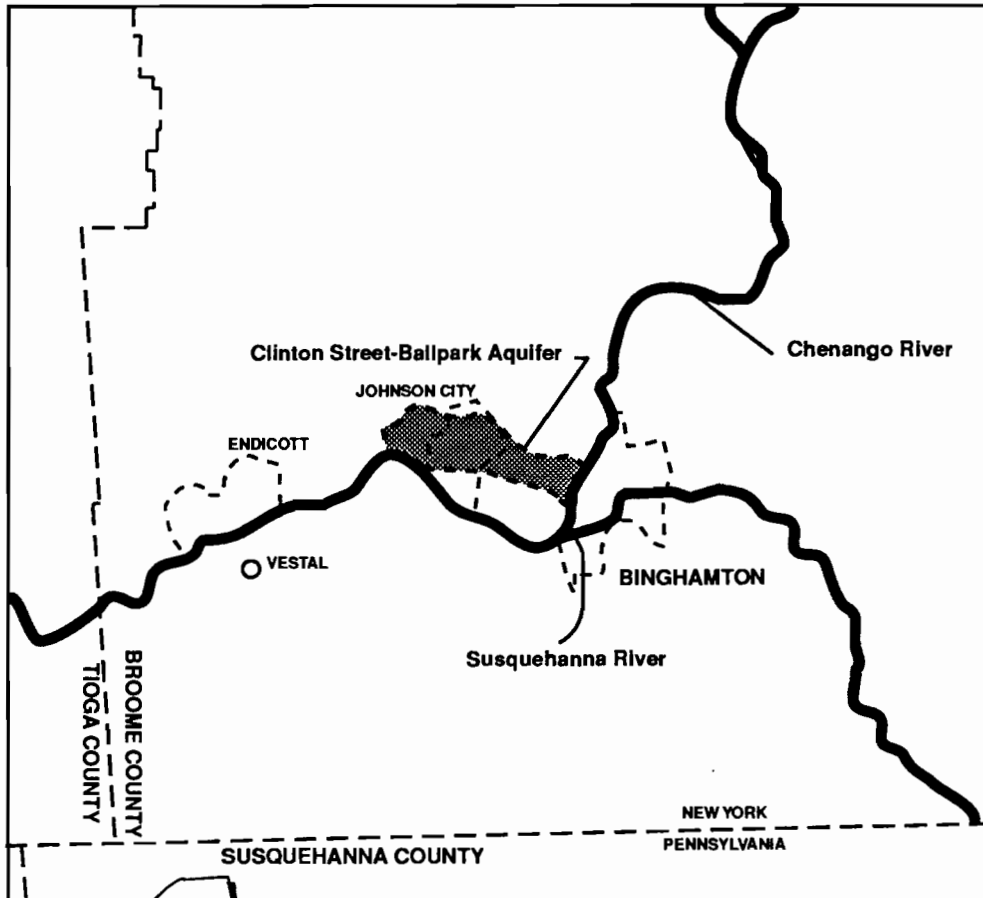
- LEGEND**
- DW 1 AFP 59 MONITORING WELL
  - MW-3D NYSDEC MONITORING WELL
  - #2 JOHNSON CITY WATER SUPPLY WELL
  - 49FT THICKNESS OF FINE-GRAINED DEPOSITS
  - FINE-GRAINED DEPOSIT THICKNESS CONTOUR
  - - - BASE BOUNDARY
  - FENCE

NOTE: THICKNESS OF FINE-GRAINED GLACIAL DEPOSITS  
 BASED ON BOREHOLE LOGS  
 CONTOUR INTERVAL = 10FT



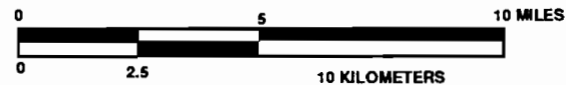
**EARTH TECH** **FIGURE 3-8**  
 THICKNESS OF FINE-GRAINED GLACIAL DEPOSITS  
 IN THE VICINITY OF AFP 59

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**EXPLANATION**

 Extent of Aquifer

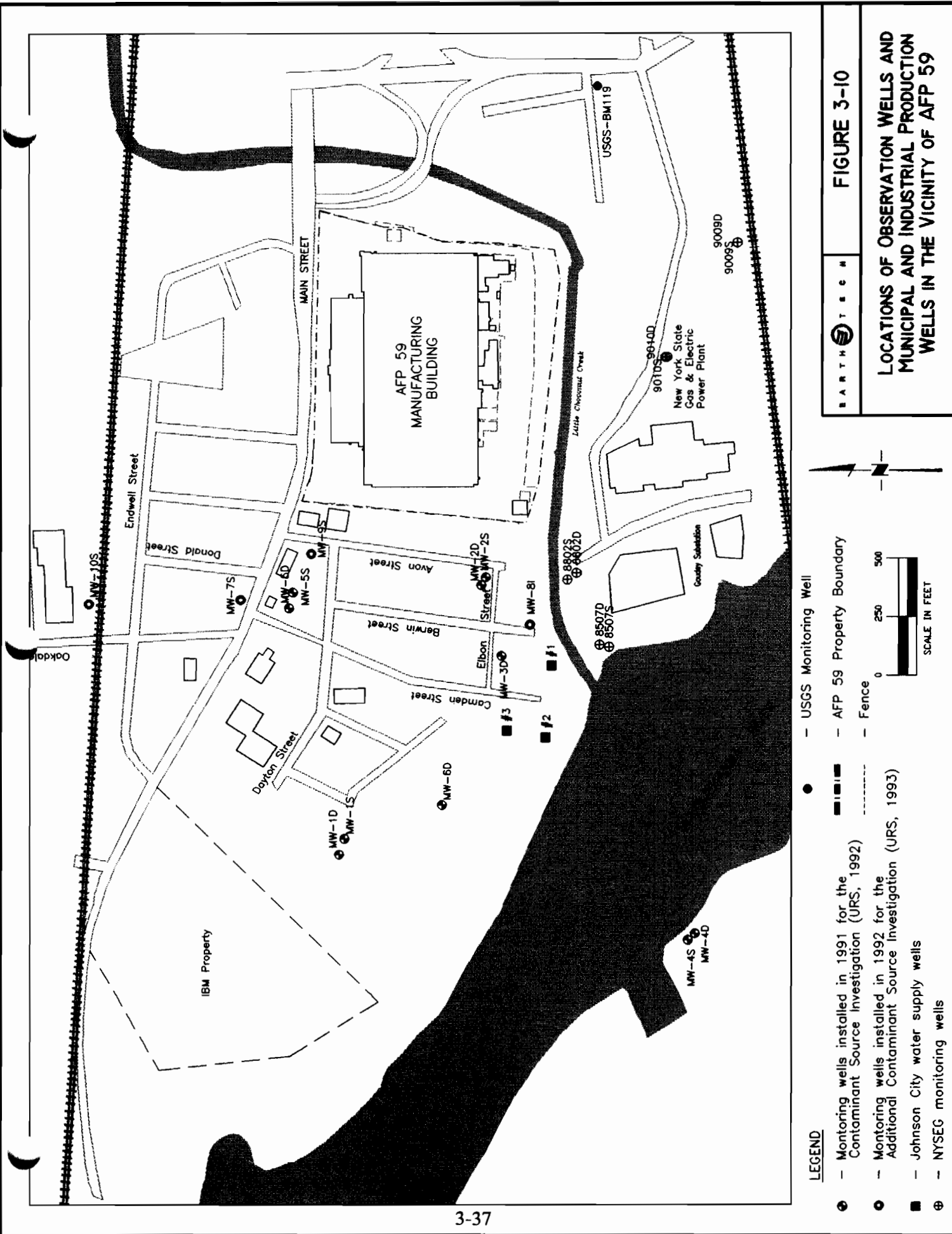


EARTH  TECH **FIGURE 3-9**

**Location of the Clinton Street-Ballpark Aquifer**

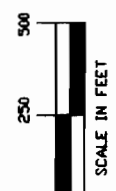
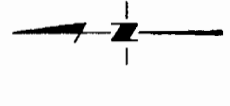
Source: NYSDEC Bulletin 73, 1977

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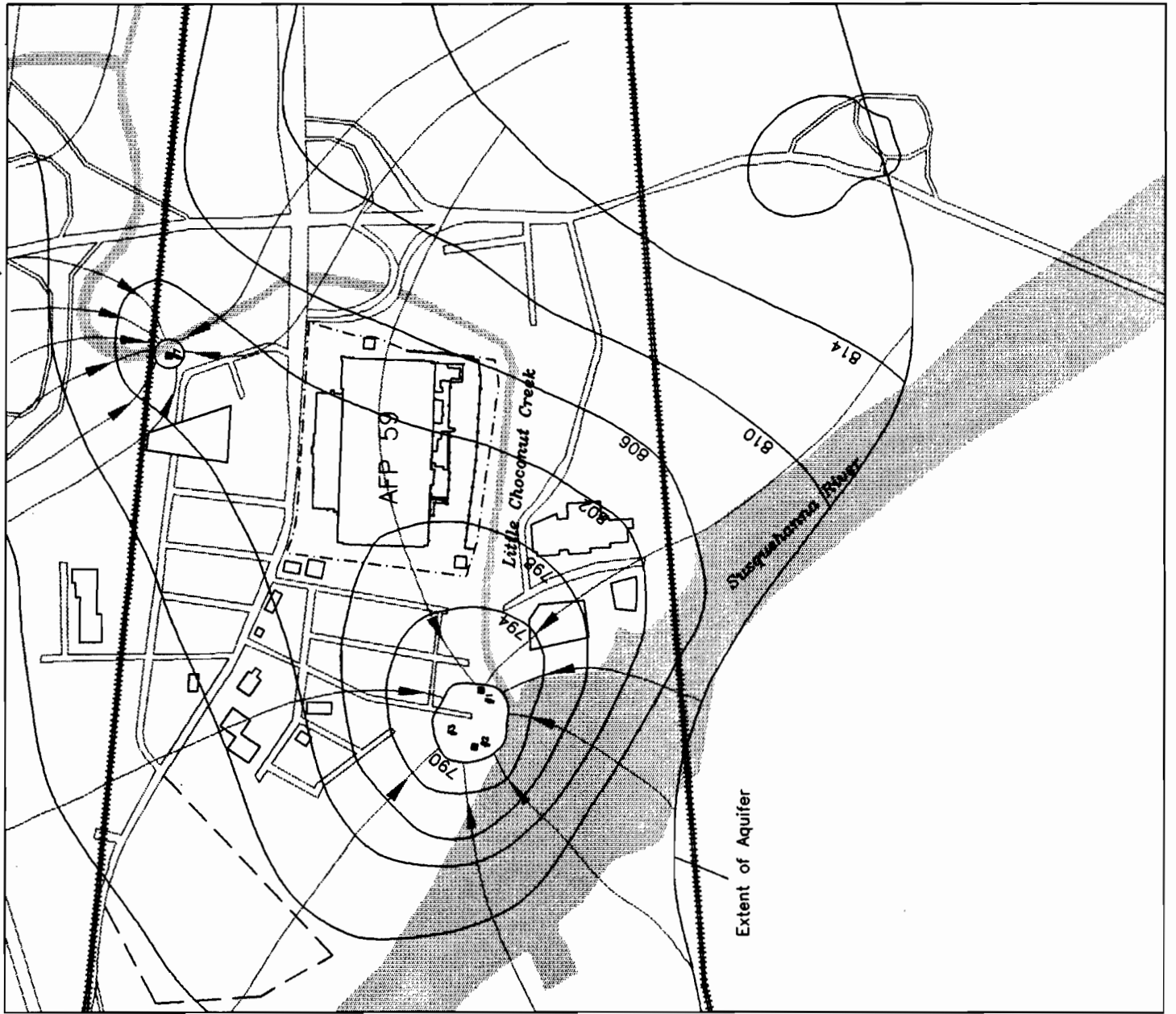
**FIGURE 3-10**

**LOCATIONS OF OBSERVATION WELLS AND MUNICIPAL AND INDUSTRIAL PRODUCTION WELLS IN THE VICINITY OF AFP 59**



- LEGEND**
- Monitoring wells installed in 1991 for the Contaminant Source Investigation (URS, 1992)
  - Monitoring wells installed in 1992 for the Additional Contaminant Source Investigation (URS, 1993)
  - Johnson City water supply wells
  - ⊕ NYSEG monitoring wells
  - USGS Monitoring Well
  - ▬ AFP 59 Property Boundary
  - - - Fence

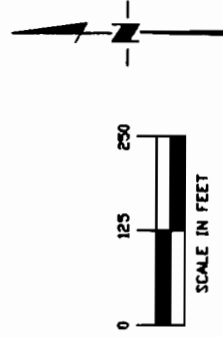
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**LEGEND**

- #3
- 814
- City Water Supply Well
- Water Level Contour (feet above MSL)
- Flow Direction
- AFP 59 Property Boundary

Source: NYSDEC Bulletin 73, 1977



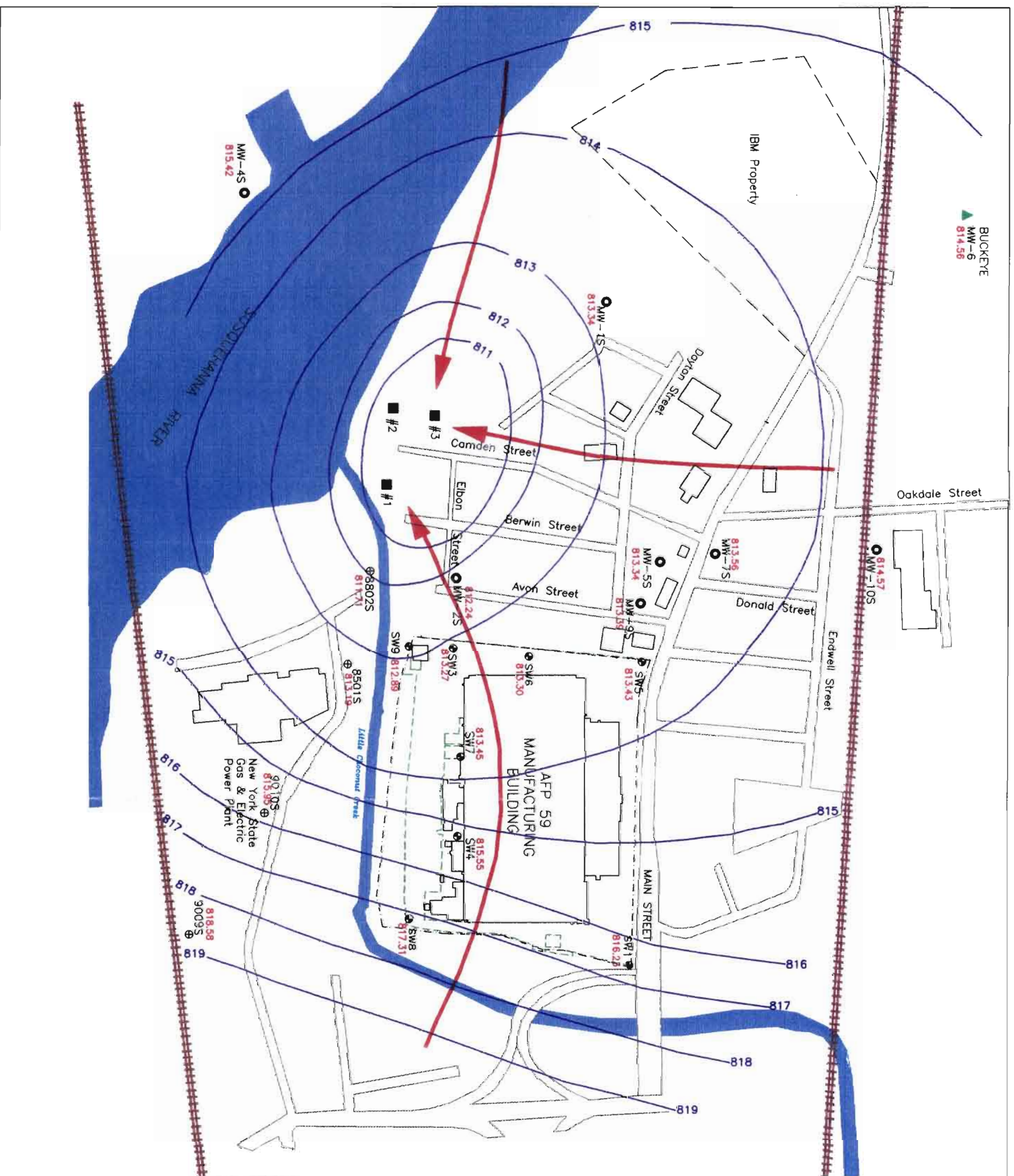
EARTH T E C

**FIGURE 3-II**

**REGIONAL GROUNDWATER FLOW NET OF THE  
CLINTON STREET - BALLPARK AQUIFER  
OCTOBER 6, 1967**

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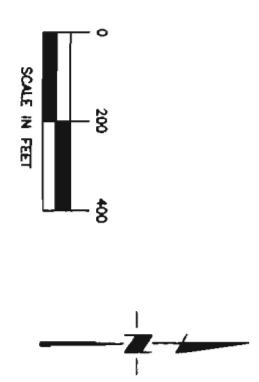




- LEGEND**
- ⊕ SW4 AFP 59 MONITORING WELL
  - ⊕ MW-3S NYSDEC MONITORING WELL
  - ⊕ 8507S NYSEG MONITORING WELL
  - ▲ MW-6 MONITORING WELL AT BUCKEYE PIPELINE CO.
  - ▲ MW-3S JOHNSON CITY WATER SUPPLY WELL
  - #2 GROUNDWATER ELEVATION (FEET MSL)
  - 819.23 GROUNDWATER ELEVATION CONTOUR (FEET MSL)
  - GROUNDWATER FLOW DIRECTION
  - - - - - BASE BOUNDARY
  - FENCE

NOTE: GROUNDWATER ELEVATIONS WERE MEASURED FROM AUGUST 22-24, 1994

CONTOUR INTERVAL = 1FT.



**EARTH TECH** **FIGURE 3-12**  
**POTENTIOMETRIC SURFACE AND GROUNDWATER FLOW (SHALLOW WELLS) IN THE VICINITY OF AFP 59 AUGUST 22-24, 1994**

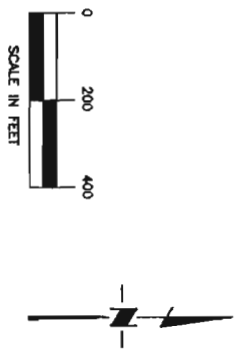
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- LEGEND**
- ⊕ DW4 AFP 59 MONITORING WELL
  - ⊙ MW-3D NYSDEC MONITORING WELL
  - ⊕ 8507D NYSEG MONITORING WELL
  - ⊙ BM 119 USGS MONITORING WELL
  - #2 JOHNSON CITY WATER SUPPLY WELL
  - 819.23 GROUNDWATER ELEVATION (FEET MSL)
  - 819.23 GROUNDWATER ELEVATION (FEET MSL)
  - GROUNDWATER FLOW DIRECTION
  - - - BASE BOUNDARY
  - ▨ FENCE

NOTE: GROUNDWATER ELEVATIONS WERE MEASURED FROM AUGUST 22-24, 1994

CONTOUR INTERVAL = 1FT.



**EARTH TECH** **FIGURE 3-13**

**POTENTIOMETRIC SURFACE AND GROUNDWATER FLOW (DEEP WELLS) IN THE VICINITY OF AFP 59 AUGUST 22-24, 1994**

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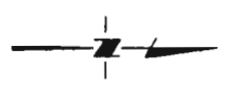
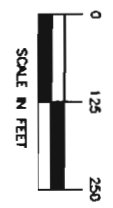


**LEGEND**

- SW4 AFP 59 MONITORING WELL
- ⊙ 815.72 AFP 59 CREEK BED ELEVATION
- #2 JOHNSON CITY WATER SUPPLY WELL
- ⊙ 819.23 GROUNDWATER ELEVATION (FEET MSL)
- GROUNDWATER ELEVATION CONTOUR (FEET MSL)
- GROUNDWATER FLOW DIRECTION
- - - BASE BOUNDARY
- FENCE

NOTE: GROUNDWATER ELEVATIONS WERE MEASURED ON DECEMBER 6, 1994, PRIOR TO THE PUMPING TEST.

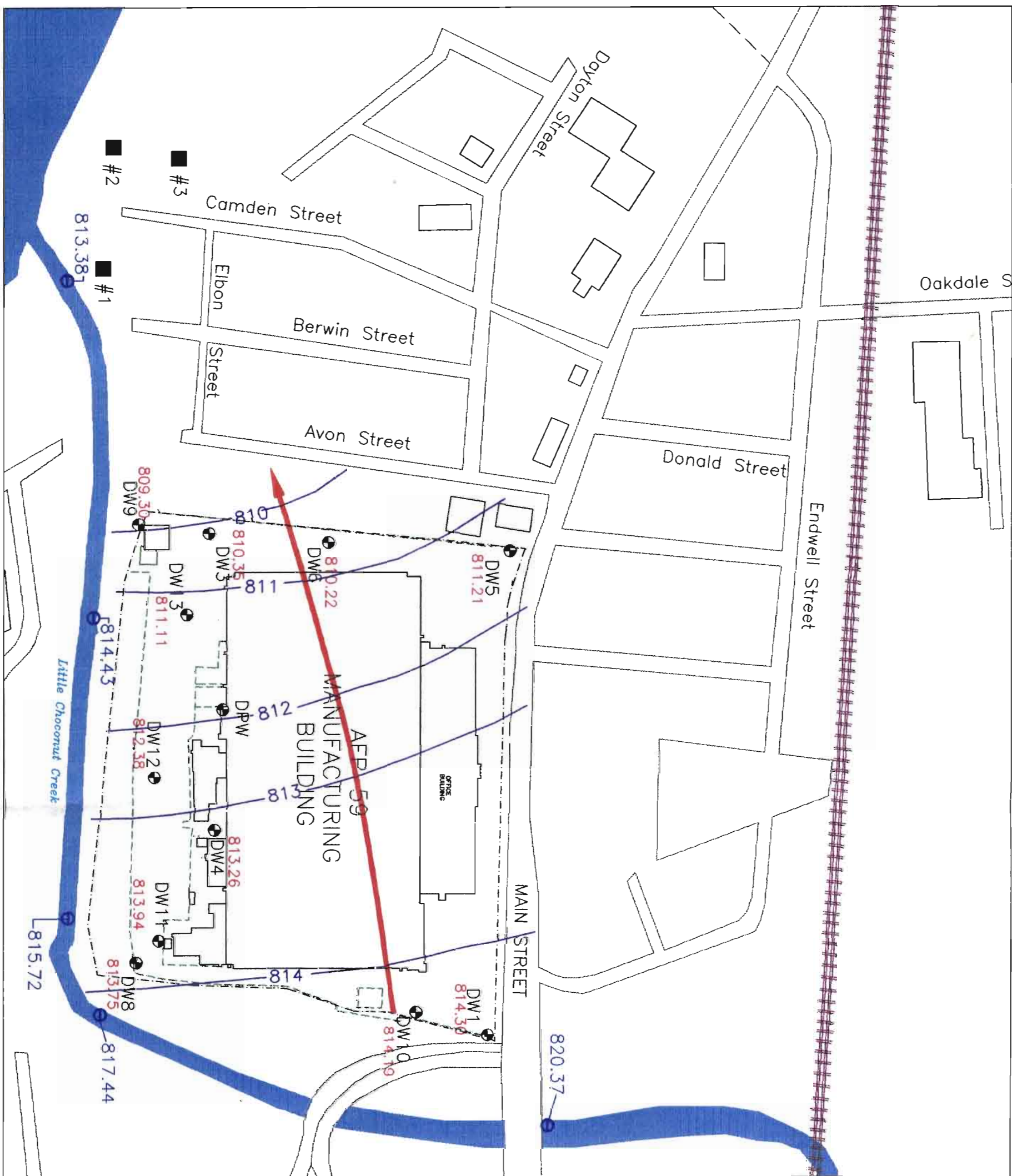
CONTOUR INTERVAL = 1FT.



**FIGURE 3-14**

**POTENTIOMETRIC SURFACE AND GROUNDWATER FLOW AT AFP 59 (SHALLOW WELLS) PRIOR TO PUMPING TEST**

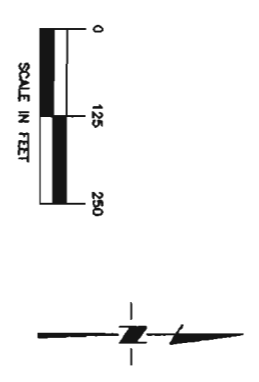
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- LEGEND**
- ⊕ DW4 AFP 59 MONITORING WELL
  - ⊕ 815.72 CREEK BED ELEVATION
  - #2 JOHNSON CITY WATER SUPPLY WELL
  - 819.23 GROUNDWATER ELEVATION (FEET MSL)
  - 814.58 GROUNDWATER ELEVATION (FEET MSL)
  - 814.19 GROUNDWATER ELEVATION (FEET MSL)
  - 813.75 GROUNDWATER ELEVATION (FEET MSL)
  - 813.94 GROUNDWATER ELEVATION (FEET MSL)
  - 813.26 GROUNDWATER ELEVATION (FEET MSL)
  - 812.38 GROUNDWATER ELEVATION (FEET MSL)
  - 811.21 GROUNDWATER ELEVATION (FEET MSL)
  - 811.11 GROUNDWATER ELEVATION (FEET MSL)
  - 810.35 GROUNDWATER ELEVATION (FEET MSL)
  - 810.22 GROUNDWATER ELEVATION (FEET MSL)
  - 809.30 GROUNDWATER ELEVATION (FEET MSL)
  - 815.72 CREEK BED ELEVATION
  - 814.43 DPW GROUNDWATER ELEVATION (FEET MSL)
  - 814.19 DW10 GROUNDWATER ELEVATION (FEET MSL)
  - 814.58 DW1 GROUNDWATER ELEVATION (FEET MSL)
  - 813.75 DW8 GROUNDWATER ELEVATION (FEET MSL)
  - 813.94 DW11 GROUNDWATER ELEVATION (FEET MSL)
  - 813.26 DW4 GROUNDWATER ELEVATION (FEET MSL)
  - 812.38 DW12 GROUNDWATER ELEVATION (FEET MSL)
  - 811.11 DW7 GROUNDWATER ELEVATION (FEET MSL)
  - 811.21 DW5 GROUNDWATER ELEVATION (FEET MSL)
  - 810.35 DW3 GROUNDWATER ELEVATION (FEET MSL)
  - 810.22 DW6 GROUNDWATER ELEVATION (FEET MSL)
  - 809.30 DW9 GROUNDWATER ELEVATION (FEET MSL)
- GROUNDWATER FLOW DIRECTION
  - - - BASE BOUNDARY
  - - - FENCE

NOTE: GROUNDWATER ELEVATIONS WERE MEASURED ON DECEMBER 6, 1994, PRIOR TO THE PUMPING TEST.

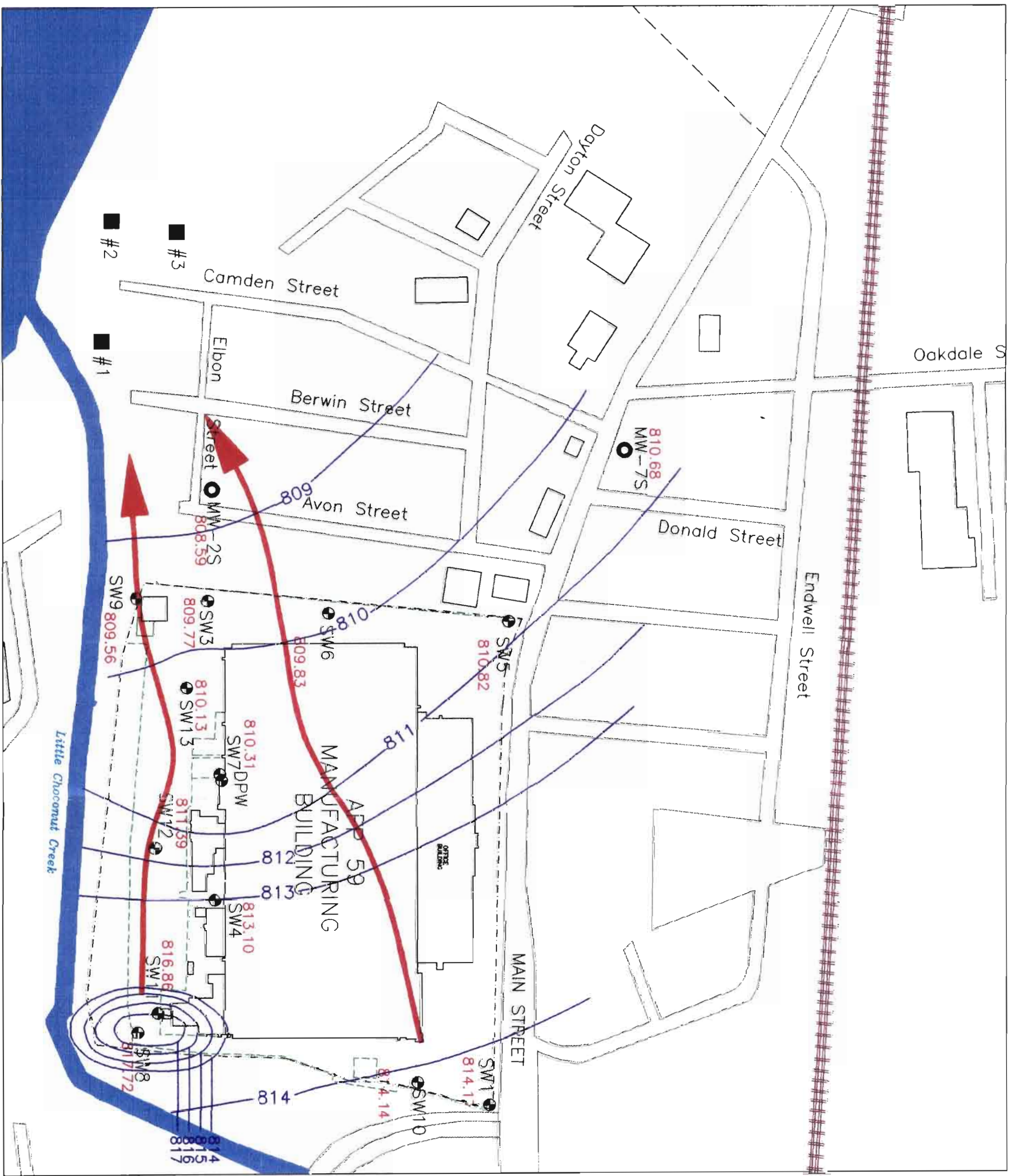
CONTOUR INTERVAL = 1 FT.



**FIGURE 3-15**  
**POTENTIOMETRIC SURFACE AND GROUNDWATER FLOW AT AFP 59 (DEEP WELLS) PRIOR TO PUMPING TEST**

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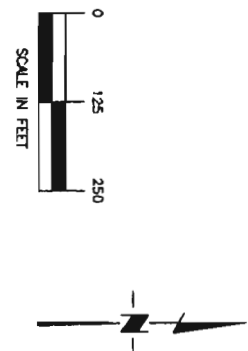





- LEGEND**
- SW4 AFP 59 MONITORING WELL
  - MW-3S NYSDEC MONITORING WELL
  - #2 JOHNSON CITY WATER SUPPLY WELL
  - 819.23 GROUNDWATER ELEVATION (FEET MSL)
  - 819.56 GROUNDWATER ELEVATION (FEET MSL)
  - GROUNDWATER FLOW DIRECTION
  - - - BASE BOUNDARY
  - - - FENCE

NOTE: GROUNDWATER ELEVATIONS WERE MEASURED ON DECEMBER 7, 1994, IMMEDIATELY PRIOR TO THE END OF THE PUMPING TEST.

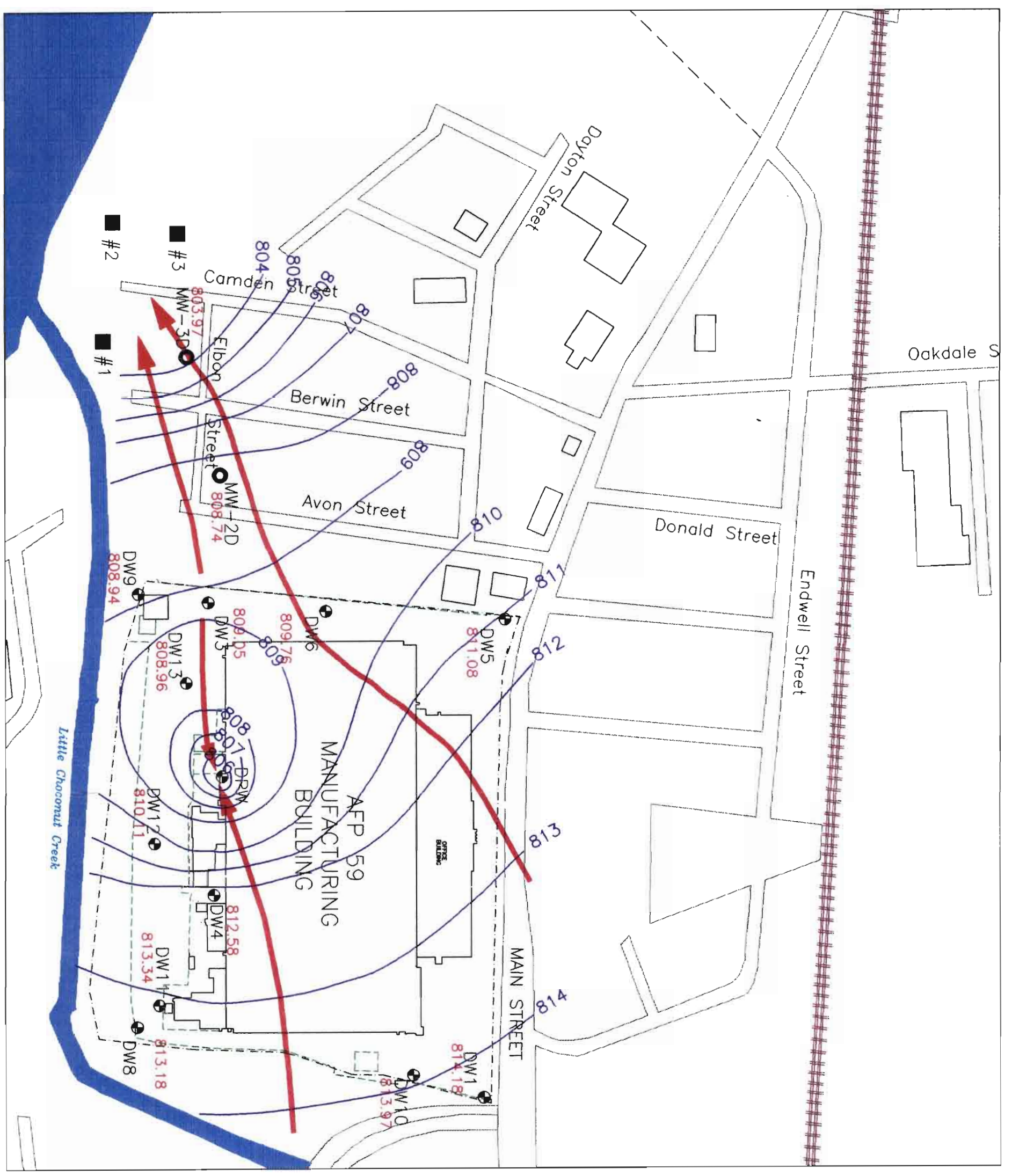
CONTOUR INTERVAL = 1 FT.



**B A R T H**  **T R E C H** **FIGURE 3-16**

POTENTIOMETRIC SURFACE AND GROUNDWATER FLOW (SHALLOW WELLS) IN THE VICINITY OF AFP 59 AT THE END OF THE PUMPING TEST

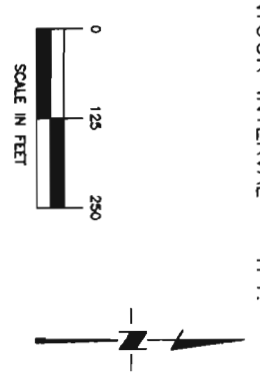
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- LEGEND**
- DW4 AFP 59 MONITORING WELL
  - MW-3D NYSDEC MONITORING WELL
  - #2 JOHNSON CITY WATER SUPPLY WELL
  - 819.23 GROUNDWATER ELEVATION (FEET MSL)
  - 819.23 GROUNDWATER ELEVATION CONTOUR (FEET MSL)
  - GROUNDWATER FLOW DIRECTION
  - - - BASE BOUNDARY
  - - - FENCE

NOTE: GROUNDWATER ELEVATIONS WERE MEASURED ON DECEMBER 7, 1994, IMMEDIATELY PRIOR TO THE END OF THE PUMPING TEST.

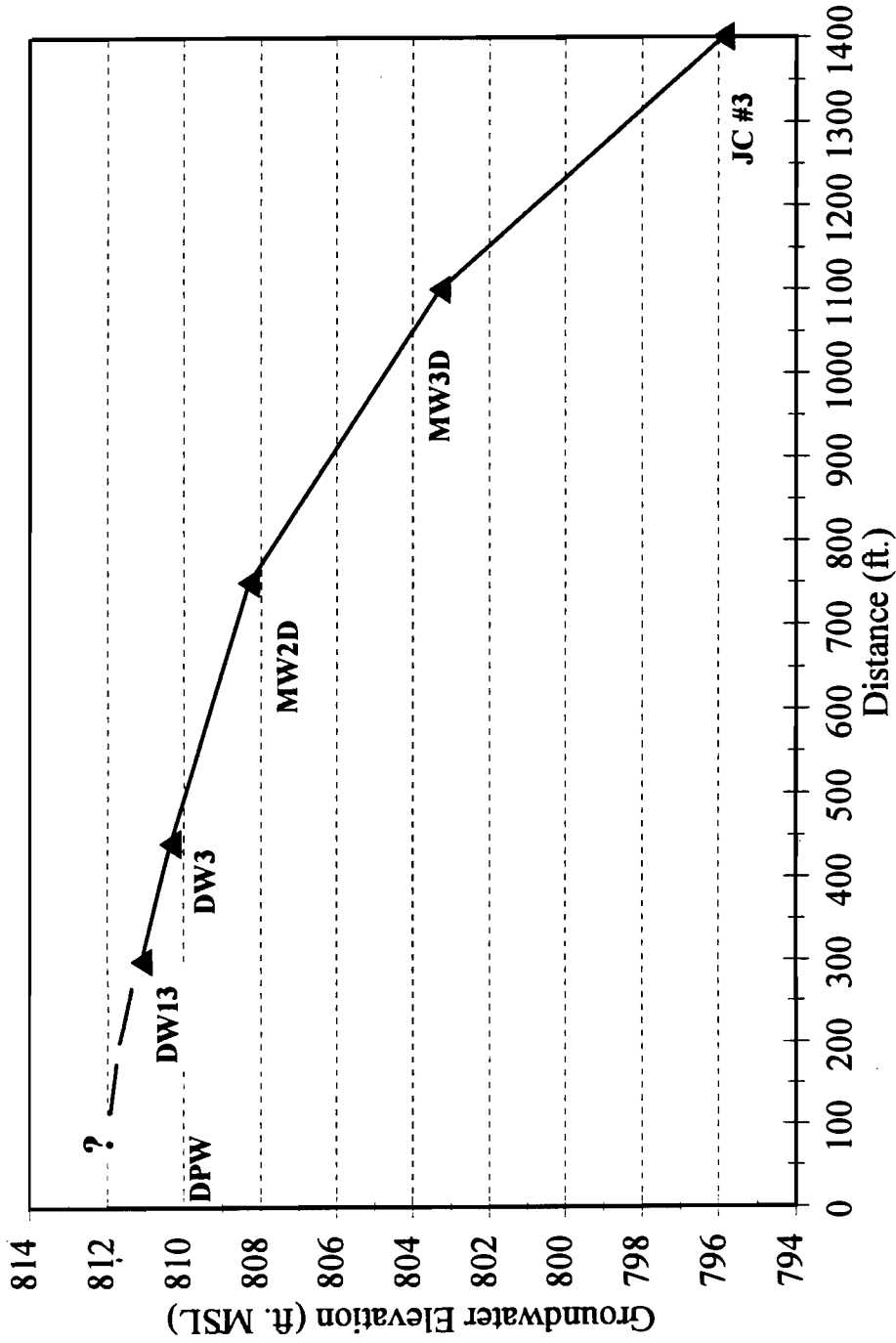
CONTOUR INTERVAL = 1FT.



**FIGURE 3-17**

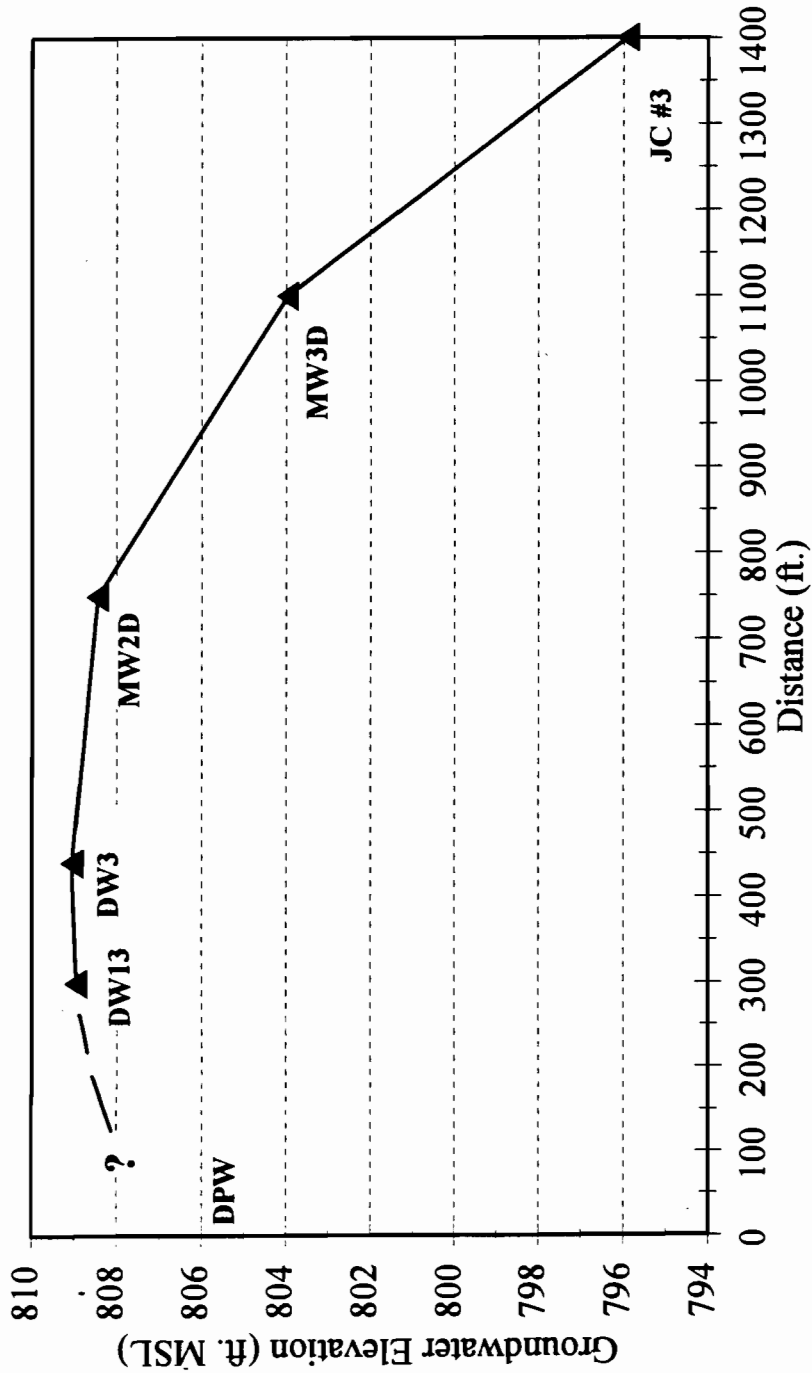
POTENTIOMETRIC SURFACE AND GROUNDWATER FLOW (DEEP WELLS) IN THE VICINITY OF AFP 59 AT THE END OF THE PUMPING TEST


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**Distance vs. Groundwater Elevation  
Prior to Pumping Test**

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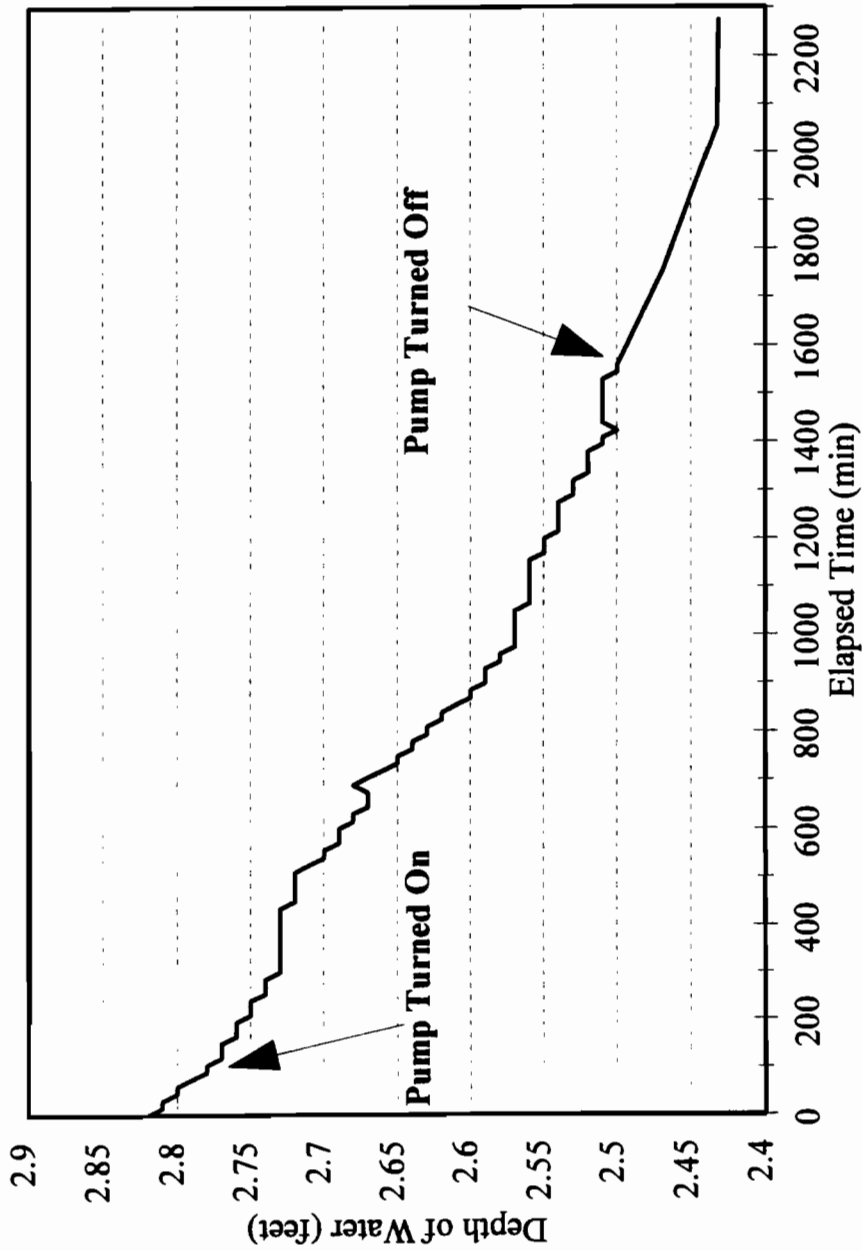


**EARTH T E C H**  **FIGURE 3-19**

**Distance vs. Groundwater Elevation  
at End of Pumping Test**

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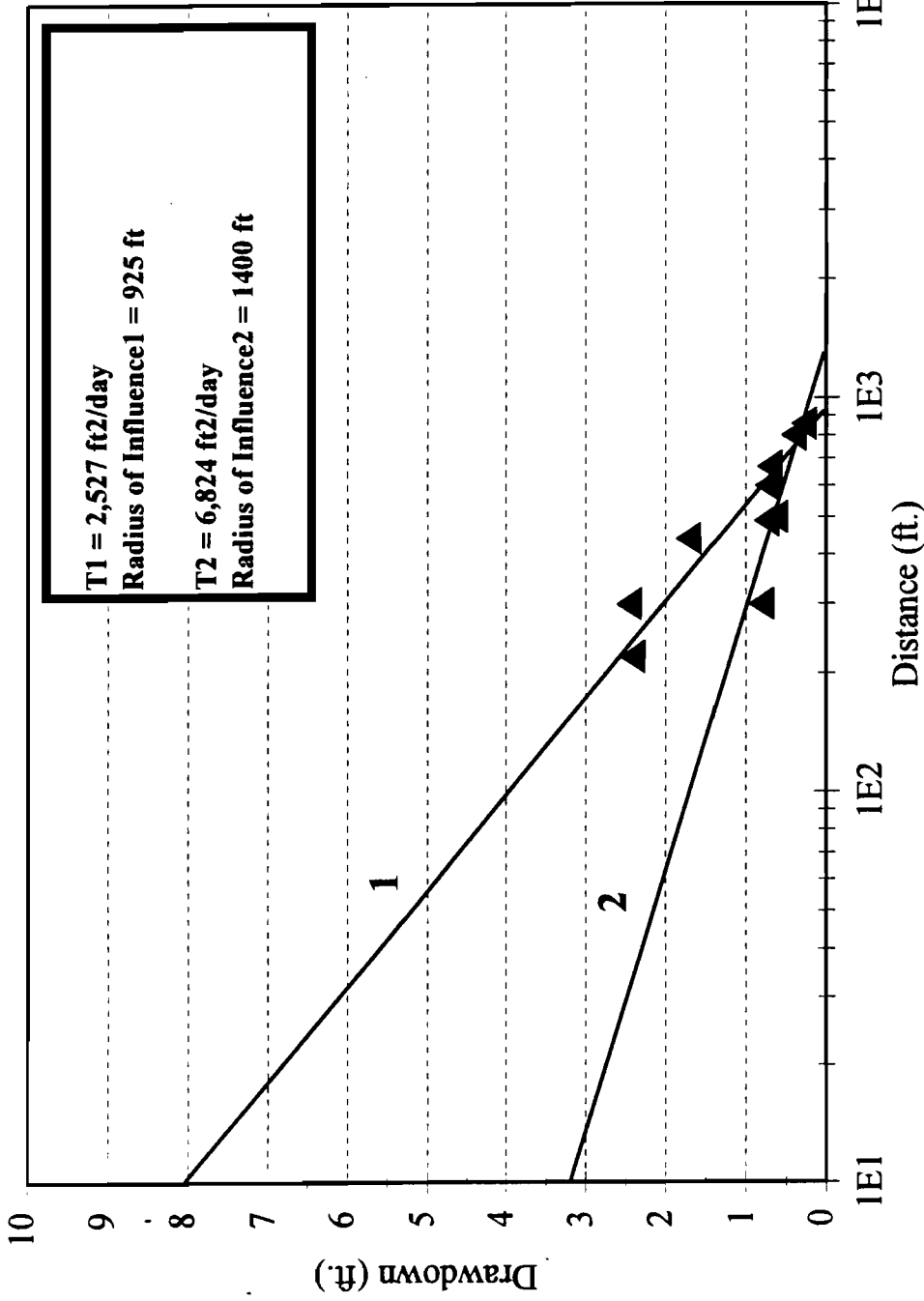




EARTH T E C H N I C S **FIGURE 3-20**

Depth of Water in  
Little Choconut Creek  
December 6-8, 1994

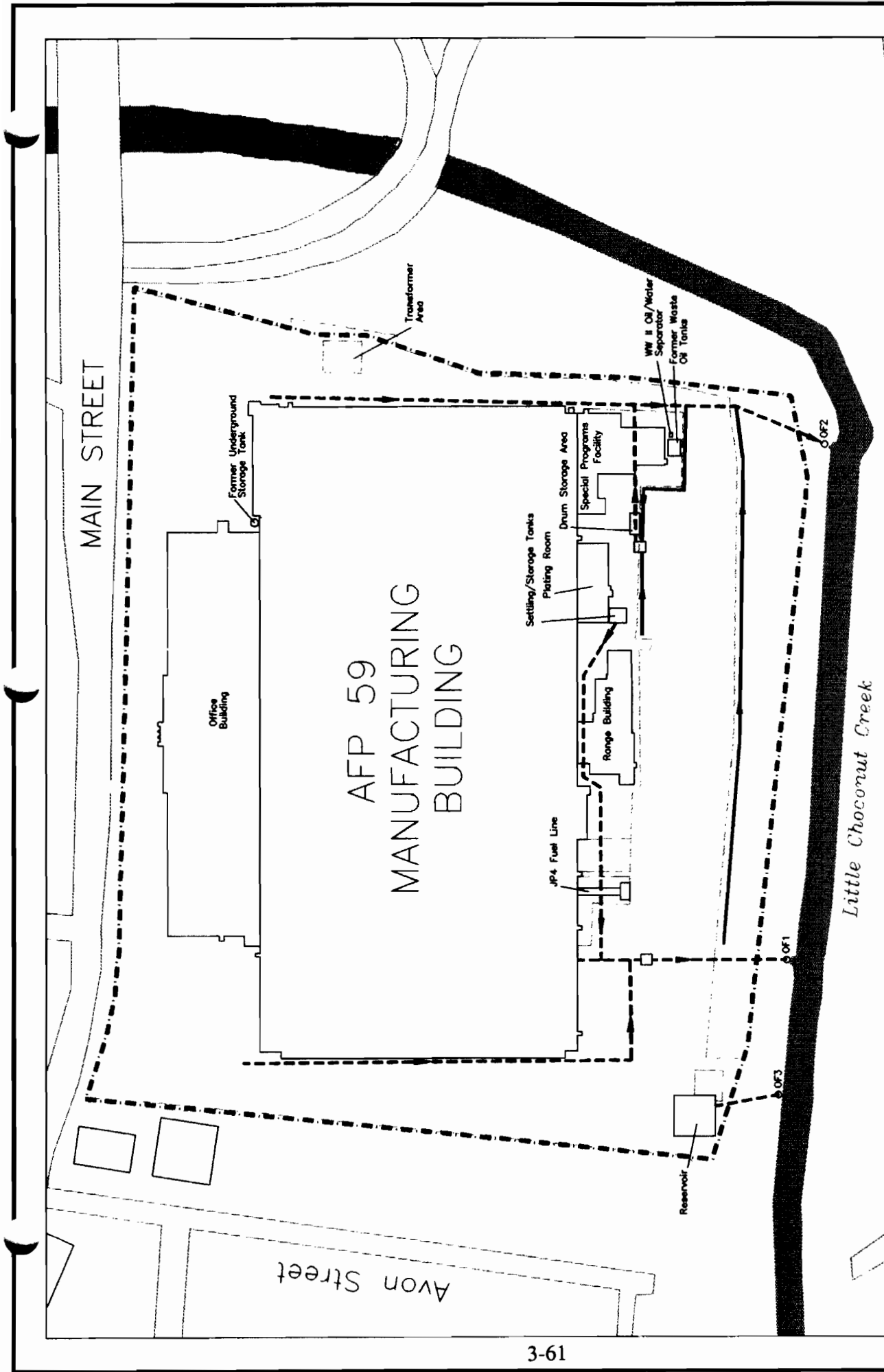
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EARTH T E C H N I C S **FIGURE 3-21**

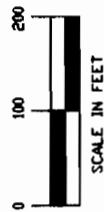
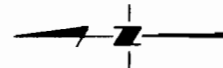
**Distance vs. Corrected Drawdown  
(Deep Wells)**

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**LEGEND**

- Storm Water Conduit
- Drainage Channel
- · - · - AFP 59 Property Boundary
- - - - - Fence



BARTH T O G H

**FIGURE 3-22**

**SURFACE RUNOFF AND STORM WATER DRAINAGE PATTERNS AT AFP 59**

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**TABLE 3-1**  
**SUMMARY OF PUMPING TEST ANALYSIS**

Well ID	T (FT <sup>2</sup> /DAY)	S	Saturated Thickness (FT)	K (FT/DAY)
DW3	1,675	0.0001424	20	83.74
DW4	18,043	0.0006257	48.5	372.02
DW5	12,311	0.001015	35	351.74
DW6	696	0.0006258	10	69.62
DW8	14,904	0.0007967	17.5	851.66
DW9	759	0.0001456	20	37.94
DW11	20,434	0.0001930	10	2043.36
DW12	3,423	0.00009497	49	69.85
DW13	1,116	0.0002471	10	111.59
SW10	27,000	0.01037	71	380.28
DW10	22,018	0.003469	71	310.11

Key: T = Transmissivity  
 S = Storativity  
 K = Hydraulic Conductivity

Note: Transmissivities and storativities were computed using the AQTESOLV program.

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**TABLE 3-2**  
**METEOROLOGICAL DATA FOR BINGHAMTON (1949-1989)**

<b>Month</b>	<b>Mean Temperature (°F)</b>	<b>Mean Precipitation (inches)</b>	<b>Mean Wind Speed (knots)</b>
January	22	2.4	11W
February	24	2.3	11W
March	32	2.8	11NW
April	45	3.2	10W
May	56	3.4	9S
June	65	3.6	9W
July	70	3.6	8W
August	68	3.4	7S
September	60	3.2	8S
October	49	2.8	9S
November	38	3.1	10S
December	27	2.8	10W
<b>Annual</b>	<b>46</b>	<b>36.7</b>	<b>9W</b>

Source: ISMCS, 1990.

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# SECTION 4.0

## RECEPTOR IDENTIFICATION

**C**urrent and future human receptors have been suggested for the identified complete migration pathways as part of the AFP 59 conceptual site model. Figure 4-1 presents a release, transport and exposure diagram summarizing sources, release mechanisms, migration pathways, exposure pathways, and potential receptors; complete pathways are identified. The potential receptors and exposure pathways are discussed below.

**Current Receptors.** Three potential onsite and offsite current human receptors have been identified: industrial workers (i.e., plant employees), recreational users of Little Choconut Creek, and offsite residents. For industrial workers, there are no complete pathways since AFP 59 is predominantly covered by the manufacturing building and parking lots. Therefore, ingestion and dermal absorption of chemicals from the soil, and inhalation of contaminated fugitive dust and VOCs migrating from soil to air, are not complete pathways. The groundwater pathway (ingestion) is also incomplete. Drinking water at the plant is from the Johnson City municipal supply; it is unknown whether contamination from AFP 59 has reached the Camden Street Wellfield. Although groundwater contamination has been detected at the Camden Street Wellfield, an air stripper is in place to reduce concentrations to levels below applicable standards. Additionally, contaminant concentrations in the groundwater at the wellfield have reportedly been below applicable standards recently.

Recreational users of Little Choconut Creek have also been identified as potential current receptors. Fishing and wading have been observed in the creek in the vicinity of AFP 59, and therefore dermal absorption of chemicals from surface water and ingestion of contaminated fish are considered complete exposure pathways for these receptors. Swimming, which might result in incidental ingestion of surface water, has not been considered since water levels in the creek are generally too shallow to allow swimming.

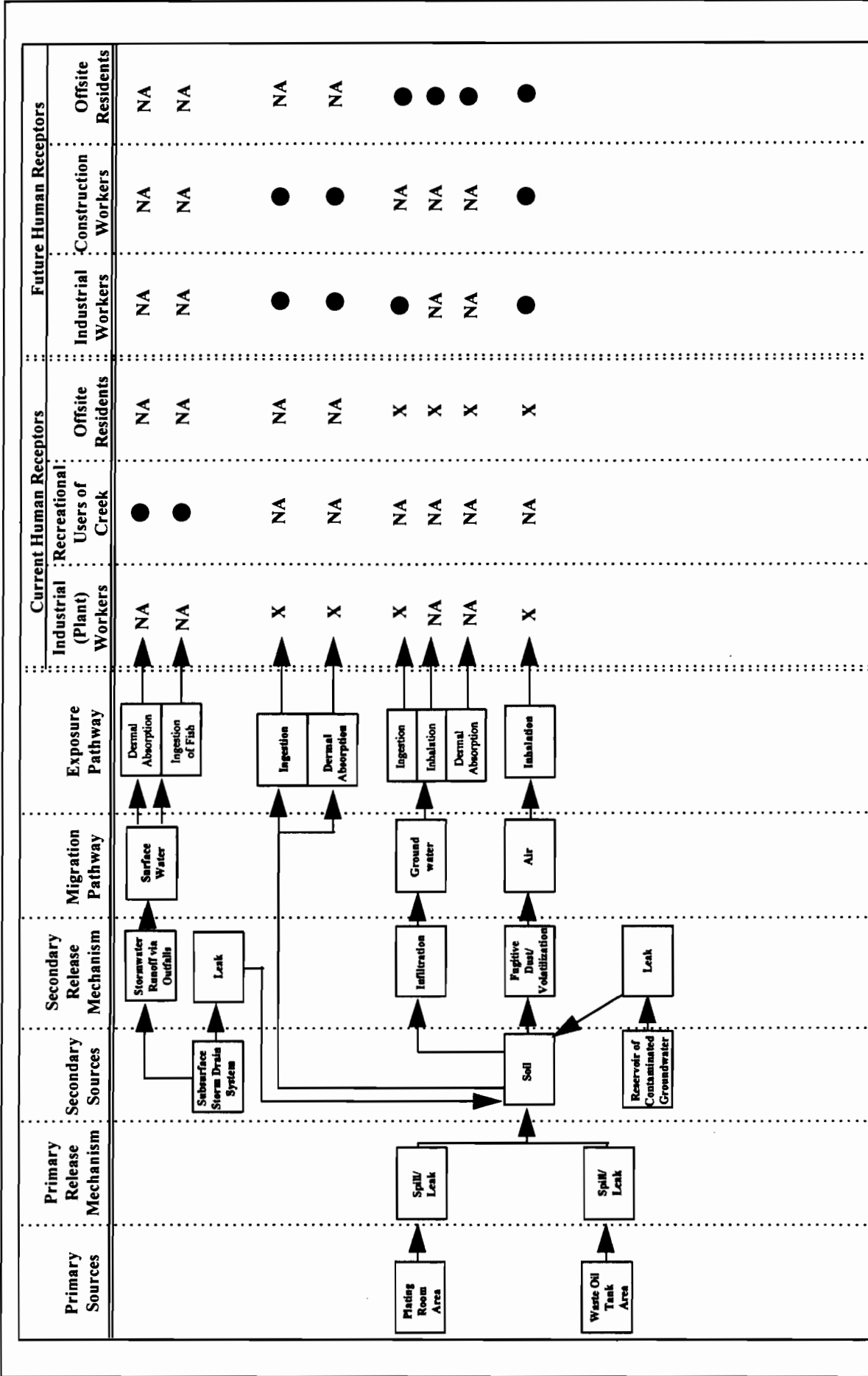
Finally, offsite residents in the vicinity of AFP 59 have been identified as potential current receptors. Ingestion of contaminated groundwater, inhalation of VOCs while showering, and dermal absorption of chemicals while showering, are potential exposure pathways. However, as stated above, it is unknown whether contaminants from AFP 59 have migrated to the Camden Street Wellfield. Additionally, groundwater from the Johnson City municipal supply currently meets applicable standards. Therefore, the groundwater exposure pathways are considered incomplete. Inhalation of contaminated fugitive dust and VOCs migrating from soil to air are also considered incomplete pathways since the plant is predominantly covered, with no exposed contaminated soil.

**Future Receptors.** Several assumptions exist for evaluating potential future receptors. First, it is assumed that the property will continue to be used as an industrial facility rather than for residential development. An agreement to transfer the property to Broome County has been approved. Furthermore, Martin Marietta intends to remain at the facility to continue similar types of industrial operations. Second, the potable water will continue to be supplied to the facility by Johnson City (i.e., the Camden Street Wellfield). No onsite drinking water wells are anticipated due to the plant's proximity to the existing wellfield and the status of the aquifer as a sole source aquifer. Since existing contaminated groundwater at AFP 59 could migrate to the Camden Street Wellfield, future concentrations of contaminants in groundwater at the wellfield can be modelled based on current concentrations at the plant. Finally, it is assumed that contaminated soil at the facility might be exposed in the future, both at the surface and subsurface (i.e., during excavation).

Three potential onsite and offsite future human receptors have been identified: industrial workers, onsite construction workers, and offsite residents. Exposure of future recreational users to contaminated surface water in Little Choconut Creek cannot be addressed since future concentrations of contaminants in the surface water are unknown. Assuming that contaminated surface soil could be exposed in the future, the soil ingestion and dermal absorption pathways are considered complete for future industrial workers. Additionally, inhalation of contaminated fugitive dust and VOCs migrating from soil to air are considered complete pathways. Ingestion of contaminated groundwater from the Camden Street Wellfield is also considered a complete exposure pathway for future industrial workers.

Future onsite construction workers could be exposed to subsurface soil (ingestion and dermal absorption of chemicals) during construction activities. Contact with groundwater during construction was not considered a complete pathway due to the depth to groundwater in the area and typical depths of excavation (0 to 12 feet bgs) during construction activities. Inhalation of contaminated fugitive dust and VOCs migrating from soil to air during construction activities are also complete pathways for future construction workers.

The potential for groundwater contamination from AFP 59 to reach the Camden Street Wellfield exists. Therefore, future offsite residents in the vicinity of the plant could be exposed to contaminated groundwater through ingestion, inhalation of VOCs while showering, and dermal absorption while showering. Additionally, offsite migration of contaminated fugitive dust and VOCs in air could occur if the surface soil is exposed in the future. Therefore offsite residents could be impacted by these exposure pathways.



**Explanation:**  
 ● Complete Pathway  
 X Incomplete Pathway  
 NA Not Applicable

.....**FIGURE 4-1**  
 AFP 59  
 Release, Transport, and Exposure  
 Diagram

#FIGURE 4-1

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# **A P P E N D I X A**

## **REFERENCES**

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# A P P E N D I X A

## REFERENCES

- Argonne National Laboratory (ANL), January 1994. *Supplemental Site Inspection for Air Force Plant 59, Johnson City, New York, Volumes 1 through 3.*
- CH2M Hill, October 1984. *Installation Restoration Program Records Search for Air Force Plant 59, Johnson City, New York.* Prepared for Air Force Engineering and Services Center and Air Force Systems Command.
- EARTH TECH, August 1994. *Installation Restoration Program - Reconnaissance Survey Summary Report.*
- Fred C. Hart Associates, Inc., March 1988. *Installation Restoration Program Phase II - Confirmation/Quantification Stage 1 Final Report.* Prepared for USAFOEHL.
- International Station Meteorological Climate Summary (ISMCS)*, October 1990. Version 1.0, CD Rom. National Climatic Data Center, USAFETAC OL-A, and the Naval Oceanography Command Detachment Ashville, North Carolina.
- New York State Department of Environmental Conservation (NYSDEC), 1977. *The Clinton Street-Ballpark Aquifer in Binghamton and Johnson City, New York, Bulletin 73.* Prepared by United States Department of the Interior Geological Survey.
- PRC Environmental Management Inc., 17 June 1993. *Cost of Compliance Study for 1990 Clean Air Act Amendments for Air Force Plant 59.*
- Title 40, Code of Federal Regulations (CFR), 1991 Revision, Part 81, *Designation of Areas for Air Quality Planning Purposes.*
- United States Air Force (USAF) Environmental Restoration Program, December 1993. *Management Action Plan (MAP) Air Force Plant 59, Johnson City, New York.*
- United States Geological Survey (USGS), 1986. *Aquifer Model of the Susquehanna River Valley in Southwestern Broome County, New York, Water Resources Investigations Report 85-4099.* Prepared in Cooperation with the Susquehanna River Basin Commission, Albany, New York.
- URS Consultants, Inc., May 1992. *Contaminant Source Investigation Johnson City Wellfield, Final Report.* Prepared for NYSDEC.



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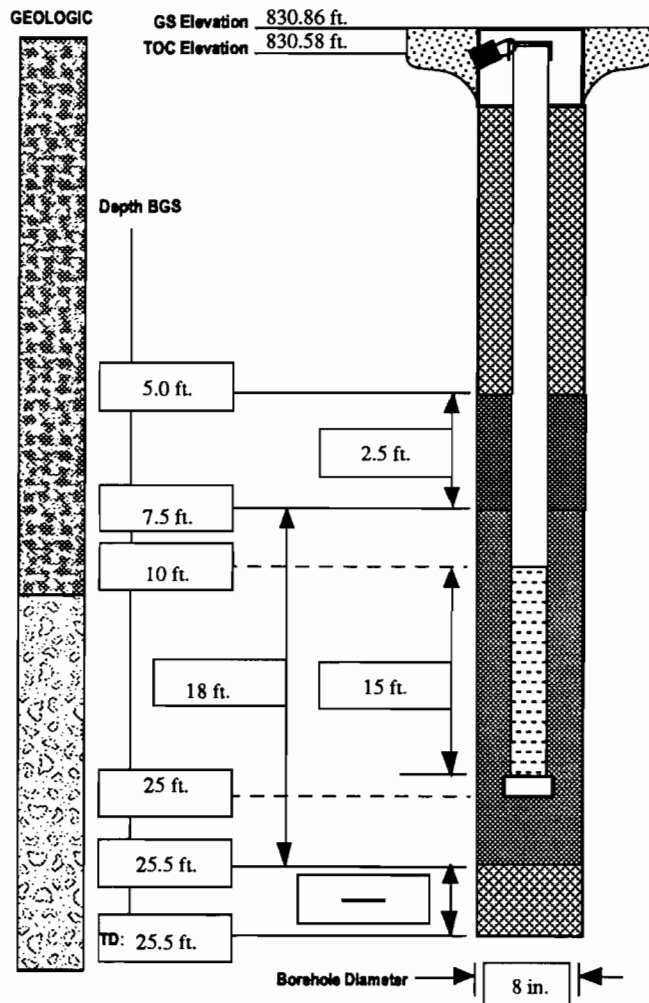
# **A P P E N D I X B**

## **MONITORING WELL CONSTRUCTION AND BOREHOLE LOGS**

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Project Name: AFP59 RI	Project Number: 949033	Sheet 1 of 1
Well: SW10	Borehole Diameter (in.): 8	Depth of Water (TOC): 16.31 ft.
Driller: Doug Richmond	Date Started: 10/23/94	TOC Elevation: 830.58 ft. MSL
Drilling Agency: Parratt Wolff Inc.	Date Installed: 10/23/94	Number of Soil Samples: 3
Drilling Equipment: Mobile B57	Date Completed: 10/24/94	Logged by: D. Parse
Drilling Method: HSA	Total Depth (ft.): 25.5	Checked by: R. Zapletal

-  Fine-Grained Alluvium
-  Glacial Outwash Deposits



**FLUSH MOUNT CASING** Weep Hole: (Y) (N)

Material/Type: 9 in. diameter, steel cylindrical valve box  
 Depth BGS: 1 in. above, 7 in. bgs.

**GUARD POSTS**

No. ---- Type ----

**SURFACE PADS**

Composition & Size: Concrete; 3 ft. diameter, 4 in. deep

**SURFACE CASING**

Material/Type: ----  
 Depth BGS: ----

**RISER PIPE** Ventilated Cap: (Y) (N)

Type: 2 in. diameter, Sch. 40 PVC  
 Total Length (TOC to TOS): 10 ft.

**GROUT**

Composition & Proportions: 8 gal. water, 94 lbs. Allentown Cement Co. Portland cement, 4 lbs. Bighorn bentonite powder  
 Interval BGS: 1.0 - 5.0 ft.

**CENTRALIZERS**

Depths: None

**SEAL**

Type: 100 lbs. Enviroplug bentonite medium chips  
 Source: Wyo-Ben, Inc.  
 Setup/Hydration Time: 1 hour  
 Vol. Fluid Added: 10 gal.

**FILTER PACK**

Type: #0 Silica  
 Amt. Used: 900 lbs.  
 Source: The Morie Co., Inc.  
 Gr. Size Dist.: on file

**SCREEN**

Type: Diedrich slotted  
 Slot Size and Type: 2 in. diameter, 10 slot Sch. 40 PVC  
 Interval BGS: 10 ft. - 25 ft.





**WELL FOOT** (Y) (N)

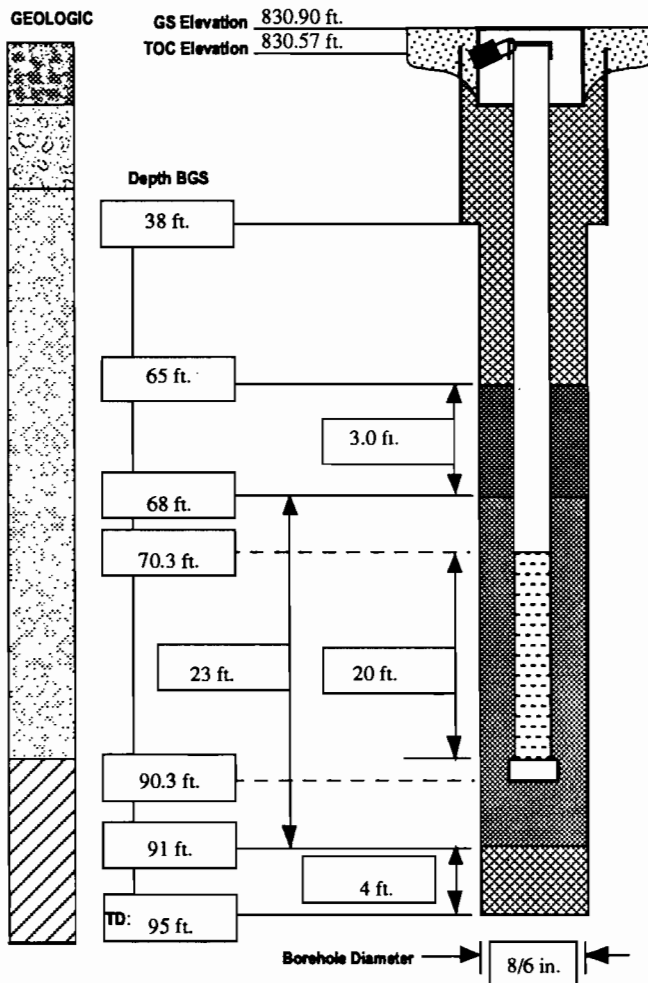
Interval BGS: 25 ft. - 25.5 ft.  
 Length: 0.5 ft.  
 Bottom Cap: (Y) (N)

**BACKFILL PLUG**

Material: None  
 Setup/Hydration Time: ----

Project Name: AFP59 RI	Project Number: 949033	Sheet 1 of 1
Well: DW10	Borehole Diameter (in.) 8/6	Depth of Water (TOC): 16.38 ft.
Driller: Bill Rice	Date Started: 10/17/94	TOC Elevation: 830.57 ft. MSL
Drilling Agency: Parratt Wolff Inc.	Date Installed: 10/21/94	Number of Soil Samples: 18
Drilling Equipment: CME-75	Date Completed: 10/24/94	Logged By: D. Parse
Drilling Method: HSA/Drive & Wash	Total Depth (ft.): 95	Checked by: R. Zapletal

-  Fine-Grained Alluvium
-  Glacial Outwash Deposits
-  Ice-Contact Deposits
-  Glacial Till



**FLUSH MOUNT CASING** Weep Hole: (Y) (N)

Material/Type: 9 inch. diameter, steel cylindrical valve box  
 Depth BGS: 1 in. above, 7 in. bgs.

**GUARD POSTS**

No. ---- Type ----

**SURFACE PAD**

Composition & Size: Concrete: 3 ft. diameter, 4 in. deep

**SURFACE CASING**

Material/Type: ----  
 Depth BGS: ----

**RISER PIPE** Ventilated Cap: (Y) (N)

Type: 2 in. diameter, Sch. 40 PVC  
 Total Length (TOC to TOS): 70.3 ft.

**GROUT**

Composition & Proportions: 130 gal. water, 1974 lbs. Allentown Cement Co. Portland cement, 105 lbs. Bighorn bentonite powder  
 Interval BGS: 1.0 - 65 ft.

**CENTRALIZERS**

Depths: 90 ft., 80 ft.

**SEAL**

Type: 75 lbs. Enviroplug medium bentonite chips  
 Source: Wyo-Ben, Inc.  
 Setup/Hydration Time: 1 hour  
 Vol. Fluid Added: 15 gallons

**FILTER PACK**

Type: #0 Silica  
 Amt. Used: 400 lbs.  
 Source: The Morie Co., Inc.  
 Gr. Size Dist.: on file

**SCREEN**

Type: Diedrich slotted  
 Slot Size and Type: 2 in. diameter, 10 slot Sch. 40 PVC  
 Interval BGS: 70.3 ft. - 90.3 ft.




**WELL FOOT** (Y) (N)

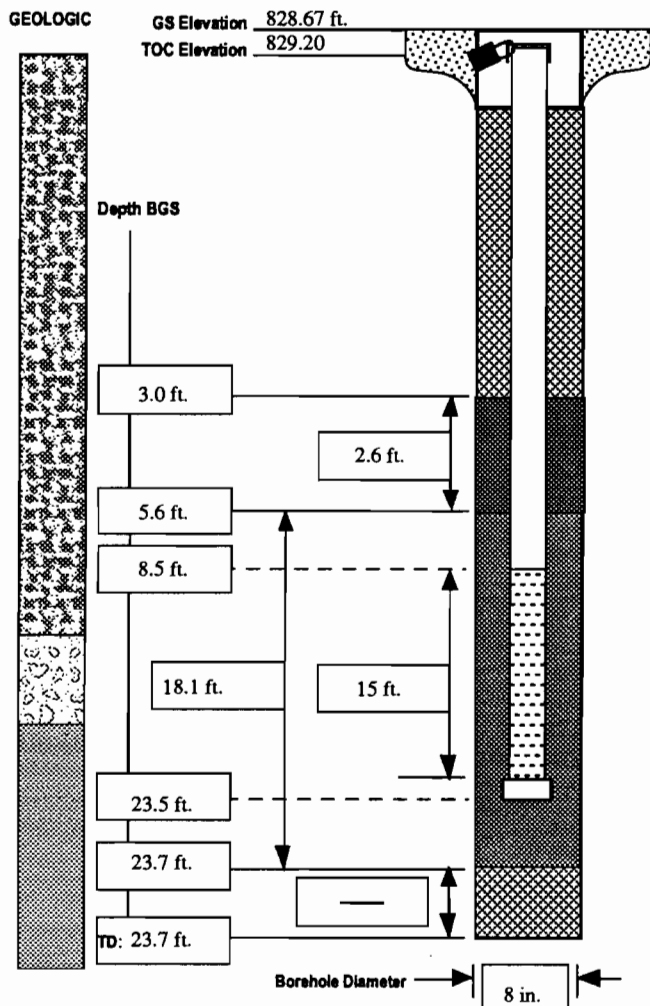
Interval BGS: 90.3 ft. - 91 ft.  
 Length: 0.7 ft.  
 Bottom Cap: (Y) (N)

**BACKFILL PLUG**

Material: Enviroplug bentonite chips  
 Setup/Hydration Time: ----

Project Name: AFP59 RI	Project Number: 949033	Sheet 1 of 1
Well: SW11	Borehole Diameter (in.): 8	Depth of Water (TOC): 12.25 ft.
Driller: Bill Rice/Jim Lansing	Date Started: 11/09/94	TOC Elevation: 829.20 ft. MSL
Drilling Agency: Parratt Wolff Inc.	Date Installed: 11/14/94	Number of Soil Samples: 4
Drilling Equipment: CME 75	Date Completed: 11/15/94	Logged by: D. Parse
Drilling Method: HSA	Total Depth (ft.): 23.7	Checked by: R. Zapletal

-  Fine-Grained Alluvium
-  Glacial Outwash Deposits
-  Fine-Grained Glacial Deposits



**FLUSH MOUNT CASING** Weep Hole: (Y) (N)

Material/Type: 9 inch. diameter steel cylindrical valve box  
 Depth BGS: 1 in. above, 7 in. bgs.

**GUARD POSTS**

No. ---- Type ----

**SURFACE PADS**

Composition & Size: Concrete, 3 ft. diameter, 4 in. deep

**SURFACE CASING**

Material/Type: ----  
 Depth BGS: ----

**RISER PIPE** Ventilated Cap: (Y) (N)

Type: 2 in. diameter, Sch. 40 PVC  
 Total Length (TOC to TOS): 8.5 ft.

**GROUT**

Composition & Proportions: 40 lbs. Allentown Cement Co. Portland cement, 4 gal. water  
 Interval BGS: 0.5 ft. - 3.0 ft.

**CENTRALIZERS**

Depths: None

**SEAL**

Type: 62.5 lbs. Enviroplug medium bentonite chips  
 Source: Wyo-Ben, Inc.  
 Setup/Hydration Time: 1 hour  
 Vol. Fluid Added: 6.5 gallons

**FILTER PACK**

Type: #00 Silica  
 Amt. Used: 800 lbs.  
 Source: The Morie Co., Inc.  
 Gr. Size Dist: on file

**SCREEN**

Type: Diedrich slotted  
 Slot Size and Type: 2 in. diameter, 10 slot Sch. 40 PVC  
 Interval BGS: 8.5 ft. - 23.5 ft.

**WELL FOOT** (Y) (N)

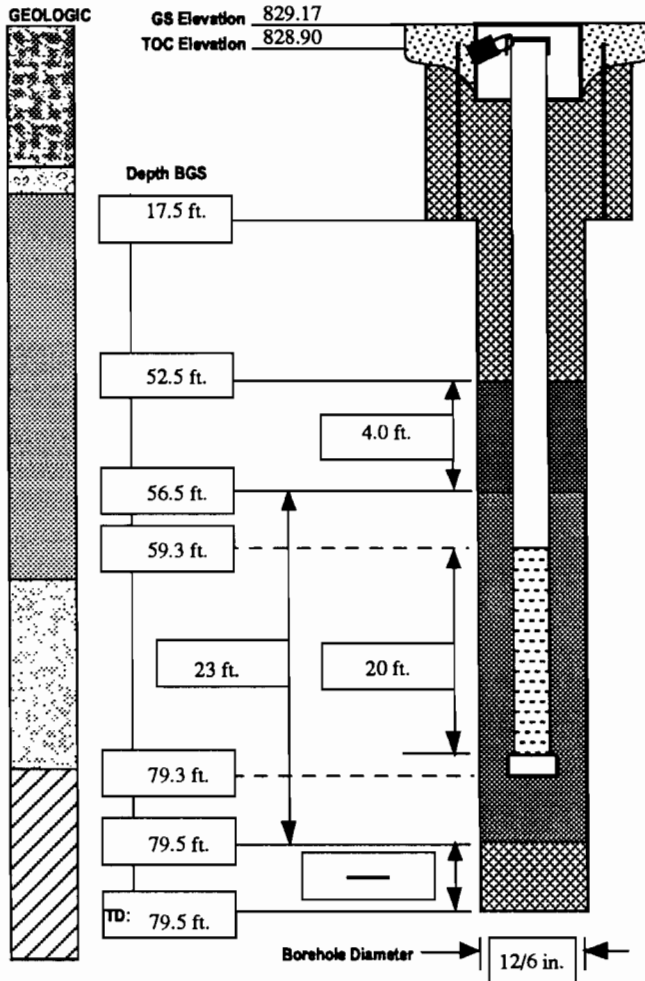
Interval BGS: 23.5 ft. - 23.7 ft.  
 Length: 0.2 ft.  
 Bottom Cap: (Y) (N)

**BACKFILL PLUG**

Material: None  
 Setup/Hydration Time: ----

Project Name: AFP59 RI	Project Number: 949033	Sheet 1 of 1
Well: DW11	Borehole Diameter (in.) 12/6	Depth of Water (TOC): 17.31 ft.
Driller: Bill Rice/Jim Lansing	Date Started: 10/23/94	TOC Elevation: 828.90 ft. MSL
Drilling Agency: Parratt Wolff Inc.	Date Installed: 11/7/94	Number of Soil Samples: 31
Drilling Equipment: CME-75	Date Completed: 11/15/94	Logged By: D. Parse
Drilling Method: HSA/Drive & Wash	Total Depth (ft.): 79.5	Checked by: R. Zapletal

-  Fine-Grained Alluvium
-  Glacial Outwash Deposits
-  Fine-Grained Glacial Deposits
-  Ice-Contact Deposits
-  Glacial Till



**FLUSH MOUNT CASING** Weep Hole: (Y) (N)

Material/Type: 9 inch. diameter, steel cylindrical valve box  
 Depth BGS: 1 in. above, 7 in. bgs.

**GUARD POSTS**

No. ---- Type ----

**SURFACE PAD**

Composition & Size: Concrete; 3 ft. diameter, 4 in. deep

**SURFACE CASING**

Material/Type: 8 in. diameter, Sch. 80 PVC  
 Depth BGS: 17.5 ft.

**RISER PIPE** Ventilated Cap: (Y) (N)

Type: 2 in. diameter, Sch. 40 PVC  
 Total Length (TOC to TOS): 59.3 ft.

**GROUT**

Composition & Proportions: 50 gal. water, 600 lbs. Allentown Cement Co. Portland cement, 30 lbs. Bighorn bentonite powder  
 Interval BGS: 1.0 - 52.5 ft.

**CENTRALIZERS**

Depths: 79 ft., 69 ft.

**SEAL** Tremled: (Y) (N)

Type: 10 lbs. Bighorn bentonite powder slurry  
 Source: Wyo-Ben, Inc.  
 Setup/Hydration Time: 1 hour  
 Vol. Fluid Added: 10 gallons

**FILTER PACK**

Type: #0 Silica  
 Amt. Used: 500 lbs.  
 Source: The Morie Co., Inc.  
 Gr. Size Dist: on file

**SCREEN**

Type: Diedrich slotted  
 Slot Size and Type: 2 in. diameter, 10 slot Sch. 40 PVC  
 Interval BGS: 59.3 ft. - 79.3 ft.

**WELL FOOT** (Y) (N)



Interval BGS: 79.3 ft. - 79.5 ft.  
 Length: 0.2 ft.  
 Bottom Cap: (Y) (N)

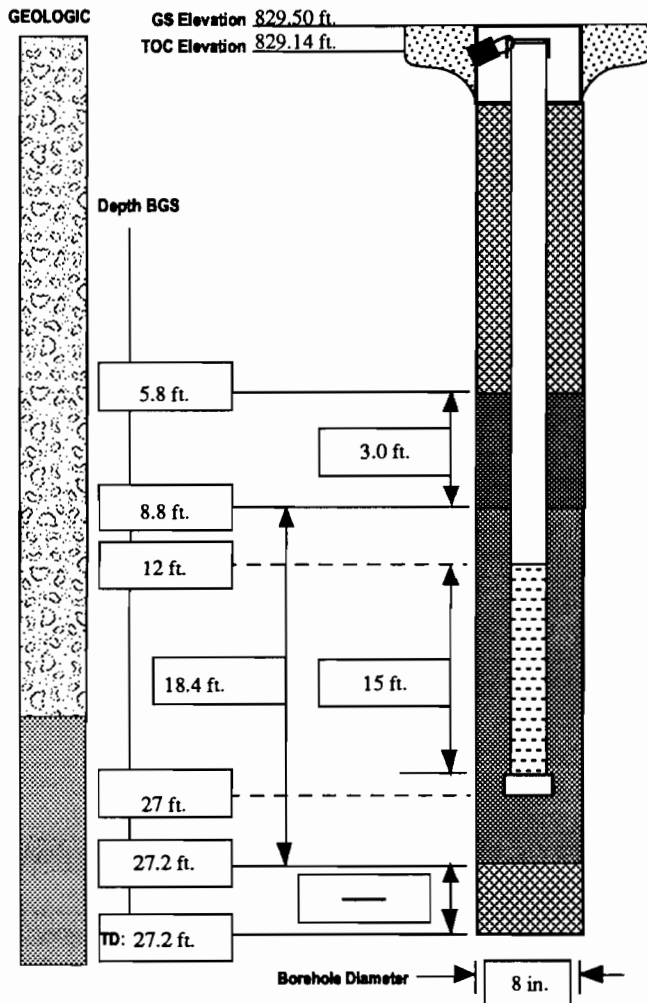
**BACKFILL PLUG**

Material: None  
 Setup/Hydration Time: ----



Project Name: AFP59 RI	Project Number: 949033	Sheet 1 of 1
Well: SW12	Borehole Diameter (in.): 8	Depth of Water (TOC): 17.50 ft.
Driller: Bill Rice/Jim Lansing	Date Started: 11/16/94	TOC Elevation: 829.14 ft. MSL
Drilling Agency: Parratt Wolff Inc.	Date Installed: 11/16/94	Number of Soil Samples: 5
Drilling Equipment: CME 75	Date Completed: 11/17/94	Logged by: D. Parse
Drilling Method: HSA	Total Depth (ft.): 27.2	Checked by: R. Zapletal

-  Glacial Outwash Deposits
-  Fine-Grained Glacial Deposits



**FLUSH MOUNT CASING** Weep Hole: (Y) (N)

Material/Type: 9 inch. diameter, steel cylindrical valve box  
 Depth BGS: 1 in. above, 7 in. bgs.

**GUARD POSTS**

No. ---- Type ----

**SURFACE PADS**

Composition & Size: Concrete; 3 ft. diameter, 4 in. deep

**SURFACE CASING**

Material/Type: ----  
 Depth BGS: ----

**RISER PIPE** Ventilated Cap: (Y) (N)

Type: 2 in. diameter, Sch. 40 PVC  
 Total Length (TOC to TOS): 12.0 ft.

**GROUT**

Composition & Proportions: 6 gal. water, 94 lbs. Allentown Cement Co. Portland cement, 5 lbs. Bighorn bentonite powder  
 Interval BGS: 1.0 ft. - 5.8 ft.

**CENTRALIZERS**

Depths: None

**SEAL**

Type: 100 lbs. Enviroplug medium bentonite chips  
 Source: Wyo-Ben, Inc.  
 Setup/Hydration Time: 12 hour  
 Vol. Fluid Added: 10 gallons

**FILTER PACK**

Type: #00 Silica  
 Amt. Used: 775 lbs.  
 Source: The Morie Co., Inc.  
 Gr. Size Dist: on file

**SCREEN**

Type: Diederich slotted  
 Slot Size and Type: 2 in. diameter, 10 slot Sch. 40 PVC  
 Interval BGS: 12 ft - 27 ft.





**WELL FOOT** (Y) (N)

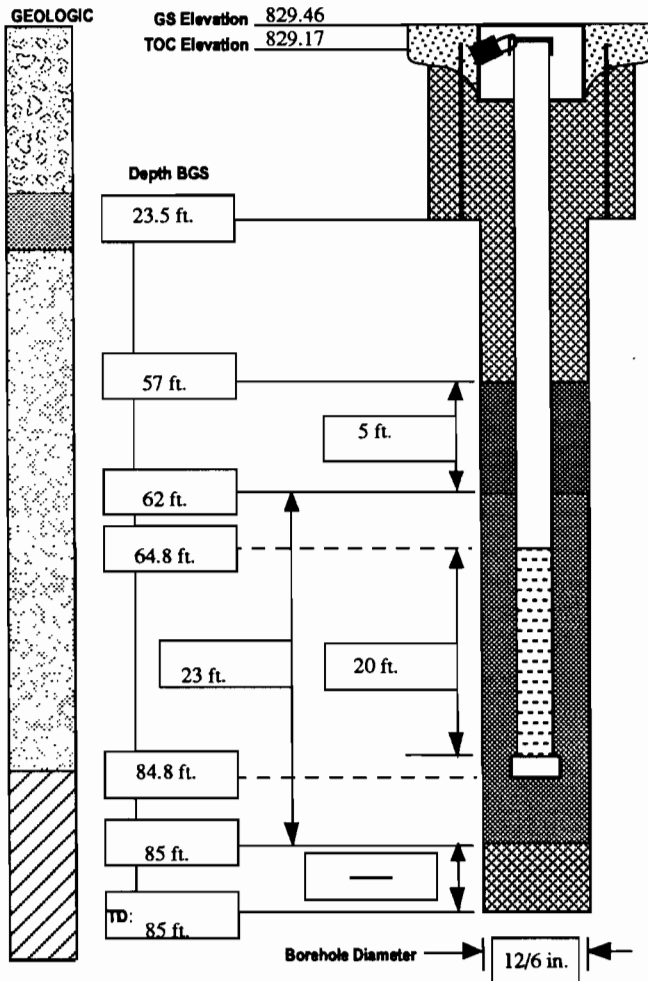
Interval BGS: 27 ft - 27.2 ft.  
 Length: 0.2 ft.  
 Bottom Cap: (Y) (N)

**BACKFILL PLUG**

Material: None  
 Setup/Hydration Time: ----

Project Name: AFP59 RI	Project Number: 949033	Sheet 1 of 1
Well: DW12	Borehole Diameter (in.) 12/6	Depth of Water (TOC): 16.79 ft.
Driller: Bill Rice/Jim Lansing	Date Started: 10/22/94	TOC Elevation: 829.17 ft. MSL
Drilling Agency: Parratt Wolff, Inc.	Date Installed: 11/3/94 & 11/4/94	Number of Soil Samples: 21
Drilling Equipment: CME 75	Date Completed: 11/17/94	Logged By: D. Parse
Drilling Method: HSA/Drive & Wash	Total Depth (ft.): 85	Checked by: R. Zapletal

-  Glacial Outwash Deposits
-  Fine-Grained Glacial Deposits
-  Ice-Contact Deposits
-  Glacial Till



**FLUSH MOUNT CASING** Weep Hole: (Y) (N)

Material/Type: 9 inch. diameter, steel cylindrical valve box  
 Depth BGS: 7 in. bgs.

**GUARD POSTS**

No. ---- Type ----

**SURFACE PAD**

Composition & Size: Concrete; 3 ft. diameter, 4 in. deep

**SURFACE CASING**

Material/Type: 8 in. diameter, Sch. 80 PVC  
 Depth BGS: 23.5 ft.

**RISER PIPE** Ventilated Cap: (Y) (N)

Type: 2 in. diameter, Sch. 40 PVC  
 Total Length (TOC to TOS): 64.8 ft.

**GROUT**

Composition & Proportions: 50 gal. water, 600 lbs. Allentown Cement Co. Portland Cement, 30 lbs. Bighorn bentonite powder  
 Interval BGS: 1.0 - 57 ft.

**CENTRALIZERS**

Depths: 84 ft., 74 ft.

**SEAL**

Type: 50 lbs. Enviroplug medium bentonite chips (57-60 ft.) & bentonite slurry (60-62 ft.)  
 Source: Wyo-Ben, Inc.  
 Setup/Hydration Time: 1 hour  
 Vol. Fluid Added: 6 gal. for slurry

**FILTER PACK**

Type: #0 Silica  
 Amt. Used: 450 lbs.  
 Source: The Morie Co., Inc.  
 Gr. Size Dist: on file

**SCREEN**

Type: Diedrich slotted  
 Slot Size and Type: 2 in. diameter, 10 slot, Sch. 40 PVC  
 Interval BGS: 64.8 ft. - 84.8 ft.

**WELL FOOT** (Y) (N)

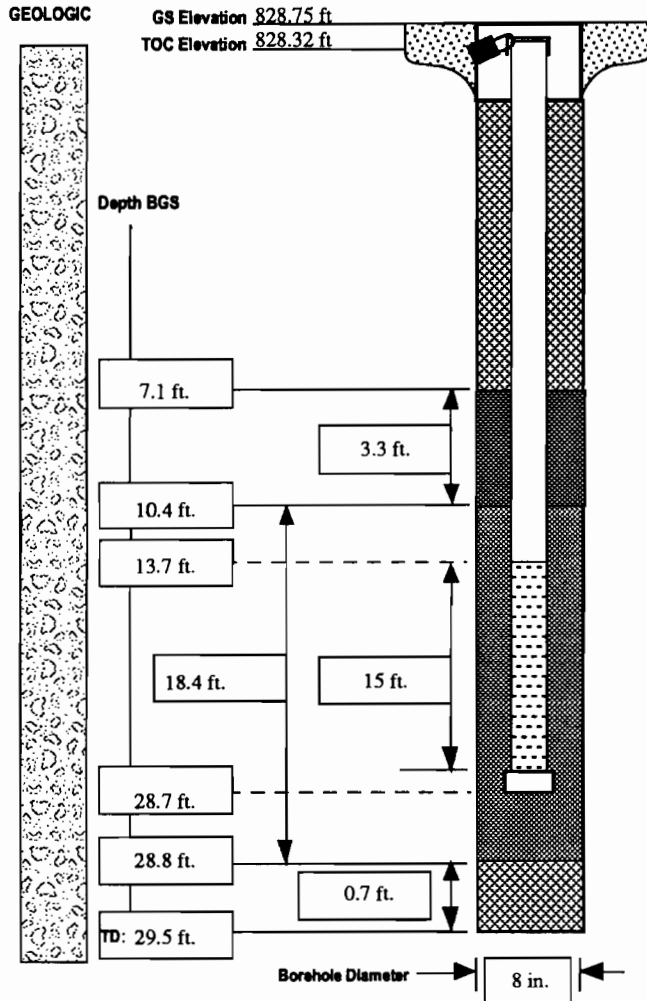
Interval BGS: 84.8 ft. - 85.0 ft.  
 Length: 0.2 ft.  
 Bottom Cap: (Y) (N)

**BACKFILL PLUG**

Material: None  
 Setup/Hydration Time: ----

Project Name: AFP59 RI	Project Number: 949033	Sheet 1 of 1
Well: SW13	Borehole Diameter (in.): 8	Depth of Water (TOC): 18.06 ft.
Driller: Bill Rice/Jim Lansing	Date Started: 11/14/94	TOC Elevation: 828.32 ft. MSL
Drilling Agency: Parratt Wolff Inc.	Date Installed: 11/14/94 & 11/15/94	Number of Soil Samples: 4
Drilling Equipment: CME 75	Date Completed: 11/16/94	Logged by: D. Parse
Drilling Method: HSA	Total Depth (ft.): 29.5	Checked by: R. Zapletal

 Glacial Outwash Deposits



**FLUSH MOUNT CASING** Weep Hole: (Y) (N)

Material/Type: 9 inch. diameter, steel cylindrical valve box  
 Depth BGS: 1 in. above, 7 in. bgs.

**GUARD POSTS**

No. ---- Type ----

**SURFACE PADS**

Composition & Size: Concrete; 3 ft. diameter, 4 in. deep

**SURFACE CASING**

Material/Type: ----  
 Depth BGS: ----

**RISER PIPE** Ventilated Cap: (Y) (N)

Type: 2 in. diameter, Sch. 40 PVC  
 Total Length (TOC to TOS): 13.7 ft.

**GROUT**

Composition & Proportions: 36 gal. water, 600 lbs. Allentown Cement Co. Portland cement, 30 lbs. bentonite

Interval BGS: 1 ft. - 7.1 ft.

**CENTRALIZERS**

Depths: None

**SEAL**

Type: 62.5 lbs. Enviroplug medium bentonite chips  
 Source: Wyo-Ben, Inc.  
 Setup/Hydration Time: 1 hour  
 Vol. Fluid Added: 15 gallons

**FILTER PACK**

Type: #0 Silica  
 Amt. Used: 675 lbs.  
 Source: The Morie Co., Inc.  
 Gr. Size Dist: on file

**SCREEN**

Type: Diedrich slotted  
 Slot Size and Type: 2 in. diameter, 10 slot Sch. 40 PVC  
 Interval BGS: 13.7 ft - 28.7 ft.



**WELL FOOT** (Y) (N)

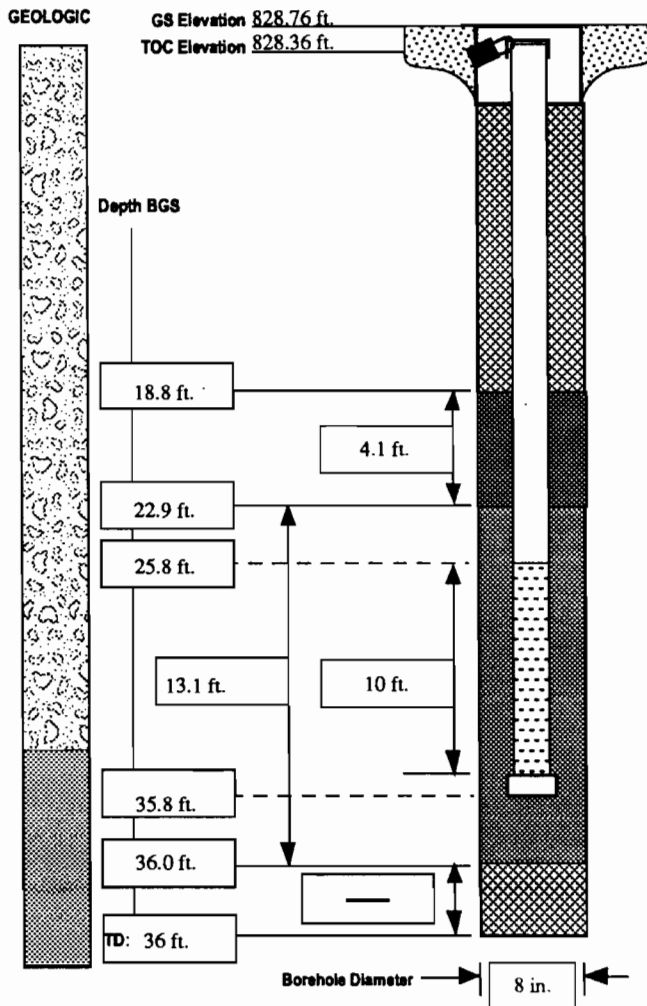
Interval BGS: 28.7 ft - 28.8 ft.  
 Length: 0.1 ft.  
 Bottom Cap: (Y) (N)

**BACKFILL PLUG**

Material: Formation Sands  
 Setup/Hydration Time: ----

Project Name: AFP59 RI	Project Number: 949033	Sheet 1 of 1
Well: IW13	Borehole Diameter (in.): 8	Depth of Water (TOC): 16.12 ft.
Driller: Bill Rice	Date Started: 11/8/94	TOC Elevation: 828.36 ft. MSL
Drilling Agency: Parratt Wolff Inc.	Date Installed: 11/8/94	Number of Soil Samples: 0
Drilling Equipment: CME 75	Date Completed: 11/17/94	Logged by: D. Parse
Drilling Method: HSA	Total Depth (ft.): 36	Checked by: R. Zapletal

-  Glacial Outwash Deposits
-  Fine-Grained Glacial Deposits



**FLUSH MOUNT CASING** Weep Hole: (Y) (N)

Material/Type: 9 inch. diameter, steel cylindrical valve box  
 Depth BGS: 1 in. above, 7 in. bgs.

**GUARD POSTS**

No. ---- Type ----

**SURFACE PADS**

Composition & Size: Concrete; 3 ft. diameter, 4 in. deep

**SURFACE CASING**

Material/Type: ----  
 Depth BGS: ----

**RISER PIPE** Ventilated Cap: (Y) (N)

Type: 2 in. diameter, Sch. 40 PVC  
 Total Length (TOC to TGS): 25.8 ft.

**GROUT**

Composition & Proportions: 100 gal. water, 1410 lbs. Allentown Cement Co. Portland cement, 100 lbs. Bighorn bentonite powder  
 Interval BGS: 0.5 ft. - 18.8 ft.

**CENTRALIZERS**

Depths: None

**SEAL**

Type: 50 lbs. Enviroplug medium bentonite chips  
 Source: Wyo-Ben, Inc.  
 Setup/Hydration Time: 12 hour  
 Vol. Fluid Added: 0 gal.

**FILTER PACK**

Type: #0 Silica  
 Amt. Used: 450 lbs.  
 Source: The Morie Co., Inc.  
 Gr. Size Dist: on file

**SCREEN**

Type: Diedrich slotted  
 Slot Size and Type: 2 in. diameter, 10 slot Sch. 40 PVC  
 Interval BGS: 25.8 ft. - 35.8 ft.





**WELL FOOT** (Y) (N)

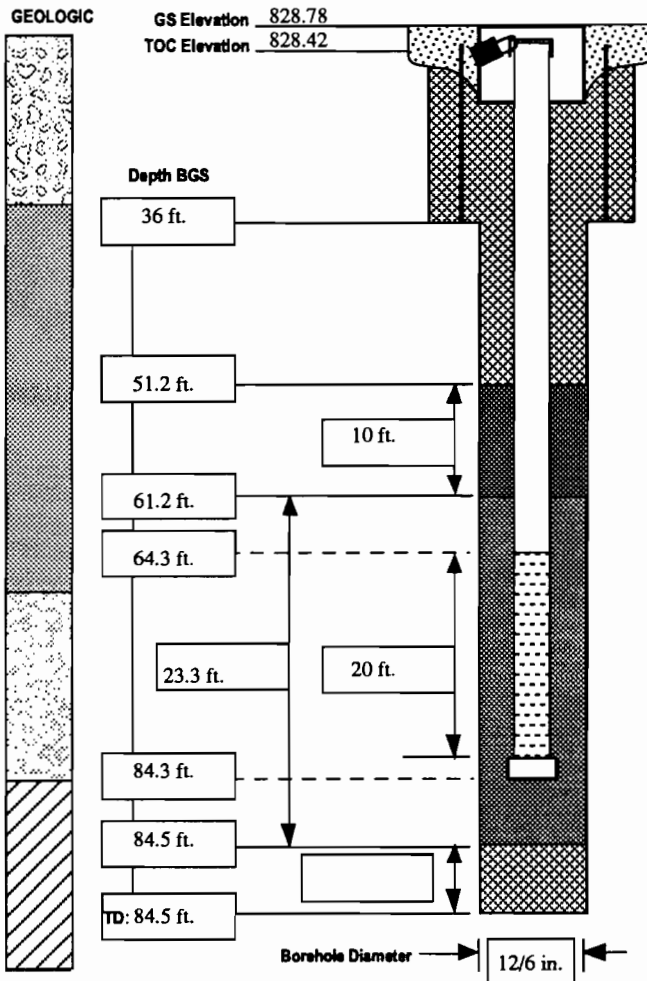
Interval BGS: 35.8 ft. - 36.0 ft.  
 Length: 0.2 ft.  
 Bottom Cap: (Y) (N)

**BACKFILL PLUG**

Material: None  
 Setup/Hydration Time: ----

Project Name: AFP59 RI	Project Number: 949033	Sheet 1 of 1
Well: DW13	Borehole Diameter (in.) 12/6	Depth of Water (TOC): 17.31 ft.
Driller: Bill Rice/Jim Lansing	Date Started: 10/26/94	TOC Elevation: 828.42 ft. MSL
Drilling Agency: Parratt Wolff Inc.	Date Installed: 10/31/94	Number of Soil Samples: 33
Drilling Equipment: CME 75	Date Completed: 11/17/94	Logged By: D. Parse
Drilling Method: HSA/Drive & Wash	Total Depth (ft.): 84.5	Checked by: R. Zapletal

-  Glacial Outwash Deposits
-  Fine-Grained Glacial Deposits
-  Ice-Contact Deposits
-  Glacial Till



**FLUSH MOUNT CASING** Weep Hole: (Y) (N)

Material/Type: 9 inch. diameter, steel cylindrical valve box  
 Depth BGS: 1 in. above, 7 in. bgs.

**GUARD POSTS**

No. ---- Type ----

**SURFACE PAD**

Composition & Size: Concrete, 3 ft. diameter, 4 in. deep

**SURFACE CASING**

Material/Type: 8 in. diameter, Sch. 80 PVC  
 Depth BGS: 36 ft.

**RISER PIPE** Ventilated Cap: (Y) (N)

Type: 2 in. diameter, Sch. 40 PVC  
 Total Length (TOC to TOS): 64.3 ft.

**GROUT**

Composition & Proportions: 40 gal. water, 600 lbs. Allentown Cement Co. Portland cement, 30 lbs. Bighorn bentonite powder  
 Interval BGS: 0.5 ft. - 51.2 ft.

**CENTRALIZERS**

Depths: 74 ft., 84 ft.

**SEAL** Tremied: (Y) (N)

Type: 12.5 lbs. Bighorn bentonite powder slurry  
 Source: Wyo-Ben, Inc.  
 Setup/Hydration Time: 30 min.  
 Vol. Fluid Added: 10 gallons

**FILTER PACK**

Type: #0 Silica  
 Amt. Used: 500 lbs.  
 Source: The Morie Co., Inc.  
 Gr. Size Dist.: on file

**SCREEN**

Type: Diedrich slotted  
 Slot Size and Type: 2 in. diameter, 10 slot Sch. 40 PVC  
 Interval BGS: 64.3 ft. - 84.3 ft.

**WELL FOOT** (Y) (N)

Interval BGS: 84.3 ft. - 84.5 ft.  
 Length: 0.2 ft.  
 Bottom Cap: (Y) (N)

**BACKFILL PLUG**

Material: None  
 Setup/Hydration Time: ----

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# BOREHOLE LOG

Project Name: AFP 59		
Project Number: 949033-08	Borehole Number: 59BH01	Sheet 1 of 1
Borehole Location: West of Settling/Storage Tanks	Elevation: 829.30	Datum: 770504.7652 (N); 665697.0473 (E)
Drilling Company: Par. Wolff	Driller: D. Richmond	Date Started: 10/18/94
Drilling Equipment: Mobile B57	Date Finished: 10/18/94	
Drilling Method: 6 1/4" HSA	Total Depth (feet): 17	Ambient HNu: 0 ppm
Drilling Fluid: None	Borehole Diameter: 8"	Completed: NA
Completion Information: Grouted to Surface	Depth to Water (feet) First: 15	Logged By: Robert Zapletal
		Checked By: David Parse

Depth (feet)	Description	USCS or Rock Type	FID/PID (ppm) Spoon/Headspace	Samples			Drilling Rate/Time	Remarks
				Number	Recovered Length (inches)	Blow Count		
3	3" asphalt. Silty gravel. Gravel subrounded to subangular, loose, <25-50 mm. Damp.	GM	0/0	1	20	32 29 12 13	1251	Split-spoon at 1 foot. 59BH01S01 (1-3 feet) to lab.
5	SAB.  Medium to fine sand with gravel at 7 feet.	GM  SW	0/0	2	12	18 13 11 10	1302	Split-spoon at 5 feet. 59BH01S02 (5-7 feet) to lab. Auger cuttings bringing up cobbles (3 inch diameter).
10	Silty sand with coarse gravel.	SM	0/0	3	6	11 12 7 9	1314	Split-spoon at 10 feet. 59BH01S03 (10-12 feet) collected but not sent to lab.
15	Clayey gravel with little sand. Loose. Soft. Gravel 20-50 mm, subrounded. Wet.	GC	0/0	4	9		1340	Split-spoon at 15 feet. 59BH01S04 (15-17 feet).  TD drilled = 15 feet. TD sampled = 17 feet.
17	----- TD = 17 feet							
20								

# BOREHOLE LOG

<b>Project Name:</b> AFP 59		
<b>Project Number:</b> 949033-08	<b>Borehole Number:</b> 59BH02	<b>Sheet</b> 1 of 1
<b>Borehole Location:</b> South of Settling/Storage Tanks	<b>Elevation:</b> 829.03	<b>Datum:</b> 770479.5469 (N); 665729.3585 (E)
<b>Drilling Company:</b> Par. Wolff	<b>Driller:</b> D. Richmond	<b>Date Started:</b> 10/18/94
<b>Drilling Equipment:</b> Mobile B57	<b>Total Depth (feet):</b> 12	
<b>Drilling Method:</b> 6 1/4" HSA	<b>Borehole Diameter:</b> 8"	<b>Ambient HNu:</b> 0 ppm
<b>Drilling Fluid:</b> None	<b>Depth to Water (feet) First:</b> 12	<b>Completed:</b> NA
<b>Completion Information:</b> Grouted to Surface	<b>Logged By:</b> Robert Zapletal	<b>Checked By:</b> David Parse

Depth (feet)	Description	USCS or Rock Type	FID/PID (ppm) Spoon/Headspace	Samples			Drilling Rate/Time	Remarks
				Number	Recovered Length (inches)	Blow Count		
3	3" asphalt. Gravelly, sandy silt. Loose. 20% gravel, 10% clay. Damp.	ML	0/0	1	18	24 27 18 12	1520	Split-spoon at 1 foot. 59BH02S01 (1-3 feet) to lab.
5	Grayish-brown, gravelly silt with little fine sand. Moist.	ML	0/0	2	20	15 10 5 5	1536	Split-spoon at 5 feet. 59BH02S02 (5-7 feet) to lab.  Cobbles from auger cuttings ~ 3 inches.
10	Silty gravel with little fine sand. Subrounded gravel, 20% silt. Wet at 12 feet with higher clay content.	GM	0/0	3	19	14 18 13 9	1555	Split-spoon at 10 feet. 59BH02S03 (10-12 feet) to lab.  TD drilled = 10 feet. TD sampled = 12 feet.
	TD = 12 feet							
15								
20								



# BOREHOLE LOG

<b>Project Name:</b> AFP 59			
<b>Project Number:</b> 949033-08	<b>Borehole Number:</b> 59BH03	<b>Sheet 1 of 1</b>	
<b>Borehole Location:</b> 10 feet east of settling/storage tanks		<b>Elevation:</b> 829.43	<b>Datum:</b> 770497.4862 (N); 665767.5283 (E)
<b>Drilling Company:</b> Par. Wolff	<b>Driller:</b> D. Richmond	<b>Date Started:</b> 10/18/94	<b>Date Finished:</b> 10/19/94
<b>Drilling Equipment:</b> Mobile B57		<b>Total Depth (feet):</b> 12	
<b>Drilling Method:</b> 6 1/4" HSA		<b>Borehole Diameter:</b> 8"	<b>Ambient HNu:</b> 0 ppm
<b>Drilling Fluid:</b> None		<b>Depth to Water (feet) First:</b> 12	<b>Completed:</b> NA
<b>Completion Information:</b> Grouted to Surface		<b>Logged By:</b> Robert Zapletal	<b>Checked By:</b> David Parse

Depth (feet)	Description	USCS or Rock Type	FID/PID (ppm) Spoon/Headspace	Samples			Drilling Rate/Time	Remarks
				Number	Recovered Length (inches)	Blow Count		
3	3" asphalt. Silty gravel: 50% gravel, 30% silt, 20% fine sand. Loose. Slightly moist.	GM	0/0	1	15	34 20 18 11	1735	Split-spoon at 1 foot. Sample 59BH03S01 (1-3 feet) to lab.  Cobbles in cuttings.
5	Silty/sandy gravel: 60% medium to coarse, subrounded to subangular gravel, 20% silt, 20% fine sand. Loose. Slightly moist.	GM	0/0	2	18	55 19 19 15	1750  1755	Split-spoon at 5 feet. Sample 59BH03S02 (5-7 feet) to lab.  Finished drilling on 11/18/94.
10	Brown, sandy/silty gravel: 70% gravel, 20% fine sand, 10% silt. Gravel 10 to 40 mm. Loose. Wet at 12 feet.	GP/ GM	0/0	3	20	11 16 11 11	0710 0720	Resume drilling on 11/19/94. Split-spoon at 10 feet. Sample 59BH03S03 (10-12 feet) to lab. Collected on 10/19/94.
	TD = 12 feet							TD drilled = 10 feet. TD sampled = 12 feet.
15								
20								

# BOREHOLE LOG

Project Name: AFP 59		
Project Number: 949033-08	Borehole Number: 59BH04	Sheet 1 of 1
Borehole Location: Outside SE corner of plating room	Elevation: 829.32	Datum: 770501.5455 (N); 665828.7821 (E)
Drilling Company: Par. Wolff	Driller: D. Richmond	Date Started: 10/19/94
		Date Finished: 10/19/94
Drilling Equipment: Mobile Drill B57	Total Depth (feet): 17	
Drilling Method: 6 1/4" HSA	Borehole Diameter: 8"	Ambient HNu: 0 ppm
Drilling Fluid: None	Depth to Water (feet) First: 15	Completed: NA
Completion Information: Grouted to Surface	Logged By: Robert Zapletal	Checked By: David Parse

Depth (feet)	Description	USCS or Rock Type	FID/PID (ppm) Spoon/Headspace	Samples			Drilling Rate/Time	Remarks
				Number	Recovered Length (inches)	Blow Count		
3	3" asphalt.							
4	Gravelly clay. Gravel <15 mm. Loose. Stiff. Slightly moist.	CL	0/0	1	18	9 9 13 13	0810	Split-spoon at 3 feet. Sample 59BH04S01 (3-5 feet) to lab.
5	Light brown silty clay. 10 to 15% silt. Soft. Plastic. Moist.	CL	0/0	2	24	9 8 9 11	0820	Split-spoon at 5 feet. Sample 59BH04S02 and replicate 59BH04S09 (5-7 feet) to lab.
10	Sandy silt with clay. Moist. Light brown sandy/silty clay from 10.5-11 feet: 20% sand, 20% silt. Soft. Medium plasticity. Moist.	ML CL	0/0	3	18	9 8 14 16	0900	Split-spoon to 10 feet. Sample 59BH04S03 (10-12 feet) to lab for MS/MSD.
11	Sandy silt with clay 11-12 feet.	ML						
15	Gravelly sand with trace silt. Fine to coarse sand. Gravel <60 mm.	SW	0/0	4	12	9 10 8 10	0917	Split-spoon at 15 feet. Sample 59BH04S04 (15-17 feet) to lab.
	----- TD = 17 feet							TD drilled = 15 feet. TD sampled = 17 feet.
20								

# BOREHOLE LOG

Project Name: AFP 59		
Project Number: 949033-08	Borehole Number: 59BH05	Sheet 1 of 1
Borehole Location: 5 Feet West of AST	Elevation: 829.01	Datum: 770417.2292 (N); 665920.0549 (E)
Drilling Company: Par. Wolff	Driller: D. Richmond	Date Started: 10/19/94
		Date Finished: 10/19/94
Drilling Equipment: Mobile B57	Total Depth (feet): 17	
Drilling Method: 6 1/4" HSA	Borehole Diameter: 8"	Ambient HNu: 0 ppm
Drilling Fluid: None	Depth to Water (feet) First: 15	Completed: NA
Completion Information: Grouted to Surface	Logged By: Robert Zapletal	Checked By: David Parse

Depth (feet)	Description	USCS or Rock Type	FID/PID (ppm) Spoon/Headspace	Samples			Drilling Rate/Time	Remarks
				Number	Recovered Length (inches)	Blow Count		
3	3" asphalt.							
5	Grayish-brown, sandy/gravelly silt and silty/gravelly sand. Medium dense. Gravel 10 to 60 mm.	ML/SM	0/0	1	18	12 36 24 29	1130	Split-spoon at 3 feet. Sample 59BH05S01 (3-5 feet) to lab.
7	Dark gray clay with reddish-orange mottling. Little silt. Medium stiff. Trace organics. Moist.	CL	0/0	2	24	5 5 8 9	1153	Split-spoon at 7 feet. Sample 59BH05S02 (5-7 feet) to lab.
10	Dark gray, silty clay with yellow-orange mottling. Trace fine gravel. Stiff. Slightly plastic. Moist.	CL	0/0	3	22	5 8 14 21	1209	Split-spoon at 10 feet. Sample 59BH05S03 (10-12 feet) to lab.
15	Gray, sandy gravel. Wet.	GW	6/6	4	6	10 7 9 9	1230	Split-spoon at 15 feet. Sample 59BH05S04 (15-17 feet) to lab. Solvent odor. HNu in breathing zone = 2 ppm; down borehole = 15 ppm.
	TD = 17 feet							TD drilled = 15 feet. TD sampled = 17 feet.
20								

# BOREHOLE LOG

Project Name: AFP 59		
Project Number: 949033-08	Borehole Number: 59BH06	Sheet 1 of 1
Borehole Location: 5 feet north of NW corner of reservoir	Elevation: 829.31	Datum: 770443.6279 (N); 664942.4135 (E)
Drilling Company: Par. Wolff	Driller: D. Richmond	Date Started: 10/19/94
Drilling Equipment: Mobile B57	Date Finished: 10/19/94	
Drilling Method: 6 1/4" HSA	Total Depth (feet): 10	Ambient HNu: 0 ppm
Drilling Fluid: None	Borehole Diameter: 8"	Completed: NA
Completion Information: Grouted to Surface	Depth to Water (feet) First: 8	Logged By: Robert Zapletal
	Checked By: David Parse	

Depth (feet)	Description	USCS or Rock Type	FID/PID (ppm) Spoon/Headspace	Samples			Drilling Rate/Time	Remarks
				Number	Recovered Length (inches)	Blow Count		
1	3" asphalt. Mixed clay, silt and sand fill.	AF	0/0	1	18	14 18 14 9	1440	Split-spoon at 1 foot. Sample 59BH06S01 (1-3 feet) to lab.
5	Silty/gravelly, fine to coarse sand. Very moist.	SW	0/0	2	12	10 9 28 49	1450	Split-spoon at 5 feet. Sample 59BH06S02 (5-7 feet) to lab.  Heavy rain made it difficult to determine soil moisture content. Auger cuttings indicate soil saturated at 8 feet.
10	TD = 10 feet						1500	TD drilled = 10 feet. TD sampled = 7 feet.
15								
20								

# BOREHOLE LOG

Project Name: AFP 59			
Project Number: 949033-08	Borehole Number: 59BH07	Sheet 1 of 1	
Borehole Location: 3 Feet West of SW corner of Reservoir		Elevation: 828.65	Datum: 770378.9570 (N); 664924.6542 (E)
Drilling Company: Par. Wolff	Driller: D. Richmond	Date Started: 10/19/94	Date Finished: 10/19/94
Drilling Equipment: Mobile B57		Total Depth (feet): 7	
Drilling Method: 6 1/4" HSA	Borehole Diameter: 8"	Ambient HNu: 0 ppm	
Drilling Fluid: None	Depth to Water (feet) First: 5.5	Completed: NA	
Completion Information: Grouted to Surface		Logged By: Robert Zapletal	Checked By: David Parse

Depth (feet)	Description	USCS or Rock Type	FID/PID (ppm) Spoon/Headspace	Samples			Drilling Rate/Time	Remarks
				Number	Recovered Length (inches)	Blow Count		
0	6" grass and topsoil.	AF						Cobbles. from 0.5 to 3 feet.
5	Organic, gravelly silt, grass and roots (slough). Gravel <50 mm.	OL	0/0	1	19	14 16 21 12	1545	Split-spoon at 3 feet. Sample 59BH07S01 (3-5 feet) to lab.
5	Gravelly sand. Gravel 10 to 60 mm. Wet at 5.5 feet.	SW	0/0	2	12	6 19 70/3"	1605	Split-spoon at 5 feet. Sample 59BH07S02 (5-7 feet) to lab. After 70 blows spoon only driven 3 inches.
5	TD = 7 feet							TD drilled = 5 feet. TD sampled = 7 feet.
10								
15								
20								

# BOREHOLE LOG

Project Name: AFP 59			
Project Number: 949033-08	Borehole Number: 59BH08	Sheet 1 of 1	
Borehole Location: 200 Feet East of Reservoir	Elevation: 828.74	Datum: 770383.3566 (N); 665220.7831 (E)	
Drilling Company: Par. Wolff	Driller: D. Richmond	Date Started: 10/20/94	Date Finished: 10/20/94
Drilling Equipment: Mobile B57	Total Depth (feet): 12		
Drilling Method: 6 1/4" HSA	Borehole Diameter: 8"	Ambient HNu: 0 ppm	
Drilling Fluid: None	Depth to Water (feet) First: 11	Completed: NA	
Completion Information: Grouted to Surface	Logged By: Robert Zapletal	Checked By: David Parse	

Depth (feet)	Description	USCS or Rock Type	FID/PID (ppm) Spoon/Headspace	Samples			Drilling Rate/Time	Remarks
				Number	Recovered Length (inches)	Blow Count		
3	3" asphalt. Silty gravel/gravelly silt (artificial fill). Loose. Bottom of spoon stiff clay, medium plasticity, moist.	AF	0/0	1	18	12 10 10 12	0740	Split-spoon at 1 foot. Sample 59BH08S01 (1-3 feet) to lab.
5	Yellowish-brown clay. Slightly plastic. Stiff Slightly moist.	CL	0/0	2	24	9 9 11 21	0800	Split-spoon at 5 feet. Sample 59BH08S02 and replicate 59BH08S09 (5-7 feet) to lab.
10	Sandy/silty gravel. Gravel <30 mm. Wet at 11 feet.	GW	0/0	3	12	3 4 4 5	0810	Split-spoon at 10 feet. Sample 59BH08S03 (10-12 feet) to lab.
	TD = 12 feet							TD drilled = 10 feet. TD sampled = 12 feet.
15								
20								

# BOREHOLE LOG

Project Name: AFP 59		
Project Number: 949033-08	Borehole Number: 59BH09	Sheet 1 of 1
Borehole Location: 25 feet east of reservoir	Elevation: 829.43	Datum: 770416.3041 (N); 665040.1969 (E)
Drilling Company: Par. Wolff	Driller: D. Richmond	Date Started: 10/20/94      Date Finished: 10/20/94
Drilling Equipment: Mobile B57	Total Depth (feet): 17	
Drilling Method: 6 1/4" HSA	Borehole Diameter: 8"	Ambient HNu: 0 ppm
Drilling Fluid: None	Depth to Water (feet) First: 17	Completed: NA
Completion Information: Grouted to Surface	Logged By: Robert Zapletal	Checked By: David Parse

Depth (feet)	Description	USCS or Rock Type	FID/PID (ppm) Spoon/Headspace	Samples			Drilling Rate/Time	Remarks
				Number	Recovered Length (inches)	Blow Count		
1	3" asphalt. Artificial fill.	AF	0/0	1	22	14 16 11 10	0955	Split-spoon at 1 foot. Sample 59BH09S01 (1-3 feet) to lab for MS/MSD.
3	Dark brown, sandy/silty gravel at 3 feet. Gravel 10 mm. Moist.	GW						
5	Dark brown sandy gravel. Loose. Moist. Grades to brownish-orange gravel at 6 feet.	GW	0/0	2	24	6 8 9 49	1010	Split-spoon at 5 feet. Sample 59BH09S02 and replicate 59BH09S09 (5-7 feet) to lab.
10	Sandy gravel. Gravel 5 to 30 mm. rounded. Well graded. Loose.	GW	0/0	3	17	12 16 13 20	1025	Split-spoon at 10 feet. Sample 59BH09S03 (10-12 feet) to lab.
15	Light brown, sandy gravel. Gravel 5 to 30 mm, subrounded. Well graded. Loose. Moist. Wet at 17 feet.	GW	0/0	4	18	12 15 12 15	1045	Split-spoon at 15 feet. Sample 59BH09S04 (15-17 feet) to lab.
17	TD = 17 feet							TD drilled = 15 feet. TD sampled = 17 feet.

# BOREHOLE LOG

Project Name: AFP 59		
Project Number: 949033-08	Borehole Number: 59BH10	Sheet 1 of 1
Borehole Location: Area of former waste oil tanks	Elevation: 829.00	Datum: 770412.5120 (N); 665977.9027 (E)
Drilling Company: Par. Wolff	Driller: D. Richmond	Date Started: 10/21/94
Drilling Equipment: Mobile B57	Date Finished: 10/21/94	
Drilling Method: 6 1/4" HSA	Total Depth (feet): 12	Ambient HNu: 0 ppm
Drilling Fluid: None	Borehole Diameter: 8"	Completed: NA
Completion Information: Grouted to Surface	Depth to Water (feet) First: 11	Logged By: Robert Zapletal
		Checked By: David Parse

Depth (feet)	Description	USCS or Rock Type	FID/PID (ppm) Spoon/Headspace	Samples			Drilling Rate/Time	Remarks
				Number	Recovered Length (inches)	Blow Count		
1	Cobbles from auger cuttings.	AF					0745	Begin augering. First sample at 3 feet.
5	Dark reddish-gray, silty sand with gravel. Coarse to fine sand, gravel <30 mm. 20% silt, 15% gravel. Medium dense. Moist.  SAB.	SM  SM	0/0  5/1	1  2	24  24	16 15 16 22 26 22 20 16	0750  0800	Split-spoon at 3 feet. Sample 59BH10S01 (3-5 feet) to lab.  Split-spoon at 5 feet. Sample 59BH10S02 (5-7 feet) to lab. Obvious petroleum smell.
10	Sandy silt with 20% gravel. Slightly loose. Moist. Gravel with silt at 11 feet. Gravel 10 to 20 mm. 10 to 20% silt. Loose. Wet at 11 feet.	ML GM	30/ 30	3	18	9 10 10 7	0830	Split-spoon at 10 feet. Sample 59BH10S03 (10-12 feet) to lab. Obvious petroleum smell.
15	TD = 12 feet							TD drilled = 10 feet. TD sampled = 12 feet.
20								



# BOREHOLE LOG

Project Name: AFP 59		
Project Number: 949033-08	Borehole Number: 59BH11	Sheet 1 of 1
Borehole Location: Area of former waste oil tanks	Elevation: 828.95	Datum: 770414.2478 (N); 665996.3792 (E)
Drilling Company: Par. Wolff	Driller: D. Richmond	Date Started: 10/21/94      Date Finished: 10/21/94
Drilling Equipment: Mobile B57	Total Depth (feet): 12	
Drilling Method: 6 1/4" HSA	Borehole Diameter: 8"	Ambient HNu: 0.5 ppm
Drilling Fluid: None	Depth to Water (feet) First: 11	Completed: NA
Completion Information: Grouted to Surface	Logged By: Robert Zapletal	Checked By: David Parse

Depth (feet)	Description	USCS or Rock Type	FID/PID (ppm) Spoon/Headspace	Samples			Drilling Rate/Time	Remarks
				Number	Recovered Length (inches)	Blow Count		
1	Cobbles from auger cuttings.						0950	Begin augering. First sample at 3 feet.
5	Light brown clay with little silt and medium gravel. Soft. Slightly plastic. Moist.	CL	0/14	1	22	4 3 3 4	0955	Split-spoon at 3 feet. Sample 59BH11S01 (3-5 feet) to lab.
5	Light brown clay with little silt and medium gravel. Soft. Medium plasticity. Moist.	CL	0/11	2	22	2 3 4 7	1010	Split-spoon at 5 feet. Sample 59BH11S02 (5 -7 feet) to lab.
10	Greenish-gray, clayey gravel with little silt and sand, petroleum odor. Wet at 11 feet.	GC	5/70	3	12	19 13 14 12	1020	Split-spoon at 10 feet. Sample 59BH11S03 (10 -12 feet) to lab.
	TD = 12 feet							TD drilled = 10 feet. TD sampled = 12 feet.
15								
20								

# BOREHOLE LOG

Project Name: AFP 59		
Project Number: 949033-08	Borehole Number: 59BH12	Sheet 1 of 1
Borehole Location: ~8 feet east of AST; former waste oil tank area	Elevation: 829.14	Datum: 770413.0014 (N); 665947.8290 (E)
Drilling Company: Par. Wolff	Driller: D. Richmond	Date Started: 12/23/94
Drilling Equipment: Mobile B57	Date Finished: 10/23/94	
Drilling Method: 6 1/4" HSA	Total Depth (feet): 12	Ambient HNu: 0 ppm
Drilling Fluid: None	Borehole Diameter: 8"	Completed: NA
Completion Information: Grouted to surface	Depth to Water (feet) First: 12	Logged By: Robert Zapletal
	Checked By: David Parse	

Depth (feet)	Description	USCS or Rock Type	FID/PID (ppm) Spoon/Headspace	Samples			Drilling Rate/Time	Remarks
				Number	Recovered Length (inches)	Blow Count		
2	2" asphalt.							
16	Brown gravel with sand and silt. Medium dense. Damp.	GW	0.5/20	1	24	16 20 22	1125	Split-spoon at 1 foot. Sample 59BH12S01 (1-3 feet) to lab.
5	Dark brown, silty clay with scattered gravel. Stiff to very stiff. Scattered organics (roots). Low plasticity. Damp.	CL	0/0.5	2	24	5 10 17 15	1132	Split-spoon at 5 feet. Sample 59BH12S02 (5-7 feet) to lab.
10	Yellowish-brown, clayey silt. Slight plasticity. Medium stiff. Damp.	ML	30/32	3	24	3 4 7 5	1142	Split-spoon at 10 feet. Sample 59BH12S03 and replicate 59BH12S09 (10-12 feet) to lab.
	Gray sand and gravel at 11.5 feet. Moist. Wet at 12 feet.	SW						
	TD = 12 feet							TD drilled = 10 feet. TD sampled = 12 feet.
15								
20								

# BOREHOLE LOG

<b>Project Name:</b> AFP 59		
<b>Project Number:</b> 949033-08	<b>Borehole Number:</b> SW10	<b>Sheet</b> 1 of 2
<b>Borehole Location:</b> 7 feet North of DW10	<b>Elevation:</b> 830.58	<b>Datum:</b> 771059.6751 (N); 666163.9875 (E)
<b>Drilling Company:</b> Par. Wolff	<b>Driller:</b> D. Richmond	<b>Date Started:</b> 10/23/94
<b>Drilling Equipment:</b> Mobile B57	<b>Date Finished:</b> 10/23/94	
<b>Drilling Method:</b> 6 1/4" HSA	<b>Total Depth (feet):</b> 25.5	<b>Borehole Diameter:</b> 8"
<b>Drilling Fluid:</b> None	<b>Depth to Water (feet) First:</b> 15	<b>Ambient HNu:</b> 0 ppm
<b>Completion Information:</b> See Well Construction Log	<b>Completed:</b> 16.31	<b>Logged By:</b> David Parse
		<b>Checked By:</b> Robert Zapletal

Depth (feet)	Description	USCS or Rock Type	FID/PID (ppm) Spoon/Headspace	Samples			Drilling Rate/Time	Remarks
				Number	Recovered Length (inches)	Blow Count		
2	2" Blacktop Brown silty clay. Stiff. Damp.	CL	0/0	1	24	7 9 9 10	1420	Split-spoon at 1 foot. 59SW10S01 (1-3 feet) to lab.
5	Brown clayey silt (~30% clay). Stiff. Damp. Lower 6" is very fine sand and silt with little clay (~10%).	ML SM	0/0	2	24	9 9 12 13	1431	Split-spoon at 5 feet. 59SW10S02 (5-7 feet) to lab.
10	Brown very fine sand and silt with little (10%) clay. Damp upper 1.5', moist lower 0.5'.	SM	0/0	3	24	6 7 7 9	1444	Split-spoon at 10 feet. 59SW10S03 (10-12 feet) to lab.
15	Brown gravel and sand. Wet.	GW	0/0	4	5	5 7 6 8	1458	Split-spoon at 15 feet.
20								

# BOREHOLE LOG

(Continuation Sheet)

Project Name: AFP59	Project Number: 949033-08	Sheet 2 of 2
Borehole Location: 7 feet North of DW10	Borehole Number: SW10	Logged by: D. Parse
		Date: 10/23/94

Depth (feet)	Description	USCS or Rock Type	FID/PID (ppm) Spoon/Headspace	Samples			Drilling Rate/Time	Remarks
				Number	Recovered Length (Inches)	Blow Count		
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">25</div> <div style="margin-bottom: 10px;">30</div> <div style="margin-bottom: 10px;">35</div> <div style="margin-bottom: 10px;">40</div> </div>	<p>Coarse gravel and cobbles.</p> <hr style="border: 0.5px solid black;"/> <p style="text-align: center;">TD = 25.5 feet</p>						<p>1550</p> <p>Augered without sampling from 17-25.5 feet.</p> <p>See DW10 Borehole Log for detailed lithologic description.</p> <p>Augers to total depth.</p>	

# BOREHOLE LOG

<b>Project Name:</b> AFP 59		
<b>Project Number:</b> 949033-08	<b>Borehole Number:</b> SW11	<b>Sheet</b> 1 of 2
<b>Borehole Location:</b> South of Former Waste Oil Tanks	<b>Elevation:</b> 829.20	<b>Datum:</b> 770393.8856 (N); 665984.1829 (E)
<b>Drilling Company:</b> Par. Wolff	<b>Driller:</b> B. Rice	<b>Date Started:</b> 11/9/94
<b>Drilling Equipment:</b> CME 75	<b>Total Depth (feet):</b> 23.7	
<b>Drilling Method:</b> 6 1/4" HSA	<b>Borehole Diameter:</b> 8"	<b>Ambient HNu:</b> 0 ppm
<b>Drilling Fluid:</b> None	<b>Depth to Water (feet) First:</b> 13.5	<b>Completed:</b> 12.25
<b>Completion Information:</b> See Well Construction Log	<b>Logged By:</b> David Parse	<b>Checked By:</b> Robert Zapletal

Depth (feet)	Description	USCS or Rock Type	FID/PID (ppm) Spoon/Headspace	Samples			Drilling Rate/Time	Remarks
				Number	Recovered Length (inches)	Blow Count		
2	2" asphalt. Brown sand and gravel. Medium and coarse sand, fine to coarse gravel. Damp.	SW	0/0	1	22	14 24 25 22	1345	Split-spoon at 1 foot. 59SW11S01 (1-3 feet) to lab.
5	Brown clayey silt with scattered gravel. Slight plasticity. Soft. Damp.	ML	0/0	2	20	3 2 3 3	1357	Split-spoon at 5 feet. 59SW11S02 (5-7 feet) to lab.
10	SAB	ML	0/0	3	4	4 5 5 7	1410	Split-spoon at 10 feet. Little recovery.
12	SAB - Moist.	ML	30/?	4	11	8 14 4 6	1430	Split-spoon at 12 feet. 59SW11S03 (12-14 feet) to lab. Strong petroleum odor.
13.5	Gray fine to coarse sand and gravel at 13.5 feet. Wet at 13.5 feet. Medium dense. Gray silt in augers at 14-15 feet. Soft. Wet.	SW						
14-15		ML					1500	Finished drilling on 11/9/94.
15							0945	Resume drilling on 11/14/94 after 4 day layoff between work shifts.
20								Augered to total depth without collecting samples.

# BOREHOLE LOG

(Continuation Sheet)

<b>Project Name:</b> AFP59	<b>Project Number:</b> 949033-08	<b>Sheet 2 of 2</b>
<b>Borehole Location:</b> South of Former Waste Oil Tanks	<b>Borehole Number:</b> SW11	<b>Logged by:</b> D. Parse
		<b>Date:</b> 11/14/94

Depth (feet)	Description	USCS or Rock Type	FID/PID (ppm) Spoon/Headspace	Samples			Drilling Rate/Time	Remarks
				Number	Recovered Length (inches)	Blow Count		
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">25</div> <div style="margin-bottom: 10px;">30</div> <div style="margin-bottom: 10px;">35</div> <div style="margin-bottom: 10px;">40</div> </div>	<p>TD = 23.7 feet</p>					1025	<p>In gray, very fine sand and silt from 14 to 23.7 feet based on soil cuttings.</p> <p>See DW11 Borehole Log for detailed lithologic description.</p> <p>Augers to total depth.</p>	

# BOREHOLE LOG

<b>Project Name:</b> AFP 59		
<b>Project Number:</b> 949033-08	<b>Borehole Number:</b> SW12	<b>Sheet</b> 1 of 2
<b>Borehole Location:</b> Middle of rear parking lot	<b>Elevation:</b> 829.14	<b>Datum:</b> 770403.6270 (N); 665563.9030 (E)
<b>Drilling Company:</b> Par. Wolff	<b>Driller:</b> B. Rice	<b>Date Started:</b> 11/16/94
<b>Drilling Equipment:</b> CME 75	<b>Date Finished:</b> 11/16/94	
<b>Drilling Method:</b> 6 1/4" HSA	<b>Total Depth (feet):</b> 27	<b>Borehole Diameter:</b> 8"
<b>Drilling Fluid:</b> None	<b>Depth to Water (feet) First:</b> 17	<b>Ambient HNu:</b> 0 ppm
<b>Completion Information:</b> See Well Construction Log	<b>Logged By:</b> David Parse	<b>Completed:</b> 17.50
	<b>Checked By:</b> Robert Zapletal	

Depth (feet)	Description	USCS or Rock Type	FID/PID (ppm) Spoon/Headspace	Samples			Drilling Rate/Time	Remarks
				Number	Recovered Length (inches)	Blow Count		
2	2" asphalt. Brown fine to coarse gravel and sand. Damp.	GW	0/0	1	16	16 23 20 20	1434	Split-spoon at 0.5 feet. 59SW12S01 (0.5-2.5 feet) to lab. Very coarse gravel clasts jammed in liners.
5	SAB	GW	0/0	2	13	7 7 7 8	1455	Split-spoon at 5 feet. 59SW12S02 (5-7 feet) to lab.
7	SAB	GW	0/0	3	0	13 12 15 13	1504	Split-spoon at 7 feet. Tried to take replicate, no recovery.
10	SAB	GW	0/0	4	6	22 16 11 11	1529	Split-spoon at 10 feet. Combined this sleeve with top sleeve from 12-14 feet for 59SW12S03 to lab.
12	SAB - moist at 14 feet.	GW	0/0	5	12	10 8 6 5	1535	Split-spoon at 12 feet. Used bottom 6" sleeve for 59SW12S09 duplicate to lab.
15	SAB	GW	0/0	6	6		1606	Split-spoon at 15 feet. Used sleeve and top sleeve from 17-19 feet for 59SW12S04 to lab.
17	Brown, firm clayey silt. Wet.	ML	0/0	7	24		1614	Split-spoon at 17 feet. Used top sleeve and sleeve from 15-17 feet for 59SW12S04.

# BOREHOLE LOG

(Continuation Sheet)

Project Name: AFP59	Project Number: 949033-08	Sheet 2 of 2
Borehole Location: Middle of rear parking lot	Borehole Number: SW12	Logged by: D. Parse
		Date: 11/16/94

Depth (feet)	Description	USCS or Rock Type	FID/PID (ppm) Spoon/Headspace	Samples			Drilling Rate/Time	Remarks
				Number	Recovered Length (inches)	Blow Count		
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">25</div> <div style="margin-bottom: 10px;">30</div> <div style="margin-bottom: 10px;">35</div> <div style="margin-bottom: 10px;">40</div> </div>	TD = 27 feet						1641  In fine-grained deposits based on soil cuttings.  See DW12 Borehole Log for detailed lithologic description.  Augers to total depth.	



# BOREHOLE LOG

Project Name: AFP 59		
Project Number: 949033-08	Borehole Number: SW13	Sheet 1 of 2
Borehole Location: West end of rear parking lot	Elevation: 828.32	Datum: 770481.9133 (N); 665158.3449 (E)
Drilling Company: Par. Wolff	Driller: B. Rice	Date Started: 11/14/94      Date Finished: 11/15/94
Drilling Equipment: CME 75	Total Depth (feet): 29.5	
Drilling Method: 6 1/4" HSA	Borehole Diameter: 8"	Ambient HNu: 0 ppm
Drilling Fluid: Potable water to prevent heaving sands	Depth to Water (feet) First: 18.8	Completed: 18.06
Completion Information: See Well Construction Log	Logged By: David Parse	Checked By: Robert Zapletal

Depth (feet)	Description	USCS or Rock Type	FID/PID (ppm) Spoon/Headspace	Samples			Drilling Rate/Time	Remarks
				Number	Recovered Length (inches)	Blow Count		
1	2" asphalt. Dark brown mixed clay, silt, sand and gravel fill. Damp. Brown clayey silt from 1.5 to 2.5 feet. Slight plasticity. Damp.	AF ML	0/0	1	17	5 4 4 5	1521	Split-spoon at 0.5 feet. 59SW13S01 (0.5-2.5 feet) to lab; both liners used for sample are brown clayey silt.
5	SAB  Brown, fine to coarse gravel and sand at ~6.5 feet. Some fines. Damp.	ML GW	0/0	2	16	5 7 7 5	1534	Split-spoon at 5 feet. 59SW13S02 (5-7 feet) to lab.
10	SAB. Moist at 11.5 feet.	GW	0/0	3	15	3 2 2 2	1552	Split-spoon at 10 feet. 59SW13S03 (10-12 feet) to lab.
15	SAB. No fines 16 to 17 feet.	GW	0/0	4	17	10 8 5 5	1605	Split-spoon at 15 feet. 59SW13S04 (15-17 feet) to lab.  Water level in borehole ~18.8 feet bgs. Adding water down hole to prevent heaving sands.
20								

# BOREHOLE LOG

(Continuation Sheet)

Project Name: AFP59	Project Number: 949033-08	Sheet 2 of 2
Borehole Location: West end of rear parking lot	Borehole Number: SW13	Logged by: D. Parse
		Date: 11/14/94

Depth (feet)	Description	USCS or Rock Type	FID/PID (ppm) Spoon/Headspace	Samples			Drilling Rate/Time	Remarks
				Number	Recovered Length (Inches)	Blow Count		
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 20px;"> <span style="margin-right: 5px;">25</span> <div style="width: 10px; height: 100px; border-left: 1px dashed black; position: relative;"> <span style="position: absolute; top: 0; left: -5px;">┆</span> <span style="position: absolute; top: 10px; left: -5px;">┆</span> <span style="position: absolute; top: 20px; left: -5px;">┆</span> <span style="position: absolute; top: 30px; left: -5px;">┆</span> <span style="position: absolute; top: 40px; left: -5px;">┆</span> <span style="position: absolute; top: 50px; left: -5px;">┆</span> <span style="position: absolute; top: 60px; left: -5px;">┆</span> <span style="position: absolute; top: 70px; left: -5px;">┆</span> <span style="position: absolute; top: 80px; left: -5px;">┆</span> <span style="position: absolute; top: 90px; left: -5px;">┆</span> </div> </div> <div> <span style="margin-right: 5px;">30</span> <div style="width: 10px; height: 100px; border-left: 1px dashed black; position: relative;"> <span style="position: absolute; top: 0; left: -5px;">┆</span> <span style="position: absolute; top: 10px; left: -5px;">┆</span> <span style="position: absolute; top: 20px; left: -5px;">┆</span> <span style="position: absolute; top: 30px; left: -5px;">┆</span> <span style="position: absolute; top: 40px; left: -5px;">┆</span> <span style="position: absolute; top: 50px; left: -5px;">┆</span> <span style="position: absolute; top: 60px; left: -5px;">┆</span> <span style="position: absolute; top: 70px; left: -5px;">┆</span> <span style="position: absolute; top: 80px; left: -5px;">┆</span> <span style="position: absolute; top: 90px; left: -5px;">┆</span> </div> </div> <div style="margin-top: 20px;"> <span style="margin-right: 5px;">35</span> <div style="width: 10px; height: 100px; border-left: 1px dashed black; position: relative;"> <span style="position: absolute; top: 0; left: -5px;">┆</span> <span style="position: absolute; top: 10px; left: -5px;">┆</span> <span style="position: absolute; top: 20px; left: -5px;">┆</span> <span style="position: absolute; top: 30px; left: -5px;">┆</span> <span style="position: absolute; top: 40px; left: -5px;">┆</span> <span style="position: absolute; top: 50px; left: -5px;">┆</span> <span style="position: absolute; top: 60px; left: -5px;">┆</span> <span style="position: absolute; top: 70px; left: -5px;">┆</span> <span style="position: absolute; top: 80px; left: -5px;">┆</span> <span style="position: absolute; top: 90px; left: -5px;">┆</span> </div> </div> <div style="margin-top: 20px;"> <span style="margin-right: 5px;">40</span> <div style="width: 10px; height: 100px; border-left: 1px dashed black; position: relative;"> <span style="position: absolute; top: 0; left: -5px;">┆</span> <span style="position: absolute; top: 10px; left: -5px;">┆</span> <span style="position: absolute; top: 20px; left: -5px;">┆</span> <span style="position: absolute; top: 30px; left: -5px;">┆</span> <span style="position: absolute; top: 40px; left: -5px;">┆</span> <span style="position: absolute; top: 50px; left: -5px;">┆</span> <span style="position: absolute; top: 60px; left: -5px;">┆</span> <span style="position: absolute; top: 70px; left: -5px;">┆</span> <span style="position: absolute; top: 80px; left: -5px;">┆</span> <span style="position: absolute; top: 90px; left: -5px;">┆</span> </div> </div> </div>	<p>TD = 29.5 feet</p>					1630	<p>Adding water, having some problems with heaving sands.</p> <p>Augered from 17 to 29.5 feet without sampling.</p> <p>See DW13 Borehole Log for detailed lithologic description.</p> <p>Augers to total depth. TD of well will be less due to heaving sands.</p>	

# BOREHOLE LOG

Project Name: AFP 59		
Project Number: 949033-08	Borehole Number: 1W13	Sheet 1 of 2
Borehole Location: West end of rear parking lot	Elevation: 828.36	Datum: 770476.3887 (N); 665158.4168 (E)
Drilling Company: Par. Wolff	Driller: B. Rice	Date Started: 11/8/94      Date Finished: 11/8/94
Drilling Equipment: CME 75	Total Depth (feet): 36	
Drilling Method: 6 1/4" HSA	Borehole Diameter: 8"	Ambient HNu: 0 ppm
Drilling Fluid: Potable water to prevent heaving sands	Depth to Water (feet) First: 20	Completed: 16.12
Completion Information: See Well Construction Log	Logged By: Robert Zapletal	Checked By: David Parse

Depth (feet)	Description	USCS or Rock Type	FID/PID (ppm) Spoon/Headspace	Samples			Drilling Rate/Time	Remarks
				Number	Recovered Length (inches)	Blow Count		
1	3" asphalt.						1330	No samples collected from 0 to 30 feet. 0-30 feet logged by HSA cuttings. See SW13 Borehole Log for detailed lithologic description.
5							1340	
	Gravel and cobbles.	GW					1342	
10	SAB, moist.	GW					1344	
15	SAB, moist.	GW					1355	
20	SAB.	GW					1402	Augered to 20 feet. Wet at ~20 feet.

# BOREHOLE LOG

(Continuation Sheet)

Project Name: AFP59	Project Number: 949033-08	Sheet 2 of 2
Borehole Location: West end of rear parking lot	Borehole Number: 1W13	Logged by: R. Zapletal
		Date: 11/8/94

Depth (feet)	Description	USCS or Rock Type	FID/PID (ppm) Spoons/Headspace	Samples			Drilling Rate/Time	Remarks
				Number	Recovered Length (inches)	Blow Count		
25	Cobbles in cuttings (75-100 mm diameter).						1433	Adding water to prevent heaving sands.
30	Brown, fine to coarse gravel and sand.	GW	0/0	1	12	8 18 19 18	1447	Adding water to prevent heaving sands. Split spoon at 30 feet.
	SAB.	GW	0/0	2	18	11 8 7 10	1512	Split-spoon at 32 feet.
35	Brown clay with little silt at 33 feet. Stiff. Moist.	CL						
	TD = 36 feet						1520	Augers to total depth.
40								

# BOREHOLE LOG

Project Name: AFP 59		
Project Number: 949033-08	Borehole Number: DW10	Sheet 1 of 5
Borehole Location: North of transformer area, east side of plant	Elevation: 830.57	Datum: 771051.4709 (N); 666161.4188 (E)
Drilling Company: Par. Wolff	Driller: Bill Rice	Date Started: 10/17/94
Drilling Equipment: CME-75	Date Finished: 10/20/94	
Drilling Method: 6 1/4" HSA to 38 feet/drive & wash to TD	Total Depth (feet): 95	Ambient HNu: 0 ppm
Drilling Fluid: Potable Water	Borehole Diameter: 8" / 6"	Completed: 16.38
Completion Information: See Well Construction Log	Depth to Water (feet) First: 14.65	Logged By: David Parse
	Checked By: Robert Zapletal	

Depth (feet)	Description	USCS or Rock Type	FID/PID (ppm) Spoon/Headspace	Samples			Drilling Rate/Time	Remarks
				Number	Recovered Length (inches)	Blow Count		
3	3" asphalt. Brownish-gray mixed clay, silt, sand and gravel fill. Dry.	AF					1540	Begin augering.
5	Brown silty clay. Soft. Slightly plastic. Damp.	CL						
5	Brown clayey silt. Soft. Slightly plastic. Grades to brown fine and very fine sand with silt and clay. Moist.	ML SM	0/0	1	24	2 3 2 4	1558	Split-spoon at 5 feet.
10	Brown very fine sand, silt and clay. Very soft. Very low plasticity. Moist. Grades to very moist, fine and very fine sand with ~15% silt and clay. No plasticity. Coarse gravel in bottom of spoon.	SM SM GW	0/0	2	18	1 1 2 3	1612	Split-spoon at 10 feet.
15	Coarse gravel with little sand, trace silt and clay. Wet.	GW	0/0	3	6	1 2 2 2	1623	Wet at 14.65 feet. Split-spoon at 15 feet. Poor recovery due to coarse gravel.
20								

# BOREHOLE LOG

(Continuation Sheet)

Project Name: AFP59	Project Number: 949033-08	Sheet 2 of 5
Borehole Location: North of transformer area	Borehole Number: DW10	Logged by: D. Parse
		Date: 10/17/94 to 10/18/94

Depth (feet)	Description	USCS or Rock Type	FID/PID (ppm) Spoon/Headspace	Samples			Drilling Rate/Time	Remarks
				Number	Recovered Length (inches)	Blow Count		
20	Very dark brown, fine sand. Wet.	SP	0/0	4	24	4	1637	Split-spoon at 20 feet.
22	Dark brown, very fine and fine sand with some silt and clay (~20%). Wet.	SW	0/0	5	20	7	1709	Split-spoon at 22 feet. HNu reading = 0 ppm in BZ and downhole. Started adding water at 22 feet to prevent heaving sands. Split-spoon 24 feet.
25	SAB with scattered gravel grading down to very large cobbles and broken rock fragments at 25 feet. Cobbles are dark gray.	SW GW	0/0	6	22	27	1723	
26	Dark gray, very large cobbles and broken rock fragments.	GW	0/0	7	10	18	1732	Split-spoon at 26 feet. Drab gravel.
28	Dark gray, very large cobbles and broken rock fragments. Some sand between cobbles and fragments.	GW	0/0	8	10	26	1746	Split-spoon at 28 feet.
30	SAB.	GW	0/0.2	9	7	34	1830	Finished drilling on 10/17/94.
32	Gray very coarse gravel and sand in very tight silt and very fine sand.	GW	0/0.2	10	20	28	0742	Split-spoon at 30 feet on 10/18/94. Added water downhole. One 3" to 4" gray cobble jammed in catcher.
34	Gray, coarse gravel and sand with few fines.	GW	0/0.2	11	6	21	0749	Split-spoon at 32 feet. Added water downhole. HNu = 0 ppm in BZ and downhole.
36	SAB.	GW	0/0.2	12	8	24	0825	Split-spoon at 34 feet.
38	Brown coarse gravel and sand with little fines.		0/0.2	13	12	28	0834	Split-spoon at 36 feet. HNu = 0 ppm downhole and in BZ. Switched to drive and wash-no more sampling on 10/18/94.
40						30	0742	Heaving sands at 38 feet. Came up ~7 feet. Pulling augers and setting drive casing. HNu = 0 ppm in BZ and above hole. 38 40 foot sample was first sample collected on 10/19/94.









# BOREHOLE LOG

Project Name: AFP 59		
Project Number: 949033-08	Borehole Number: DW11	Sheet 1 of 5
Borehole Location: South of former waste oil tanks	Elevation: 829.17	Datum: 770394.1921 (N); 665978.5786 (E)
Drilling Company: Par. Wolff	Driller: Bill Rice	Date Started: 10/23/94      Date Finished: 11/7/94
Drilling Equipment: Mobile B57 and CME-75	Total Depth (feet): 84	
Drilling Method: 6 1/4" HSA to 17 feet/drive & wash to TD	Borehole Diameter: 8"/6"	Ambient HNu: 0 ppm
Drilling Fluid: Potable Water	Depth to Water (feet) First: 15	Completed: 15.23
Completion Information: See Well Construction Log	Logged By: David Parse	Checked By: Robert Zapletal

Depth (feet)	Description	USCS or Rock Type	FID/PID (ppm) Spoon/Headspace	Samples			Drilling Rate/Time	Remarks
				Number	Recovered Length (inches)	Blow Count		
2	2" asphalt. Dark brown clay, silt, sand and gravel fill. Brown gravel and sand. Damp.	AF GW					0820	Began augering to 5 feet.
5	Brown clayey silt with scattered gravel. Soft. Slight plasticity. Damp. Higher gravel content in upper 4-inches (25%). Lower 10-inches of sample only trace scattered gravel.	ML	2/2	1	14	4 4 4 6	0831	Split-spoon at 5 feet.
10	SAB except slightly stiff and no scattered gravel. Brown sand and gravel at 11.5 feet.	ML	7/9	2	24	4 4 11 15	0842	Split-spoon at 10 feet.
	Gray fine to coarse sand and gravel, trace clay. Medium dense.	SW	15/ 20	3	6	13 13 15 15	0818	Split-spoon at 12 feet.
	Gray very fine sand and silt with little clay. Medium stiff. Moist to wet.	ML	25/ 8	4	4	4 4 5 5	0859	Split-spoon at 14 feet. HNu = 0.5 ppm in BZ. HNu = 30 to 40 ppm downhole.
15	Gray very fine sand and silt with 10-15% clay. Stiff. Wet. Less clay and slightly coarser than 14 to 16 feet interval.	ML	0/2	5	24	7 8 10 10	0907	Split-spoon at 16 feet. No intermediate well will be installed due to shallow depth of the fine-grained deposits. Set 8" Sch. 80 PVC surface casing to 17.5 feet. Did not need to ream hole to 12" because hole stayed open and had large enough diameter for PVC casing.
20								

# BOREHOLE LOG

(Continuation Sheet)

Project Name: AFP59	Project Number: 949033-08	Sheet 2 of 5
Borehole Location: South of former waste oil tanks	Borehole Number: DW11	Logged by: D. Parse
		Date: 11/5/94

Depth (feet)	Description	USCS or Rock Type	FID/PID (ppm) Spoon/Headspace	Samples			Drilling Rate/Time	Remarks
				Number	Recovered Length (inches)	Blow Count		
20	Gray very fine sand and silt with trace clay. Medium stiff. Wet.	ML	0/0	6	18	9	0820	Split-spoon at 20 feet on 11/5/94.
21						6		
22	SAB	ML	0/0	7	16	5	0824	Split-spoon at 22 feet.
23						4		
24	SAB - soft.	ML	0/0	8	16	4	0918	Split-spoon at 24 feet.
25						2		
26	SAB except higher clay content (~20%), less very fine sand. 55% silt, 25% very fine sand. Some thin reddish-brown clay seams (5 mm).	ML	0/0	9	18	1	0921	Split-spoon at 26 feet.
27						2		
28						2		
29						3		
30	Gray very fine sand and silt with trace clay. Soft to medium stiff. Several thin reddish-brown clay seams.	ML	0/0	10	12	2	1009	Split-spoon at 30 feet.
31						2		
32	SAB - brown-gray color, medium stiff. Lower water content.	ML	0/0	11	20	2	1012	Split-spoon at 32 feet.
33						7		
34	SAB - no clay seams, high water content.	ML	0/0	12	17	3	1118	Split-spoon at 34 feet.
35						4		
36						3		
37	SAB.	ML	0/0	13	19	4	1122	Split-spoon at 36 feet.
38						4		
39						9		
40						13		
41	Gray, fine and very fine sand with silt. Gray very fine sand and silt, trace clay at 38 feet. Soft.	SP ML	0/0	14	20	5	1139	Split-spoon at 38 feet.
42						1		
43						4		
44						3		

# BOREHOLE LOG

(Continuation Sheet)

Project Name: AFP59	Project Number: 949033-08	Sheet 3 of 5
Borehole Location: South of former waste oil tanks	Borehole Number: DW11	Logged by: D. Parse
		Date: 11/5/94

Depth (feet)	Description	USCS or Rock Type	FID/PID (ppm) Spoon/Headspace	Samples			Drilling Rate/Time	Remarks
				Number	Recovered Length (inches)	Blow Count		
45	SAB except more clay. 50% silt, 25% very fine sand, 25% clay. Reddish-brown clay layer 25 mm thick at 41 feet.	ML	0/0	15	20	4 2 3 3	1234	Split-spoon at 40 feet.
	Gray, very fine sand and silt, trace clay. Soft.	ML	0/0	16	20	4 3 3 4	1238	Split-spoon at 42 feet. Last sample collected on 11/5/94.
	SAB - 10 mm reddish brown clay seam at 44.5 feet.	ML	0/0	17	18	3 2 2 2	0839	Split-spoon at 44 feet on 11/6/94.
	SAB.	ML	0/0	18	20	7 9 10 11	0845	Split-spoon at 46 feet.
50	Brownish-gray, fine and very fine sand with silt.	SM	0/0	19	16	5 5 7 9	0938	Split-spoon at 50 feet.
	Brownish-gray, very fine sand and silt with trace clay. Soft. 25 mm reddish brown clay at 54 feet.	ML	0/0	20	20	6 9 10 14	0942	Split-spoon at 52 feet.
	SAB.	ML	0/0	21	22	7 7 9 12	1035	Split-spoon at 54 feet.
55	SAB.	ML	0/0	22	22	9 10 11 12	1040	Split-spoon at 56 feet.
	Brownish-gray silt with little (20%) clay. Slight plasticity. Soft.	ML	0/0	23	16	5 7 7 11	1101	Split-spoon at 58 feet.
60								



# BOREHOLE LOG

(Continuation Sheet)

Project Name: AFP59	Project Number: 949033-08	Sheet 5 of 5
Borehole Location: South of former waste oil tanks	Borehole Number: DW11	Logged by: D. Parse
		Date: 11/7/94

Depth (feet)	Description	USCS or Rock Type	FID/PID (ppm) Spoon/Headspace	Samples			Drilling Rate/Time	Remarks
				Number	Recovered Length (inches)	Blow Count		
85	Gray, very compacted till with shale and siltstone clasts.	Till	0/0	30	12	48 26 28 32	1005	Split-spoon at 80 feet.
	SAB - mainly shale clasts, may be close to bedrock.	Till	0/0	31	14	23 24 44 28	1019	Split-spoon at 82 feet.
	TD = 84 feet							TD drilled = 79.5 feet. TD sampled = 84 feet.
90								
95								
100								

# BOREHOLE LOG

Project Name: AFP 59		
Project Number: 949033-08	Borehole Number: DW12	Sheet 1 of 5
Borehole Location: South of Range Building, middle of parking lot	Elevation: 829.17	Datum: 770397.7488 (N); 665563.5613 (E)
Drilling Company: Par. Wolff	Driller: Bill Rice	Date Started: 10/22/94      Date Finished: 11/3/94
Drilling Equipment: Mobile B57 and CME-75	Total Depth (feet): 89	
Drilling Method: 6 1/4" HSA to 23.5 feet/drive & wash to TD	Borehole Diameter: 8"/6"	Ambient HNu: 0 ppm
Drilling Fluid: Potable Water	Depth to Water (feet) First: 18.5	Completed: 16.78
Completion Information: See Well Construction Log	Logged By: David Parse	Checked By: Robert Zapletal

Depth (feet)	Description	USCS or Rock Type	FID/PID (ppm) Spoon/Headspace	Samples			Drilling Rate/Time	Remarks
				Number	Recovered Length (inches)	Blow Count		
2	2" asphalt. Dark brown mixed clay, silt, sand and gravel fill. Dry. Brown coarse gravel and sand at 1.5 feet. Damp.	AF GP					1256	Begin augering on 10/22/94.
5	Brown gravel with sand, silt and clay. Damp. Lower 3-inches is brown silty clay with fine sand, stiff.	GM	0/0	1	16	30 7 12 9	1306	Split-spoon at 5 feet.
10	Brown gravel and fine sand. Trace fines. Moist.	GP	0/0	2	8	11 9 11 7	1322	Split-spoon at 10 feet.
15	SAB.	GP	0/0	3	6	16 22 22 16	1337	Split-spoon at 15 feet. Large piece of gravel jammed in catcher; poor recovery.  Wet at ~ 18.5 feet.
20								

# BOREHOLE LOG

(Continuation Sheet)

Project Name: AFP59	Project Number: 949033-08	Sheet 2 of 5
Borehole Location: South of Range Building	Borehole Number: DW12	Logged by: D. Parse
		Date: 10/22/94

Depth (feet)	Description	USCS or Rock Type	FID/PID (ppm) Spoon/Headspace	Samples			Drilling Rate/Time	Remarks
				Number	Recovered Length (inches)	Blow Count		
25	SAB - 20 to 20.9 feet	GP	0/0		21	6	1356	Split-spoon at 20 feet.
	Brown, firm clayey silt - 20.9 to 21.5 feet.	ML				4		
25	Gray very fine sand and silt with little clay 21.5 to 21.9 feet.					5		
						8		
25	Gray very fine sand and silt with little clay (10 to 15%), scattered gravel. Medium stiff to stiff. Slight plasticity.	ML	0/0		17	9	1403	Split-spoon at 22 feet. No intermediate well will be set due to the shallow depth to fine grained deposits. Set 8" Sch. 80 PVC surface casing to 23.5 feet using 10 1/4" HSAs on 10/24/94. Allowed grout to set.
						7		
30						6		
						8		
30	Brown very fine sand and silt with ~10% clay. Stiff.	ML	0/0		14	8	1434	Split-spoon at 30 feet on 11/1/94.
30						13		
						13		
30	SAB with a 3-inch fine sand layer at 33 feet.	ML	0/0		18	9	1451	Split-spoon at 32 feet.
35						14		
						15		
35	Upper 3-inches SAB, then brown fine and medium sand with few coarse sand (15%) and scattered gravel. Trace fines. Loose to medium dense.	SP	0/0		24	10	1519	Split-spoon at 34 feet.
35						13		
						13		
35	SAB - medium dense.	SP	0/0		18	10	1521	Split-spoon at 36 feet.
35						16		
						20		
40	SAB except no scattered gravel.	SP	0/0		20	7	1600	Split-spoon at 38 feet.
40						11		
						14		



# BOREHOLE LOG

(Continuation Sheet)

<b>Project Name:</b> AFP59	<b>Project Number:</b> 949033-08	<b>Sheet 3 of 5</b>
<b>Borehole Location:</b> South of Range Building	<b>Borehole Number:</b> DW12	<b>Logged by:</b> D. Parse
		<b>Date:</b> 11/2/94

Depth (feet)	Description	USCS or Rock Type	FID/PID (ppm) Spoon/Headspace	Samples			Drilling Rate/Time	Remarks
				Number	Recovered Length (inches)	Blow Count		
45	Brown very fine sand with silt. 20% fine sand, 20% silt, 60% very fine sand.	SM	0/0	11	16	5	0837	Split-spoon at 46 feet on 11/2/94.
						7		
						8		
						12		
50	SAB with more fine sand (30%), less silt (10 to 15%).	SM	0/0	12	17	6	0942	Split-spoon at 50 feet.
						8		
						9		
						11		
55	SAB except brownish gray color.	SM	0/0	13	22	10	1053	Split-spoon at 55 feet.
						7		
						11		
						12		
60								

# BOREHOLE LOG

(Continuation Sheet)

Project Name: AFP59	Project Number: 949033-08	Sheet 4 of 5
Borehole Location: South of Range Building	Borehole Number: DW12	Logged by: D. Parse
		Date: 11/2/94

Depth (feet)	Description	USCS or Rock Type	FID/PID (ppm) Spoon/Headspace	Samples			Drilling Rate/Time	Remarks
				Number	Recovered Length (Inches)	Blow Count		
60	SAB - lower 4-inches is well rounded gravel with coarse sand. Gravel is composed of brown and gray siltstone and sandstone.	SM	0/0	14	15	4 6 12	1221	Split-spoon at 60 feet.
62	Dark gray, coarse gravel with sand. Gravel mostly siltstone, some bright pieces. Loose. ~70% gravel.	GW	0/0	15	14	9 9 14 13	1412	Split-spoon at 62 feet. Drab gravel.
65	Gray sandy silt with siltstone gravel (20%). Fine to medium sand. Stiff.	ML	0/0	16	18	14 11 14 13	1538	Split-spoon at 65 feet
70	Dark gray medium sand with some (~25%) gravel. Trace fines. Medium dense.	SP	0/0	17	16	15 12 11 12	1650 0750	Finished drilling on 11/2/94. Split-spoon at 70 feet on 11/3/94.
75	Gray fine and medium sand with trace fines, no gravel.	SP	0/0	18	21	15 12 14 13	0957	Split-spoon at 75 feet.
80								

# BOREHOLE LOG

(Continuation Sheet)

Project Name: AFP59	Project Number: 949033-08	Sheet 5 of 5
Borehole Location: South of Range Building	Borehole Number: DW12	Logged by: D. Parse
		Date: 11/3/94

Depth (feet)	Description	USCS or Rock Type	FID/PID (ppm) Spoon/Headpace	Samples			Drilling Rate/Time	Remarks
				Number	Recovered Length (Inches)	Blow Count		
85	Dark gray fine and very fine sand, trace fines. Medium dense. Lower 4-inch is very fine sand, silt and clay. Gravel.	SP	0/0	19	22	11 13 16 44	1130	Split-spoon at 80 feet. Lost water 82.5 to 83 feet in interval that is very hard drilling, probably gravel. Probably thin gravel layer on top of till.
		Glacial Till						
85	Gray, very compacted glacial till with silty shale/siltstone clasts.	Till	0/0	20	20	34 49 55 60	1434	Split-spoon at 85 feet.
	SAB.	Till	0/0	21	16	38 48 52 90	1451	Split spoon at 87 feet.
90	TD = 89 feet							TD drilled = 85 feet. TD sampled = 89 feet.
95								
100								

# BOREHOLE LOG

Project Name: AFP 59		
Project Number: 949033-08	Borehole Number: DW13	Sheet 1 of 5
Borehole Location: West end of rear parking lot	Elevation: 828.42	Datum: 770478.8601 (N); 665153.2117 (E)
Drilling Company: Par. Wolff	Driller: Bill Rice	Date Started: 10/21/94      Date Finished: 10/26/94
Drilling Equipment: Mobile B57 and CME-75	Total Depth (feet): 85	
Drilling Method: 10 1/4" HSA to 34 feet/drive & wash to TD	Borehole Diameter: 12"/6"	Ambient HNu: 0 ppm
Drilling Fluid: Potable Water/Mud (bentonite powder and water)	Depth to Water (feet) First: 19	Completed: 17.31
Completion Information: See Well Construction Log	Logged By: David Parse	Checked By: Robert Zapletal

Depth (feet)	Description	USCS or Rock Type	FID/PID (ppm) Spoon/Headspace	Samples			Drilling Rate/Time	Remarks
				Number	Recovered Length (inches)	Blow Count		
2	2" asphalt.	AF					1325	Augered to 5 feet. Log from cuttings for the 0 to 5 foot interval.
3	Gray mixed clay, silt, sand and gravel fill. Dry.	CL						
4	Brown silty clay at 1 foot. Damp.							
5	Gravel, sand and clay. Damp.	GW						
5	Brown mixed gravel, sand, silt and clay. Damp.	GW	0/0	1	10	6 6 6 5	1340	Split-spoon at 5 feet. Bright gravel. Coarse gravel coming up augers.
10	Medium to coarse gravel and medium to coarse sand. Loose. Damp.	GW	0/0	2	12	7 5 6 9	1348	Split-spoon at 10 feet. Bright gravel.
15	SAB.	GW	0/0	3	8	14 16 24 27	1358	Split-spoon at 15 feet.
20								Very coarse gravel coming up augers.
								Wet at 19 feet.

# BOREHOLE LOG

(Continuation Sheet)

<b>Project Name:</b> AFP59	<b>Project Number:</b> 949033-08	<b>Sheet 2 of 5</b>
<b>Borehole Location:</b> West end of rear parking lot	<b>Borehole Number:</b> DW13	<b>Logged by:</b> D. Parse
		<b>Date:</b> 10/21/94

Depth (feet)	Description	USCS or Rock Type	FID/PID (ppm) Spoon/Headspace	Samples			Drilling Rate/Time	Remarks
				Number	Recovered Length (inches)	Blow Count		
25	Brown medium to coarse sand and gravel. Loose. Wet.	SW	0/0	4	8	16	1410	Split-spoon at 20 feet. HNu = 0 ppm downhole. Very coarse gravel up augers.
	SAB.	SW	0/0	5	10	32	1425	Split-spoon at 22 feet. Drillers adding water downhole. Very coarse gravel up augers.
	SAB.	SW	0/0	6	9	26	1440	Split-spoon at 24 feet.
	Brown well-graded gravel with medium to coarse sand. Loose.	GW	0/0	7	12	14	1500	Split-spoon at 26 feet. Drillers adding water. Very coarse gravel up augers.
	SAB.	GW	0/0	8	12	23	1510	Split-spoon at 28 feet. Very coarse gravel up augers.
						22	1600	Drillers add water.
30	Brown gravel and medium to coarse sand with trace (5%) fines. 50% sand, 50% gravel. Loose.	GW	0/0	9	10	27	1629	Split-spoon at 30 feet. Very coarse gravel up augers.
	SAB.	GW	0/0	10	11	60	0916	Split-spoon at 32 feet on 10/22/94. Added mud (bentonite powder and water) downhole to stop heaving sands.
	Gray very fine sand and silt with little clay (10-20%). Slight plasticity. Stiff. Some gravel in upper 3 inches.	ML	0/0	11	22	46	0934	Split-spoon at 34 feet.
35	SAB - slightly firmer, no plasticity, less clay.	ML	0/0	12	16	7	0952	Split-spoon at 36 feet. Last spoon on 10/22/94 using Mobile B57 rig and augers. Set 8" Sch. 80 PVC surface casing to 36 feet using 10 1/4" HSAs. Allowed grout to set. Drilled down to 40 feet on 10/24/94 with CME 75, then started split spooning at 40 feet.
40						20		
						21		
						22		

# BOREHOLE LOG

(Continuation Sheet)

Project Name: AFP59	Project Number: 949033-08	Sheet 3 of 5
Borehole Location: West end of rear parking lot	Borehole Number: DW13	Logged by: D. Parse
		Date: 10/25/94

Depth (feet)	Description	USCS or Rock Type	FID/PID (ppm) Spoon/Headspace	Samples			Drilling Rate/Time	Remarks
				Number	Recovered Length (inches)	Blow Count		
45	SAB.	ML	0/0	13	12	8 6 7 13	0822	Split-spoon at 40 feet taken on 10/25/94.
	SAB.	ML	0/0	14	22	7 5 6 7	0834	Split-spoon at 42 feet.
	SAB.	ML	0/0	15	19	7 7 6 5	0953	Split-spoon at 44 feet.
	SAB.	ML	0/0	16	10	3 4 4 7	0959	Split-spoon at 46 feet.
	SAB.	ML	0/0	17	21	-- -- --	1028	Split-spoon at 48 feet. Used 300 lb hammer to drive spoon so cannot compare blow counts.
50	SAB.	ML	0/0	18	20	5 6 7 8	1133	Split-spoon at 50 feet.
	SAB.	ML	0/0	19	23	8 11 15 17	1144	Split-spoon at 52 feet.
55	SAB with little (~15%) fine sand in thin layers.	ML	0/0	20	20	6 6 8 9	1333	Split-spoon at 54 feet.
	SAB.	ML	0/0	21	20	6 12 17 21	1338	Split-spoon at 56 feet.
60	SAB.	ML	0/0	22	18	-- -- --	1410	Split-spoon at 58 feet. Used 300 lb hammer so cannot compare blow counts.

# BOREHOLE LOG

(Continuation Sheet)

Project Name: AFP59	Project Number: 949033-08	Sheet 4 of 5
Borehole Location: West end of rear parking lot	Borehole Number: DW13	Logged by: D. Parse
		Date: 10/25/94

Depth (feet)	Description	USCS or Rock Type	FID/PID (ppm) Spoon/Headspace	Samples			Drilling Rate/Time	Remarks
				Number	Recovered Length (inches)	Blow Count		
65	SAB.	ML		23	20	7 11 13 14	1521	Split-spoon at 60 feet.
	SAB.	ML		24	21	3 12 14 19	1531	Split-spoon at 62 feet.
	SAB.	ML	0/0	25	21	4 7 14 19	1649	Split-spoon at 64 feet.
	SAB.	ML	0/0	26	22	7 8 8 19	1657	Split-spoon at 66 feet.
	Greenish gray fine and medium sand. Poorly graded. Medium dense. Trace scattered gravel. No fines.	SP	0/0	27	16	-- -- --	1729	Split-spoon at 68 feet. Used 300 lb hammer so cannot compare blow counts.
70	Gray, very fine sand and silt. Stiff. Same as 34 to 67.5 foot interval.	ML				--		Interbedded very fine sand/silt and fine/medium sand from 67.5 to 70 feet.
	Greenish-gray fine and medium sand. Same as 67.5 to 68.5 foot interval.	SP	0/0	28	20	16 16 22 23	0913	Split-spoon at 70 feet on 10/26/94.
	Gray very fine sand (20%) and silt with trace clay. Stiff.	ML	0/0	29	18	11 15 16 25	0922	Split-spoon at 72 feet.
75	Dark gray fine and medium sand. Medium dense.	SP	0/0	30	24	11 15 17 19	1103	Split-spoon at 74 feet.
	SAB.	SP	0/0	31	22	13 15 19 21 26	1112	Split-spoon at 76 feet.
	Gray, very fine sand and silt. Trace clay.	ML						
80								

# BOREHOLE LOG

(Continuation Sheet)

Project Name: AFP59	Project Number: 949033-08	Sheet 5 of 5
Borehole Location: West end of rear parking lot	Borehole Number: DW13	Logged by: D. Parse
		Date: 10/26/94

Depth (feet)	Description	USCS or Rock Type	FID/PID (ppm) Spoon/Headspace	Samples			Drilling Rate/Time	Remarks
				Number	Recovered Length (inches)	Blow Count		
85	Interbedded very fine sand/silt and fine/medium sand.  Gray, very compacted till with shale and siltstone clasts. Clasts are rounded to angular.	Glacial Till	0/0	32	22	34 25 38 25	1427	Drilling very hard at 82.5 feet shale and siltstone fragments washing up hole.  Split-spoon at 85 feet.
	TD = 87 feet							TD drilled = 85 feet. TD sampled = 87 feet.
90								
95								
100								



# **A P P E N D I X C**

## **PUMPING AND RECOVERY TEST DATA**

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# LITTLE CHOCONUT CREEK GAGING STATION

DATA COLLECTION METHOD: Bubbler Portable Flow Meter

LOCATION: Northern Side of Little Choconut Creek, Due South of the Production Well

DISTANCE TO PUMPING WELL: 340 ft.

Date	Time (HH:MM)	Elapsed Time (min)	Depth of Creek (feet)
12/06/94	830	0	2.82
12/06/94	845	15	2.81
12/06/94	900	30	2.81
12/06/94	915	45	2.80
12/06/94	930	60	2.80
12/06/94	945	75	2.79
12/06/94	1000	90	2.78
12/06/94	1015	105	2.78
12/06/94	1030	120	2.77
12/06/94	1045	135	2.77
12/06/94	1100	150	2.77
12/06/94	1115	165	2.76
12/06/94	1130	180	2.76
12/06/94	1145	195	2.76
12/06/94	1200	210	2.75
12/06/94	1215	225	2.75
12/06/94	1230	240	2.75
12/06/94	1245	255	2.74
12/06/94	1300	270	2.74
12/06/94	1315	285	2.74
12/06/94	1330	300	2.73
12/06/94	1345	315	2.73
12/06/94	1400	330	2.73
12/06/94	1415	345	2.73
12/06/94	1430	360	2.73
12/06/94	1445	375	2.73
12/06/94	1500	390	2.73
12/06/94	1515	405	2.73
12/06/94	1530	420	2.73
12/06/94	1545	435	2.73
12/06/94	1600	450	2.72
12/06/94	1615	465	2.72
12/06/94	1630	480	2.72
12/06/94	1645	495	2.72
12/06/94	1700	510	2.72
12/06/94	1715	525	2.71
12/06/94	1730	540	2.70
12/06/94	1745	555	2.70
12/06/94	1800	570	2.69
12/06/94	1815	585	2.69
12/06/94	1830	600	2.69
12/06/94	1845	615	2.68
12/06/94	1900	630	2.68
12/06/94	1915	645	2.67
12/06/94	1930	660	2.67
12/06/94	1945	675	2.67

# LITTLE CHOCONUT CREEK GAGING STATION

DATA COLLECTION METHOD: Bubbler Portable Flow Meter

LOCATION: Northern Side of Little Choconut Creek, Due South of the Production Well

DISTANCE TO PUMPING WELL: 340 ft.

Date	Time (HH:MM)	Elapsed Time (min)	Depth of Creek (feet)
12/06/94	2000	690	2.68
12/06/94	2015	705	2.67
12/06/94	2030	720	2.66
12/06/94	2045	735	2.65
12/06/94	2100	750	2.65
12/06/94	2115	765	2.64
12/06/94	2130	780	2.64
12/06/94	2145	795	2.63
12/06/94	2200	810	2.63
12/06/94	2215	825	2.62
12/06/94	2230	840	2.62
12/06/94	2245	855	2.61
12/06/94	2300	870	2.60
12/06/94	2315	885	2.60
12/06/94	2330	900	2.59
12/06/94	2345	915	2.59
12/07/94	0	930	2.59
12/07/94	15	945	2.58
12/07/94	30	960	2.58
12/07/94	45	975	2.57
12/07/94	100	990	2.57
12/07/94	115	1005	2.57
12/07/94	130	1020	2.57
12/07/94	145	1035	2.57
12/07/94	200	1050	2.57
12/07/94	215	1065	2.56
12/07/94	230	1080	2.56
12/07/94	245	1095	2.56
12/07/94	300	1110	2.56
12/07/94	315	1125	2.56
12/07/94	330	1140	2.56
12/07/94	345	1155	2.56
12/07/94	400	1170	2.55
12/07/94	415	1185	2.55
12/07/94	430	1200	2.55
12/07/94	445	1215	2.54
12/07/94	500	1230	2.54
12/07/94	515	1245	2.54
12/07/94	530	1260	2.54
12/07/94	545	1275	2.54
12/07/94	600	1290	2.53
12/07/94	615	1305	2.53
12/07/94	630	1320	2.53
12/07/94	645	1335	2.52
12/07/94	700	1350	2.52
12/07/94	715	1365	2.52

# LITTLE CHOCONUT CREEK GAGING STATION

DATA COLLECTION METHOD: Bubbler Portable Flow Meter

LOCATION: Northern Side of Little Choconut Creek, Due South of the Production Well

DISTANCE TO PUMPING WELL: 340 ft.

Date	Time (HH:MM)	Elapsed Time (min)	Depth of Creek (feet)
12/07/94	730	1380	2.52
12/07/94	745	1395	2.51
12/07/94	800	1410	2.51
12/07/94	815	1425	2.50
12/07/94	830	1440	2.51
12/07/94	845	1455	2.51
12/07/94	900	1470	2.51
12/07/94	915	1485	2.51
12/07/94	930	1500	2.51
12/07/94	945	1515	2.51
12/07/94	1000	1530	2.51
12/07/94	1015	1545	2.50
12/07/94	1030	1560	2.50
12/07/94	1346	1756	2.469
12/07/94	1845	2055	2.433
12/07/94	2225	2275	2.432

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## PUMPING TEST

**WELL NO.:** SW1

**DATE OF TEST:** December 6 & 7, 1994

**LOCATION:** Northeast Corner of Property

**DATA COLLECTION METHOD:** Hand

**STATIC WATER LEVEL:** 20.26 ft. (TOC)

**DISTANCE TO PUMPING WELL:** 1050 ft.

Date	Time (HH:MM)	Elapsed Time (min)	Depth to Water (feet)	Drawdown (feet)
12/06/94	1035	35	20.25	-0.01
12/06/94	1233	153	20.25	-0.01
12/06/94	1359	239	20.27	0.01
12/06/94	1507	307	20.26	0.00
12/06/94	1607	367	20.24	-0.02
12/06/94	1703	423	20.27	0.01
12/06/94	1807	487	20.27	0.01
12/06/94	1908	548	20.28	0.02
12/06/94	2002	602	20.31	0.05
12/06/94	2102	662	20.30	0.04
12/06/94	2230	750	20.30	0.04
12/06/94	2304	784	20.31	0.05
12/07/94	2	842	20.31	0.05
12/07/94	102	902	20.30	0.04
12/07/94	201	961	20.33	0.07
12/07/94	301	1021	20.33	0.07
12/07/94	401	1081	20.33	0.07
12/07/94	503	1143	20.31	0.05
12/07/94	607	1207	20.29	0.03
12/07/94	718	1278	20.31	0.05
12/07/94	803	1323	20.32	0.06
12/07/94	911	1391	20.31	0.05

## RECOVERY TEST

**WELL NO.:** SW1

**LOCATION:** Northeast Corner of Property

**STATIC WATER LEVEL:** 20.26 ft. (TOC)

**DATE OF TEST:** December 7 & 8, 1994

**DATA COLLECTION METHOD:** Hand

**TOTAL PUMPING TIME:** 1470 min

Date	Time (HH:MM)	"t" Elapsed Time * (min)	"t" Time Since Pump Shut Off (min)	Depth to Water (feet)	Residual Drawdown (feet)
12/07/94	1055	1495	25	20.32	0.06
12/07/94	1158	1558	88	20.32	0.06
12/07/94	1310	1630	160	20.31	0.05
12/07/94	1403	1683	213	20.31	0.05
12/07/94	1503	1743	273	20.31	0.05
12/07/94	1602	1802	332	20.31	0.05
12/07/94	1723	1883	413	20.32	0.06
12/07/94	1801	1921	451	20.32	0.06
12/07/94	1900	1980	510	20.32	0.06
12/07/94	2007	2047	577	20.34	0.08
12/07/94	2102	2102	632	20.33	0.07
12/07/94	2200	2160	690	20.34	0.08
12/08/94	711	2711	1241	20.33	0.07

\* Elapsed time = Time since pumping began



## PUMPING TEST

**WELL NO.:** DW1

**DATE OF TEST:** December 6 & 7, 1994

**LOCATION:** Northeast Corner of Property

**DATA COLLECTION METHOD:** Hand

**STATIC WATER LEVEL:** 20.27 ft. (TOC)

**DISTANCE TO PUMPING WELL:** 1050 ft.

<b>Date</b>	<b>Time (HH:MM)</b>	<b>Elapsed Time (min)</b>	<b>Depth to Water (feet)</b>	<b>Drawdown (feet)</b>
12/06/94	1035	35	20.28	0.01
12/06/94	1232	152	20.31	0.04
12/06/94	1400	240	20.34	0.07
12/06/94	1508	308	20.33	0.06
12/06/94	1608	368	20.33	0.06
12/06/94	1704	424	20.33	0.06
12/06/94	1808	488	20.34	0.07
12/06/94	1909	549	20.36	0.09
12/06/94	2003	603	20.37	0.10
12/06/94	2103	663	20.38	0.11
12/06/94	2230	750	20.38	0.11
12/06/94	2303	783	20.38	0.11
12/07/94	1	841	20.38	0.11
12/07/94	100	900	20.38	0.11
12/07/94	200	960	20.39	0.12
12/07/94	300	1020	20.39	0.12
12/07/94	400	1080	20.40	0.13
12/07/94	501	1141	20.40	0.13
12/07/94	606	1206	20.39	0.12
12/07/94	717	1277	20.39	0.12
12/07/94	802	1322	20.39	0.12
12/07/94	909	1389	20.39	0.12

## RECOVERY TEST

**WELL NO.:** DW1

**LOCATION:** Northeast Corner of Property

**STATIC WATER LEVEL:** 20.27 ft. (TOC)

**DATE OF TEST:** December 7 & 8, 1994

**DATA COLLECTION METHOD:** Hand

**TOTAL PUMPING TIME:** 1470 min

Date	Time (HH:MM)	"t" Elapsed Time * (min)	"t" Time Since Pump Shut Off (min)	Depth to Water (feet)	Residual Drawdown (feet)
12/07/94	1030	1470	0	20.39	0.12
12/07/94	1056	1496	26	20.40	0.13
12/07/94	1159	1559	89	20.37	0.10
12/07/94	1311	1631	161	20.36	0.09
12/07/94	1404	1684	214	20.36	0.09
12/07/94	1504	1744	274	20.35	0.08
12/07/94	1603	1803	333	20.35	0.08
12/07/94	1724	1884	414	20.36	0.09
12/07/94	1802	1922	452	20.36	0.09
12/07/94	1859	1979	509	20.36	0.09
12/07/94	2007	2047	577	20.37	0.10
12/07/94	2103	2103	633	20.37	0.10
12/07/94	2201	2161	691	20.37	0.10
12/08/94	712	2712	1242	20.35	0.08

\* Elapsed time = Time since pumping began

# PUMPING TEST

**WELL NO.:** SW3

**DATE OF TEST:** December 6 & 7, 1994

**LOCATION:** Rear Parking Lot, South of Plant

**DATA COLLECTION METHOD:** CR10

**STATIC WATER LEVEL:** 21.54 ft. (TOC)

**DISTANCE TO PUMPING WELL:** 440 ft.

Date	Time (HH:MM)	Elapsed Time (min)	Depth to Water (feet)	Corrected Drawdown * (feet)
12/06/94	1000	0	21.54	0.00
12/06/94	1000	0.5	21.54	0.00
12/06/94	1000	1	21.54	0.00
12/06/94	1001	1.5	21.53	-0.01
12/06/94	1001	2	21.54	0.00
12/06/94	1002	2.5	21.54	0.00
12/06/94	1002	3	21.54	0.00
12/06/94	1003	3.5	21.54	0.00
12/06/94	1003	4	21.54	0.00
12/06/94	1004	4.5	21.55	0.01
12/06/94	1004	5	21.55	0.01
12/06/94	1005	5.5	21.55	0.01
12/06/94	1005	6	21.55	0.01
12/06/94	1006	6.5	21.55	0.01
12/06/94	1006	7	21.55	0.01
12/06/94	1007	7.5	21.54	0.00
12/06/94	1007	8	21.54	0.00
12/06/94	1008	8.5	21.54	0.00
12/06/94	1008	9	21.54	0.00
12/06/94	1009	9.5	21.54	0.00
12/06/94	1010	10.5	21.54	0.00
12/06/94	1015	15.5	21.54	0.00
12/06/94	1020	20.5	21.55	0.01
12/06/94	1025	25.5	21.54	0.00
12/06/94	1030	30.5	21.54	0.00
12/06/94	1035	35.5	21.54	0.00
12/06/94	1040	40.5	21.54	0.00
12/06/94	1045	45.5	21.54	0.00
12/06/94	1050	50.5	21.53	-0.01
12/06/94	1055	55.5	21.53	-0.01
12/06/94	1100	60.5	21.53	-0.01
12/06/94	1105	65.5	21.52	-0.02
12/06/94	1110	70.5	21.53	-0.01
12/06/94	1115	75.5	21.53	-0.01
12/06/94	1120	80.5	21.53	-0.01
12/06/94	1125	85.5	21.53	-0.01
12/06/94	1130	90.5	21.53	-0.01
12/06/94	1135	95.5	21.53	-0.01
12/06/94	1140	100.5	21.53	-0.01
12/06/94	1145	105.5	21.52	-0.02
12/06/94	1150	110.5	21.52	-0.02
12/06/94	1155	115.5	21.52	-0.02
12/06/94	1200	120.5	21.52	-0.02
12/06/94	1210	130.5	21.51	-0.03
12/06/94	1220	140.5	21.51	-0.03
12/06/94	1230	150.5	21.51	-0.03
12/06/94	1240	160.5	21.50	-0.04

# PUMPING TEST

**WELL NO.: SW3**

**DATE OF TEST:** December 6 & 7, 1994

**LOCATION:** Rear Parking Lot, South of Plant

**DATA COLLECTION METHOD:** CR10

**STATIC WATER LEVEL:** 21.54 ft. (TOC)

**DISTANCE TO PUMPING WELL:** 440 ft.

Date	Time (HH:MM)	Elapsed Time (min)	Depth to Water (feet)	Corrected Drawdown * (feet)
12/06/94	1250	170.5	21.51	-0.03
12/06/94	1300	180.5	21.50	-0.04
12/06/94	1310	190.5	21.50	-0.04
12/06/94	1320	200.5	21.50	-0.04
12/06/94	1330	210.5	21.50	-0.04
12/06/94	1340	220.5	21.50	-0.04
12/06/94	1350	230.5	21.49	-0.05
12/06/94	1400	240.5	21.49	-0.05
12/06/94	1410	250.5	21.49	-0.05
12/06/94	1420	260.5	21.49	-0.05
12/06/94	1430	270.5	21.48	-0.06
12/06/94	1440	280.5	21.49	-0.05
12/06/94	1450	290.5	21.48	-0.06
12/06/94	1500	300.5	21.47	-0.07
12/06/94	1510	310.5	21.48	-0.06
12/06/94	1520	320.5	21.48	-0.06
12/06/94	1530	330.5	21.47	-0.07
12/06/94	1540	340.5	21.47	-0.07
12/06/94	1550	350.5	21.47	-0.07
12/06/94	1600	360.5	21.46	-0.08
12/06/94	1610	370.5	21.47	-0.07
12/06/94	1620	380.5	21.46	-0.08
12/06/94	1630	390.5	21.45	-0.09
12/06/94	1640	400.5	21.45	-0.09
12/06/94	1650	410.5	21.46	-0.08
12/06/94	1700	420.5	21.45	-0.09
12/06/94	1710	430.5	21.45	-0.09
12/06/94	1720	440.5	21.44	-0.10
12/06/94	1730	450.5	21.44	-0.10
12/06/94	1740	460.5	21.44	-0.10
12/06/94	1750	470.5	21.44	-0.10
12/06/94	1800	480.5	21.44	-0.10
12/06/94	1810	490.5	21.43	-0.11
12/06/94	1820	500.5	21.43	-0.11
12/06/94	1830	510.5	21.43	-0.11
12/06/94	1840	520.5	21.43	-0.11
12/06/94	1850	530.5	21.42	-0.12
12/06/94	1900	540.5	21.42	-0.12
12/06/94	1910	550.5	21.42	-0.12
12/06/94	1920	560.5	21.41	-0.13
12/06/94	1930	570.5	21.41	-0.13
12/06/94	1940	580.5	21.41	-0.13
12/06/94	1950	590.5	21.41	-0.13
12/06/94	2000	600.5	21.41	-0.13
12/06/94	2010	610.5	21.41	-0.13
12/06/94	2020	620.5	21.41	-0.13
12/06/94	2030	630.5	21.40	-0.14

# PUMPING TEST

**WELL NO.: SW3**

**DATE OF TEST: December 6 & 7, 1994**

**LOCATION: Rear Parking Lot, South of Plant**

**DATA COLLECTION METHOD: CR10**

**STATIC WATER LEVEL: 21.54 ft. (TOC)**

**DISTANCE TO PUMPING WELL: 440 ft.**

Date	Time (HH:MM)	Elapsed Time (min)	Depth to Water (feet)	Corrected Drawdown * (feet)
12/06/94	2040	640.5	21.41	-0.13
12/06/94	2050	650.5	21.40	-0.14
12/06/94	2100	660.5	21.40	-0.14
12/06/94	2110	670.5	21.39	-0.15
12/06/94	2120	680.5	21.39	-0.15
12/06/94	2130	690.5	21.39	-0.15
12/06/94	2140	701	21.40	-0.14
12/06/94	2150	711	21.39	-0.15
12/06/94	2200	721	21.38	-0.16
12/06/94	2210	731	21.38	-0.16
12/06/94	2220	741	21.39	-0.15
12/06/94	2230	751	21.38	-0.16
12/06/94	2240	761	21.38	-0.16
12/06/94	2250	771	21.37	-0.17
12/06/94	2300	781	21.37	-0.17
12/06/94	2310	791	21.37	-0.17
12/06/94	2320	801	21.37	-0.17
12/06/94	2330	811	21.36	-0.18
12/06/94	2340	821	21.36	-0.18
12/06/94	2350	831	21.37	-0.17
12/07/94	0	841	21.37	-0.17
12/07/94	10	851	21.36	-0.18
12/07/94	20	861	21.35	-0.19
12/07/94	30	871	21.35	-0.19
12/07/94	40	881	21.35	-0.19
12/07/94	50	891	21.34	-0.20
12/07/94	100	901	21.34	-0.20
12/07/94	110	911	21.34	-0.20
12/07/94	120	921	21.34	-0.20
12/07/94	130	931	21.34	-0.20
12/07/94	140	941	21.34	-0.20
12/07/94	150	951	21.33	-0.21
12/07/94	200	961	21.33	-0.21
12/07/94	210	971	21.33	-0.21
12/07/94	220	981	21.32	-0.22
12/07/94	230	991	21.31	-0.23
12/07/94	240	1001	21.32	-0.22
12/07/94	250	1011	21.31	-0.23
12/07/94	300	1021	21.32	-0.22
12/07/94	310	1031	21.31	-0.23
12/07/94	320	1041	21.31	-0.23
12/07/94	330	1051	21.30	-0.24
12/07/94	340	1061	21.30	-0.24
12/07/94	350	1071	21.30	-0.24
12/07/94	400	1081	21.30	-0.24
12/07/94	410	1091	21.29	-0.25
12/07/94	420	1101	21.29	-0.25

# PUMPING TEST

**WELL NO.: SW3**

**DATE OF TEST: December 6 & 7, 1994**

**LOCATION: Rear Parking Lot, South of Plant**

**DATA COLLECTION METHOD: CR10**

**STATIC WATER LEVEL: 21.54 ft. (TOC)**

**DISTANCE TO PUMPING WELL: 440 ft.**

Date	Time (HH:MM)	Elapsed Time (min)	Depth to Water (feet)	Corrected Drawdown * (feet)
12/07/94	430	1111	21.29	-0.25
12/07/94	440	1121	21.29	-0.25
12/07/94	450	1131	21.28	-0.26
12/07/94	500	1141	21.28	-0.26
12/07/94	510	1151	21.27	-0.27
12/07/94	520	1161	21.28	-0.26
12/07/94	530	1171	21.27	-0.27
12/07/94	540	1181	21.27	-0.27
12/07/94	550	1191	21.26	-0.28
12/07/94	600	1201	21.27	-0.27
12/07/94	610	1211	21.26	-0.28
12/07/94	620	1221	21.26	-0.28
12/07/94	630	1231	21.26	-0.28
12/07/94	640	1241	21.25	-0.29
12/07/94	650	1251	21.25	-0.29
12/07/94	700	1261	21.25	-0.29
12/07/94	710	1271	21.24	-0.30
12/07/94	720	1281	21.24	-0.30
12/07/94	730	1291	21.25	-0.29
12/07/94	740	1301	21.24	-0.30
12/07/94	750	1311	21.23	-0.31
12/07/94	800	1321	21.23	-0.31
12/07/94	810	1331	21.23	-0.31
12/07/94	820	1341	21.23	-0.31
12/07/94	830	1351	21.22	-0.32
12/07/94	840	1361	21.21	-0.33
12/07/94	850	1371	21.21	-0.33
12/07/94	900	1381	21.22	-0.32
12/07/94	910	1391	21.20	-0.34

\* Corrected drawdown = Change in drawdown (ft.) + change in atmospheric pressure (ft.)  
Calculation is necessary for CR10 transducers only

# RECOVERY TEST

**WELL NO.: SW3**

**DATE OF TEST: December 7 & 8, 1994**

**LOCATION: Rear Parking Lot, South of Plant**

**DATA COLLECTION METHOD: CR10**

**STATIC WATER LEVEL: 21.54 ft. (TOC)**

**TOTAL PUMPING TIME: 1470 min**

Date	Time (HH:MM)	"t" Elapsed Time * (min)	"t" Time Since Pump Shut Off (min)	Depth to Water (feet)	Residual Drawdown (feet)
12/07/94	1030	1470	0	21.18	-0.36
12/07/94	1030	1470.5	0.5	21.18	-0.36
12/07/94	1031	1471	1	21.18	-0.36
12/07/94	1031	1471.5	1.5	21.18	-0.36
12/07/94	1032	1472	2	21.18	-0.36
12/07/94	1032	1472.5	2.5	21.18	-0.36
12/07/94	1033	1473	3	21.18	-0.36
12/07/94	1033	1473.5	3.5	21.18	-0.36
12/07/94	1034	1474	4	21.18	-0.36
12/07/94	1034	1474.5	4.5	21.17	-0.37
12/07/94	1035	1475	5	21.18	-0.36
12/07/94	1035	1475.5	5.5	21.17	-0.37
12/07/94	1036	1476	6	21.18	-0.37
12/07/94	1036	1476.5	6.5	21.17	-0.37
12/07/94	1037	1477	7	21.17	-0.37
12/07/94	1037	1477.5	7.5	21.18	-0.36
12/07/94	1038	1478	8	21.18	-0.37
12/07/94	1038	1478.5	8.5	21.18	-0.36
12/07/94	1039	1479	9	21.18	-0.36
12/07/94	1039	1479.5	9.5	21.18	-0.36
12/07/94	1040	1480	10	21.17	-0.37
12/07/94	1045	1485	15	21.17	-0.37
12/07/94	1050	1490	20	21.17	-0.37
12/07/94	1055	1495	25	21.17	-0.37
12/07/94	1100	1500	30	21.17	-0.37
12/07/94	1105	1505	35	21.17	-0.37
12/07/94	1110	1510	40	21.17	-0.37
12/07/94	1115	1515	45	21.17	-0.37
12/07/94	1120	1520	50	21.16	-0.38
12/07/94	1125	1525	55	21.16	-0.38
12/07/94	1130	1530	60	21.16	-0.38
12/07/94	1135	1535	65	21.16	-0.38
12/07/94	1140	1540	70	21.16	-0.38
12/07/94	1145	1545	75	21.16	-0.39
12/07/94	1150	1550	80	21.15	-0.39
12/07/94	1155	1555	85	21.15	-0.39
12/07/94	1200	1560	90	21.15	-0.39
12/07/94	1205	1565	95	21.15	-0.39
12/07/94	1210	1570	100	21.15	-0.39
12/07/94	1215	1575	105	21.15	-0.39
12/07/94	1220	1580	110	21.14	-0.40
12/07/94	1225	1585	115	21.14	-0.40
12/07/94	1230	1590	120	21.14	-0.40
12/07/94	1240	1600	130	21.14	-0.40
12/07/94	1250	1610	140	21.14	-0.40
12/07/94	1300	1620	150	21.14	-0.41
12/07/94	1310	1630	160	21.13	-0.41

# RECOVERY TEST

**WELL NO.: SW3**

**DATE OF TEST:** December 7 & 8, 1994

**LOCATION:** Rear Parking Lot, South of Plant

**DATA COLLECTION METHOD:** CR10

**STATIC WATER LEVEL:** 21.54 ft. (TOC)

**TOTAL PUMPING TIME:** 1470 min

Date	Time (HH:MM)	"t" Elapsed Time * (min)	"t" Time Since Pump Shut Off (min)	Depth to Water (feet)	Residual Drawdown (feet)
12/07/94	1320	1640	170	21.13	-0.42
12/07/94	1330	1650	180	21.13	-0.41
12/07/94	1340	1660	190	21.12	-0.42
12/07/94	1350	1670	200	21.12	-0.42
12/07/94	1400	1680	210	21.12	-0.42
12/07/94	1410	1690	220	21.12	-0.42
12/07/94	1420	1700	230	21.11	-0.43
12/07/94	1430	1710	240	21.11	-0.43
12/07/94	1440	1720	250	21.10	-0.44
12/07/94	1450	1730	260	21.10	-0.44
12/07/94	1500	1740	270	21.10	-0.44
12/07/94	1510	1750	280	21.10	-0.44
12/07/94	1520	1760	290	21.10	-0.45
12/07/94	1530	1770	300	21.09	-0.45
12/07/94	1540	1780	310	21.09	-0.45
12/07/94	1550	1790	320	21.09	-0.45
12/07/94	1600	1800	330	21.08	-0.46
12/07/94	1610	1810	340	21.08	-0.46
12/07/94	1620	1820	350	21.08	-0.46
12/07/94	1630	1830	360	21.08	-0.46
12/07/94	1640	1840	370	21.07	-0.47
12/07/94	1650	1850	380	21.07	-0.47
12/07/94	1700	1860	390	21.07	-0.47
12/07/94	1710	1870	400	21.07	-0.47
12/07/94	1720	1880	410	21.07	-0.47
12/07/94	1730	1890	420	21.07	-0.48
12/07/94	1740	1900	430	21.06	-0.48
12/07/94	1750	1910	440	21.06	-0.48
12/07/94	1800	1920	450	21.06	-0.48
12/07/94	1810	1930	460	21.06	-0.48
12/07/94	1820	1940	470	21.06	-0.48
12/07/94	1830	1950	480	21.05	-0.49
12/07/94	1840	1960	490	21.05	-0.49
12/07/94	1850	1970	500	21.05	-0.49
12/07/94	1900	1980	510	21.04	-0.50
12/07/94	1910	1990	520	21.04	-0.50
12/07/94	1920	2000	530	21.04	-0.50
12/07/94	1930	2010	540	21.04	-0.50
12/07/94	1940	2020	550	21.04	-0.50
12/07/94	1950	2030	560	21.03	-0.51
12/07/94	2000	2040	570	21.04	-0.51
12/07/94	2010	2050	580	21.03	-0.51
12/07/94	2020	2060	590	21.03	-0.52
12/07/94	2030	2070	600	21.03	-0.51
12/07/94	2040	2080	610	21.02	-0.52
12/07/94	2050	2090	620	21.02	-0.52
12/07/94	2100	2100	630	21.02	-0.53



## RECOVERY TEST

**WELL NO.: SW3**

**DATE OF TEST: December 7 & 8, 1994**

**LOCATION: Rear Parking Lot, South of Plant**

**DATA COLLECTION METHOD: CR10**

**STATIC WATER LEVEL: 21.54 ft. (TOC)**

**TOTAL PUMPING TIME: 1470 min**

Date	Time (HH:MM)	"t" Elapsed Time * (min)	"t" Time Since Pump Shut Off (min)	Depth to Water (feet)	Residual Drawdown (feet)
12/07/94	2110	2110	640	21.02	-0.52
12/07/94	2120	2120	650	21.01	-0.53
12/07/94	2130	2130	660	21.01	-0.53
12/07/94	2140	2140	670	21.01	-0.53
12/07/94	2150	2150	680	21.00	-0.54
12/07/94	2200	2160	690	21.01	-0.53
12/07/94	2210	2170	700	21.01	-0.53
12/07/94	2220	2180	710	21.01	-0.54
12/07/94	2230	2190	720	21.00	-0.54
12/07/94	2240	2200	730	21.00	-0.54
12/07/94	2250	2210	740	20.99	-0.55
12/07/94	2300	2220	750	20.99	-0.55
12/07/94	2310	2230	760	20.99	-0.55
12/07/94	2320	2240	770	20.98	-0.56
12/07/94	2330	2250	780	20.98	-0.56
12/07/94	2340	2260	790	20.98	-0.56
12/07/94	2350	2270	800	20.98	-0.56
12/08/94	0	2280	810	20.98	-0.56
12/08/94	10	2290	820	20.97	-0.57
12/08/94	20	2300	830	20.97	-0.57
12/08/94	30	2310	840	20.96	-0.58
12/08/94	40	2320	850	20.96	-0.58
12/08/94	50	2330	860	20.96	-0.58
12/08/94	100	2340	870	20.96	-0.58
12/08/94	110	2350	880	20.95	-0.59
12/08/94	120	2360	890	20.95	-0.59
12/08/94	130	2370	900	20.95	-0.59
12/08/94	140	2380	910	20.94	-0.60
12/08/94	150	2390	920	20.94	-0.60
12/08/94	200	2400	930	20.94	-0.60
12/08/94	210	2410	940	20.93	-0.61
12/08/94	220	2420	950	20.93	-0.61
12/08/94	230	2430	960	20.93	-0.61
12/08/94	240	2440	970	20.92	-0.62
12/08/94	250	2450	980	20.92	-0.62
12/08/94	300	2460	990	20.92	-0.62
12/08/94	310	2470	1000	20.91	-0.63
12/08/94	320	2480	1010	20.91	-0.63
12/08/94	330	2490	1020	20.91	-0.63
12/08/94	340	2500	1030	20.91	-0.63
12/08/94	350	2510	1040	20.90	-0.64
12/08/94	400	2520	1050	20.90	-0.64
12/08/94	410	2530	1060	20.90	-0.64
12/08/94	420	2540	1070	20.89	-0.65
12/08/94	430	2550	1080	20.90	-0.64
12/08/94	440	2560	1090	20.89	-0.65
12/08/94	450	2570	1100	20.89	-0.65

## RECOVERY TEST

**WELL NO.:** SW3

**DATE OF TEST:** December 7 & 8, 1994

**LOCATION:** Rear Parking Lot, South of Plant

**DATA COLLECTION METHOD:** CR10

**STATIC WATER LEVEL:** 21.54 ft. (TOC)

**TOTAL PUMPING TIME:** 1470 min

Date	Time (HH:MM)	"t" Elapsed Time * (min)	"t" Time Since Pump Shut Off (min)	Depth to Water (feet)	Residual Drawdown (feet)
12/08/94	500	2580	1110	20.88	-0.66
12/08/94	510	2590	1120	20.88	-0.66
12/08/94	520	2600	1130	20.88	-0.66
12/08/94	530	2610	1140	20.88	-0.66
12/08/94	540	2620	1150	20.88	-0.66
12/08/94	550	2630	1160	20.87	-0.67
12/08/94	600	2640	1170	20.87	-0.67
12/08/94	610	2650	1180	20.87	-0.67
12/08/94	620	2660	1190	20.86	-0.68
12/08/94	630	2670	1200	20.86	-0.68
12/08/94	640	2680	1210	20.86	-0.68
12/08/94	650	2690	1220	20.86	-0.68
12/08/94	700	2700	1230	20.85	-0.69
12/08/94	710	2710	1240	20.85	-0.69
12/08/94	720	2720	1250	20.85	-0.69
12/08/94	730	2730	1260	20.84	-0.70
12/08/94	740	2740	1270	20.84	-0.70
12/08/94	750	2750	1280	20.84	-0.70
12/08/94	800	2760	1290	20.84	-0.70
12/08/94	810	2770	1300	20.84	-0.70
12/08/94	820	2780	1310	20.83	-0.71
12/08/94	830	2790	1320	20.83	-0.71
12/08/94	840	2800	1330	20.83	-0.71
12/08/94	850	2810	1340	20.83	-0.71
12/08/94	900	2820	1350	20.83	-0.71
12/08/94	910	2830	1360	20.82	-0.72
12/08/94	920	2840	1370	20.82	-0.72
12/08/94	930	2850	1380	20.82	-0.72
12/08/94	940	2860	1390	20.81	-0.73
12/08/94	950	2870	1400	20.81	-0.73
12/08/94	1000	2880	1410	20.82	-0.72
12/08/94	1010	2890	1420	20.81	-0.73
12/08/94	1020	2900	1430	20.80	-0.74

\* Elapsed Time = Time since pumping test began

## PUMPING TEST

**WELL NO.:** DW3

**DATE OF TEST:** December 6 & 7, 1994

**LOCATION:** West Parking Lot, SW of Plant

**DATA COLLECTION METHOD:** CR10

**STATIC WATER LEVEL:** 18.69 ft. (TOC)

**DISTANCE TO PUMPING WELL:** 440 ft.

Date	Time (HH:MM)	Elapsed Time (min)	Depth to Water (feet)	Corrected Drawdown * (feet)
12/06/94	1000	0	18.69	0.00
12/06/94	1000	0.5	18.71	0.02
12/06/94	1000	1	18.67	-0.02
12/06/94	1001	1.5	18.67	-0.02
12/06/94	1001	2	18.62	-0.07
12/06/94	1002	2.5	18.69	0.00
12/06/94	1002	3	18.69	0.00
12/06/94	1003	3.5	18.68	-0.01
12/06/94	1003	4	18.78	0.09
12/06/94	1004	4.5	18.82	0.13
12/06/94	1004	5	18.79	0.10
12/06/94	1005	5.5	18.79	0.10
12/06/94	1005	6	18.92	0.23
12/06/94	1006	6.5	19.02	0.33
12/06/94	1006	7	19.05	0.36
12/06/94	1007	7.5	18.97	0.28
12/06/94	1007	8	19.15	0.46
12/06/94	1008	8.5	19.15	0.46
12/06/94	1008	9	19.22	0.53
12/06/94	1009	9.5	19.24	0.55
12/06/94	1010	10.5	19.20	0.51
12/06/94	1015	15.5	19.49	0.80
12/06/94	1020	20.5	19.66	0.97
12/06/94	1025	25.5	19.87	1.18
12/06/94	1030	30.5	19.83	1.14
12/06/94	1035	35.5	20.02	1.33
12/06/94	1040	40.5	20.08	1.39
12/06/94	1045	45.5	20.11	1.42
12/06/94	1050	50.5	19.98	1.29
12/06/94	1055	55.5	19.99	1.30
12/06/94	1100	60.5	20.01	1.32
12/06/94	1105	65.5	20.05	1.36
12/06/94	1110	70.5	20.03	1.34
12/06/94	1115	75.5	20.05	1.36
12/06/94	1120	80.5	20.11	1.42
12/06/94	1125	85.5	20.22	1.53
12/06/94	1130	90.5	20.18	1.49
12/06/94	1135	95.5	20.24	1.55
12/06/94	1140	100.5	20.19	1.50
12/06/94	1145	105.5	20.20	1.51
12/06/94	1150	110.5	20.18	1.49
12/06/94	1155	115.5	20.24	1.55
12/06/94	1200	120.5	20.24	1.55
12/06/94	1210	130.5	20.23	1.54
12/06/94	1220	140.5	20.25	1.56
12/06/94	1230	150.5	20.21	1.52
12/06/94	1240	160.5	20.24	1.55

# PUMPING TEST

**WELL NO.:** DW3

**DATE OF TEST:** December 6 & 7, 1994

**LOCATION:** West Parking Lot, SW of Plant

**DATA COLLECTION METHOD:** CR10

**STATIC WATER LEVEL:** 18.69 ft. (TOC)

**DISTANCE TO PUMPING WELL:** 440 ft.

Date	Time (HH:MM)	Elapsed Time (min)	Depth to Water (feet)	Corrected Drawdown * (feet)
12/06/94	1250	170.5	20.25	1.56
12/06/94	1300	180.5	20.24	1.55
12/06/94	1310	190.5	20.24	1.55
12/06/94	1320	200.5	20.24	1.55
12/06/94	1330	210.5	20.23	1.54
12/06/94	1340	220.5	20.17	1.48
12/06/94	1350	230.5	20.13	1.44
12/06/94	1400	240.5	20.13	1.44
12/06/94	1410	250.5	20.11	1.42
12/06/94	1420	260.5	20.11	1.42
12/06/94	1430	270.5	20.10	1.41
12/06/94	1440	280.5	20.11	1.42
12/06/94	1450	290.5	20.12	1.43
12/06/94	1500	300.5	20.23	1.54
12/06/94	1510	310.5	20.12	1.43
12/06/94	1520	320.5	20.13	1.44
12/06/94	1530	330.5	20.13	1.44
12/06/94	1540	340.5	20.10	1.41
12/06/94	1550	350.5	20.14	1.45
12/06/94	1600	360.5	20.18	1.49
12/06/94	1610	370.5	20.11	1.42
12/06/94	1620	380.5	20.11	1.42
12/06/94	1630	390.5	20.11	1.42
12/06/94	1640	400.5	20.09	1.40
12/06/94	1650	410.5	20.14	1.45
12/06/94	1700	420.5	20.20	1.51
12/06/94	1710	430.5	20.16	1.47
12/06/94	1720	440.5	20.11	1.42
12/06/94	1730	450.5	20.14	1.45
12/06/94	1740	460.5	20.13	1.44
12/06/94	1750	470.5	20.21	1.52
12/06/94	1800	480.5	20.21	1.52
12/06/94	1810	490.5	20.17	1.48
12/06/94	1820	500.5	20.17	1.48
12/06/94	1830	510.5	20.16	1.47
12/06/94	1840	520.5	20.09	1.40
12/06/94	1850	530.5	20.10	1.41
12/06/94	1900	540.5	20.09	1.40
12/06/94	1910	550.5	20.18	1.49
12/06/94	1920	560.5	20.13	1.44
12/06/94	1930	570.5	20.22	1.53
12/06/94	1940	580.5	20.22	1.53
12/06/94	1950	590.5	20.07	1.38
12/06/94	2000	600.5	20.22	1.53
12/06/94	2010	610.5	20.09	1.40
12/06/94	2020	620.5	20.13	1.44
12/06/94	2030	630.5	20.10	1.41

# PUMPING TEST

**WELL NO.:** DW3

**DATE OF TEST:** December 6 & 7, 1994

**LOCATION:** West Parking Lot, SW of Plant

**DATA COLLECTION METHOD:** CR10

**STATIC WATER LEVEL:** 18.69 ft. (TOC)

**DISTANCE TO PUMPING WELL:** 440 ft.

Date	Time (HH:MM)	Elapsed Time (min)	Depth to Water (feet)	Corrected Drawdown * (feet)
12/06/94	2040	640.5	20.10	1.41
12/06/94	2050	650.5	20.14	1.45
12/06/94	2100	660.5	20.09	1.40
12/06/94	2110	670.5	20.16	1.47
12/06/94	2120	680.5	20.11	1.42
12/06/94	2130	690.5	20.05	1.36
12/06/94	2140	701	20.21	1.52
12/06/94	2150	711	20.06	1.37
12/06/94	2200	721	20.02	1.33
12/06/94	2210	731	20.05	1.36
12/06/94	2220	741	20.07	1.38
12/06/94	2230	751	20.07	1.38
12/06/94	2240	761	20.07	1.38
12/06/94	2250	771	20.14	1.45
12/06/94	2300	781	20.12	1.43
12/06/94	2310	791	20.07	1.38
12/06/94	2320	801	20.10	1.41
12/06/94	2330	811	20.07	1.38
12/06/94	2340	821	20.06	1.37
12/06/94	2350	831	20.06	1.37
12/07/94	0	841	20.05	1.36
12/07/94	10	851	20.05	1.36
12/07/94	20	861	20.04	1.35
12/07/94	30	871	20.06	1.37
12/07/94	40	881	20.07	1.38
12/07/94	50	891	20.05	1.36
12/07/94	100	901	20.00	1.31
12/07/94	110	911	20.06	1.37
12/07/94	120	921	20.04	1.35
12/07/94	130	931	20.14	1.45
12/07/94	140	941	20.17	1.48
12/07/94	150	951	20.16	1.47
12/07/94	200	961	20.16	1.47
12/07/94	210	971	20.08	1.39
12/07/94	220	981	20.00	1.31
12/07/94	230	991	20.15	1.46
12/07/94	240	1001	20.09	1.40
12/07/94	250	1011	20.14	1.45
12/07/94	300	1021	20.14	1.45
12/07/94	310	1031	20.03	1.34
12/07/94	320	1041	20.05	1.36
12/07/94	330	1051	19.98	1.29
12/07/94	340	1061	19.99	1.30
12/07/94	350	1071	20.13	1.44
12/07/94	400	1081	20.12	1.43
12/07/94	410	1091	20.01	1.32
12/07/94	420	1101	19.96	1.27

# PUMPING TEST

**WELL NO.:** DW3

**DATE OF TEST:** December 6 & 7, 1994

**LOCATION:** West Parking Lot, SW of Plant

**DATA COLLECTION METHOD:** CR10

**STATIC WATER LEVEL:** 18.69 ft. (TOC)

**DISTANCE TO PUMPING WELL:** 440 ft.

Date	Time (HH:MM)	Elapsed Time (min)	Depth to Water (feet)	Corrected Drawdown * (feet)
12/07/94	430	1111	19.98	1.29
12/07/94	440	1121	20.05	1.36
12/07/94	450	1131	20.02	1.33
12/07/94	500	1141	19.97	1.28
12/07/94	510	1151	20.12	1.43
12/07/94	520	1161	20.01	1.32
12/07/94	530	1171	19.95	1.26
12/07/94	540	1181	19.97	1.28
12/07/94	550	1191	19.98	1.29
12/07/94	600	1201	19.99	1.30
12/07/94	610	1211	19.96	1.27
12/07/94	620	1221	20.00	1.31
12/07/94	630	1231	20.07	1.38
12/07/94	640	1241	19.95	1.26
12/07/94	650	1251	19.96	1.27
12/07/94	700	1261	19.96	1.27
12/07/94	710	1271	19.95	1.26
12/07/94	720	1281	19.95	1.26
12/07/94	730	1291	19.95	1.26
12/07/94	740	1301	19.95	1.26
12/07/94	750	1311	20.00	1.31
12/07/94	800	1321	19.96	1.27
12/07/94	810	1331	19.94	1.25
12/07/94	820	1341	19.94	1.25
12/07/94	830	1351	19.99	1.30
12/07/94	840	1361	20.03	1.34
12/07/94	850	1371	20.05	1.36
12/07/94	900	1381	20.07	1.38
12/07/94	910	1391	19.99	1.30

\* Corrected drawdown = Change in drawdown (ft.) + change in atmospheric pressure (ft.)  
Calculation is necessary for CR10 transducers only

## RECOVERY TEST

**WELL NO.: DW3**

**DATE OF TEST: December 7 & 8, 1994**

**LOCATION: West Parking Lot, Southwest of Plant**

**DATA COLLECTION METHOD: CR10**

**STATIC WATER LEVEL: 18.69 ft. (TOC)**

**TOTAL PUMPING TIME: 1470 min**

Date	Time (HH:MM)	"t" Elapsed Time * (min)	"t" Time Since Pump Shut Off (min)	Depth to Water (feet)	Residual Drawdown (feet)
12/07/94	1030	1470	0	19.89	1.20
12/07/94	1030	1470.5	0.5	19.87	1.18
12/07/94	1031	1471	1	19.89	1.20
12/07/94	1031	1471.5	1.5	19.86	1.17
12/07/94	1032	1472	2	19.95	1.26
12/07/94	1032	1472.5	2.5	19.82	1.13
12/07/94	1033	1473	3	19.76	1.07
12/07/94	1033	1473.5	3.5	19.82	1.13
12/07/94	1034	1474	4	19.82	1.13
12/07/94	1034	1474.5	4.5	19.69	1.00
12/07/94	1035	1475	5	19.61	0.92
12/07/94	1035	1475.5	5.5	19.66	0.97
12/07/94	1036	1476	6	19.53	0.84
12/07/94	1036	1476.5	6.5	19.49	0.80
12/07/94	1037	1477	7	19.48	0.79
12/07/94	1037	1477.5	7.5	19.42	0.73
12/07/94	1038	1478	8	19.42	0.73
12/07/94	1038	1478.5	8.5	19.43	0.74
12/07/94	1039	1479	9	19.30	0.61
12/07/94	1039	1479.5	9.5	19.42	0.73
12/07/94	1040	1480	10	19.26	0.57
12/07/94	1045	1485	15	19.01	0.32
12/07/94	1050	1490	20	18.91	0.22
12/07/94	1055	1495	25	18.85	0.16
12/07/94	1100	1500	30	18.70	0.01
12/07/94	1105	1505	35	18.59	-0.10
12/07/94	1110	1510	40	18.54	-0.15
12/07/94	1115	1515	45	18.63	-0.06
12/07/94	1120	1520	50	18.54	-0.15
12/07/94	1125	1525	55	18.46	-0.23
12/07/94	1130	1530	60	18.43	-0.26
12/07/94	1135	1535	65	18.43	-0.26
12/07/94	1140	1540	70	18.41	-0.28
12/07/94	1145	1545	75	18.38	-0.31
12/07/94	1150	1550	80	18.40	-0.29
12/07/94	1155	1555	85	18.39	-0.30
12/07/94	1200	1560	90	18.47	-0.22
12/07/94	1205	1565	95	18.46	-0.23
12/07/94	1210	1570	100	18.47	-0.22
12/07/94	1215	1575	105	18.38	-0.31
12/07/94	1220	1580	110	18.44	-0.25
12/07/94	1225	1585	115	18.46	-0.23
12/07/94	1230	1590	120	18.47	-0.22
12/07/94	1240	1600	130	18.45	-0.25
12/07/94	1250	1610	140	18.46	-0.23
12/07/94	1300	1620	150	18.45	-0.24
12/07/94	1310	1630	160	18.44	-0.25

# RECOVERY TEST

**WELL NO.: DW3**

**DATE OF TEST: December 7 & 8, 1994**

**LOCATION: West Parking Lot, Southwest of Plant**

**DATA COLLECTION METHOD: CR10**

**STATIC WATER LEVEL: 18.69 ft. (TOC)**

**TOTAL PUMPING TIME: 1470 min**

Date	Time (HH:MM)	Elapsed Time * (min)	Time Since Pump Shut Off (min)	Depth to Water (feet)	Residual Drawdown (feet)
12/07/94	1320	1640	170	18.42	-0.27
12/07/94	1330	1650	180	18.44	-0.25
12/07/94	1340	1660	190	18.40	-0.29
12/07/94	1350	1670	200	18.42	-0.27
12/07/94	1400	1680	210	18.28	-0.41
12/07/94	1410	1690	220	18.43	-0.26
12/07/94	1420	1700	230	18.42	-0.27
12/07/94	1430	1710	240	18.38	-0.31
12/07/94	1440	1720	250	18.39	-0.30
12/07/94	1450	1730	260	18.40	-0.29
12/07/94	1500	1740	270	18.36	-0.33
12/07/94	1510	1750	280	18.28	-0.41
12/07/94	1520	1760	290	18.30	-0.39
12/07/94	1530	1770	300	18.38	-0.31
12/07/94	1540	1780	310	18.37	-0.32
12/07/94	1550	1790	320	18.35	-0.34
12/07/94	1600	1800	330	18.24	-0.45
12/07/94	1610	1810	340	18.26	-0.43
12/07/94	1620	1820	350	18.23	-0.46
12/07/94	1630	1830	360	18.33	-0.36
12/07/94	1640	1840	370	18.22	-0.47
12/07/94	1650	1850	380	18.24	-0.45
12/07/94	1700	1860	390	18.32	-0.37
12/07/94	1710	1870	400	18.22	-0.47
12/07/94	1720	1880	410	18.23	-0.46
12/07/94	1730	1890	420	18.23	-0.46
12/07/94	1740	1900	430	18.34	-0.35
12/07/94	1750	1910	440	18.27	-0.42
12/07/94	1800	1920	450	18.29	-0.40
12/07/94	1810	1930	460	18.37	-0.32
12/07/94	1820	1940	470	18.35	-0.34
12/07/94	1830	1950	480	18.35	-0.34
12/07/94	1840	1960	490	18.22	-0.47
12/07/94	1850	1970	500	18.37	-0.32
12/07/94	1900	1980	510	18.23	-0.46
12/07/94	1910	1990	520	18.26	-0.43
12/07/94	1920	2000	530	18.24	-0.45
12/07/94	1930	2010	540	18.22	-0.47
12/07/94	1940	2020	550	18.22	-0.47
12/07/94	1950	2030	560	18.20	-0.49
12/07/94	2000	2040	570	18.26	-0.43
12/07/94	2010	2050	580	18.19	-0.50
12/07/94	2020	2060	590	18.20	-0.49
12/07/94	2030	2070	600	18.20	-0.49
12/07/94	2040	2080	610	18.20	-0.49
12/07/94	2050	2090	620	18.20	-0.49
12/07/94	2100	2100	630	18.24	-0.45



# RECOVERY TEST

**WELL NO.: DW3**

**DATE OF TEST: December 7 & 8, 1994**

**LOCATION: West Parking Lot, Southwest of Plant**

**DATA COLLECTION METHOD: CR10**

**STATIC WATER LEVEL: 18.69 ft. (TOC)**

**TOTAL PUMPING TIME: 1470 min**

Date	Time (HH:MM)	"t" Elapsed Time * (min)	"t" Time Since Pump Shut Off (min)	Depth to Water (feet)	Residual Drawdown (feet)
12/07/94	2110	2110	640	18.26	-0.43
12/07/94	2120	2120	650	18.25	-0.45
12/07/94	2130	2130	660	18.30	-0.39
12/07/94	2140	2140	670	18.25	-0.44
12/07/94	2150	2150	680	18.16	-0.53
12/07/94	2200	2160	690	18.16	-0.53
12/07/94	2210	2170	700	18.22	-0.47
12/07/94	2220	2180	710	18.16	-0.53
12/07/94	2230	2190	720	18.30	-0.39
12/07/94	2240	2200	730	18.30	-0.39
12/07/94	2250	2210	740	18.29	-0.40
12/07/94	2300	2220	750	18.23	-0.46
12/07/94	2310	2230	760	18.27	-0.42
12/07/94	2320	2240	770	18.27	-0.42
12/07/94	2330	2250	780	18.20	-0.49
12/07/94	2340	2260	790	18.22	-0.47
12/07/94	2350	2270	800	18.15	-0.54
12/08/94	0	2280	810	18.20	-0.49
12/08/94	10	2290	820	18.20	-0.49
12/08/94	20	2300	830	18.13	-0.56
12/08/94	30	2310	840	18.23	-0.46
12/08/94	40	2320	850	18.20	-0.49
12/08/94	50	2330	860	18.16	-0.54
12/08/94	100	2340	870	18.26	-0.44
12/08/94	110	2350	880	18.23	-0.46
12/08/94	120	2360	890	18.25	-0.44
12/08/94	130	2370	900	18.25	-0.44
12/08/94	140	2380	910	18.19	-0.50
12/08/94	150	2390	920	18.23	-0.47
12/08/94	200	2400	930	18.11	-0.58
12/08/94	210	2410	940	18.16	-0.53
12/08/94	220	2420	950	18.10	-0.59
12/08/94	230	2430	960	18.10	-0.59
12/08/94	240	2440	970	18.12	-0.57
12/08/94	250	2450	980	18.10	-0.59
12/08/94	300	2460	990	18.10	-0.59
12/08/94	310	2470	1000	18.10	-0.59
12/08/94	320	2480	1010	18.09	-0.60
12/08/94	330	2490	1020	18.19	-0.50
12/08/94	340	2500	1030	18.19	-0.50
12/08/94	350	2510	1040	18.17	-0.52
12/08/94	400	2520	1050	18.20	-0.49
12/08/94	410	2530	1060	18.19	-0.51
12/08/94	420	2540	1070	18.16	-0.53
12/08/94	430	2550	1080	18.14	-0.55
12/08/94	440	2560	1090	18.16	-0.53
12/08/94	450	2570	1100	18.16	-0.53

## RECOVERY TEST

**WELL NO.: DW3**

**DATE OF TEST: December 7 & 8, 1994**

**LOCATION: West Parking Lot, Southwest of Plant**

**DATA COLLECTION METHOD: CR10**

**STATIC WATER LEVEL: 18.69 ft. (TOC)**

**TOTAL PUMPING TIME: 1470 min**

Date	Time (HH:MM)	"t" Elapsed Time * (min)	"t" Time Since Pump Shut Off (min)	Depth to Water (feet)	Residual Drawdown (feet)
12/08/94	500	2580	1110	18.18	-0.51
12/08/94	510	2590	1120	18.19	-0.50
12/08/94	520	2600	1130	18.15	-0.54
12/08/94	530	2610	1140	18.17	-0.52
12/08/94	540	2620	1150	18.19	-0.50
12/08/94	550	2630	1160	18.17	-0.52
12/08/94	600	2640	1170	18.16	-0.53
12/08/94	610	2650	1180	18.17	-0.52
12/08/94	620	2660	1190	18.06	-0.63
12/08/94	630	2670	1200	18.17	-0.53
12/08/94	640	2680	1210	18.17	-0.52
12/08/94	650	2690	1220	18.18	-0.51
12/08/94	700	2700	1230	18.18	-0.52
12/08/94	710	2710	1240	18.16	-0.53
12/08/94	720	2720	1250	18.17	-0.52
12/08/94	730	2730	1260	18.16	-0.53
12/08/94	740	2740	1270	18.13	-0.56
12/08/94	750	2750	1280	18.04	-0.65
12/08/94	800	2760	1290	18.02	-0.67
12/08/94	810	2770	1300	18.10	-0.59
12/08/94	820	2780	1310	18.03	-0.67
12/08/94	830	2790	1320	18.02	-0.67
12/08/94	840	2800	1330	18.04	-0.65
12/08/94	850	2810	1340	18.12	-0.57
12/08/94	900	2820	1350	18.03	-0.67
12/08/94	910	2830	1360	18.10	-0.59
12/08/94	920	2840	1370	18.02	-0.67
12/08/94	930	2850	1380	18.01	-0.68
12/08/94	940	2860	1390	18.02	-0.67
12/08/94	950	2870	1400	18.01	-0.68
12/08/94	1000	2880	1410	18.01	-0.68
12/08/94	1010	2890	1420	18.01	-0.68
12/08/94	1020	2900	1430	18.00	-0.69

\* Elapsed Time = Time since pumping test began

# PUMPING TEST

**WELL NO.:** SW4

**DATE OF TEST:** December 6 & 7, 1994

**LOCATION:** West of Plating Room

**DATA COLLECTION METHOD:** CR10

**STATIC WATER LEVEL:** 15.51 ft. (TOC)

**DISTANCE TO PUMPING WELL:** 300 ft.

Date	Time (HH:MM)	Elapsed Time (min)	Depth to Water (feet)	Corrected Drawdown * (feet)
12/06/94	1000	0	15.51	0.00
12/06/94	1000	0.33	15.51	0.00
12/06/94	1000	0.67	15.51	0.00
12/06/94	1001	1	15.51	0.00
12/06/94	1002	2	15.51	0.00
12/06/94	1003	3	15.51	0.00
12/06/94	1004	4	15.51	0.00
12/06/94	1005	5	15.51	0.00
12/06/94	1006	6	15.51	0.00
12/06/94	1007	7	15.51	0.00
12/06/94	1008	8	15.52	0.01
12/06/94	1009	9	15.51	0.00
12/06/94	1010	10	15.51	0.00
12/06/94	1015	15	15.51	0.00
12/06/94	1020	20	15.52	0.01
12/06/94	1025	25	15.51	0.00
12/06/94	1030	30	15.51	0.00
12/06/94	1035	35	15.52	0.01
12/06/94	1040	40	15.52	0.01
12/06/94	1045	45	15.52	0.01
12/06/94	1050	50	15.52	0.01
12/06/94	1055	55	15.52	0.01
12/06/94	1100	60	15.52	0.01
12/06/94	1105	65	15.52	0.01
12/06/94	1110	70	15.52	0.01
12/06/94	1115	75	15.53	0.02
12/06/94	1120	80	15.53	0.02
12/06/94	1125	85	15.53	0.02
12/06/94	1130	90	15.53	0.02
12/06/94	1135	95	15.53	0.02
12/06/94	1140	100	15.54	0.03
12/06/94	1145	105	15.54	0.03
12/06/94	1150	110	15.54	0.03
12/06/94	1155	115	15.54	0.03
12/06/94	1200	120	15.54	0.03
12/06/94	1210	130	15.54	0.03
12/06/94	1220	140	15.54	0.03
12/06/94	1230	150	15.55	0.04
12/06/94	1240	160	15.54	0.03
12/06/94	1250	170	15.56	0.05
12/06/94	1300	180	15.55	0.04
12/06/94	1310	190	15.55	0.04
12/06/94	1320	200	15.56	0.05
12/06/94	1330	210	15.56	0.05

## PUMPING TEST

**WELL NO.:** SW4

**LOCATION:** West of Plating Room

**STATIC WATER LEVEL:** 15.51 ft. (TOC)

**DATE OF TEST:** December 6 & 7, 1994

**DATA COLLECTION METHOD:** CR10

**DISTANCE TO PUMPING WELL:** 300 ft.

Date	Time (HH:MM)	Elapsed Time (min)	Depth to Water (feet)	Corrected Drawdown * (feet)
12/06/94	1340	220	15.57	0.06
12/06/94	1350	230	15.57	0.06
12/06/94	1400	240	15.57	0.06
12/06/94	1410	250	15.57	0.06
12/06/94	1420	260	15.58	0.07
12/06/94	1430	270	15.57	0.06
12/06/94	1440	280	15.58	0.07
12/06/94	1450	290	15.58	0.07
12/06/94	1500	300	15.58	0.07
12/06/94	1510	310	15.58	0.07
12/06/94	1520	320	15.59	0.08
12/06/94	1530	330	15.58	0.07
12/06/94	1540	340	15.59	0.08
12/06/94	1550	350	15.59	0.08
12/06/94	1600	360	15.58	0.07
12/06/94	1610	370	15.60	0.09
12/06/94	1620	380	15.59	0.08
12/06/94	1630	390	15.60	0.09
12/06/94	1640	400	15.60	0.09
12/06/94	1650	410	15.60	0.09
12/06/94	1700	420	15.60	0.09
12/06/94	1710	430	15.60	0.09
12/06/94	1720	440	15.60	0.09
12/06/94	1730	450	15.60	0.09
12/06/94	1740	460	15.61	0.10
12/06/94	1750	470	15.61	0.10
12/06/94	1800	480	15.61	0.10
12/06/94	1810	490	15.62	0.11
12/06/94	1820	500	15.62	0.11
12/06/94	1830	510	15.62	0.11
12/06/94	1840	520	15.62	0.11
12/06/94	1850	530	15.62	0.11
12/06/94	1900	540	15.62	0.11
12/06/94	1910	550	15.62	0.11
12/06/94	1920	560	15.62	0.11
12/06/94	1930	570	15.63	0.12
12/06/94	1940	580	15.63	0.12
12/06/94	1950	590	15.63	0.12
12/06/94	2000	600	15.64	0.13
12/06/94	2010	610	15.64	0.13
12/06/94	2020	620	15.64	0.13
12/06/94	2030	630	15.64	0.13
12/06/94	2040	640	15.65	0.14
12/06/94	2050	650	15.65	0.14

# PUMPING TEST

**WELL NO.:** SW4

**DATE OF TEST:** December 6 & 7, 1994

**LOCATION:** West of Plating Room

**DATA COLLECTION METHOD:** CR10

**STATIC WATER LEVEL:** 15.51 ft. (TOC)

**DISTANCE TO PUMPING WELL:** 300 ft.

Date	Time (HH:MM)	Elapsed Time (min)	Depth to Water (feet)	Corrected Drawdown * (feet)
12/06/94	2100	660	15.65	0.14
12/06/94	2110	670	15.65	0.14
12/06/94	2120	680	15.65	0.14
12/06/94	2130	690	15.65	0.14
12/06/94	2140	700	15.66	0.15
12/06/94	2150	710	15.66	0.15
12/06/94	2200	720	15.65	0.14
12/06/94	2210	730	15.66	0.15
12/06/94	2220	740	15.66	0.15
12/06/94	2230	750	15.66	0.15
12/06/94	2240	760	15.66	0.15
12/06/94	2250	770	15.66	0.15
12/06/94	2300	780	15.67	0.16
12/06/94	2310	790	15.66	0.15
12/06/94	2320	800	15.67	0.16
12/06/94	2330	810	15.67	0.16
12/06/94	2340	820	15.67	0.16
12/06/94	2350	830	15.68	0.17
12/07/94	0	840	15.68	0.17
12/07/94	10	850	15.68	0.17
12/07/94	20	860	15.68	0.17
12/07/94	30	870	15.68	0.17
12/07/94	40	880	15.68	0.17
12/07/94	50	890	15.68	0.17
12/07/94	100	900	15.68	0.17
12/07/94	110	910	15.69	0.18
12/07/94	120	920	15.68	0.17
12/07/94	130	930	15.69	0.18
12/07/94	140	940	15.70	0.19
12/07/94	150	950	15.69	0.18
12/07/94	200	960	15.69	0.18
12/07/94	210	970	15.69	0.18
12/07/94	220	980	15.70	0.19
12/07/94	230	990	15.69	0.18
12/07/94	240	1000	15.70	0.19
12/07/94	250	1010	15.70	0.19
12/07/94	300	1020	15.70	0.19
12/07/94	310	1030	15.70	0.19
12/07/94	320	1040	15.70	0.19
12/07/94	330	1050	15.70	0.19
12/07/94	340	1060	15.70	0.19
12/07/94	350	1070	15.70	0.19
12/07/94	400	1080	15.71	0.20
12/07/94	410	1090	15.70	0.19

## PUMPING TEST

**WELL NO.: SW4**

**DATE OF TEST:** December 6 & 7, 1994

**LOCATION:** West of Plating Room

**DATA COLLECTION METHOD:** CR10

**STATIC WATER LEVEL:** 15.51 ft. (TOC)

**DISTANCE TO PUMPING WELL:** 300 ft.

Date	Time (HH:MM)	Elapsed Time (min)	Depth to Water (feet)	Corrected Drawdown * (feet)
12/07/94	420	1100	15.70	0.19
12/07/94	430	1110	15.71	0.20
12/07/94	440	1120	15.71	0.20
12/07/94	450	1130	15.71	0.20
12/07/94	500	1140	15.71	0.20
12/07/94	510	1150	15.71	0.20
12/07/94	520	1160	15.72	0.21
12/07/94	530	1170	15.71	0.20
12/07/94	540	1180	15.72	0.21
12/07/94	550	1190	15.72	0.21
12/07/94	600	1200	15.73	0.22
12/07/94	610	1210	15.72	0.21
12/07/94	620	1220	15.73	0.22
12/07/94	630	1230	15.74	0.23
12/07/94	640	1240	15.73	0.22
12/07/94	650	1250	15.73	0.22
12/07/94	700	1260	15.73	0.22
12/07/94	710	1270	15.73	0.22
12/07/94	720	1280	15.73	0.22
12/07/94	730	1290	15.74	0.23
12/07/94	740	1300	15.74	0.23
12/07/94	750	1310	15.73	0.22
12/07/94	800	1320	15.74	0.23
12/07/94	810	1330	15.74	0.23
12/07/94	820	1340	15.74	0.23
12/07/94	830	1350	15.74	0.23
12/07/94	840	1360	15.74	0.23
12/07/94	850	1370	15.75	0.24
12/07/94	900	1380	15.75	0.24
12/07/94	910	1390	15.75	0.24

\* Corrected drawdown = Change in drawdown (ft.) + change in atmospheric pressure (ft.)  
Calculation is necessary for CR10 transducers only

## RECOVERY TEST

**WELL NO.: SW4**

**DATE OF TEST: December 7 & 8, 1994**

**LOCATION: West of Plating Room**

**DATA COLLECTION METHOD: CR10**

**STATIC WATER LEVEL: 15.51 ft. (TOC)**

**TOTAL PUMPING TIME: 1470 min**

Date	Time (HH:MM)	"t" Elapsed Time * (min)	"t" Time Since Pump Shut Off (min)	Depth to Water (feet)	Residual Drawdown (feet)
12/07/94	1030	1470	0	15.76	0.25
12/07/94	1030	1470.33	0.33	15.76	0.25
12/07/94	1030	1470.66	0.66	15.76	0.25
12/07/94	1031	1471	1	15.76	0.25
12/07/94	1032	1472	2	15.76	0.25
12/07/94	1033	1473	3	15.76	0.25
12/07/94	1034	1474	4	15.75	0.24
12/07/94	1035	1475	5	15.75	0.24
12/07/94	1036	1476	6	15.75	0.24
12/07/94	1037	1477	7	15.76	0.25
12/07/94	1038	1478	8	15.75	0.24
12/07/94	1039	1479	9	15.76	0.25
12/07/94	1040	1480	10	15.76	0.25
12/07/94	1040	1480.33	10.33	15.76	0.25
12/07/94	1045	1485	15	15.75	0.24
12/07/94	1050	1490	20	15.76	0.25
12/07/94	1055	1495	25	15.76	0.25
12/07/94	1100	1500	30	15.76	0.25
12/07/94	1105	1505	35	15.75	0.24
12/07/94	1110	1510	40	15.75	0.24
12/07/94	1115	1515	45	15.75	0.24
12/07/94	1120	1520	50	15.75	0.24
12/07/94	1125	1525	55	15.75	0.24
12/07/94	1130	1530	60	15.74	0.23
12/07/94	1135	1535	65	15.75	0.24
12/07/94	1140	1540	70	15.74	0.23
12/07/94	1145	1545	75	15.74	0.23
12/07/94	1150	1550	80	15.74	0.23
12/07/94	1155	1555	85	15.73	0.23
12/07/94	1200	1560	90	15.73	0.23
12/07/94	1205	1565	95	15.73	0.22
12/07/94	1210	1570	100	15.73	0.22
12/07/94	1215	1575	105	15.73	0.22
12/07/94	1220	1580	110	15.72	0.21
12/07/94	1225	1585	115	15.73	0.22
12/07/94	1230	1590	120	15.72	0.21
12/07/94	1240	1600	130	15.73	0.22
12/07/94	1250	1610	140	15.72	0.21
12/07/94	1300	1620	150	15.72	0.21
12/07/94	1310	1630	160	15.72	0.21
12/07/94	1320	1640	170	15.71	0.20
12/07/94	1330	1650	180	15.71	0.20
12/07/94	1340	1660	190	15.70	0.19
12/07/94	1350	1670	200	15.70	0.19

## RECOVERY TEST

**WELL NO.: SW4**

**DATE OF TEST: December 7 & 8, 1994**

**LOCATION: West of Plating Room**

**DATA COLLECTION METHOD: CR10**

**STATIC WATER LEVEL: 15.51 ft. (TOC)**

**TOTAL PUMPING TIME: 1470 min**

Date	Time (HH:MM)	Elapsed Time * (min)	Time Since Pump Shut Off (min)	Depth to Water (feet)	Residual Drawdown (feet)
12/07/94	1400	1680	210	15.71	0.20
12/07/94	1410	1690	220	15.70	0.19
12/07/94	1420	1700	230	15.70	0.19
12/07/94	1430	1710	240	15.70	0.19
12/07/94	1440	1720	250	15.70	0.19
12/07/94	1450	1730	260	15.69	0.18
12/07/94	1500	1740	270	15.69	0.18
12/07/94	1510	1750	280	15.69	0.18
12/07/94	1520	1760	290	15.69	0.18
12/07/94	1530	1770	300	15.68	0.17
12/07/94	1540	1780	310	15.68	0.17
12/07/94	1550	1790	320	15.68	0.17
12/07/94	1600	1800	330	15.68	0.17
12/07/94	1610	1810	340	15.67	0.16
12/07/94	1620	1820	350	15.67	0.16
12/07/94	1630	1830	360	15.68	0.17
12/07/94	1640	1840	370	15.67	0.16
12/07/94	1650	1850	380	15.66	0.15
12/07/94	1700	1860	390	15.66	0.15
12/07/94	1710	1870	400	15.65	0.14
12/07/94	1720	1880	410	15.66	0.15
12/07/94	1730	1890	420	15.65	0.14
12/07/94	1740	1900	430	15.66	0.15
12/07/94	1750	1910	440	15.65	0.14
12/07/94	1800	1920	450	15.65	0.14
12/07/94	1810	1930	460	15.65	0.14
12/07/94	1820	1940	470	15.65	0.14
12/07/94	1830	1950	480	15.65	0.14
12/07/94	1840	1960	490	15.64	0.13
12/07/94	1850	1970	500	15.65	0.14
12/07/94	1900	1980	510	15.64	0.13
12/07/94	1910	1990	520	15.64	0.13
12/07/94	1920	2000	530	15.65	0.14
12/07/94	1930	2010	540	15.64	0.13
12/07/94	1940	2020	550	15.64	0.13
12/07/94	1950	2030	560	15.64	0.13
12/07/94	2000	2040	570	15.65	0.14
12/07/94	2010	2050	580	15.65	0.14
12/07/94	2020	2060	590	15.64	0.13
12/07/94	2030	2070	600	15.65	0.14
12/07/94	2040	2080	610	15.64	0.13
12/07/94	2050	2090	620	15.64	0.13
12/07/94	2100	2100	630	15.64	0.13
12/07/94	2110	2110	640	15.65	0.14



## RECOVERY TEST

**WELL NO.:** SW4

**DATE OF TEST:** December 7 & 8, 1994

**LOCATION:** West of Plating Room

**DATA COLLECTION METHOD:** CR10

**STATIC WATER LEVEL:** 15.51 ft. (TOC)

**TOTAL PUMPING TIME:** 1470 min

Date	Time (HH:MM)	"t" Elapsed Time * (min)	"t" Time Since Pump Shut Off (min)	Depth to Water (feet)	Residual Drawdown (feet)	
12/07/94	2120	2120		650	15.64	0.13
12/07/94	2130	2130		660	15.64	0.13
12/07/94	2140	2140		670	15.64	0.13
12/07/94	2150	2150		680	15.64	0.13
12/07/94	2200	2160		690	15.64	0.13
12/07/94	2210	2170		700	15.64	0.13
12/07/94	2220	2180		710	15.64	0.13
12/07/94	2230	2190		720	15.64	0.13
12/07/94	2240	2200		730	15.63	0.12
12/07/94	2250	2210		740	15.63	0.12
12/07/94	2300	2220		750	15.64	0.13
12/07/94	2310	2230		760	15.63	0.12
12/07/94	2320	2240		770	15.63	0.12
12/07/94	2330	2250		780	15.63	0.12
12/07/94	2340	2260		790	15.64	0.13
12/07/94	2350	2270		800	15.64	0.13
12/08/94	0	2280		810	15.63	0.12
12/08/94	10	2290		820	15.63	0.12
12/08/94	20	2300		830	15.63	0.12
12/08/94	30	2310		840	15.63	0.12
12/08/94	40	2320		850	15.63	0.12
12/08/94	50	2330		860	15.64	0.13
12/08/94	100	2340		870	15.63	0.12
12/08/94	110	2350		880	15.64	0.13
12/08/94	120	2360		890	15.63	0.12
12/08/94	130	2370		900	15.64	0.13
12/08/94	140	2380		910	15.64	0.13
12/08/94	150	2390		920	15.64	0.13
12/08/94	200	2400		930	15.64	0.13
12/08/94	210	2410		940	15.64	0.13
12/08/94	220	2420		950	15.64	0.13
12/08/94	230	2430		960	15.64	0.13
12/08/94	240	2440		970	15.64	0.13
12/08/94	250	2450		980	15.64	0.13
12/08/94	300	2460		990	15.64	0.13
12/08/94	310	2470	1000	1000	15.63	0.12
12/08/94	320	2480	1010	1010	15.63	0.12
12/08/94	330	2490	1020	1020	15.64	0.13
12/08/94	340	2500	1030	1030	15.63	0.12
12/08/94	350	2510	1040	1040	15.63	0.12
12/08/94	400	2520	1050	1050	15.63	0.12
12/08/94	410	2530	1060	1060	15.63	0.12
12/08/94	420	2540	1070	1070	15.63	0.12
12/08/94	430	2550	1080	1080	15.63	0.12

## RECOVERY TEST

**WELL NO.: SW4**

**DATE OF TEST: December 7 & 8, 1994**

**LOCATION: West of Plating Room**

**DATA COLLECTION METHOD: CR10**

**STATIC WATER LEVEL: 15.51 ft. (TOC)**

**TOTAL PUMPING TIME: 1470 min**

Date	Time (HH:MM)	"t" Elapsed Time * (min)	"t" Time Since Pump Shut Off (min)	Depth to Water (feet)	Residual Drawdown (feet)
12/08/94	440	2560	1090	15.63	0.12
12/08/94	450	2570	1100	15.63	0.12
12/08/94	500	2580	1110	15.62	0.11
12/08/94	510	2590	1120	15.63	0.12
12/08/94	520	2600	1130	15.63	0.12
12/08/94	530	2610	1140	15.62	0.11
12/08/94	540	2620	1150	15.63	0.12
12/08/94	550	2630	1160	15.63	0.12
12/08/94	600	2640	1170	15.62	0.11
12/08/94	610	2650	1180	15.62	0.11
12/08/94	620	2660	1190	15.62	0.11
12/08/94	630	2670	1200	15.62	0.11
12/08/94	640	2680	1210	15.62	0.11
12/08/94	650	2690	1220	15.62	0.11
12/08/94	700	2700	1230	15.62	0.11
12/08/94	710	2710	1240	15.61	0.10
12/08/94	720	2720	1250	15.62	0.11
12/08/94	730	2730	1260	15.61	0.10
12/08/94	740	2740	1270	15.58	0.07
12/08/94	750	2750	1280	15.59	0.08
12/08/94	800	2760	1290	15.58	0.07
12/08/94	810	2770	1300	15.58	0.07
12/08/94	820	2780	1310	15.58	0.07
12/08/94	830	2790	1320	15.57	0.06
12/08/94	840	2800	1330	15.58	0.07
12/08/94	850	2810	1340	15.58	0.07
12/08/94	900	2820	1350	15.58	0.07
12/08/94	910	2830	1360	15.58	0.07
12/08/94	920	2840	1370	15.57	0.06
12/08/94	930	2850	1380	15.59	0.08
12/08/94	940	2860	1390	15.59	0.08
12/08/94	950	2870	1400	15.59	0.08
12/08/94	1000	2880	1410	15.60	0.09
12/08/94	1010	2890	1420	15.59	0.08
12/08/94	1020	2900	1430	15.59	0.08

\* Elapsed time = Time since pumping test began

## PUMPING TEST

**WELL NO.:** DW4

**DATE OF TEST:** December 6 & 7, 1994

**LOCATION:** West of Plating Room

**DATA COLLECTION METHOD:** CR10

**STATIC WATER LEVEL:** 15.52 ft. (TOC)

**DISTANCE TO PUMPING WELL:** 300 ft.

Date	Time (HH:MM)	Elapsed Time (min)	Depth to Water (feet)	Corrected Drawdown * (feet)
12/06/94	1000	0	15.52	0.00
12/06/94	1000	0.33	15.51	-0.01
12/06/94	1000	0.67	15.52	0.00
12/06/94	1001	1	15.52	0.00
12/06/94	1002	2	15.52	0.00
12/06/94	1003	3	15.53	0.01
12/06/94	1004	4	15.55	0.03
12/06/94	1005	5	15.58	0.06
12/06/94	1006	6	15.60	0.08
12/06/94	1007	7	15.62	0.10
12/06/94	1008	8	15.65	0.13
12/06/94	1009	9	15.66	0.14
12/06/94	1010	10	15.69	0.17
12/06/94	1015	15	15.76	0.24
12/06/94	1020	20	15.81	0.29
12/06/94	1025	25	15.84	0.32
12/06/94	1030	30	15.87	0.35
12/06/94	1035	35	15.90	0.38
12/06/94	1040	40	15.91	0.39
12/06/94	1045	45	15.93	0.41
12/06/94	1050	50	15.93	0.41
12/06/94	1055	55	15.95	0.43
12/06/94	1100	60	15.96	0.44
12/06/94	1105	65	15.96	0.44
12/06/94	1110	70	15.97	0.45
12/06/94	1115	75	15.98	0.46
12/06/94	1120	80	15.98	0.46
12/06/94	1125	85	15.99	0.47
12/06/94	1130	90	15.99	0.47
12/06/94	1135	95	16.00	0.48
12/06/94	1140	100	16.01	0.49
12/06/94	1145	105	16.02	0.50
12/06/94	1150	110	16.01	0.49
12/06/94	1155	115	16.01	0.49
12/06/94	1200	120	16.01	0.49
12/06/94	1210	130	16.02	0.50
12/06/94	1220	140	16.03	0.51
12/06/94	1230	150	16.04	0.52
12/06/94	1240	160	16.04	0.52
12/06/94	1250	170	16.05	0.53
12/06/94	1300	180	16.05	0.53
12/06/94	1310	190	16.05	0.53
12/06/94	1320	200	16.06	0.54
12/06/94	1330	210	16.07	0.55

## PUMPING TEST

**WELL NO.:** DW4

**DATE OF TEST:** December 6 & 7, 1994

**LOCATION:** West of Plating Room

**DATA COLLECTION METHOD:** CR10

**STATIC WATER LEVEL:** 15.52 ft. (TOC)

**DISTANCE TO PUMPING WELL:** 300 ft.

Date	Time (HH:MM)	Elapsed Time (min)	Depth to Water (feet)	Corrected Drawdown * (feet)
12/06/94	1340	220	16.08	0.56
12/06/94	1350	230	16.08	0.56
12/06/94	1400	240	16.07	0.55
12/06/94	1410	250	16.08	0.56
12/06/94	1420	260	16.09	0.57
12/06/94	1430	270	16.08	0.56
12/06/94	1440	280	16.10	0.58
12/06/94	1450	290	16.09	0.57
12/06/94	1500	300	16.09	0.57
12/06/94	1510	310	16.10	0.58
12/06/94	1520	320	16.10	0.58
12/06/94	1530	330	16.10	0.58
12/06/94	1540	340	16.10	0.58
12/06/94	1550	350	16.10	0.58
12/06/94	1600	360	16.10	0.58
12/06/94	1610	370	16.11	0.59
12/06/94	1620	380	16.11	0.59
12/06/94	1630	390	16.11	0.59
12/06/94	1640	400	16.10	0.58
12/06/94	1650	410	16.11	0.59
12/06/94	1700	420	16.11	0.59
12/06/94	1710	430	16.12	0.60
12/06/94	1720	440	16.12	0.60
12/06/94	1730	450	16.11	0.59
12/06/94	1740	460	16.12	0.60
12/06/94	1750	470	16.12	0.60
12/06/94	1800	480	16.13	0.61
12/06/94	1810	490	16.14	0.62
12/06/94	1820	500	16.13	0.61
12/06/94	1830	510	16.13	0.61
12/06/94	1840	520	16.14	0.62
12/06/94	1850	530	16.14	0.62
12/06/94	1900	540	16.15	0.63
12/06/94	1910	550	16.14	0.62
12/06/94	1920	560	16.15	0.63
12/06/94	1930	570	16.15	0.63
12/06/94	1940	580	16.14	0.62
12/06/94	1950	590	16.15	0.63
12/06/94	2000	600	16.15	0.63
12/06/94	2010	610	16.15	0.63
12/06/94	2020	620	16.15	0.63
12/06/94	2030	630	16.16	0.64
12/06/94	2040	640	16.17	0.65
12/06/94	2050	650	16.16	0.64

## PUMPING TEST

**WELL NO.: DW4**

**DATE OF TEST: December 6 & 7, 1994**

**LOCATION: West of Plating Room**

**DATA COLLECTION METHOD: CR10**

**STATIC WATER LEVEL: 15.52 ft. (TOC)**

**DISTANCE TO PUMPING WELL: 300 ft.**

Date	Time (HH:MM)	Elapsed Time (min)	Depth to Water (feet)	Corrected Drawdown * (feet)
12/06/94	2100	660	16.16	0.64
12/06/94	2110	670	16.16	0.64
12/06/94	2120	680	16.16	0.64
12/06/94	2130	690	16.16	0.64
12/06/94	2140	700	16.17	0.65
12/06/94	2150	710	16.16	0.64
12/06/94	2200	720	16.17	0.65
12/06/94	2210	730	16.17	0.65
12/06/94	2220	740	16.17	0.65
12/06/94	2230	750	16.16	0.64
12/06/94	2240	760	16.16	0.64
12/06/94	2250	770	16.17	0.65
12/06/94	2300	780	16.17	0.65
12/06/94	2310	790	16.17	0.65
12/06/94	2320	800	16.18	0.66
12/06/94	2330	810	16.17	0.65
12/06/94	2340	820	16.17	0.65
12/06/94	2350	830	16.19	0.67
12/07/94	0	840	16.18	0.66
12/07/94	10	850	16.17	0.65
12/07/94	20	860	16.18	0.66
12/07/94	30	870	16.17	0.65
12/07/94	40	880	16.17	0.65
12/07/94	50	890	16.19	0.67
12/07/94	100	900	16.18	0.66
12/07/94	110	910	16.19	0.67
12/07/94	120	920	16.18	0.66
12/07/94	130	930	16.19	0.67
12/07/94	140	940	16.19	0.67
12/07/94	150	950	16.18	0.66
12/07/94	200	960	16.18	0.66
12/07/94	210	970	16.19	0.67
12/07/94	220	980	16.19	0.67
12/07/94	230	990	16.18	0.66
12/07/94	240	1000	16.20	0.68
12/07/94	250	1010	16.19	0.67
12/07/94	300	1020	16.21	0.69
12/07/94	310	1030	16.19	0.67
12/07/94	320	1040	16.19	0.67
12/07/94	330	1050	16.19	0.67
12/07/94	340	1060	16.19	0.67
12/07/94	350	1070	16.19	0.67
12/07/94	400	1080	16.19	0.67
12/07/94	410	1090	16.19	0.67

## PUMPING TEST

**WELL NO.: DW4**

**DATE OF TEST: December 6 & 7, 1994**

**LOCATION: West of Plating Room**

**DATA COLLECTION METHOD: CR10**

**STATIC WATER LEVEL: 15.52 ft. (TOC)**

**DISTANCE TO PUMPING WELL: 300 ft.**

Date	Time (HH:MM)	Elapsed Time (min)	Depth to Water (feet)	Corrected Drawdown * (feet)
12/07/94	420	1100	16.19	0.67
12/07/94	430	1110	16.19	0.67
12/07/94	440	1120	16.19	0.67
12/07/94	450	1130	16.19	0.67
12/07/94	500	1140	16.19	0.67
12/07/94	510	1150	16.18	0.66
12/07/94	520	1160	16.19	0.67
12/07/94	530	1170	16.19	0.67
12/07/94	540	1180	16.21	0.69
12/07/94	550	1190	16.21	0.69
12/07/94	600	1200	16.21	0.69
12/07/94	610	1210	16.20	0.68
12/07/94	620	1220	16.21	0.69
12/07/94	630	1230	16.21	0.69
12/07/94	640	1240	16.20	0.68
12/07/94	650	1250	16.20	0.68
12/07/94	700	1260	16.21	0.69
12/07/94	710	1270	16.21	0.69
12/07/94	720	1280	16.20	0.68
12/07/94	730	1290	16.21	0.69
12/07/94	740	1300	16.21	0.69
12/07/94	750	1310	16.21	0.69
12/07/94	800	1320	16.22	0.70
12/07/94	810	1330	16.20	0.68
12/07/94	820	1340	16.20	0.68
12/07/94	830	1350	16.20	0.68
12/07/94	840	1360	16.21	0.69
12/07/94	850	1370	16.20	0.68
12/07/94	900	1380	16.21	0.69
12/07/94	910	1390	16.20	0.68

\* Corrected drawdown = Change in drawdown (ft.) + change in atmospheric pressure (ft.)  
 Calculation is necessary for CR10 transducers only

## RECOVERY TEST

**WELL NO.: DW4**

**DATE OF TEST: December 7 & 8, 1994**

**LOCATION: West of Plating Room**

**DATA COLLECTION METHOD: CR10**

**STATIC WATER LEVEL: 15.52 ft. (TOC)**

**TOTAL PUMPING TIME: 1470 min**

Date	Time (HH:MM)	"t" Elapsed Time * (min)	"t" Time Since Pump Shut Off (min)	Depth to Water (feet)	Residual Drawdown (feet)
12/07/94	1030	1470	0	16.21	0.69
12/07/94	1030	1470.33	0.33	16.21	0.69
12/07/94	1030	1470.66	0.66	16.21	0.69
12/07/94	1031	1471	1	16.21	0.69
12/07/94	1032	1472	2	16.20	0.68
12/07/94	1033	1473	3	16.19	0.67
12/07/94	1034	1474	4	16.17	0.65
12/07/94	1035	1475	5	16.13	0.61
12/07/94	1036	1476	6	16.13	0.61
12/07/94	1037	1477	7	16.09	0.57
12/07/94	1038	1478	8	16.08	0.56
12/07/94	1039	1479	9	16.06	0.53
12/07/94	1040	1480	10	16.04	0.52
12/07/94	1040	1480.33	10.33	16.03	0.51
12/07/94	1045	1485	15	15.97	0.44
12/07/94	1050	1490	20	15.93	0.41
12/07/94	1055	1495	25	15.90	0.38
12/07/94	1100	1500	30	15.87	0.35
12/07/94	1105	1505	35	15.85	0.33
12/07/94	1110	1510	40	15.83	0.31
12/07/94	1115	1515	45	15.82	0.30
12/07/94	1120	1520	50	15.81	0.28
12/07/94	1125	1525	55	15.80	0.27
12/07/94	1130	1530	60	15.79	0.26
12/07/94	1135	1535	65	15.79	0.27
12/07/94	1140	1540	70	15.77	0.25
12/07/94	1145	1545	75	15.77	0.25
12/07/94	1150	1550	80	15.76	0.24
12/07/94	1155	1555	85	15.76	0.24
12/07/94	1200	1560	90	15.75	0.23
12/07/94	1205	1565	95	15.74	0.22
12/07/94	1210	1570	100	15.74	0.22
12/07/94	1215	1575	105	15.74	0.22
12/07/94	1220	1580	110	15.74	0.22
12/07/94	1225	1585	115	15.72	0.20
12/07/94	1230	1590	120	15.72	0.20
12/07/94	1240	1600	130	15.72	0.20
12/07/94	1250	1610	140	15.71	0.19
12/07/94	1300	1620	150	15.70	0.18
12/07/94	1310	1630	160	15.70	0.18
12/07/94	1320	1640	170	15.69	0.17
12/07/94	1330	1650	180	15.70	0.17
12/07/94	1340	1660	190	15.68	0.16
12/07/94	1350	1670	200	15.68	0.16
12/07/94	1400	1680	210	15.68	0.16
12/07/94	1410	1690	220	15.67	0.15
12/07/94	1420	1700	230	15.66	0.14

# RECOVERY TEST

**WELL NO.:** DW4

**DATE OF TEST:** December 7 & 8, 1994

**LOCATION:** West of Plating Room

**DATA COLLECTION METHOD:** CR10

**STATIC WATER LEVEL:** 15.52 ft. (TOC)

**TOTAL PUMPING TIME:** 1470 min

Date	Time (HH:MM)	Elapsed Time * (min)	Time Since Pump Shut Off (min)	Depth to Water (feet)	Residual Drawdown (feet)
12/07/94	1430	1710	240	15.67	0.15
12/07/94	1440	1720	250	15.66	0.14
12/07/94	1450	1730	260	15.66	0.14
12/07/94	1500	1740	270	15.66	0.14
12/07/94	1510	1750	280	15.65	0.13
12/07/94	1520	1760	290	15.66	0.14
12/07/94	1530	1770	300	15.65	0.12
12/07/94	1540	1780	310	15.65	0.13
12/07/94	1550	1790	320	15.65	0.13
12/07/94	1600	1800	330	15.64	0.12
12/07/94	1610	1810	340	15.64	0.12
12/07/94	1620	1820	350	15.64	0.12
12/07/94	1630	1830	360	15.64	0.12
12/07/94	1640	1840	370	15.64	0.11
12/07/94	1650	1850	380	15.63	0.11
12/07/94	1700	1860	390	15.62	0.10
12/07/94	1710	1870	400	15.62	0.10
12/07/94	1720	1880	410	15.62	0.10
12/07/94	1730	1890	420	15.62	0.10
12/07/94	1740	1900	430	15.62	0.10
12/07/94	1750	1910	440	15.61	0.09
12/07/94	1800	1920	450	15.62	0.10
12/07/94	1810	1930	460	15.61	0.09
12/07/94	1820	1940	470	15.62	0.09
12/07/94	1830	1950	480	15.61	0.09
12/07/94	1840	1960	490	15.61	0.09
12/07/94	1850	1970	500	15.61	0.09
12/07/94	1900	1980	510	15.61	0.08
12/07/94	1910	1990	520	15.61	0.09
12/07/94	1920	2000	530	15.61	0.09
12/07/94	1930	2010	540	15.60	0.08
12/07/94	1940	2020	550	15.61	0.09
12/07/94	1950	2030	560	15.60	0.08
12/07/94	2000	2040	570	15.61	0.09
12/07/94	2010	2050	580	15.60	0.08
12/07/94	2020	2060	590	15.59	0.07
12/07/94	2030	2070	600	15.60	0.08
12/07/94	2040	2080	610	15.60	0.08
12/07/94	2050	2090	620	15.60	0.08
12/07/94	2100	2100	630	15.59	0.07
12/07/94	2110	2110	640	15.60	0.08
12/07/94	2120	2120	650	15.59	0.07
12/07/94	2130	2130	660	15.59	0.07
12/07/94	2140	2140	670	15.59	0.07
12/07/94	2150	2150	680	15.59	0.07
12/07/94	2200	2160	690	15.59	0.07
12/07/94	2210	2170	700	15.59	0.06



# RECOVERY TEST

**WELL NO.: DW4**

**DATE OF TEST: December 7 & 8, 1994**

**LOCATION: West of Plating Room**

**DATA COLLECTION METHOD: CR10**

**STATIC WATER LEVEL: 15.52 ft. (TOC)**

**TOTAL PUMPING TIME: 1470 min**

Date	Time (HH:MM)	Elapsed Time * (min)	Time Since Pump Shut Off (min)	Depth to Water (feet)	Residual Drawdown (feet)
12/07/94	2220	2180	710	15.59	0.07
12/07/94	2230	2190	720	15.58	0.06
12/07/94	2240	2200	730	15.58	0.06
12/07/94	2250	2210	740	15.58	0.06
12/07/94	2300	2220	750	15.58	0.06
12/07/94	2310	2230	760	15.57	0.05
12/07/94	2320	2240	770	15.58	0.05
12/07/94	2330	2250	780	15.58	0.06
12/07/94	2340	2260	790	15.58	0.06
12/07/94	2350	2270	800	15.57	0.05
12/08/94	0	2280	810	15.57	0.05
12/08/94	10	2290	820	15.57	0.05
12/08/94	20	2300	830	15.57	0.05
12/08/94	30	2310	840	15.56	0.04
12/08/94	40	2320	850	15.57	0.05
12/08/94	50	2330	860	15.57	0.05
12/08/94	100	2340	870	15.57	0.05
12/08/94	110	2350	880	15.56	0.04
12/08/94	120	2360	890	15.56	0.03
12/08/94	130	2370	900	15.56	0.04
12/08/94	140	2380	910	15.57	0.05
12/08/94	150	2390	920	15.57	0.05
12/08/94	200	2400	930	15.57	0.05
12/08/94	210	2410	940	15.57	0.05
12/08/94	220	2420	950	15.57	0.05
12/08/94	230	2430	960	15.56	0.04
12/08/94	240	2440	970	15.55	0.03
12/08/94	250	2450	980	15.56	0.03
12/08/94	300	2460	990	15.56	0.04
12/08/94	310	2470	1000	15.55	0.03
12/08/94	320	2480	1010	15.56	0.03
12/08/94	330	2490	1020	15.56	0.04
12/08/94	340	2500	1030	15.55	0.03
12/08/94	350	2510	1040	15.56	0.04
12/08/94	400	2520	1050	15.56	0.03
12/08/94	410	2530	1060	15.55	0.03
12/08/94	420	2540	1070	15.55	0.03
12/08/94	430	2550	1080	15.55	0.03
12/08/94	440	2560	1090	15.54	0.02
12/08/94	450	2570	1100	15.54	0.01
12/08/94	500	2580	1110	15.55	0.03
12/08/94	510	2590	1120	15.54	0.02
12/08/94	520	2600	1130	15.53	0.01
12/08/94	530	2610	1140	15.55	0.02
12/08/94	540	2620	1150	15.55	0.03
12/08/94	550	2630	1160	15.54	0.02
12/08/94	600	2640	1170	15.53	0.01

## RECOVERY TEST

**WELL NO.: DW4**

**DATE OF TEST: December 7 & 8, 1994**

**LOCATION: West of Plating Room**

**DATA COLLECTION METHOD: CR10**

**STATIC WATER LEVEL: 15.52 ft. (TOC)**

**TOTAL PUMPING TIME: 1470 min**

Date	Time (HH:MM)	Elapsed Time * (min)	Time Since Pump Shut Off (min)	Depth to Water (feet)	Residual Drawdown (feet)
12/08/94	610	2650	1180	15.54	0.02
12/08/94	620	2660	1190	15.53	0.01
12/08/94	630	2670	1200	15.53	0.01
12/08/94	640	2680	1210	15.52	0.00
12/08/94	650	2690	1220	15.53	0.00
12/08/94	700	2700	1230	15.54	0.02
12/08/94	710	2710	1240	15.53	0.01
12/08/94	720	2720	1250	15.54	0.01
12/08/94	730	2730	1260	15.53	0.01
12/08/94	740	2740	1270	15.50	-0.02
12/08/94	750	2750	1280	15.52	-0.01
12/08/94	800	2760	1290	15.50	-0.02
12/08/94	810	2770	1300	15.51	-0.02
12/08/94	820	2780	1310	15.51	-0.01
12/08/94	830	2790	1320	15.51	-0.01
12/08/94	840	2800	1330	15.51	-0.01
12/08/94	850	2810	1340	15.50	-0.02
12/08/94	900	2820	1350	15.50	-0.02
12/08/94	910	2830	1360	15.50	-0.02
12/08/94	920	2840	1370	15.51	-0.01
12/08/94	930	2850	1380	15.51	-0.01
12/08/94	940	2860	1390	15.49	-0.03
12/08/94	950	2870	1400	15.50	-0.02
12/08/94	1000	2880	1410	15.50	-0.02
12/08/94	1010	2890	1420	15.50	-0.02
12/08/94	1020	2900	1430	15.49	-0.03

\* Elapsed time = Time since pumping test began

## PUMPING TEST

**WELL NO.: SW5**

**DATE OF TEST: December 6 & 7, 1994**

**LOCATION: Northwest Corner of Property**

**DATA COLLECTION METHOD: Hand**

**STATIC WATER LEVEL: 25.23 ft. (TOC)**

**DISTANCE TO PUMPING WELL: 805 ft.**

Date	Time (HH:MM)	Elapsed Time (min)	Depth to Water (feet)	Drawdown (feet)
12/06/94	1033	33	25.17	-0.06
12/06/94	1251	171	25.17	-0.06
12/06/94	1410	250	25.16	-0.07
12/06/94	1517	317	25.13	-0.10
12/06/94	1616	376	25.12	-0.11
12/06/94	1717	437	25.17	-0.06
12/06/94	1819	499	25.16	-0.07
12/06/94	1920	560	25.10	-0.13
12/06/94	2015	615	25.17	-0.06
12/06/94	2128	688	25.16	-0.07
12/06/94	2241	761	25.15	-0.08
12/06/94	2314	794	25.13	-0.10
12/07/94	12	852	25.10	-0.13
12/07/94	109	909	25.10	-0.13
12/07/94	210	970	25.12	-0.11
12/07/94	309	1029	25.11	-0.12
12/07/94	408	1088	25.11	-0.12
12/07/94	512	1152	25.09	-0.14
12/07/94	617	1217	25.06	-0.17
12/07/94	726	1286	25.05	-0.18
12/07/94	812	1332	25.05	-0.18
12/07/94	920	1400	25.02	-0.21

## RECOVERY TEST

**WELL NO.:** SW5

**LOCATION:** Northwest Corner of Property

**STATIC WATER LEVEL:** 25.23 ft. (TOC)

**DATE OF TEST:** December 7 & 8, 1994

**DATA COLLECTION METHOD:** Hand

**TOTAL PUMPING TIME:** 1470 min

Date	Time (HH:MM)	"t" Elapsed Time * (min)	"t" Time Since Pump Shut Off (min)	Depth to Water (feet)	Residual Drawdown (feet)
12/07/94	1108	1508	38	25.01	-0.22
12/07/94	1209	1569	99	25.00	-0.23
12/07/94	1320	1640	170	24.98	-0.25
12/07/94	1413	1693	223	24.98	-0.25
12/07/94	1512	1752	282	24.95	-0.28
12/07/94	1615	1815	345	24.97	-0.26
12/07/94	1735	1895	425	24.95	-0.28
12/07/94	1811	1931	461	24.95	-0.28
12/07/94	1907	1987	517	24.96	-0.27
12/07/94	2016	2056	586	24.96	-0.27
12/07/94	2112	2112	642	24.94	-0.29
12/07/94	2209	2169	699	24.94	-0.29
12/08/94	756	2756	1286	24.81	-0.42

\* Elapsed time = Time since pumping began

## PUMPING TEST

**WELL NO.: DW5**

**DATE OF TEST: December 6 & 7, 1994**

**LOCATION: Northwest Corner of Property**

**DATA COLLECTION METHOD: Hand**

**STATIC WATER LEVEL: 24.76 ft (TOC)**

**DISTANCE TO PUMPING WELL: 805 ft.**

Date	Time (HH:MM)	Elapsed Time (min)	Depth to Water (feet)	Drawdown (feet)
12/06/94	1033	33	24.85	0.09
12/06/94	1252	172	25.05	0.29
12/06/94	1411	251	25.05	0.29
12/06/94	1518	318	24.98	0.22
12/06/94	1617	377	25.03	0.27
12/06/94	1718	438	25.04	0.28
12/06/94	1820	500	25.03	0.27
12/06/94	1921	561	25.02	0.26
12/06/94	2016	616	25.01	0.25
12/06/94	2129	689	25.00	0.24
12/06/94	2242	762	25.00	0.24
12/06/94	2315	795	24.99	0.23
12/07/94	13	853	24.96	0.20
12/07/94	110	910	24.96	0.20
12/07/94	211	971	24.97	0.21
12/07/94	311	1031	24.96	0.20
12/07/94	408	1088	24.94	0.18
12/07/94	513	1153	24.92	0.16
12/07/94	618	1218	24.91	0.15
12/07/94	727	1287	24.90	0.14
12/07/94	813	1333	24.90	0.14
12/07/94	922	1402	24.89	0.13

## RECOVERY TEST

**WELL NO.: DW5**

**LOCATION:** Northwest Corner of Property

**STATIC WATER LEVEL:** 24.76 ft. (TOC)

**DATE OF TEST:** December 7 & 8, 1994

**DATA COLLECTION METHOD:** Hand

**TOTAL PUMPING TIME:** 1470 min

Date	Time (HH:MM)	"t" Elapsed Time * (min)	"t" Time Since Pump Shut Off (min)	Depth to Water (feet)	Residual Drawdown (feet)
12/07/94	1109	1509	39	24.71	-0.05
12/07/94	1210	1570	100	24.56	-0.20
12/07/94	1321	1641	171	24.50	-0.26
12/07/94	1414	1694	224	24.49	-0.27
12/07/94	1513	1753	283	24.46	-0.30
12/07/94	1616	1816	346	24.47	-0.29
12/07/94	1736	1896	426	24.45	-0.31
12/07/94	1812	1932	462	24.44	-0.32
12/07/94	1908	1988	518	24.43	-0.33
12/07/94	2017	2057	587	24.42	-0.34
12/07/94	2113	2113	643	24.40	-0.36
12/07/94	2210	2170	700	24.41	-0.35
12/08/94	757	2757	1287	24.31	-0.45

\*Elapsed time = Time since pumping began

# PUMPING TEST

**WELL NO.: SW6**

**DATE OF TEST: December 6 & 7, 1994**

**LOCATION: Parking Lot, West of Plant**

**DATA COLLECTION METHOD: CR10**

**STATIC WATER LEVEL: 18.99 ft. (TOC)**

**DISTANCE TO PUMPING WELL: 490 ft.**

Date	Time (HH:MM)	Elapsed Time (min)	Depth to Water (feet)	Corrected Drawdown * (feet)
12/06/94	1000	0	18.99	0.00
12/06/94	1000	0.5	18.99	0.00
12/06/94	1000	1	18.99	0.00
12/06/94	1001	1.5	18.99	0.00
12/06/94	1001	2	18.99	0.00
12/06/94	1002	2.5	18.99	0.00
12/06/94	1002	3	18.99	0.00
12/06/94	1003	3.5	18.99	0.00
12/06/94	1003	4	18.99	0.00
12/06/94	1004	4.5	18.99	0.00
12/06/94	1004	5	18.99	0.00
12/06/94	1005	5.5	18.99	0.00
12/06/94	1005	6	18.99	0.00
12/06/94	1006	6.5	18.99	0.00
12/06/94	1006	7	18.99	0.00
12/06/94	1007	7.5	18.99	0.00
12/06/94	1007	8	18.99	0.00
12/06/94	1008	8.5	18.99	0.00
12/06/94	1008	9	18.99	0.00
12/06/94	1009	9.5	18.99	0.00
12/06/94	1010	10.5	18.99	0.00
12/06/94	1015	15.5	18.98	-0.01
12/06/94	1020	20.5	18.99	0.00
12/06/94	1025	25.5	18.99	0.00
12/06/94	1030	30.5	18.98	-0.01
12/06/94	1035	35.5	18.99	0.00
12/06/94	1040	40.5	18.98	-0.01
12/06/94	1045	45.5	18.99	0.00
12/06/94	1050	50.5	18.98	-0.01
12/06/94	1055	55.5	18.98	-0.01
12/06/94	1100	60.5	18.98	-0.01
12/06/94	1105	65.5	18.97	-0.02
12/06/94	1110	70.5	18.97	-0.02
12/06/94	1115	75.5	18.97	-0.02
12/06/94	1120	80.5	18.98	-0.01
12/06/94	1125	85.5	18.98	-0.01
12/06/94	1130	90.5	18.98	-0.01
12/06/94	1135	95.5	18.97	-0.02
12/06/94	1140	100.5	18.97	-0.02
12/06/94	1145	105.5	18.97	-0.02
12/06/94	1150	110.5	18.97	-0.02
12/06/94	1155	115.5	18.97	-0.02
12/06/94	1200	120.5	18.97	-0.02
12/06/94	1210	130.5	18.96	-0.03
12/06/94	1220	140.5	18.96	-0.03
12/06/94	1230	150.5	18.96	-0.03
12/06/94	1240	160.5	18.95	-0.04

# PUMPING TEST

**WELL NO.: SW6**

**DATE OF TEST: December 6 & 7, 1994**

**LOCATION: Parking Lot, West of Plant**

**DATA COLLECTION METHOD: CR10**

**STATIC WATER LEVEL: 18.99 ft. (TOC)**

**DISTANCE TO PUMPING WELL: 490 ft.**

Date	Time (HH:MM)	Elapsed Time (min)	Depth to Water (feet)	Corrected Drawdown * (feet)
12/06/94	1250	170.5	18.96	-0.03
12/06/94	1300	180.5	18.95	-0.04
12/06/94	1310	190.5	18.95	-0.04
12/06/94	1320	200.5	18.95	-0.04
12/06/94	1330	210.5	18.95	-0.04
12/06/94	1340	220.5	18.95	-0.04
12/06/94	1350	230.5	18.95	-0.04
12/06/94	1400	240.5	18.95	-0.04
12/06/94	1410	250.5	18.94	-0.05
12/06/94	1420	260.5	18.94	-0.05
12/06/94	1430	270.5	18.93	-0.06
12/06/94	1440	280.5	18.94	-0.05
12/06/94	1450	290.5	18.93	-0.06
12/06/94	1500	300.5	18.93	-0.06
12/06/94	1510	310.5	18.93	-0.06
12/06/94	1520	320.5	18.93	-0.06
12/06/94	1530	330.5	18.92	-0.07
12/06/94	1540	340.5	18.92	-0.07
12/06/94	1550	350.5	18.92	-0.07
12/06/94	1600	360.5	18.91	-0.08
12/06/94	1610	370.5	18.92	-0.07
12/06/94	1620	380.5	18.91	-0.08
12/06/94	1630	390.5	18.91	-0.08
12/06/94	1640	400.5	18.90	-0.09
12/06/94	1650	410.5	18.91	-0.08
12/06/94	1700	420.5	18.90	-0.09
12/06/94	1710	430.5	18.90	-0.09
12/06/94	1720	440.5	18.90	-0.09
12/06/94	1730	450.5	18.89	-0.10
12/06/94	1740	460.5	18.90	-0.09
12/06/94	1750	470.5	18.90	-0.09
12/06/94	1800	480.5	18.89	-0.10
12/06/94	1810	490.5	18.89	-0.10
12/06/94	1820	500.5	18.89	-0.10
12/06/94	1830	510.5	18.89	-0.10
12/06/94	1840	520.5	18.89	-0.10
12/06/94	1850	530.5	18.88	-0.11
12/06/94	1900	540.5	18.88	-0.11
12/06/94	1910	550.5	18.88	-0.11
12/06/94	1920	560.5	18.86	-0.13
12/06/94	1930	570.5	18.87	-0.12
12/06/94	1940	580.5	18.86	-0.13
12/06/94	1950	590.5	18.87	-0.12
12/06/94	2000	600.5	18.86	-0.13
12/06/94	2010	610.5	18.86	-0.13
12/06/94	2020	620.5	18.86	-0.13
12/06/94	2030	630.5	18.85	-0.14



# PUMPING TEST

**WELL NO.:** SW6

**DATE OF TEST:** December 6 & 7, 1994

**LOCATION:** Parking Lot, West of Plant

**DATA COLLECTION METHOD:** CR10

**STATIC WATER LEVEL:** 18.99 ft. (TOC)

**DISTANCE TO PUMPING WELL:** 490 ft.

Date	Time (HH:MM)	Elapsed Time (min)	Depth to Water (feet)	Corrected Drawdown * (feet)
12/06/94	2040	640.5	18.86	-0.13
12/06/94	2050	650.5	18.86	-0.13
12/06/94	2100	660.5	18.85	-0.14
12/06/94	2110	670.5	18.84	-0.15
12/06/94	2120	680.5	18.84	-0.15
12/06/94	2130	690.5	18.84	-0.15
12/06/94	2140	701	18.85	-0.14
12/06/94	2150	711	18.84	-0.15
12/06/94	2200	721	18.83	-0.16
12/06/94	2210	731	18.83	-0.16
12/06/94	2220	741	18.84	-0.15
12/06/94	2230	751	18.83	-0.16
12/06/94	2240	761	18.83	-0.16
12/06/94	2250	771	18.82	-0.17
12/06/94	2300	781	18.83	-0.16
12/06/94	2310	791	18.82	-0.17
12/06/94	2320	801	18.82	-0.17
12/06/94	2330	811	18.82	-0.17
12/06/94	2340	821	18.81	-0.18
12/06/94	2350	831	18.82	-0.17
12/07/94	0	841	18.81	-0.18
12/07/94	10	851	18.81	-0.18
12/07/94	20	861	18.80	-0.19
12/07/94	30	871	18.80	-0.19
12/07/94	40	881	18.80	-0.19
12/07/94	50	891	18.79	-0.20
12/07/94	100	901	18.79	-0.20
12/07/94	110	911	18.80	-0.19
12/07/94	120	921	18.79	-0.20
12/07/94	130	931	18.79	-0.20
12/07/94	140	941	18.79	-0.20
12/07/94	150	951	18.78	-0.21
12/07/94	200	961	18.78	-0.21
12/07/94	210	971	18.78	-0.21
12/07/94	220	981	18.78	-0.21
12/07/94	230	991	18.77	-0.22
12/07/94	240	1001	18.77	-0.22
12/07/94	250	1011	18.77	-0.22
12/07/94	300	1021	18.77	-0.22
12/07/94	310	1031	18.76	-0.23
12/07/94	320	1041	18.76	-0.23
12/07/94	330	1051	18.76	-0.23
12/07/94	340	1061	18.76	-0.23
12/07/94	350	1071	18.75	-0.24
12/07/94	400	1081	18.76	-0.23
12/07/94	410	1091	18.74	-0.25
12/07/94	420	1101	18.74	-0.25

# PUMPING TEST

**WELL NO.:** SW6

**DATE OF TEST:** December 6 & 7, 1994

**LOCATION:** Parking Lot, West of Plant

**DATA COLLECTION METHOD:** CR10

**STATIC WATER LEVEL:** 18.99 ft. (TOC)

**DISTANCE TO PUMPING WELL:** 490 ft.

Date	Time (HH:MM)	Elapsed Time (min)	Depth to Water (feet)	Corrected Drawdown * (feet)
12/07/94	430	1111	18.74	-0.25
12/07/94	440	1121	18.74	-0.25
12/07/94	450	1131	18.74	-0.25
12/07/94	500	1141	18.73	-0.26
12/07/94	510	1151	18.72	-0.27
12/07/94	520	1161	18.73	-0.26
12/07/94	530	1171	18.72	-0.27
12/07/94	540	1181	18.72	-0.27
12/07/94	550	1191	18.72	-0.27
12/07/94	600	1201	18.73	-0.26
12/07/94	610	1211	18.72	-0.27
12/07/94	620	1221	18.72	-0.27
12/07/94	630	1231	18.72	-0.27
12/07/94	640	1241	18.71	-0.28
12/07/94	650	1251	18.70	-0.29
12/07/94	700	1261	18.71	-0.28
12/07/94	710	1271	18.69	-0.30
12/07/94	720	1281	18.70	-0.29
12/07/94	730	1291	18.70	-0.29
12/07/94	740	1301	18.70	-0.29
12/07/94	750	1311	18.69	-0.30
12/07/94	800	1321	18.69	-0.30
12/07/94	810	1331	18.68	-0.31
12/07/94	820	1341	18.68	-0.31
12/07/94	830	1351	18.68	-0.31
12/07/94	840	1361	18.67	-0.32
12/07/94	850	1371	18.67	-0.32
12/07/94	900	1381	18.67	-0.32
12/07/94	910	1391	18.66	-0.33

\* Corrected drawdown = Change in drawdown (ft.) + change in atmospheric pressure (ft.)  
 Calculation is necessary for CR10 transducers only

# RECOVERY TEST

**WELL NO.: SW6**

**DATE OF TEST: December 7 & 8, 1994**

**LOCATION: Rear Parking Lot, West of Plant**

**DATA COLLECTION METHOD: CR10**

**STATIC WATER LEVEL: 18.99 ft. (TOC)**

**TOTAL PUMPING TIME: 1470 min**

Date	Time (HH:MM)	"t" Elapsed Time * (min)	"t" Time Since Pump Shut Off (min)	Depth to Water (feet)	Residual Drawdown (feet)
12/07/94	1030	1470	0	18.64	-0.35
12/07/94	1030	1470.5	0.5	18.64	-0.35
12/07/94	1031	1471	1	18.64	-0.35
12/07/94	1031	1471.5	1.5	18.64	-0.35
12/07/94	1032	1472	2	18.64	-0.35
12/07/94	1032	1472.5	2.5	18.64	-0.35
12/07/94	1033	1473	3	18.64	-0.35
12/07/94	1033	1473.5	3.5	18.64	-0.35
12/07/94	1034	1474	4	18.64	-0.35
12/07/94	1034	1474.5	4.5	18.63	-0.36
12/07/94	1035	1475	5	18.64	-0.35
12/07/94	1035	1475.5	5.5	18.64	-0.35
12/07/94	1036	1476	6	18.64	-0.35
12/07/94	1036	1476.5	6.5	18.64	-0.35
12/07/94	1037	1477	7	18.64	-0.35
12/07/94	1037	1477.5	7.5	18.63	-0.36
12/07/94	1038	1478	8	18.64	-0.35
12/07/94	1038	1478.5	8.5	18.64	-0.35
12/07/94	1039	1479	9	18.64	-0.35
12/07/94	1039	1479.5	9.5	18.64	-0.35
12/07/94	1040	1480	10	18.64	-0.35
12/07/94	1045	1485	15	18.64	-0.35
12/07/94	1050	1490	20	18.63	-0.36
12/07/94	1055	1495	25	18.63	-0.36
12/07/94	1100	1500	30	18.63	-0.36
12/07/94	1105	1505	35	18.63	-0.36
12/07/94	1110	1510	40	18.63	-0.36
12/07/94	1115	1515	45	18.63	-0.36
12/07/94	1120	1520	50	18.63	-0.36
12/07/94	1125	1525	55	18.63	-0.36
12/07/94	1130	1530	60	18.62	-0.37
12/07/94	1135	1535	65	18.62	-0.37
12/07/94	1140	1540	70	18.62	-0.37
12/07/94	1145	1545	75	18.62	-0.37
12/07/94	1150	1550	80	18.61	-0.38
12/07/94	1155	1555	85	18.61	-0.38
12/07/94	1200	1560	90	18.61	-0.38
12/07/94	1205	1565	95	18.61	-0.38
12/07/94	1210	1570	100	18.61	-0.38
12/07/94	1215	1575	105	18.61	-0.39
12/07/94	1220	1580	110	18.60	-0.39
12/07/94	1225	1585	115	18.60	-0.39
12/07/94	1230	1590	120	18.60	-0.39
12/07/94	1240	1600	130	18.60	-0.39
12/07/94	1250	1610	140	18.60	-0.39
12/07/94	1300	1620	150	18.59	-0.40
12/07/94	1310	1630	160	18.59	-0.40

# RECOVERY TEST

**WELL NO.: SW6**

**DATE OF TEST:** December 7 & 8, 1994

**LOCATION:** Rear Parking Lot, West of Plant

**DATA COLLECTION METHOD:** CR10

**STATIC WATER LEVEL:** 18.99 ft. (TOC)

**TOTAL PUMPING TIME:** 1470 min

Date	Time (HH:MM)	Elapsed Time * (min)	Time Since Pump Shut Off (min)	Depth to Water (feet)	Residual Drawdown (feet)
12/07/94	1320	1640	170	18.59	-0.41
12/07/94	1330	1650	180	18.58	-0.41
12/07/94	1340	1660	190	18.58	-0.42
12/07/94	1350	1670	200	18.58	-0.42
12/07/94	1400	1680	210	18.57	-0.42
12/07/94	1410	1690	220	18.57	-0.42
12/07/94	1420	1700	230	18.57	-0.42
12/07/94	1430	1710	240	18.56	-0.43
12/07/94	1440	1720	250	18.56	-0.43
12/07/94	1450	1730	260	18.56	-0.43
12/07/94	1500	1740	270	18.55	-0.44
12/07/94	1510	1750	280	18.56	-0.44
12/07/94	1520	1760	290	18.55	-0.44
12/07/94	1530	1770	300	18.54	-0.45
12/07/94	1540	1780	310	18.55	-0.45
12/07/94	1550	1790	320	18.54	-0.45
12/07/94	1600	1800	330	18.54	-0.45
12/07/94	1610	1810	340	18.54	-0.46
12/07/94	1620	1820	350	18.53	-0.46
12/07/94	1630	1830	360	18.53	-0.46
12/07/94	1640	1840	370	18.53	-0.46
12/07/94	1650	1850	380	18.53	-0.46
12/07/94	1700	1860	390	18.52	-0.47
12/07/94	1710	1870	400	18.52	-0.47
12/07/94	1720	1880	410	18.52	-0.47
12/07/94	1730	1890	420	18.52	-0.47
12/07/94	1740	1900	430	18.51	-0.48
12/07/94	1750	1910	440	18.51	-0.48
12/07/94	1800	1920	450	18.51	-0.48
12/07/94	1810	1930	460	18.51	-0.48
12/07/94	1820	1940	470	18.51	-0.48
12/07/94	1830	1950	480	18.50	-0.49
12/07/94	1840	1960	490	18.50	-0.49
12/07/94	1850	1970	500	18.50	-0.50
12/07/94	1900	1980	510	18.49	-0.50
12/07/94	1910	1990	520	18.49	-0.50
12/07/94	1920	2000	530	18.49	-0.50
12/07/94	1930	2010	540	18.48	-0.51
12/07/94	1940	2020	550	18.48	-0.51
12/07/94	1950	2030	560	18.48	-0.51
12/07/94	2000	2040	570	18.48	-0.51
12/07/94	2010	2050	580	18.47	-0.52
12/07/94	2020	2060	590	18.47	-0.52
12/07/94	2030	2070	600	18.47	-0.52
12/07/94	2040	2080	610	18.47	-0.52
12/07/94	2050	2090	620	18.46	-0.53
12/07/94	2100	2100	630	18.46	-0.53

# RECOVERY TEST

**WELL NO.: SW6**

**DATE OF TEST:** December 7 & 8, 1994

**LOCATION:** Rear Parking Lot, West of Plant

**DATA COLLECTION METHOD:** CR10

**STATIC WATER LEVEL:** 18.99 ft. (TOC)

**TOTAL PUMPING TIME:** 1470 min

Date	Time (HH:MM)	"t" Elapsed Time * (min)	"t" Time Since Pump Shut Off (min)	Depth to Water (feet)	Residual Drawdown (feet)
12/07/94	2110	2110	640	18.46	-0.53
12/07/94	2120	2120	650	18.46	-0.54
12/07/94	2130	2130	660	18.45	-0.54
12/07/94	2140	2140	670	18.45	-0.54
12/07/94	2150	2150	680	18.45	-0.55
12/07/94	2200	2160	690	18.45	-0.54
12/07/94	2210	2170	700	18.45	-0.55
12/07/94	2220	2180	710	18.44	-0.55
12/07/94	2230	2190	720	18.44	-0.55
12/07/94	2240	2200	730	18.43	-0.56
12/07/94	2250	2210	740	18.43	-0.56
12/07/94	2300	2220	750	18.43	-0.56
12/07/94	2310	2230	760	18.42	-0.57
12/07/94	2320	2240	770	18.42	-0.57
12/07/94	2330	2250	780	18.42	-0.57
12/07/94	2340	2260	790	18.42	-0.57
12/07/94	2350	2270	800	18.42	-0.57
12/08/94	0	2280	810	18.41	-0.58
12/08/94	10	2290	820	18.41	-0.58
12/08/94	20	2300	830	18.41	-0.59
12/08/94	30	2310	840	18.40	-0.59
12/08/94	40	2320	850	18.40	-0.59
12/08/94	50	2330	860	18.40	-0.59
12/08/94	100	2340	870	18.40	-0.60
12/08/94	110	2350	880	18.40	-0.60
12/08/94	120	2360	890	18.39	-0.60
12/08/94	130	2370	900	18.39	-0.60
12/08/94	140	2380	910	18.39	-0.60
12/08/94	150	2390	920	18.38	-0.61
12/08/94	200	2400	930	18.38	-0.61
12/08/94	210	2410	940	18.37	-0.62
12/08/94	220	2420	950	18.37	-0.62
12/08/94	230	2430	960	18.37	-0.62
12/08/94	240	2440	970	18.37	-0.62
12/08/94	250	2450	980	18.36	-0.63
12/08/94	300	2460	990	18.36	-0.63
12/08/94	310	2470	1000	18.36	-0.63
12/08/94	320	2480	1010	18.35	-0.64
12/08/94	330	2490	1020	18.36	-0.63
12/08/94	340	2500	1030	18.35	-0.64
12/08/94	350	2510	1040	18.35	-0.64
12/08/94	400	2520	1050	18.35	-0.64
12/08/94	410	2530	1060	18.34	-0.65
12/08/94	420	2540	1070	18.34	-0.65
12/08/94	430	2550	1080	18.34	-0.65
12/08/94	440	2560	1090	18.33	-0.66
12/08/94	450	2570	1100	18.33	-0.66

## RECOVERY TEST

**WELL NO.: SW6**

**DATE OF TEST: December 7 & 8, 1994**

**LOCATION: Rear Parking Lot, West of Plant**

**DATA COLLECTION METHOD: CR10**

**STATIC WATER LEVEL: 18.99 ft. (TOC)**

**TOTAL PUMPING TIME: 1470 min**

Date	Time (HH:MM)	"t" Elapsed Time * (min)	"t" Time Since Pump Shut Off (min)	Depth to Water (feet)	Residual Drawdown (feet)
12/08/94	500	2580	1110	18.33	-0.66
12/08/94	510	2590	1120	18.33	-0.66
12/08/94	520	2600	1130	18.32	-0.67
12/08/94	530	2610	1140	18.32	-0.67
12/08/94	540	2620	1150	18.32	-0.67
12/08/94	550	2630	1160	18.31	-0.68
12/08/94	600	2640	1170	18.31	-0.68
12/08/94	610	2650	1180	18.31	-0.68
12/08/94	620	2660	1190	18.31	-0.68
12/08/94	630	2670	1200	18.31	-0.68
12/08/94	640	2680	1210	18.30	-0.69
12/08/94	650	2690	1220	18.30	-0.69
12/08/94	700	2700	1230	18.30	-0.69
12/08/94	710	2710	1240	18.29	-0.70
12/08/94	720	2720	1250	18.29	-0.70
12/08/94	730	2730	1260	18.29	-0.70
12/08/94	740	2740	1270	18.29	-0.70
12/08/94	750	2750	1280	18.29	-0.70
12/08/94	800	2760	1290	18.28	-0.71
12/08/94	810	2770	1300	18.28	-0.71
12/08/94	820	2780	1310	18.28	-0.71
12/08/94	830	2790	1320	18.27	-0.72
12/08/94	840	2800	1330	18.27	-0.72
12/08/94	850	2810	1340	18.27	-0.72
12/08/94	900	2820	1350	18.27	-0.72
12/08/94	910	2830	1360	18.26	-0.73
12/08/94	920	2840	1370	18.26	-0.73
12/08/94	930	2850	1380	18.26	-0.73
12/08/94	940	2860	1390	18.26	-0.73
12/08/94	950	2870	1400	18.25	-0.74
12/08/94	1000	2880	1410	18.26	-0.73
12/08/94	1010	2890	1420	18.25	-0.74
12/08/94	1020	2900	1430	18.25	-0.74

\* Elapsed Time = Time since pumping test began

# PUMPING TEST

**WELL NO.:** DW6

**DATE OF TEST:** December 6 & 7, 1994

**LOCATION:** Parking Lot, West of Plant

**DATA COLLECTION METHOD:** CR10

**STATIC WATER LEVEL:** 18.29 ft. (TOC)

**DISTANCE TO PUMPING WELL:** 490 ft.

Date	Time (HH:MM)	Elapsed Time (min)	Depth to Water (feet)	Corrected Drawdown * (feet)
12/06/94	1000	0	18.29	0.00
12/06/94	1000	0.5	18.29	0.00
12/06/94	1000	1	18.29	0.00
12/06/94	1001	1.5	18.28	-0.01
12/06/94	1001	2	18.29	0.00
12/06/94	1002	2.5	18.29	0.00
12/06/94	1002	3	18.28	-0.01
12/06/94	1003	3.5	18.29	0.00
12/06/94	1003	4	18.29	0.00
12/06/94	1004	4.5	18.29	0.00
12/06/94	1004	5	18.29	0.00
12/06/94	1005	5.5	18.29	0.00
12/06/94	1005	6	18.29	0.00
12/06/94	1006	6.5	18.29	0.00
12/06/94	1006	7	18.29	0.00
12/06/94	1007	7.5	18.29	0.00
12/06/94	1007	8	18.29	0.00
12/06/94	1008	8.5	18.29	0.00
12/06/94	1008	9	18.29	0.00
12/06/94	1009	9.5	18.29	0.00
12/06/94	1010	10.5	18.29	0.00
12/06/94	1015	15.5	18.29	0.00
12/06/94	1020	20.5	18.32	0.03
12/06/94	1025	25.5	18.33	0.04
12/06/94	1030	30.5	18.35	0.06
12/06/94	1035	35.5	18.39	0.10
12/06/94	1040	40.5	18.41	0.12
12/06/94	1045	45.5	18.45	0.16
12/06/94	1050	50.5	18.47	0.18
12/06/94	1055	55.5	18.50	0.21
12/06/94	1100	60.5	18.54	0.25
12/06/94	1105	65.5	18.56	0.27
12/06/94	1110	70.5	18.60	0.31
12/06/94	1115	75.5	18.63	0.34
12/06/94	1120	80.5	18.66	0.37
12/06/94	1125	85.5	18.68	0.39
12/06/94	1130	90.5	18.71	0.42
12/06/94	1135	95.5	18.73	0.44
12/06/94	1140	100.5	18.75	0.46
12/06/94	1145	105.5	18.77	0.48
12/06/94	1150	110.5	18.78	0.49
12/06/94	1155	115.5	18.79	0.50
12/06/94	1200	120.5	18.81	0.52
12/06/94	1210	130.5	18.84	0.55
12/06/94	1220	140.5	18.86	0.57
12/06/94	1230	150.5	18.88	0.59
12/06/94	1240	160.5	18.88	0.59

# PUMPING TEST

**WELL NO.:** DW6

**DATE OF TEST:** December 6 & 7, 1994

**LOCATION:** Parking Lot, West of Plant

**DATA COLLECTION METHOD:** CR10

**STATIC WATER LEVEL:** 18.29 ft. (TOC)

**DISTANCE TO PUMPING WELL:** 490 ft.

Date	Time (HH:MM)	Elapsed Time (min)	Depth to Water (feet)	Corrected Drawdown * (feet)
12/06/94	1250	170.5	18.90	0.61
12/06/94	1300	180.5	18.90	0.61
12/06/94	1310	190.5	18.91	0.62
12/06/94	1320	200.5	18.92	0.63
12/06/94	1330	210.5	18.92	0.63
12/06/94	1340	220.5	18.93	0.64
12/06/94	1350	230.5	18.93	0.64
12/06/94	1400	240.5	18.93	0.64
12/06/94	1410	250.5	18.93	0.64
12/06/94	1420	260.5	18.94	0.65
12/06/94	1430	270.5	18.93	0.64
12/06/94	1440	280.5	18.94	0.65
12/06/94	1450	290.5	18.94	0.65
12/06/94	1500	300.5	18.93	0.64
12/06/94	1510	310.5	18.93	0.64
12/06/94	1520	320.5	18.94	0.65
12/06/94	1530	330.5	18.93	0.64
12/06/94	1540	340.5	18.93	0.64
12/06/94	1550	350.5	18.93	0.64
12/06/94	1600	360.5	18.92	0.63
12/06/94	1610	370.5	18.93	0.64
12/06/94	1620	380.5	18.93	0.64
12/06/94	1630	390.5	18.92	0.63
12/06/94	1640	400.5	18.92	0.63
12/06/94	1650	410.5	18.93	0.64
12/06/94	1700	420.5	18.92	0.63
12/06/94	1710	430.5	18.93	0.64
12/06/94	1720	440.5	18.92	0.63
12/06/94	1730	450.5	18.92	0.63
12/06/94	1740	460.5	18.93	0.64
12/06/94	1750	470.5	18.92	0.63
12/06/94	1800	480.5	18.92	0.63
12/06/94	1810	490.5	18.92	0.63
12/06/94	1820	500.5	18.91	0.62
12/06/94	1830	510.5	18.91	0.62
12/06/94	1840	520.5	18.91	0.62
12/06/94	1850	530.5	18.90	0.61
12/06/94	1900	540.5	18.90	0.61
12/06/94	1910	550.5	18.90	0.61
12/06/94	1920	560.5	18.89	0.60
12/06/94	1930	570.5	18.89	0.60
12/06/94	1940	580.5	18.89	0.60
12/06/94	1950	590.5	18.89	0.60
12/06/94	2000	600.5	18.89	0.60
12/06/94	2010	610.5	18.89	0.60
12/06/94	2020	620.5	18.89	0.60
12/06/94	2030	630.5	18.88	0.59



## PUMPING TEST

**WELL NO.:** DW6

**LOCATION:** Parking Lot, West of Plant

**STATIC WATER LEVEL:** 18.29 ft. (TOC)

**DATE OF TEST:** December 6 & 7, 1994

**DATA COLLECTION METHOD:** CR10

**DISTANCE TO PUMPING WELL:** 490 ft.

Date	Time (HH:MM)	Elapsed Time (min)	Depth to Water (feet)	Corrected Drawdown * (feet)
12/06/94	2040	640.5	18.88	0.59
12/06/94	2050	650.5	18.88	0.59
12/06/94	2100	660.5	18.88	0.59
12/06/94	2110	670.5	18.87	0.58
12/06/94	2120	680.5	18.87	0.58
12/06/94	2130	690.5	18.87	0.58
12/06/94	2140	701	18.88	0.59
12/06/94	2150	711	18.87	0.58
12/06/94	2200	721	18.86	0.57
12/06/94	2210	731	18.86	0.57
12/06/94	2220	741	18.86	0.57
12/06/94	2230	751	18.86	0.57
12/06/94	2240	761	18.86	0.57
12/06/94	2250	771	18.85	0.56
12/06/94	2300	781	18.86	0.57
12/06/94	2310	791	18.85	0.56
12/06/94	2320	801	18.85	0.56
12/06/94	2330	811	18.85	0.56
12/06/94	2340	821	18.85	0.56
12/06/94	2350	831	18.86	0.57
12/07/94	0	841	18.86	0.57
12/07/94	10	851	18.85	0.56
12/07/94	20	861	18.85	0.56
12/07/94	30	871	18.85	0.56
12/07/94	40	881	18.86	0.57
12/07/94	50	891	18.85	0.56
12/07/94	100	901	18.85	0.56
12/07/94	110	911	18.86	0.57
12/07/94	120	921	18.86	0.57
12/07/94	130	931	18.86	0.57
12/07/94	140	941	18.86	0.57
12/07/94	150	951	18.85	0.56
12/07/94	200	961	18.86	0.57
12/07/94	210	971	18.85	0.56
12/07/94	220	981	18.85	0.56
12/07/94	230	991	18.84	0.55
12/07/94	240	1001	18.85	0.56
12/07/94	250	1011	18.85	0.56
12/07/94	300	1021	18.85	0.56
12/07/94	310	1031	18.85	0.56
12/07/94	320	1041	18.84	0.55
12/07/94	330	1051	18.84	0.55
12/07/94	340	1061	18.84	0.55
12/07/94	350	1071	18.83	0.54
12/07/94	400	1081	18.84	0.55
12/07/94	410	1091	18.82	0.53
12/07/94	420	1101	18.83	0.54

# PUMPING TEST

**WELL NO.:** DW6

**LOCATION:** Parking Lot, West of Plant

**STATIC WATER LEVEL:** 18.29 ft. (TOC)

**DATE OF TEST:** December 6 & 7, 1994

**DATA COLLECTION METHOD:** CR10

**DISTANCE TO PUMPING WELL:** 490 ft.

Date	Time (HH:MM)	Elapsed Time (min)	Depth to Water (feet)	Corrected Drawdown * (feet)
12/07/94	430	1111	18.82	0.53
12/07/94	440	1121	18.82	0.53
12/07/94	450	1131	18.83	0.54
12/07/94	500	1141	18.82	0.53
12/07/94	510	1151	18.81	0.52
12/07/94	520	1161	18.82	0.53
12/07/94	530	1171	18.81	0.52
12/07/94	540	1181	18.81	0.52
12/07/94	550	1191	18.81	0.52
12/07/94	600	1201	18.82	0.53
12/07/94	610	1211	18.81	0.52
12/07/94	620	1221	18.81	0.52
12/07/94	630	1231	18.81	0.52
12/07/94	640	1241	18.80	0.51
12/07/94	650	1251	18.80	0.51
12/07/94	700	1261	18.81	0.52
12/07/94	710	1271	18.79	0.50
12/07/94	720	1281	18.79	0.50
12/07/94	730	1291	18.80	0.51
12/07/94	740	1301	18.79	0.50
12/07/94	750	1311	18.78	0.49
12/07/94	800	1321	18.78	0.49
12/07/94	810	1331	18.78	0.49
12/07/94	820	1341	18.78	0.49
12/07/94	830	1351	18.77	0.48
12/07/94	840	1361	18.76	0.47
12/07/94	850	1371	18.06	-0.23
12/07/94	900	1381	16.37	-1.92
12/07/94	910	1391	15.85	-2.44

\* Corrected drawdown = Change in drawdown (ft.) + change in atmospheric pressure (ft.)  
Calculation is necessary for CR10 transducers only

## RECOVERY TEST

**WELL NO.: DW6**

**DATE OF TEST: December 7 & 8, 1994**

**LOCATION: Rear Parking Lot, West of Plant**

**DATA COLLECTION METHOD: CR10**

**STATIC WATER LEVEL: 18.29 ft. (TOC)**

**TOTAL PUMPING TIME: 1470 min**

Date	Time (HH:MM)	"t" Elapsed Time * (min)	"t" Time Since Pump Shut Off (min)	Depth to Water (feet)	Residual Drawdown (feet)
12/07/94	1030	1470	0	18.06	-0.23
12/07/94	1030	1470.5	0.5	18.08	-0.21
12/07/94	1031	1471	1	18.08	-0.21
12/07/94	1031	1471.5	1.5	18.09	-0.21
12/07/94	1032	1472	2	18.09	-0.20
12/07/94	1032	1472.5	2.5	18.09	-0.20
12/07/94	1033	1473	3	18.10	-0.19
12/07/94	1033	1473.5	3.5	18.10	-0.19
12/07/94	1034	1474	4	18.11	-0.18
12/07/94	1034	1474.5	4.5	18.11	-0.18
12/07/94	1035	1475	5	18.12	-0.17
12/07/94	1035	1475.5	5.5	18.12	-0.17
12/07/94	1036	1476	6	18.12	-0.17
12/07/94	1036	1476.5	6.5	18.13	-0.16
12/07/94	1037	1477	7	18.13	-0.16
12/07/94	1037	1477.5	7.5	18.14	-0.15
12/07/94	1038	1478	8	18.14	-0.15
12/07/94	1038	1478.5	8.5	18.14	-0.15
12/07/94	1039	1479	9	18.15	-0.14
12/07/94	1039	1479.5	9.5	18.15	-0.14
12/07/94	1040	1480	10	18.16	-0.13
12/07/94	1045	1485	15	18.19	-0.10
12/07/94	1050	1490	20	18.20	-0.09
12/07/94	1055	1495	25	18.21	-0.08
12/07/94	1100	1500	30	18.21	-0.08
12/07/94	1105	1505	35	18.20	-0.09
12/07/94	1110	1510	40	18.19	-0.10
12/07/94	1115	1515	45	18.17	-0.12
12/07/94	1120	1520	50	18.14	-0.15
12/07/94	1125	1525	55	18.13	-0.17
12/07/94	1130	1530	60	18.10	-0.19
12/07/94	1135	1535	65	18.07	-0.22
12/07/94	1140	1540	70	18.05	-0.24
12/07/94	1145	1545	75	18.02	-0.27
12/07/94	1150	1550	80	18.00	-0.29
12/07/94	1155	1555	85	17.98	-0.31
12/07/94	1200	1560	90	17.96	-0.33
12/07/94	1205	1565	95	17.94	-0.35
12/07/94	1210	1570	100	17.92	-0.37
12/07/94	1215	1575	105	17.90	-0.39
12/07/94	1220	1580	110	17.89	-0.40
12/07/94	1225	1585	115	17.87	-0.42
12/07/94	1230	1590	120	17.86	-0.43
12/07/94	1240	1600	130	17.84	-0.45
12/07/94	1250	1610	140	17.82	-0.47
12/07/94	1300	1620	150	17.80	-0.49
12/07/94	1310	1630	160	17.78	-0.51

# RECOVERY TEST

**WELL NO.: DW6**

**DATE OF TEST:** December 7 & 8, 1994

**LOCATION:** Rear Parking Lot, West of Plant

**DATA COLLECTION METHOD:** CR10

**STATIC WATER LEVEL:** 18.29 ft. (TOC)

**TOTAL PUMPING TIME:** 1470 min

Date	Time (HH:MM)	"t" Elapsed Time * (min)	"t" Time Since Pump Shut Off (min)	Depth to Water (feet)	Residual Drawdown (feet)
12/07/94	1320	1640	170	17.77	-0.52
12/07/94	1330	1650	180	17.76	-0.53
12/07/94	1340	1660	190	17.74	-0.55
12/07/94	1350	1670	200	17.74	-0.55
12/07/94	1400	1680	210	17.73	-0.56
12/07/94	1410	1690	220	17.73	-0.56
12/07/94	1420	1700	230	17.71	-0.58
12/07/94	1430	1710	240	17.71	-0.58
12/07/94	1440	1720	250	17.70	-0.59
12/07/94	1450	1730	260	17.70	-0.59
12/07/94	1500	1740	270	17.69	-0.60
12/07/94	1510	1750	280	17.70	-0.60
12/07/94	1520	1760	290	17.69	-0.60
12/07/94	1530	1770	300	17.67	-0.62
12/07/94	1540	1780	310	17.66	-0.63
12/07/94	1550	1790	320	17.66	-0.64
12/07/94	1600	1800	330	17.65	-0.64
12/07/94	1610	1810	340	17.64	-0.65
12/07/94	1620	1820	350	17.63	-0.66
12/07/94	1630	1830	360	17.64	-0.65
12/07/94	1640	1840	370	17.64	-0.65
12/07/94	1650	1850	380	17.65	-0.64
12/07/94	1700	1860	390	17.65	-0.64
12/07/94	1710	1870	400	17.65	-0.64
12/07/94	1720	1880	410	17.65	-0.64
12/07/94	1730	1890	420	17.65	-0.64
12/07/94	1740	1900	430	17.65	-0.64
12/07/94	1750	1910	440	17.64	-0.65
12/07/94	1800	1920	450	17.65	-0.64
12/07/94	1810	1930	460	17.64	-0.65
12/07/94	1820	1940	470	17.64	-0.65
12/07/94	1830	1950	480	17.63	-0.66
12/07/94	1840	1960	490	17.63	-0.66
12/07/94	1850	1970	500	17.63	-0.66
12/07/94	1900	1980	510	17.62	-0.67
12/07/94	1910	1990	520	17.62	-0.67
12/07/94	1920	2000	530	17.62	-0.67
12/07/94	1930	2010	540	17.61	-0.68
12/07/94	1940	2020	550	17.61	-0.68
12/07/94	1950	2030	560	17.61	-0.68
12/07/94	2000	2040	570	17.61	-0.68
12/07/94	2010	2050	580	17.61	-0.68
12/07/94	2020	2060	590	17.60	-0.69
12/07/94	2030	2070	600	17.60	-0.69
12/07/94	2040	2080	610	17.60	-0.69
12/07/94	2050	2090	620	17.60	-0.69
12/07/94	2100	2100	630	17.59	-0.70

## RECOVERY TEST

**WELL NO.: DW6**

**DATE OF TEST:** December 7 & 8, 1994

**LOCATION:** Rear Parking Lot, West of Plant

**DATA COLLECTION METHOD:** CR10

**STATIC WATER LEVEL:** 18.29 ft. (TOC)

**TOTAL PUMPING TIME:** 1470 min

Date	Time (HH:MM)	"t"	"t"	Depth to Water (feet)	Residual Drawdown (feet)
		Elapsed Time * (min)	Time Since Pump Shut Off (min)		
12/07/94	2110	2110	640	17.60	-0.69
12/07/94	2120	2120	650	17.59	-0.70
12/07/94	2130	2130	660	17.59	-0.70
12/07/94	2140	2140	670	17.59	-0.70
12/07/94	2150	2150	680	17.58	-0.71
12/07/94	2200	2160	690	17.58	-0.71
12/07/94	2210	2170	700	17.58	-0.71
12/07/94	2220	2180	710	17.58	-0.71
12/07/94	2230	2190	720	17.58	-0.71
12/07/94	2240	2200	730	17.57	-0.72
12/07/94	2250	2210	740	17.57	-0.72
12/07/94	2300	2220	750	17.57	-0.72
12/07/94	2310	2230	760	17.56	-0.73
12/07/94	2320	2240	770	17.56	-0.73
12/07/94	2330	2250	780	17.56	-0.73
12/07/94	2340	2260	790	17.56	-0.73
12/07/94	2350	2270	800	17.56	-0.73
12/08/94	0	2280	810	17.56	-0.73
12/08/94	10	2290	820	17.56	-0.73
12/08/94	20	2300	830	17.55	-0.74
12/08/94	30	2310	840	17.55	-0.74
12/08/94	40	2320	850	17.55	-0.74
12/08/94	50	2330	860	17.55	-0.74
12/08/94	100	2340	870	17.54	-0.75
12/08/94	110	2350	880	17.55	-0.74
12/08/94	120	2360	890	17.54	-0.75
12/08/94	130	2370	900	17.54	-0.75
12/08/94	140	2380	910	17.54	-0.75
12/08/94	150	2390	920	17.54	-0.75
12/08/94	200	2400	930	17.53	-0.76
12/08/94	210	2410	940	17.53	-0.76
12/08/94	220	2420	950	17.53	-0.76
12/08/94	230	2430	960	17.53	-0.76
12/08/94	240	2440	970	17.53	-0.76
12/08/94	250	2450	980	17.53	-0.76
12/08/94	300	2460	990	17.52	-0.77
12/08/94	310	2470	1000	17.52	-0.77
12/08/94	320	2480	1010	17.51	-0.78
12/08/94	330	2490	1020	17.52	-0.77
12/08/94	340	2500	1030	17.51	-0.78
12/08/94	350	2510	1040	17.51	-0.78
12/08/94	400	2520	1050	17.51	-0.78
12/08/94	410	2530	1060	17.50	-0.79
12/08/94	420	2540	1070	17.50	-0.79
12/08/94	430	2550	1080	17.50	-0.79
12/08/94	440	2560	1090	17.50	-0.79
12/08/94	450	2570	1100	17.49	-0.80

# RECOVERY TEST

**WELL NO.: DW6**

**DATE OF TEST:** December 7 & 8, 1994

**LOCATION:** Rear Parking Lot, West of Plant

**DATA COLLECTION METHOD:** CR10

**STATIC WATER LEVEL:** 18.29 ft. (TOC)

**TOTAL PUMPING TIME:** 1470 min

Date	Time (HH:MM)	Elapsed Time * (min)	Time Since Pump Shut Off (min)	Depth to Water (feet)	Residual Drawdown (feet)
12/08/94	500	2580	1110	17.49	-0.80
12/08/94	510	2590	1120	17.49	-0.80
12/08/94	520	2600	1130	17.48	-0.81
12/08/94	530	2610	1140	17.48	-0.81
12/08/94	540	2620	1150	17.48	-0.81
12/08/94	550	2630	1160	17.48	-0.81
12/08/94	600	2640	1170	17.47	-0.82
12/08/94	610	2650	1180	17.47	-0.82
12/08/94	620	2660	1190	17.47	-0.82
12/08/94	630	2670	1200	17.47	-0.82
12/08/94	640	2680	1210	17.46	-0.83
12/08/94	650	2690	1220	17.46	-0.83
12/08/94	700	2700	1230	17.46	-0.83
12/08/94	710	2710	1240	17.45	-0.84
12/08/94	720	2720	1250	17.45	-0.84
12/08/94	730	2730	1260	17.45	-0.84
12/08/94	740	2740	1270	17.44	-0.85
12/08/94	750	2750	1280	17.44	-0.85
12/08/94	800	2760	1290	17.44	-0.85
12/08/94	810	2770	1300	17.43	-0.86
12/08/94	820	2780	1310	17.43	-0.86
12/08/94	830	2790	1320	17.43	-0.86
12/08/94	840	2800	1330	17.42	-0.87
12/08/94	850	2810	1340	17.43	-0.86
12/08/94	900	2820	1350	17.43	-0.86
12/08/94	910	2830	1360	17.43	-0.86
12/08/94	920	2840	1370	17.43	-0.86
12/08/94	930	2850	1380	17.42	-0.87
12/08/94	940	2860	1390	17.42	-0.87
12/08/94	950	2870	1400	17.42	-0.87
12/08/94	1000	2880	1410	17.42	-0.87
12/08/94	1010	2890	1420	17.42	-0.87
12/08/94	1020	2900	1430	17.42	-0.87

\* Elapsed Time = Time since pumping test began

## PUMPING TEST

**WELL NO.: SW7**

**DATE OF TEST: December 6 & 7, 1994**

**LOCATION: Outside and Adjacent to DPW Room DATA COLLECTION METHOD: CR10**

**STATIC WATER LEVEL: 21.52 ft. (TOC)**

**DISTANCE TO PUMPING WELL: 15 ft.**

Date	Time (HH:MM)	Elapsed Time (min)	Depth to Water (feet)	Corrected Drawdown * (feet)
12/06/94	1000	0	21.52	0.00
12/06/94	1000	0.33	21.53	0.01
12/06/94	1000	0.67	21.52	0.00
12/06/94	1001	1	21.52	0.00
12/06/94	1002	2	21.53	0.01
12/06/94	1003	3	21.53	0.01
12/06/94	1004	4	21.52	0.00
12/06/94	1005	5	21.53	0.01
12/06/94	1006	6	21.53	0.01
12/06/94	1007	7	21.53	0.01
12/06/94	1008	8	21.54	0.02
12/06/94	1009	9	21.54	0.02
12/06/94	1010	10	21.54	0.02
12/06/94	1015	15	21.55	0.03
12/06/94	1020	20	21.55	0.03
12/06/94	1025	25	21.56	0.04
12/06/94	1030	30	21.55	0.03
12/06/94	1035	35	21.57	0.05
12/06/94	1040	40	21.56	0.04
12/06/94	1045	45	21.57	0.05
12/06/94	1050	50	21.56	0.04
12/06/94	1055	55	21.57	0.05
12/06/94	1100	60	21.58	0.06
12/06/94	1105	65	21.57	0.05
12/06/94	1110	70	21.58	0.06
12/06/94	1115	75	21.58	0.06
12/06/94	1120	80	21.58	0.06
12/06/94	1125	85	21.59	0.07
12/06/94	1130	90	21.60	0.08
12/06/94	1135	95	21.59	0.07
12/06/94	1140	100	21.59	0.07
12/06/94	1145	105	21.59	0.07
12/06/94	1150	110	21.59	0.07
12/06/94	1155	115	21.59	0.07
12/06/94	1200	120	21.59	0.07
12/06/94	1210	130	21.60	0.08
12/06/94	1220	140	21.60	0.08
12/06/94	1230	150	21.61	0.09
12/06/94	1240	160	21.60	0.08
12/06/94	1250	170	21.61	0.09
12/06/94	1300	180	21.60	0.08
12/06/94	1310	190	21.61	0.09
12/06/94	1320	200	21.61	0.09
12/06/94	1330	210	21.62	0.10

## PUMPING TEST

**WELL NO.: SW7**

**DATE OF TEST: December 6 & 7, 1994**

**LOCATION: Outside and Adjacent to DPW Room**

**DATA COLLECTION METHOD: GR10**

**STATIC WATER LEVEL: 21.52 ft (TOC)**

**DISTANCE TO PUMPING WELL: 15 ft**

<b>Date</b>	<b>Time (HH:MM)</b>	<b>Elapsed Time (min)</b>	<b>Depth to Water (feet)</b>	<b>Corrected Drawdown * (feet)</b>
12/06/94	1340	220	21.61	0.09
12/06/94	1350	230	21.62	0.10
12/06/94	1400	240	21.62	0.10
12/06/94	1410	250	21.62	0.10
12/06/94	1420	260	21.62	0.10
12/06/94	1430	270	21.61	0.09
12/06/94	1440	280	21.62	0.10
12/06/94	1450	290	21.62	0.10
12/06/94	1500	300	21.62	0.10
12/06/94	1510	310	21.62	0.10
12/06/94	1520	320	21.63	0.11
12/06/94	1530	330	21.62	0.10
12/06/94	1540	340	21.63	0.11
12/06/94	1550	350	21.62	0.10
12/06/94	1600	360	21.61	0.09
12/06/94	1610	370	21.63	0.11
12/06/94	1620	380	21.62	0.10
12/06/94	1630	390	21.63	0.11
12/06/94	1640	400	21.62	0.10
12/06/94	1650	410	21.63	0.11
12/06/94	1700	420	21.63	0.11
12/06/94	1710	430	21.63	0.11
12/06/94	1720	440	21.63	0.11
12/06/94	1730	450	21.62	0.10
12/06/94	1740	460	21.63	0.11
12/06/94	1750	470	21.63	0.11
12/06/94	1800	480	21.63	0.11
12/06/94	1810	490	21.63	0.11
12/06/94	1820	500	21.63	0.11
12/06/94	1830	510	21.63	0.11
12/06/94	1840	520	21.63	0.11
12/06/94	1850	530	21.63	0.11
12/06/94	1900	540	21.64	0.12
12/06/94	1910	550	21.63	0.11
12/06/94	1920	560	21.62	0.10
12/06/94	1930	570	21.63	0.11
12/06/94	1940	580	21.63	0.11
12/06/94	1950	590	21.64	0.12
12/06/94	2000	600	21.64	0.12
12/06/94	2010	610	21.64	0.12
12/06/94	2020	620	21.63	0.11
12/06/94	2030	630	21.64	0.12
12/06/94	2040	640	21.63	0.11
12/06/94	2050	650	21.64	0.12



# PUMPING TEST

**WELL NO.:** SW7

**DATE OF TEST:** December 6 & 7, 1994

**LOCATION:** Outside and Adjacent to DPW Room

**DATA COLLECTION METHOD:** CR10

**STATIC WATER LEVEL:** 21.52 ft. (TOC)

**DISTANCE TO PUMPING WELL:** 15 ft.

Date	Time (HH:MM)	Elapsed Time (min)	Depth to Water (feet)	Corrected Drawdown * (feet)
12/06/94	2100	660	21.64	0.12
12/06/94	2110	670	21.63	0.11
12/06/94	2120	680	21.63	0.11
12/06/94	2130	690	21.63	0.11
12/06/94	2140	700	21.64	0.12
12/06/94	2150	710	21.64	0.12
12/06/94	2200	720	21.63	0.11
12/06/94	2210	730	21.64	0.12
12/06/94	2220	740	21.64	0.12
12/06/94	2230	750	21.64	0.12
12/06/94	2240	760	21.63	0.11
12/06/94	2250	770	21.63	0.11
12/06/94	2300	780	21.63	0.11
12/06/94	2310	790	21.62	0.10
12/06/94	2320	800	21.63	0.11
12/06/94	2330	810	21.63	0.11
12/06/94	2340	820	21.63	0.11
12/06/94	2350	830	21.63	0.11
12/07/94	0	840	21.63	0.11
12/07/94	10	850	21.63	0.11
12/07/94	20	860	21.62	0.10
12/07/94	30	870	21.63	0.11
12/07/94	40	880	21.63	0.11
12/07/94	50	890	21.62	0.10
12/07/94	100	900	21.62	0.10
12/07/94	110	910	21.63	0.11
12/07/94	120	920	21.62	0.10
12/07/94	130	930	21.62	0.10
12/07/94	140	940	21.63	0.11
12/07/94	150	950	21.63	0.11
12/07/94	200	960	21.62	0.10
12/07/94	210	970	21.62	0.10
12/07/94	220	980	21.63	0.11
12/07/94	230	990	21.61	0.09
12/07/94	240	1000	21.62	0.10
12/07/94	250	1010	21.62	0.10
12/07/94	300	1020	21.62	0.10
12/07/94	310	1030	21.62	0.10
12/07/94	320	1040	21.61	0.09
12/07/94	330	1050	21.62	0.10
12/07/94	340	1060	21.61	0.09
12/07/94	350	1070	21.61	0.09
12/07/94	400	1080	21.62	0.10
12/07/94	410	1090	21.60	0.08

## PUMPING TEST

**WELL NO.: SW7**

**DATE OF TEST: December 6 & 7, 1994**

**LOCATION: Outside and Adjacent to DPW Room**

**DATA COLLECTION METHOD: CR10**

**STATIC WATER LEVEL: 21.52 ft. (TOC)**

**DISTANCE TO PUMPING WELL: 15 ft.**

Date	Time (HH:MM)	Elapsed Time (min)	Depth to Water (feet)	Corrected Drawdown * (feet)
12/07/94	420	1100	21.61	0.09
12/07/94	430	1110	21.61	0.09
12/07/94	440	1120	21.61	0.09
12/07/94	450	1130	21.60	0.08
12/07/94	500	1140	21.60	0.08
12/07/94	510	1150	21.61	0.09
12/07/94	520	1160	21.61	0.09
12/07/94	530	1170	21.61	0.09
12/07/94	540	1180	21.60	0.08
12/07/94	550	1190	21.60	0.08
12/07/94	600	1200	21.61	0.09
12/07/94	610	1210	21.61	0.09
12/07/94	620	1220	21.60	0.08
12/07/94	630	1230	21.61	0.09
12/07/94	640	1240	21.60	0.08
12/07/94	650	1250	21.60	0.08
12/07/94	700	1260	21.60	0.08
12/07/94	710	1270	21.59	0.07
12/07/94	720	1280	21.60	0.08
12/07/94	730	1290	21.61	0.09
12/07/94	740	1300	21.59	0.07
12/07/94	750	1310	21.59	0.07
12/07/94	800	1320	21.59	0.07
12/07/94	810	1330	21.59	0.07
12/07/94	820	1340	21.58	0.06
12/07/94	830	1350	21.58	0.06
12/07/94	840	1360	21.57	0.05
12/07/94	850	1370	21.57	0.05
12/07/94	900	1380	21.58	0.06
12/07/94	910	1390	21.58	0.06

\* Corrected drawdown = Change in drawdown (ft.) + change in atmospheric pressure (ft.)  
 Calculation is necessary for CR10 transducers only

# RECOVERY TEST

<b>WELL NO.:</b> SW7	DATE OF TEST: December 7 & 8, 1994
LOCATION: Outside and Adjacent to DPW Room	DATA COLLECTION METHOD: CR10
STATIC WATER LEVEL: 21.52 ft. (TOC)	TOTAL PUMPING TIME: 1470 min

Date	Time (HH:MM)	"t"	"t"	Depth to Water (feet)	Residual Drawdown (feet)
		Elapsed Time * (min)	Time Since Pump Shut Off (min)		
12/07/94	1030	1470	0	21.56	0.04
12/07/94	1030	1470.33	0.33	21.56	0.04
12/07/94	1030	1470.66	0.66	21.56	0.04
12/07/94	1031	1471	1	21.57	0.05
12/07/94	1032	1472	2	21.56	0.04
12/07/94	1033	1473	3	21.56	0.04
12/07/94	1034	1474	4	21.57	0.05
12/07/94	1035	1475	5	21.56	0.04
12/07/94	1036	1476	6	21.56	0.04
12/07/94	1037	1477	7	21.56	0.04
12/07/94	1038	1478	8	21.56	0.04
12/07/94	1039	1479	9	21.56	0.04
12/07/94	1040	1480	10	21.57	0.05
12/07/94	1040	1480.33	10.33	21.56	0.04
12/07/94	1045	1485	15	21.55	0.03
12/07/94	1050	1490	20	21.56	0.04
12/07/94	1055	1495	25	21.55	0.03
12/07/94	1100	1500	30	21.55	0.03
12/07/94	1105	1505	35	21.54	0.02
12/07/94	1110	1510	40	21.54	0.02
12/07/94	1115	1515	45	21.54	0.02
12/07/94	1120	1520	50	21.53	0.01
12/07/94	1125	1525	55	21.53	0.01
12/07/94	1130	1530	60	21.52	-0.00
12/07/94	1135	1535	65	21.51	-0.01
12/07/94	1140	1540	70	21.50	-0.02
12/07/94	1145	1545	75	21.51	-0.01
12/07/94	1150	1550	80	21.50	-0.02
12/07/94	1155	1555	85	21.50	-0.02
12/07/94	1200	1560	90	21.50	-0.02
12/07/94	1205	1565	95	21.50	-0.02
12/07/94	1210	1570	100	21.49	-0.03
12/07/94	1215	1575	105	21.48	-0.04
12/07/94	1220	1580	110	21.48	-0.04
12/07/94	1225	1585	115	21.48	-0.04
12/07/94	1230	1590	120	21.48	-0.04
12/07/94	1240	1600	130	21.48	-0.04
12/07/94	1250	1610	140	21.47	-0.05
12/07/94	1300	1620	150	21.48	-0.04
12/07/94	1310	1630	160	21.47	-0.05
12/07/94	1320	1640	170	21.47	-0.05
12/07/94	1330	1650	180	21.47	-0.05
12/07/94	1340	1660	190	21.46	-0.06
12/07/94	1350	1670	200	21.45	-0.07
12/07/94	1400	1680	210	21.45	-0.07
12/07/94	1410	1690	220	21.45	-0.07
12/07/94	1420	1700	230	21.44	-0.08

## RECOVERY TEST

**WELL NO.:** SW7

**DATE OF TEST:** December 7 & 8, 1994

**LOCATION:** Outside and Adjacent to DPW Room

**DATA COLLECTION METHOD:** CR10

**STATIC WATER LEVEL:** 21.52 ft. (TOC)

**TOTAL PUMPING TIME:** 1470 min

Date	Time (HH:MM)	"t" Elapsed Time * (min)	"t" Time Since Pump Shut Off (min)	Depth to Water (feet)	Residual Drawdown (feet)
12/07/94	1430	1710	240	21.45	-0.07
12/07/94	1440	1720	250	21.44	-0.08
12/07/94	1450	1730	260	21.44	-0.08
12/07/94	1500	1740	270	21.43	-0.09
12/07/94	1510	1750	280	21.44	-0.08
12/07/94	1520	1760	290	21.43	-0.09
12/07/94	1530	1770	300	21.42	-0.10
12/07/94	1540	1780	310	21.43	-0.09
12/07/94	1550	1790	320	21.43	-0.09
12/07/94	1600	1800	330	21.41	-0.11
12/07/94	1610	1810	340	21.41	-0.11
12/07/94	1620	1820	350	21.42	-0.10
12/07/94	1630	1830	360	21.42	-0.10
12/07/94	1640	1840	370	21.41	-0.11
12/07/94	1650	1850	380	21.42	-0.10
12/07/94	1700	1860	390	21.40	-0.12
12/07/94	1710	1870	400	21.41	-0.11
12/07/94	1720	1880	410	21.41	-0.11
12/07/94	1730	1890	420	21.41	-0.11
12/07/94	1740	1900	430	21.40	-0.12
12/07/94	1750	1910	440	21.40	-0.12
12/07/94	1800	1920	450	21.40	-0.12
12/07/94	1810	1930	460	21.40	-0.12
12/07/94	1820	1940	470	21.39	-0.13
12/07/94	1830	1950	480	21.38	-0.14
12/07/94	1840	1960	490	21.38	-0.14
12/07/94	1850	1970	500	21.38	-0.14
12/07/94	1900	1980	510	21.38	-0.14
12/07/94	1910	1990	520	21.38	-0.14
12/07/94	1920	2000	530	21.39	-0.13
12/07/94	1930	2010	540	21.37	-0.15
12/07/94	1940	2020	550	21.37	-0.15
12/07/94	1950	2030	560	21.37	-0.15
12/07/94	2000	2040	570	21.37	-0.15
12/07/94	2010	2050	580	21.37	-0.15
12/07/94	2020	2060	590	21.37	-0.15
12/07/94	2030	2070	600	21.36	-0.16
12/07/94	2040	2080	610	21.36	-0.16
12/07/94	2050	2090	620	21.36	-0.16
12/07/94	2100	2100	630	21.36	-0.16
12/07/94	2110	2110	640	21.37	-0.15
12/07/94	2120	2120	650	21.36	-0.16
12/07/94	2130	2130	660	21.36	-0.16
12/07/94	2140	2140	670	21.35	-0.17
12/07/94	2150	2150	680	21.34	-0.18
12/07/94	2200	2160	690	21.35	-0.17
12/07/94	2210	2170	700	21.35	-0.17

# RECOVERY TEST

**WELL NO.: SW7**

**DATE OF TEST: December 7 & 8, 1994**

**LOCATION: Outside and Adjacent to DPW Room**

**DATA COLLECTION METHOD: CR10**

**STATIC WATER LEVEL: 21.52 ft. (TOC)**

**TOTAL PUMPING TIME: 1470 min**

Date	Time (HH:MM)	"t" Elapsed Time * (min)	"t" Time Since Pump Shut Off (min)	Depth to Water (feet)	Residual Drawdown (feet)
12/07/94	2220	2180	710	21.35	-0.17
12/07/94	2230	2190	720	21.34	-0.18
12/07/94	2240	2200	730	21.34	-0.18
12/07/94	2250	2210	740	21.34	-0.18
12/07/94	2300	2220	750	21.34	-0.18
12/07/94	2310	2230	760	21.34	-0.18
12/07/94	2320	2240	770	21.33	-0.19
12/07/94	2330	2250	780	21.33	-0.19
12/07/94	2340	2260	790	21.34	-0.18
12/07/94	2350	2270	800	21.33	-0.19
12/08/94	0	2280	810	21.33	-0.19
12/08/94	10	2290	820	21.33	-0.19
12/08/94	20	2300	830	21.32	-0.20
12/08/94	30	2310	840	21.32	-0.20
12/08/94	40	2320	850	21.33	-0.19
12/08/94	50	2330	860	21.32	-0.20
12/08/94	100	2340	870	21.31	-0.21
12/08/94	110	2350	880	21.32	-0.20
12/08/94	120	2360	890	21.31	-0.21
12/08/94	130	2370	900	21.31	-0.21
12/08/94	140	2380	910	21.31	-0.21
12/08/94	150	2390	920	21.31	-0.21
12/08/94	200	2400	930	21.31	-0.21
12/08/94	210	2410	940	21.31	-0.21
12/08/94	220	2420	950	21.31	-0.21
12/08/94	230	2430	960	21.31	-0.21
12/08/94	240	2440	970	21.30	-0.22
12/08/94	250	2450	980	21.30	-0.22
12/08/94	300	2460	990	21.30	-0.21
12/08/94	310	2470	1000	21.29	-0.23
12/08/94	320	2480	1010	21.30	-0.22
12/08/94	330	2490	1020	21.30	-0.22
12/08/94	340	2500	1030	21.30	-0.22
12/08/94	350	2510	1040	21.29	-0.23
12/08/94	400	2520	1050	21.30	-0.22
12/08/94	410	2530	1060	21.29	-0.23
12/08/94	420	2540	1070	21.29	-0.23
12/08/94	430	2550	1080	21.28	-0.24
12/08/94	440	2560	1090	21.28	-0.24
12/08/94	450	2570	1100	21.28	-0.24
12/08/94	500	2580	1110	21.28	-0.24
12/08/94	510	2590	1120	21.28	-0.24
12/08/94	520	2600	1130	21.28	-0.24
12/08/94	530	2610	1140	21.28	-0.24
12/08/94	540	2620	1150	21.27	-0.24
12/08/94	550	2630	1160	21.28	-0.24
12/08/94	600	2640	1170	21.28	-0.24

## RECOVERY TEST

**WELL NO.: SW7**

**DATE OF TEST: December 7 & 8, 1994**

**LOCATION: Outside and Adjacent to DPW Room**

**DATA COLLECTION METHOD: CR10**

**STATIC WATER LEVEL: 21.52 ft. (TOC)**

**TOTAL PUMPING TIME: 1470 min**

Date	Time (HH:MM)	"t" Elapsed Time * (min)	"t" Time Since Pump Shut Off (min)	Depth to Water (feet)	Residual Drawdown (feet)
12/08/94	610	2650	1180	21.27	-0.25
12/08/94	620	2660	1190	21.27	-0.25
12/08/94	630	2670	1200	21.26	-0.26
12/08/94	640	2680	1210	21.27	-0.25
12/08/94	650	2690	1220	21.27	-0.25
12/08/94	700	2700	1230	21.27	-0.25
12/08/94	710	2710	1240	21.26	-0.26
12/08/94	720	2720	1250	21.26	-0.26
12/08/94	730	2730	1260	21.26	-0.26
12/08/94	740	2740	1270	21.26	-0.26
12/08/94	750	2750	1280	21.26	-0.26
12/08/94	800	2760	1290	21.26	-0.26
12/08/94	810	2770	1300	21.26	-0.26
12/08/94	820	2780	1310	21.25	-0.27
12/08/94	830	2790	1320	21.25	-0.27
12/08/94	840	2800	1330	21.25	-0.27
12/08/94	850	2810	1340	21.25	-0.27
12/08/94	900	2820	1350	21.24	-0.28
12/08/94	910	2830	1360	21.25	-0.27
12/08/94	920	2840	1370	21.25	-0.27
12/08/94	930	2850	1380	21.24	-0.28
12/08/94	940	2860	1390	21.24	-0.28
12/08/94	950	2870	1400	21.23	-0.28
12/08/94	1000	2880	1410	21.24	-0.28
12/08/94	1010	2890	1420	21.24	-0.28
12/08/94	1020	2900	1430	21.23	-0.29

\* Elapsed time = Time since pumping test began

## PUMPING TEST

**WELL NO.: SW8**

**DATE OF TEST: December 6 & 7, 1994**

**LOCATION: Southeast Corner of Rear Lot** **DATA COLLECTION METHOD: Hand**

**STATIC WATER LEVEL: 12.14 ft. (TOC)** **DISTANCE TO PUMPING WELL: 670 ft.**

Date	Time (HH:MM)	Elapsed Time (min)	Depth to Water (feet)	Drawdown (feet)
12/06/94	1030	30	12.10	-0.04
12/06/94	1246	166	12.09	-0.05
12/06/94	1405	245	12.08	-0.06
12/06/94	1513	313	12.07	-0.07
12/06/94	1612	372	12.05	-0.09
12/06/94	1710	430	12.08	-0.06
12/06/94	1813	493	12.08	-0.06
12/06/94	1915	555	12.08	-0.06
12/06/94	2010	610	12.11	-0.03
12/06/94	2122	682	12.11	-0.03
12/06/94	2237	757	12.11	-0.03
12/06/94	2309	789	12.11	-0.03
12/07/94	9	849	12.11	-0.03
12/07/94	106	906	12.11	-0.03
12/07/94	206	966	12.12	-0.02
12/07/94	306	1026	12.12	-0.02
12/07/94	404	1084	12.11	-0.03
12/07/94	509	1149	12.13	-0.01
12/07/94	613	1213	12.12	-0.02
12/07/94	722	1282	12.15	0.01
12/07/94	809	1329	12.13	-0.01
12/07/94	917	1397	12.13	-0.01

## RECOVERY TEST

**WELL NO.: SW8**

**LOCATION: Southeast Corner of Rear Lot**

**STATIC WATER LEVEL: 12.14 ft. (TOC)**

**DATE OF TEST: December 7 & 8, 1994**

**DATA COLLECTION METHOD: Hand**

**TOTAL PUMPING TIME: 1470 min**

Date	Time (HH:MM)	"t" Elapsed Time * (min)	"t" Time Since Pump Shut Off (min)	Depth to Water (feet)	Residual Drawdown (feet)
12/07/94	1101	1501	31	12.14	0.00
12/07/94	1203	1563	93	12.13	-0.01
12/07/94	1315	1635	165	12.13	-0.01
12/07/94	1408	1688	218	12.15	0.01
12/07/94	1508	1748	278	12.17	0.03
12/07/94	1606	1806	336	12.20	0.06
12/07/94	1728	1888	418	12.21	0.07
12/07/94	1806	1926	456	12.22	0.08
12/07/94	1904	1984	514	12.23	0.09
12/07/94	2011	2051	581	12.24	0.10
12/07/94	2107	2107	637	12.25	0.11
12/07/94	2204	2164	694	12.25	0.11
12/08/94	720	2720	1250	12.31	0.17

\* Elapsed time = Time since pumping began



## PUMPING TEST

**WELL NO.: DW8**

**DATE OF TEST: December 6 & 7, 1994**

**LOCATION: Southeast Corner of Rear Lot DATA COLLECTION METHOD: Hand**

**STATIC WATER LEVEL: 15.95 ft. (TOC) DISTANCE TO PUMPING WELL: 670 ft.**

Date	Time (HH:MM)	Elapsed Time (min)	Depth to Water (feet)	Drawdown (feet)
12/06/94	1030	30	16.22	0.27
12/06/94	1246	166	16.38	0.43
12/06/94	1406	246	16.42	0.47
12/06/94	1514	314	16.41	0.46
12/06/94	1613	373	16.41	0.46
12/06/94	1711	431	16.45	0.50
12/06/94	1814	494	16.43	0.48
12/06/94	1916	556	16.46	0.51
12/06/94	2011	611	16.48	0.53
12/06/94	2123	683	16.48	0.53
12/06/94	2236	756	16.47	0.52
12/06/94	2308	788	16.48	0.53
12/07/94	7	847	16.50	0.55
12/07/94	105	905	16.50	0.55
12/07/94	205	965	16.52	0.57
12/07/94	305	1025	16.52	0.57
12/07/94	404	1084	16.51	0.56
12/07/94	508	1148	16.50	0.55
12/07/94	612	1212	16.50	0.55
12/07/94	722	1282	16.52	0.57
12/07/94	808	1328	16.52	0.57
12/07/94	916	1396	16.52	0.57

## RECOVERY TEST

**WELL NO.:** DW8

**DATE OF TEST:** December 7 & 8, 1994

**LOCATION:** Southeast Corner of Rear Lot

**DATA COLLECTION METHOD:** Hand

**STATIC WATER LEVEL:** 15.95 ft. (TOC)

**TOTAL PUMPING TIME:** 1470 min

Date	Time (HH:MM)	"t" Elapsed Time * (min)	"t" Time Since Pump Shut Off (min)	Depth to Water (feet)	Residual Drawdown (feet)
12/07/94	1102	1502	32	16.23	0.28
12/07/94	1204	1564	94	16.13	0.18
12/07/94	1316	1636	166	16.08	0.13
12/07/94	1409	1689	219	16.07	0.12
12/07/94	1509	1749	279	16.06	0.11
12/07/94	1607	1807	337	16.05	0.10
12/07/94	1729	1889	419	16.04	0.09
12/07/94	1807	1927	457	16.05	0.10
12/07/94	1905	1985	515	16.03	0.08
12/07/94	2012	2052	582	16.03	0.08
12/07/94	2108	2108	638	16.03	0.08
12/07/94	2205	2165	695	16.02	0.07
12/08/94	721	2721	1251	15.98	0.03

\* Elapsed time = Time since pumping began

## PUMPING TEST

**WELL NO.: SW9**

**DATE OF TEST: December 6 & 7, 1994**

**LOCATION: Southwest of Reservoir**

**DATA COLLECTION METHOD: CR10**

**STATIC WATER LEVEL: 22.15 ft. (TOC)**

**DISTANCE TO PUMPING WELL: 500 ft.**

Date	Time (HH:MM)	Elapsed Time (min)	Depth to Water (feet)	Corrected Drawdown * (feet)
12/06/94	1000	0	22.15	0.00
12/06/94	1000	0.5	22.15	0.00
12/06/94	1000	1	22.15	0.00
12/06/94	1001	1.5	22.15	0.00
12/06/94	1001	2	22.15	0.00
12/06/94	1002	2.5	22.15	0.00
12/06/94	1002	3	22.15	0.00
12/06/94	1003	3.5	22.15	0.00
12/06/94	1003	4	22.15	0.00
12/06/94	1004	4.5	22.15	0.00
12/06/94	1004	5	22.15	0.00
12/06/94	1005	5.5	22.15	0.00
12/06/94	1005	6	22.15	0.00
12/06/94	1006	6.5	22.15	0.00
12/06/94	1006	7	22.15	0.00
12/06/94	1007	7.5	22.15	0.00
12/06/94	1007	8	22.15	0.00
12/06/94	1008	8.5	22.15	0.00
12/06/94	1008	9	22.15	0.00
12/06/94	1009	9.5	22.15	0.00
12/06/94	1010	10.5	22.15	0.00
12/06/94	1015	15.5	22.14	-0.01
12/06/94	1020	20.5	22.15	0.00
12/06/94	1025	25.5	22.14	-0.01
12/06/94	1030	30.5	22.14	-0.01
12/06/94	1035	35.5	22.15	0.00
12/06/94	1040	40.5	22.14	-0.01
12/06/94	1045	45.5	22.14	-0.01
12/06/94	1050	50.5	22.14	-0.01
12/06/94	1055	55.5	22.14	-0.01
12/06/94	1100	60.5	22.13	-0.02
12/06/94	1105	65.5	22.13	-0.02
12/06/94	1110	70.5	22.13	-0.02
12/06/94	1115	75.5	22.13	-0.02
12/06/94	1120	80.5	22.13	-0.02
12/06/94	1125	85.5	22.13	-0.02
12/06/94	1130	90.5	22.13	-0.02
12/06/94	1135	95.5	22.13	-0.02
12/06/94	1140	100.5	22.13	-0.02
12/06/94	1145	105.5	22.13	-0.02
12/06/94	1150	110.5	22.13	-0.02
12/06/94	1155	115.5	22.12	-0.03
12/06/94	1200	120.5	22.12	-0.03
12/06/94	1210	130.5	22.11	-0.04
12/06/94	1220	140.5	22.11	-0.04
12/06/94	1230	150.5	22.11	-0.04
12/06/94	1240	160.5	22.10	-0.05

# PUMPING TEST

**WELL NO.:** SW9

**DATE OF TEST:** December 6 & 7, 1994

**LOCATION:** Southwest of Reservoir

**DATA COLLECTION METHOD:** CR10

**STATIC WATER LEVEL:** 22.15 ft. (TOC)

**DISTANCE TO PUMPING WELL:** 500 ft.

Date	Time (HH:MM)	Elapsed Time (min)	Depth to Water (feet)	Corrected Drawdown * (feet)
12/06/94	1250	170.5	22.11	-0.04
12/06/94	1300	180.5	22.10	-0.05
12/06/94	1310	190.5	22.10	-0.05
12/06/94	1320	200.5	22.10	-0.05
12/06/94	1330	210.5	22.10	-0.05
12/06/94	1340	220.5	22.10	-0.05
12/06/94	1350	230.5	22.10	-0.05
12/06/94	1400	240.5	22.09	-0.06
12/06/94	1410	250.5	22.09	-0.06
12/06/94	1420	260.5	22.09	-0.06
12/06/94	1430	270.5	22.08	-0.07
12/06/94	1440	280.5	22.08	-0.07
12/06/94	1450	290.5	22.08	-0.07
12/06/94	1500	300.5	22.07	-0.08
12/06/94	1510	310.5	22.07	-0.08
12/06/94	1520	320.5	22.07	-0.08
12/06/94	1530	330.5	22.07	-0.08
12/06/94	1540	340.5	22.06	-0.09
12/06/94	1550	350.5	22.06	-0.09
12/06/94	1600	360.5	22.05	-0.10
12/06/94	1610	370.5	22.06	-0.09
12/06/94	1620	380.5	22.05	-0.10
12/06/94	1630	390.5	22.05	-0.10
12/06/94	1640	400.5	22.05	-0.10
12/06/94	1650	410.5	22.05	-0.10
12/06/94	1700	420.5	22.04	-0.11
12/06/94	1710	430.5	22.04	-0.11
12/06/94	1720	440.5	22.04	-0.11
12/06/94	1730	450.5	22.04	-0.11
12/06/94	1740	460.5	22.04	-0.11
12/06/94	1750	470.5	22.04	-0.11
12/06/94	1800	480.5	22.03	-0.12
12/06/94	1810	490.5	22.03	-0.12
12/06/94	1820	500.5	22.03	-0.12
12/06/94	1830	510.5	22.03	-0.12
12/06/94	1840	520.5	22.03	-0.12
12/06/94	1850	530.5	22.02	-0.13
12/06/94	1900	540.5	22.02	-0.13
12/06/94	1910	550.5	22.02	-0.13
12/06/94	1920	560.5	22.01	-0.14
12/06/94	1930	570.5	22.01	-0.14
12/06/94	1940	580.5	22.01	-0.14
12/06/94	1950	590.5	22.01	-0.14
12/06/94	2000	600.5	22.01	-0.14
12/06/94	2010	610.5	22.01	-0.14
12/06/94	2020	620.5	22.00	-0.15
12/06/94	2030	630.5	22.00	-0.15

# PUMPING TEST

**WELL NO.:** SW9

**DATE OF TEST:** December 6 & 7, 1994

**LOCATION:** Southwest of Reservoir

**DATA COLLECTION METHOD:** CR10

**STATIC WATER LEVEL:** 22.15 ft. (TOC)

**DISTANCE TO PUMPING WELL:** 500 ft.

Date	Time (HH:MM)	Elapsed Time (min)	Depth to Water (feet)	Corrected Drawdown * (feet)
12/06/94	2040	640.5	22.00	-0.15
12/06/94	2050	650.5	22.00	-0.15
12/06/94	2100	660.5	21.99	-0.16
12/06/94	2110	670.5	21.99	-0.16
12/06/94	2120	680.5	21.98	-0.17
12/06/94	2130	690.5	21.98	-0.17
12/06/94	2140	701	21.99	-0.16
12/06/94	2150	711	21.98	-0.17
12/06/94	2200	721	21.97	-0.18
12/06/94	2210	731	21.98	-0.17
12/06/94	2220	741	21.98	-0.17
12/06/94	2230	751	21.97	-0.18
12/06/94	2240	761	21.97	-0.18
12/06/94	2250	771	21.96	-0.19
12/06/94	2300	781	21.97	-0.18
12/06/94	2310	791	21.96	-0.19
12/06/94	2320	801	21.96	-0.19
12/06/94	2330	811	21.96	-0.19
12/06/94	2340	821	21.95	-0.20
12/06/94	2350	831	21.96	-0.19
12/07/94	0	841	21.96	-0.19
12/07/94	10	851	21.95	-0.20
12/07/94	20	861	21.95	-0.20
12/07/94	30	871	21.94	-0.21
12/07/94	40	881	21.94	-0.21
12/07/94	50	891	21.94	-0.21
12/07/94	100	901	21.94	-0.21
12/07/94	110	911	21.94	-0.21
12/07/94	120	921	21.93	-0.22
12/07/94	130	931	21.94	-0.21
12/07/94	140	941	21.93	-0.22
12/07/94	150	951	21.93	-0.22
12/07/94	200	961	21.93	-0.22
12/07/94	210	971	21.93	-0.22
12/07/94	220	981	21.93	-0.22
12/07/94	230	991	21.91	-0.24
12/07/94	240	1001	21.92	-0.23
12/07/94	250	1011	21.92	-0.23
12/07/94	300	1021	21.92	-0.23
12/07/94	310	1031	21.91	-0.24
12/07/94	320	1041	21.91	-0.24
12/07/94	330	1051	21.91	-0.24
12/07/94	340	1061	21.90	-0.25
12/07/94	350	1071	21.90	-0.25
12/07/94	400	1081	21.90	-0.25
12/07/94	410	1091	21.89	-0.26
12/07/94	420	1101	21.89	-0.26

## PUMPING TEST

**WELL NO.: SW9**

**DATE OF TEST:** December 6 & 7, 1994

**LOCATION:** Southwest of Reservoir

**DATA COLLECTION METHOD:** CR10

**STATIC WATER LEVEL:** 22.15 ft. (TOC)

**DISTANCE TO PUMPING WELL:** 500 ft.

Date	Time (HH:MM)	Elapsed Time (min)	Depth to Water (feet)	Corrected Drawdown * (feet)
12/07/94	430	1111	21.89	-0.26
12/07/94	440	1121	21.89	-0.26
12/07/94	450	1131	21.89	-0.26
12/07/94	500	1141	21.88	-0.27
12/07/94	510	1151	21.87	-0.28
12/07/94	520	1161	21.88	-0.27
12/07/94	530	1171	21.87	-0.28
12/07/94	540	1181	21.88	-0.27
12/07/94	550	1191	21.87	-0.28
12/07/94	600	1201	21.88	-0.27
12/07/94	610	1211	21.87	-0.28
12/07/94	620	1221	21.87	-0.28
12/07/94	630	1231	21.87	-0.28
12/07/94	640	1241	21.86	-0.29
12/07/94	650	1251	21.86	-0.29
12/07/94	700	1261	21.86	-0.29
12/07/94	710	1271	21.85	-0.30
12/07/94	720	1281	21.85	-0.30
12/07/94	730	1291	21.86	-0.29
12/07/94	740	1301	21.85	-0.30
12/07/94	750	1311	21.84	-0.31
12/07/94	800	1321	21.84	-0.31
12/07/94	810	1331	21.84	-0.31
12/07/94	820	1341	21.84	-0.31
12/07/94	830	1351	21.84	-0.31
12/07/94	840	1361	21.83	-0.32
12/07/94	850	1371	21.83	-0.32
12/07/94	900	1381	21.83	-0.32
12/07/94	910	1391	21.82	-0.33

\* Corrected drawdown = Change in drawdown (ft.) + change in atmospheric pressure (ft.)  
 Calculation is necessary for CR10 transducers only

## RECOVERY TEST

<b>WELL NO.:</b> SW9	DATE OF TEST: December 7 & 8, 1994
LOCATION: Southwest of Reservoir	DATA COLLECTION METHOD: CR10
STATIC WATER LEVEL: 22.15 ft. (TOC)	TOTAL PUMPING TIME: 1470 min

Date	Time (HH:MM)	"t" Elapsed Time * (min)	"t" Time Since Pump Shut Off (min)	Depth to Water (feet)	Residual Drawdown (feet)
12/07/94	1030	1470	0	21.81	-0.34
12/07/94	1030	1470.5	0.5	21.81	-0.34
12/07/94	1031	1471	1	21.81	-0.34
12/07/94	1031	1471.5	1.5	21.81	-0.34
12/07/94	1032	1472	2	21.81	-0.34
12/07/94	1032	1472.5	2.5	21.81	-0.34
12/07/94	1033	1473	3	21.81	-0.34
12/07/94	1033	1473.5	3.5	21.81	-0.34
12/07/94	1034	1474	4	21.81	-0.34
12/07/94	1034	1474.5	4.5	21.81	-0.34
12/07/94	1035	1475	5	21.81	-0.34
12/07/94	1035	1475.5	5.5	21.81	-0.34
12/07/94	1036	1476	6	21.81	-0.34
12/07/94	1036	1476.5	6.5	21.81	-0.34
12/07/94	1037	1477	7	21.81	-0.34
12/07/94	1037	1477.5	7.5	21.81	-0.34
12/07/94	1038	1478	8	21.81	-0.34
12/07/94	1038	1478.5	8.5	21.81	-0.34
12/07/94	1039	1479	9	21.81	-0.34
12/07/94	1039	1479.5	9.5	21.81	-0.34
12/07/94	1040	1480	10	21.81	-0.34
12/07/94	1045	1485	15	21.81	-0.34
12/07/94	1050	1490	20	21.81	-0.34
12/07/94	1055	1495	25	21.81	-0.34
12/07/94	1100	1500	30	21.81	-0.34
12/07/94	1105	1505	35	21.81	-0.34
12/07/94	1110	1510	40	21.81	-0.35
12/07/94	1115	1515	45	21.80	-0.35
12/07/94	1120	1520	50	21.80	-0.35
12/07/94	1125	1525	55	21.80	-0.35
12/07/94	1130	1530	60	21.80	-0.35
12/07/94	1135	1535	65	21.80	-0.35
12/07/94	1140	1540	70	21.80	-0.35
12/07/94	1145	1545	75	21.79	-0.36
12/07/94	1150	1550	80	21.79	-0.36
12/07/94	1155	1555	85	21.79	-0.36
12/07/94	1200	1560	90	21.79	-0.36
12/07/94	1205	1565	95	21.79	-0.36
12/07/94	1210	1570	100	21.79	-0.36
12/07/94	1215	1575	105	21.79	-0.37
12/07/94	1220	1580	110	21.78	-0.37
12/07/94	1225	1585	115	21.78	-0.37
12/07/94	1230	1590	120	21.78	-0.37
12/07/94	1240	1600	130	21.78	-0.37
12/07/94	1250	1610	140	21.78	-0.37
12/07/94	1300	1620	150	21.78	-0.37
12/07/94	1310	1630	160	21.77	-0.38

# RECOVERY TEST

**WELL NO.:** SW9

**DATE OF TEST:** December 7 & 8, 1994

**LOCATION:** Southwest of Reservoir

**DATA COLLECTION METHOD:** CR10

**STATIC WATER LEVEL:** 22.15 ft. (TOC)

**TOTAL PUMPING TIME:** 1470 min

Date	Time (HH:MM)	"t" Elapsed Time * (min)	"t" Time Since Pump Shut Off (min)	Depth to Water (feet)	Residual Drawdown (feet)
12/07/94	1320	1640	170	21.77	-0.38
12/07/94	1330	1650	180	21.77	-0.38
12/07/94	1340	1660	190	21.76	-0.39
12/07/94	1350	1670	200	21.76	-0.39
12/07/94	1400	1680	210	21.76	-0.39
12/07/94	1410	1690	220	21.76	-0.39
12/07/94	1420	1700	230	21.75	-0.40
12/07/94	1430	1710	240	21.76	-0.39
12/07/94	1440	1720	250	21.75	-0.40
12/07/94	1450	1730	260	21.75	-0.40
12/07/94	1500	1740	270	21.75	-0.40
12/07/94	1510	1750	280	21.75	-0.40
12/07/94	1520	1760	290	21.75	-0.40
12/07/94	1530	1770	300	21.74	-0.41
12/07/94	1540	1780	310	21.74	-0.41
12/07/94	1550	1790	320	21.74	-0.41
12/07/94	1600	1800	330	21.73	-0.42
12/07/94	1610	1810	340	21.73	-0.42
12/07/94	1620	1820	350	21.73	-0.42
12/07/94	1630	1830	360	21.73	-0.42
12/07/94	1640	1840	370	21.72	-0.43
12/07/94	1650	1850	380	21.72	-0.43
12/07/94	1700	1860	390	21.72	-0.43
12/07/94	1710	1870	400	21.72	-0.43
12/07/94	1720	1880	410	21.72	-0.43
12/07/94	1730	1890	420	21.71	-0.44
12/07/94	1740	1900	430	21.71	-0.44
12/07/94	1750	1910	440	21.71	-0.44
12/07/94	1800	1920	450	21.71	-0.44
12/07/94	1810	1930	460	21.71	-0.44
12/07/94	1820	1940	470	21.70	-0.45
12/07/94	1830	1950	480	21.70	-0.45
12/07/94	1840	1960	490	21.70	-0.45
12/07/94	1850	1970	500	21.70	-0.45
12/07/94	1900	1980	510	21.69	-0.46
12/07/94	1910	1990	520	21.69	-0.46
12/07/94	1920	2000	530	21.69	-0.46
12/07/94	1930	2010	540	21.69	-0.46
12/07/94	1940	2020	550	21.69	-0.46
12/07/94	1950	2030	560	21.69	-0.46
12/07/94	2000	2040	570	21.69	-0.46
12/07/94	2010	2050	580	21.69	-0.46
12/07/94	2020	2060	590	21.69	-0.46
12/07/94	2030	2070	600	21.69	-0.46
12/07/94	2040	2080	610	21.69	-0.46
12/07/94	2050	2090	620	21.68	-0.47
12/07/94	2100	2100	630	21.68	-0.47



## RECOVERY TEST

**WELL NO.:** SW9

**DATE OF TEST:** December 7 & 8, 1994

**LOCATION:** Southwest of Reservoir

**DATA COLLECTION METHOD:** CR10

**STATIC WATER LEVEL:** 22.15 ft. (TOC)

**TOTAL PUMPING TIME:** 1470 min

Date	Time (HH:MM)	"t" Elapsed Time * (min)	"t" Time Since Pump Shut Off (min)	Depth to Water (feet)	Residual Drawdown (feet)
12/07/94	2110	2110	640	21.68	-0.47
12/07/94	2120	2120	650	21.68	-0.47
12/07/94	2130	2130	660	21.68	-0.47
12/07/94	2140	2140	670	21.67	-0.48
12/07/94	2150	2150	680	21.67	-0.48
12/07/94	2200	2160	690	21.67	-0.48
12/07/94	2210	2170	700	21.67	-0.48
12/07/94	2220	2180	710	21.67	-0.48
12/07/94	2230	2190	720	21.66	-0.49
12/07/94	2240	2200	730	21.66	-0.49
12/07/94	2250	2210	740	21.66	-0.49
12/07/94	2300	2220	750	21.65	-0.50
12/07/94	2310	2230	760	21.65	-0.50
12/07/94	2320	2240	770	21.65	-0.50
12/07/94	2330	2250	780	21.64	-0.51
12/07/94	2340	2260	790	21.65	-0.50
12/07/94	2350	2270	800	21.64	-0.51
12/08/94	0	2280	810	21.64	-0.51
12/08/94	10	2290	820	21.64	-0.51
12/08/94	20	2300	830	21.63	-0.52
12/08/94	30	2310	840	21.63	-0.52
12/08/94	40	2320	850	21.63	-0.52
12/08/94	50	2330	860	21.63	-0.52
12/08/94	100	2340	870	21.63	-0.52
12/08/94	110	2350	880	21.62	-0.53
12/08/94	120	2360	890	21.62	-0.53
12/08/94	130	2370	900	21.62	-0.53
12/08/94	140	2380	910	21.62	-0.53
12/08/94	150	2390	920	21.62	-0.53
12/08/94	200	2400	930	21.62	-0.53
12/08/94	210	2410	940	21.61	-0.54
12/08/94	220	2420	950	21.61	-0.54
12/08/94	230	2430	960	21.61	-0.54
12/08/94	240	2440	970	21.61	-0.54
12/08/94	250	2450	980	21.61	-0.54
12/08/94	300	2460	990	21.61	-0.54
12/08/94	310	2470	1000	21.60	-0.55
12/08/94	320	2480	1010	21.60	-0.55
12/08/94	330	2490	1020	21.61	-0.54
12/08/94	340	2500	1030	21.60	-0.55
12/08/94	350	2510	1040	21.60	-0.55
12/08/94	400	2520	1050	21.60	-0.55
12/08/94	410	2530	1060	21.59	-0.56
12/08/94	420	2540	1070	21.59	-0.56
12/08/94	430	2550	1080	21.59	-0.56
12/08/94	440	2560	1090	21.59	-0.56
12/08/94	450	2570	1100	21.59	-0.56

# RECOVERY TEST

**WELL NO.: SW9**

**LOCATION: Southwest of Reservoir**

**STATIC WATER LEVEL: 22.15 ft. (TOC)**

**DATE OF TEST: December 7 & 8, 1994**

**DATA COLLECTION METHOD: CR10**

**TOTAL PUMPING TIME: 1470 min**

Date	Time (HH:MM)	"t" Elapsed Time * (min)	"t" Time Since Pump Shut Off (min)	Depth to Water (feet)	Residual Drawdown (feet)
12/08/94	500	2580	1110	21.59	-0.56
12/08/94	510	2590	1120	21.59	-0.56
12/08/94	520	2600	1130	21.59	-0.56
12/08/94	530	2610	1140	21.58	-0.57
12/08/94	540	2620	1150	21.58	-0.57
12/08/94	550	2630	1160	21.58	-0.57
12/08/94	600	2640	1170	21.58	-0.57
12/08/94	610	2650	1180	21.58	-0.57
12/08/94	620	2660	1190	21.58	-0.57
12/08/94	630	2670	1200	21.58	-0.57
12/08/94	640	2680	1210	21.57	-0.58
12/08/94	650	2690	1220	21.58	-0.57
12/08/94	700	2700	1230	21.57	-0.58
12/08/94	710	2710	1240	21.57	-0.58
12/08/94	720	2720	1250	21.57	-0.58
12/08/94	730	2730	1260	21.57	-0.58
12/08/94	740	2740	1270	21.58	-0.57
12/08/94	750	2750	1280	21.56	-0.59
12/08/94	800	2760	1290	21.56	-0.59
12/08/94	810	2770	1300	21.56	-0.59
12/08/94	820	2780	1310	21.56	-0.59
12/08/94	830	2790	1320	21.55	-0.60
12/08/94	840	2800	1330	21.55	-0.60
12/08/94	850	2810	1340	21.55	-0.60
12/08/94	900	2820	1350	21.55	-0.60
12/08/94	910	2830	1360	21.55	-0.60
12/08/94	920	2840	1370	21.55	-0.60
12/08/94	930	2850	1380	21.54	-0.61
12/08/94	940	2860	1390	21.54	-0.61
12/08/94	950	2870	1400	21.54	-0.61
12/08/94	1000	2880	1410	21.54	-0.61
12/08/94	1010	2890	1420	21.54	-0.61
12/08/94	1020	2900	1430	21.53	-0.62

\* Elapsed Time = Time since pumping test began

# PUMPING TEST

**WELL NO.: IW9**

**DATE OF TEST: December 6 & 7, 1994**

**LOCATION: Southwest of Reservoir**

**DATA COLLECTION METHOD: CR10**

**STATIC WATER LEVEL: 29.88 ft. (TOC)**

**DISTANCE TO PUMPING WELL: 500 ft.**

Date	Time (HH:MM)	Elapsed Time (min)	Depth to Water (feet)	Corrected Drawdown * (feet)
12/06/94	1000	0	29.88	0.00
12/06/94	1000	0.5	29.88	0.00
12/06/94	1000	1	29.87	-0.01
12/06/94	1001	1.5	29.87	-0.01
12/06/94	1001	2	29.87	-0.01
12/06/94	1002	2.5	29.87	-0.01
12/06/94	1002	3	29.87	-0.01
12/06/94	1003	3.5	29.86	-0.02
12/06/94	1003	4	29.86	-0.02
12/06/94	1004	4.5	29.86	-0.02
12/06/94	1004	5	29.86	-0.02
12/06/94	1005	5.5	29.85	-0.03
12/06/94	1005	6	29.85	-0.03
12/06/94	1006	6.5	29.85	-0.03
12/06/94	1006	7	29.85	-0.03
12/06/94	1007	7.5	29.85	-0.03
12/06/94	1007	8	29.84	-0.04
12/06/94	1008	8.5	29.84	-0.04
12/06/94	1008	9	29.84	-0.04
12/06/94	1009	9.5	29.84	-0.04
12/06/94	1010	10.5	29.83	-0.05
12/06/94	1015	15.5	29.83	-0.05
12/06/94	1020	20.5	29.80	-0.08
12/06/94	1025	25.5	29.78	-0.10
12/06/94	1030	30.5	29.76	-0.12
12/06/94	1035	35.5	29.73	-0.15
12/06/94	1040	40.5	29.72	-0.16
12/06/94	1045	45.5	29.69	-0.19
12/06/94	1050	50.5	29.67	-0.21
12/06/94	1055	55.5	29.64	-0.24
12/06/94	1100	60.5	29.62	-0.26
12/06/94	1105	65.5	29.60	-0.28
12/06/94	1110	70.5	29.57	-0.31
12/06/94	1115	75.5	29.55	-0.33
12/06/94	1120	80.5	29.53	-0.35
12/06/94	1125	85.5	29.51	-0.37
12/06/94	1130	90.5	29.49	-0.39
12/06/94	1135	95.5	29.47	-0.41
12/06/94	1140	100.5	29.44	-0.44
12/06/94	1145	105.5	29.42	-0.46
12/06/94	1150	110.5	29.40	-0.48
12/06/94	1155	115.5	29.38	-0.50
12/06/94	1200	120.5	29.35	-0.53
12/06/94	1210	130.5	29.33	-0.55
12/06/94	1220	140.5	29.29	-0.59
12/06/94	1230	150.5	29.25	-0.63
12/06/94	1240	160.5	29.21	-0.67

# PUMPING TEST

**WELL NO.:** IW9

**DATE OF TEST:** December 6 & 7, 1994

**LOCATION:** Southwest of Reservoir

**DATA COLLECTION METHOD:** CR10

**STATIC WATER LEVEL:** 29.88 ft. (TOC)

**DISTANCE TO PUMPING WELL:** 500 ft.

Date	Time (HH:MM)	Elapsed Time (min)	Depth to Water (feet)	Corrected Drawdown * (feet)
12/06/94	1250	170.5	29.16	-0.72
12/06/94	1300	180.5	29.13	-0.75
12/06/94	1310	190.5	29.08	-0.80
12/06/94	1320	200.5	29.04	-0.84
12/06/94	1330	210.5	29.00	-0.88
12/06/94	1340	220.5	28.96	-0.92
12/06/94	1350	230.5	28.92	-0.96
12/06/94	1400	240.5	28.88	-1.00
12/06/94	1410	250.5	28.84	-1.04
12/06/94	1420	260.5	28.79	-1.09
12/06/94	1430	270.5	28.76	-1.12
12/06/94	1440	280.5	28.71	-1.17
12/06/94	1450	290.5	28.68	-1.20
12/06/94	1500	300.5	28.63	-1.25
12/06/94	1510	310.5	28.59	-1.29
12/06/94	1520	320.5	28.55	-1.33
12/06/94	1530	330.5	28.52	-1.36
12/06/94	1540	340.5	28.47	-1.41
12/06/94	1550	350.5	28.43	-1.45
12/06/94	1600	360.5	28.39	-1.49
12/06/94	1610	370.5	28.35	-1.53
12/06/94	1620	380.5	28.33	-1.55
12/06/94	1630	390.5	28.28	-1.60
12/06/94	1640	400.5	28.24	-1.64
12/06/94	1650	410.5	28.20	-1.68
12/06/94	1700	420.5	28.17	-1.71
12/06/94	1710	430.5	28.13	-1.75
12/06/94	1720	440.5	28.09	-1.79
12/06/94	1730	450.5	28.05	-1.83
12/06/94	1740	460.5	28.02	-1.86
12/06/94	1750	470.5	27.99	-1.89
12/06/94	1800	480.5	27.95	-1.93
12/06/94	1810	490.5	27.92	-1.96
12/06/94	1820	500.5	27.88	-2.00
12/06/94	1830	510.5	27.85	-2.03
12/06/94	1840	520.5	27.81	-2.07
12/06/94	1850	530.5	27.78	-2.10
12/06/94	1900	540.5	27.74	-2.14
12/06/94	1910	550.5	27.70	-2.18
12/06/94	1920	560.5	27.67	-2.21
12/06/94	1930	570.5	27.63	-2.25
12/06/94	1940	580.5	27.60	-2.28
12/06/94	1950	590.5	27.56	-2.32
12/06/94	2000	600.5	27.53	-2.35
12/06/94	2010	610.5	27.50	-2.38
12/06/94	2020	620.5	27.47	-2.41
12/06/94	2030	630.5	27.44	-2.44

# PUMPING TEST

**WELL NO.:** IW9

**DATE OF TEST:** December 6 & 7, 1994

**LOCATION:** Southwest of Reservoir

**DATA COLLECTION METHOD:** CR10

**STATIC WATER LEVEL:** 29.88 ft. (TOC)

**DISTANCE TO PUMPING WELL:** 500 ft.

Date	Time (HH:MM)	Elapsed Time (min)	Depth to Water (feet)	Corrected Drawdown * (feet)
12/06/94	2040	640.5	27.40	-2.48
12/06/94	2050	650.5	27.37	-2.51
12/06/94	2100	660.5	27.34	-2.54
12/06/94	2110	670.5	27.31	-2.57
12/06/94	2120	680.5	27.27	-2.61
12/06/94	2130	690.5	27.24	-2.64
12/06/94	2140	701	27.20	-2.68
12/06/94	2150	711	27.18	-2.70
12/06/94	2200	721	27.15	-2.73
12/06/94	2210	731	27.11	-2.77
12/06/94	2220	741	27.08	-2.80
12/06/94	2230	751	27.05	-2.83
12/06/94	2240	761	27.01	-2.87
12/06/94	2250	771	26.98	-2.90
12/06/94	2300	781	26.95	-2.93
12/06/94	2310	791	26.92	-2.96
12/06/94	2320	801	26.88	-3.00
12/06/94	2330	811	26.86	-3.02
12/06/94	2340	821	26.83	-3.05
12/06/94	2350	831	26.79	-3.09
12/07/94	0	841	26.77	-3.11
12/07/94	10	851	26.74	-3.14
12/07/94	20	861	26.71	-3.17
12/07/94	30	871	26.68	-3.20
12/07/94	40	881	26.65	-3.23
12/07/94	50	891	26.62	-3.26
12/07/94	100	901	26.59	-3.29
12/07/94	110	911	26.56	-3.32
12/07/94	120	921	26.54	-3.34
12/07/94	130	931	26.50	-3.38
12/07/94	140	941	26.48	-3.40
12/07/94	150	951	26.45	-3.43
12/07/94	200	961	26.42	-3.46
12/07/94	210	971	26.39	-3.49
12/07/94	220	981	26.37	-3.51
12/07/94	230	991	26.34	-3.54
12/07/94	240	1001	26.30	-3.58
12/07/94	250	1011	26.28	-3.60
12/07/94	300	1021	26.25	-3.63
12/07/94	310	1031	26.23	-3.65
12/07/94	320	1041	26.20	-3.68
12/07/94	330	1051	26.17	-3.71
12/07/94	340	1061	26.15	-3.73
12/07/94	350	1071	26.12	-3.76
12/07/94	400	1081	26.09	-3.79
12/07/94	410	1091	26.07	-3.81
12/07/94	420	1101	26.03	-3.85

## PUMPING TEST

**WELL NO.:** IW9

**LOCATION:** Southwest of Reservoir

**STATIC WATER LEVEL:** 29.88 ft. (TOC)

**DATE OF TEST:** December 6 & 7, 1994

**DATA COLLECTION METHOD:** CR10

**DISTANCE TO PUMPING WELL:** 500 ft.

Date	Time (HH:MM)	Elapsed Time (min)	Depth to Water (feet)	Corrected Drawdown * (feet)
12/07/94	430	1111	26.01	-3.87
12/07/94	440	1121	25.99	-3.89
12/07/94	450	1131	25.96	-3.92
12/07/94	500	1141	25.94	-3.94
12/07/94	510	1151	25.91	-3.97
12/07/94	520	1161	25.87	-4.01
12/07/94	530	1171	25.86	-4.02
12/07/94	540	1181	25.83	-4.05
12/07/94	550	1191	25.82	-4.06
12/07/94	600	1201	25.80	-4.08
12/07/94	610	1211	25.78	-4.10
12/07/94	620	1221	25.75	-4.13
12/07/94	630	1231	25.72	-4.16
12/07/94	640	1241	25.70	-4.18
12/07/94	650	1251	25.67	-4.21
12/07/94	700	1261	25.64	-4.24
12/07/94	710	1271	25.63	-4.25
12/07/94	720	1281	25.59	-4.29
12/07/94	730	1291	25.57	-4.31
12/07/94	740	1301	25.55	-4.33
12/07/94	750	1311	25.52	-4.36
12/07/94	800	1321	25.49	-4.39
12/07/94	810	1331	25.47	-4.41
12/07/94	820	1341	25.45	-4.43
12/07/94	830	1351	25.42	-4.46
12/07/94	840	1361	25.40	-4.48
12/07/94	850	1371	25.37	-4.51
12/07/94	900	1381	25.35	-4.53
12/07/94	910	1391	25.33	-4.55

\* Corrected drawdown = Change in drawdown (ft.) + change in atmospheric pressure (ft.)

Calculation is necessary for CR10 transducers only

## RECOVERY TEST

**WELL NO.:** IW9

**DATE OF TEST:** December 7 & 8, 1994

**LOCATION:** Southwest of Reservoir

**DATA COLLECTION METHOD:** CR10

**STATIC WATER LEVEL:** 29.88 ft. (TOC)

**TOTAL PUMPING TIME:** 1470 min

Date	Time (HH:MM)	"t" Elapsed Time * (min)	"t" Time Since Pump Shut Off (min)	Depth to Water (feet)	Residual Drawdown (feet)
12/07/94	1030	1470	0	25.16	-4.72
12/07/94	1030	1470.5	0.5	25.16	-4.72
12/07/94	1031	1471	1	25.16	-4.72
12/07/94	1031	1471.5	1.5	25.16	-4.72
12/07/94	1032	1472	2	25.16	-4.72
12/07/94	1032	1472.5	2.5	25.16	-4.72
12/07/94	1033	1473	3	25.16	-4.72
12/07/94	1033	1473.5	3.5	25.16	-4.72
12/07/94	1034	1474	4	25.16	-4.72
12/07/94	1034	1474.5	4.5	25.15	-4.73
12/07/94	1035	1475	5	25.16	-4.72
12/07/94	1035	1475.5	5.5	25.16	-4.72
12/07/94	1036	1476	6	25.16	-4.72
12/07/94	1036	1476.5	6.5	25.16	-4.72
12/07/94	1037	1477	7	25.16	-4.72
12/07/94	1037	1477.5	7.5	25.15	-4.73
12/07/94	1038	1478	8	25.16	-4.72
12/07/94	1038	1478.5	8.5	25.16	-4.72
12/07/94	1039	1479	9	25.16	-4.72
12/07/94	1039	1479.5	9.5	25.16	-4.72
12/07/94	1040	1480	10	25.16	-4.72
12/07/94	1045	1485	15	25.16	-4.72
12/07/94	1050	1490	20	25.15	-4.73
12/07/94	1055	1495	25	25.15	-4.73
12/07/94	1100	1500	30	25.15	-4.73
12/07/94	1105	1505	35	25.15	-4.73
12/07/94	1110	1510	40	25.15	-4.73
12/07/94	1115	1515	45	25.15	-4.73
12/07/94	1120	1520	50	25.15	-4.73
12/07/94	1125	1525	55	25.15	-4.73
12/07/94	1130	1530	60	25.14	-4.74
12/07/94	1135	1535	65	25.14	-4.74
12/07/94	1140	1540	70	25.14	-4.74
12/07/94	1145	1545	75	25.14	-4.74
12/07/94	1150	1550	80	25.13	-4.75
12/07/94	1155	1555	85	25.13	-4.75
12/07/94	1200	1560	90	25.13	-4.75
12/07/94	1205	1565	95	25.13	-4.75
12/07/94	1210	1570	100	25.13	-4.75
12/07/94	1215	1575	105	25.13	-4.76
12/07/94	1220	1580	110	25.12	-4.76
12/07/94	1225	1585	115	25.12	-4.76
12/07/94	1230	1590	120	25.12	-4.76
12/07/94	1240	1600	130	25.12	-4.76
12/07/94	1250	1610	140	25.12	-4.76
12/07/94	1300	1620	150	25.11	-4.77
12/07/94	1310	1630	160	25.11	-4.77

# RECOVERY TEST

**WELL NO.: IW9**

**DATE OF TEST: December 7 & 8, 1994**

**LOCATION: Southwest of Reservoir**

**DATA COLLECTION METHOD: CR10**

**STATIC WATER LEVEL: 29.88 ft. (TOC)**

**TOTAL PUMPING TIME: 1470 min**

Date	Time (HH:MM)	Elapsed Time * (min)	Time Since Pump Shut Off (min)	Depth to Water (feet)	Residual Drawdown (feet)
12/07/94	1320	1640	170	25.11	-4.78
12/07/94	1330	1650	180	25.10	-4.78
12/07/94	1340	1660	190	25.10	-4.79
12/07/94	1350	1670	200	25.10	-4.79
12/07/94	1400	1680	210	25.09	-4.79
12/07/94	1410	1690	220	25.09	-4.79
12/07/94	1420	1700	230	25.09	-4.79
12/07/94	1430	1710	240	25.08	-4.80
12/07/94	1440	1720	250	25.08	-4.80
12/07/94	1450	1730	260	25.08	-4.80
12/07/94	1500	1740	270	25.07	-4.81
12/07/94	1510	1750	280	25.08	-4.81
12/07/94	1520	1760	290	25.07	-4.81
12/07/94	1530	1770	300	25.06	-4.82
12/07/94	1540	1780	310	25.07	-4.82
12/07/94	1550	1790	320	25.06	-4.82
12/07/94	1600	1800	330	25.06	-4.82
12/07/94	1610	1810	340	25.06	-4.83
12/07/94	1620	1820	350	25.05	-4.83
12/07/94	1630	1830	360	25.05	-4.83
12/07/94	1640	1840	370	25.05	-4.83
12/07/94	1650	1850	380	25.05	-4.83
12/07/94	1700	1860	390	25.04	-4.84
12/07/94	1710	1870	400	25.04	-4.84
12/07/94	1720	1880	410	25.04	-4.84
12/07/94	1730	1890	420	25.04	-4.84
12/07/94	1740	1900	430	25.03	-4.85
12/07/94	1750	1910	440	25.03	-4.85
12/07/94	1800	1920	450	25.03	-4.85
12/07/94	1810	1930	460	25.03	-4.85
12/07/94	1820	1940	470	25.03	-4.85
12/07/94	1830	1950	480	25.02	-4.86
12/07/94	1840	1960	490	25.02	-4.86
12/07/94	1850	1970	500	25.02	-4.87
12/07/94	1900	1980	510	25.01	-4.87
12/07/94	1910	1990	520	25.01	-4.87
12/07/94	1920	2000	530	25.01	-4.87
12/07/94	1930	2010	540	25.00	-4.88
12/07/94	1940	2020	550	25.00	-4.88
12/07/94	1950	2030	560	25.00	-4.88
12/07/94	2000	2040	570	25.00	-4.88
12/07/94	2010	2050	580	24.99	-4.89
12/07/94	2020	2060	590	24.99	-4.89
12/07/94	2030	2070	600	24.99	-4.89
12/07/94	2040	2080	610	24.99	-4.89
12/07/94	2050	2090	620	24.98	-4.90
12/07/94	2100	2100	630	24.98	-4.90



# RECOVERY TEST

**WELL NO.:** IW9

**DATE OF TEST:** December 7 & 8, 1994

**LOCATION:** Southwest of Reservoir

**DATA COLLECTION METHOD:** CR10

**STATIC WATER LEVEL:** 29.88 ft. (TOC)

**TOTAL PUMPING TIME:** 1470 min

Date	Time (HH:MM)	"t" Elapsed Time * (min)	"t" Time Since Pump Shut Off (min)	Depth to Water (feet)	Residual Drawdown (feet)
12/07/94	2110	2110	640	24.98	-4.90
12/07/94	2120	2120	650	24.98	-4.91
12/07/94	2130	2130	660	24.97	-4.91
12/07/94	2140	2140	670	24.97	-4.91
12/07/94	2150	2150	680	24.97	-4.92
12/07/94	2200	2160	690	24.97	-4.91
12/07/94	2210	2170	700	24.97	-4.92
12/07/94	2220	2180	710	24.96	-4.92
12/07/94	2230	2190	720	24.96	-4.92
12/07/94	2240	2200	730	24.95	-4.93
12/07/94	2250	2210	740	24.95	-4.93
12/07/94	2300	2220	750	24.95	-4.93
12/07/94	2310	2230	760	24.94	-4.94
12/07/94	2320	2240	770	24.94	-4.94
12/07/94	2330	2250	780	24.94	-4.94
12/07/94	2340	2260	790	24.94	-4.94
12/07/94	2350	2270	800	24.94	-4.94
12/08/94	0	2280	810	24.93	-4.95
12/08/94	10	2290	820	24.93	-4.95
12/08/94	20	2300	830	24.93	-4.96
12/08/94	30	2310	840	24.92	-4.96
12/08/94	40	2320	850	24.92	-4.96
12/08/94	50	2330	860	24.92	-4.96
12/08/94	100	2340	870	24.92	-4.97
12/08/94	110	2350	880	24.92	-4.97
12/08/94	120	2360	890	24.91	-4.97
12/08/94	130	2370	900	24.91	-4.97
12/08/94	140	2380	910	24.91	-4.97
12/08/94	150	2390	920	24.90	-4.98
12/08/94	200	2400	930	24.90	-4.98
12/08/94	210	2410	940	24.90	-4.99
12/08/94	220	2420	950	24.89	-4.99
12/08/94	230	2430	960	24.89	-4.99
12/08/94	240	2440	970	24.89	-4.99
12/08/94	250	2450	980	24.89	-5.00
12/08/94	300	2460	990	24.88	-5.00
12/08/94	310	2470	1000	24.88	-5.00
12/08/94	320	2480	1010	24.87	-5.01
12/08/94	330	2490	1020	24.88	-5.00
12/08/94	340	2500	1030	24.87	-5.01
12/08/94	350	2510	1040	24.87	-5.01
12/08/94	400	2520	1050	24.87	-5.01
12/08/94	410	2530	1060	24.86	-5.02
12/08/94	420	2540	1070	24.86	-5.02
12/08/94	430	2550	1080	24.86	-5.02
12/08/94	440	2560	1090	24.85	-5.03
12/08/94	450	2570	1100	24.85	-5.03

## RECOVERY TEST

**WELL NO.:** IW9

**DATE OF TEST:** December 7 & 8, 1994

**LOCATION:** Southwest of Reservoir

**DATA COLLECTION METHOD:** CR10

**STATIC WATER LEVEL:** 29.88 ft. (TOC)

**TOTAL PUMPING TIME:** 1470 min

Date	Time (HH:MM)	"t" Elapsed Time * (min)	"t" Time Since Pump Shut Off (min)	Depth to Water (feet)	Residual Drawdown (feet)
12/08/94	500	2580	1110	24.85	-5.03
12/08/94	510	2590	1120	24.85	-5.03
12/08/94	520	2600	1130	24.84	-5.04
12/08/94	530	2610	1140	24.84	-5.04
12/08/94	540	2620	1150	24.84	-5.04
12/08/94	550	2630	1160	24.84	-5.05
12/08/94	600	2640	1170	24.83	-5.05
12/08/94	610	2650	1180	24.83	-5.05
12/08/94	620	2660	1190	24.83	-5.05
12/08/94	630	2670	1200	24.83	-5.05
12/08/94	640	2680	1210	24.82	-5.06
12/08/94	650	2690	1220	24.82	-5.06
12/08/94	700	2700	1230	24.82	-5.06
12/08/94	710	2710	1240	24.82	-5.07
12/08/94	720	2720	1250	24.81	-5.07
12/08/94	730	2730	1260	24.81	-5.07
12/08/94	740	2740	1270	24.81	-5.07
12/08/94	750	2750	1280	24.81	-5.07
12/08/94	800	2760	1290	24.80	-5.08
12/08/94	810	2770	1300	24.80	-5.08
12/08/94	820	2780	1310	24.80	-5.08
12/08/94	830	2790	1320	24.79	-5.09
12/08/94	840	2800	1330	24.79	-5.09
12/08/94	850	2810	1340	24.79	-5.09
12/08/94	900	2820	1350	24.79	-5.09
12/08/94	910	2830	1360	24.79	-5.10
12/08/94	920	2840	1370	24.78	-5.10
12/08/94	930	2850	1380	24.78	-5.10
12/08/94	940	2860	1390	24.78	-5.10
12/08/94	950	2870	1400	24.77	-5.11
12/08/94	1000	2880	1410	24.78	-5.10
12/08/94	1010	2890	1420	24.77	-5.11
12/08/94	1020	2900	1430	24.77	-5.11

\* Elapsed Time = Time since pumping test began

# PUMPING TEST

**WELL NO.: DW9**

**DATE OF TEST: December 6 & 7, 1994**

**LOCATION: Southwest of Reservoir**

**DATA COLLECTION METHOD: CR10**

**STATIC WATER LEVEL: 22.01 ft. (TOC)**

**DISTANCE TO PUMPING WELL: 500 ft.**

Date	Time (HH:MM)	Elapsed Time (min)	Depth to Water (feet)	Corrected Drawdown * (feet)
12/06/94	1000	0	22.01	0.00
12/06/94	1000	0.5	22.01	0.00
12/06/94	1000	1	22.01	0.00
12/06/94	1001	1.5	22.00	-0.01
12/06/94	1001	2	22.01	0.00
12/06/94	1002	2.5	22.01	0.00
12/06/94	1002	3	22.01	0.00
12/06/94	1003	3.5	22.01	0.00
12/06/94	1003	4	22.02	0.01
12/06/94	1004	4.5	22.02	0.01
12/06/94	1004	5	22.03	0.02
12/06/94	1005	5.5	22.05	0.04
12/06/94	1005	6	22.06	0.05
12/06/94	1006	6.5	22.07	0.06
12/06/94	1006	7	22.08	0.07
12/06/94	1007	7.5	22.10	0.09
12/06/94	1007	8	22.11	0.10
12/06/94	1008	8.5	22.12	0.11
12/06/94	1008	9	22.13	0.12
12/06/94	1009	9.5	22.14	0.13
12/06/94	1010	10.5	22.17	0.16
12/06/94	1015	15.5	22.30	0.29
12/06/94	1020	20.5	22.40	0.39
12/06/94	1025	25.5	22.47	0.46
12/06/94	1030	30.5	22.51	0.50
12/06/94	1035	35.5	22.56	0.55
12/06/94	1040	40.5	22.58	0.57
12/06/94	1045	45.5	22.60	0.59
12/06/94	1050	50.5	22.61	0.60
12/06/94	1055	55.5	22.61	0.60
12/06/94	1100	60.5	22.62	0.61
12/06/94	1105	65.5	22.62	0.61
12/06/94	1110	70.5	22.63	0.62
12/06/94	1115	75.5	22.63	0.62
12/06/94	1120	80.5	22.64	0.63
12/06/94	1125	85.5	22.64	0.63
12/06/94	1130	90.5	22.65	0.64
12/06/94	1135	95.5	22.65	0.64
12/06/94	1140	100.5	22.65	0.64
12/06/94	1145	105.5	22.65	0.64
12/06/94	1150	110.5	22.65	0.64
12/06/94	1155	115.5	22.65	0.64
12/06/94	1200	120.5	22.65	0.64
12/06/94	1210	130.5	22.64	0.63
12/06/94	1220	140.5	22.64	0.63
12/06/94	1230	150.5	22.64	0.63
12/06/94	1240	160.5	22.63	0.62

# PUMPING TEST

**WELL NO.: DW9**

**DATE OF TEST: December 6 & 7, 1994**

**LOCATION: Southwest of Reservoir**

**DATA COLLECTION METHOD: CR10**

**STATIC WATER LEVEL: 22.01 ft. (TOC)**

**DISTANCE TO PUMPING WELL: 500 ft.**

Date	Time (HH:MM)	Elapsed Time (min)	Depth to Water (feet)	Corrected Drawdown * (feet)
12/06/94	1250	170.5	22.64	0.63
12/06/94	1300	180.5	22.63	0.62
12/06/94	1310	190.5	22.63	0.62
12/06/94	1320	200.5	22.63	0.62
12/06/94	1330	210.5	22.63	0.62
12/06/94	1340	220.5	22.63	0.62
12/06/94	1350	230.5	22.63	0.62
12/06/94	1400	240.5	22.63	0.62
12/06/94	1410	250.5	22.62	0.61
12/06/94	1420	260.5	22.62	0.61
12/06/94	1430	270.5	22.61	0.60
12/06/94	1440	280.5	22.61	0.60
12/06/94	1450	290.5	22.61	0.60
12/06/94	1500	300.5	22.61	0.60
12/06/94	1510	310.5	22.61	0.60
12/06/94	1520	320.5	22.61	0.60
12/06/94	1530	330.5	22.60	0.59
12/06/94	1540	340.5	22.60	0.59
12/06/94	1550	350.5	22.60	0.59
12/06/94	1600	360.5	22.60	0.59
12/06/94	1610	370.5	22.60	0.59
12/06/94	1620	380.5	22.60	0.59
12/06/94	1630	390.5	22.59	0.58
12/06/94	1640	400.5	22.59	0.58
12/06/94	1650	410.5	22.59	0.58
12/06/94	1700	420.5	22.58	0.57
12/06/94	1710	430.5	22.58	0.57
12/06/94	1720	440.5	22.58	0.57
12/06/94	1730	450.5	22.58	0.57
12/06/94	1740	460.5	22.58	0.57
12/06/94	1750	470.5	22.58	0.57
12/06/94	1800	480.5	22.58	0.57
12/06/94	1810	490.5	22.57	0.56
12/06/94	1820	500.5	22.57	0.56
12/06/94	1830	510.5	22.57	0.56
12/06/94	1840	520.5	22.57	0.56
12/06/94	1850	530.5	22.56	0.55
12/06/94	1900	540.5	22.56	0.55
12/06/94	1910	550.5	22.56	0.55
12/06/94	1920	560.5	22.55	0.54
12/06/94	1930	570.5	22.56	0.55
12/06/94	1940	580.5	22.56	0.55
12/06/94	1950	590.5	22.56	0.55
12/06/94	2000	600.5	22.56	0.55
12/06/94	2010	610.5	22.56	0.55
12/06/94	2020	620.5	22.56	0.55
12/06/94	2030	630.5	22.55	0.54

## PUMPING TEST

**WELL NO.:** DW9

**DATE OF TEST:** December 6 & 7, 1994

**LOCATION:** Southwest of Reservoir

**DATA COLLECTION METHOD:** CR10

**STATIC WATER LEVEL:** 22.01 ft. (TOC)

**DISTANCE TO PUMPING WELL:** 500 ft.

Date	Time (HH:MM)	Elapsed Time (min)	Depth to Water (feet)	Corrected Drawdown * (feet)
12/06/94	2040	640.5	22.56	0.55
12/06/94	2050	650.5	22.56	0.55
12/06/94	2100	660.5	22.55	0.54
12/06/94	2110	670.5	22.54	0.53
12/06/94	2120	680.5	22.54	0.53
12/06/94	2130	690.5	22.54	0.53
12/06/94	2140	701	22.54	0.53
12/06/94	2150	711	22.54	0.53
12/06/94	2200	721	22.53	0.52
12/06/94	2210	731	22.53	0.52
12/06/94	2220	741	22.53	0.52
12/06/94	2230	751	22.53	0.52
12/06/94	2240	761	22.52	0.51
12/06/94	2250	771	22.52	0.51
12/06/94	2300	781	22.52	0.51
12/06/94	2310	791	22.51	0.50
12/06/94	2320	801	22.51	0.50
12/06/94	2330	811	22.51	0.50
12/06/94	2340	821	22.51	0.50
12/06/94	2350	831	22.51	0.50
12/07/94	0	841	22.51	0.50
12/07/94	10	851	22.50	0.49
12/07/94	20	861	22.50	0.49
12/07/94	30	871	22.50	0.49
12/07/94	40	881	22.49	0.48
12/07/94	50	891	22.49	0.48
12/07/94	100	901	22.49	0.48
12/07/94	110	911	22.49	0.48
12/07/94	120	921	22.48	0.47
12/07/94	130	931	22.49	0.48
12/07/94	140	941	22.49	0.48
12/07/94	150	951	22.48	0.47
12/07/94	200	961	22.48	0.47
12/07/94	210	971	22.48	0.47
12/07/94	220	981	22.48	0.47
12/07/94	230	991	22.47	0.46
12/07/94	240	1001	22.47	0.46
12/07/94	250	1011	22.46	0.45
12/07/94	300	1021	22.47	0.46
12/07/94	310	1031	22.46	0.45
12/07/94	320	1041	22.46	0.45
12/07/94	330	1051	22.45	0.44
12/07/94	340	1061	22.45	0.44
12/07/94	350	1071	22.45	0.44
12/07/94	400	1081	22.45	0.44
12/07/94	410	1091	22.44	0.43
12/07/94	420	1101	22.44	0.43

# PUMPING TEST

**WELL NO.:** DW9

**DATE OF TEST:** December 6 & 7, 1994

**LOCATION:** Southwest of Reservoir

**DATA COLLECTION METHOD:** CR10

**STATIC WATER LEVEL:** 22.01 ft. (TOC)

**DISTANCE TO PUMPING WELL:** 500 ft.

Date	Time (HH:MM)	Elapsed Time (min)	Depth to Water (feet)	Corrected Drawdown * (feet)
12/07/94	430	1111	22.44	0.43
12/07/94	440	1121	22.43	0.42
12/07/94	450	1131	22.44	0.43
12/07/94	500	1141	22.43	0.42
12/07/94	510	1151	22.42	0.41
12/07/94	520	1161	22.43	0.42
12/07/94	530	1171	22.42	0.41
12/07/94	540	1181	22.42	0.41
12/07/94	550	1191	22.42	0.41
12/07/94	600	1201	22.43	0.42
12/07/94	610	1211	22.42	0.41
12/07/94	620	1221	22.42	0.41
12/07/94	630	1231	22.42	0.41
12/07/94	640	1241	22.41	0.40
12/07/94	650	1251	22.41	0.40
12/07/94	700	1261	22.41	0.40
12/07/94	710	1271	22.40	0.39
12/07/94	720	1281	22.40	0.39
12/07/94	730	1291	22.40	0.39
12/07/94	740	1301	22.40	0.39
12/07/94	750	1311	22.40	0.39
12/07/94	800	1321	22.40	0.39
12/07/94	810	1331	22.39	0.38
12/07/94	820	1341	22.39	0.38
12/07/94	830	1351	22.38	0.37
12/07/94	840	1361	22.37	0.36
12/07/94	850	1371	22.38	0.37
12/07/94	900	1381	22.38	0.37
12/07/94	910	1391	22.37	0.36

\* Corrected drawdown = Change in drawdown (ft.) + change in atmospheric pressure (ft.)  
Calculation is necessary for CR10 transducers only

# RECOVERY TEST

**WELL NO.:** DW9

**DATE OF TEST:** December 7 & 8, 1994

**LOCATION:** Southwest of Reservoir

**DATA COLLECTION METHOD:** CR10

**STATIC WATER LEVEL:** 22.01 ft. (TOC)

**TOTAL PUMPING TIME:** 1470 min

Date	Time (HH:MM)	"t" Elapsed Time * (min)	"t" Time Since Pump Shut Off (min)	Depth to Water (feet)	Residual Drawdown (feet)
12/07/94	1030	1470	0	22.36	0.35
12/07/94	1030	1470.5	0.5	22.36	0.35
12/07/94	1031	1471	1	22.36	0.35
12/07/94	1031	1471.5	1.5	22.36	0.35
12/07/94	1032	1472	2	22.35	0.34
12/07/94	1032	1472.5	2.5	22.34	0.33
12/07/94	1033	1473	3	22.33	0.33
12/07/94	1033	1473.5	3.5	22.33	0.32
12/07/94	1034	1474	4	22.32	0.31
12/07/94	1034	1474.5	4.5	22.31	0.30
12/07/94	1035	1475	5	22.30	0.29
12/07/94	1035	1475.5	5.5	22.28	0.27
12/07/94	1036	1476	6	22.27	0.26
12/07/94	1036	1476.5	6.5	22.26	0.25
12/07/94	1037	1477	7	22.25	0.24
12/07/94	1037	1477.5	7.5	22.23	0.22
12/07/94	1038	1478	8	22.22	0.21
12/07/94	1038	1478.5	8.5	22.21	0.20
12/07/94	1039	1479	9	22.19	0.18
12/07/94	1039	1479.5	9.5	22.18	0.17
12/07/94	1040	1480	10	22.16	0.15
12/07/94	1045	1485	15	22.04	0.03
12/07/94	1050	1490	20	21.95	-0.06
12/07/94	1055	1495	25	21.89	-0.12
12/07/94	1100	1500	30	21.84	-0.17
12/07/94	1105	1505	35	21.81	-0.20
12/07/94	1110	1510	40	21.77	-0.24
12/07/94	1115	1515	45	21.75	-0.26
12/07/94	1120	1520	50	21.73	-0.28
12/07/94	1125	1525	55	21.72	-0.29
12/07/94	1130	1530	60	21.71	-0.30
12/07/94	1135	1535	65	21.70	-0.31
12/07/94	1140	1540	70	21.69	-0.32
12/07/94	1145	1545	75	21.68	-0.33
12/07/94	1150	1550	80	21.68	-0.33
12/07/94	1155	1555	85	21.67	-0.34
12/07/94	1200	1560	90	21.67	-0.34
12/07/94	1205	1565	95	21.66	-0.35
12/07/94	1210	1570	100	21.66	-0.35
12/07/94	1215	1575	105	21.65	-0.36
12/07/94	1220	1580	110	21.65	-0.36
12/07/94	1225	1585	115	21.65	-0.36
12/07/94	1230	1590	120	21.65	-0.36
12/07/94	1240	1600	130	21.64	-0.37
12/07/94	1250	1610	140	21.64	-0.37
12/07/94	1300	1620	150	21.63	-0.38
12/07/94	1310	1630	160	21.62	-0.39

## RECOVERY TEST

**WELL NO.:** DW9

**DATE OF TEST:** December 7 & 8, 1994

**LOCATION:** Southwest of Reservoir

**DATA COLLECTION METHOD:** CR10

**STATIC WATER LEVEL:** 22.01 ft. (TOC)

**TOTAL PUMPING TIME:** 1470 min

Date	Time (HH:MM)	"t" Elapsed Time * (min)	"t" Time Since Pump Shut Off (min)	Depth to Water (feet)	Residual Drawdown (feet)
12/07/94	1320	1640	170	21.62	-0.39
12/07/94	1330	1650	180	21.62	-0.39
12/07/94	1340	1660	190	21.61	-0.40
12/07/94	1350	1670	200	21.61	-0.40
12/07/94	1400	1680	210	21.61	-0.40
12/07/94	1410	1690	220	21.61	-0.40
12/07/94	1420	1700	230	21.59	-0.42
12/07/94	1430	1710	240	21.59	-0.42
12/07/94	1440	1720	250	21.59	-0.42
12/07/94	1450	1730	260	21.58	-0.43
12/07/94	1500	1740	270	21.58	-0.43
12/07/94	1510	1750	280	21.58	-0.43
12/07/94	1520	1760	290	21.58	-0.43
12/07/94	1530	1770	300	21.57	-0.44
12/07/94	1540	1780	310	21.57	-0.44
12/07/94	1550	1790	320	21.57	-0.44
12/07/94	1600	1800	330	21.57	-0.44
12/07/94	1610	1810	340	21.57	-0.44
12/07/94	1620	1820	350	21.57	-0.44
12/07/94	1630	1830	360	21.57	-0.44
12/07/94	1640	1840	370	21.56	-0.45
12/07/94	1650	1850	380	21.56	-0.45
12/07/94	1700	1860	390	21.55	-0.46
12/07/94	1710	1870	400	21.55	-0.46
12/07/94	1720	1880	410	21.55	-0.46
12/07/94	1730	1890	420	21.55	-0.46
12/07/94	1740	1900	430	21.54	-0.47
12/07/94	1750	1910	440	21.54	-0.47
12/07/94	1800	1920	450	21.54	-0.47
12/07/94	1810	1930	460	21.54	-0.47
12/07/94	1820	1940	470	21.54	-0.47
12/07/94	1830	1950	480	21.53	-0.48
12/07/94	1840	1960	490	21.53	-0.48
12/07/94	1850	1970	500	21.53	-0.48
12/07/94	1900	1980	510	21.52	-0.49
12/07/94	1910	1990	520	21.52	-0.49
12/07/94	1920	2000	530	21.52	-0.49
12/07/94	1930	2010	540	21.51	-0.50
12/07/94	1940	2020	550	21.52	-0.49
12/07/94	1950	2030	560	21.51	-0.50
12/07/94	2000	2040	570	21.52	-0.49
12/07/94	2010	2050	580	21.51	-0.50
12/07/94	2020	2060	590	21.51	-0.50
12/07/94	2030	2070	600	21.51	-0.50
12/07/94	2040	2080	610	21.50	-0.51
12/07/94	2050	2090	620	21.50	-0.51
12/07/94	2100	2100	630	21.50	-0.51



# RECOVERY TEST

**WELL NO.:** DW9

**DATE OF TEST:** December 7 & 8, 1994

**LOCATION:** Southwest of Reservoir

**DATA COLLECTION METHOD:** CR10

**STATIC WATER LEVEL:** 22.01 ft. (TOC)

**TOTAL PUMPING TIME:** 1470 min

Date	Time (HH:MM)	"t" Elapsed Time * (min)	"t" Time Since Pump Shut Off (min)	Depth to Water (feet)	Residual Drawdown (feet)
12/07/94	2110	2110	640	21.50	-0.51
12/07/94	2120	2120	650	21.49	-0.52
12/07/94	2130	2130	660	21.49	-0.52
12/07/94	2140	2140	670	21.49	-0.52
12/07/94	2150	2150	680	21.48	-0.53
12/07/94	2200	2160	690	21.48	-0.53
12/07/94	2210	2170	700	21.48	-0.53
12/07/94	2220	2180	710	21.48	-0.53
12/07/94	2230	2190	720	21.48	-0.53
12/07/94	2240	2200	730	21.47	-0.54
12/07/94	2250	2210	740	21.47	-0.54
12/07/94	2300	2220	750	21.47	-0.54
12/07/94	2310	2230	760	21.46	-0.55
12/07/94	2320	2240	770	21.46	-0.55
12/07/94	2330	2250	780	21.46	-0.55
12/07/94	2340	2260	790	21.47	-0.54
12/07/94	2350	2270	800	21.46	-0.55
12/08/94	0	2280	810	21.46	-0.55
12/08/94	10	2290	820	21.46	-0.55
12/08/94	20	2300	830	21.45	-0.56
12/08/94	30	2310	840	21.45	-0.56
12/08/94	40	2320	850	21.45	-0.56
12/08/94	50	2330	860	21.45	-0.56
12/08/94	100	2340	870	21.45	-0.56
12/08/94	110	2350	880	21.45	-0.56
12/08/94	120	2360	890	21.45	-0.56
12/08/94	130	2370	900	21.45	-0.56
12/08/94	140	2380	910	21.45	-0.56
12/08/94	150	2390	920	21.44	-0.57
12/08/94	200	2400	930	21.44	-0.57
12/08/94	210	2410	940	21.44	-0.57
12/08/94	220	2420	950	21.44	-0.57
12/08/94	230	2430	960	21.43	-0.58
12/08/94	240	2440	970	21.43	-0.58
12/08/94	250	2450	980	21.43	-0.58
12/08/94	300	2460	990	21.43	-0.58
12/08/94	310	2470	1000	21.42	-0.59
12/08/94	320	2480	1010	21.42	-0.59
12/08/94	330	2490	1020	21.42	-0.59
12/08/94	340	2500	1030	21.41	-0.60
12/08/94	350	2510	1040	21.41	-0.60
12/08/94	400	2520	1050	21.41	-0.60
12/08/94	410	2530	1060	21.40	-0.61
12/08/94	420	2540	1070	21.40	-0.61
12/08/94	430	2550	1080	21.40	-0.61
12/08/94	440	2560	1090	21.40	-0.61
12/08/94	450	2570	1100	21.40	-0.61

## RECOVERY TEST

**WELL NO.: DW9**

**DATE OF TEST:** December 7 & 8, 1994

**LOCATION:** Southwest of Reservoir

**DATA COLLECTION METHOD:** CR10

**STATIC WATER LEVEL:** 22.01 ft. (TOC)

**TOTAL PUMPING TIME:** 1470 min

Date	Time (HH:MM)	"t" Elapsed Time * (min)	"t" Time Since Pump Shut Off (min)	Depth to Water (feet)	Residual Drawdown (feet)
12/08/94	500	2580	1110	21.40	-0.61
12/08/94	510	2590	1120	21.40	-0.61
12/08/94	520	2600	1130	21.40	-0.61
12/08/94	530	2610	1140	21.39	-0.62
12/08/94	540	2620	1150	21.39	-0.62
12/08/94	550	2630	1160	21.39	-0.62
12/08/94	600	2640	1170	21.39	-0.62
12/08/94	610	2650	1180	21.39	-0.62
12/08/94	620	2660	1190	21.38	-0.63
12/08/94	630	2670	1200	21.38	-0.63
12/08/94	640	2680	1210	21.37	-0.64
12/08/94	650	2690	1220	21.37	-0.64
12/08/94	700	2700	1230	21.37	-0.64
12/08/94	710	2710	1240	21.36	-0.65
12/08/94	720	2720	1250	21.36	-0.65
12/08/94	730	2730	1260	21.36	-0.65
12/08/94	740	2740	1270	21.35	-0.66
12/08/94	750	2750	1280	21.35	-0.66
12/08/94	800	2760	1290	21.35	-0.66
12/08/94	810	2770	1300	21.35	-0.66
12/08/94	820	2780	1310	21.35	-0.66
12/08/94	830	2790	1320	21.35	-0.66
12/08/94	840	2800	1330	21.35	-0.66
12/08/94	850	2810	1340	21.35	-0.66
12/08/94	900	2820	1350	21.35	-0.66
12/08/94	910	2830	1360	21.35	-0.66
12/08/94	920	2840	1370	21.34	-0.67
12/08/94	930	2850	1380	21.35	-0.66
12/08/94	940	2860	1390	21.34	-0.67
12/08/94	950	2870	1400	21.33	-0.68
12/08/94	1000	2880	1410	21.34	-0.67
12/08/94	1010	2890	1420	21.34	-0.67
12/08/94	1020	2900	1430	21.33	-0.68

\* Elapsed Time = Time since pumping test began

## PUMPING TEST

**WELL NO.:** SW10

**DATE OF TEST:** December 6 & 7, 1994

**LOCATION:** Parking Lot, East of Plant

**DATA COLLECTION METHOD:** Hand

**STATIC WATER LEVEL:** 16.31 ft. (TOC)

**DISTANCE TO PUMPING WELL:** 860 ft.

Date	Time (HH:MM)	Elapsed Time (min)	Depth to Water (feet)	Drawdown (feet)
12/06/94	1037	37	16.31	0.00
12/06/94	1236	156	16.35	0.04
12/06/94	1402	242	16.37	0.06
12/06/94	1510	310	16.36	0.05
12/06/94	1609	369	16.36	0.05
12/06/94	1707	427	16.39	0.08
12/06/94	1811	491	16.39	0.08
12/06/94	1912	552	16.40	0.09
12/06/94	2007	607	16.42	0.11
12/06/94	2118	678	16.40	0.09
12/06/94	2235	755	16.42	0.11
12/06/94	2307	787	16.42	0.11
12/07/94	6	846	16.42	0.11
12/07/94	104	904	16.42	0.11
12/07/94	204	964	16.44	0.13
12/07/94	304	1024	16.43	0.12
12/07/94	403	1083	16.44	0.13
12/07/94	507	1147	16.43	0.12
12/07/94	610	1210	16.44	0.13
12/07/94	720	1280	16.44	0.13
12/07/94	806	1326	16.44	0.13
12/07/94	913	1393	16.44	0.13

## RECOVERY TEST

<b>WELL NO.:</b> SW10 <b>LOCATION:</b> Parking Lot, East of Plant <b>STATIC WATER LEVEL:</b> 16.31 ft. (TOC)	<b>DATE OF TEST:</b> December 7 & 8, 1994 <b>DATA COLLECTION METHOD:</b> Hand <b>TOTAL PUMPING TIME:</b> 1470 min
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Date	Time (HH:MM)	"t" Elapsed Time * (min)	"t" Time Since Pump Shut Off (min)	Depth to Water (feet)	Residual Drawdown (feet)
12/07/94	1058	1498	28	16.43	0.12
12/07/94	1201	1561	91	16.41	0.10
12/07/94	1312	1632	162	16.38	0.07
12/07/94	1406	1686	216	16.39	0.08
12/07/94	1505	1745	275	16.37	0.06
12/07/94	1604	1804	334	16.37	0.06
12/07/94	1725	1885	415	16.38	0.07
12/07/94	1803	1923	453	16.37	0.06
12/07/94	1901	1981	511	16.36	0.05
12/07/94	2009	2049	579	16.37	0.06
12/07/94	2104	2104	634	16.32	0.01
12/07/94	2202	2162	692	16.37	0.06
12/08/94	715	2715	1245	16.35	0.04

\* Elapsed time = Time since pumping began

## PUMPING TEST

**WELL NO.: DW10**

**DATE OF TEST:** December 6 & 7, 1994

**LOCATION:** Parking Lot, East of Plant

**DATA COLLECTION METHOD:** Hand

**STATIC WATER LEVEL:** 16.38 ft. (TOC)

**DISTANCE TO PUMPING WELL:** 860 ft.

Date	Time (HH:MM)	Elapsed Time (min)	Depth to Water (feet)	Drawdown (feet)
12/06/94	1037	7.00	16.43	0.05
12/06/94	1235	125.00	16.48	0.10
12/06/94	1403	213.00	16.52	0.14
12/06/94	1511	281.00	16.51	0.13
12/06/94	1610	340.00	16.52	0.14
12/06/94	1708	398.00	16.54	0.16
12/06/94	1812	462.00	16.54	0.16
12/06/94	1913	523.00	16.55	0.17
12/06/94	2008	578.00	16.57	0.19
12/06/94	2119	649.00	16.56	0.18
12/06/94	2234	724.00	16.58	0.20
12/06/94	2305	755.00	16.59	0.21
12/07/94	5	815.00	16.58	0.20
12/07/94	103	873.00	16.58	0.20
12/07/94	202	932.00	16.59	0.21
12/07/94	303	993.00	16.60	0.22
12/07/94	402	1052.00	16.60	0.22
12/07/94	506	1116.00	16.60	0.22
12/07/94	609	1179.00	16.60	0.22
12/07/94	719	1249.00	16.60	0.22
12/07/94	806	1296.00	16.60	0.22
12/07/94	912	1362.00	16.60	0.22

## RECOVERY TEST

**WELL NO.:** DW10

**LOCATION:** Parking Lot, East of Plant

**STATIC WATER LEVEL:** 16.38 ft. (TOC)

**DATE OF TEST:** December 7 & 8, 1994

**DATA COLLECTION METHOD:** Hand

**TOTAL PUMPING TIME:** 1470 min

Date	Time (HH:MM)	"t"	"t"	Depth to Water (feet)	Residual Drawdown (feet)
		Elapsed Time * (min)	Time Since Pump Shut Off (min)		
12/07/94	1030	1470	0	16.60	0.22
12/07/94	1059	1499	29	16.57	0.19
12/07/94	1202	1562	92	16.51	0.13
12/07/94	1313	1633	163	16.48	0.10
12/07/94	1407	1687	217	16.48	0.10
12/07/94	1506	1746	276	16.47	0.09
12/07/94	1605	1805	335	16.47	0.09
12/07/94	1726	1886	416	16.47	0.09
12/07/94	1804	1924	454	16.47	0.09
12/07/94	1902	1982	512	16.47	0.09
12/07/94	2010	2050	580	16.47	0.09
12/07/94	2105	2105	635	16.46	0.08
12/07/94	2203	2163	693	16.46	0.08
12/08/94	716	2716	1246	16.43	0.05

\* Elapsed time = Time since pumping began

# PUMPING TEST

**WELL NO.:** SW11

**DATE OF TEST:** December 6 & 7, 1994

**LOCATION:** Rear Parking Lot, South of Plant

**DATA COLLECTION METHOD:** Hermit

**STATIC WATER LEVEL:** 12.25 ft. (TOC)

**DISTANCE TO PUMPING WELL:** 600 ft.

Date	Time (HH:MM)	Elapsed Time (min)	Depth to Water (feet)	Drawdown (feet)
12/06/94	1000.00	0.00	12.25	0.00
12/06/94	1000.00	0.00	12.25	0.00
12/06/94	1000.01	0.01	12.25	0.00
12/06/94	1000.01	0.01	12.25	0.00
12/06/94	1000.01	0.01	12.25	0.00
12/06/94	1000.02	0.02	12.25	0.00
12/06/94	1000.02	0.02	12.25	0.00
12/06/94	1000.02	0.02	12.25	0.00
12/06/94	1000.03	0.03	12.25	0.00
12/06/94	1000.03	0.03	12.25	0.00
12/06/94	1000.03	0.03	12.25	0.00
12/06/94	1000.05	0.05	12.25	0.00
12/06/94	1000.07	0.07	12.25	0.00
12/06/94	1000.08	0.08	12.25	0.00
12/06/94	1000.10	0.10	12.25	0.00
12/06/94	1000.12	0.12	12.25	0.00
12/06/94	1000.13	0.13	12.25	0.00
12/06/94	1000.15	0.15	12.25	0.00
12/06/94	1000.17	0.17	12.25	0.00
12/06/94	1000.18	0.18	12.25	0.00
12/06/94	1000.20	0.20	12.25	0.00
12/06/94	1000.22	0.22	12.25	0.00
12/06/94	1000.23	0.23	12.25	0.00
12/06/94	1000.25	0.25	12.25	0.00
12/06/94	1000.27	0.27	12.25	0.00
12/06/94	1000.28	0.28	12.25	0.00
12/06/94	1000.30	0.30	12.25	0.00
12/06/94	1000.32	0.32	12.25	0.00
12/06/94	1000.33	0.33	12.25	0.00
12/06/94	1000.42	0.42	12.25	0.00
12/06/94	1000.50	0.50	12.25	0.00
12/06/94	1000.58	0.58	12.25	0.00
12/06/94	1000.67	0.67	12.25	0.00
12/06/94	1000.75	0.75	12.25	0.00
12/06/94	1000.83	0.83	12.25	0.00
12/06/94	1000.92	0.92	12.25	0.00
12/06/94	1001.00	1.00	12.25	0.00
12/06/94	1001.08	1.08	12.25	0.00
12/06/94	1001.17	1.17	12.25	0.00
12/06/94	1001.25	1.25	12.25	0.00
12/06/94	1001.33	1.33	12.25	0.00
12/06/94	1001.42	1.42	12.25	0.00
12/06/94	1001.50	1.50	12.25	0.00
12/06/94	1001.58	1.58	12.25	0.00
12/06/94	1001.67	1.67	12.25	0.00
12/06/94	1001.75	1.75	12.25	0.00
12/06/94	1001.83	1.83	12.25	0.00

# PUMPING TEST

**WELL NO.:** SW11

**DATE OF TEST:** December 6 & 7, 1994

**LOCATION:** Rear Parking Lot, South of Plant

**DATA COLLECTION METHOD:** Hermit

**STATIC WATER LEVEL:** 12.25 ft. (TOC)

**DISTANCE TO PUMPING WELL:** 600 ft.

Date	Time (HH:MM)	Elapsed Time (min)	Depth to Water (feet)	Drawdown (feet)
12/06/94	1001.92	1.92	12.25	0.00
12/06/94	1002.00	2.00	12.25	0.00
12/06/94	1002.50	2.50	12.25	0.00
12/06/94	1003.00	3.00	12.25	0.00
12/06/94	1003.50	3.50	12.25	0.00
12/06/94	1004.00	4.00	12.25	0.00
12/06/94	1004.50	4.50	12.25	0.00
12/06/94	1005.00	5.00	12.25	0.00
12/06/94	1005.50	5.50	12.25	0.00
12/06/94	1006.00	6.00	12.25	0.00
12/06/94	1006.50	6.50	12.25	0.00
12/06/94	1007.00	7.00	12.25	0.00
12/06/94	1007.50	7.50	12.25	0.00
12/06/94	1008.00	8.00	12.25	0.00
12/06/94	1008.50	8.50	12.25	0.00
12/06/94	1009.00	9.00	12.25	0.00
12/06/94	1009.50	9.50	12.25	0.00
12/06/94	1010.00	10.00	12.25	0.00
12/06/94	1012.00	12.00	12.25	0.00
12/06/94	1014.00	14.00	12.25	0.00
12/06/94	1016.00	16.00	12.25	0.00
12/06/94	1018.00	18.00	12.25	0.00
12/06/94	1020.00	20.00	12.25	0.00
12/06/94	1022.00	22.00	12.26	0.01
12/06/94	1024.00	24.00	12.25	0.00
12/06/94	1026.00	26.00	12.25	0.00
12/06/94	1028.00	28.00	12.26	0.01
12/06/94	1030.00	30.00	12.25	0.00
12/06/94	1032.00	32.00	12.25	0.00
12/06/94	1034.00	34.00	12.25	0.00
12/06/94	1036.00	36.00	12.25	0.00
12/06/94	1038.00	38.00	12.25	0.00
12/06/94	1040.00	40.00	12.25	0.00
12/06/94	1042.00	42.00	12.25	0.00
12/06/94	1044.00	44.00	12.25	0.00
12/06/94	1046.00	46.00	12.25	0.00
12/06/94	1048.00	48.00	12.25	0.00
12/06/94	1050.00	50.00	12.26	0.01
12/06/94	1052.00	52.00	12.25	0.00
12/06/94	1054.00	54.00	12.25	0.00
12/06/94	1056.00	56.00	12.25	0.00
12/06/94	1058.00	58.00	12.25	0.00
12/06/94	1100.00	60.00	12.25	0.00
12/06/94	1102.00	62.00	12.25	0.00
12/06/94	1104.00	64.00	12.25	0.00
12/06/94	1106.00	66.00	12.25	0.00
12/06/94	1108.00	68.00	12.25	0.00



# PUMPING TEST

**WELL NO.:** SW11

**DATE OF TEST:** December 6 & 7, 1994

**LOCATION:** Rear Parking Lot, South of Plant

**DATA COLLECTION METHOD:** Hermit

**STATIC WATER LEVEL:** 12.25 ft. (TOC)

**DISTANCE TO PUMPING WELL:** 600 ft.

Date	Time (HH:MM)	Elapsed Time (min)	Depth to Water (feet)	Drawdown (feet)
12/06/94	1110.00	70.00	12.25	0.00
12/06/94	1112.00	72.00	12.25	0.00
12/06/94	1114.00	74.00	12.25	0.00
12/06/94	1116.00	76.00	12.25	0.00
12/06/94	1118.00	78.00	12.25	0.00
12/06/94	1120.00	80.00	12.25	0.00
12/06/94	1122.00	82.00	12.25	0.00
12/06/94	1124.00	84.00	12.25	0.00
12/06/94	1126.00	86.00	12.25	0.00
12/06/94	1128.00	88.00	12.25	0.00
12/06/94	1130.00	90.00	12.25	0.00
12/06/94	1132.00	92.00	12.25	0.00
12/06/94	1134.00	94.00	12.25	0.00
12/06/94	1136.00	96.00	12.25	0.00
12/06/94	1138.00	98.00	12.25	0.00
12/06/94	1140.00	100.00	12.25	0.00
12/06/94	1150.00	110.00	12.25	0.00
12/06/94	1200.00	120.00	12.25	0.00
12/06/94	1210.00	130.00	12.25	0.00
12/06/94	1220.00	140.00	12.25	0.00
12/06/94	1230.00	150.00	12.25	0.00
12/06/94	1240.00	160.00	12.26	0.01
12/06/94	1250.00	170.00	12.26	0.01
12/06/94	1300.00	180.00	12.26	0.01
12/06/94	1310.00	190.00	12.26	0.01
12/06/94	1320.00	200.00	12.26	0.01
12/06/94	1330.00	210.00	12.26	0.01
12/06/94	1340.00	220.00	12.26	0.01
12/06/94	1350.00	230.00	12.26	0.01
12/06/94	1400.00	240.00	12.26	0.01
12/06/94	1410.00	250.00	12.26	0.01
12/06/94	1420.00	260.00	12.27	0.02
12/06/94	1430.00	270.00	12.26	0.01
12/06/94	1440.00	280.00	12.27	0.02
12/06/94	1450.00	290.00	12.27	0.02
12/06/94	1500.00	300.00	12.27	0.02
12/06/94	1510.00	310.00	12.27	0.02
12/06/94	1520.00	320.00	12.27	0.02
12/06/94	1530.00	330.00	12.27	0.02
12/06/94	1540.00	340.00	12.27	0.02
12/06/94	1550.00	350.00	12.27	0.02
12/06/94	1600.00	360.00	12.28	0.03
12/06/94	1610.00	370.00	12.27	0.02
12/06/94	1620.00	380.00	12.27	0.02
12/06/94	1630.00	390.00	12.28	0.03
12/06/94	1640.00	400.00	12.28	0.03
12/06/94	1650.00	410.00	12.28	0.03

# PUMPING TEST

**WELL NO.: SW11**

**DATE OF TEST:** December 6 & 7, 1994

**LOCATION:** Rear Parking Lot, South of Plant

**DATA COLLECTION METHOD:** Hermit

**STATIC WATER LEVEL:** 12.25 ft. (TOC)

**DISTANCE TO PUMPING WELL:** 600 ft.

Date	Time (HH:MM)	Elapsed Time (min)	Depth to Water (feet)	Drawdown (feet)
12/06/94	1700.00	420.00	12.28	0.03
12/06/94	1710.00	430.00	12.28	0.03
12/06/94	1720.00	440.00	12.28	0.03
12/06/94	1730.00	450.00	12.28	0.03
12/06/94	1740.00	460.00	12.28	0.03
12/06/94	1750.00	470.00	12.29	0.04
12/06/94	1800.00	480.00	12.29	0.04
12/06/94	1810.00	490.00	12.29	0.04
12/06/94	1820.00	500.00	12.29	0.04
12/06/94	1830.00	510.00	12.29	0.04
12/06/94	1840.00	520.00	12.29	0.04
12/06/94	1850.00	530.00	12.29	0.04
12/06/94	1900.00	540.00	12.29	0.04
12/06/94	1910.00	550.00	12.29	0.04
12/06/94	1920.00	560.00	12.29	0.04
12/06/94	1930.00	570.00	12.30	0.05
12/06/94	1940.00	580.00	12.30	0.05
12/06/94	1950.00	590.00	12.30	0.05
12/06/94	2000.00	600.00	12.30	0.05
12/06/94	2010.00	610.00	12.31	0.06
12/06/94	2020.00	620.00	12.31	0.06
12/06/94	2030.00	630.00	12.31	0.06
12/06/94	2040.00	640.00	12.31	0.06
12/06/94	2050.00	650.00	12.31	0.06
12/06/94	2100.00	660.00	12.31	0.06
12/06/94	2110.00	670.00	12.31	0.06
12/06/94	2120.00	680.00	12.31	0.06
12/06/94	2130.00	690.00	12.31	0.06
12/06/94	2140.00	700.00	12.31	0.06
12/06/94	2150.00	710.00	12.31	0.06
12/06/94	2200.00	720.00	12.31	0.06
12/06/94	2210.00	730.00	12.32	0.07
12/06/94	2220.00	740.00	12.32	0.07
12/06/94	2230.00	750.00	12.32	0.07
12/06/94	2240.00	760.00	12.32	0.07
12/06/94	2250.00	770.00	12.32	0.07
12/06/94	2300.00	780.00	12.32	0.07
12/06/94	2310.00	790.00	12.32	0.07
12/06/94	2320.00	800.00	12.32	0.07
12/06/94	2330.00	810.00	12.32	0.07
12/06/94	2340.00	820.00	12.33	0.08
12/06/94	2350.00	830.00	12.32	0.07
12/07/94	0.00	840.00	12.32	0.07
12/07/94	10.00	850.00	12.32	0.07
12/07/94	20.00	860.00	12.32	0.07
12/07/94	30.00	870.00	12.32	0.07
12/07/94	40.00	880.00	12.32	0.07

# PUMPING TEST

**WELL NO.:** SW11

**DATE OF TEST:** December 6 & 7, 1994

**LOCATION:** Rear Parking Lot, South of Plant

**DATA COLLECTION METHOD:** Hermit

**STATIC WATER LEVEL:** 12.25 ft. (TOC)

**DISTANCE TO PUMPING WELL:** 600 ft.

Date	Time (HH:MM)	Elapsed Time (min)	Depth to Water (feet)	Drawdown (feet)
12/07/94	50.00	890.00	12.32	0.07
12/07/94	100.00	900.00	12.33	0.08
12/07/94	110.00	910.00	12.33	0.08
12/07/94	120.00	920.00	12.32	0.07
12/07/94	130.00	930.00	12.33	0.08
12/07/94	140.00	940.00	12.33	0.08
12/07/94	150.00	950.00	12.33	0.08
12/07/94	200.00	960.00	12.33	0.08
12/07/94	210.00	970.00	12.33	0.08
12/07/94	220.00	980.00	12.33	0.08
12/07/94	230.00	990.00	12.33	0.08
12/07/94	240.00	1000.00	12.33	0.08
12/07/94	255.00	1015.00	12.33	0.08
12/07/94	310.00	1030.00	12.33	0.08
12/07/94	325.00	1045.00	12.33	0.08
12/07/94	340.00	1060.00	12.33	0.08
12/07/94	355.00	1075.00	12.33	0.08
12/07/94	410.00	1090.00	12.33	0.08
12/07/94	425.00	1105.00	12.33	0.08
12/07/94	440.00	1120.00	12.33	0.08
12/07/94	455.00	1135.00	12.33	0.08
12/07/94	510.00	1150.00	12.34	0.09
12/07/94	525.00	1165.00	12.33	0.08
12/07/94	540.00	1180.00	12.33	0.08
12/07/94	555.00	1195.00	12.33	0.08
12/07/94	610.00	1210.00	12.34	0.09
12/07/94	625.00	1225.00	12.34	0.09
12/07/94	640.00	1240.00	12.34	0.09
12/07/94	655.00	1255.00	12.34	0.09
12/07/94	710.00	1270.00	12.34	0.09
12/07/94	725.00	1285.00	12.34	0.09
12/07/94	740.00	1300.00	12.34	0.09
12/07/94	755.00	1315.00	12.33	0.08
12/07/94	810.00	1330.00	12.33	0.08
12/07/94	825.00	1345.00	12.33	0.08
12/07/94	840.00	1360.00	12.33	0.08
12/07/94	855.00	1375.00	12.33	0.08
12/07/94	910.00	1390.00	12.34	0.09
12/07/94	925.00	1405.00	12.34	0.09
12/07/94	940.00	1420.00	12.34	0.09

# RECOVERY TEST

**WELL NO.:** SW11

**DATE OF TEST:** December 7 & 8, 1994

**LOCATION:** Rear Parking Lot, South of Plant

**DATA COLLECTION METHOD:** Hermit

**STATIC WATER LEVEL:** 12.25 ft. (TOC)

**TOTAL PUMPING TIME:** 1470 min

Date	Time (HH:MM)	"t" Elapsed Time * (min)	"t" Time Since Pump Shut Off (min)	Depth to Water (feet)	Residual Drawdown (feet)
12/07/94	1030.00	1470.00	0.00	12.33	0.08
12/07/94	1030.00	1470.00	0.00	12.33	0.08
12/07/94	1030.01	1470.01	0.01	12.34	0.09
12/07/94	1030.01	1470.01	0.01	12.33	0.08
12/07/94	1030.01	1470.01	0.01	12.34	0.09
12/07/94	1030.02	1470.02	0.02	12.34	0.09
12/07/94	1030.02	1470.02	0.02	12.33	0.08
12/07/94	1030.02	1470.02	0.02	12.33	0.08
12/07/94	1030.03	1470.03	0.03	12.34	0.09
12/07/94	1030.03	1470.03	0.03	12.33	0.08
12/07/94	1030.03	1470.03	0.03	12.34	0.09
12/07/94	1030.05	1470.05	0.05	12.33	0.08
12/07/94	1030.07	1470.07	0.07	12.33	0.08
12/07/94	1030.08	1470.08	0.08	12.34	0.09
12/07/94	1030.10	1470.10	0.10	12.33	0.08
12/07/94	1030.12	1470.12	0.12	12.33	0.08
12/07/94	1030.13	1470.13	0.13	12.34	0.09
12/07/94	1030.15	1470.15	0.15	12.34	0.09
12/07/94	1030.17	1470.17	0.17	12.33	0.08
12/07/94	1030.18	1470.18	0.18	12.33	0.08
12/07/94	1030.20	1470.20	0.20	12.34	0.09
12/07/94	1030.22	1470.22	0.22	12.33	0.08
12/07/94	1030.23	1470.23	0.23	12.33	0.08
12/07/94	1030.25	1470.25	0.25	12.33	0.08
12/07/94	1030.27	1470.27	0.27	12.33	0.08
12/07/94	1030.28	1470.28	0.28	12.34	0.09
12/07/94	1030.30	1470.30	0.30	12.34	0.09
12/07/94	1030.32	1470.32	0.32	12.34	0.09
12/07/94	1030.33	1470.33	0.33	12.34	0.09
12/07/94	1030.42	1470.42	0.42	12.33	0.08
12/07/94	1030.50	1470.50	0.50	12.34	0.09
12/07/94	1030.58	1470.58	0.58	12.33	0.08
12/07/94	1030.67	1470.67	0.67	12.34	0.09
12/07/94	1030.75	1470.75	0.75	12.34	0.09
12/07/94	1030.83	1470.83	0.83	12.33	0.08
12/07/94	1030.92	1470.92	0.92	12.34	0.09
12/07/94	1031.00	1471.00	1.00	12.33	0.08
12/07/94	1031.08	1471.08	1.08	12.33	0.08
12/07/94	1031.17	1471.17	1.17	12.33	0.08
12/07/94	1031.25	1471.25	1.25	12.34	0.09
12/07/94	1031.33	1471.33	1.33	12.34	0.09
12/07/94	1031.42	1471.42	1.42	12.34	0.09
12/07/94	1031.50	1471.50	1.50	12.34	0.09
12/07/94	1031.58	1471.58	1.58	12.33	0.08
12/07/94	1031.67	1471.67	1.67	12.33	0.08
12/07/94	1031.75	1471.75	1.75	12.33	0.08
12/07/94	1031.83	1471.83	1.83	12.33	0.08

# RECOVERY TEST

**WELL NO.: SW11**

**DATE OF TEST:** December 7 & 8, 1994

**LOCATION:** Rear Parking Lot, South of Plant

**DATA COLLECTION METHOD:** Hermit

**STATIC WATER LEVEL:** 12.25 ft. (TOC)

**TOTAL PUMPING TIME:** 1470 min

Date	Time (HH:MM)	"t" Elapsed Time * (min)	"t" Time Since Pump Shut Off (min)	Depth to Water (feet)	Residual Drawdown (feet)
12/07/94	1031.92	1471.92	1.92	12.33	0.08
12/07/94	1032.00	1472.00	2.00	12.34	0.09
12/07/94	1032.50	1472.50	2.50	12.34	0.09
12/07/94	1033.00	1473.00	3.00	12.33	0.08
12/07/94	1033.50	1473.50	3.50	12.33	0.08
12/07/94	1034.00	1474.00	4.00	12.34	0.09
12/07/94	1034.50	1474.50	4.50	12.33	0.08
12/07/94	1035.00	1475.00	5.00	12.33	0.08
12/07/94	1035.50	1475.50	5.50	12.34	0.09
12/07/94	1036.00	1476.00	6.00	12.33	0.08
12/07/94	1036.50	1476.50	6.50	12.33	0.08
12/07/94	1037.00	1477.00	7.00	12.33	0.08
12/07/94	1037.50	1477.50	7.50	12.33	0.08
12/07/94	1038.00	1478.00	8.00	12.34	0.09
12/07/94	1038.50	1478.50	8.50	12.33	0.08
12/07/94	1039.00	1479.00	9.00	12.34	0.09
12/07/94	1039.50	1479.50	9.50	12.34	0.09
12/07/94	1040.00	1480.00	10.00	12.34	0.09
12/07/94	1042.00	1482.00	12.00	12.34	0.09
12/07/94	1044.00	1484.00	14.00	12.34	0.09
12/07/94	1046.00	1486.00	16.00	12.34	0.09
12/07/94	1048.00	1488.00	18.00	12.34	0.09
12/07/94	1050.00	1490.00	20.00	12.33	0.08
12/07/94	1052.00	1492.00	22.00	12.33	0.08
12/07/94	1054.00	1494.00	24.00	12.34	0.09
12/07/94	1056.00	1496.00	26.00	12.34	0.09
12/07/94	1058.00	1498.00	28.00	12.34	0.09
12/07/94	1100.00	1500.00	30.00	12.34	0.09
12/07/94	1102.00	1502.00	32.00	12.34	0.09
12/07/94	1104.00	1504.00	34.00	12.34	0.09
12/07/94	1106.00	1506.00	36.00	12.34	0.09
12/07/94	1108.00	1508.00	38.00	12.34	0.09
12/07/94	1110.00	1510.00	40.00	12.33	0.08
12/07/94	1112.00	1512.00	42.00	12.33	0.08
12/07/94	1114.00	1514.00	44.00	12.33	0.08
12/07/94	1116.00	1516.00	46.00	12.33	0.08
12/07/94	1118.00	1518.00	48.00	12.33	0.08
12/07/94	1120.00	1520.00	50.00	12.33	0.08
12/07/94	1122.00	1522.00	52.00	12.33	0.08
12/07/94	1124.00	1524.00	54.00	12.33	0.08
12/07/94	1126.00	1526.00	56.00	12.33	0.08
12/07/94	1128.00	1528.00	58.00	12.33	0.08
12/07/94	1130.00	1530.00	60.00	12.33	0.08
12/07/94	1132.00	1532.00	62.00	12.33	0.08
12/07/94	1134.00	1534.00	64.00	12.33	0.08
12/07/94	1136.00	1536.00	66.00	12.33	0.08
12/07/94	1138.00	1538.00	68.00	12.33	0.08

# RECOVERY TEST

**WELL NO.: SW11**

**DATE OF TEST:** December 7 & 8, 1994

**LOCATION:** Rear Parking Lot, South of Plant

**DATA COLLECTION METHOD:** Hermit

**STATIC WATER LEVEL:** 12.25 ft. (TOC)

**TOTAL PUMPING TIME:** 1470 min

Date	Time (HH:MM)	"t" Elapsed Time * (min)	"t" Time Since Pump Shut Off (min)	Depth to Water (feet)	Residual Drawdown (feet)
12/07/94	1140.00	1540.00	70.00	12.33	0.08
12/07/94	1142.00	1542.00	72.00	12.33	0.08
12/07/94	1144.00	1544.00	74.00	12.33	0.08
12/07/94	1146.00	1546.00	76.00	12.33	0.08
12/07/94	1148.00	1548.00	78.00	12.33	0.08
12/07/94	1150.00	1550.00	80.00	12.33	0.08
12/07/94	1152.00	1552.00	82.00	12.33	0.08
12/07/94	1154.00	1554.00	84.00	12.33	0.08
12/07/94	1156.00	1556.00	86.00	12.33	0.08
12/07/94	1158.00	1558.00	88.00	12.33	0.08
12/07/94	1200.00	1560.00	90.00	12.33	0.08
12/07/94	1202.00	1562.00	92.00	12.33	0.08
12/07/94	1204.00	1564.00	94.00	12.33	0.08
12/07/94	1206.00	1566.00	96.00	12.33	0.08
12/07/94	1208.00	1568.00	98.00	12.33	0.08
12/07/94	1210.00	1570.00	100.00	12.33	0.08
12/07/94	1220.00	1580.00	110.00	12.33	0.08
12/07/94	1230.00	1590.00	120.00	12.34	0.09
12/07/94	1240.00	1600.00	130.00	12.34	0.09
12/07/94	1250.00	1610.00	140.00	12.33	0.08
12/07/94	1300.00	1620.00	150.00	12.33	0.08
12/07/94	1310.00	1630.00	160.00	12.33	0.08
12/07/94	1320.00	1640.00	170.00	12.34	0.09
12/07/94	1330.00	1650.00	180.00	12.34	0.09
12/07/94	1340.00	1660.00	190.00	12.34	0.09
12/07/94	1350.00	1670.00	200.00	12.33	0.08
12/07/94	1400.00	1680.00	210.00	12.34	0.09
12/07/94	1410.00	1690.00	220.00	12.34	0.09
12/07/94	1420.00	1700.00	230.00	12.34	0.09
12/07/94	1430.00	1710.00	240.00	12.34	0.09
12/07/94	1440.00	1720.00	250.00	12.34	0.09
12/07/94	1450.00	1730.00	260.00	12.34	0.09
12/07/94	1500.00	1740.00	270.00	12.34	0.09
12/07/94	1510.00	1750.00	280.00	12.34	0.09
12/07/94	1520.00	1760.00	290.00	12.34	0.09
12/07/94	1530.00	1770.00	300.00	12.34	0.09
12/07/94	1540.00	1780.00	310.00	12.34	0.09
12/07/94	1550.00	1790.00	320.00	12.34	0.09
12/07/94	1600.00	1800.00	330.00	12.35	0.10
12/07/94	1610.00	1810.00	340.00	12.35	0.10
12/07/94	1620.00	1820.00	350.00	12.35	0.10
12/07/94	1630.00	1830.00	360.00	12.35	0.10
12/07/94	1640.00	1840.00	370.00	12.35	0.10
12/07/94	1650.00	1850.00	380.00	12.35	0.10
12/07/94	1700.00	1860.00	390.00	12.35	0.10
12/07/94	1710.00	1870.00	400.00	12.35	0.10
12/07/94	1720.00	1880.00	410.00	12.35	0.10

## RECOVERY TEST

**WELL NO.: SW11**

**DATE OF TEST: December 7 & 8, 1994**

**LOCATION: Rear Parking Lot, South of Plant**

**DATA COLLECTION METHOD: Hermit**

**STATIC WATER LEVEL: 12.25 ft. (TOC)**

**TOTAL PUMPING TIME: 1470 min**

Date	Time (HH:MM)	"t" Elapsed Time * (min)	"t" Time Since Pump Shut Off (min)	Depth to Water (feet)	Residual Drawdown (feet)
12/07/94	1730.00	1890.00	420.00	12.35	0.10
12/07/94	1740.00	1900.00	430.00	12.36	0.11
12/07/94	1750.00	1910.00	440.00	12.35	0.10
12/07/94	1800.00	1920.00	450.00	12.35	0.10
12/07/94	1810.00	1930.00	460.00	12.36	0.11
12/07/94	1820.00	1940.00	470.00	12.36	0.11
12/07/94	1830.00	1950.00	480.00	12.36	0.11
12/07/94	1840.00	1960.00	490.00	12.36	0.11
12/07/94	1850.00	1970.00	500.00	12.36	0.11
12/07/94	1900.00	1980.00	510.00	12.36	0.11
12/07/94	1910.00	1990.00	520.00	12.36	0.11
12/07/94	1920.00	2000.00	530.00	12.36	0.11
12/07/94	1930.00	2010.00	540.00	12.36	0.11
12/07/94	1940.00	2020.00	550.00	12.37	0.12
12/07/94	1950.00	2030.00	560.00	12.37	0.12
12/07/94	2000.00	2040.00	570.00	12.37	0.12
12/07/94	2010.00	2050.00	580.00	12.37	0.12
12/07/94	2020.00	2060.00	590.00	12.37	0.12
12/07/94	2030.00	2070.00	600.00	12.37	0.12
12/07/94	2040.00	2080.00	610.00	12.37	0.12
12/07/94	2050.00	2090.00	620.00	12.37	0.12
12/07/94	2100.00	2100.00	630.00	12.37	0.12
12/07/94	2110.00	2110.00	640.00	12.37	0.12
12/07/94	2120.00	2120.00	650.00	12.37	0.12
12/07/94	2130.00	2130.00	660.00	12.36	0.11
12/07/94	2140.00	2140.00	670.00	12.35	0.10
12/07/94	2150.00	2150.00	680.00	12.36	0.11
12/07/94	2200.00	2160.00	690.00	12.35	0.10
12/07/94	2210.00	2170.00	700.00	12.35	0.10
12/07/94	2220.00	2180.00	710.00	12.35	0.10
12/07/94	2230.00	2190.00	720.00	12.35	0.10
12/07/94	2240.00	2200.00	730.00	12.35	0.10
12/07/94	2250.00	2210.00	740.00	12.35	0.10
12/07/94	2300.00	2220.00	750.00	12.35	0.10
12/07/94	2310.00	2230.00	760.00	12.35	0.10
12/07/94	2320.00	2240.00	770.00	12.35	0.10
12/07/94	2330.00	2250.00	780.00	12.35	0.10
12/07/94	2340.00	2260.00	790.00	12.35	0.10
12/07/94	2350.00	2270.00	800.00	12.36	0.11
12/08/94	0.00	2280.00	810.00	12.35	0.10
12/08/94	10.00	2290.00	820.00	12.35	0.10
12/08/94	20.00	2300.00	830.00	12.36	0.11
12/08/94	30.00	2310.00	840.00	12.36	0.11
12/08/94	40.00	2320.00	850.00	12.36	0.11
12/08/94	50.00	2330.00	860.00	12.36	0.11
12/08/94	100.00	2340.00	870.00	12.36	0.11
12/08/94	110.00	2350.00	880.00	12.37	0.12

## RECOVERY TEST

**WELL NO.: SW11**

**DATE OF TEST:** December 7 & 8, 1994

**LOCATION:** Rear Parking Lot, South of Plant

**DATA COLLECTION METHOD:** Hermit

**STATIC WATER LEVEL:** 12.25 ft. (TOC)

**TOTAL PUMPING TIME:** 1470 min

Date	Time (HH:MM)	"t" Elapsed Time * (min)	"t" Time Since Pump Shut Off (min)	Depth to Water (feet)	Residual Drawdown (feet)
12/08/94	120.00	2360.00	890.00	12.37	0.12
12/08/94	130.00	2370.00	900.00	12.37	0.12
12/08/94	140.00	2380.00	910.00	12.37	0.12
12/08/94	150.00	2390.00	920.00	12.37	0.12
12/08/94	200.00	2400.00	930.00	12.37	0.12
12/08/94	210.00	2410.00	940.00	12.37	0.12
12/08/94	220.00	2420.00	950.00	12.37	0.12
12/08/94	230.00	2430.00	960.00	12.37	0.12
12/08/94	240.00	2440.00	970.00	12.37	0.12
12/08/94	250.00	2450.00	980.00	12.37	0.12
12/08/94	300.00	2460.00	990.00	12.37	0.12
12/08/94	310.00	2470.00	1000.00	12.37	0.12
12/08/94	325.00	2485.00	1015.00	12.37	0.12
12/08/94	340.00	2500.00	1030.00	12.37	0.12
12/08/94	355.00	2515.00	1045.00	12.37	0.12
12/08/94	410.00	2530.00	1060.00	12.37	0.12
12/08/94	425.00	2545.00	1075.00	12.38	0.13
12/08/94	440.00	2560.00	1090.00	12.38	0.13
12/08/94	455.00	2575.00	1105.00	12.38	0.13
12/08/94	510.00	2590.00	1120.00	12.38	0.13
12/08/94	525.00	2605.00	1135.00	12.38	0.13
12/08/94	540.00	2620.00	1150.00	12.38	0.13
12/08/94	555.00	2635.00	1165.00	12.38	0.13
12/08/94	610.00	2650.00	1180.00	12.39	0.14
12/08/94	625.00	2665.00	1195.00	12.38	0.13
12/08/94	640.00	2680.00	1210.00	12.39	0.14
12/08/94	655.00	2695.00	1225.00	12.39	0.14
12/08/94	710.00	2710.00	1240.00	12.39	0.14
12/08/94	725.00	2725.00	1255.00	12.39	0.14
12/08/94	740.00	2740.00	1270.00	12.39	0.14
12/08/94	755.00	2755.00	1285.00	12.39	0.14
12/08/94	810.00	2770.00	1300.00	12.40	0.15
12/08/94	825.00	2785.00	1315.00	12.40	0.15
12/08/94	840.00	2800.00	1330.00	12.40	0.15
12/08/94	855.00	2815.00	1345.00	12.40	0.15
12/08/94	910.00	2830.00	1360.00	12.41	0.16
12/08/94	925.00	2845.00	1375.00	12.40	0.15
12/08/94	940.00	2860.00	1390.00	12.41	0.16
12/08/94	955.00	2875.00	1405.00	12.41	0.16
12/08/94	1010.00	2890.00	1420.00	12.40	0.15
12/08/94	1025.00	2905.00	1435.00	12.41	0.16
12/08/94	1040.00	2920.00	1450.00	12.40	0.15
12/08/94	1055.00	2935.00	1465.00	12.40	0.15
12/08/94	1110.00	2950.00	1480.00	12.40	0.15

\* Elapsed time = Time since pumping test began



# PUMPING TEST

**WELL NO.: DW11**

**DATE OF TEST: December 6 & 7, 1994**

**LOCATION: Rear Parking Lot, South of Plant**

**DATA COLLECTION METHOD: Hermit**

**STATIC WATER LEVEL: 15.23 ft. (TOC)**

**DISTANCE TO PUMPING WELL: 600 ft.**

Date	Time (HH:MM)	Elapsed Time (min)	Depth to Water (feet)	Drawdown (feet)
12/06/94	1000.00	0.00	15.23	0.00
12/06/94	1000.00	0.00	15.23	0.00
12/06/94	1000.01	0.01	15.23	0.00
12/06/94	1000.01	0.01	15.23	0.00
12/06/94	1000.01	0.01	15.23	0.00
12/06/94	1000.02	0.02	15.23	0.00
12/06/94	1000.02	0.02	15.23	0.00
12/06/94	1000.02	0.02	15.23	0.00
12/06/94	1000.03	0.03	15.23	0.00
12/06/94	1000.03	0.03	15.23	0.00
12/06/94	1000.03	0.03	15.23	0.00
12/06/94	1000.05	0.05	15.23	0.00
12/06/94	1000.07	0.07	15.23	0.00
12/06/94	1000.08	0.08	15.23	0.00
12/06/94	1000.10	0.10	15.23	0.00
12/06/94	1000.12	0.12	15.23	0.00
12/06/94	1000.13	0.13	15.23	0.00
12/06/94	1000.15	0.15	15.23	0.00
12/06/94	1000.17	0.17	15.23	0.00
12/06/94	1000.18	0.18	15.23	0.00
12/06/94	1000.20	0.20	15.23	0.00
12/06/94	1000.22	0.22	15.23	0.00
12/06/94	1000.23	0.23	15.23	0.00
12/06/94	1000.25	0.25	15.23	0.00
12/06/94	1000.27	0.27	15.23	0.00
12/06/94	1000.28	0.28	15.23	0.00
12/06/94	1000.30	0.30	15.23	0.00
12/06/94	1000.32	0.32	15.23	0.00
12/06/94	1000.33	0.33	15.23	0.00
12/06/94	1000.42	0.42	15.23	0.00
12/06/94	1000.50	0.50	15.23	0.00
12/06/94	1000.58	0.58	15.23	0.00
12/06/94	1000.67	0.67	15.23	0.00
12/06/94	1000.75	0.75	15.23	0.00
12/06/94	1000.83	0.83	15.23	0.00
12/06/94	1000.92	0.92	15.23	0.00
12/06/94	1001.00	1.00	15.23	0.00
12/06/94	1001.08	1.08	15.23	0.00
12/06/94	1001.17	1.17	15.23	0.00
12/06/94	1001.25	1.25	15.23	0.00
12/06/94	1001.33	1.33	15.23	0.00
12/06/94	1001.42	1.42	15.23	0.00
12/06/94	1001.50	1.50	15.23	0.00
12/06/94	1001.58	1.58	15.23	0.00
12/06/94	1001.67	1.67	15.23	0.00
12/06/94	1001.75	1.75	15.23	0.00
12/06/94	1001.83	1.83	15.23	0.00

# PUMPING TEST

**WELL NO.: DW11**

**DATE OF TEST:** December 6 & 7, 1994

**LOCATION:** Rear Parking Lot, South of Plant

**DATA COLLECTION METHOD:** Hermit

**STATIC WATER LEVEL:** 15.23 ft. (TOC)

**DISTANCE TO PUMPING WELL:** 600 ft.

Date	Time (HH:MM)	Elapsed Time (min)	Depth to Water (feet)	Drawdown (feet)
12/06/94	1001.92	1.92	15.23	0.00
12/06/94	1002.00	2.00	15.23	0.00
12/06/94	1002.50	2.50	15.23	0.00
12/06/94	1003.00	3.00	15.23	0.00
12/06/94	1003.50	3.50	15.24	0.01
12/06/94	1004.00	4.00	15.24	0.01
12/06/94	1004.50	4.50	15.25	0.02
12/06/94	1005.00	5.00	15.26	0.03
12/06/94	1005.50	5.50	15.27	0.04
12/06/94	1006.00	6.00	15.28	0.05
12/06/94	1006.50	6.50	15.29	0.06
12/06/94	1007.00	7.00	15.30	0.07
12/06/94	1007.50	7.50	15.30	0.07
12/06/94	1008.00	8.00	15.31	0.08
12/06/94	1008.50	8.50	15.32	0.09
12/06/94	1009.00	9.00	15.33	0.10
12/06/94	1009.50	9.50	15.34	0.11
12/06/94	1010.00	10.00	15.35	0.12
12/06/94	1012.00	12.00	15.38	0.15
12/06/94	1014.00	14.00	15.40	0.17
12/06/94	1016.00	16.00	15.43	0.20
12/06/94	1018.00	18.00	15.44	0.21
12/06/94	1020.00	20.00	15.46	0.23
12/06/94	1022.00	22.00	15.48	0.25
12/06/94	1024.00	24.00	15.49	0.26
12/06/94	1026.00	26.00	15.51	0.28
12/06/94	1028.00	28.00	15.51	0.28
12/06/94	1030.00	30.00	15.52	0.29
12/06/94	1032.00	32.00	15.53	0.30
12/06/94	1034.00	34.00	15.54	0.31
12/06/94	1036.00	36.00	15.55	0.32
12/06/94	1038.00	38.00	15.56	0.33
12/06/94	1040.00	40.00	15.56	0.33
12/06/94	1042.00	42.00	15.57	0.34
12/06/94	1044.00	44.00	15.57	0.34
12/06/94	1046.00	46.00	15.58	0.35
12/06/94	1048.00	48.00	15.58	0.35
12/06/94	1050.00	50.00	15.58	0.35
12/06/94	1052.00	52.00	15.59	0.36
12/06/94	1054.00	54.00	15.59	0.36
12/06/94	1056.00	56.00	15.60	0.37
12/06/94	1058.00	58.00	15.60	0.37
12/06/94	1100.00	60.00	15.60	0.37
12/06/94	1102.00	62.00	15.60	0.37
12/06/94	1104.00	64.00	15.61	0.38
12/06/94	1106.00	66.00	15.61	0.38
12/06/94	1108.00	68.00	15.61	0.38

# PUMPING TEST

**WELL NO.:** DW11

**DATE OF TEST:** December 6 & 7, 1994

**LOCATION:** Rear Parking Lot, South of Plant

**DATA COLLECTION METHOD:** Hermit

**STATIC WATER LEVEL:** 15.23 ft. (TOC)

**DISTANCE TO PUMPING WELL:** 600 ft.

Date	Time (HH:MM)	Elapsed Time (min)	Depth to Water (feet)	Drawdown (feet)
12/06/94	1110.00	70.00	15.62	0.39
12/06/94	1112.00	72.00	15.62	0.39
12/06/94	1114.00	74.00	15.62	0.39
12/06/94	1116.00	76.00	15.63	0.40
12/06/94	1118.00	78.00	15.63	0.40
12/06/94	1120.00	80.00	15.63	0.40
12/06/94	1122.00	82.00	15.63	0.40
12/06/94	1124.00	84.00	15.63	0.40
12/06/94	1126.00	86.00	15.64	0.41
12/06/94	1128.00	88.00	15.64	0.41
12/06/94	1130.00	90.00	15.64	0.41
12/06/94	1132.00	92.00	15.64	0.41
12/06/94	1134.00	94.00	15.64	0.41
12/06/94	1136.00	96.00	15.65	0.42
12/06/94	1138.00	98.00	15.65	0.42
12/06/94	1140.00	100.00	15.65	0.42
12/06/94	1150.00	110.00	15.66	0.43
12/06/94	1200.00	120.00	15.66	0.43
12/06/94	1210.00	130.00	15.67	0.44
12/06/94	1220.00	140.00	15.67	0.44
12/06/94	1230.00	150.00	15.68	0.45
12/06/94	1240.00	160.00	15.68	0.45
12/06/94	1250.00	170.00	15.69	0.46
12/06/94	1300.00	180.00	15.69	0.46
12/06/94	1310.00	190.00	15.70	0.47
12/06/94	1320.00	200.00	15.70	0.47
12/06/94	1330.00	210.00	15.70	0.47
12/06/94	1340.00	220.00	15.71	0.48
12/06/94	1350.00	230.00	15.71	0.48
12/06/94	1400.00	240.00	15.72	0.49
12/06/94	1410.00	250.00	15.72	0.49
12/06/94	1420.00	260.00	15.72	0.49
12/06/94	1430.00	270.00	15.72	0.49
12/06/94	1440.00	280.00	15.73	0.50
12/06/94	1450.00	290.00	15.73	0.50
12/06/94	1500.00	300.00	15.73	0.50
12/06/94	1510.00	310.00	15.73	0.50
12/06/94	1520.00	320.00	15.73	0.50
12/06/94	1530.00	330.00	15.73	0.50
12/06/94	1540.00	340.00	15.74	0.51
12/06/94	1550.00	350.00	15.74	0.51
12/06/94	1600.00	360.00	15.74	0.51
12/06/94	1610.00	370.00	15.74	0.51
12/06/94	1620.00	380.00	15.74	0.51
12/06/94	1630.00	390.00	15.75	0.52
12/06/94	1640.00	400.00	15.75	0.52
12/06/94	1650.00	410.00	15.75	0.52

## PUMPING TEST

**WELL NO.:** DW11      **DATE OF TEST:** December 6 & 7, 1994  
**LOCATION:** Rear Parking Lot, South of Plant      **DATA COLLECTION METHOD:** Hermit  
**STATIC WATER LEVEL:** 15.23 ft. (TOC)      **DISTANCE TO PUMPING WELL:** 600 ft.

Date	Time (HH:MM)	Elapsed Time (min)	Depth to Water (feet)	Drawdown (feet)
12/06/94	1700.00	420.00	15.75	0.52
12/06/94	1710.00	430.00	15.75	0.52
12/06/94	1720.00	440.00	15.75	0.52
12/06/94	1730.00	450.00	15.76	0.53
12/06/94	1740.00	460.00	15.76	0.53
12/06/94	1750.00	470.00	15.76	0.53
12/06/94	1800.00	480.00	15.76	0.53
12/06/94	1810.00	490.00	15.77	0.54
12/06/94	1820.00	500.00	15.76	0.53
12/06/94	1830.00	510.00	15.76	0.53
12/06/94	1840.00	520.00	15.77	0.54
12/06/94	1850.00	530.00	15.77	0.54
12/06/94	1900.00	540.00	15.77	0.54
12/06/94	1910.00	550.00	15.77	0.54
12/06/94	1920.00	560.00	15.77	0.54
12/06/94	1930.00	570.00	15.78	0.55
12/06/94	1940.00	580.00	15.78	0.55
12/06/94	1950.00	590.00	15.78	0.55
12/06/94	2000.00	600.00	15.78	0.55
12/06/94	2010.00	610.00	15.78	0.55
12/06/94	2020.00	620.00	15.78	0.55
12/06/94	2030.00	630.00	15.79	0.56
12/06/94	2040.00	640.00	15.79	0.56
12/06/94	2050.00	650.00	15.79	0.56
12/06/94	2100.00	660.00	15.79	0.56
12/06/94	2110.00	670.00	15.79	0.56
12/06/94	2120.00	680.00	15.79	0.56
12/06/94	2130.00	690.00	15.79	0.56
12/06/94	2140.00	700.00	15.79	0.56
12/06/94	2150.00	710.00	15.79	0.56
12/06/94	2200.00	720.00	15.79	0.56
12/06/94	2210.00	730.00	15.79	0.56
12/06/94	2220.00	740.00	15.79	0.56
12/06/94	2230.00	750.00	15.80	0.57
12/06/94	2240.00	760.00	15.80	0.57
12/06/94	2250.00	770.00	15.80	0.57
12/06/94	2300.00	780.00	15.80	0.57
12/06/94	2310.00	790.00	15.80	0.57
12/06/94	2320.00	800.00	15.80	0.57
12/06/94	2330.00	810.00	15.80	0.57
12/06/94	2340.00	820.00	15.80	0.57
12/06/94	2350.00	830.00	15.80	0.57
12/07/94	0.00	840.00	15.80	0.57
12/07/94	10.00	850.00	15.80	0.57
12/07/94	20.00	860.00	15.80	0.57
12/07/94	30.00	870.00	15.80	0.57
12/07/94	40.00	880.00	15.80	0.57

# PUMPING TEST

WELL NO.: DW11

DATE OF TEST: December 6 & 7, 1994

LOCATION: Rear Parking Lot, South of Plant

DATA COLLECTION METHOD: Hermit

STATIC WATER LEVEL: 15.23 ft. (TOC)

DISTANCE TO PUMPING WELL: 600 ft.

Date	Time (HH:MM)	Elapsed Time (min)	Depth to Water (feet)	Drawdown (feet)
12/07/94	50.00	890.00	15.81	0.58
12/07/94	100.00	900.00	15.81	0.58
12/07/94	110.00	910.00	15.81	0.58
12/07/94	120.00	920.00	15.81	0.58
12/07/94	130.00	930.00	15.81	0.58
12/07/94	140.00	940.00	15.81	0.58
12/07/94	150.00	950.00	15.81	0.58
12/07/94	200.00	960.00	15.81	0.58
12/07/94	210.00	970.00	15.81	0.58
12/07/94	220.00	980.00	15.81	0.58
12/07/94	230.00	990.00	15.81	0.58
12/07/94	240.00	1000.00	15.82	0.59
12/07/94	255.00	1015.00	15.81	0.58
12/07/94	310.00	1030.00	15.81	0.58
12/07/94	325.00	1045.00	15.81	0.58
12/07/94	340.00	1060.00	15.81	0.58
12/07/94	355.00	1075.00	15.82	0.59
12/07/94	410.00	1090.00	15.82	0.59
12/07/94	425.00	1105.00	15.81	0.58
12/07/94	440.00	1120.00	15.82	0.59
12/07/94	455.00	1135.00	15.82	0.59
12/07/94	510.00	1150.00	15.82	0.59
12/07/94	525.00	1165.00	15.82	0.59
12/07/94	540.00	1180.00	15.82	0.59
12/07/94	555.00	1195.00	15.83	0.60
12/07/94	610.00	1210.00	15.83	0.60
12/07/94	625.00	1225.00	15.83	0.60
12/07/94	640.00	1240.00	15.83	0.60
12/07/94	655.00	1255.00	15.83	0.60
12/07/94	710.00	1270.00	15.83	0.60
12/07/94	725.00	1285.00	15.83	0.60
12/07/94	740.00	1300.00	15.83	0.60
12/07/94	755.00	1315.00	15.83	0.60
12/07/94	810.00	1330.00	15.83	0.60
12/07/94	825.00	1345.00	15.83	0.60
12/07/94	840.00	1360.00	15.82	0.59
12/07/94	855.00	1375.00	15.83	0.60
12/07/94	910.00	1390.00	15.83	0.60
12/07/94	925.00	1405.00	15.83	0.60
12/07/94	940.00	1420.00	15.83	0.60

# RECOVERY TEST

<b>WELL NO.: DW11</b> <b>LOCATION: Rear Parking Lot, South of Plant</b> <b>STATIC WATER LEVEL: 15.23 ft. (TOC)</b>	<b>DATE OF TEST: December 7 &amp; 8, 1994</b> <b>DATA COLLECTION METHOD: Hermit</b> <b>TOTAL PUMPING TIME: 1470 min</b>
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Date	Time (HH:MM)	"t" Elapsed Time * (min)	"t" Time Since Pump Shut Off (min)	Depth to Water (feet)	Residual Drawdown (feet)
12/07/94	1030.00	1470.00	0.00	15.83	0.60
12/07/94	1030.00	1470.00	0.00	15.83	0.60
12/07/94	1030.01	1470.01	0.01	15.83	0.60
12/07/94	1030.01	1470.01	0.01	15.83	0.60
12/07/94	1030.01	1470.01	0.01	15.83	0.60
12/07/94	1030.02	1470.02	0.02	15.83	0.60
12/07/94	1030.02	1470.02	0.02	15.83	0.60
12/07/94	1030.02	1470.02	0.02	15.83	0.60
12/07/94	1030.03	1470.03	0.03	15.83	0.60
12/07/94	1030.03	1470.03	0.03	15.83	0.60
12/07/94	1030.03	1470.03	0.03	15.83	0.60
12/07/94	1030.05	1470.05	0.05	15.83	0.60
12/07/94	1030.07	1470.07	0.07	15.83	0.60
12/07/94	1030.08	1470.08	0.08	15.83	0.60
12/07/94	1030.10	1470.10	0.10	15.83	0.60
12/07/94	1030.12	1470.12	0.12	15.83	0.60
12/07/94	1030.13	1470.13	0.13	15.83	0.60
12/07/94	1030.15	1470.15	0.15	15.83	0.60
12/07/94	1030.17	1470.17	0.17	15.83	0.60
12/07/94	1030.18	1470.18	0.18	15.83	0.60
12/07/94	1030.20	1470.20	0.20	15.83	0.60
12/07/94	1030.22	1470.22	0.22	15.83	0.60
12/07/94	1030.23	1470.23	0.23	15.83	0.60
12/07/94	1030.25	1470.25	0.25	15.83	0.60
12/07/94	1030.27	1470.27	0.27	15.83	0.60
12/07/94	1030.28	1470.28	0.28	15.83	0.60
12/07/94	1030.30	1470.30	0.30	15.83	0.60
12/07/94	1030.32	1470.32	0.32	15.83	0.60
12/07/94	1030.33	1470.33	0.33	15.83	0.60
12/07/94	1030.42	1470.42	0.42	15.83	0.60
12/07/94	1030.50	1470.50	0.50	15.83	0.60
12/07/94	1030.58	1470.58	0.58	15.83	0.60
12/07/94	1030.67	1470.67	0.67	15.83	0.60
12/07/94	1030.75	1470.75	0.75	15.83	0.60
12/07/94	1030.83	1470.83	0.83	15.83	0.60
12/07/94	1030.92	1470.92	0.92	15.83	0.60
12/07/94	1031.00	1471.00	1.00	15.83	0.60
12/07/94	1031.08	1471.08	1.08	15.83	0.60
12/07/94	1031.17	1471.17	1.17	15.83	0.60
12/07/94	1031.25	1471.25	1.25	15.83	0.60
12/07/94	1031.33	1471.33	1.33	15.83	0.60
12/07/94	1031.42	1471.42	1.42	15.83	0.60
12/07/94	1031.50	1471.50	1.50	15.83	0.60
12/07/94	1031.58	1471.58	1.58	15.83	0.60
12/07/94	1031.67	1471.67	1.67	15.83	0.60
12/07/94	1031.75	1471.75	1.75	15.83	0.60
12/07/94	1031.83	1471.83	1.83	15.83	0.60

## RECOVERY TEST

**WELL NO.: DW11**

**DATE OF TEST:** December 7 & 8, 1994

**LOCATION:** Rear Parking Lot, South of Plant

**DATA COLLECTION METHOD:** Hermit

**STATIC WATER LEVEL:** 15.23 ft. (TOC)

**TOTAL PUMPING TIME:** 1470 min

Date	Time (HH:MM)	"t"	"t"	Depth to Water (feet)	Residual Drawdown (feet)
		Elapsed Time * (min)	Time Since Pump Shut Off (min)		
12/07/94	1031.92	1471.92	1.92	15.83	0.60
12/07/94	1032.00	1472.00	2.00	15.82	0.59
12/07/94	1032.50	1472.50	2.50	15.82	0.59
12/07/94	1033.00	1473.00	3.00	15.81	0.58
12/07/94	1033.50	1473.50	3.50	15.81	0.58
12/07/94	1034.00	1474.00	4.00	15.80	0.57
12/07/94	1034.50	1474.50	4.50	15.79	0.56
12/07/94	1035.00	1475.00	5.00	15.78	0.55
12/07/94	1035.50	1475.50	5.50	15.77	0.54
12/07/94	1036.00	1476.00	6.00	15.77	0.54
12/07/94	1036.50	1476.50	6.50	15.76	0.53
12/07/94	1037.00	1477.00	7.00	15.75	0.52
12/07/94	1037.50	1477.50	7.50	15.74	0.51
12/07/94	1038.00	1478.00	8.00	15.73	0.50
12/07/94	1038.50	1478.50	8.50	15.73	0.50
12/07/94	1039.00	1479.00	9.00	15.72	0.49
12/07/94	1039.50	1479.50	9.50	15.71	0.48
12/07/94	1040.00	1480.00	10.00	15.70	0.47
12/07/94	1042.00	1482.00	12.00	15.67	0.44
12/07/94	1044.00	1484.00	14.00	15.65	0.42
12/07/94	1046.00	1486.00	16.00	15.63	0.40
12/07/94	1048.00	1488.00	18.00	15.62	0.39
12/07/94	1050.00	1490.00	20.00	15.60	0.37
12/07/94	1052.00	1492.00	22.00	15.59	0.36
12/07/94	1054.00	1494.00	24.00	15.58	0.35
12/07/94	1056.00	1496.00	26.00	15.56	0.33
12/07/94	1058.00	1498.00	28.00	15.56	0.33
12/07/94	1100.00	1500.00	30.00	15.55	0.32
12/07/94	1102.00	1502.00	32.00	15.54	0.31
12/07/94	1104.00	1504.00	34.00	15.53	0.30
12/07/94	1106.00	1506.00	36.00	15.52	0.29
12/07/94	1108.00	1508.00	38.00	15.52	0.29
12/07/94	1110.00	1510.00	40.00	15.51	0.28
12/07/94	1112.00	1512.00	42.00	15.51	0.28
12/07/94	1114.00	1514.00	44.00	15.50	0.27
12/07/94	1116.00	1516.00	46.00	15.49	0.26
12/07/94	1118.00	1518.00	48.00	15.49	0.26
12/07/94	1120.00	1520.00	50.00	15.49	0.26
12/07/94	1122.00	1522.00	52.00	15.48	0.25
12/07/94	1124.00	1524.00	54.00	15.48	0.25
12/07/94	1126.00	1526.00	56.00	15.47	0.24
12/07/94	1128.00	1528.00	58.00	15.47	0.24
12/07/94	1130.00	1530.00	60.00	15.47	0.24
12/07/94	1132.00	1532.00	62.00	15.46	0.23
12/07/94	1134.00	1534.00	64.00	15.46	0.23
12/07/94	1136.00	1536.00	66.00	15.45	0.22
12/07/94	1138.00	1538.00	68.00	15.45	0.22

# RECOVERY TEST

**WELL NO.: DW11**

**DATE OF TEST: December 7 & 8, 1994**

**LOCATION: Rear Parking Lot, South of Plant**

**DATA COLLECTION METHOD: Hermit**

**STATIC WATER LEVEL: 15.23 ft. (TOC)**

**TOTAL PUMPING TIME: 1470 min**

Date	Time (HH:MM)	"t" Elapsed Time * (min)	"t" Time Since Pump Shut Off (min)	Depth to Water (feet)	Residual Drawdown (feet)
12/07/94	1140.00	1540.00	70.00	15.45	0.22
12/07/94	1142.00	1542.00	72.00	15.45	0.22
12/07/94	1144.00	1544.00	74.00	15.44	0.21
12/07/94	1146.00	1546.00	76.00	15.44	0.21
12/07/94	1148.00	1548.00	78.00	15.44	0.21
12/07/94	1150.00	1550.00	80.00	15.44	0.21
12/07/94	1152.00	1552.00	82.00	15.44	0.21
12/07/94	1154.00	1554.00	84.00	15.44	0.21
12/07/94	1156.00	1556.00	86.00	15.43	0.20
12/07/94	1158.00	1558.00	88.00	15.43	0.20
12/07/94	1200.00	1560.00	90.00	15.43	0.20
12/07/94	1202.00	1562.00	92.00	15.43	0.20
12/07/94	1204.00	1564.00	94.00	15.43	0.20
12/07/94	1206.00	1566.00	96.00	15.43	0.20
12/07/94	1208.00	1568.00	98.00	15.42	0.19
12/07/94	1210.00	1570.00	100.00	15.42	0.19
12/07/94	1220.00	1580.00	110.00	15.41	0.18
12/07/94	1230.00	1590.00	120.00	15.41	0.18
12/07/94	1240.00	1600.00	130.00	15.40	0.17
12/07/94	1250.00	1610.00	140.00	15.40	0.17
12/07/94	1300.00	1620.00	150.00	15.39	0.16
12/07/94	1310.00	1630.00	160.00	15.38	0.15
12/07/94	1320.00	1640.00	170.00	15.38	0.15
12/07/94	1330.00	1650.00	180.00	15.38	0.15
12/07/94	1340.00	1660.00	190.00	15.37	0.14
12/07/94	1350.00	1670.00	200.00	15.37	0.14
12/07/94	1400.00	1680.00	210.00	15.37	0.14
12/07/94	1410.00	1690.00	220.00	15.37	0.14
12/07/94	1420.00	1700.00	230.00	15.36	0.13
12/07/94	1430.00	1710.00	240.00	15.36	0.13
12/07/94	1440.00	1720.00	250.00	15.36	0.13
12/07/94	1450.00	1730.00	260.00	15.36	0.13
12/07/94	1500.00	1740.00	270.00	15.35	0.12
12/07/94	1510.00	1750.00	280.00	15.35	0.12
12/07/94	1520.00	1760.00	290.00	15.35	0.12
12/07/94	1530.00	1770.00	300.00	15.35	0.12
12/07/94	1540.00	1780.00	310.00	15.34	0.11
12/07/94	1550.00	1790.00	320.00	15.34	0.11
12/07/94	1600.00	1800.00	330.00	15.34	0.11
12/07/94	1610.00	1810.00	340.00	15.34	0.11
12/07/94	1620.00	1820.00	350.00	15.34	0.11
12/07/94	1630.00	1830.00	360.00	15.34	0.11
12/07/94	1640.00	1840.00	370.00	15.34	0.11
12/07/94	1650.00	1850.00	380.00	15.34	0.11
12/07/94	1700.00	1860.00	390.00	15.33	0.10
12/07/94	1710.00	1870.00	400.00	15.33	0.10
12/07/94	1720.00	1880.00	410.00	15.33	0.10



## RECOVERY TEST

**WELL NO.: DW11**

**DATE OF TEST:** December 7 & 8, 1994

**LOCATION:** Rear Parking Lot, South of Plant

**DATA COLLECTION METHOD:** Hermit

**STATIC WATER LEVEL:** 15.23 ft. (TOC)

**TOTAL PUMPING TIME:** 1470 min

Date	Time (HH:MM)	"t"	"t"	Depth to Water (feet)	Residual Drawdown (feet)
		Elapsed Time * (min)	Time Since Pump Shut Off (min)		
12/07/94	1730.00	1890.00	420.00	15.33	0.10
12/07/94	1740.00	1900.00	430.00	15.33	0.10
12/07/94	1750.00	1910.00	440.00	15.33	0.10
12/07/94	1800.00	1920.00	450.00	15.32	0.09
12/07/94	1810.00	1930.00	460.00	15.33	0.10
12/07/94	1820.00	1940.00	470.00	15.32	0.09
12/07/94	1830.00	1950.00	480.00	15.32	0.09
12/07/94	1840.00	1960.00	490.00	15.32	0.09
12/07/94	1850.00	1970.00	500.00	15.32	0.09
12/07/94	1900.00	1980.00	510.00	15.32	0.09
12/07/94	1910.00	1990.00	520.00	15.32	0.09
12/07/94	1920.00	2000.00	530.00	15.32	0.09
12/07/94	1930.00	2010.00	540.00	15.32	0.09
12/07/94	1940.00	2020.00	550.00	15.32	0.09
12/07/94	1950.00	2030.00	560.00	15.32	0.09
12/07/94	2000.00	2040.00	570.00	15.32	0.09
12/07/94	2010.00	2050.00	580.00	15.31	0.08
12/07/94	2020.00	2060.00	590.00	15.32	0.09
12/07/94	2030.00	2070.00	600.00	15.31	0.08
12/07/94	2040.00	2080.00	610.00	15.31	0.08
12/07/94	2050.00	2090.00	620.00	15.31	0.08
12/07/94	2100.00	2100.00	630.00	15.31	0.08
12/07/94	2110.00	2110.00	640.00	15.30	0.07
12/07/94	2120.00	2120.00	650.00	15.31	0.08
12/07/94	2130.00	2130.00	660.00	15.30	0.07
12/07/94	2140.00	2140.00	670.00	15.30	0.07
12/07/94	2150.00	2150.00	680.00	15.30	0.07
12/07/94	2200.00	2160.00	690.00	15.30	0.07
12/07/94	2210.00	2170.00	700.00	15.30	0.07
12/07/94	2220.00	2180.00	710.00	15.30	0.07
12/07/94	2230.00	2190.00	720.00	15.30	0.07
12/07/94	2240.00	2200.00	730.00	15.30	0.07
12/07/94	2250.00	2210.00	740.00	15.30	0.07
12/07/94	2300.00	2220.00	750.00	15.30	0.07
12/07/94	2310.00	2230.00	760.00	15.30	0.07
12/07/94	2320.00	2240.00	770.00	15.30	0.07
12/07/94	2330.00	2250.00	780.00	15.29	0.06
12/07/94	2340.00	2260.00	790.00	15.29	0.06
12/07/94	2350.00	2270.00	800.00	15.29	0.06
12/08/94	0.00	2280.00	810.00	15.29	0.06
12/08/94	10.00	2290.00	820.00	15.29	0.06
12/08/94	20.00	2300.00	830.00	15.29	0.06
12/08/94	30.00	2310.00	840.00	15.29	0.06
12/08/94	40.00	2320.00	850.00	15.29	0.06
12/08/94	50.00	2330.00	860.00	15.29	0.06
12/08/94	100.00	2340.00	870.00	15.29	0.06
12/08/94	110.00	2350.00	880.00	15.29	0.06

# RECOVERY TEST

**WELL NO.:** DW11

**DATE OF TEST:** December 7 & 8, 1994

**LOCATION:** Rear Parking Lot, South of Plant

**DATA COLLECTION METHOD:** Hermit

**STATIC WATER LEVEL:** 15.23 ft. (TOC)

**TOTAL PUMPING TIME:** 1470 min

Date	Time (HH:MM)	"t" Elapsed Time * (min)	"t" Time Since Pump Shut Off (min)	Depth to Water (feet)	Residual Drawdown (feet)
12/08/94	120.00	2360.00	890.00	15.29	0.06
12/08/94	130.00	2370.00	900.00	15.29	0.06
12/08/94	140.00	2380.00	910.00	15.29	0.06
12/08/94	150.00	2390.00	920.00	15.28	0.05
12/08/94	200.00	2400.00	930.00	15.28	0.05
12/08/94	210.00	2410.00	940.00	15.28	0.05
12/08/94	220.00	2420.00	950.00	15.28	0.05
12/08/94	230.00	2430.00	960.00	15.28	0.05
12/08/94	240.00	2440.00	970.00	15.28	0.05
12/08/94	250.00	2450.00	980.00	15.28	0.05
12/08/94	300.00	2460.00	990.00	15.28	0.05
12/08/94	310.00	2470.00	1000.00	15.28	0.05
12/08/94	325.00	2485.00	1015.00	15.27	0.04
12/08/94	340.00	2500.00	1030.00	15.27	0.04
12/08/94	355.00	2515.00	1045.00	15.27	0.04
12/08/94	410.00	2530.00	1060.00	15.27	0.04
12/08/94	425.00	2545.00	1075.00	15.27	0.04
12/08/94	440.00	2560.00	1090.00	15.26	0.03
12/08/94	455.00	2575.00	1105.00	15.26	0.03
12/08/94	510.00	2590.00	1120.00	15.26	0.03
12/08/94	525.00	2605.00	1135.00	15.26	0.03
12/08/94	540.00	2620.00	1150.00	15.26	0.03
12/08/94	555.00	2635.00	1165.00	15.26	0.03
12/08/94	610.00	2650.00	1180.00	15.25	0.02
12/08/94	625.00	2665.00	1195.00	15.25	0.02
12/08/94	640.00	2680.00	1210.00	15.25	0.02
12/08/94	655.00	2695.00	1225.00	15.25	0.02
12/08/94	710.00	2710.00	1240.00	15.25	0.02
12/08/94	725.00	2725.00	1255.00	15.25	0.02
12/08/94	740.00	2740.00	1270.00	15.24	0.01
12/08/94	755.00	2755.00	1285.00	15.24	0.01
12/08/94	810.00	2770.00	1300.00	15.24	0.01
12/08/94	825.00	2785.00	1315.00	15.24	0.01
12/08/94	840.00	2800.00	1330.00	15.24	0.01
12/08/94	855.00	2815.00	1345.00	15.24	0.01
12/08/94	910.00	2830.00	1360.00	15.24	0.01
12/08/94	925.00	2845.00	1375.00	15.24	0.01
12/08/94	940.00	2860.00	1390.00	15.23	0.00
12/08/94	955.00	2875.00	1405.00	15.23	0.00
12/08/94	1010.00	2890.00	1420.00	15.23	0.00
12/08/94	1025.00	2905.00	1435.00	15.23	0.00
12/08/94	1040.00	2920.00	1450.00	15.23	0.00
12/08/94	1055.00	2935.00	1465.00	15.23	0.00
12/08/94	1110.00	2950.00	1480.00	15.23	0.00

\* Elapsed time = Time since pumping test began

# PUMPING TEST

**WELL NO.: SW12**      **DATE OF TEST: December 6 & 7, 1994**  
**LOCATION: Rear Parking Lot, South of Plant**      **DATA COLLECTION METHOD: Telog**  
**STATIC WATER LEVEL: 17.50 ft. (TOC)**      **DISTANCE TO PUMPING WELL: 220 ft.**

Date	Time (HH:MM)	Elapsed Time (min)	Depth to Water (feet)	Drawdown (feet)
12/06/94	1000	0	17.50	0.00
12/06/94	1018	18	17.63	0.13
12/06/94	1048	48	17.71	0.21
12/06/94	1118	78	17.75	0.25
12/06/94	1148	108	17.77	0.27
12/06/94	1218	138	17.77	0.27
12/06/94	1248	168	17.78	0.28
12/06/94	1318	198	17.79	0.29
12/06/94	1348	228	17.79	0.29
12/06/94	1418	258	17.79	0.29
12/06/94	1448	288	17.79	0.29
12/06/94	1518	318	17.79	0.29
12/06/94	1548	348	17.79	0.29
12/06/94	1618	378	17.81	0.31
12/06/94	1648	408	17.79	0.29
12/06/94	1718	438	17.81	0.31
12/06/94	1748	468	17.81	0.31
12/06/94	1818	498	17.81	0.31
12/06/94	1848	528	17.81	0.31
12/06/94	1918	558	17.81	0.31
12/06/94	1948	588	17.81	0.31
12/06/94	2018	618	17.77	0.27
12/06/94	2048	648	17.78	0.28
12/06/94	2118	678	17.81	0.31
12/06/94	2148	708	17.84	0.34
12/06/94	2218	738	17.83	0.33
12/06/94	2248	768	17.81	0.31
12/06/94	2318	798	17.80	0.30
12/06/94	2348	828	17.80	0.30
12/07/94	18	858	17.81	0.31
12/07/94	48	888	17.80	0.30
12/07/94	118	918	17.82	0.32
12/07/94	148	948	17.82	0.32
12/07/94	218	978	17.82	0.32
12/07/94	248	1008	17.81	0.31
12/07/94	318	1038	17.77	0.27
12/07/94	348	1068	17.78	0.28
12/07/94	418	1098	17.79	0.29
12/07/94	448	1128	17.79	0.29
12/07/94	518	1158	17.79	0.29
12/07/94	548	1188	17.79	0.29
12/07/94	618	1218	17.72	0.22
12/07/94	648	1248	17.74	0.24
12/07/94	718	1278	17.70	0.20
12/07/94	748	1308	17.70	0.20
12/07/94	818	1338	17.76	0.26
12/07/94	848	1368	17.77	0.27

# PUMPING TEST

**WELL NO.: SW12**

**DATE OF TEST:** December 6 & 7, 1994

**LOCATION:** Rear Parking Lot, South of Plant

**DATA COLLECTION METHOD:** Telog

**STATIC WATER LEVEL:** 17.50 ft. (TOC)

**DISTANCE TO PUMPING WELL:** 220 ft.

<b>Date</b>	<b>Time (HH:MM)</b>	<b>Elapsed Time (min)</b>	<b>Depth to Water (feet)</b>	<b>Drawdown (feet)</b>
12/07/94	918	1398	17.77	0.27
12/07/94	948	1428	17.77	0.27
12/07/94	1018	1458	17.75	0.25
12/07/94	1030	1470	17.75	0.25

# RECOVERY TEST

**WELL NO.: SW12**

**DATE OF TEST: December 7 & 8, 1994**

**LOCATION: Rear Parking Lot, South of Plant**

**DATA COLLECTION METHOD: Telog**

**STATIC WATER LEVEL: 17.50 ft. (TOC)**

**TOTAL PUMPING TIME: 1470 min**

Date	Time (HH:MM)	"t" Elapsed Time * (min)	"t" Time Since Pump Shut Off (min)	Depth to Water (feet)	Residual Drawdown (feet)
12/07/94	1030	1470	0	17.75	0.25
12/07/94	1048	1488	18	17.62	0.12
12/07/94	1118	1518	48	17.51	0.01
12/07/94	1148	1548	78	17.49	-0.01
12/07/94	1218	1578	108	17.47	-0.03
12/07/94	1248	1608	138	17.45	-0.05
12/07/94	1318	1638	168	17.42	-0.08
12/07/94	1348	1668	198	17.42	-0.08
12/07/94	1418	1698	228	17.42	-0.08
12/07/94	1448	1728	258	17.41	-0.09
12/07/94	1518	1758	288	17.40	-0.10
12/07/94	1548	1788	318	17.40	-0.10
12/07/94	1618	1818	348	17.40	-0.10
12/07/94	1648	1848	378	17.37	-0.13
12/07/94	1718	1878	408	17.35	-0.15
12/07/94	1748	1908	438	17.33	-0.17
12/07/94	1818	1938	468	17.33	-0.17
12/07/94	1848	1968	498	17.33	-0.17
12/07/94	1918	1998	528	17.33	-0.17
12/07/94	1948	2028	558	17.33	-0.17
12/07/94	2018	2058	588	17.33	-0.17
12/07/94	2048	2088	618	17.30	-0.20
12/07/94	2118	2118	648	17.30	-0.20
12/07/94	2148	2148	678	17.27	-0.23
12/07/94	2218	2178	708	17.24	-0.26
12/07/94	2248	2208	738	17.24	-0.26
12/07/94	2318	2238	768	17.24	-0.26
12/07/94	2348	2268	798	17.24	-0.26
12/08/94	18	2298	828	17.24	-0.26
12/08/94	48	2328	858	17.24	-0.26
12/08/94	118	2358	888	17.23	-0.27
12/08/94	148	2388	918	17.22	-0.28
12/08/94	218	2418	948	17.21	-0.29
12/08/94	248	2448	978	17.24	-0.26
12/08/94	318	2478	1008	17.24	-0.26
12/08/94	348	2508	1038	17.24	-0.26
12/08/94	418	2538	1068	17.23	-0.27
12/08/94	448	2568	1098	17.21	-0.29
12/08/94	518	2598	1128	17.20	-0.30
12/08/94	548	2628	1158	17.19	-0.31
12/08/94	618	2658	1188	17.15	-0.35
12/08/94	648	2688	1218	17.14	-0.36
12/08/94	718	2718	1248	17.14	-0.36
12/08/94	748	2748	1278	17.14	-0.36
12/08/94	818	2778	1308	17.14	-0.36
12/08/94	848	2808	1338	17.14	-0.36
12/08/94	918	2838	1368	17.14	-0.36

# RECOVERY TEST

**WELL NO.:** SW12

**DATE OF TEST:** December 7 & 8, 1994

**LOCATION:** Rear Parking Lot, South of Plant

**DATA COLLECTION METHOD:** Telog

**STATIC WATER LEVEL:** 17.50 ft. (TOC)

**TOTAL PUMPING TIME:** 1470 min

Date	Time (HH:MM)	"t" Elapsed Time * (min)	"t" Time Since Pump Shut Off (min)	Depth to Water (feet)	Residual Drawdown (feet)
12/08/94	948	2868	1398	17.14	-0.36
12/08/94	1018	2898	1428	17.14	-0.36
12/08/94	1048	2928	1458	17.14	-0.36
12/08/94	1118	2958	1488	17.13	-0.37
12/08/94	1148	2988	1518	17.13	-0.37
12/08/94	1218	3018	1548	17.12	-0.38
12/08/94	1248	3048	1578	17.12	-0.38
12/08/94	1318	3078	1608	17.12	-0.38

Elapsed time = Time since pumping test began

## PUMPING TEST

**WELL NO.: DW12**

**DATE OF TEST: December 6 & 7, 1994**

**LOCATION: Rear Parking Lot, South of Plant**

**DATA COLLECTION METHOD: Telog**

**STATIC WATER LEVEL: 16.78 ft. (TOC)**

**DISTANCE TO PUMPING WELL: 220 ft.**

Date	Time (HH:MM)	Elapsed Time (min)	Depth to Water (feet)	Drawdown (feet)
12/06/94	1000.00	0.00	16.78	0.00
12/06/94	1018.17	18.17	17.74	0.96
12/06/94	1048.17	48.17	18.81	2.03
12/06/94	1118.17	78.17	18.93	2.15
12/06/94	1148.17	108.17	18.98	2.20
12/06/94	1218.17	138.17	19.01	2.23
12/06/94	1248.17	168.17	19.00	2.22
12/06/94	1318.17	198.17	19.01	2.23
12/06/94	1348.17	228.17	19.02	2.24
12/06/94	1418.17	258.17	19.02	2.24
12/06/94	1448.17	288.17	19.03	2.25
12/06/94	1518.17	318.17	19.03	2.25
12/06/94	1548.17	348.17	19.03	2.25
12/06/94	1618.17	378.17	19.04	2.26
12/06/94	1648.17	408.17	19.04	2.26
12/06/94	1718.17	438.17	19.06	2.28
12/06/94	1748.17	468.17	19.07	2.29
12/06/94	1818.17	498.17	19.07	2.29
12/06/94	1848.17	528.17	19.07	2.29
12/06/94	1918.17	558.17	19.07	2.29
12/06/94	1948.17	588.17	19.07	2.29
12/06/94	2018.17	618.17	19.08	2.30
12/06/94	2048.17	648.17	19.07	2.29
12/06/94	2118.17	678.17	19.05	2.27
12/06/94	2148.17	708.17	19.04	2.26
12/06/94	2218.17	738.17	19.04	2.26
12/06/94	2248.17	768.17	19.04	2.26
12/06/94	2318.17	798.17	19.04	2.26
12/06/94	2348.17	828.17	19.05	2.27
12/07/94	18.17	858.17	19.06	2.28
12/07/94	48.17	888.17	19.05	2.27
12/07/94	118.17	918.17	19.06	2.28
12/07/94	148.17	948.17	19.06	2.28
12/07/94	218.17	978.17	19.06	2.28
12/07/94	248.17	1008.17	19.05	2.27
12/07/94	318.17	1038.17	19.04	2.26
12/07/94	348.17	1068.17	19.04	2.26
12/07/94	418.17	1098.17	19.04	2.26
12/07/94	448.17	1128.17	19.04	2.26
12/07/94	518.17	1158.17	19.04	2.26
12/07/94	548.17	1188.17	19.05	2.27
12/07/94	618.17	1218.17	19.06	2.28

## PUMPING TEST

**WELL NO.:** DW12

**DATE OF TEST:** December 6 & 7, 1994

**LOCATION:** Rear Parking Lot, South of Plant

**DATA COLLECTION METHOD:** Telog

**STATIC WATER LEVEL:** 16.78 ft. (TOC)

**DISTANCE TO PUMPING WELL:** 220 ft.

Date	Time (HH:MM)	Elapsed Time (min)	Depth to Water (feet)	Drawdown (feet)
12/07/94	648.17	1248.17	19.07	2.29
12/07/94	718.17	1278.17	19.07	2.29
12/07/94	748.17	1308.17	19.08	2.30
12/07/94	818.17	1338.17	19.07	2.29
12/07/94	848.17	1368.17	19.06	2.28
12/07/94	918.17	1398.17	19.06	2.28
12/07/94	948.17	1428.17	19.06	2.28
12/07/94	1018.17	1458.17	19.06	2.28
12/07/94	1030.00	1470.00	19.06	2.28



# RECOVERY TEST

**WELL NO.: DW12**

**DATE OF TEST:** December 7 & 8, 1994

**LOCATION:** Rear Parking Lot, South of Plant

**DATA COLLECTION METHOD:** Telog

**STATIC WATER LEVEL:** 16.78 ft. (TOC)

**TOTAL PUMPING TIME:** 1470 min

Date	Time (HH:MM)	"t" Elapsed Time * (min)	"t" Time Since Pump Shut Off (min)	Depth to Water (feet)	Residual Drawdown (feet)
12/07/94	1030.00	1470.00	0.00	19.06	2.28
12/07/94	1048.17	1488.17	18.17	18.06	1.28
12/07/94	1118.17	1518.17	48.17	17.03	0.25
12/07/94	1148.17	1548.17	78.17	16.90	0.12
12/07/94	1218.17	1578.17	108.17	16.86	0.08
12/07/94	1248.17	1608.17	138.17	16.83	0.05
12/07/94	1318.17	1638.17	168.17	16.81	0.03
12/07/94	1348.17	1668.17	198.17	16.79	0.01
12/07/94	1418.17	1698.17	228.17	16.78	-0.00
12/07/94	1448.17	1728.17	258.17	16.77	-0.01
12/07/94	1518.17	1758.17	288.17	16.76	-0.02
12/07/94	1548.17	1788.17	318.17	16.75	-0.03
12/07/94	1618.17	1818.17	348.17	16.75	-0.03
12/07/94	1648.17	1848.17	378.17	16.73	-0.05
12/07/94	1718.17	1878.17	408.17	16.73	-0.05
12/07/94	1748.17	1908.17	438.17	16.73	-0.05
12/07/94	1818.17	1938.17	468.17	16.72	-0.06
12/07/94	1848.17	1968.17	498.17	16.73	-0.05
12/07/94	1918.17	1998.17	528.17	16.72	-0.06
12/07/94	1948.17	2028.17	558.17	16.76	-0.02
12/07/94	2018.17	2058.17	588.17	16.77	-0.01
12/07/94	2048.17	2088.17	618.17	16.77	-0.01
12/07/94	2118.17	2118.17	648.17	16.76	-0.02
12/07/94	2148.17	2148.17	678.17	16.74	-0.04
12/07/94	2218.17	2178.17	708.17	16.73	-0.05
12/07/94	2248.17	2208.17	738.17	16.72	-0.06
12/07/94	2318.17	2238.17	768.17	16.70	-0.08
12/07/94	2348.17	2268.17	798.17	16.71	-0.07
12/08/94	18.17	2298.17	828.17	16.70	-0.08
12/08/94	48.17	2328.17	858.17	16.69	-0.09
12/08/94	118.17	2358.17	888.17	16.69	-0.09
12/08/94	148.17	2388.17	918.17	16.69	-0.09
12/08/94	218.17	2418.17	948.17	16.68	-0.10
12/08/94	248.17	2448.17	978.17	16.67	-0.11
12/08/94	318.17	2478.17	1008.17	16.68	-0.10
12/08/94	348.17	2508.17	1038.17	16.68	-0.10
12/08/94	418.17	2538.17	1068.17	16.67	-0.11
12/08/94	448.17	2568.17	1098.17	16.67	-0.11
12/08/94	518.17	2598.17	1128.17	16.64	-0.14
12/08/94	548.17	2628.17	1158.17	16.63	-0.15
12/08/94	618.17	2658.17	1188.17	16.62	-0.16
12/08/94	648.17	2688.17	1218.17	16.64	-0.14
12/08/94	718.17	2718.17	1248.17	16.65	-0.13
12/08/94	748.17	2748.17	1278.17	16.67	-0.11
12/08/94	818.17	2778.17	1308.17	16.66	-0.12
12/08/94	848.17	2808.17	1338.17	16.66	-0.12
12/08/94	918.17	2838.17	1368.17	16.66	-0.12

# RECOVERY TEST

**WELL NO.:** DW12

**DATE OF TEST:** December 7 & 8, 1994

**LOCATION:** Rear Parking Lot, South of Plant

**DATA COLLECTION METHOD:** Telog

**STATIC WATER LEVEL:** 16.78 ft. (TOC)

**TOTAL PUMPING TIME:** 1470 min

Date	Time (HH:MM)	"t" Elapsed Time * (min)	"t" Time Since Pump Shut Off (min)	Depth to Water (feet)	Residual Drawdown (feet)
12/08/94	948.17	2868.17	1398.17	16.65	-0.13
12/08/94	1018.17	2898.17	1428.17	16.64	-0.14
12/08/94	1048.17	2928.17	1458.17	16.64	-0.14
12/08/94	1118.17	2958.17	1488.17	16.64	-0.14
12/08/94	1148.17	2988.17	1518.17	16.64	-0.14
12/08/94	1218.17	3018.17	1548.17	16.64	-0.14
12/08/94	1248.17	3048.17	1578.17	16.63	-0.15
12/08/94	1318.17	3078.17	1608.17	16.63	-0.15
12/08/94	1348.17	3108.17	1638.17	16.62	-0.16

Elapsed time = Time since pumping test began

## PUMPING TEST

**WELL NO.: SW13**      **DATE OF TEST:** December 6 & 7, 1994  
**LOCATION:** Rear Parking Lot, South of Plant      **DATA COLLECTION METHOD:** Telog  
**STATIC WATER LEVEL:** 18.06 ft. (TOC)      **DISTANCE TO PUMPING WELL:** 300 ft.

Date	Time (HH:MM)	Elapsed Time (min)	Depth to Water (feet)	Drawdown (feet)
12/06/94	1000.00	0.00	18.06	0.00
12/06/94	1020.23	20.23	18.07	0.01
12/06/94	1050.23	50.23	18.09	0.03
12/06/94	1120.23	80.23	18.10	0.04
12/06/94	1150.23	110.23	18.11	0.05
12/06/94	1220.23	140.23	18.12	0.06
12/06/94	1250.23	170.23	18.13	0.07
12/06/94	1320.23	200.23	18.14	0.08
12/06/94	1350.23	230.23	18.14	0.08
12/06/94	1420.23	260.23	18.14	0.08
12/06/94	1450.23	290.23	18.14	0.08
12/06/94	1520.23	320.23	18.15	0.09
12/06/94	1550.23	350.23	18.16	0.10
12/06/94	1620.23	380.23	18.16	0.10
12/06/94	1650.23	410.23	18.16	0.10
12/06/94	1720.23	440.23	18.16	0.10
12/06/94	1750.23	470.23	18.16	0.10
12/06/94	1820.23	500.23	18.16	0.10
12/06/94	1850.23	530.23	18.16	0.10
12/06/94	1920.23	560.23	18.14	0.08
12/06/94	1950.23	590.23	18.12	0.06
12/06/94	2020.23	620.23	18.11	0.05
12/06/94	2050.23	650.23	18.10	0.04
12/06/94	2120.23	680.23	18.09	0.03
12/06/94	2150.23	710.23	18.09	0.03
12/06/94	2220.23	740.23	18.09	0.03
12/06/94	2250.23	770.23	18.09	0.03
12/06/94	2320.23	800.23	18.09	0.03
12/06/94	2350.23	830.23	18.10	0.04
12/07/94	20.23	860.23	18.10	0.04
12/07/94	50.23	890.23	18.11	0.05
12/07/94	120.23	920.23	18.11	0.05
12/07/94	150.23	950.23	18.11	0.05
12/07/94	220.23	980.23	18.11	0.05
12/07/94	250.23	1010.23	18.12	0.06
12/07/94	320.23	1040.23	18.13	0.07
12/07/94	350.23	1070.23	18.14	0.08
12/07/94	420.23	1100.23	18.15	0.09
12/07/94	450.23	1130.23	18.15	0.09
12/07/94	520.23	1160.23	18.15	0.09
12/07/94	550.23	1190.23	18.15	0.09
12/07/94	620.23	1220.23	18.16	0.10

## PUMPING TEST

**WELL NO.:** SW13

**DATE OF TEST:** December 6 & 7, 1994

**LOCATION:** Rear Parking Lot, South of Plant

**DATA COLLECTION METHOD:** Telog

**STATIC WATER LEVEL:** 18.06 ft. (TOC)

**DISTANCE TO PUMPING WELL:** 300 ft.

Date	Time (HH:MM)	Elapsed Time (min)	Depth to Water (feet)	Drawdown (feet)
12/07/94	650.23	1250.23	18.17	0.11
12/07/94	720.23	1280.23	18.17	0.11
12/07/94	750.23	1310.23	18.18	0.12
12/07/94	820.23	1340.23	18.20	0.14
12/07/94	850.23	1370.23	18.20	0.14
12/07/94	920.23	1400.23	18.18	0.12
12/07/94	950.23	1430.23	18.20	0.14
12/07/94	1020.23	1460.23	18.19	0.13
12/07/94	1030.00	1470.00	18.19	0.13

# RECOVERY TEST

**WELL NO.: SW13**

**DATE OF TEST:** December 7 & 8, 1994

**LOCATION:** Rear Parking Lot, South of Plant

**DATA COLLECTION METHOD:** Telog

**STATIC WATER LEVEL:** 18.06 ft. (TOC)

**TOTAL PUMPING TIME:** 1470 min

Date	Time (HH:MM)	Elapsed Time * (min)	Time Since Pump Shut Off (min)	Depth to Water (feet)	Residual Drawdown (feet)
12/07/94	1030.00	1470.00	0.00	18.19	0.13
12/07/94	1050.23	1490.23	20.23	18.19	0.13
12/07/94	1120.23	1520.23	50.23	18.20	0.14
12/07/94	1150.23	1550.23	80.23	18.20	0.14
12/07/94	1220.23	1580.23	110.23	18.18	0.12
12/07/94	1250.23	1610.23	140.23	18.17	0.11
12/07/94	1320.23	1640.23	170.23	18.15	0.09
12/07/94	1350.23	1670.23	200.23	18.14	0.08
12/07/94	1420.23	1700.23	230.23	18.12	0.06
12/07/94	1450.23	1730.23	260.23	18.09	0.03
12/07/94	1520.23	1760.23	290.23	18.07	0.01
12/07/94	1550.23	1790.23	320.23	18.03	-0.03
12/07/94	1620.23	1820.23	350.23	17.99	-0.07
12/07/94	1650.23	1850.23	380.23	17.97	-0.09
12/07/94	1720.23	1880.23	410.23	17.93	-0.13
12/07/94	1750.23	1910.23	440.23	17.91	-0.15
12/07/94	1820.23	1940.23	470.23	17.87	-0.19
12/07/94	1850.23	1970.23	500.23	17.84	-0.22
12/07/94	1920.23	2000.23	530.23	17.79	-0.27
12/07/94	1950.23	2030.23	560.23	17.76	-0.30
12/07/94	2020.23	2060.23	590.23	17.75	-0.31
12/07/94	2050.23	2090.23	620.23	17.73	-0.33
12/07/94	2120.23	2120.23	650.23	17.72	-0.34
12/07/94	2150.23	2150.23	680.23	17.71	-0.35
12/07/94	2220.23	2180.23	710.23	17.69	-0.37
12/07/94	2250.23	2210.23	740.23	17.68	-0.38
12/07/94	2320.23	2240.23	770.23	17.66	-0.40
12/07/94	2350.23	2270.23	800.23	17.66	-0.40
12/08/94	20.23	2300.23	830.23	17.64	-0.42
12/08/94	50.23	2330.23	860.23	17.62	-0.44
12/08/94	120.23	2360.23	890.23	17.59	-0.47
12/08/94	150.23	2390.23	920.23	17.57	-0.49
12/08/94	220.23	2420.23	950.23	17.56	-0.50
12/08/94	250.23	2450.23	980.23	17.55	-0.51
12/08/94	320.23	2480.23	1010.23	17.55	-0.51
12/08/94	350.23	2510.23	1040.23	17.55	-0.51
12/08/94	420.23	2540.23	1070.23	17.54	-0.52
12/08/94	450.23	2570.23	1100.23	17.53	-0.53
12/08/94	520.23	2600.23	1130.23	17.51	-0.55
12/08/94	550.23	2630.23	1160.23	17.51	-0.55
12/08/94	620.23	2660.23	1190.23	17.51	-0.55
12/08/94	650.23	2690.23	1220.23	17.50	-0.56
12/08/94	720.23	2720.23	1250.23	17.49	-0.57
12/08/94	750.23	2750.23	1280.23	17.48	-0.58
12/08/94	820.23	2780.23	1310.23	17.48	-0.58
12/08/94	850.23	2810.23	1340.23	17.47	-0.59
12/08/94	920.23	2840.23	1370.23	17.47	-0.59

# RECOVERY TEST

**WELL NO.: SW13**

**DATE OF TEST:** December 7 & 8, 1994

**LOCATION:** Rear Parking Lot, South of Plant

**DATA COLLECTION METHOD:** Telog

**STATIC WATER LEVEL:** 18.06 ft. (TOC)

**TOTAL PUMPING TIME:** 1470 min

Date	Time (HH:MM)	"t" Elapsed Time * (min)	"t" Time Since Pump Shut Off (min)	Depth to Water (feet)	Residual Drawdown (feet)
12/08/94	950.23	2870.23	1400.23	17.47	-0.59
12/08/94	1020.23	2900.23	1430.23	17.48	-0.58
12/08/94	1050.23	2930.23	1460.23	17.49	-0.57
12/08/94	1120.23	2960.23	1490.23	17.50	-0.56
12/08/94	1150.23	2990.23	1520.23	17.50	-0.56
12/08/94	1220.23	3020.23	1550.23	17.51	-0.55
12/08/94	1250.23	3050.23	1580.23	17.51	-0.55
12/08/94	1320.23	3080.23	1610.23	17.51	-0.55
12/08/94	1350.23	3110.23	1640.23	17.51	-0.55
12/08/94	1420.23	3140.23	1670.23	17.51	-0.55

Elapsed time = Time since pumping test began

## PUMPING TEST

**WELL NO.:** IW13

**DATE OF TEST:** December 6 & 7, 1994

**LOCATION:** Rear Parking Lot, South of Plant

**DATA COLLECTION METHOD:** Telog

**STATIC WATER LEVEL:** 16.12 ft. (TOC)

**DISTANCE TO PUMPING WELL:** 300 ft.

Date	Time (HH:MM)	Elapsed Time (min)	Depth to Water (feet)	Drawdown (feet)
12/06/94	1000.00	0.00	16.12	0.00
12/06/94	1017.95	17.95	16.12	0.00
12/06/94	1047.95	47.95	16.12	0.00
12/06/94	1117.95	77.95	16.12	0.00
12/06/94	1147.95	107.95	16.12	0.00
12/06/94	1217.95	137.95	16.12	0.00
12/06/94	1247.95	167.95	16.12	0.00
12/06/94	1317.95	197.95	16.12	0.00
12/06/94	1347.95	227.95	16.12	0.00
12/06/94	1417.95	257.95	16.12	0.00
12/06/94	1447.95	287.95	16.13	0.01
12/06/94	1517.95	317.95	16.13	0.01
12/06/94	1547.95	347.95	16.13	0.01
12/06/94	1617.95	377.95	16.13	0.01
12/06/94	1647.95	407.95	16.13	0.01
12/06/94	1717.95	437.95	16.13	0.01
12/06/94	1747.95	467.95	16.13	0.01
12/06/94	1817.95	497.95	16.13	0.01
12/06/94	1847.95	527.95	16.13	0.01
12/06/94	1917.95	557.95	16.12	0.00
12/06/94	1947.95	587.95	16.12	0.00
12/06/94	2017.95	617.95	16.12	0.00
12/06/94	2047.95	647.95	16.12	0.00
12/06/94	2117.95	677.95	16.12	0.00
12/06/94	2147.95	707.95	16.12	0.00
12/06/94	2217.95	737.95	16.12	0.00
12/06/94	2247.95	767.95	16.11	-0.01
12/06/94	2317.95	797.95	16.11	-0.01
12/06/94	2347.95	827.95	16.11	-0.01
12/07/94	17.95	857.95	16.10	-0.02
12/07/94	47.95	887.95	16.10	-0.02
12/07/94	117.95	917.95	16.10	-0.02
12/07/94	147.95	947.95	16.10	-0.02
12/07/94	217.95	977.95	16.10	-0.02
12/07/94	247.95	1007.95	16.10	-0.02
12/07/94	317.95	1037.95	16.10	-0.02
12/07/94	347.95	1067.95	16.10	-0.02
12/07/94	417.95	1097.95	16.09	-0.03
12/07/94	447.95	1127.95	16.09	-0.03
12/07/94	517.95	1157.95	16.09	-0.03
12/07/94	547.95	1187.95	16.08	-0.04
12/07/94	617.95	1217.95	16.08	-0.04

## PUMPING TEST

**WELL NO.:** IW13

**DATE OF TEST:** December 6 & 7, 1994

**LOCATION:** Rear Parking Lot, South of Plant

**DATA COLLECTION METHOD:** Telog

**STATIC WATER LEVEL:** 16.12 ft. (TOC)

**DISTANCE TO PUMPING WELL:** 300 ft.

Date	Time (HH:MM)	Elapsed Time (min)	Depth to Water (feet)	Drawdown (feet)
12/07/94	647.95	1247.95	16.08	-0.04
12/07/94	717.95	1277.95	16.07	-0.05
12/07/94	747.95	1307.95	16.07	-0.05
12/07/94	817.95	1337.95	16.07	-0.05
12/07/94	847.95	1367.95	16.06	-0.06
12/07/94	917.95	1397.95	16.06	-0.06
12/07/94	947.95	1427.95	16.06	-0.06
12/07/94	1017.95	1457.95	16.05	-0.07
12/07/94	1030.00	1470.00	16.05	-0.07



# RECOVERY TEST

**WELL NO.:** IW13

**DATE OF TEST:** December 7 & 8, 1994

**LOCATION:** Rear Parking Lot, South of Plant

**DATA COLLECTION METHOD:** Telog

**STATIC WATER LEVEL:** 16.12 ft. (TOC)

**TOTAL PUMPING TIME:** 1470 min

Date	Time (HH:MM)	Elapsed Time * (min)	Time Since Pump Shut Off (min)	Depth to Water (feet)	Residual Drawdown (feet)
12/07/94	1030.00	1470.00	0.00	16.05	-0.07
12/07/94	1047.95	1487.95	17.95	16.05	-0.07
12/07/94	1117.95	1517.95	47.95	16.05	-0.07
12/07/94	1147.95	1547.95	77.95	16.04	-0.08
12/07/94	1217.95	1577.95	107.95	16.03	-0.09
12/07/94	1247.95	1607.95	137.95	16.01	-0.11
12/07/94	1317.95	1637.95	167.95	16.01	-0.11
12/07/94	1347.95	1667.95	197.95	16.00	-0.12
12/07/94	1417.95	1697.95	227.95	15.99	-0.13
12/07/94	1447.95	1727.95	257.95	15.98	-0.14
12/07/94	1517.95	1757.95	287.95	15.97	-0.15
12/07/94	1547.95	1787.95	317.95	15.96	-0.16
12/07/94	1617.95	1817.95	347.95	15.96	-0.16
12/07/94	1647.95	1847.95	377.95	15.95	-0.17
12/07/94	1717.95	1877.95	407.95	15.94	-0.18
12/07/94	1747.95	1907.95	437.95	15.93	-0.19
12/07/94	1817.95	1937.95	467.95	15.92	-0.20
12/07/94	1847.95	1967.95	497.95	15.91	-0.21
12/07/94	1917.95	1997.95	527.95	15.91	-0.21
12/07/94	1947.95	2027.95	557.95	15.90	-0.22
12/07/94	2017.95	2057.95	587.95	15.90	-0.22
12/07/94	2047.95	2087.95	617.95	15.89	-0.23
12/07/94	2117.95	2117.95	647.95	15.88	-0.24
12/07/94	2147.95	2147.95	677.95	15.87	-0.25
12/07/94	2217.95	2177.95	707.95	15.87	-0.25
12/07/94	2247.95	2207.95	737.95	15.87	-0.25
12/07/94	2317.95	2237.95	767.95	15.86	-0.26
12/07/94	2347.95	2267.95	797.95	15.86	-0.26
12/08/94	17.95	2297.95	827.95	15.84	-0.28
12/08/94	47.95	2327.95	857.95	15.84	-0.28
12/08/94	117.95	2357.95	887.95	15.83	-0.29
12/08/94	147.95	2387.95	917.95	15.83	-0.29
12/08/94	217.95	2417.95	947.95	15.82	-0.30
12/08/94	247.95	2447.95	977.95	15.82	-0.30
12/08/94	317.95	2477.95	1007.95	15.81	-0.31
12/08/94	347.95	2507.95	1037.95	15.81	-0.31
12/08/94	417.95	2537.95	1067.95	15.80	-0.32
12/08/94	447.95	2567.95	1097.95	15.79	-0.33
12/08/94	517.95	2597.95	1127.95	15.78	-0.34
12/08/94	547.95	2627.95	1157.95	15.77	-0.35
12/08/94	617.95	2657.95	1187.95	15.77	-0.35
12/08/94	647.95	2687.95	1217.95	15.76	-0.36
12/08/94	717.95	2717.95	1247.95	15.75	-0.37
12/08/94	747.95	2747.95	1277.95	15.75	-0.37
12/08/94	817.95	2777.95	1307.95	15.75	-0.37
12/08/94	847.95	2807.95	1337.95	15.74	-0.38
12/08/94	917.95	2837.95	1367.95	15.73	-0.39

# RECOVERY TEST

**WELL NO.: IW13**

**DATE OF TEST:** December 7 & 8, 1994

**LOCATION:** Rear Parking Lot, South of Plant

**DATA COLLECTION METHOD:** Telog

**STATIC WATER LEVEL:** 16.12 ft. (TOC)

**TOTAL PUMPING TIME:** 1470 min

Date	Time (HH:MM)	"t" Elapsed Time * (min)	"t" Time Since Pump Shut Off (min)	Depth to Water (feet)	Residual Drawdown (feet)
12/08/94	947.95	2867.95	1397.95	15.73	-0.39
12/08/94	1017.95	2897.95	1427.95	15.72	-0.40
12/08/94	1047.95	2927.95	1457.95	15.72	-0.40
12/08/94	1117.95	2957.95	1487.95	15.71	-0.41
12/08/94	1147.95	2987.95	1517.95	15.70	-0.42
12/08/94	1217.95	3017.95	1547.95	15.70	-0.42
12/08/94	1247.95	3047.95	1577.95	15.69	-0.43
12/08/94	1317.95	3077.95	1607.95	15.69	-0.43
12/08/94	1347.95	3107.95	1637.95	15.68	-0.44
12/08/94	1417.95	3137.95	1667.95	15.68	-0.44
12/08/94	1447.95	3167.95	1697.95	15.67	-0.45
12/08/94	1517.95	3197.95	1727.95	15.67	-0.45

Elapsed time = Time since pumping test began

## PUMPING TEST

**WELL NO.: DW13**      **DATE OF TEST:** December 6 & 7, 1994  
**LOCATION:** Rear Parking Lot, South of Plant      **DATA COLLECTION METHOD:** Telog  
**STATIC WATER LEVEL:** 17.31 ft. (TOC)      **DISTANCE TO PUMPING WELL:** 300 ft.

Date	Time (HH:MM)	Elapsed Time (min)	Depth to Water (feet)	Drawdown (feet)
12/06/94	1000	0	17.31	0.00
12/06/94	1020	20	18.24	0.93
12/06/94	1050	50	19.41	2.10
12/06/94	1120	80	19.58	2.27
12/06/94	1150	110	19.63	2.32
12/06/94	1220	140	19.65	2.34
12/06/94	1250	170	19.66	2.35
12/06/94	1320	200	19.67	2.36
12/06/94	1350	230	19.68	2.37
12/06/94	1420	260	19.68	2.37
12/06/94	1450	290	19.69	2.38
12/06/94	1520	320	19.68	2.37
12/06/94	1550	350	19.68	2.37
12/06/94	1620	380	19.68	2.37
12/06/94	1650	410	19.68	2.37
12/06/94	1720	440	19.68	2.37
12/06/94	1750	470	19.67	2.36
12/06/94	1820	500	19.67	2.36
12/06/94	1850	530	19.67	2.36
12/06/94	1920	560	19.66	2.35
12/06/94	1950	590	19.67	2.36
12/06/94	2020	620	19.66	2.35
12/06/94	2050	650	19.66	2.35
12/06/94	2120	680	19.65	2.34
12/06/94	2150	710	19.64	2.33
12/06/94	2220	740	19.64	2.33
12/06/94	2250	770	19.65	2.34
12/06/94	2320	800	19.65	2.34
12/06/94	2350	830	19.65	2.34
12/07/94	20	860	19.65	2.34
12/07/94	50	890	19.67	2.36
12/07/94	120	920	19.68	2.37
12/07/94	150	950	19.68	2.37
12/07/94	220	980	19.65	2.34
12/07/94	250	1010	19.61	2.30
12/07/94	320	1040	19.61	2.30
12/07/94	350	1070	19.59	2.28
12/07/94	420	1100	19.57	2.26
12/07/94	450	1130	19.55	2.24
12/07/94	520	1160	19.55	2.24
12/07/94	550	1190	19.55	2.24
12/07/94	620	1220	19.54	2.23

## PUMPING TEST

**WELL NO.: DW13**

**DATE OF TEST:** December 6 & 7, 1994

**LOCATION:** Rear Parking Lot, South of Plant

**DATA COLLECTION METHOD:** Telog

**STATIC WATER LEVEL:** 17.31 ft. (TOC)

**DISTANCE TO PUMPING WELL:** 300 ft.

Date	Time (HH:MM)	Elapsed Time (min)	Depth to Water (feet)	Drawdown (feet)
12/07/94	650	1250	19.54	2.23
12/07/94	720	1280	19.52	2.21
12/07/94	750	1310	19.51	2.20
12/07/94	820	1340	19.52	2.21
12/07/94	850	1370	19.50	2.19
12/07/94	920	1400	19.50	2.19
12/07/94	950	1430	19.49	2.18
12/07/94	1020	1460	19.47	2.16
12/07/94	1030	1470	19.46	2.15

# RECOVERY TEST

**WELL NO.: DW13**

**DATE OF TEST:** December 7 & 8, 1994

**LOCATION:** Rear Parking Lot, South of Plant

**DATA COLLECTION METHOD:** Telog

**STATIC WATER LEVEL:** 17.31 ft. (TOC)

**TOTAL PUMPING TIME:** 1470 min

Date	Time (HH:MM)	"t"	"t"	Depth to Water (feet)	Residual Drawdown (feet)
		Elapsed Time * (min)	Time Since Pump Shut Off (min)		
12/07/94	1030	1470	0	19.46	2.15
12/07/94	1050	1490	20	18.45	1.14
12/07/94	1120	1520	50	17.30	-0.01
12/07/94	1150	1550	80	17.14	-0.17
12/07/94	1220	1580	110	17.10	-0.21
12/07/94	1250	1610	140	17.08	-0.23
12/07/94	1320	1640	170	17.06	-0.25
12/07/94	1350	1670	200	17.05	-0.26
12/07/94	1420	1700	230	17.03	-0.28
12/07/94	1450	1730	260	17.02	-0.29
12/07/94	1520	1760	290	16.99	-0.32
12/07/94	1550	1790	320	16.98	-0.33
12/07/94	1620	1820	350	17.00	-0.31
12/07/94	1650	1850	380	17.08	-0.23
12/07/94	1720	1880	410	17.05	-0.26
12/07/94	1750	1910	440	16.95	-0.36
12/07/94	1820	1940	470	16.91	-0.40
12/07/94	1850	1970	500	16.95	-0.36
12/07/94	1920	2000	530	16.94	-0.37
12/07/94	1950	2030	560	16.93	-0.38
12/07/94	2020	2060	590	16.80	-0.51
12/07/94	2050	2090	620	16.66	-0.65
12/07/94	2120	2120	650	16.70	-0.61
12/07/94	2150	2150	680	16.81	-0.50
12/07/94	2220	2180	710	16.83	-0.48
12/07/94	2250	2210	740	16.69	-0.62
12/07/94	2320	2240	770	16.66	-0.65
12/07/94	2350	2270	800	16.80	-0.51
12/07/94	20	2300	830	16.78	-0.53
12/08/94	50	2330	860	16.77	-0.54
12/08/94	120	2360	890	16.78	-0.53
12/08/94	150	2390	920	16.63	-0.68
12/08/94	220	2420	950	16.66	-0.65
12/08/94	250	2450	980	16.46	-0.85
12/08/94	320	2480	1010	16.22	-1.09
12/08/94	350	2510	1040	16.02	-1.29
12/08/94	420	2540	1070	16.41	-0.90
12/08/94	450	2570	1100	16.51	-0.80
12/08/94	520	2600	1130	16.52	-0.79
12/08/94	550	2630	1160	16.35	-0.96
12/08/94	620	2660	1190	16.38	-0.93
12/08/94	650	2690	1220	16.33	-0.98
12/08/94	720	2720	1250	16.12	-1.19
12/08/94	750	2750	1280	16.33	-0.98
12/08/94	820	2780	1310	16.27	-1.04
12/08/94	850	2810	1340	16.30	-1.01
12/08/94	920	2840	1370	16.31	-1.00

## RECOVERY TEST

**WELL NO.:** DW13

**DATE OF TEST:** December 7 & 8, 1994

**LOCATION:** Rear Parking Lot, South of Plant

**DATA COLLECTION METHOD:** Telog

**STATIC WATER LEVEL:** 17.31 ft. (TOC)

**TOTAL PUMPING TIME:** 1470 min

Date	Time (HH:MM)	"t" Elapsed Time * (min)	"t" Time Since Pump Shut Off (min)	Depth to Water (feet)	Residual Drawdown (feet)
12/08/94	950	2870	1400	16.34	-0.97
12/08/94	1020	2900	1430	16.35	-0.96
12/08/94	1050	2930	1460	16.35	-0.96
12/08/94	1120	2960	1490	16.34	-0.97
12/08/94	1150	2990	1520	16.34	-0.97
12/08/94	1220	3020	1550	16.34	-0.97
12/08/94	1250	3050	1580	16.33	-0.98
12/08/94	1320	3080	1610	16.33	-0.98
12/08/94	1350	3110	1640	16.33	-0.98
12/08/94	1420	3140	1670	16.33	-0.98
12/08/94	1450	3170	1700	16.32	-0.99

Elapsed time = Time since pumping test began

## PUMPING TEST

**WELL NO.: MW2S (NYSDEC)**      **DATE OF TEST:** December 6 & 7, 1994  
**LOCATION:** Residence West of Plant      **DATA COLLECTION METHOD:** Hand  
**STATIC WATER LEVEL:** ???? ft. (TOC)      **DISTANCE TO PUMPING WELL:** 750 ft.

Date	Time (HH:MM)	Elapsed Time (min)	Depth to Water (feet)	Drawdown (feet)
12/06/94	1255	175	34.73	????*
12/06/94	1422	262	34.58	????*
12/06/94	1524	324	34.67	????*
12/06/94	1625	385	34.65	????*
12/06/94	1727	447	34.64	????*
12/06/94	1832	512	34.49	????*
12/06/94	1927	567	34.60	????*
12/06/94	2020	620	34.60	????*
12/06/94	2132	692	34.64	????*
12/06/94	2249	769	34.45	????*
12/06/94	2319	799	34.40	????*
12/07/94	16	856	34.40	????*
12/07/94	115	915	34.38	????*
12/07/94	215	975	34.35	????*
12/07/94	315	1035	34.35	????*
12/07/94	415	1095	34.30	????*
12/07/94	515	1155	34.35	????*
12/07/94	624	1224	34.33	????*
12/07/94	732	1292	34.35	????*
12/07/94	820	1340	34.35	????*
12/07/94	926	1406	34.35	????*

\* Do not have a static water level from which to calculate drawdown

## RECOVERY TEST

**WELL NO.: MW2S (NYSDEC)**

**DATE OF TEST:** December 7 & 8, 1994

**LOCATION:** Residence West of Plant

**DATA COLLECTION METHOD:** Hand

**STATIC WATER LEVEL:** ???? ft. (TOC)

**TOTAL PUMPING TIME:** 1470 min

Date	Time (HH:MM)	"t" Elapsed Time * (min)	"t" Time Since Pump Shut Off (min)	Depth to Water (feet)	Residual Drawdown (feet)
12/07/94	1119	1519	49	34.32	????**
12/07/94	1217	1577	107	34.15	????**
12/07/94	1325	1645	175	34.24	????**
12/07/94	1421	1701	231	34.25	????**
12/07/94	1519	1759	289	34.25	????**
12/07/94	1624	1824	354	34.20	????**
12/07/94	1744	1904	434	34.23	????**
12/07/94	1819	1939	469	34.22	????**
12/07/94	1919	1999	529	34.21	????**
12/07/94	2021	2061	591	34.19	????**
12/07/94	2117	2117	647	34.18	????**
12/07/94	2213	2173	703	34.14	????**
12/08/94	814	2774	1304	33.89	????**

\* Elapsed time = Time since pumping began

\*\* Do not have a static water level from which to calculate drawdown



## PUMPING TEST

**WELL NO.: MW2D (NYSDEC)**      **DATE OF TEST:** December 6 & 7, 1994  
**LOCATION:** Residence West of Plant      **DATA COLLECTION METHOD:** Hand  
**STATIC WATER LEVEL:** 34.50 ft. (TOC)      **DISTANCE TO PUMPING WELL:** 750 ft.

Date	Time (HH:MM)	Elapsed Time (min)	Depth to Water (feet)	Drawdown (feet)
12/06/94	1104	64.00	34.50	0.00
12/06/94	1256	176.00	34.75	0.25
12/06/94	1423	263.00	34.58	0.08
12/06/94	1525	325.00	34.67	0.17
12/06/94	1626	386.00	34.66	0.16
12/06/94	1728	448.00	34.56	0.06
12/06/94	1833	513.00	34.58	0.08
12/06/94	1928	568.00	34.60	0.10
12/06/94	2022	622.00	34.58	0.08
12/06/94	2133	693.00	34.66	0.16
12/06/94	2250	770.00	34.42	-0.08
12/06/94	2321	801.00	34.40	-0.10
12/07/94	18	858.00	34.50	0.00
12/07/94	117	917.00	34.50	0.00
12/07/94	216	976.00	34.47	-0.03
12/07/94	316	1036.00	34.46	-0.04
12/07/94	414	1094.00	34.40	-0.10
12/07/94	520	1160.00	34.40	-0.10
12/07/94	626	1226.00	34.30	-0.20
12/07/94	734	1294.00	34.30	-0.20
12/07/94	821	1341.00	34.35	-0.15
12/07/94	928	1408.00	34.35	-0.15

## RECOVERY TEST

**WELL NO.: MW2D (NYSDEC)**

**DATE OF TEST:** December 7 & 8, 1994

**LOCATION:** Residence West of Plant

**DATA COLLECTION METHOD:** Hand

**STATIC WATER LEVEL:** 34.50 ft. (TOC)

**TOTAL PUMPING TIME:** 1470 min

Date	Time (HH:MM)	"t" Elapsed Time * (min)	"t" Time Since Pump Shut Off (min)	Depth to Water (feet)	Residual Drawdown (feet)
12/07/94	1121	1521	51	34.13	-0.37
12/07/94	1219	1579	109	34.07	-0.43
12/07/94	1327	1647	177	34.03	-0.47
12/07/94	1423	1703	233	34.05	-0.45
12/07/94	1520	1760	290	34.01	-0.49
12/07/94	1626	1826	356	34.08	-0.42
12/07/94	1745	1905	435	34.01	-0.49
12/07/94	1821	1941	471	34.00	-0.50
12/07/94	1921	2001	531	34.00	-0.50
12/07/94	2023	2063	593	34.00	-0.50
12/07/94	2118	2118	648	33.99	-0.51
12/07/94	2214	2174	704	33.94	-0.56
12/08/94	816	2776	1306	33.84	-0.66

\* Elapsed time = Time since pumping began

## PUMPING TEST

**WELL NO.: MW3D (NYSDEC)**

**DATE OF TEST: December 6 & 7, 1994**

**LOCATION: Camden Street Well Field**

**DATA COLLECTION METHOD: Hand**

**STATIC WATER LEVEL: 40.87 ft. (TOC)**

**DISTANCE TO PUMPING WELL: 1100 ft.**

Date	Time (HH:MM)	Elapsed Time (min)	Depth to Water (feet)	Drawdown (feet)
12/06/94	1110	70	40.87	0.00
12/06/94	1259	179	40.93	0.06
12/06/94	1430	270	40.87	0.00
12/06/94	1532	332	40.83	-0.04
12/06/94	1629	389	40.80	-0.07
12/06/94	1741	461	40.77	-0.10
12/06/94	1843	523	40.73	-0.14
12/06/94	1936	576	40.72	-0.15
12/06/94	2027	627	40.68	-0.19
12/06/94	2139	699	40.65	-0.22
12/06/94	2256	776	40.49	-0.38
12/06/94	2327	807	40.56	-0.31
12/07/94	629	1229	40.25	-0.62
12/07/94	736	1296	40.25	-0.62
12/07/94	825	1345	40.21	-0.66
12/07/94	935	1415	40.20	-0.67

## RECOVERY TEST

**WELL NO.:** MW3D (NYSDEC)

**DATE OF TEST:** December 7 & 8, 1994

**LOCATION:** Camden Street Well Field

**DATA COLLECTION METHOD:** Hand

**STATIC WATER LEVEL:** 40.87 ft. (TOC)

**TOTAL PUMPING TIME:** 1470 min

Date	Time (HH:MM)	"t" Elapsed Time * (min)	"t" Time Since Pump Shut Off (min)	Depth to Water (feet)	Residual Drawdown (feet)
12/07/94	1127	1527	57	40.26	-0.61
12/07/94	1225	1585	115	40.25	-0.62
12/07/94	1332	1652	182	40.22	-0.65
12/07/94	1432	1712	242	40.24	-0.63
12/07/94	1525	1765	295	40.18	-0.69
12/07/94	1629	1829	359	40.19	-0.68
12/07/94	1749	1909	439	40.13	-0.74
12/07/94	1826	1946	476	40.18	-0.69
12/07/94	1924	2004	534	40.11	-0.76
12/07/94	2025	2065	595	40.10	-0.77
12/07/94	2121	2121	651	40.08	-0.79
12/07/94	2218	2178	708	40.07	-0.80
12/08/94	828	2788	1318	39.93	-0.94

\*Elapsed time = Time since pumping began

## PUMPING TEST

**WELL NO.: MW7S (NYSDEC)**

**DATE OF TEST: December 6 & 7, 1994**

**LOCATION: Former Convenience Store**

**DATA COLLECTION METHOD: Hand**

**STATIC WATER LEVEL: ???? ft. (TOC)**

**DISTANCE TO PUMPING WELL: 1310 ft.**

Date	Time (HH:MM)	Elapsed Time (min)	Depth to Water (feet)	Drawdown (feet)
12/06/94	1434	274	25.18	????*
12/06/94	1536	336	25.15	????*
12/06/94	1634	394	25.13	????*
12/06/94	1744	464	25.12	????*
12/06/94	1849	529	25.10	????*
12/06/94	1941	581	25.09	????*
12/06/94	2031	631	25.07	????*
12/06/94	2143	703	25.04	????*
12/06/94	2300	780	25.03	????*
12/06/94	2329	809	25.02	????*
12/07/94	25	865	24.99	????*
12/07/94	120	920	24.99	????*
12/07/94	221	981	24.97	????*
12/07/94	321	1041	24.94	????*
12/07/94	418	1098	24.92	????*
12/07/94	525	1165	24.91	????*
12/07/94	633	1233	24.89	????*
12/07/94	739	1299	24.86	????*
12/07/94	827	1347	24.85	????*
12/07/94	936	1416	24.81	????*

\* Do not have a static water level from which to calculate drawdown

## RECOVERY TEST

**WELL NO.: MW7S (NYSDEC)**  
**LOCATION: Former Convenience Store**  
**STATIC WATER LEVEL: ???? ft. (TOC)**

**DATE OF TEST: December 7 & 8, 1994**  
**DATA COLLECTION METHOD: Hand**  
**TOTAL PUMPING TIME: 1470 min**

Date	Time (HH:MM)	"t" Elapsed Time * (min)	"t" Time Since Pump Shut Off (min)	Depth to Water (feet)	Residual Drawdown (feet)
12/07/94	1131	1531	61	24.81	????**
12/07/94	1229	1589	119	24.80	????**
12/07/94	1334	1654	184	24.78	????**
12/07/94	1435	1715	245	24.77	????**
12/07/94	1529	1769	299	24.75	????**
12/07/94	1633	1833	363	24.74	????**
12/07/94	1751	1911	441	24.72	????**
12/07/94	1828	1948	478	24.72	????**
12/07/94	1927	2007	537	24.71	????**
12/07/94	2029	2069	599	24.68	????**
12/07/94	2123	2123	653	24.68	????**
12/07/94	2221	2181	711	24.68	????**
12/08/94	833	2793	1323	24.54	????**

\* Elapsed time = Time since pumping began

\*\* Do not have a static water level from which to calculate drawdown

## PUMPING TEST

**WELL NO.: MW81 (NYSDEC)**      **DATE OF TEST:** December 6 & 7, 1994  
**LOCATION:** Southern end of Berwin Street      **DATA COLLECTION METHOD:** Hand  
**STATIC WATER LEVEL:** ???? ft. (TOC)      **DISTANCE TO PUMPING WELL:** 970 ft.

Date	Time (HH:MM)	Elapsed Time (min)	Depth to Water (feet)	Drawdown (feet)
12/06/94	1429	269	34.67	????*
12/06/94	1529	329	34.63	????*
12/06/94	1627	387	34.62	????*
12/06/94	1737	457	34.57	????*
12/06/94	1840	520	34.56	????*
12/06/94	1932	572	34.55	????*
12/06/94	2024	624	34.53	????*
12/06/94	2137	697	34.49	????*
12/06/94	2252	772	34.46	????*
12/06/94	2323	803	34.45	????*
12/07/94	22	862	34.43	????*
12/07/94	117	917	34.42	????*
12/07/94	217	977	34.39	????*
12/07/94	317	1037	34.36	????*
12/07/94	415	1095	34.34	????*
12/07/94	522	1162	34.31	????*
12/07/94	627	1227	34.30	????*
12/07/94	734	1294	34.29	????*
12/07/94	822	1342	34.27	????*
12/07/94	931	1411	34.23	????*

\* Do not have a static water level from which to calculate drawdown

## RECOVERY TEST

**WELL NO.: MW8I (NYSDEC)**

**DATE OF TEST: December 7 & 8, 1994**

**LOCATION: Southern end of Berwin Street**

**DATA COLLECTION METHOD: Hand**

**STATIC WATER LEVEL: ???? ft. (TOC)**

**TOTAL PUMPING TIME: 1470 min**

Date	Time (HH:MM)	"t" Elapsed Time * (min)	"t" Time Since Pump Shut Off (min)	Depth to Water (feet)	Residual Drawdown (feet)
12/07/94	1122	1522	52	34.21	????**
12/07/94	1222	1582	112	34.19	????**
12/07/94	1329	1649	179	34.16	????**
12/07/94	1426	1706	236	34.15	????**
12/07/94	1522	1762	292	34.13	????**
12/07/94	1625	1825	355	34.12	????**
12/07/94	1747	1907	437	34.10	????**
12/07/94	1822	1942	472	34.08	????**
12/07/94	1921	2001	531	34.06	????**
12/07/94	2024	2064	594	34.05	????**
12/07/94	2119	2119	649	34.04	????**
12/07/94	2216	2176	706	34.03	????**
12/08/94	822	2782	1312	33.88	????**

\* Elapsed time = Time since pumping began

\*\* Do not have a static water level from which to calculate drawdown



## PUMPING TEST

**WELL NO.: MW9S (NYSDEC)**      **DATE OF TEST:** December 6 & 7  
**LOCATION:** Residence West of Plant      **DATA COLLECTION METHOD:**  
**STATIC WATER LEVEL:** ???? ft. (TOC)      **DISTANCE TO PUMPING WELL:**

Date	Time (HH:MM)	Elapsed Time (min)	Depth to Water (feet)	Drawdown (feet)
12/06/94	1416	256	24.80	????*
12/06/94	1521	321	24.77	????*
12/06/94	1620	380	24.75	????*
12/06/94	1720	440	24.73	????*
12/06/94	1828	508	24.71	????*

\* Do not have a static water level from which to calculate drawdown

## RECOVERY TEST

**WELL NO.:** MW9S (NYSDEC)

**DATE OF TEST:** December 7 & 8, 1994

**LOCATION:** Residence West of Plant

**DATA COLLECTION METHOD:** Hand

**STATIC WATER LEVEL:** ???? ft. (TOC)

**TOTAL PUMPING TIME:** 1470 min

Date	Time (HH:MM)	"t" Elapsed Time * (min)	"t" Time Since Pump Shut Off (min)	Depth to Water (feet)	Residual Drawdown (feet)
12/07/94	1114	1514	44	24.44	????**
12/07/94	1214	1574	104	24.43	????**
12/07/94	1323	1643	173	24.41	????**
12/07/94	1418	1698	228	24.40	????**
12/07/94	1517	1757	287	24.38	????**
12/07/94	1619	1819	349	24.36	????**
12/07/94	1739	1899	429	24.36	????**
12/07/94	1815	1935	465	24.35	????**
12/07/94	1915	1995	525	24.32	????**
12/08/94	810	2770	1300	24.16	????**

\* Elapsed time = Time since pumping began

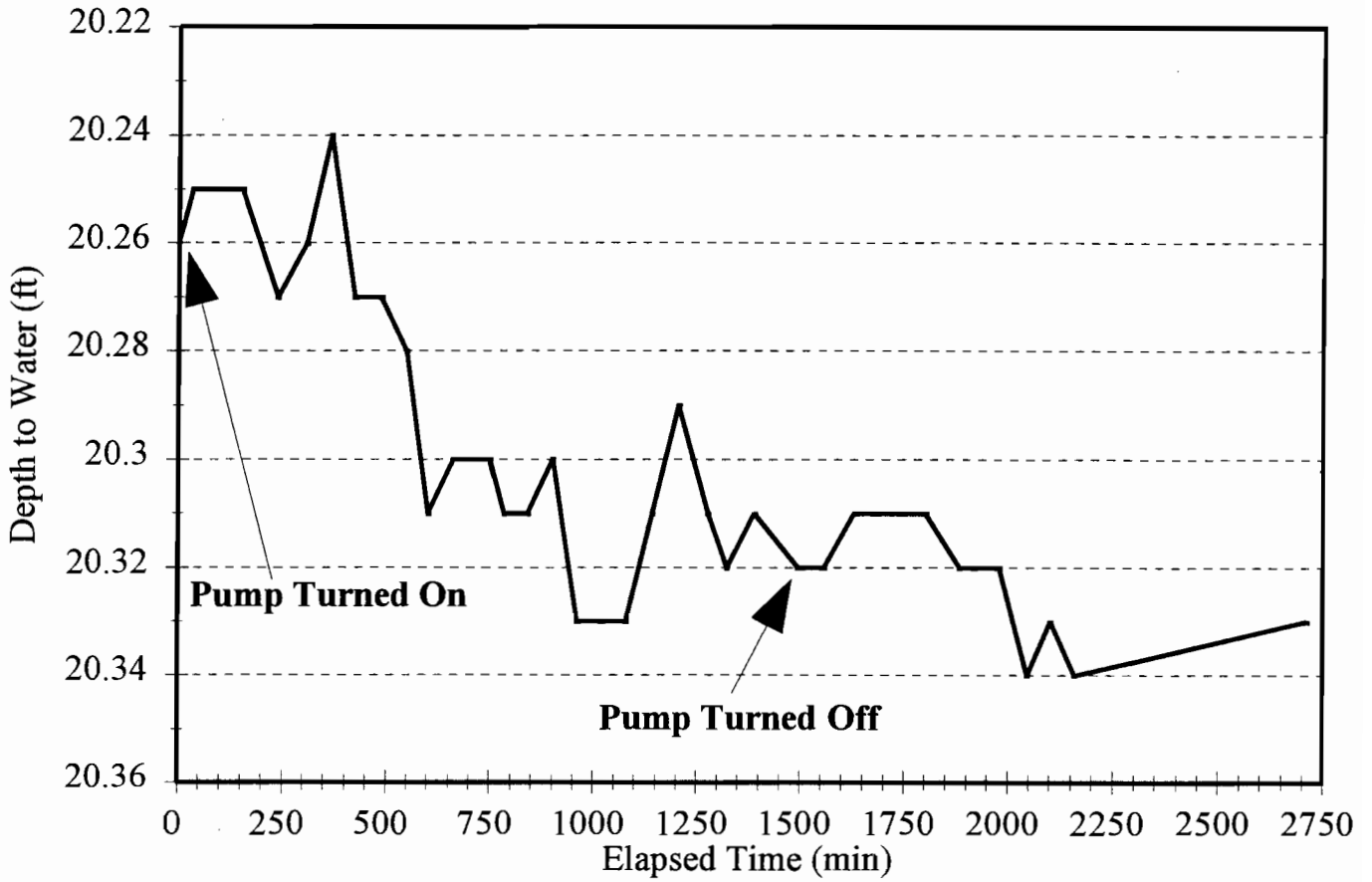
\*\* Do not have a static water level from which to calculate drawdown

# **A P P E N D I X D**

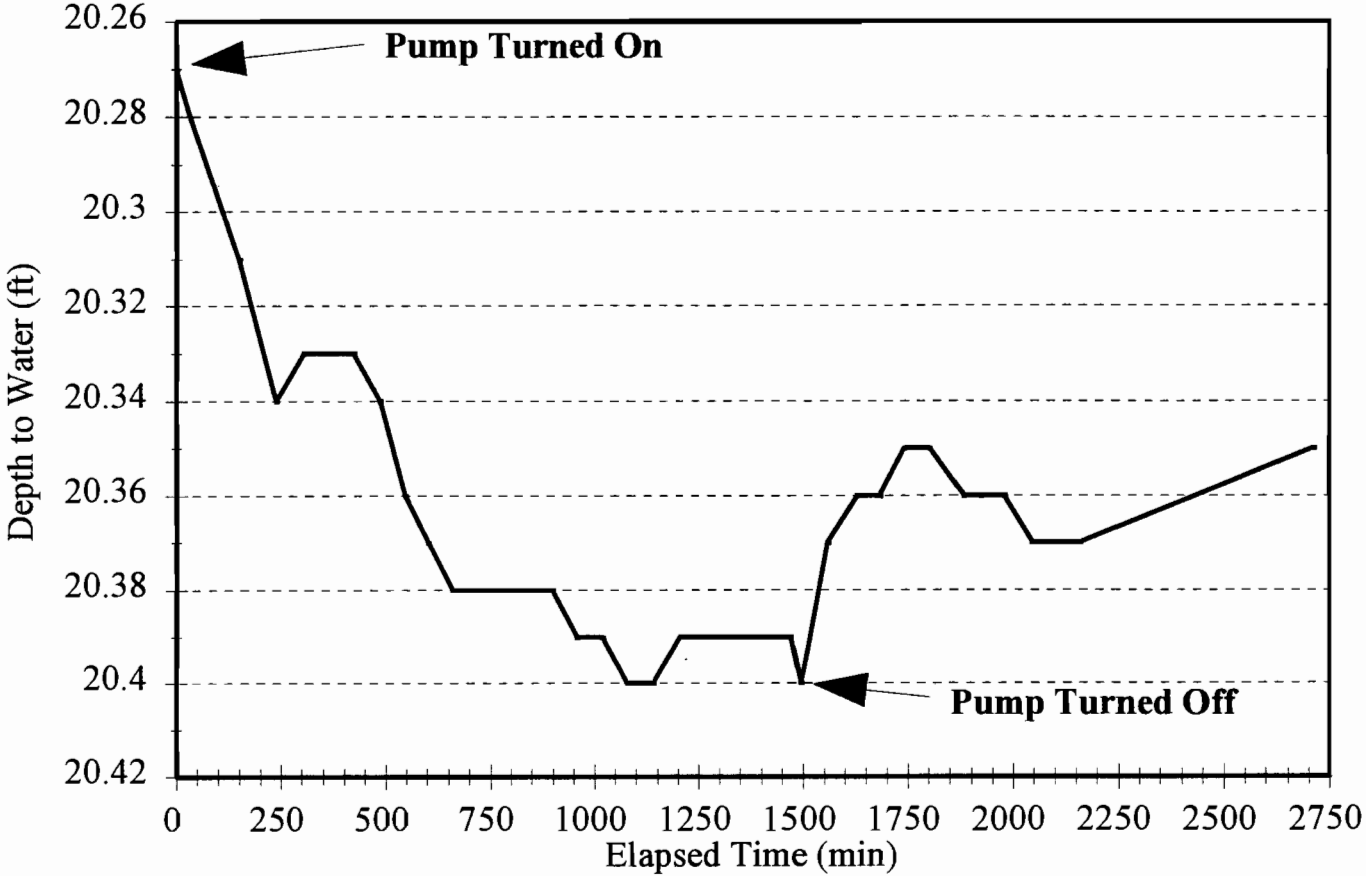
## **DEPTH TO WATER VERSUS ELAPSED TIME GRAPHS**

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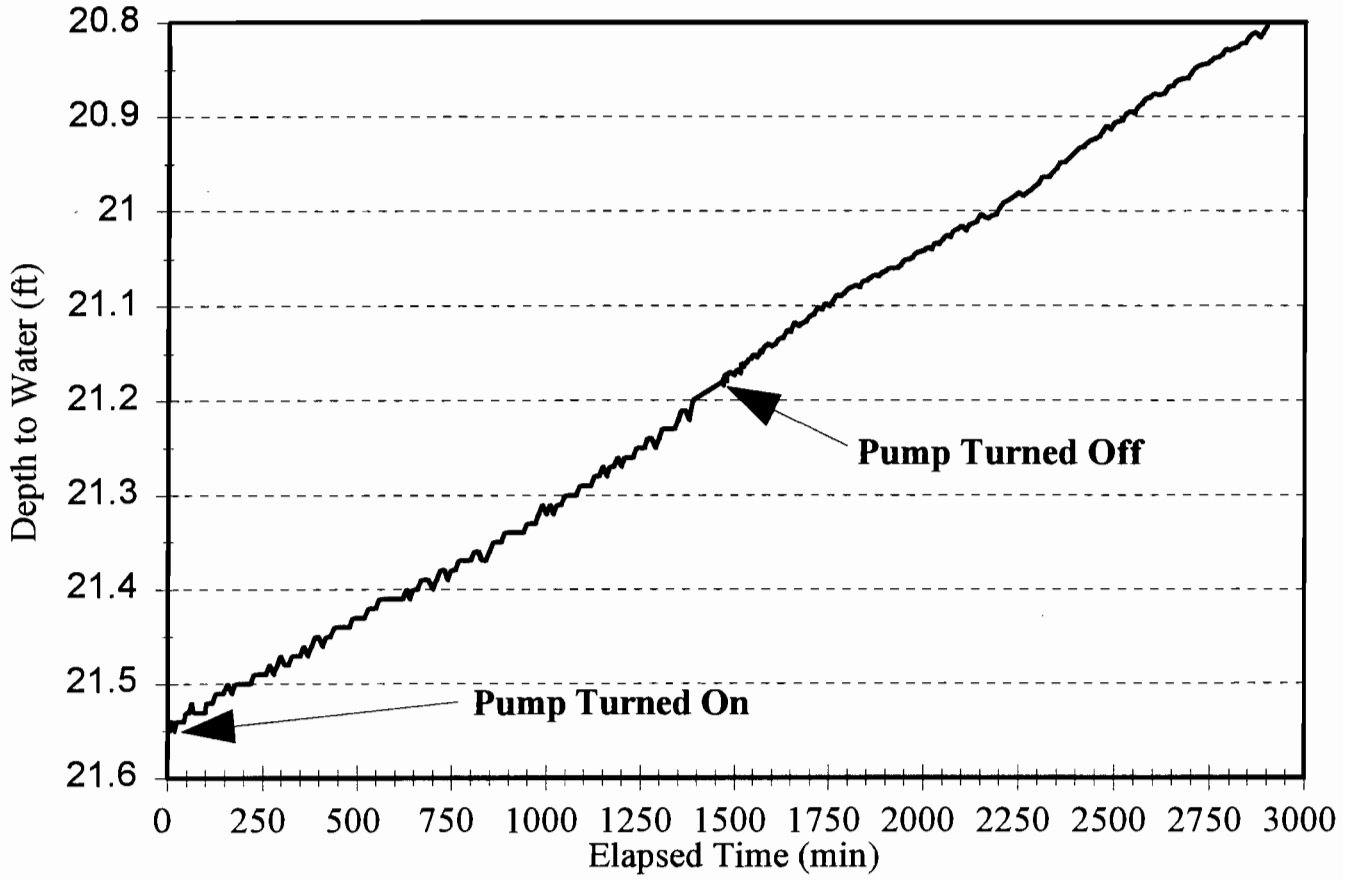
# SW1 HYDROGRAPH



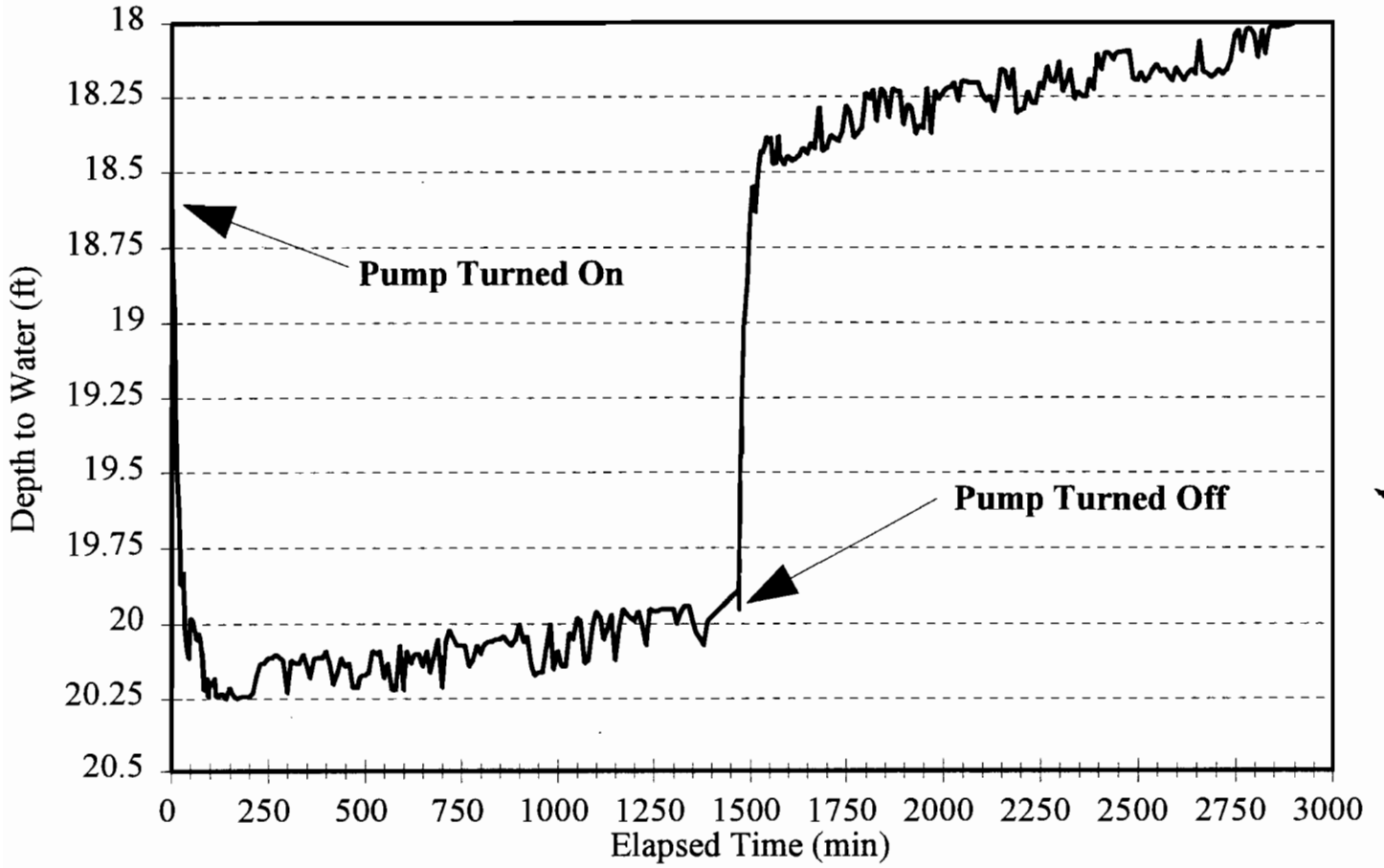
# DW1 HYDROGRAPH



# SW3 HYDROGRAPH

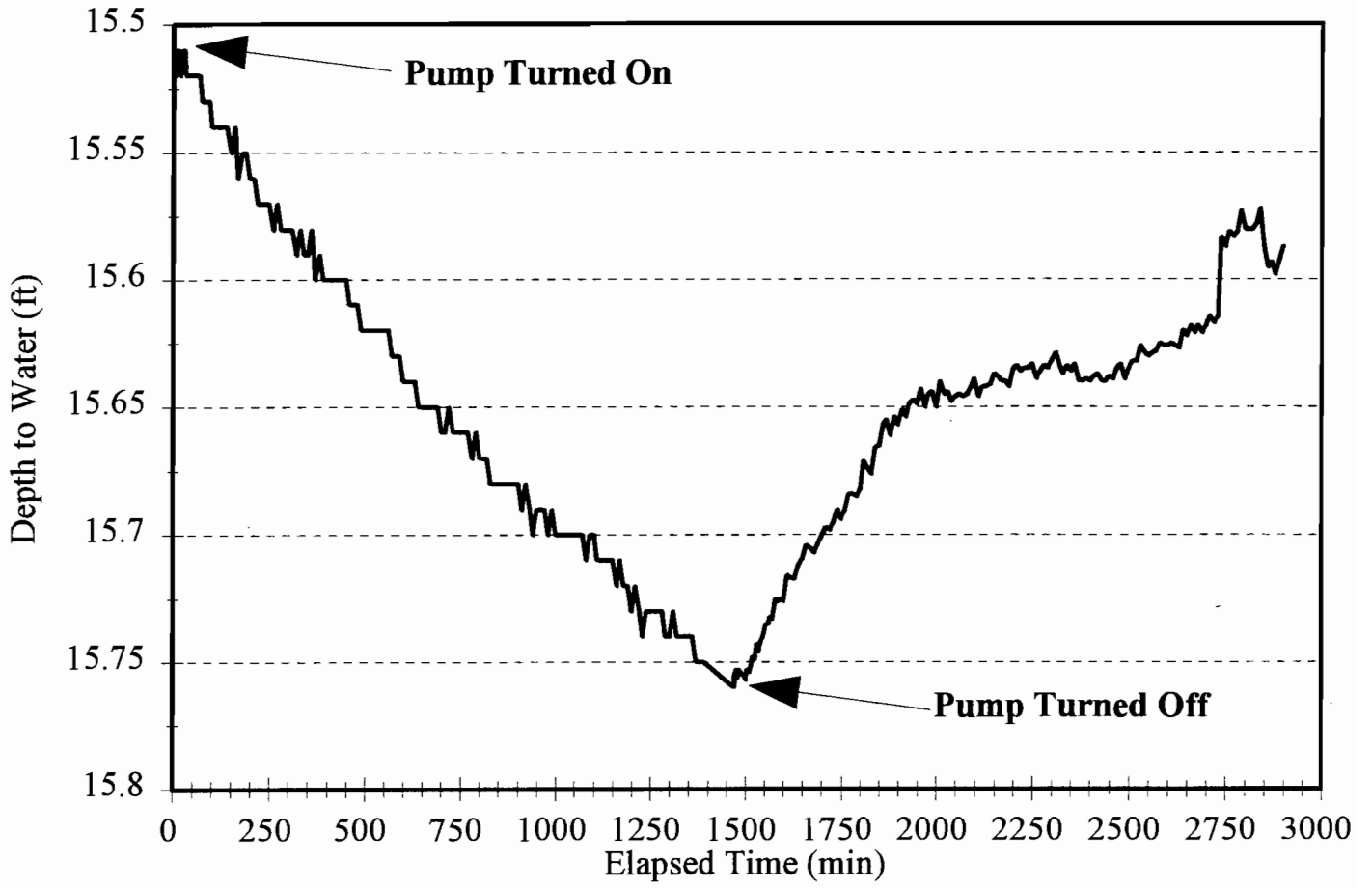


# DW3 HYDROGRAPH

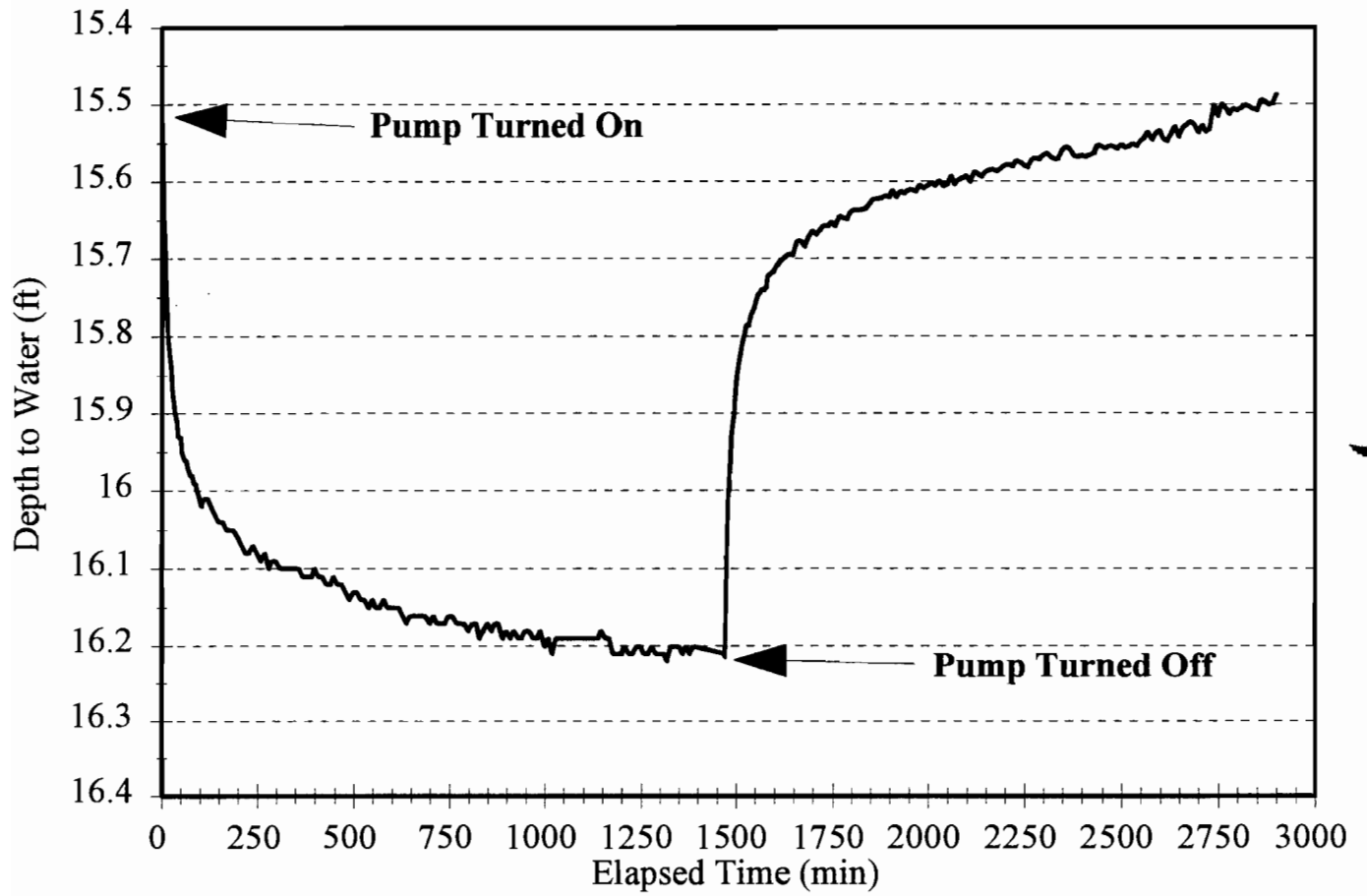




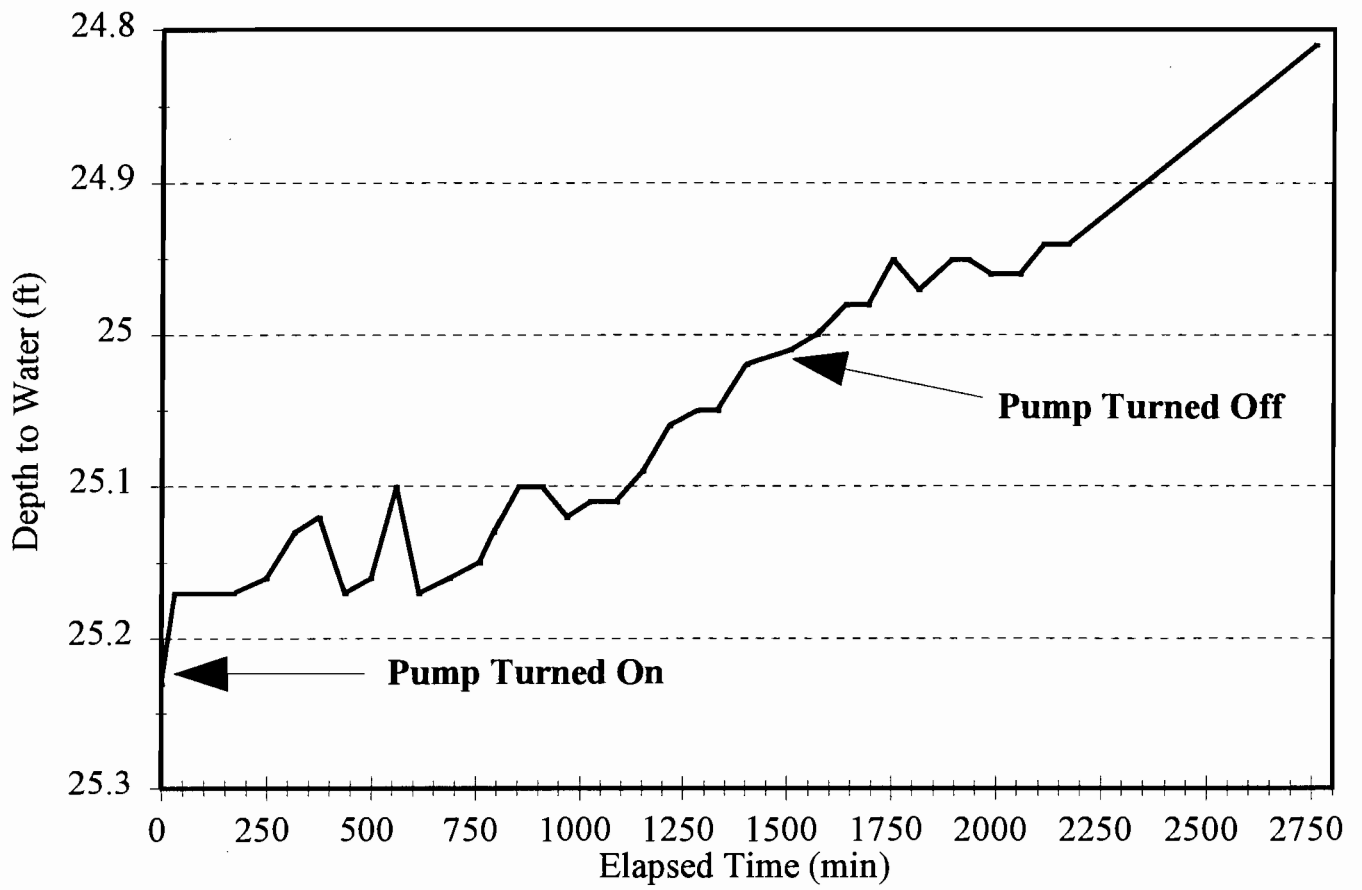
# SW4 HYDROGRAPH



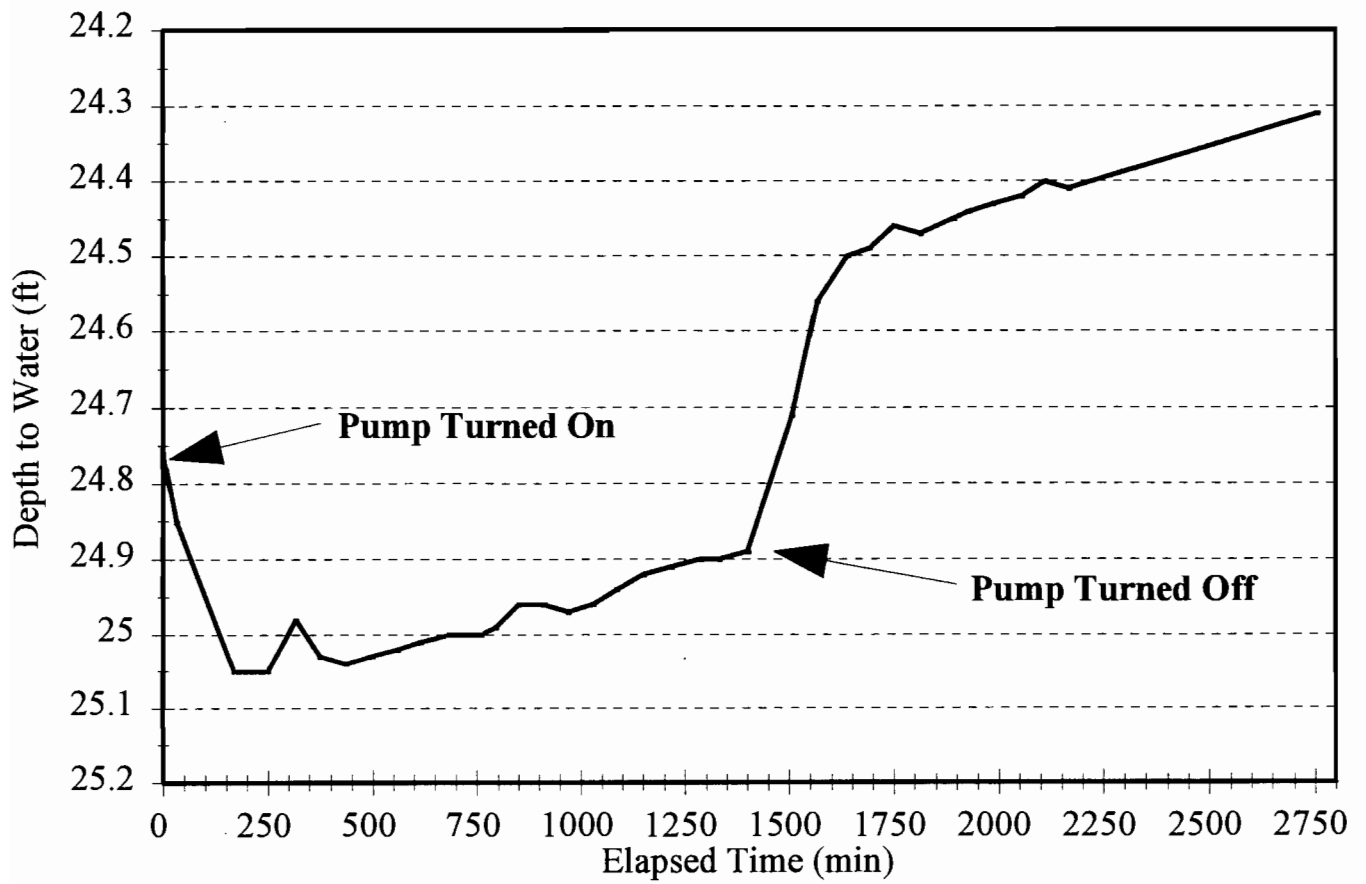
# DW4 HYDROGRAPH



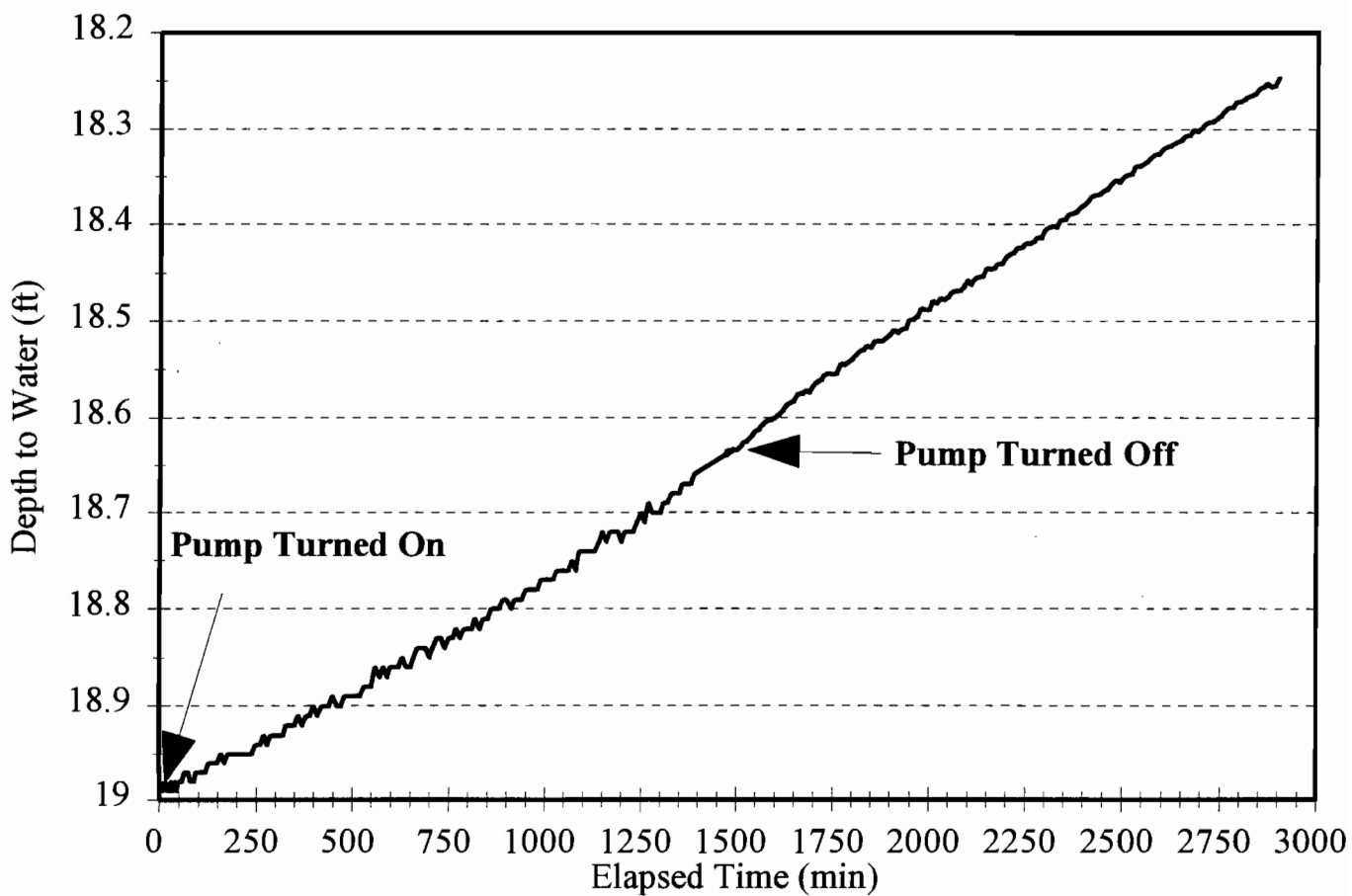
# SW5 HYDROGRAPH



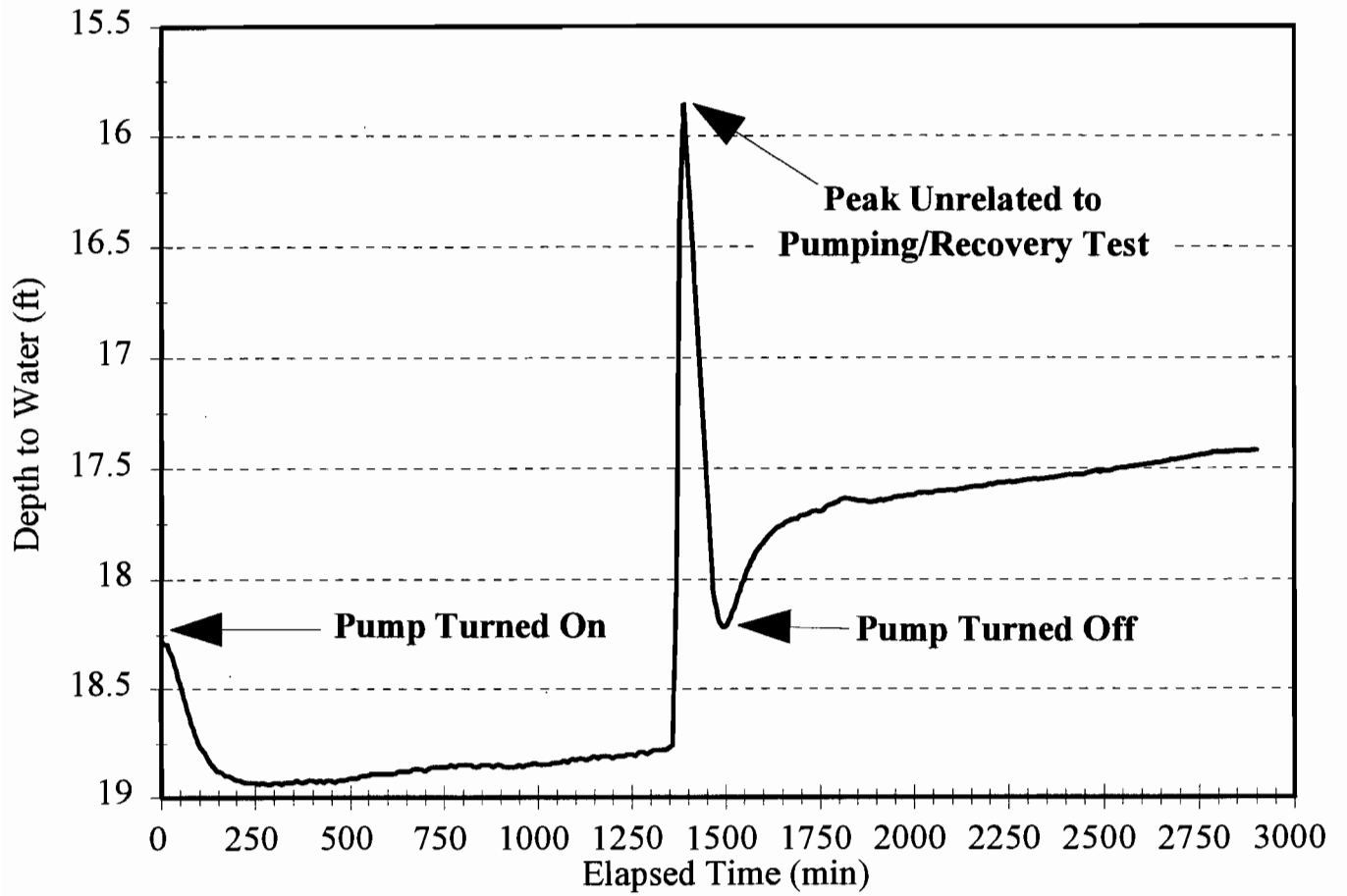
## DW5 HYDROGRAPH



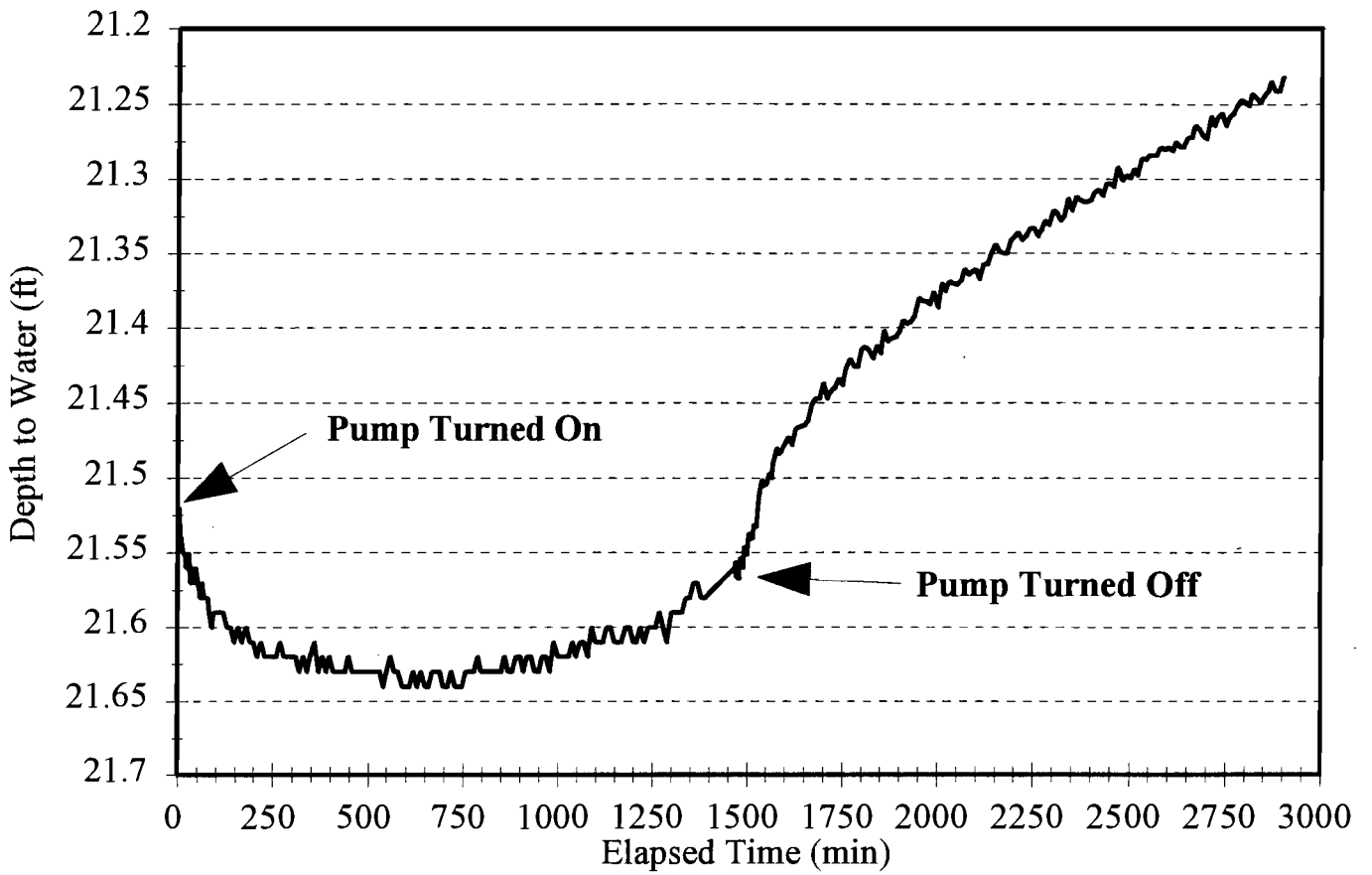
# SW6 HYDROGRAPH



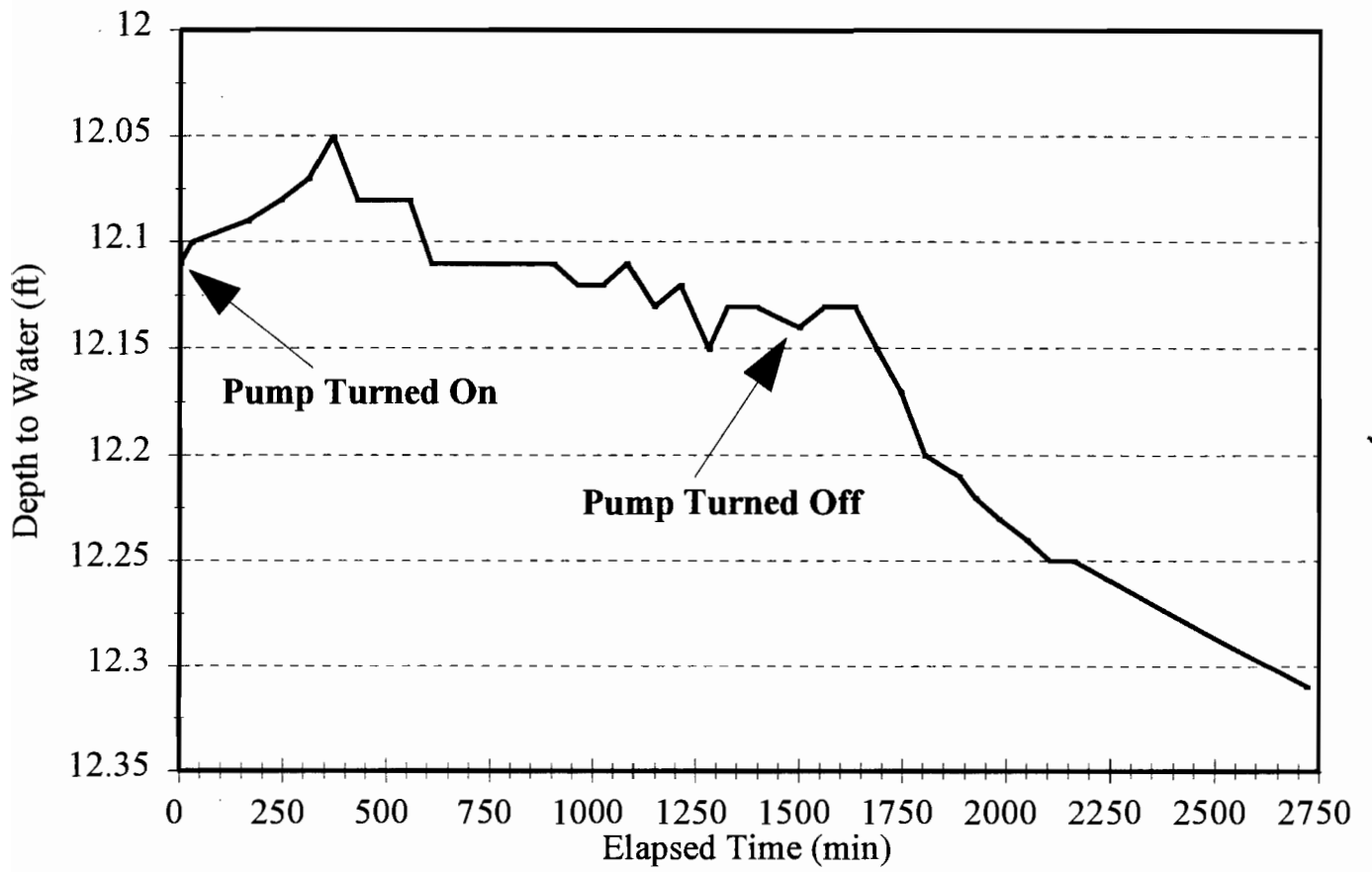
## DW6 HYDROGRAPH



# SW7 HYDROGRAPH

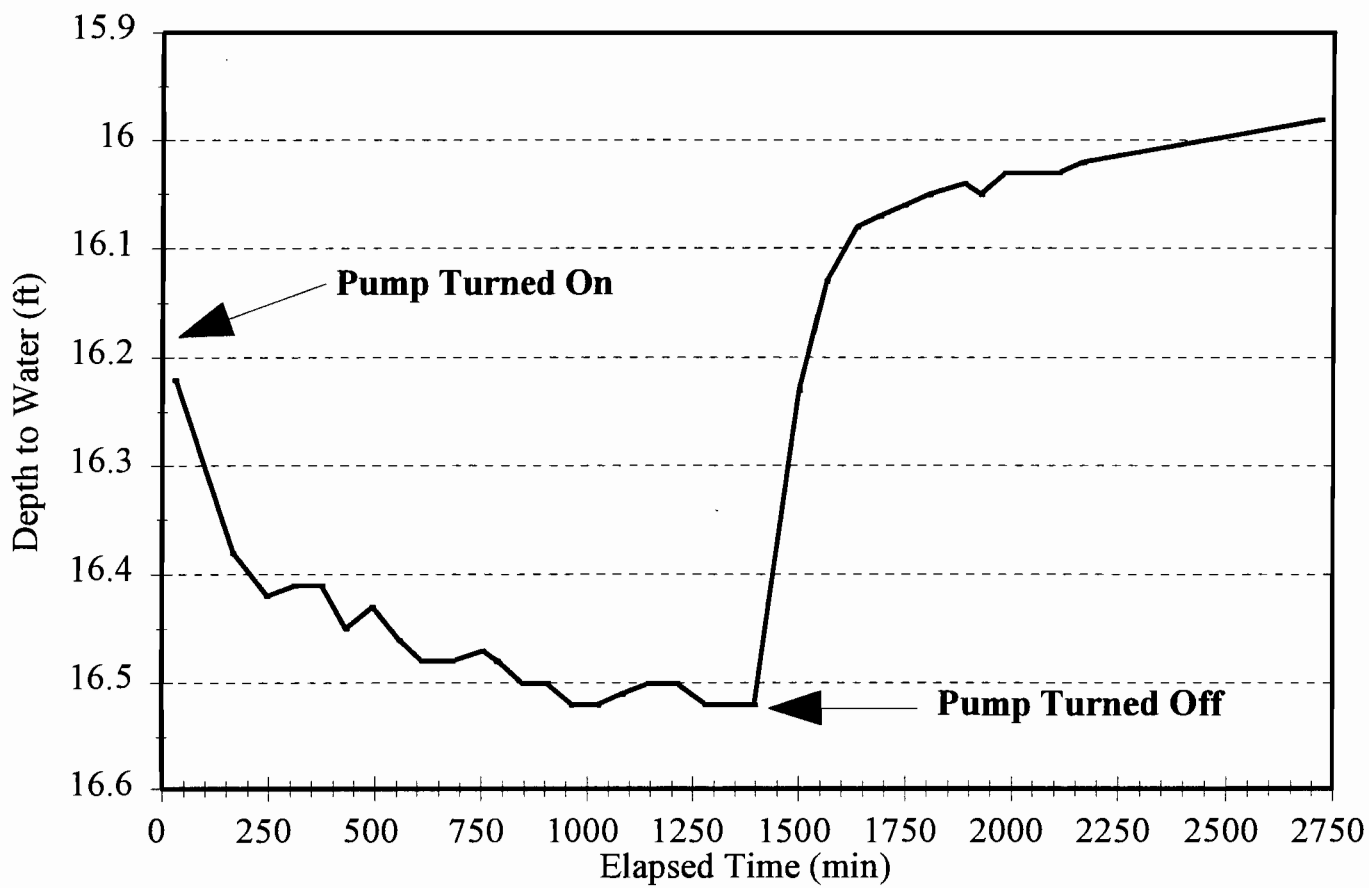


# SW8 HYDROGRAPH

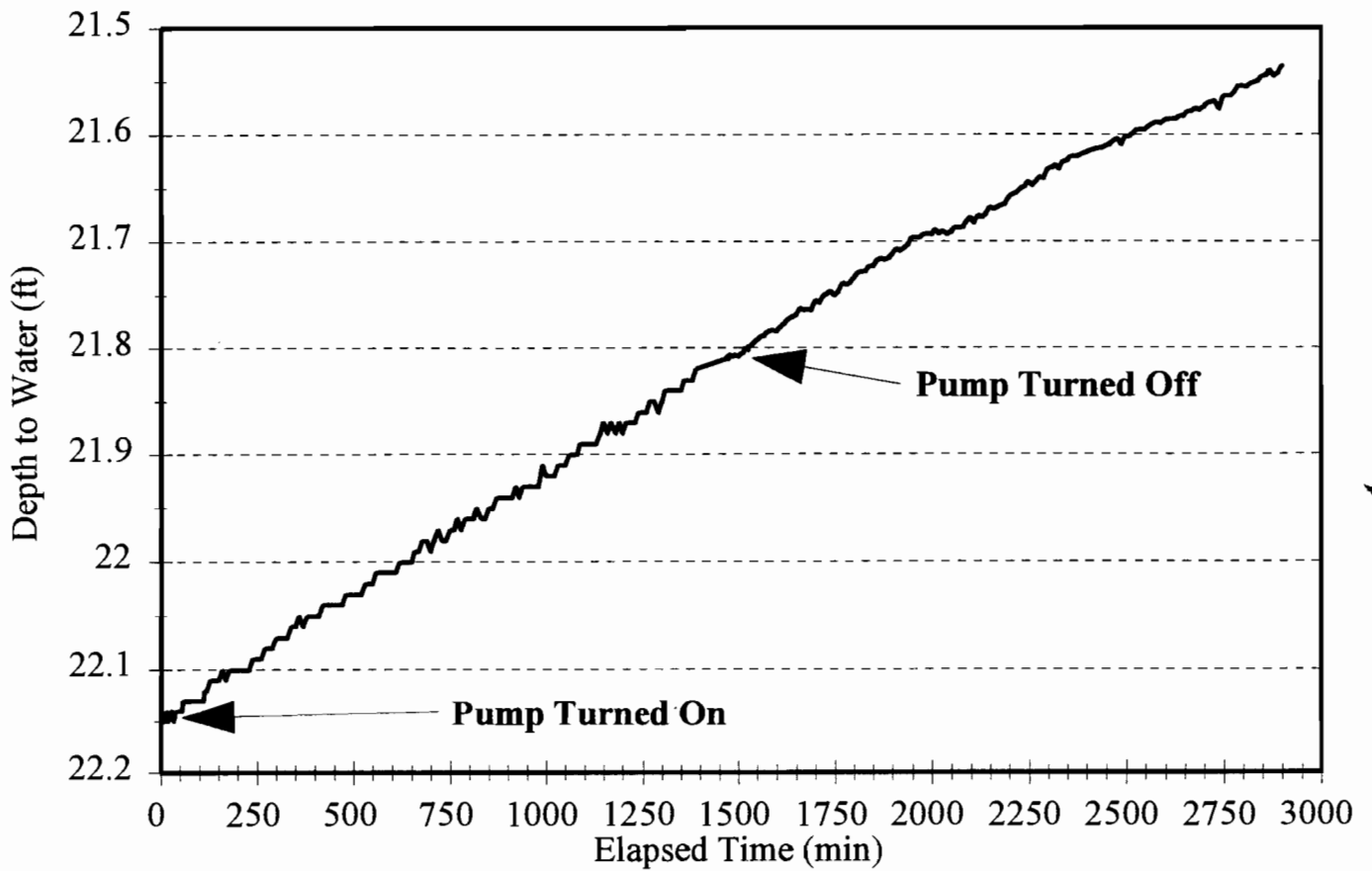




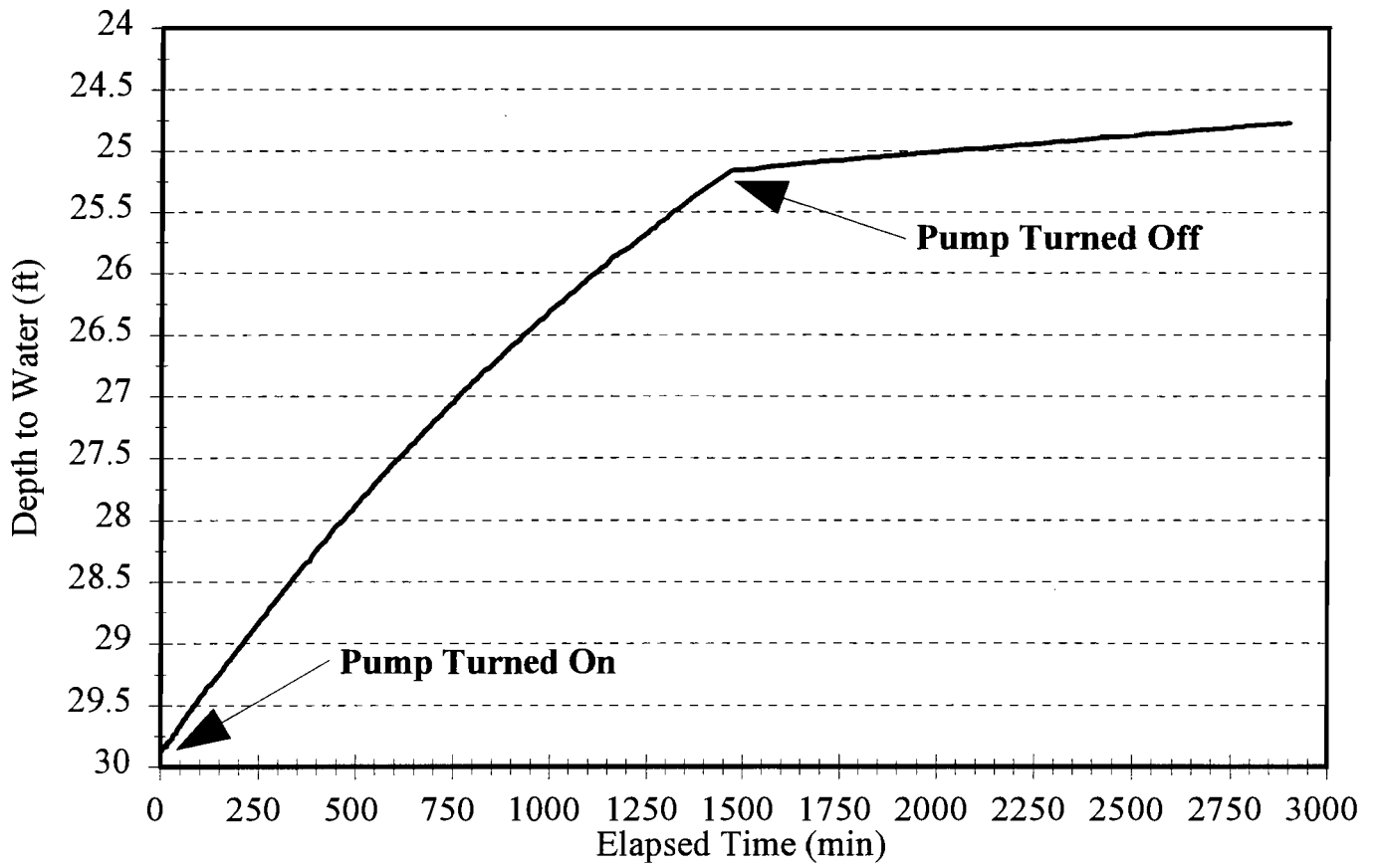
# DW8 HYDROGRAPH



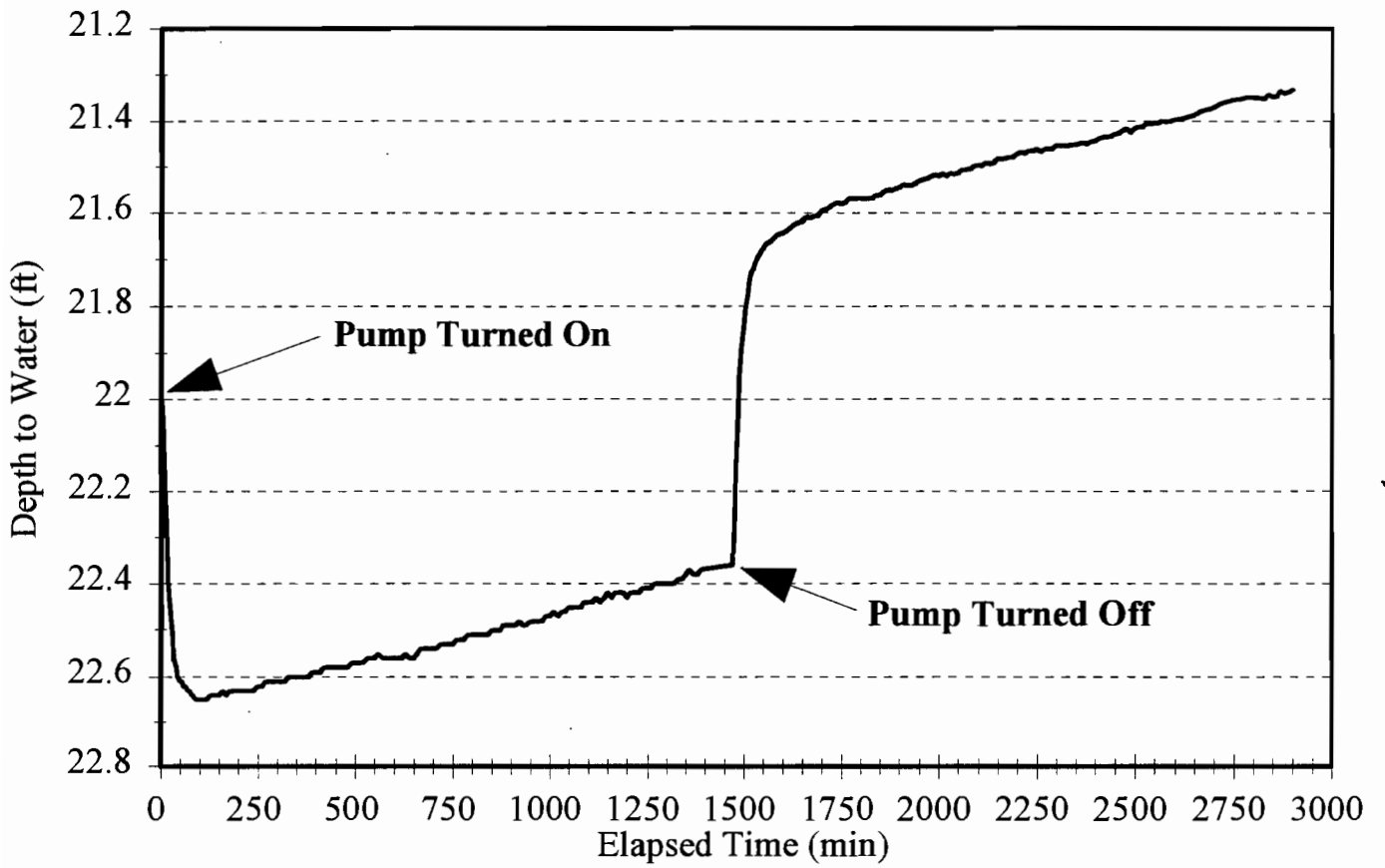
# SW9 HYDROGRAPH



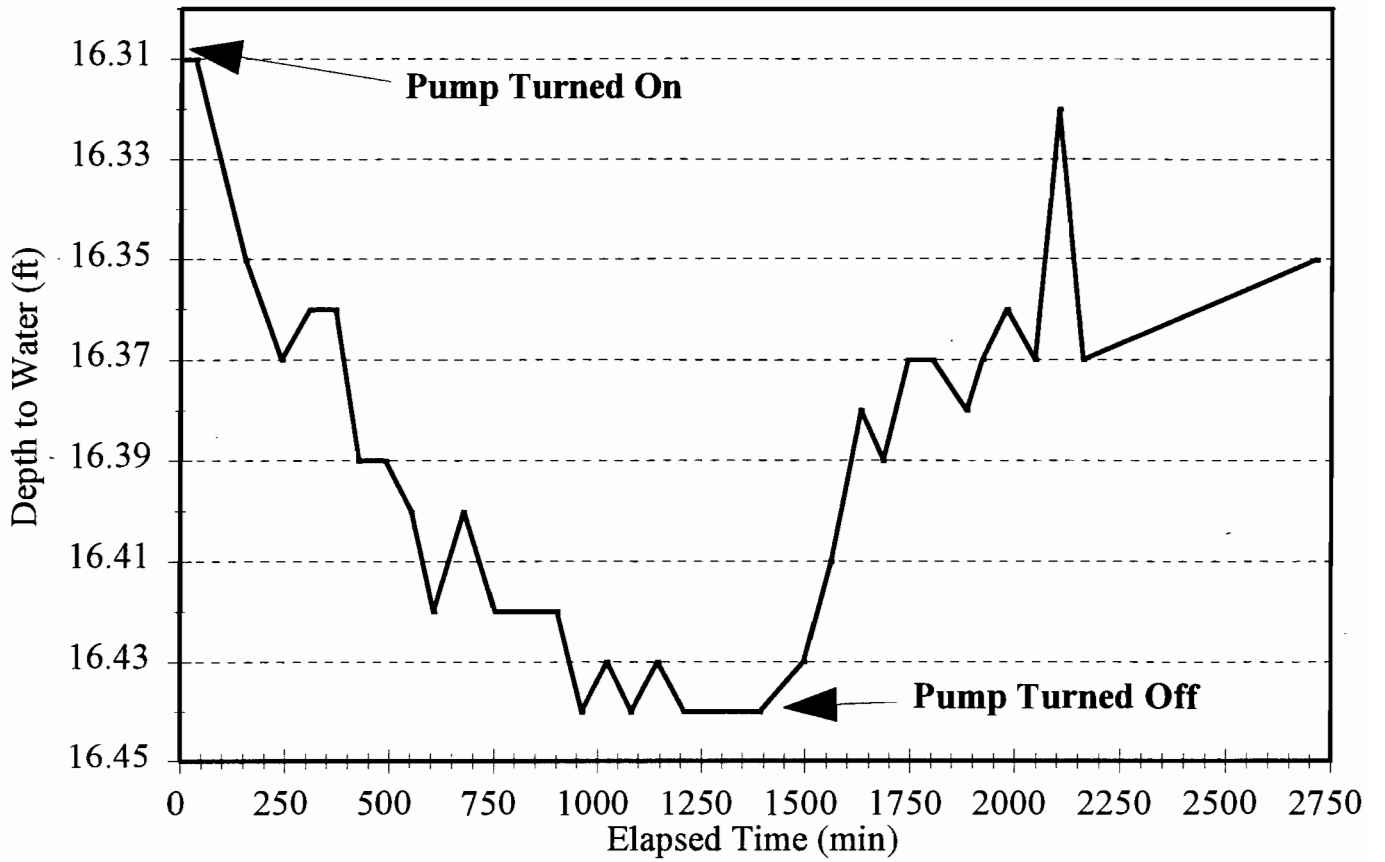
# IW9 HYDROGRAPH



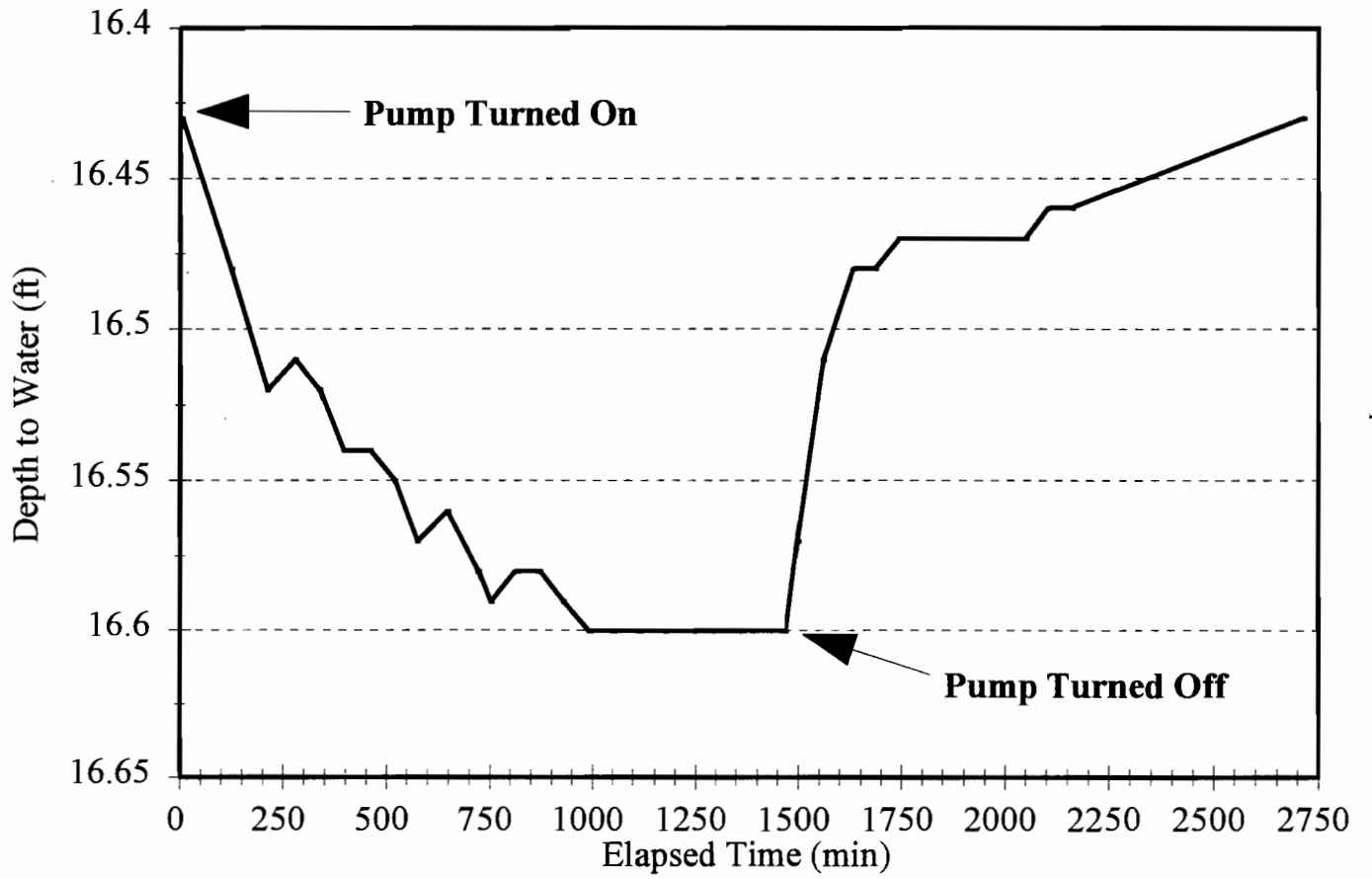
# DW9 HYDROGRAPH



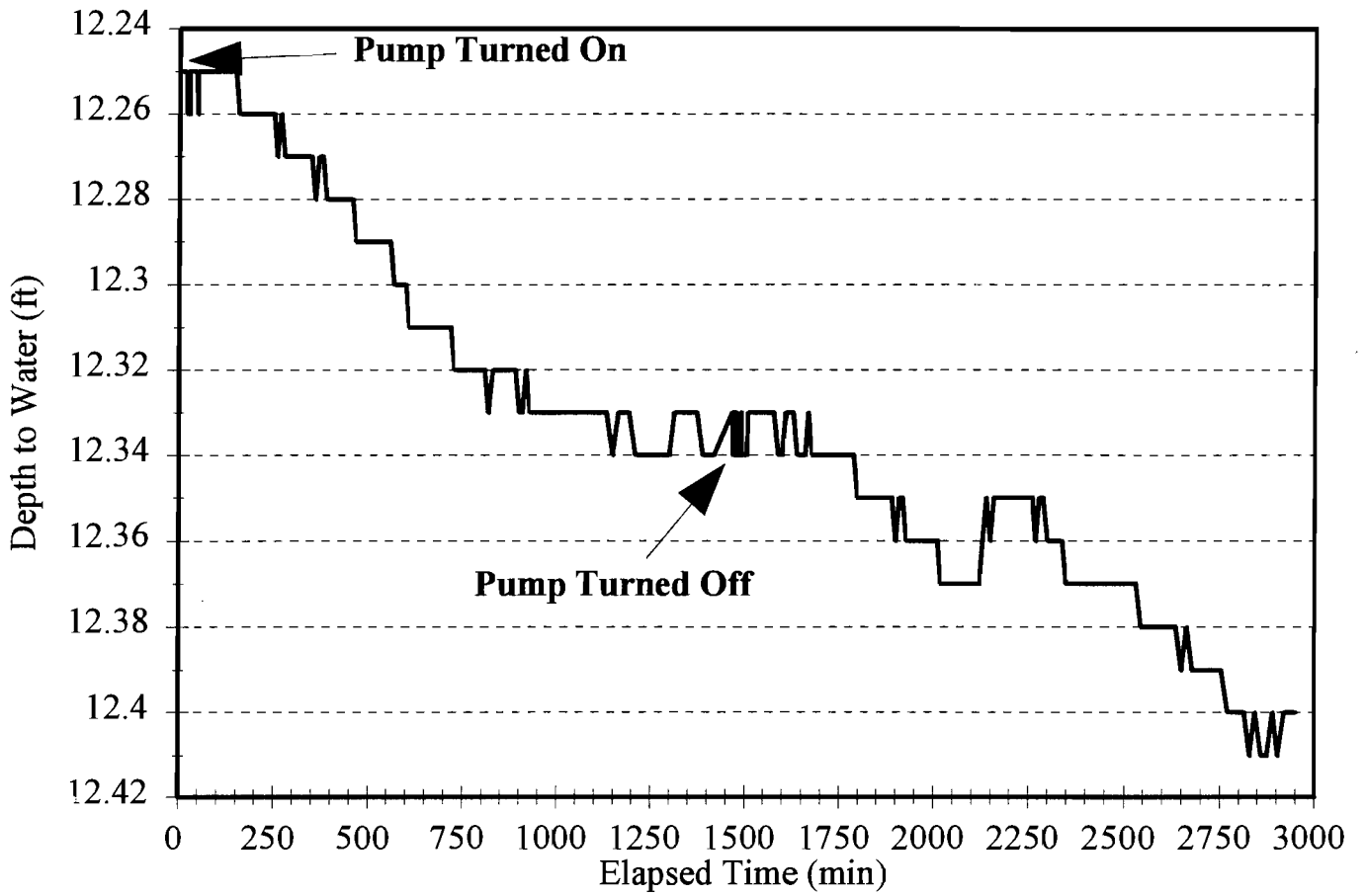
# SW10 HYDROGRAPH



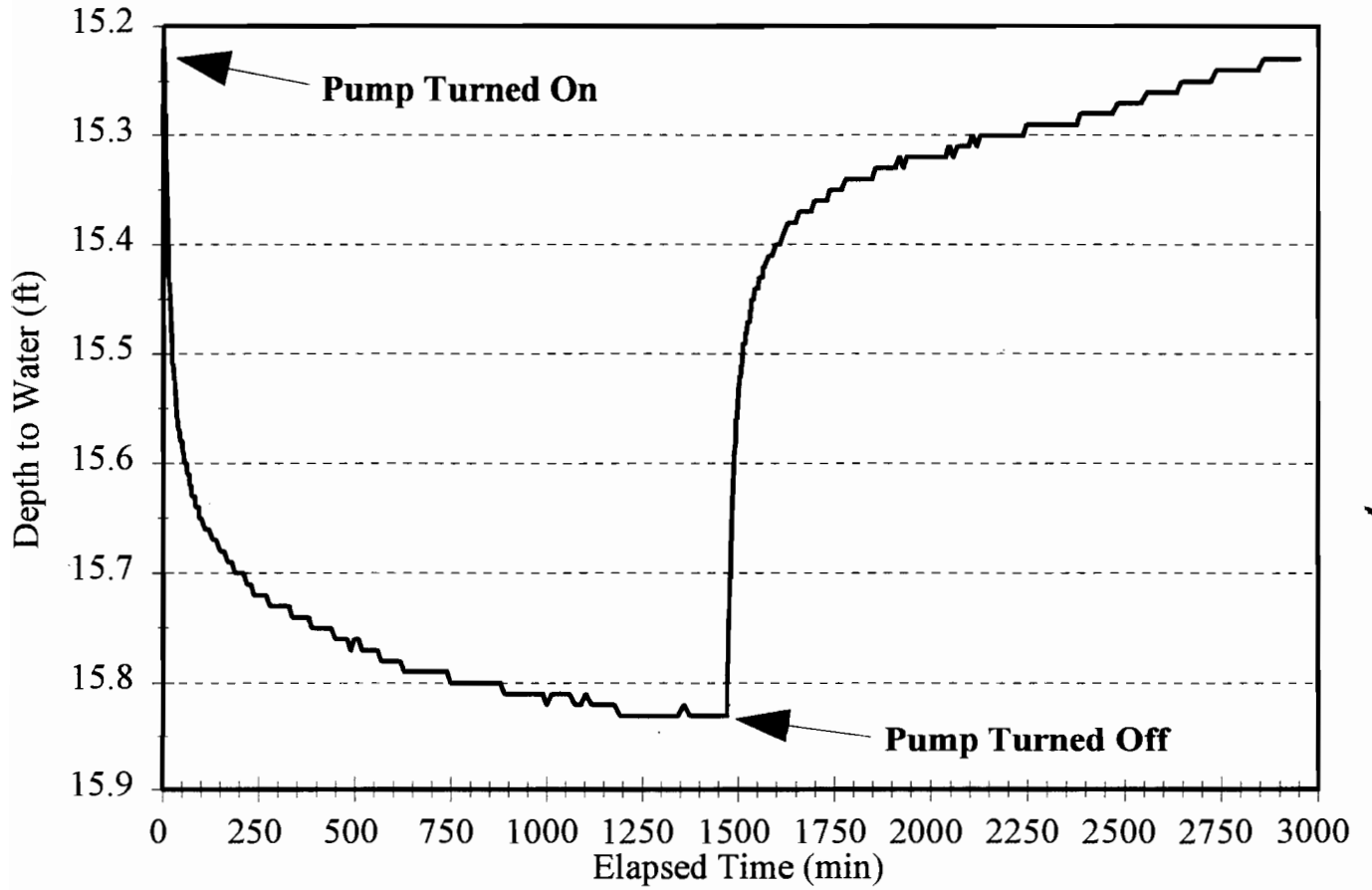
# DW10 HYDROGRAPH



# SW11 HYDROGRAPH



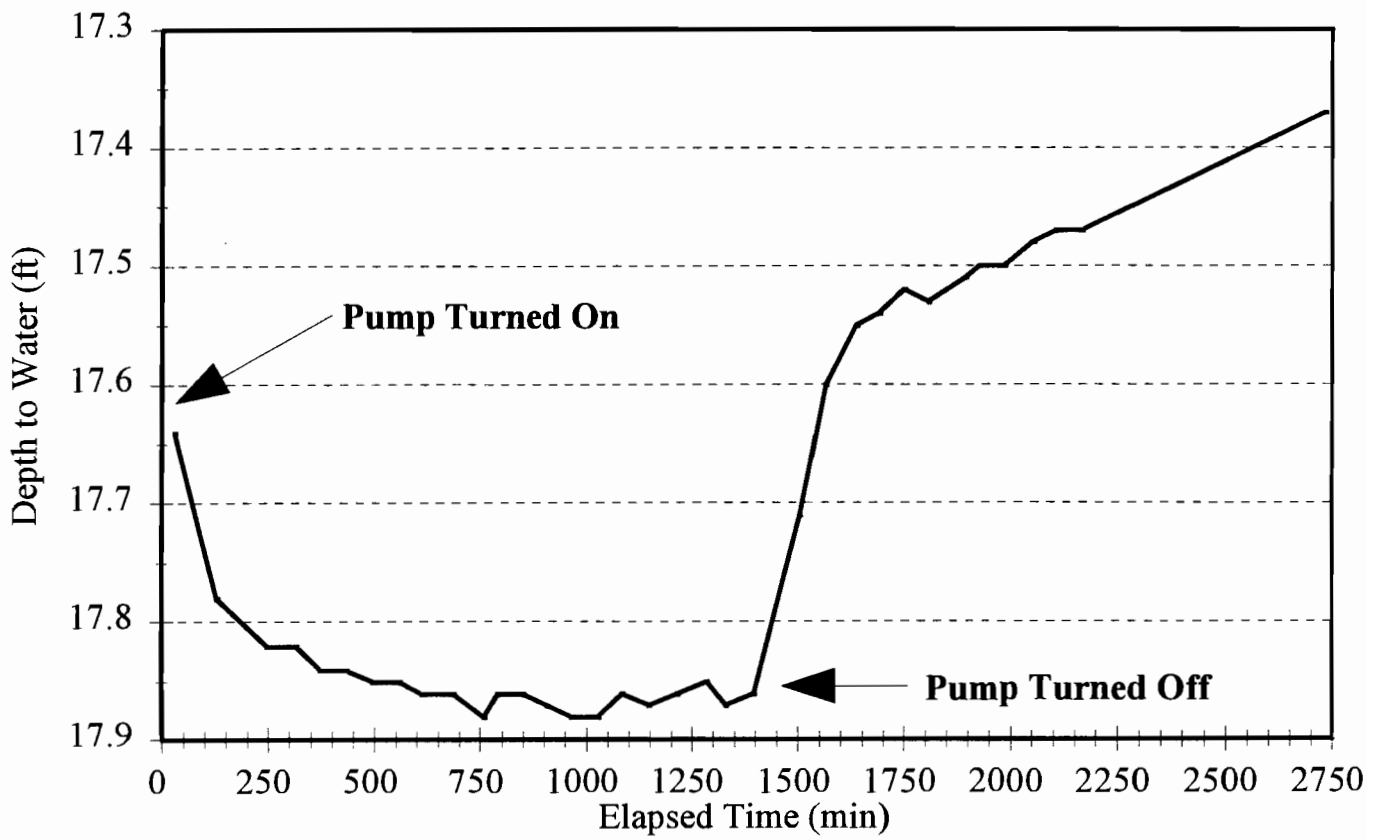
# DW11 HYDROGRAPH



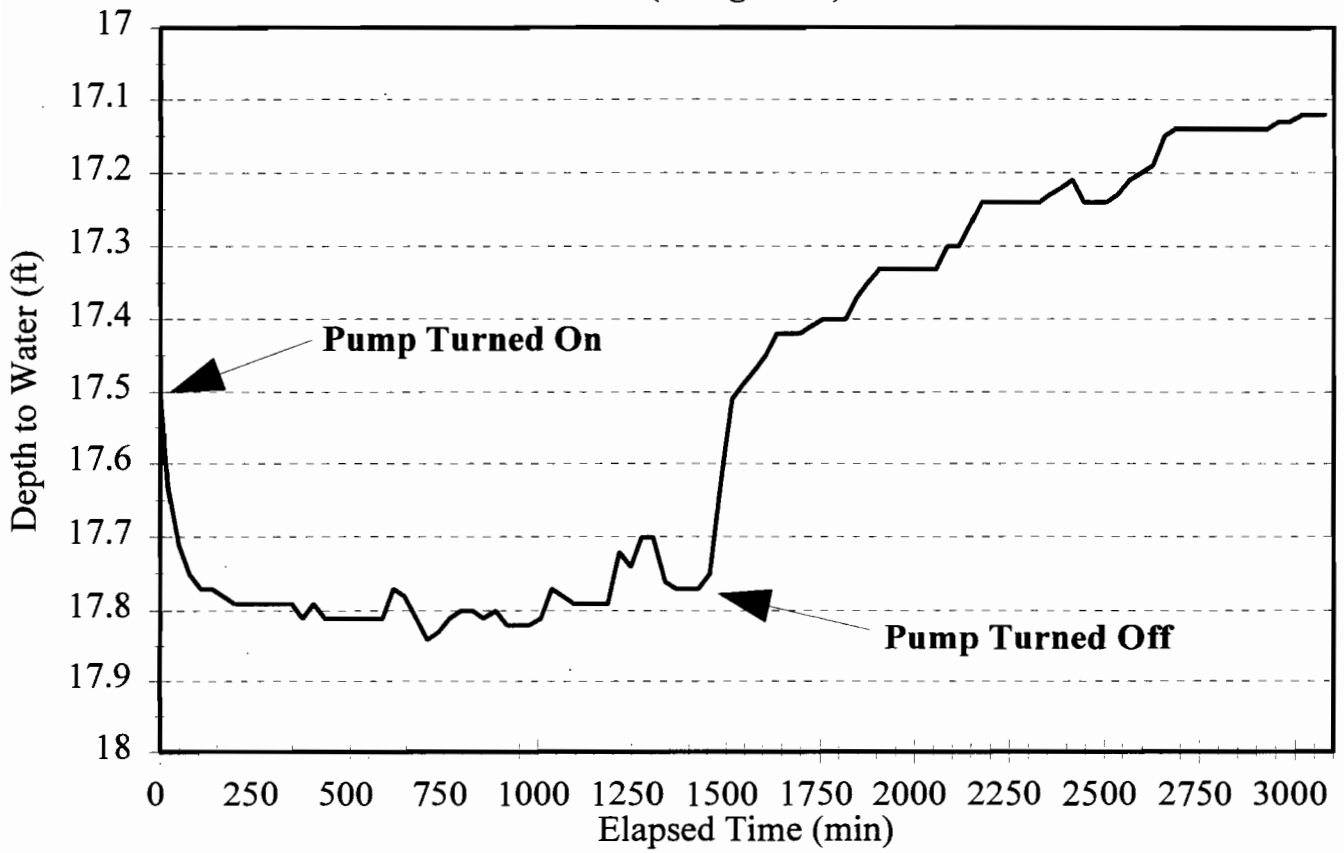


# SW12 HYDROGRAPH

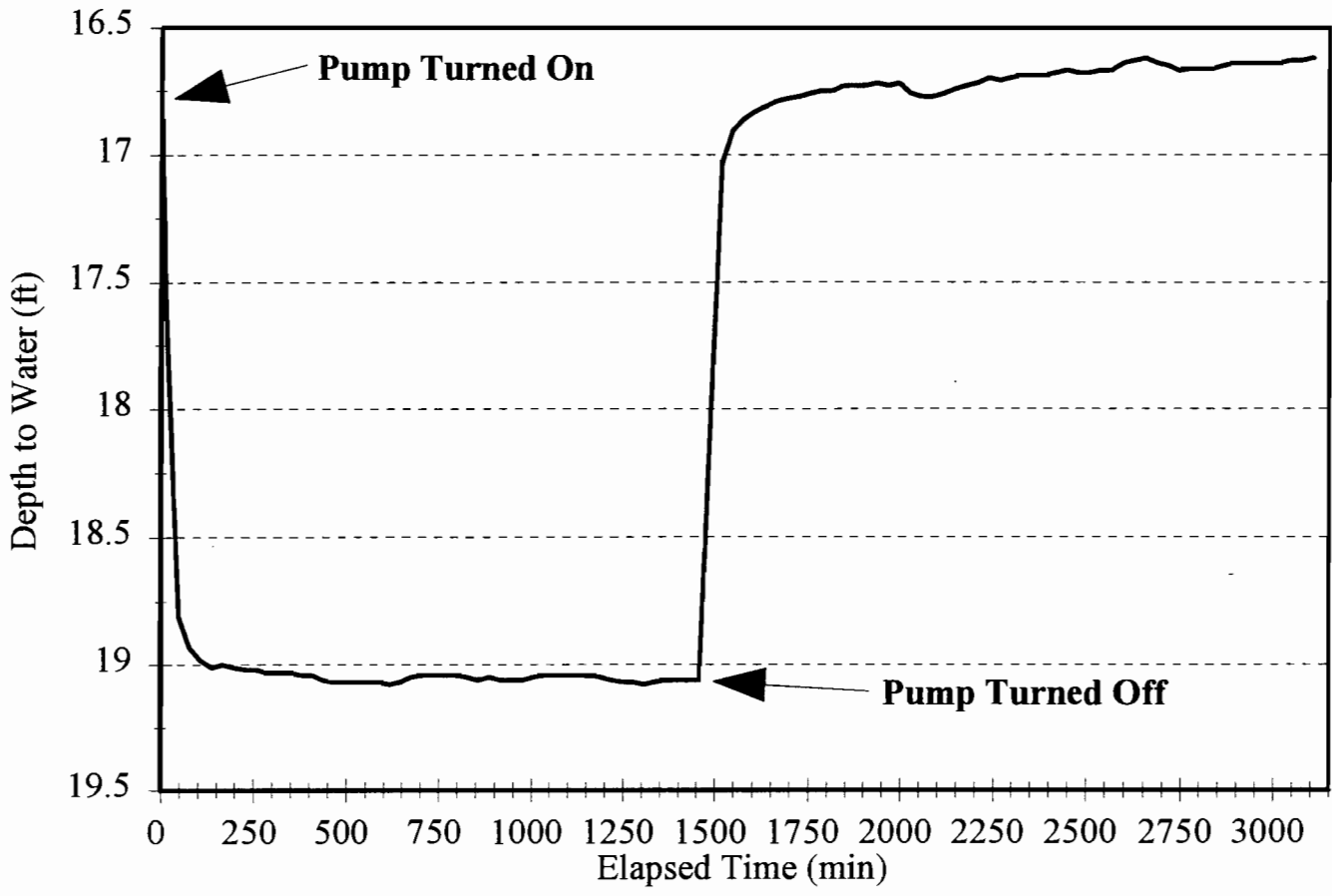
(Hand data)



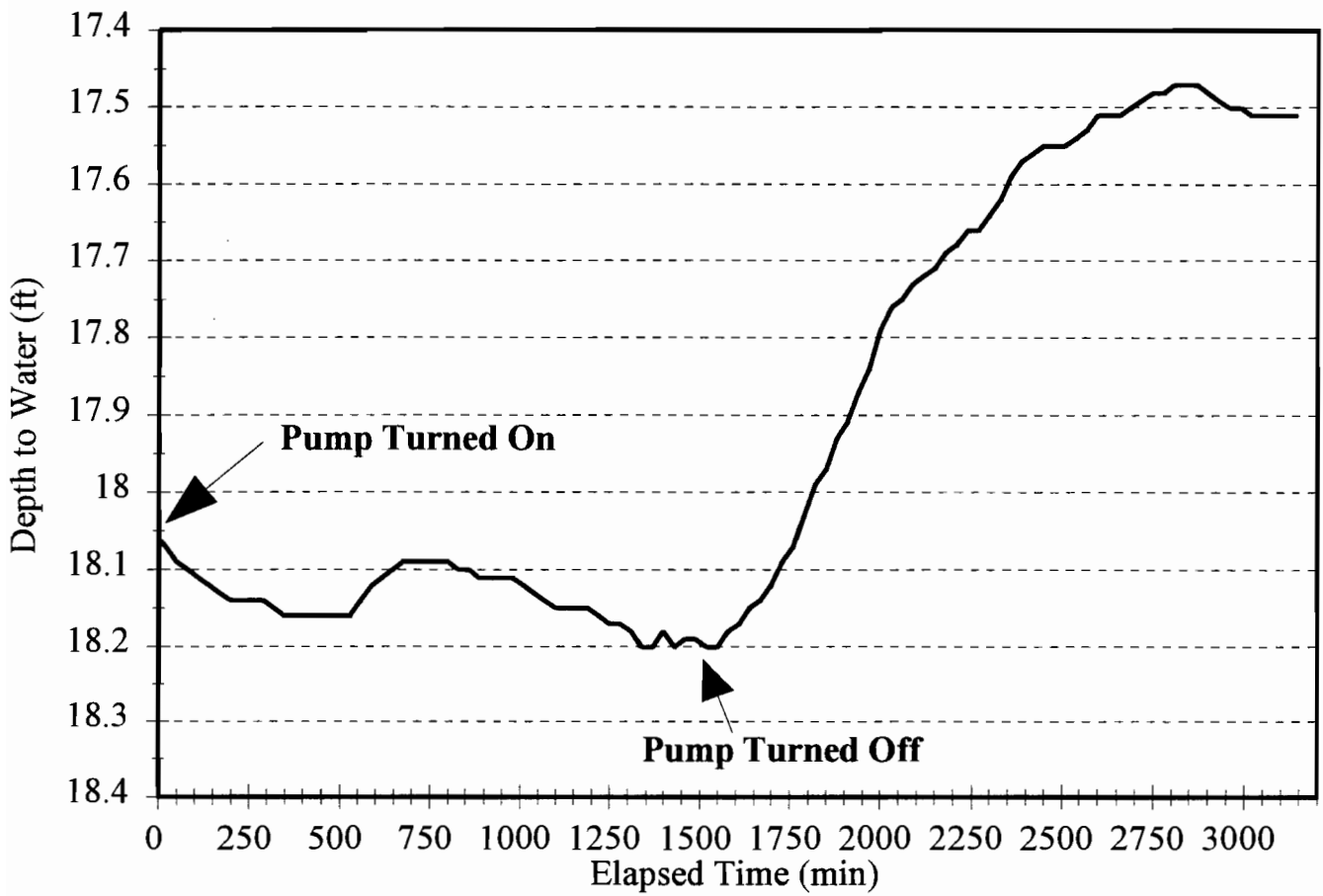
# SW12 HYDROGRAPH (Telog Data)



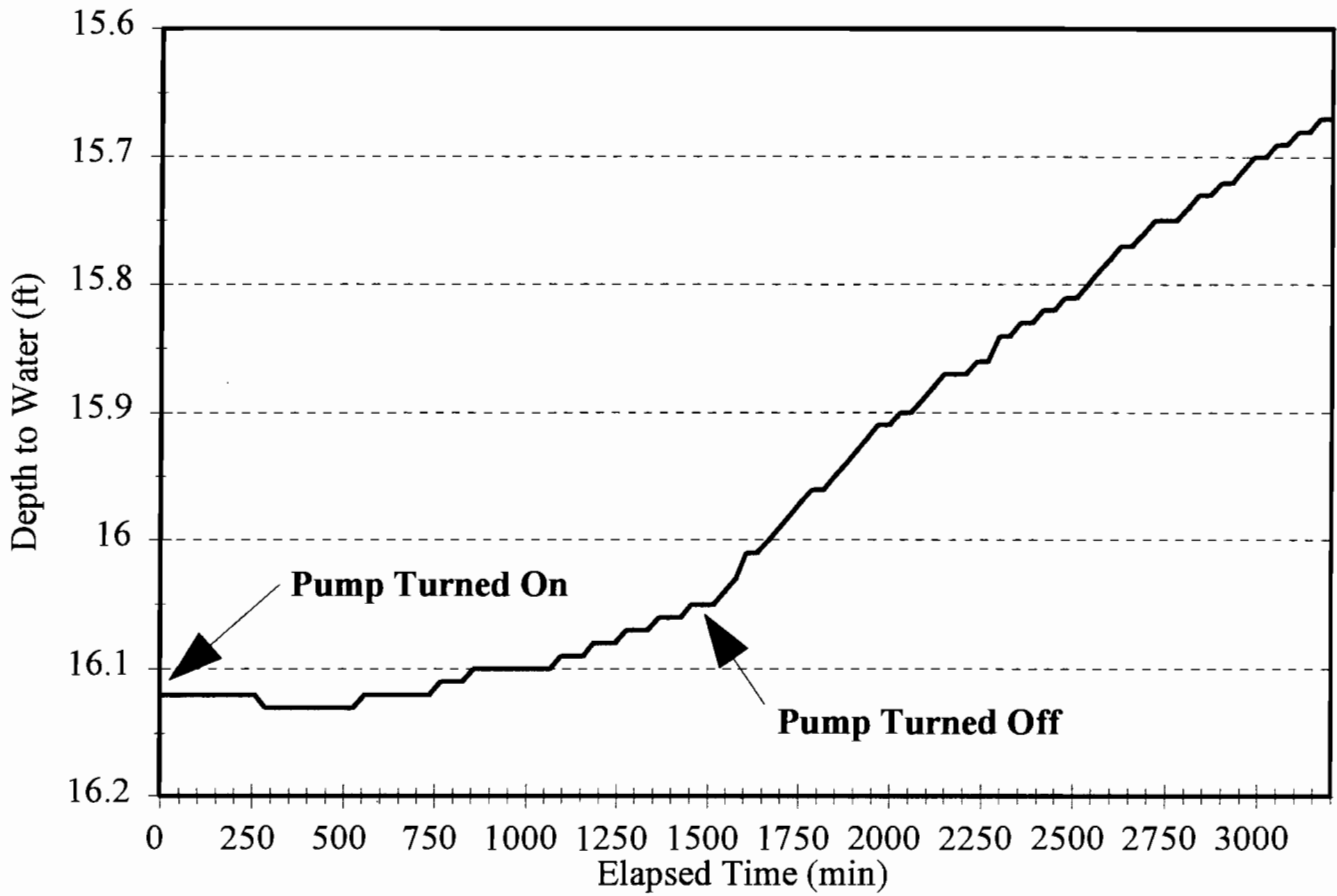
# DW12 HYDROGRAPH



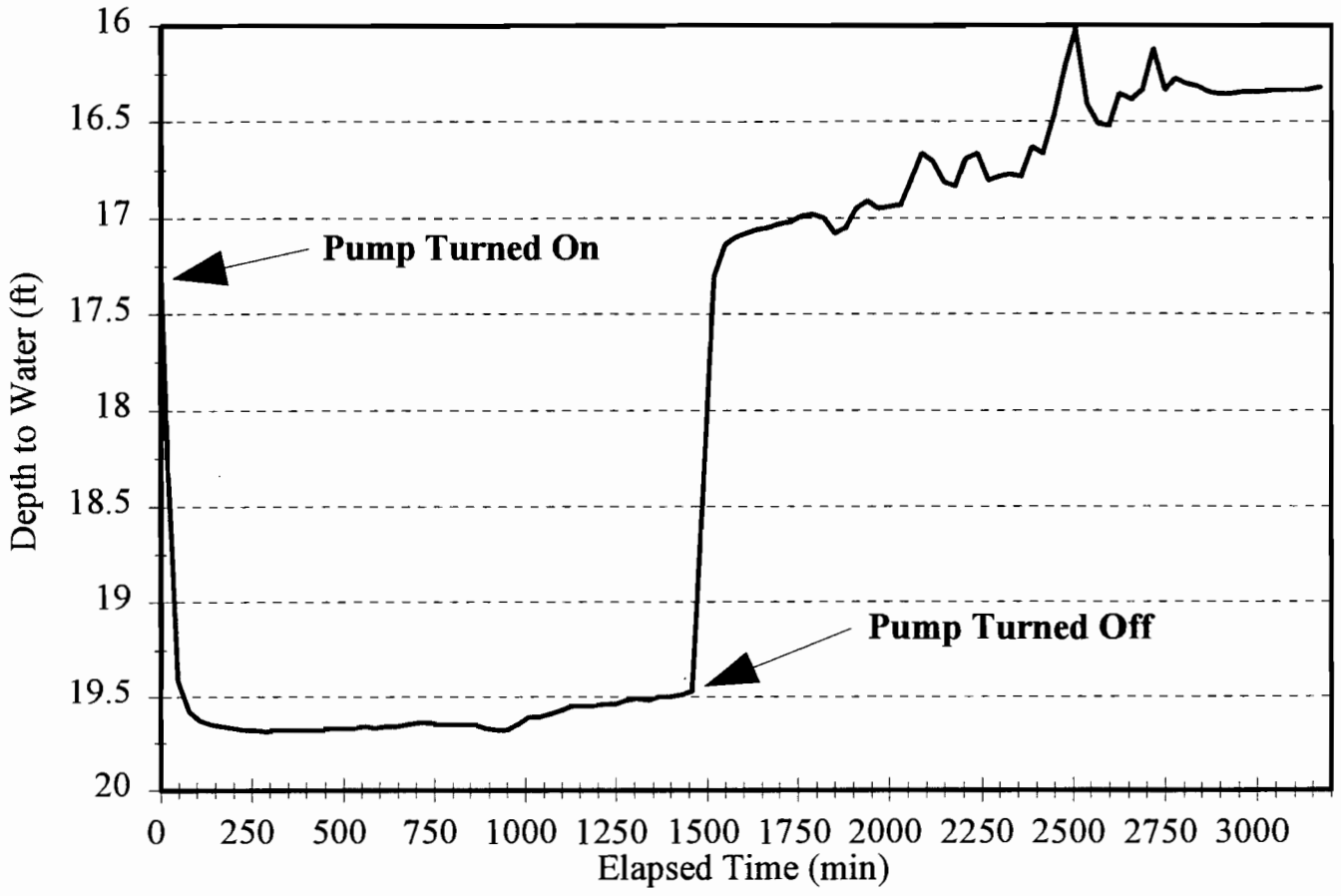
# SW13 HYDROGRAPH



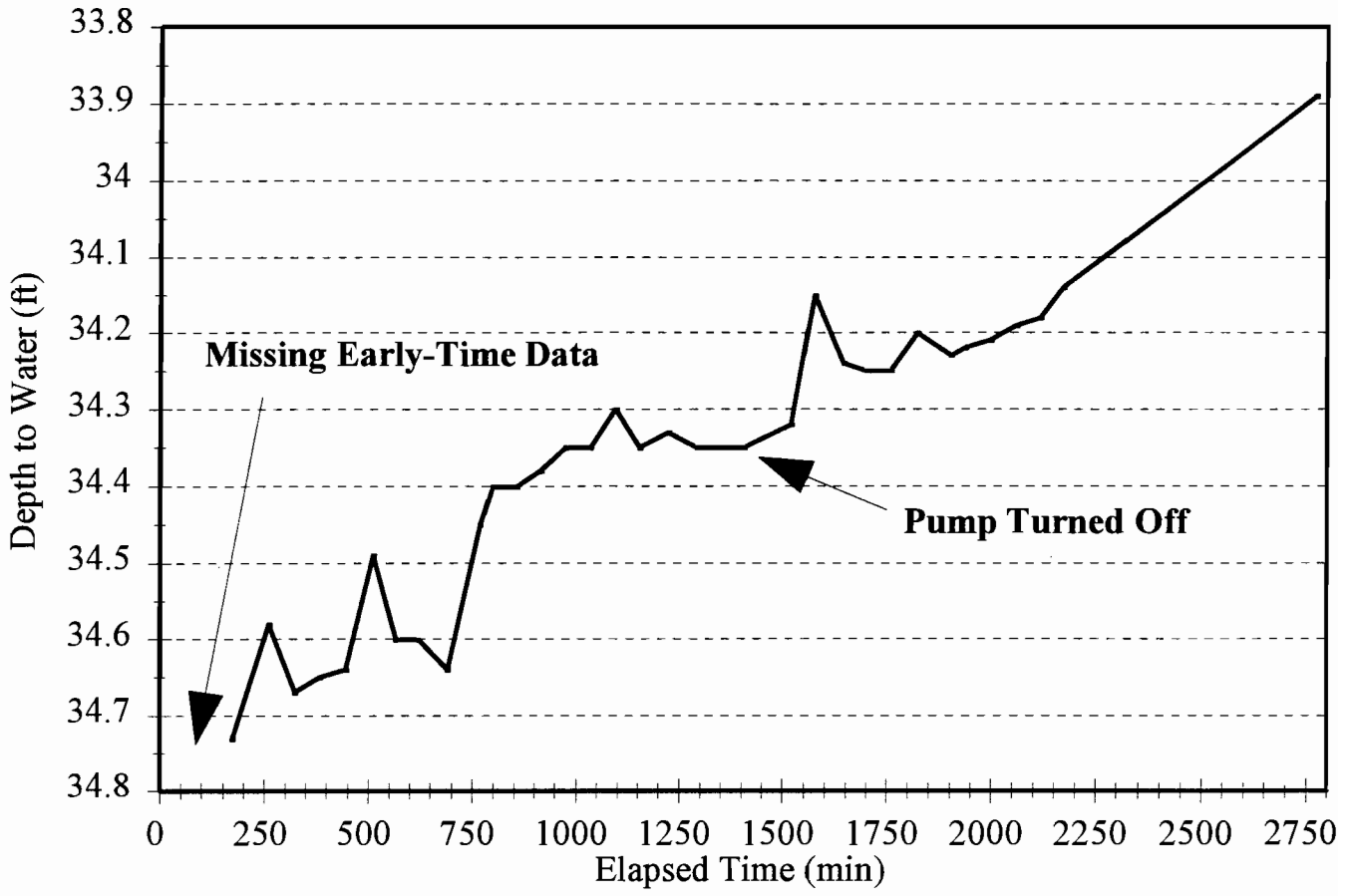
# IW13 HYDROGRAPH



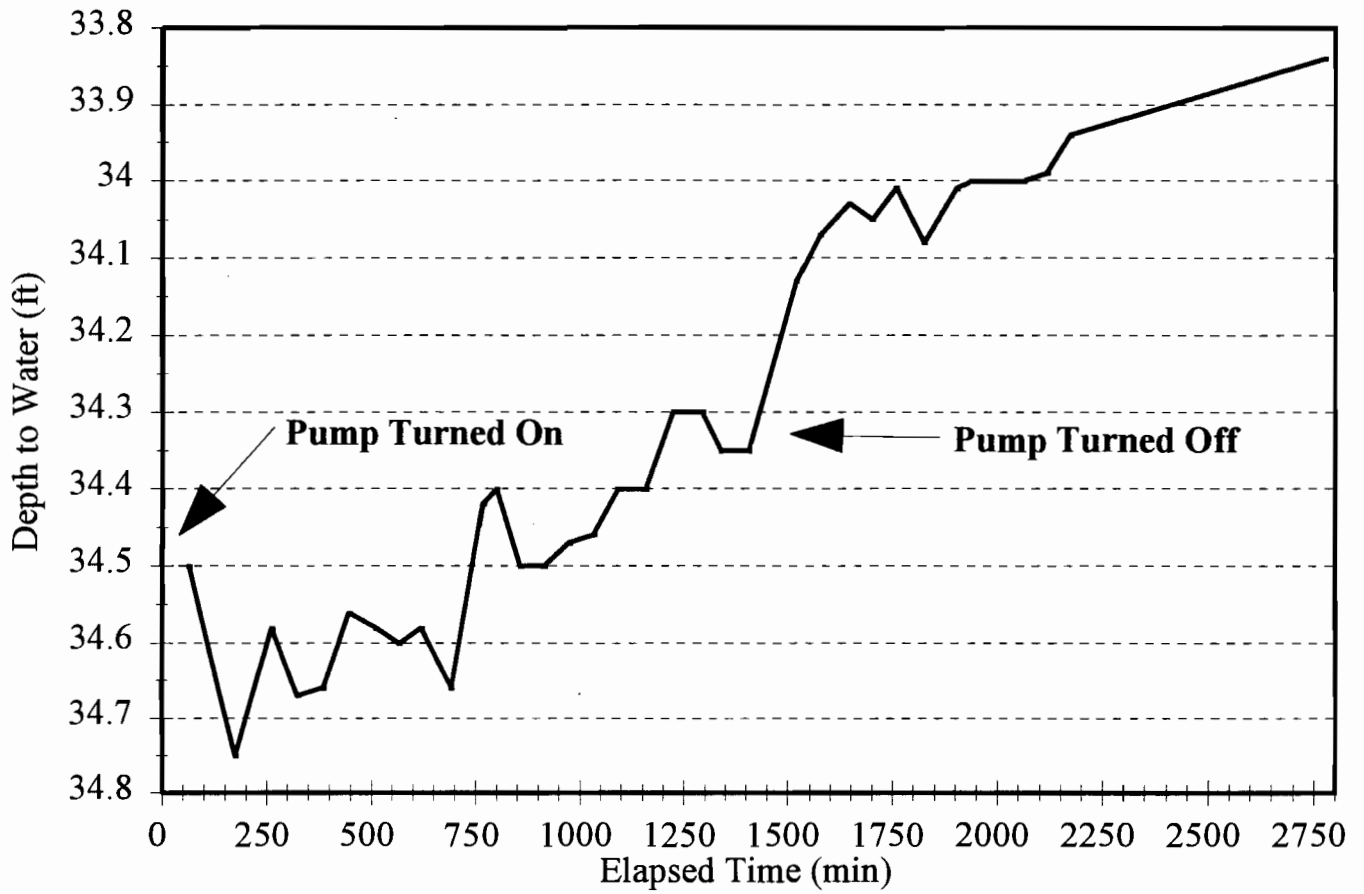
# DW13 HYDROGRAPH



# MW2S (NYSDEC)

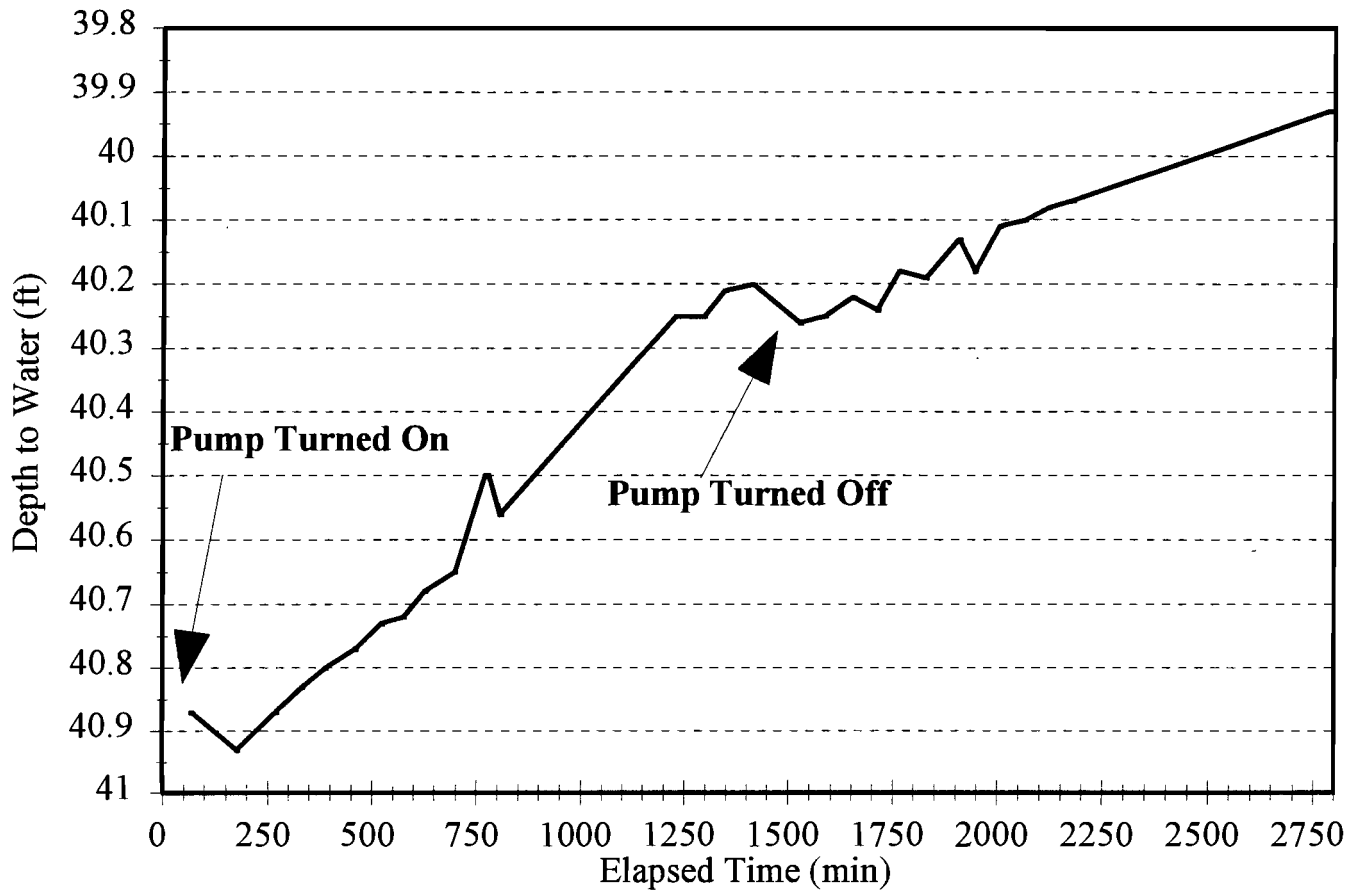


# MW2D (NYSDEC)

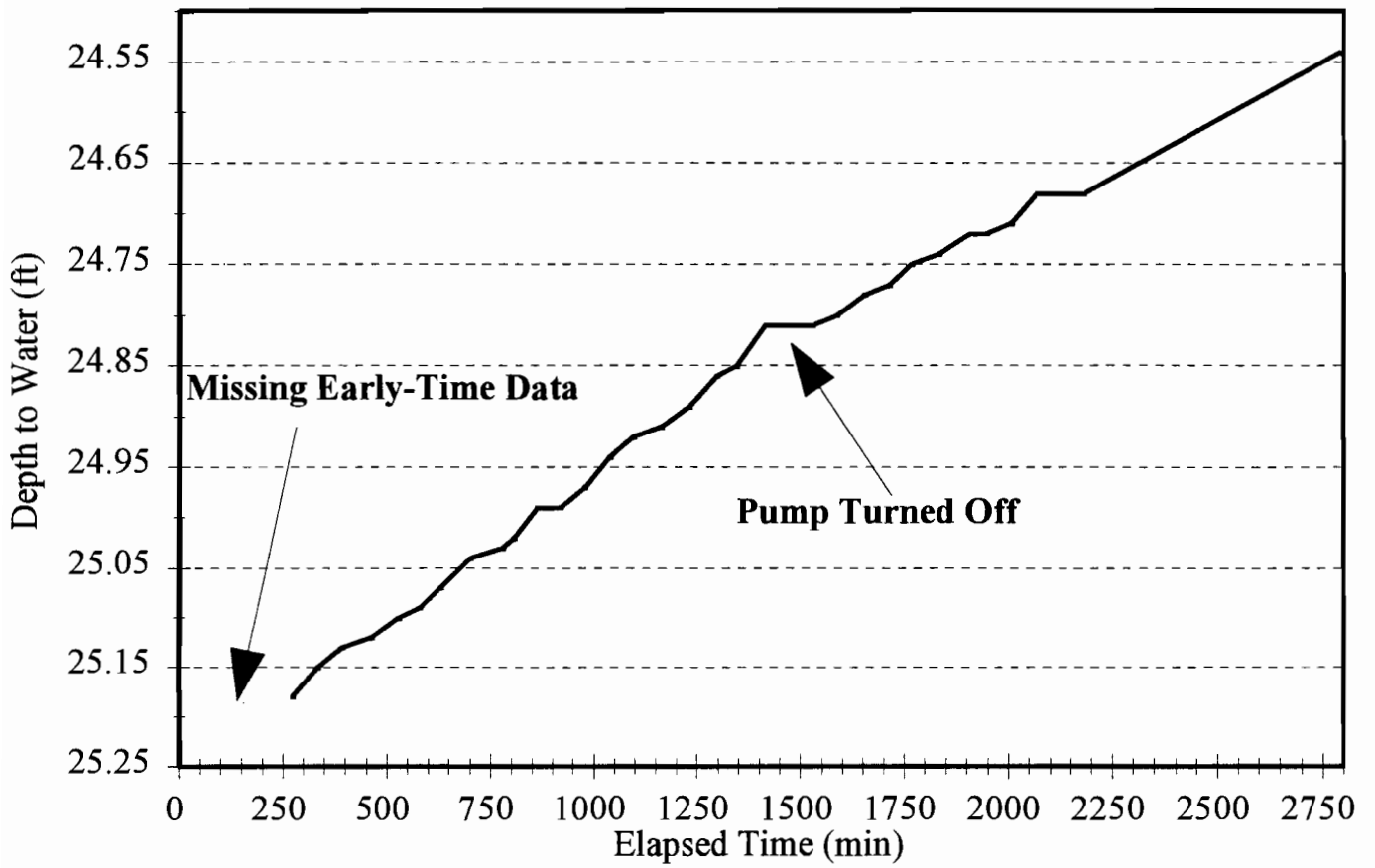




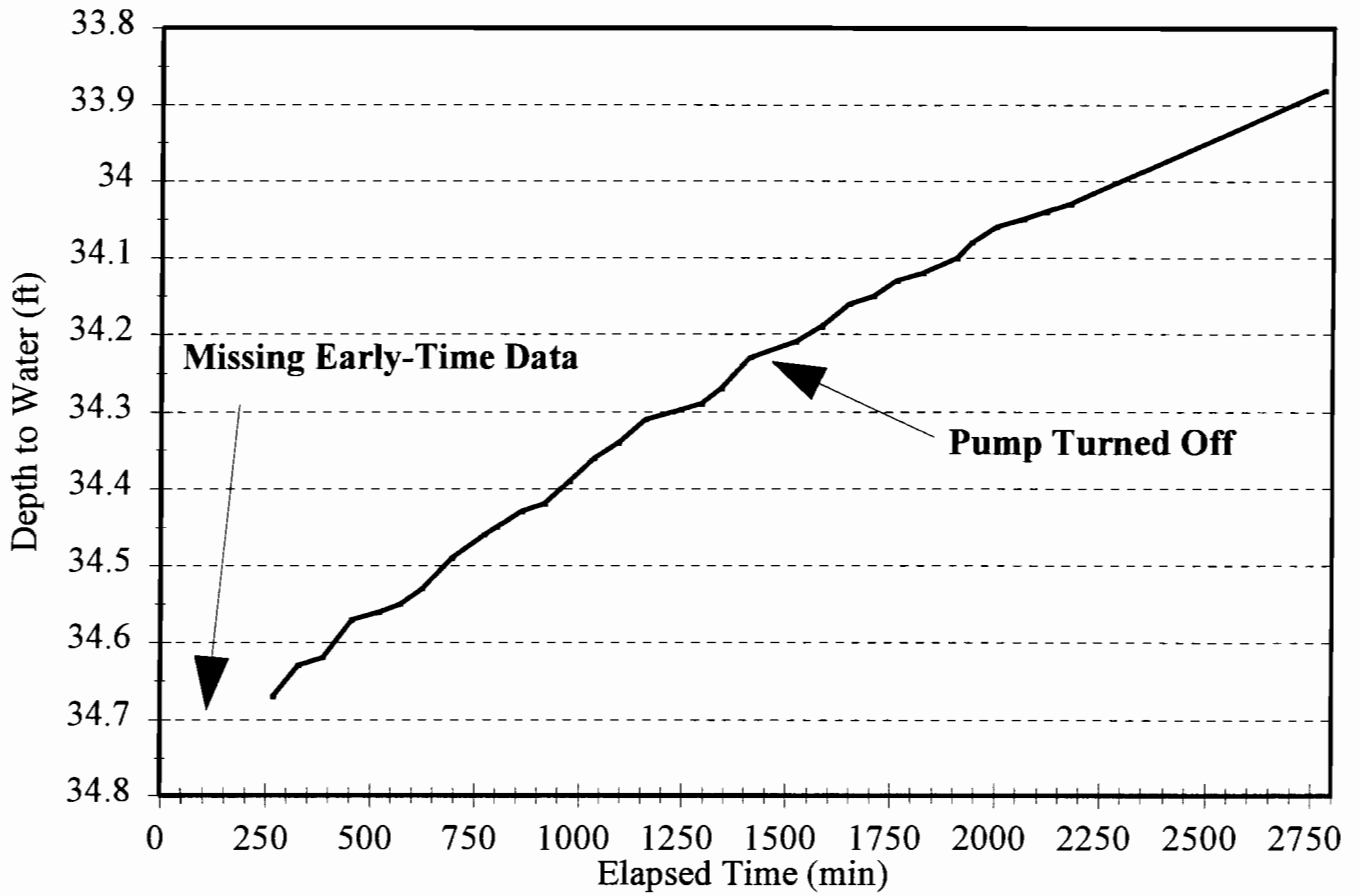
# MW3D HYDROGRAPH



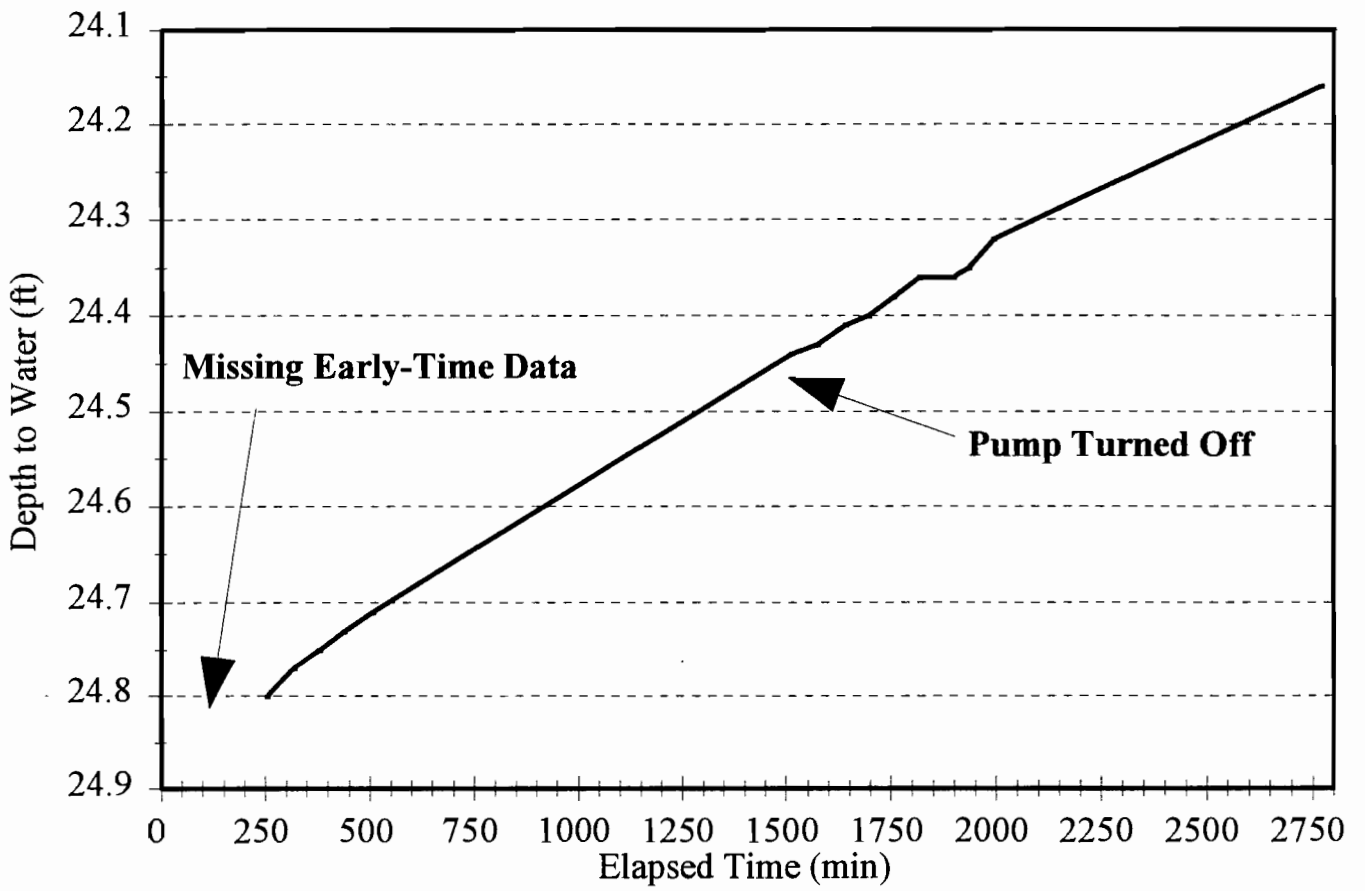
# MW7S HYDROGRAPH



# MW8I HYDROGRAPH



# MW9S HYDROGRAPH

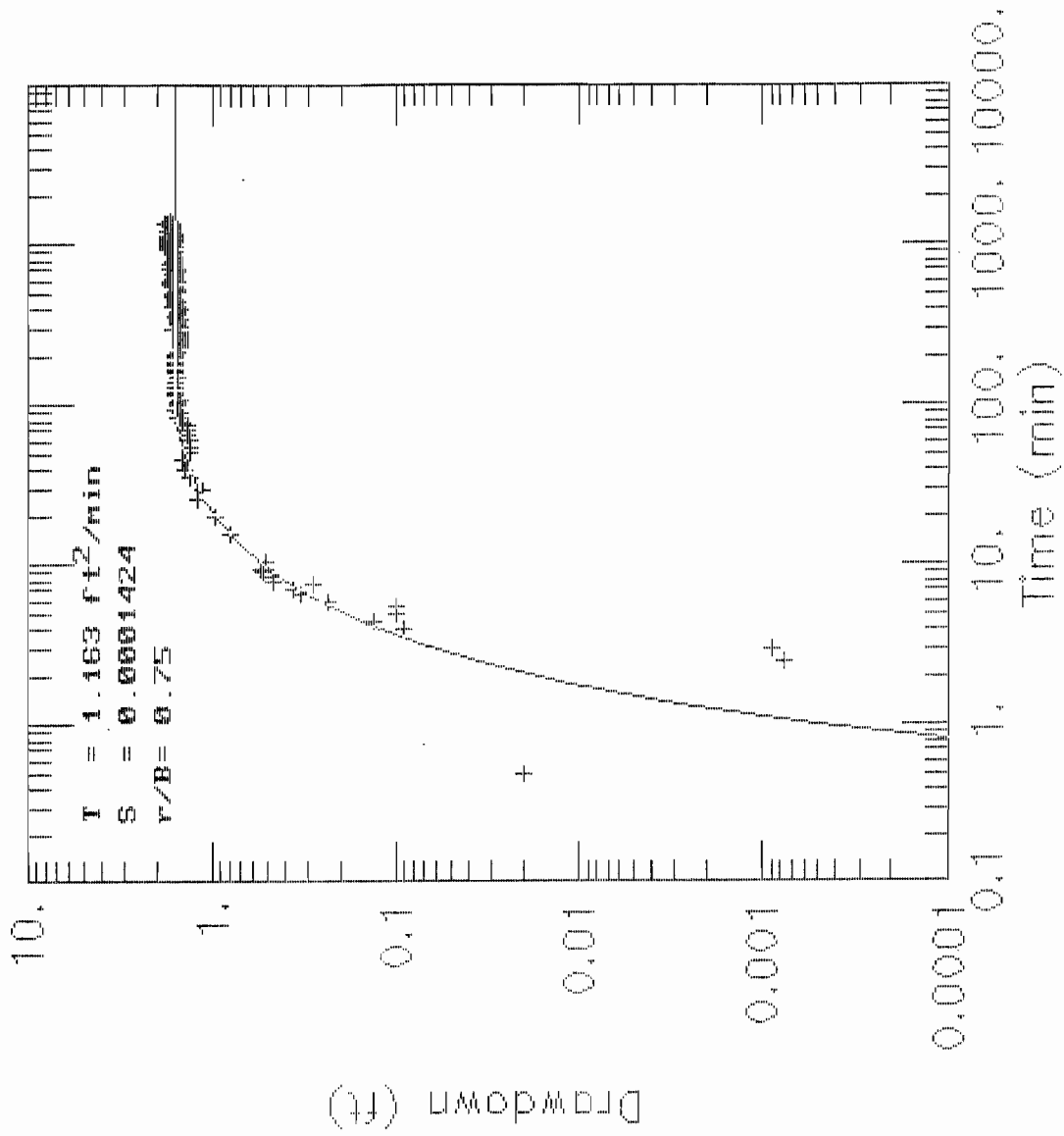


# A P P E N D I X E

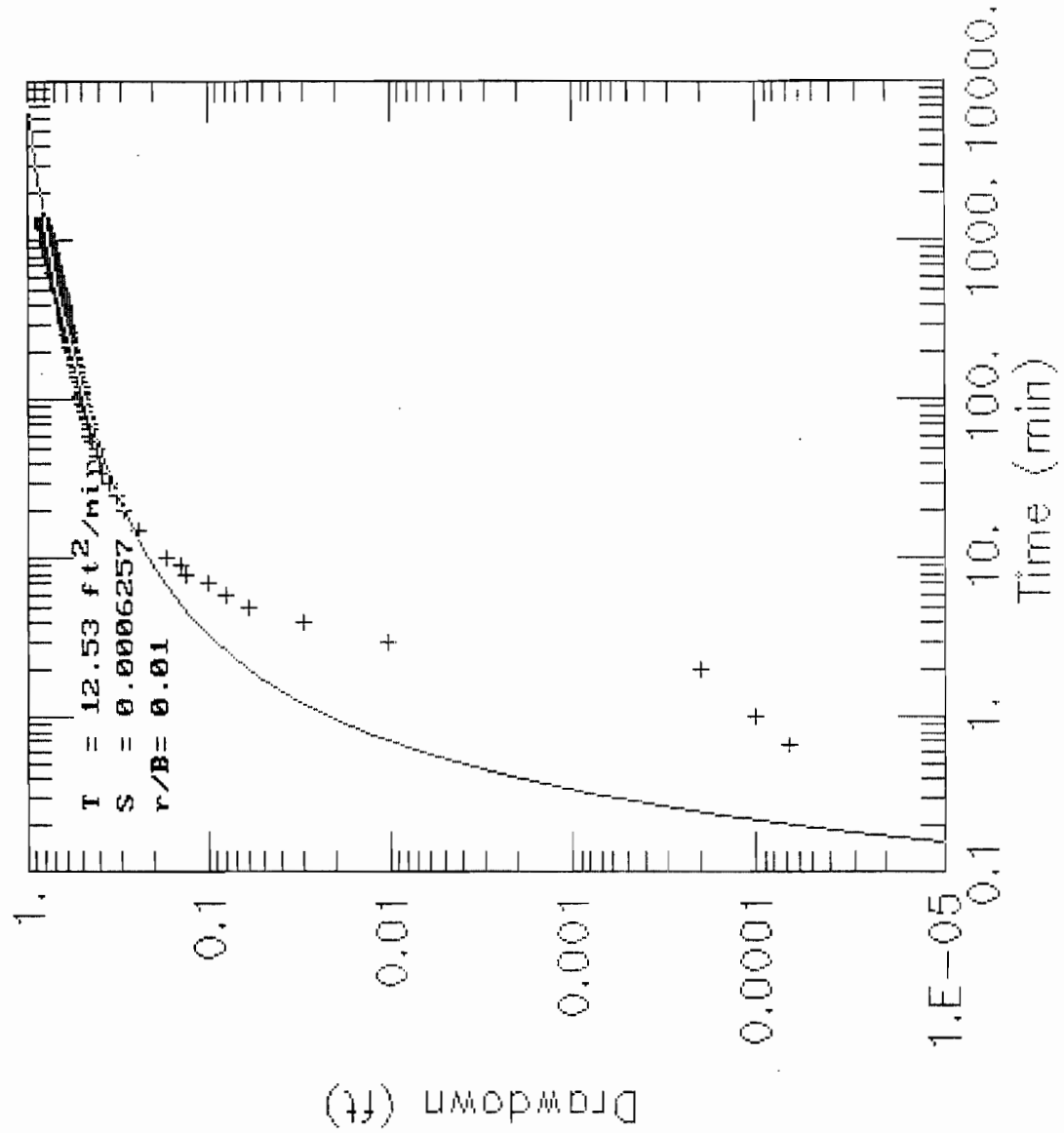
## TIME-DRAWDOWN CURVES

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# DW3 CORRECTED DRAWDOWN DATA

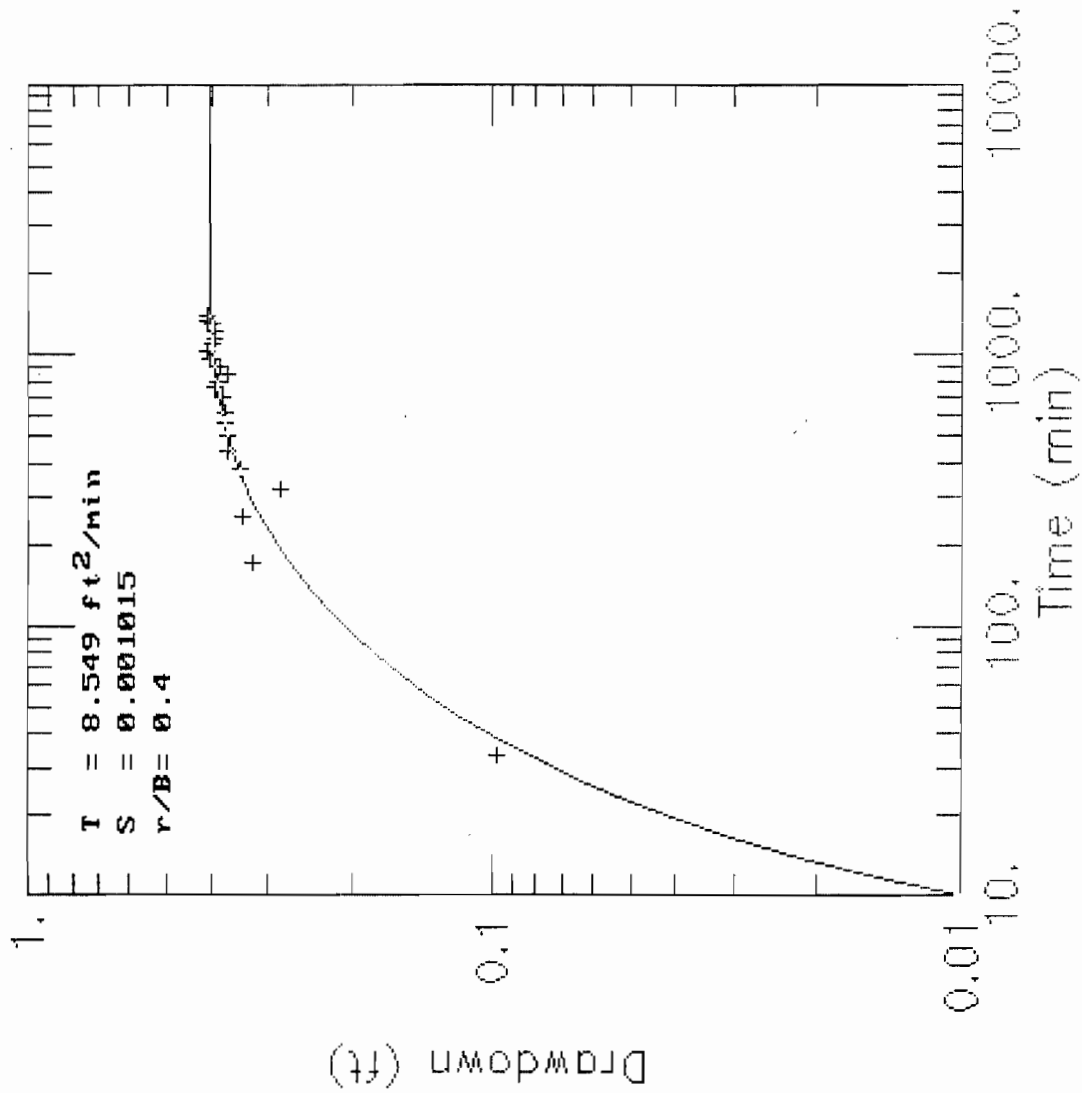


# DW4 CORRECTED DRAWDOWN DATA

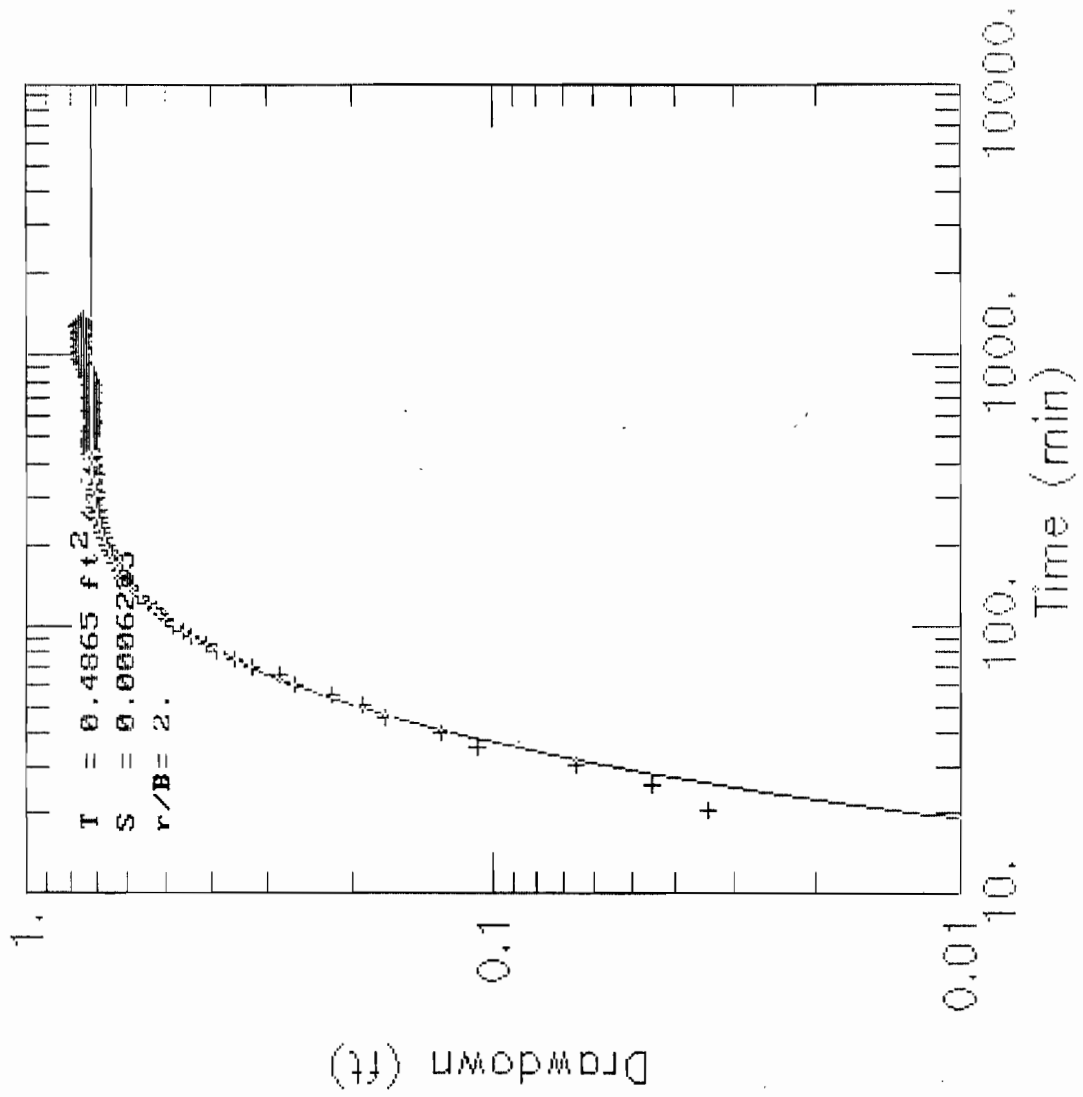




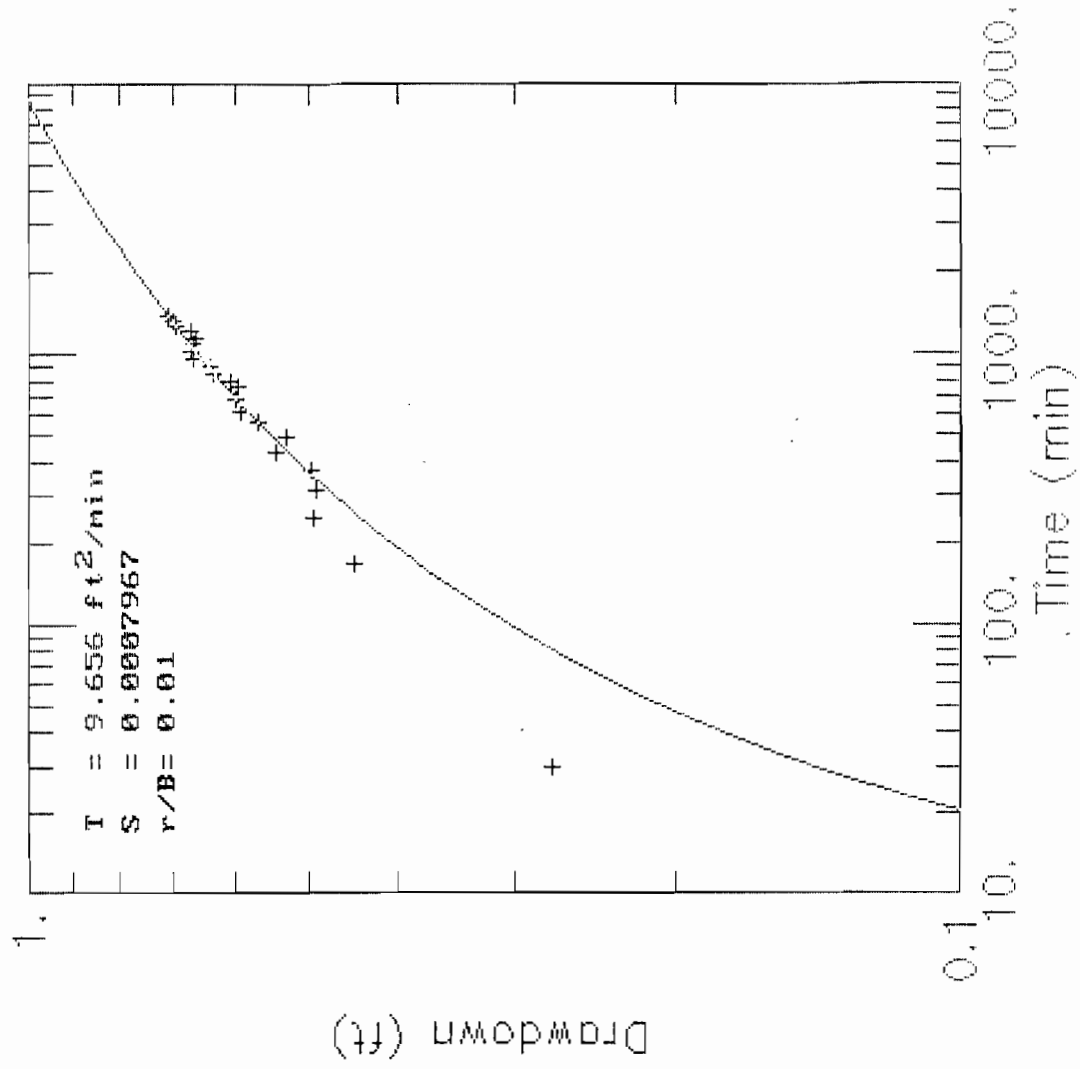
# DW5 CORRECTED DRAWDOWN DATA



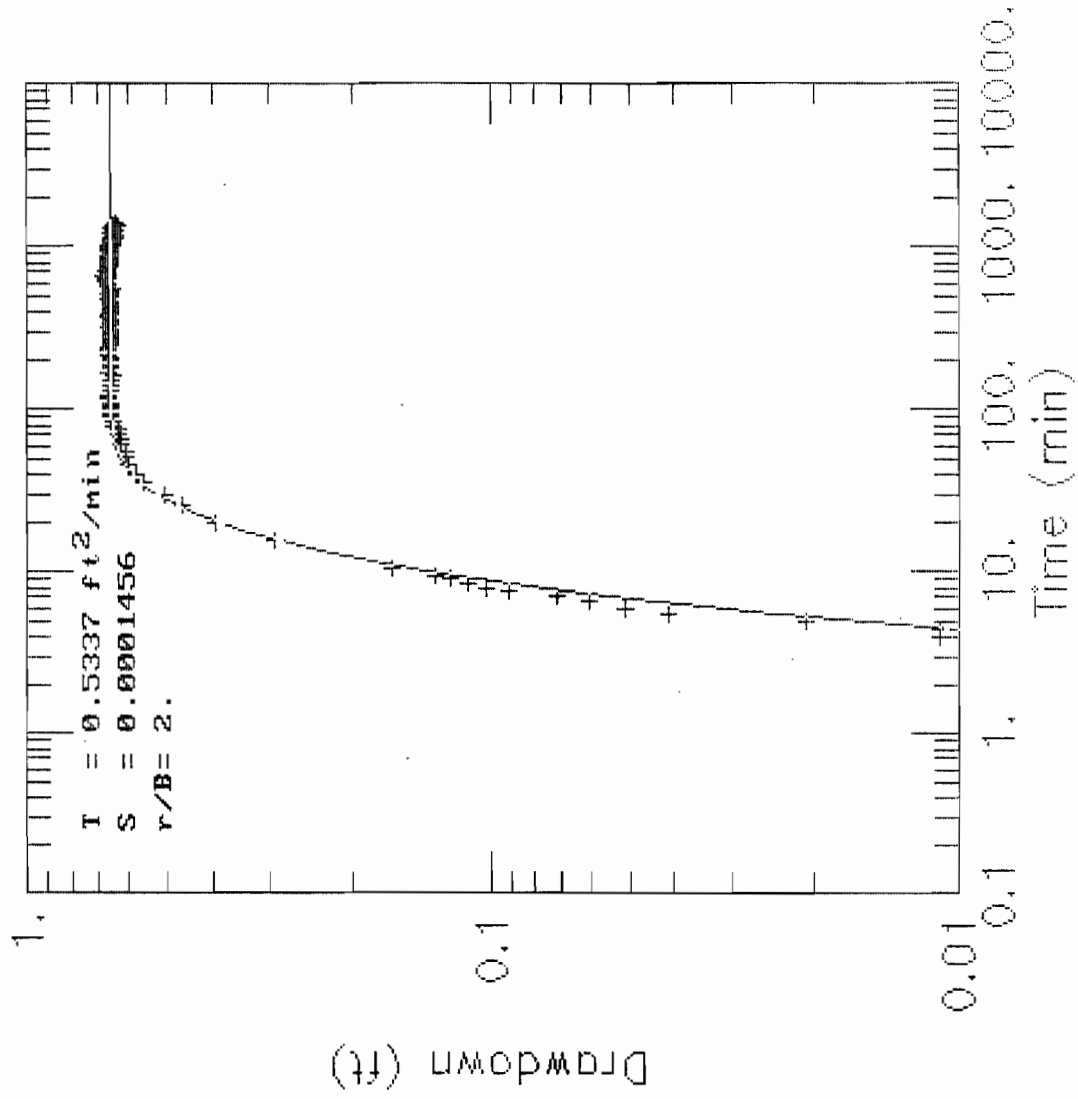
DW6 CORRECTED DRAWDOWN DATA



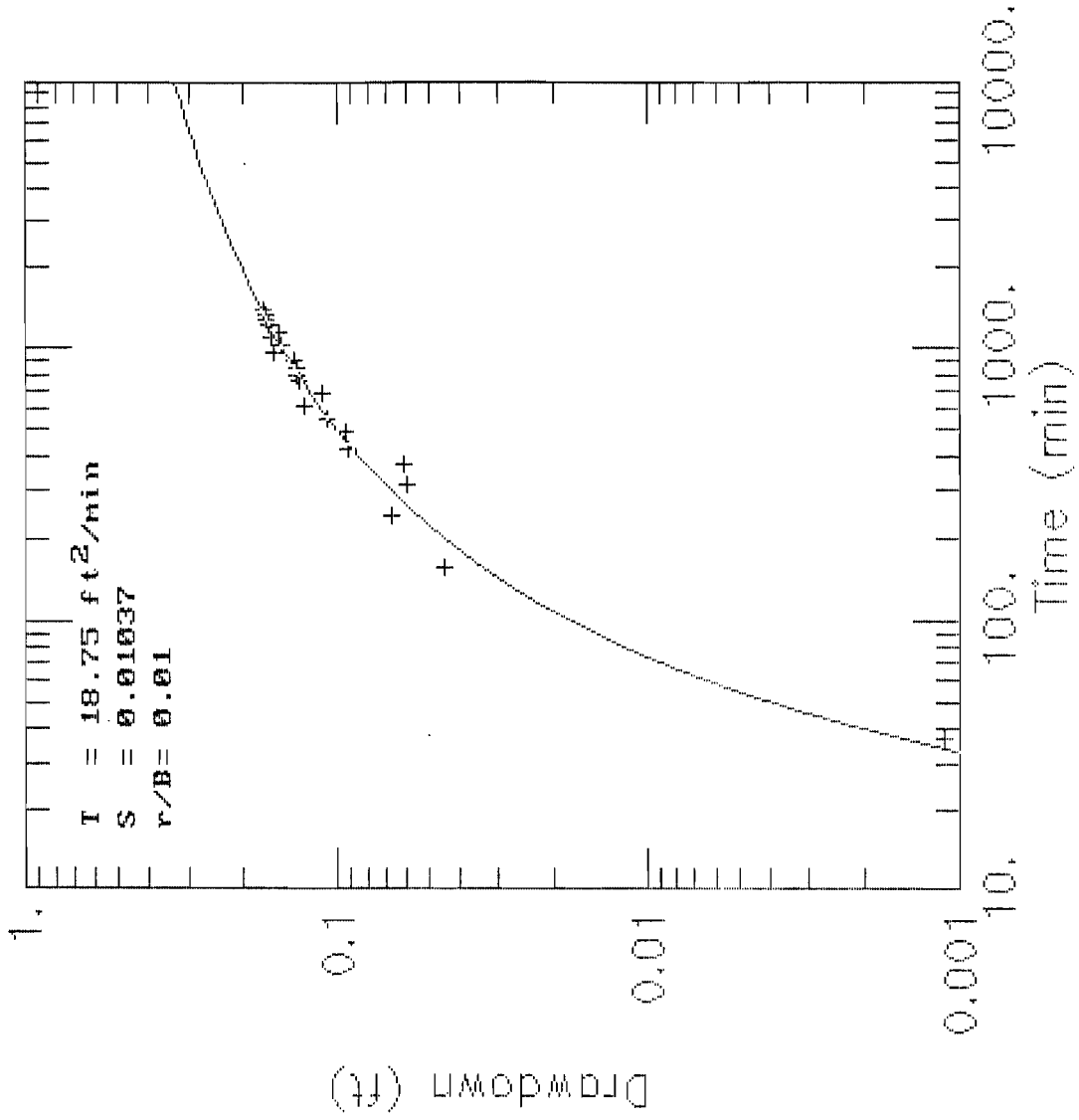
# DW8 CORRECTED DRAWDOWN DATA



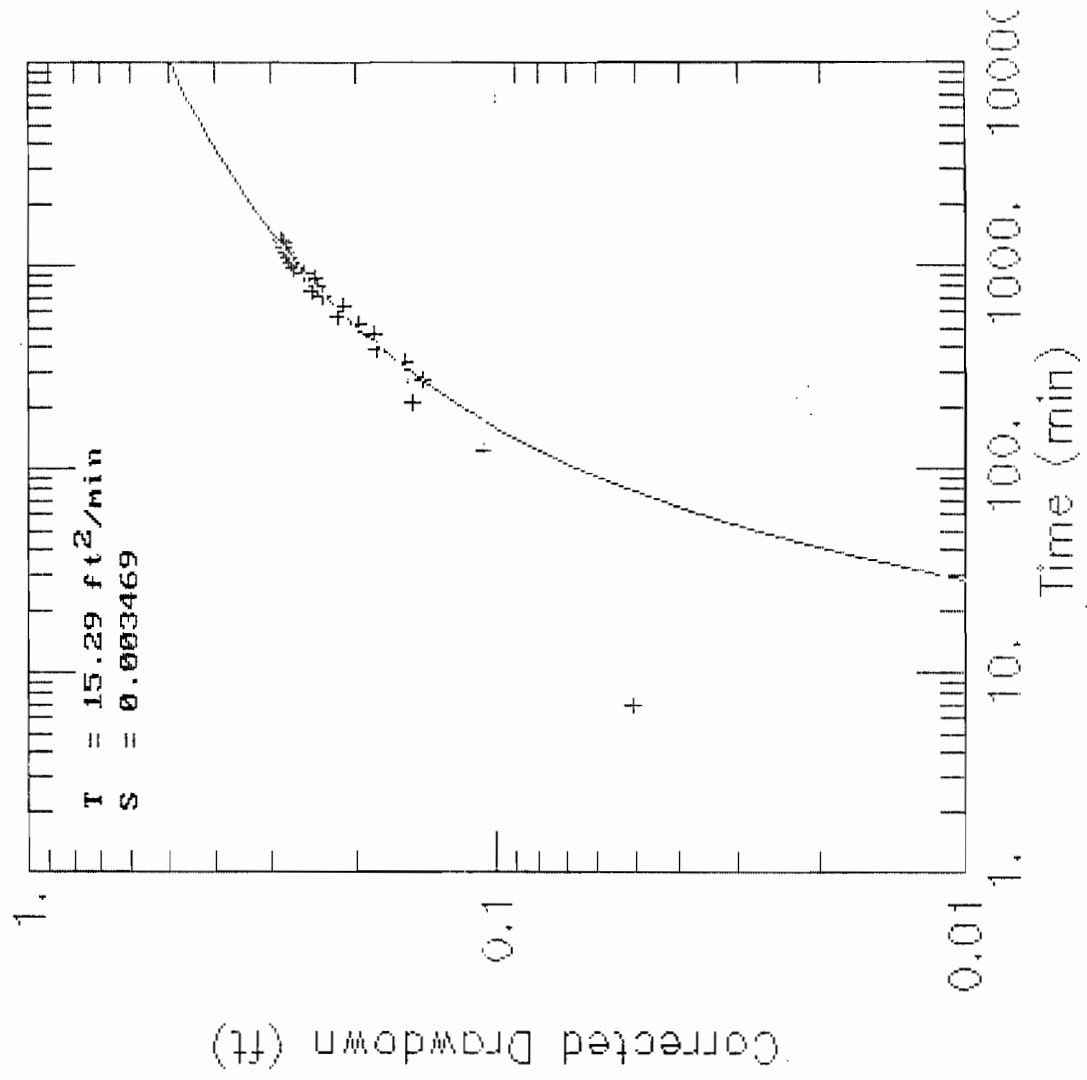
# DW9 CORRECTED DRAWDOWN DATA



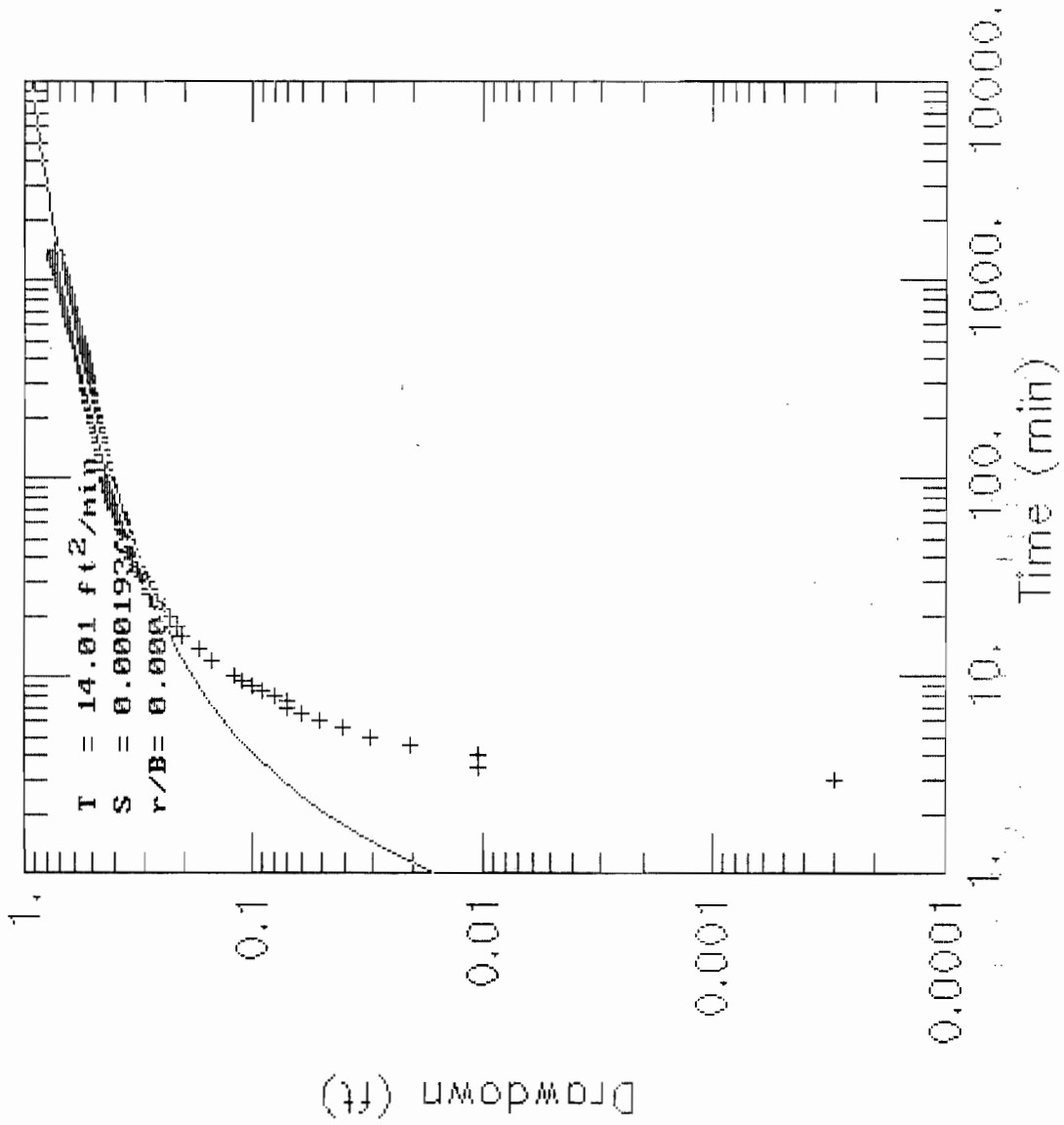
# SW10 CORRECTED DRAWDOWN DATA



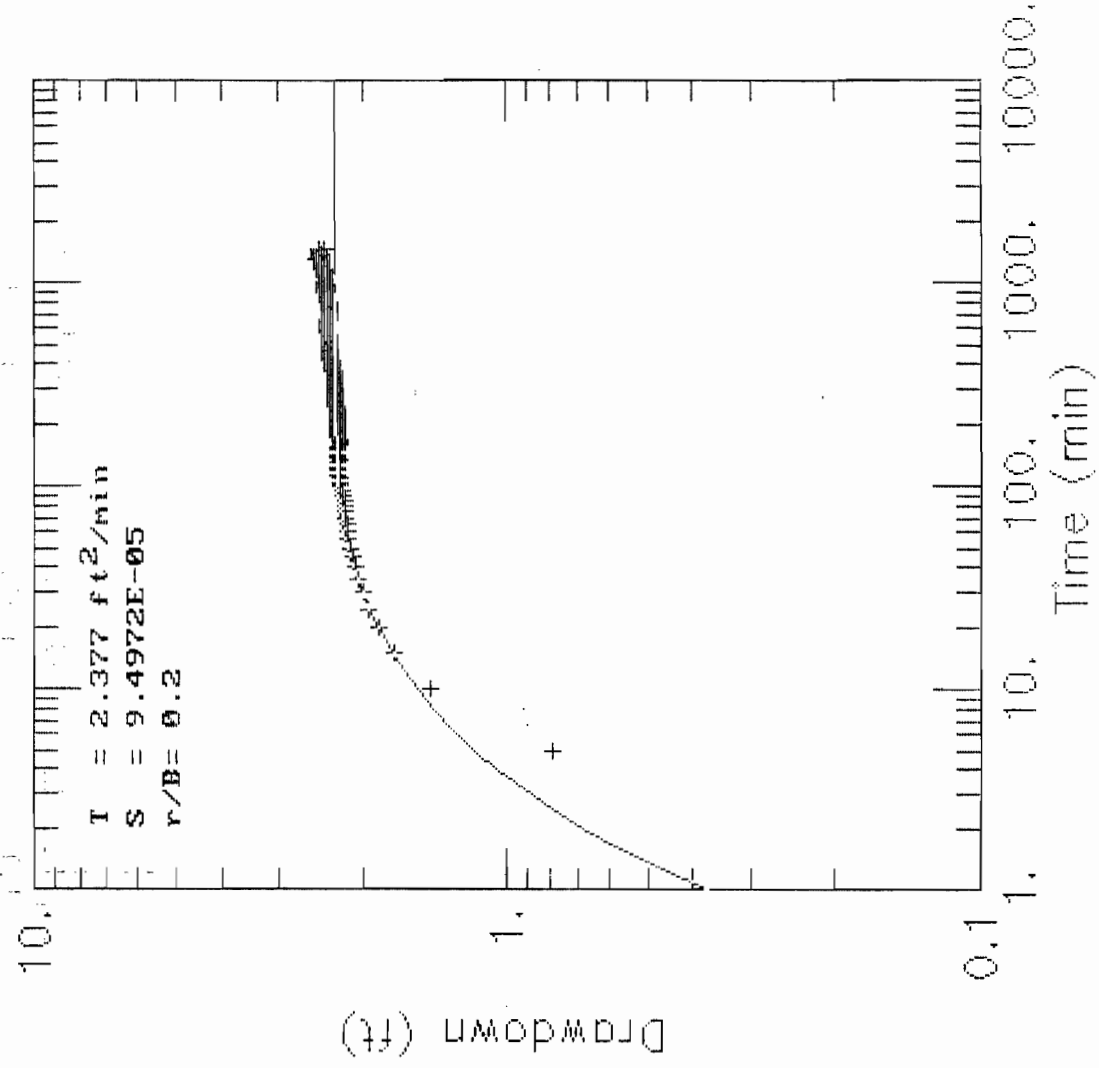
# DW10 CORRECTED DRAWDOWN DATA



# DW11 CORRECTED DRAWDOWN DATA

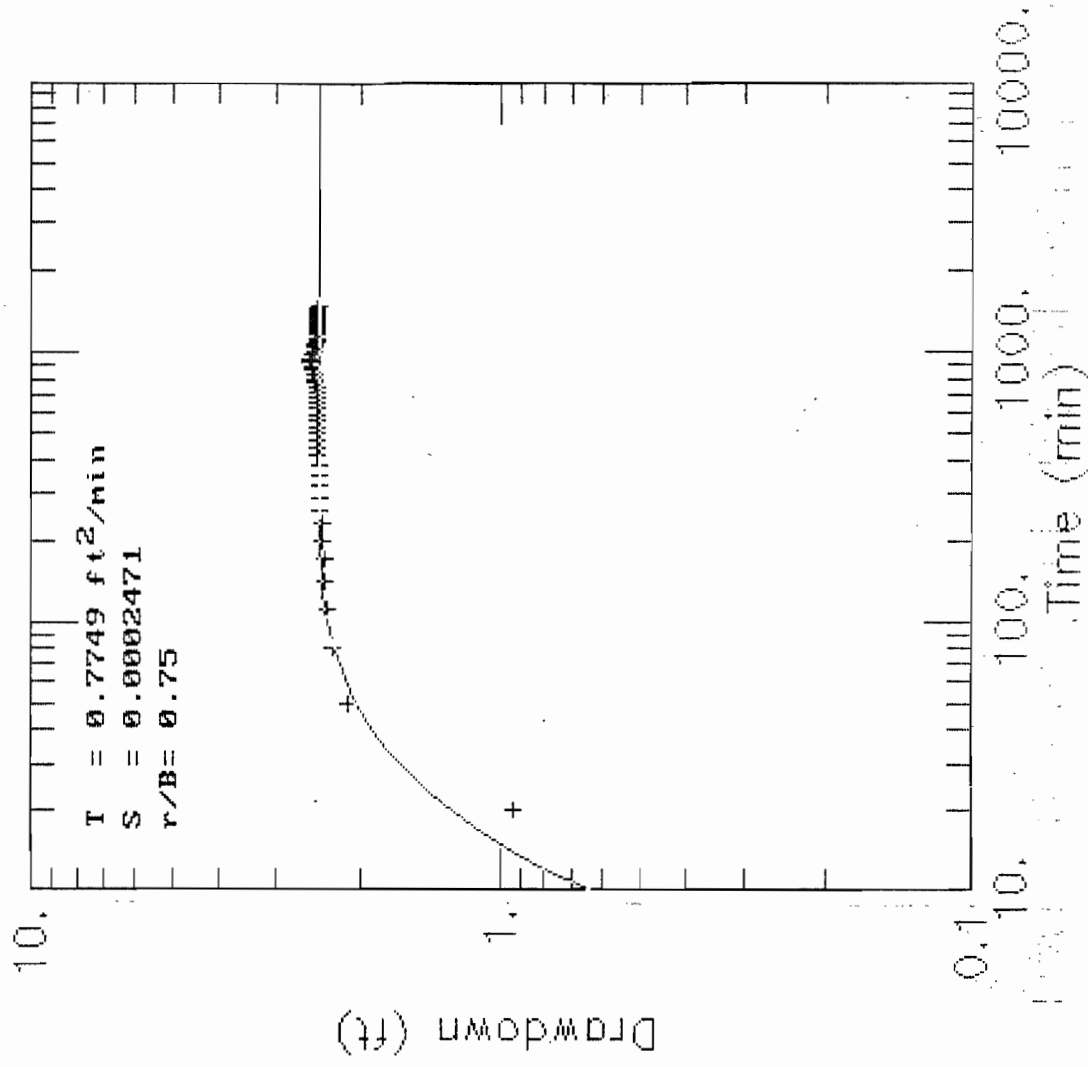


# DW12 CORRECTED DRAWDOWN DATA





# DW13 CORRECTED DRAWDOWN DATA



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