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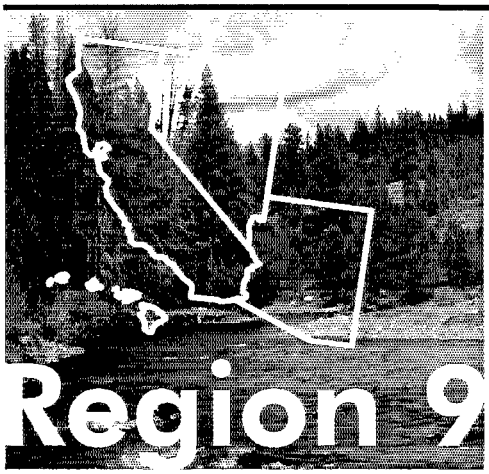

Final

Supplemental Remedial Investigation Report No. 2

Frontier Fertilizer Superfund Site

Prepared for:

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Acronyms and Abbreviations

bgs	below ground surface
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act of 1980
CCl_4	carbon tetrachloride
CLP	Contract Laboratory Program (EPA)
COC	chemical of concern
CPT	Cone penetration testing
DBCP	1,2-dibromo-3-chloropropane
DCP	1,2-dichloropropane
DNAPL	dense non-aqueous phase liquid
CPT	cone penetration testing
DQI	data quality indicator
DTSC	Department of Toxic Substances Control (California Environmental Protection Agency)
EDB	1,2-dibromoethane
gpm	gallons per minute
HSU	hydrostratigraphic unit
MCL	maximum contaminant level
MDL	method detection limit
μg/L	micrograms per liter
μg/kg	micrograms per kilogram
mL	milliliter
NAD	North American Datum
NPL	National Priority List
PARCC	precision, accuracy, representativeness, comparability, and completeness
PCB	polychlorinated biphenyl

PE	performance evaluation
ppm	parts per million
PRG	preliminary remediation goal
QA/QC	quality assurance/quality control
QC	quality control
RI	Remedial investigation
RPD	relative percent difference
SD	standard deviation
SDG	sample delivery group
SOP	standard operating procedure
TPH	total petroleum hydrocarbon
USEPA	U.S. Environmental Protection Agency
VOC	volatile organic compound
MCL	maximum contaminant level

SECTION 1

Introduction

Numerous investigations have been conducted at the Frontier Fertilizer National Priority List (NPL) site near Davis, California, since 1984. This Supplemental Remedial Investigation (RI) Report No. 2 presents the results of remedial investigations conducted from June 2001 to June 2002 at the site. These data were collected in support of ongoing efforts to characterize and remediate contaminated soil and groundwater associated with the Frontier Fertilizer site. The primary purpose of this report is to summarize and present data collected during this period as part of the removal action. This work was performed under U.S. Environmental Protection Agency (USEPA) Contract No. 68-W-98-225, Work Assignment No. 129-NARV-094R.

1.1 Site Background

The Frontier Fertilizer NPL site occupies approximately 8 acres and is located at 4303 and 4309 Second Street in Davis, Yolo County, California (Figure 1-1). The geographic coordinates for the site are 38° 33′ 9.5″ N latitude and 121° 42′ 7.0″ W longitude (Township 8 North, Range 2 East, Section 12, Mt. Diablo Baseline and Meridian). The area of the site is covered by U.S. Geological Survey 7.5 minute quadrangle: Davis, California.

The site is bounded on the south by Second Street and Interstate 80, on the north by Mace Ranch Park subdivision, and on the west and east by agricultural fields. Development is expected to occur on adjacent agricultural lands in the future. The nearest residence is located approximately 600 feet north of the site.

The Frontier Fertilizer site was first developed in the 1950s as an area to store agricultural equipment. In the 1970s, the site was used to store, mix, and distribute pesticides and fertilizer for local agricultural use. Pesticide handling was discontinued in the 1980s when toxic levels of pesticides were discovered in wastewater contained in an unlined disposal basin.

Today the Frontier Fertilizer site is located in a light industrial area at the eastern edge of the city of Davis. The site is fenced to control access and contains a warehouse which houses the treatment system, concrete pads, several sumps, and an area of soil contamination associated with the former unlined disposal basins. An extraction well field is located north of the site in undeveloped property and a network of monitoring wells surround the site.

The following sections describe contaminants of concern identified at the site and the groundwater extraction and treatment system currently operating in the area.

1.1.1 Chemicals of Concern

The primary chemicals of concern (COCs) were identified and described in the Final Interim Remedial Investigation Report for Frontier Fertilizer (Bechtel, 1997) following a

comprehensive review of compounds detected in soil and groundwater of the area. The most mobile, widely distributed, and highly concentrated of these are (URS, 2001c):

- 1,2-dibromoethane (EDB)
- 1,2-dichloropropane (DCP)
- 1,2-dibromo-3-chloropropane (DBCP)
- carbon tetrachloride (CCl_4)

Two groundwater plumes have been identified at the site. A pesticide plume, including EDB, DCP, and DBCP, originates in the area of the former disposal basins and currently extends beneath the southernmost portion of Mace Ranch Park subdivision in a northerly direction. A carbon tetrachloride plume appears to originate at the eastern section of the site and extends beneath the subdivision in a north-northwesterly direction. Benzene, vinyl chloride, 1,2-dichloroethane, and 1,1,2,2-tetrachloroethane have also been detected in groundwater above their respective maximum contaminant levels (MCLs) during quarterly monitoring (CH2M HILL, 2002).

1.1.2 Groundwater Remediation System

In early 1993, the California Environmental Protection Agency's (CalEPA) Department of Toxic Substances Control (DTSC) installed a system to extract groundwater from monitoring wells MW-7B and MW-7C. The extracted groundwater was treated with granular activated carbon to remove the organic chemicals. This system was designed to extract groundwater at a flow rate of 0.25 gallons per minute (gpm) in each well. The system operated until May 1995 when it was dismantled. In July 1995, the USEPA replaced it with a larger system using emergency response authority. The new system includes 16 extraction wells connected to a granular activated carbon treatment plant. Wells X-5A, X-5B, and X-5C were installed in September and October 2000 and wells X-6A, X-6B, X-7B, and X-7C were installed in November 2001, to facilitate future expansion of the groundwater extraction system. Wells OW-15D and OW-19C&D were installed in December 2001 to facilitate monitoring the A-1 zone between the site and City of Davis well #29.

Six injection wells were also installed to return treated groundwater to the aquifer, but have not been used since March 4, 1998. All of the treated groundwater is currently discharged to the City of Davis sanitary sewer (Industrial User Permit 15-99), and is no longer injected into the ground. The treatment system has been reconfigured several times since July 1995 and it has operated with intermittent downtime since 1999.

1.2 Summary of Field Activities

The following field activities were carried out at the Frontier Fertilizer site from June 2001 through June 2002 as part of ongoing remedial investigations:

- cone penetration testing (CPT) and associated groundwater, soil, and soil gas sampling (Section 3)
- coring and sampling of deep soil borings (Section 4)
- FLUTe™ system dense non-aqueous phase liquid (DNAPL) testing (Section 5)

- installation, testing, and sampling of additional extraction and monitoring wells (Sections 6 and 7)
- soil sampling in the area of former above-ground storage tanks (Section 8)

1.3 Purpose of Additional Activities

The purpose of CPT investigations, the coring and sampling of deep soil borings, and soil sampling in the area of former above ground storage tanks was to collect data that will be used to refine estimates of the mass and extent of soil and groundwater contamination at the site and improve the current understanding of site hydrogeology/stratigraphy. FLUTe™ technology was employed to test for the presence/absence of DNAPLs in source areas.

Additional extraction wells were installed to increase extraction in the area of the former disposal basin (known source of pesticides), provide in-plume groundwater extraction in an area of known high DCP concentration north of the site, and minimize further migration of the pesticide and CCl_4 plumes. Additional monitoring wells were installed between the plumes and City of Davis Well No. 29. Lithologic and geophysical data collected during the installation of new extraction and monitoring wells provided additional information about the stratigraphy of the site. Aquifer tests performed with the new extraction wells were used to estimate the hydraulic properties of contaminated strata and support the development of a numerical groundwater flow model (capture zone model) which will be used to optimize the extraction well field.

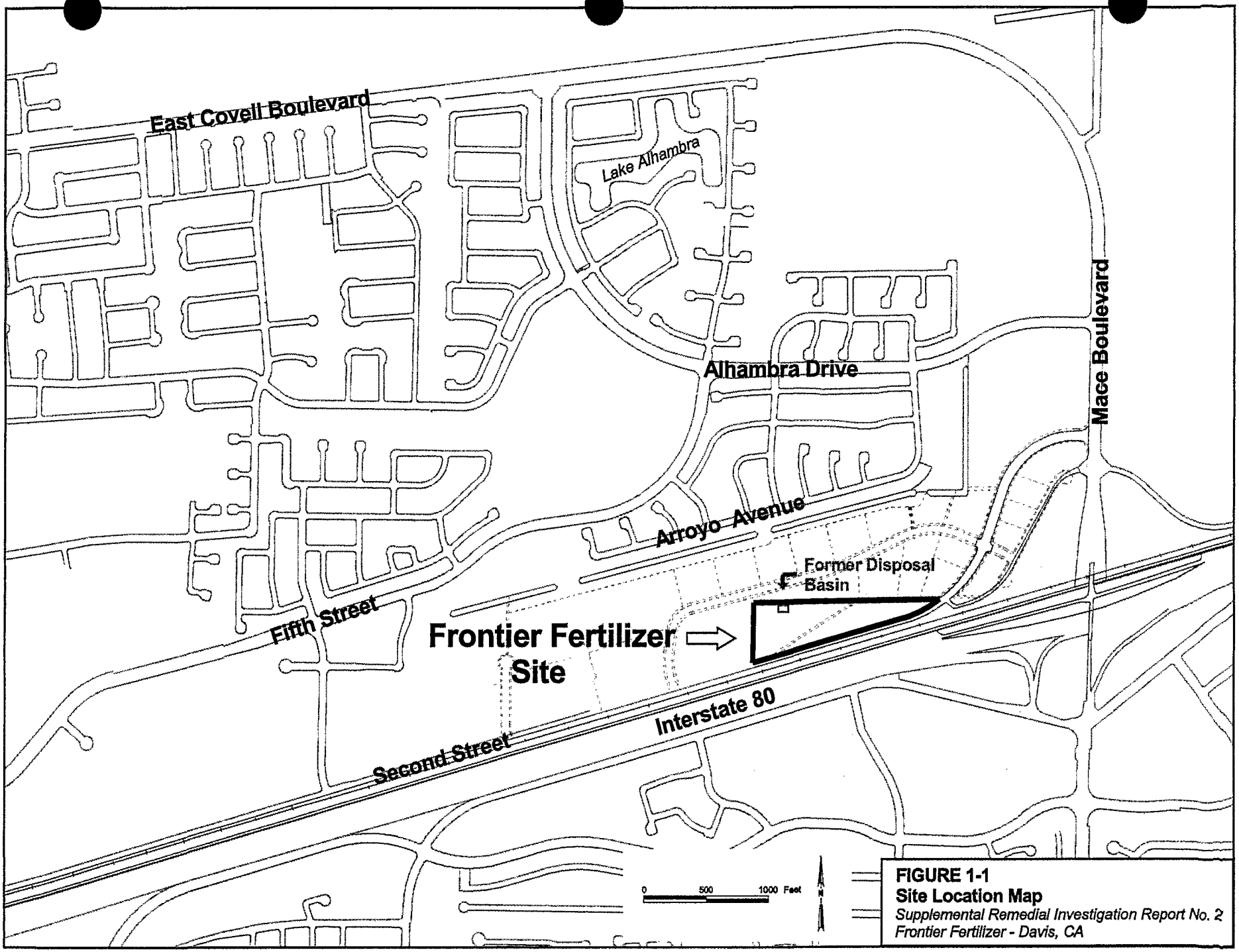

FIGURE 1-1
Site Location Map
Supplemental Remedial Investigation Report No. 2
Frontier Fertilizer - Davis, CA

CH2M Hill RDD \\Thor\Cart1\Rddgis\Frontier\ArcView\Supp_RIR.apr\Site Map 06-17-02

CH2MHILL

SECTION 2

Data Quality Objectives

2.1 Project Task and Problem Definition

Soil and groundwater quality data were collected during CPT investigations, the advancement of deep soil borings, and soil sampling in the area of former above-ground storage tanks from June 2001 to June 2002. These data were collected to refine estimates of the mass and extent of soil and groundwater contamination associated with the Frontier Fertilizer site.

2.2 Data Quality Objectives

The analytical objectives for this project were to determine the extent to which the identified contaminants of concern are present in soil, soil gas, and groundwater samples above analytical quantitation limits. Soil samples collected during CPT investigations were analyzed by the EPA Region 9 Laboratory for VOCs using the methods shown in Table 3-3. Soil samples collected during the advancement of deep soil borings were analyzed by the EPA Contract Laboratory Program (CLP) for VOCs as shown in Table 4-1 and analyzed for physical properties by Columbia Analytical Services as shown in Table 4-3. Soil samples collected in the area of former above ground storage tanks were analyzed by the EPA Region 9 Laboratory for TPH-gasoline and TPH-diesel and by the CLP for VOCs, pesticides/PCBs, and metals using the methods shown in Table 8-1. Soil gas samples collected during CPT investigations were analyzed by Environmental Analytical Services for VOCs using the method shown in Table 3-5. Depth discrete groundwater samples collected during CPT investigations were analyzed by the EPA Region 9 Laboratory for EDB and DBCP using Method 504 and additional VOCs using EPA Method 524.2 (Table 3-1). Groundwater samples collected from X-7B during interim monitoring events were analyzed by the EPA Region 9 Laboratory for EDB, DBCP, and additional VOCs using EPA Method 524.2 (Table 7-1). Finally, groundwater samples collected during quarterly monitoring (April 2002) were analyzed by the EPA Region 9 Laboratory for EDB, DBCP, and additional VOCs using EPA Method 524.2 (Table 6-2).

The target compound list (see Table 2-1) includes most compounds detected at the Frontier Fertilizer site in the CPT soil, soil gas, and hydropunch samples and the quarterly groundwater sampling. Compounds detected, but not included in Table 2-1, from soil sample from tank locations and their respective action levels are noted at the end of Table 8-2. The quantitation limits for analytes in soil were equal to or below EPA Region 9 preliminary remediation goals (PRGs) for industrial soil (Table 2-1). The quantitation limits for soil gas analytes were consistent with Method Detection Limits (MDLs) for EPA Method T0-15. The quantitation limits for groundwater analytes were equal to or below Federal or California maximum contaminant levels (MCLs) listed in Table 2-1.

TABLE 2-1
Target Compound List

Parameter	524.2 Water Quantitation Limit (µg/L)	MCL (µg/L)	8260B Soil Quantitation Limit (µg/kg)	EPA 9 PRG Residential Soil (µg/Kg)	EPA 9 PRG Industrial Soil (µg/Kg)	TO-15 Air Quantitation Limit (ppbv)
1,1-Dichloroethane	1	5[a]	5	2,800	6,000	1.0
1,1-Dichloroethene[b]	1	6[a]	5	120,000	410,000	1.0
1,1-Dichloropropene	1	NE	5	NE	NE	1.0
1,1,2,2-Tetrachloroethane[b]	1	1[a]	5	410	930	1.0
1,2-Dibromo-3-chloropropane (DBCP)	0.02[c]	0.2[a]	5	19	46	1.0
1,2-Dibromoethane (EDB)	0.02[c]	0.05[a]	5	6.9	28	1.0
1,2-Dichloroethane	0.5	0.5[a]	5	280	600	1.0
1,2-Dichloropropane (DCP)	1	5	5	340	740	1.0
1,3-Dichloropropane	1	NE	5	NE	NE	1.0
1,2-Dichlorobenzene	1	600	5	370,000	370,000	1.0
1,3-Dichlorobenzene	1	NE	5	16,000	63,000	1.0
1,4-Dichlorobenzene	1	5[a]	5	3,400	8,100	1.0
1,2,3-Trichloropropane	1	NE	5	5	11	1.0
1,1,2-Trichloroethane	1	5[a]	5	730	1,600	1.0
Acetone	NA	NE	5	16,000,000	6,000,000	1.0
Benzene	1	1.0[a]	5	600	1,300	1.0
Bromoform[b]	1	NE	5	62,000	220,000	1.0
Carbon Disulfide	NA	NE	5	360,000	720,000	1.0
Carbon Tetrachloride (CCl_4)	0.5	0.5[a]	5	250	550	1.0
Chlorobenzene	1	100	5	150,000	540,000	1.0
Chloroform	1	NE	5	940	2,000	1.0
Chloromethane[b]	1	NE	5	1,200	2,600	1.0
Dichloromethane	1	5[a]	5	9,100	21,000	1.0
Dichlorofluoromethane	1	NE	5	94,000	310,000	1.0
Ethylbenzene[b]	1	700	5	8,900	20,000	1.0
Tetrachloroethene	1	5	5	1,500	3,400	1.0

TABLE 2-1
Target Compound List

Parameter	524.2 Water Quantitation Limit (µg/L)	MCL (µg/L)	8260B Soil Quantitation Limit (µg/kg)	EPA 9 PRG Residential Soil (µg/Kg)	EPA 9 PRG Industrial Soil (µg/Kg)	TO-15 Air Quantitation Limit (ppbv)
Toluene[b]	1	150[a]	5	520,000	520,000	1.0
Trichloroethene	1	5	5	53	110	1.0
Trichlorofluoromethane	1	150[a]	5	390,000	2,000,000	1.0
Vinyl Chloride	0.5	0.5	5	79	750	1.0
Xylene	1	1,750[a]	5	270,000	420,000	1.0

[a] State of California Maximum Contaminant levels
[b] Included on compound list because of Method 8260B calibration and continuing calibration requirements
[c] EPA Method 504.1
EPA 9 US Environmental Protection Agency, Region 9
NE Not Established
NA Not Applicable

2.3 Data Quality Indicators

Precision, accuracy, representativeness, comparability and completeness (collectively referenced as PARCC) were employed as data quality indicators (DQIs) for analytical quality control (QC). The DQIs established were used in assessing the usability of analytical data in meeting the specified project objectives.

2.3.1 Precision, Accuracy, Representativeness, Completeness, and Comparability (PARCC) Parameters

Precision is the degree of mutual agreement between or among independent measurements of a similar property (usually reported as a standard deviation [SD] or relative percent difference [RPD]). Precision is evaluated by calculating the relative percent difference (RPD) between duplicate spike, duplicate sample analysis, field duplicate samples, or split samples, and comparing it to the precision objectives established. The results of the duplicate analyses are used to identify variability in the analytical process, sample collection and handling, and matrix factors. Appendix C includes QA/QC sample analytical results used to evaluate the effect of sampling activities on precision.

Accuracy is the degree of agreement of a measurement with a known or true value. To determine accuracy, a laboratory or field value is compared to a known or true concentration. Accuracy is measured by determining the percent recovery of known concentrations of analytes spiked into field samples (matrix spikes and surrogate spikes) or reagent water (laboratory control samples and performance evaluation (PE) samples).

Representativeness is achieved in part through the use of standard sampling and analytical procedures. Representativeness is also influenced by using the appropriate program design and elements such as proper well and sampling locations.

Completeness is expressed as a percent of valid usable data compared to the amount of data that was expected. Results qualified as rejected or unusable for data interpretation and decision making, or not reported due to lost or broken samples, or analytical error, negatively influence completeness and are subtracted from the total number of results to calculate completeness. The overall objective for completeness for this project was 95 percent.

Comparability expresses the confidence with which one data set can be compared to another. Comparability is achieved by using consistent precision and accuracy specifications and standard methods for sampling and analysis. It also refers to the reporting of data in comparable units so direct comparisons are simplified. The incorporation of these elements allow the data to be evaluated for trends or changes during the course of the project.

2.3.2 Quality Control Acceptance Criteria

The quality control acceptance criteria for the laboratories used in this project are listed in Table 2-2. The quality control acceptance criteria for the EPA Region 9 Laboratory are listed in standard operating procedure (SOP) #354, Rev #4 (VOCs in water by Method 524.2), SOP #350, Rev. #3 (EDB and DBCP in water by Method 504.1), and SOP #305, Rev. #3 (VOCs in soil by Method 8260B).

TABLE 2-2
Analytical Precision and Accuracy Objectives for Groundwater, Soil, and Soil Gas Sample Analyses

Parameter	Method(s)	Units	Quantitation Limit(s)	Accuracy % Recovery	Precision % RPD	Completeness %
EDB/DBCP in Water	504.1	µg/L	0.05	MS/MSD 75-115	MS/MSD ≤15	95
				LCS 60-140	Field Duplicates ≤20	
				Surrogates 65-125		
VOCs in water	524.2	µg/L	0.5-1.0	MS/MSD 65-135	MS/MSD ≤30	95
				LCS 70-130	Field Duplicates ≤20	
				Surrogates 85-115, 1,2-DCA 75-115		
VOCs in Soil	8260A 8260B	µg/kg	5.0	MS/MSD 50-150	MS/MSD ≤50	95

TABLE 2-2
Analytical Precision and Accuracy Objectives for Groundwater, Soil, and Soil Gas Sample Analyses

Parameter	Method(s)	Units	Quantitation Limit(s)	Accuracy % Recovery	Precision % RPD	Completeness %
	8015B					
				LCS 65-135	Field Duplicates ≤50	
				Surrogates 70-125		
VOCs in Soil Gas	TO-15	ppbv	1.0	MS/MSD 65-135	MS/MSD ≤35	95
				LCS 65-135	Field Duplicates ≤50	
				Surrogates 80-120		

SECTION 3

Cone Penetration Testing

Cone penetration testing (CPT) and associated soil, soil gas, and groundwater sampling were performed in the area of the Frontier Fertilizer site and north of the site to further characterize site hydrogeology/stratigraphy and the nature and extent of contamination. CPT sample analysis results were used to determine soil boring and DNAPL test locations (Sections 4 and 5).

3.1 Summary of CPT Investigations

3.1.1 Cone Penetration Testing

CPT produces information about soil type, soil permeability, and hydrostatic pore pressure. Field procedures and equipment employed at the site are described in detail by GREGG IN SITU (2002a and 2002b). An integrated electronic cone system (piezocone) was used to collect data describing tip resistance, sleeve friction, and pore pressure, known collectively as soundings, from 0 to approximately 120 feet below ground surface (bgs) or refusal at a total of 46 locations (CPT-1 to CPT-59) shown in Figure 3-1.

Cone penetration tests were performed on the former Frontier Fertilizer property, between the site and Mace Ranch Park subdivision, and in the subdivision. URS provided oversight for tests conducted in October, November, and December 2001 (CPT-1 to CPT-41). CH2M HILL provided oversight for tests conducted in April 2002 (CPT-50 to CPT-59). The rationale used to site cone penetration tests is described in Section 3.2. Sampling techniques employed during CPT are described in Section 3.3.

Tip resistance, sleeve friction, and pore pressure data were interpreted to estimate soil type as a function of depth (GREGG IN SITU, 2002a and 2002b). Rates of pore pressure dissipation were interpreted to estimate hydrostatic water pressure (including the location of the water table) and the horizontal permeability of soils. CPT logs of tip resistance, sleeve friction, dynamic pore pressure, and interpreted stratigraphy are presented in Appendix A. Estimates of hydrostatic water pressure and soil permeability are tabulated in GREGG IN SITU (2002a and 2002b).

3.1.2 Associated Groundwater and Soil Sampling and Analyses

Depth discrete groundwater samples were collected in October, November, and December 2001 and April 2002 at the same locations as cone penetration tests. Groundwater was sampled using a Hydropunch® groundwater sampler as described in Section 3.3. Groundwater samples were analyzed for EDB, DCP, DBCP, CCl_4, and other VOCs using methods described in Section 3.4.

Soil and soil gas were sampled in October, November, and December 2001 adjacent to CPT soundings at 12 locations in the area of the former disposal basin. Soil was sampled using a piston type soil sampler and analyzed for EDB, DCP, DBCP, and other VOCs. Soil gas was

collected and analyzed for EDB, DCP, and other VOCs. Methods used to analyze soil and soil gas are described in Section 3.4.

The results of chemical analyses are reported in Section 3.5.

3.2 Rationale for CPT Locations

Cone penetration soundings were performed at the Frontier Fertilizer site and north of the site to better characterize the stratigraphy and permeability of S-1, S-2, and A-1 zones in the area of remediation efforts. Depth discrete groundwater samples were collected within a few (lateral) feet of cone penetration tests to estimate the mass and extent of contamination in the saturated zone. Groundwater was sampled at CPT-50, CPT-51, CPT-52, CPT-58, and CPT-59, in particular, in an effort to identify the source of CCl_4 contamination. Groundwater samples were also collected at CPT-53 and CPT-54 to provide additional data for the siting of future potential extraction wells. The results of cone penetration soundings at CPT-1 through CPT-8 were used to target permeable strata for Hydropunch® groundwater sampling at CPT-9 through CPT-59.

Soil and soil gas sampling were performed in the area of the former disposal basin to estimate the mass and extent of contamination in the vadose zone.

Cross sections incorporating the results of CPT investigations will be provided in the upcoming Site Conceptual Model report.

Note: CPT numbers 29, 30, 33, 35, 36, 42-49, 55, and 57 were not used during investigation activities.

3.3 Sampling Techniques

CPT was performed in accordance with ASTM standards (D 5778-95). Piezocone operation is described in detail by GREGG IN SITU (2002a and 2002b). The CPT rig used a direct push method. Tip resistance, sleeve friction, dynamic pore pressure, and interpreted soil types were simultaneously recorded in the field (URS, 2001c; GREGG IN SITU, 2002a and 2002b).

Depth-discrete groundwater samples were collected using a Hydropunch® sampler. Hydropunch® samples were collected within a few (lateral) feet of CPT locations from approximately 40 to 120 feet bgs at up to six depths. The Hydropunch® sampler is described in detail by GREGG IN SITU (2002a and 2002b). The sampler operates by pushing 1.75 inch diameter hollow rods to targeted sampling depths. A stainless steel filter screen attached to the tip of the rods was exposed at targeted depths, allowing groundwater to flow into the column. Groundwater was sampled from the column using a stainless steel bailer. The bailer and sampler rods were decontaminated between each sample (URS, 2001c).

Soil samples were collected using a piston type soil sampler adjacent to CPT locations. Soil samples were collected from 5 to 30 feet bgs at 5 foot intervals. Stainless steel liners, 1-1/8 inches in diameter, were used to retrieve soil cores. Soil cores were sampled using Encore™ samplers (URS, 2001c).

Soil gas samples were collected at approximately 10 and 20 feet bgs in SUMMA™ canisters following an SOP a developed by URS (2001c). Soil gas samples were collected from the vadose zone through a steel probe inserted into the drive rod to the sample depth. A vacuum pump was used to draw soil gas through the steel probe to achieve a sufficient purge volume. After purging, the gas sample was collected in a SUMMA Canister.

Sample containers, preservation, holding times, and documentation are described in the sampling and analysis plan (URS, 2001c). Borings were backfilled with grout at the close of the investigation.

3.4 Analytical Methods

CPT groundwater samples were analyzed for EDB, DCP, DBCP, CCl_4 and other VOCs using the methods shown in Table 3-1. EDB and DBCP analyses were performed using Method 504.1. Analyses for DCP, CCl_4, and other VOCs were performed using Method 524.2.

CPT soil samples were analyzed for EDB, DCP, DBCP, and other VOCs using Methods 8260A and 8260B (Table 3-3). CPT soil gas samples were analyzed for EDB, DCP, and other VOCs using method TO-15 (Table 3-5).

QA/QC samples were collected and analyzed as described in the sampling and analysis plan (URS 2001c).

3.5 Analytical Results

Analytical results for CPT groundwater, soil, and soil gas samples are presented in Tables 3-2, 3-4, and 3-6 respectively. QA/QC sample analytical results for CPT groundwater, soil, and soil gas samples are presented in Appendix C (detects only). No significant QA/QC issues were identified. Analytical results presented in Tables 3-2, 3-4, and 3-6 have been validated by USEPA. Laboratory sample delivery group documentation (SDGs) for analyses performed on CPT groundwater and soil samples are contained in the "Lab Narratives" folder of the CD included with this report.

3.5.1 Results of CPT Groundwater Sampling and Analyses

Concentrations of DCP, CCl_4, EDB, and DBCP in groundwater sampled from zones S-1, S-2, and A-1 during CPT groundwater sampling and Fall 2001 groundwater monitoring are summarized in Figures 3-2 through 3-13. Because most of the CPT groundwater grab samples were collected in October 2001, monitoring well data from 3Q 2001 are shown for comparison. In addition, the first samples from new well clusters X-6 and X-7 (sampled in January 2002) are included, along with the more recent CPT groundwater samples (CPT-50 and greater, sampled in April 2002). Collectively, the data on these figures represents an approximate "snapshot" of COCs in groundwater over a relatively short time period.

Groundwater grab samples collected from CPT borings (Hydropunch® samples) were generally in agreement with existing monitoring well information. At locations where no previous groundwater quality data were available, groundwater grab samples from CPT borings enhanced the current knowledge of COC distribution. Grab samples from CPT borings represent groundwater quality in discrete high permeability intervals, as opposed to

samples collected from monitoring wells which represent volume-averaged concentrations. Grab samples were collected without purging; they are indicative of the presence or absence of COCs and provide a general idea of concentration magnitude. Groundwater concentration within a hydrostratigraphic unit (HSU) is best measured using monitoring well samples or a series of grab samples within the HSU.

The concentrations of DCP above 3 µg/L were limited to the source and nearby extraction areas, consistent with past data. Detections in the S-1 zone of between 0.5 and 3 µg/L were found in new CPTs as far north as Caricia Drive and Valerosa Way (CPT-23) and east to CPT-41.

A similar distribution was observed for DCP in the S-2 zone. The northern extent of detection was CPT-22 (south of CPT-23). There was a minor detection in well OW-7B at the southeast end of Arroyo Avenue, although the latter was observed in previous sampling. The most noteworthy aspect of the S-2 DCP distribution was the elevated concentration observed in X-7B. Samples from this well have ranged between 1500 and 3000 µg/L DCP. Although this range is similar to that observed in nearby OW-11B two years earlier, OW-11B concentrations have recently dropped to the 100 µg/L range. The X-7B concentration remains an anomaly. Nearby concentrations in CPT-22 and CPT-26 are far lower.

Concentrations of DCP in the A-1 zone are less extensive to the east, but extend further west than that observed in S-1 and S-2 zones. CPT-20, –21, and -40 samples were 57, 14, and 2 µg/L, respectively. Samples from shallower depths in these CPTs were below detection limits. The mechanism of migration to these areas is most likely downward gradients created by seasonal agricultural pumping followed by lateral migration within the A-1. Further monitoring will be performed in these areas, and groundwater extraction will be designed to limit migration to the A-1 zone.

The distributions of detectable EDB and DBCP were similar to that of DCP, even though lower detection limits were used for these compounds. No MCL exceedance for either compound was outside of the area of DCP exceedances.

CCl_4 concentrations show a more northwesterly trend than pesticides, as illustrated by the recent CPT samples. Overlap of the DCP and CCl_4 plumes is limited to the area of Caricia Drive in the Mace Ranch subdivision. The source of CCl_4 appears to be from the eastern end of the Frontier Site, where grain storage and truck maintenance work are documented. CCl_4 may have been used as a grain fumigant or a degreasing agent, though there is no direct documentation of its use or storage at the site.

Elevated S-1 zone concentrations in CPT-41 (up to 200 µg/L) prompted additional CPT exploration around the suspected sources in April 2002. A concentration of 19 µg/L was found in CPT-51, suggesting either local degradation or removal of the original source. The S-1 CCl_4 plume extends northwest to at least OW-6A.

The S-2 distribution of CCl_4 is similar to that of S-1, with the exception that it appears to extend only as far northwest as CPT-23. In the A-1 zone, CCl_4 is not found to the southeast, but the northwest extent is similar to that of shallower zones.

COCs are migrating from source areas by lateral groundwater gradients to the north and northwest, and by vertically downward gradients created by seasonal pumping from the

A-1 and A-2 zones. Due to the prevalence of low-permeability subsurface materials and the sorption capacity of the COCs to organic carbon, there has been limited migration in the past 30 years. A subsurface volume surrounding the source areas and higher dissolved concentrations is targeted for hydraulic containment by the groundwater extraction system. Testing of existing extraction wells is ongoing and, following numerical model analysis, additional wells will be installed in 2003 to contain the target volume.

Monitoring wells are planned for key areas of the Mace Ranch subdivision to verify concentrations found in CPT borings and to monitor downgradient extent of COCs. Following containment of the target volume described above, extraction and/or treatment of groundwater in these areas may be undertaken.

3.5.2 Results of CPT Soil Sampling and Analyses

Similar to the Final Interim RI report (Bechtel, 1997), the highest concentrations of DCP, EDB and DBCP were detected at depths of 25 to 30 ft bgs in the area near the former disposal basin (CPT-9, -10, and -11, see Table 3-4). DCP and EDB were also detected at concentrations greater than the Industrial Soil PRG in two shallow samples (5 ft bgs) collected west of the former disposal basin (CPT-9 and -10). DCP was found at 1000 µg/kg or greater in at least one sample from CPT-1, -2, -7, -8, -9, and –11, respectively. The largest concentrations of EDB (50,000 µg/kg) and DBCP (1,000,000 µg/kg) were detected in the CPT-11 sample collected at 25 ft bgs. CCl_4 was not detected above the Industrial Soil PRG in any CPT soil sample; however, soil CPT samples were only collected in the area of the former pesticide disposal basin.

The distribution of CPT soil sample locations and the soil sample locations from the Bechtel 1997 RI report are shown in Figure 3-14. Analytical results for the Bechtel soil samples are located in the 1997 RI report. Shallow soil samples were collected at the surface and at 1-3 feet bgs by Bechtel while shallow CPT soil samples were collected at 5 feet bgs. The CPT and Bechtel soil sample results will be used to calculate the mass of DBCP, EDB, DCP and the respective volume of contaminated soil in the area of the former disposal basin. The mass of contaminants and respective volume of contaminated soil will be reported in the Remedial Alternative Screening technical memorandum and subsequent Feasibility Study report.

3.5.3 Results of Soil Gas Sampling and Analyses

Soil gas samples were collected at 10 and 20 feet bgs at CPT locations near the former disposal basin. DCP and EDB were detected in soil gas samples collected at CPT -1,-2,-9,-10, and -11 (see Table 3-6). CCl_4 was not detected and DBCP is not on the analyte list for method TO-15. The largest concentration of DCP (11,366 ppbv) was detected in CPT-9, located west of the former disposal basin. The largest concentration of EDB (106 ppbv) was detected in CPT-10, located between CPT-9 and the former disposal basin.

Soil gas samples were collected at 5 feet bgs for the Baseline Risk Assessment Report (Bechtel, 1999). Figure 3-15 shows the soil gas sampling locations from both efforts. The maximum DCP soil gas concentration detected during the 1997 sampling effort was 19,406 ppbv and the maximum DCP soil gas concentration detected in the 2001 effort was 11,366 ppbv. The corresponding 1997 and 2001 maximum EDB soil gas concentrations were, respectively, 320 and 106 ppbv. Although there is insufficient data to substantiate a

downward trend in soil gas concentrations for the site, the lower soil gas concentrations encountered in the 2001 data set (relative to 1997 data) indicate that the risk calculations performed for the 1999 Baseline Risk Assessment Report remain protective.

Table 3-1
CPT Hydropunch Sampling and Analyses

Location ID	Sample ID	Depth (ft bgs)	QA/QC Type[1]	Sample Date	Method
CPT-1	39375	46	N	11/09/2001	504.1
CPT-1	39375	46	N	11/09/2001	524.2
CPT-1	39377	68	N	11/09/2001	524.2
CPT-1	39378	68	FD	11/09/2001	524.2
CPT-1	39379	84	N	11/09/2001	524.2
CPT-1	39379	84	N	11/09/2001	504.1
CPT-2	39383	46	N	11/07/2001	524.2
CPT-2	39383	46	N	11/07/2001	504.1
CPT-2	39386	80	N	11/07/2001	524.2
CPT-2	39388	80	FD	11/07/2001	524.2
CPT-3	39392	46	N	11/08/2001	524.2
CPT-3	39392	46	N	11/08/2001	504.1
CPT-3	39393	59	N	11/08/2001	504.1
CPT-3	39393	59	N	11/08/2001	524.2
CPT-3	39394	80	N	11/08/2001	524.2
CPT-3	39395	92	N	11/08/2001	524.2
CPT-3	39395	92	N	11/08/2001	504.1
CPT-4	39398	45	N	11/28/2001	524.2
CPT-4	39398	45	N	11/28/2001	504.1
CPT-4	39399	67	N	11/28/2001	524.2
CPT-4	39399	67	N	11/28/2001	504.1
CPT-4	39400	113	N	11/28/2001	524.2
CPT-4	39400	113	N	11/28/2001	504.1
CPT-5	39404	49	N	11/28/2001	524.2
CPT-5	39404	49	N	11/28/2001	504.1
CPT-5	39405	49	FD	11/28/2001	524.2
CPT-5	39405	49	FD	11/28/2001	504.1
CPT-5	39407	73	N	11/28/2001	524.2
CPT-5	39407	73	N	11/28/2001	504.1
CPT-5	39407	113	N	11/28/2001	524.2
CPT-5	39407	113	N	11/28/2001	504.1
CPT-6	39412	45	N	11/20/2001	524.2
CPT-6	39412	45	N	11/20/2001	504.1
CPT-6	39413	60	N	11/20/2001	524.2
CPT-7	39417	45	N	11/08/2001	524.2
CPT-7	39417	45	N	11/08/2001	504.1
CPT-7	39419	58	N	11/09/2001	504.1
CPT-7	39419	58	N	11/09/2001	524.2
CPT-7	39420	58	FD	11/09/2001	504.1
CPT-7	39420	58	FD	11/09/2001	524.2
CPT-7	39422	80	N	11/09/2001	504.1
CPT-7	39422	80	N	11/09/2001	524.2
CPT-8	39425	46	N	11/06/2001	524.2
CPT-8	39425	46	N	11/06/2001	504.1
CPT-8	39426	59	N	11/06/2001	504.1
CPT-8	39426	59	N	11/06/2001	524.2
CPT-9	39431	45	N	11/05/2001	504.1
CPT-9	39431	45	N	11/05/2001	524.2

Table 3-1
CPT Hydropunch Sampling and Analyses

Location ID	Sample ID	Depth (ft bgs)	QA/QC Type[1]	Sample Date	Method
CPT-9	39433	60	N	11/05/2001	504.1
CPT-9	39433	60	N	11/05/2001	524.2
CPT-9	39434	60	FD	11/05/2001	524.2
CPT-9	39434	60	FD	11/05/2001	504.1
CPT-10	39439	45	N	11/02/2001	504.1
CPT-10	39439	45	N	11/02/2001	524.2
CPT-10	39440	75	N	11/02/2001	504.1
CPT-10	39440	75	N	11/02/2001	524.2
CPT-11	39444	45	N	10/31/2001	524.2
CPT-11	39444	45	N	10/31/2001	504.1
CPT-11	39446	70	N	11/01/2001	524.2
CPT-12	39452	46	N	11/21/2001	524.2
CPT-12	39452	46	N	11/21/2001	504.1
CPT-12	39453	82	N	11/21/2001	524.2
CPT-12	39453	82	N	11/21/2001	504.1
CPT-13	39458	47	N	11/16/2001	504.1
CPT-13	39458	47	N	11/16/2001	524.2
CPT-13	39459	59	N	11/16/2001	504.1
CPT-13	39459	59	N	11/16/2001	524.2
CPT-14	39465	52	N	12/19/2001	524.2
CPT-14	39465	52	N	12/19/2001	504.1
CPT-14	39466	52	N	12/19/2001	524.2
CPT-14	39466	52	N	12/19/2001	504.1
CPT-14	39467	52	N	12/19/2001	524.2
CPT-14	39467	52	N	12/19/2001	504.1
CPT-14	39468	112	N	12/19/2001	524.2
CPT-14	39468	112	N	12/19/2001	504.1
CPT-15	39472	47	N	11/19/2001	504.1
CPT-15	39472	47	N	11/19/2001	524.2
CPT-16	39478	50	N	10/25/2001	504.1
CPT-16	39478	50	N	10/25/2001	524.2
CPT-16	39479	50	FD	10/25/2001	504.1
CPT-16	39479	50	FD	10/25/2001	524.2
CPT-17	39484	48	N	10/26/2001	504.1
CPT-17	39484	48	N	10/26/2001	524.2
CPT-17	39485	77	N	10/26/2001	504.1
CPT-17	39485	77	N	10/26/2001	524.2
CPT-17	39487	116	N	10/26/2001	504.1
CPT-17	39487	116	N	10/26/2001	524.2
CPT-17	39488	116	N	10/26/2001	504.1
CPT-17	39488	116	N	10/26/2001	524.2
CPT-18	39490	48	N	10/29/2001	524.2
CPT-18	39490	48	N	10/29/2001	504.1
CPT-18	39492	89	N	10/29/2001	524.2
CPT-18	39492	89	N	10/29/2001	504.1
CPT-18	39492	112	N	10/29/2001	524.2
CPT-18	39492	112	N	10/29/2001	504.1
CPT-19	39495	42	N	10/29/2001	524.2

Table 3-1
CPT Hydropunch Sampling and Analyses

Location ID	Sample ID	Depth (ft bgs)	QA/QC Type[1]	Sample Date	Method
CPT-19	39495	42	N	10/29/2001	504.1
CPT-19	39496	65	N	10/29/2001	524.2
CPT-19	39496	65	N	10/29/2001	504.1
CPT-19	39497	84	N	10/29/2001	524.2
CPT-19	39497	84	N	10/29/2001	504.1
CPT-19	39499	113	N	10/29/2001	524.2
CPT-19	39499	113	N	10/29/2001	504.1
CPT-19	39500	113	FD	10/29/2001	524.2
CPT-19	39500	113	FD	10/29/2001	504.1
CPT-20	39501	48	N	10/24/2001	504.1
CPT-20	39501	48	N	10/24/2001	524.2
CPT-20	39502	70	N	10/24/2001	504.1
CPT-20	39502	70	N	10/24/2001	524.2
CPT-20	39503	103	N	10/24/2001	504.1
CPT-20	39503	103	N	10/24/2001	524.2
CPT-21	39505	48	N	10/18/2001	504.1
CPT-21	39505	48	N	10/18/2001	524.2
CPT-21	39506	70	N	10/18/2001	504.1
CPT-21	39506	70	N	10/18/2001	524.2
CPT-21	39508	120	N	10/18/2001	504.1
CPT-21	39508	120	N	10/18/2001	524.2
CPT-22	39511	45	N	10/19/2001	524.2
CPT-22	39511	45	N	10/19/2001	504.1
CPT-22	39512	70	N	10/19/2001	504.1
CPT-22	39512	70	N	10/19/2001	524.2
CPT-22	39513	100	N	10/19/2001	504.1
CPT-22	39513	100	N	10/19/2001	524.2
CPT-23	39515	48	N	10/23/2001	504.1
CPT-23	39515	48	N	10/23/2001	524.2
CPT-23	39517	75	N	10/23/2001	524.2
CPT-23	39517	75	N	10/23/2001	504.1
CPT-23	39518	75	FD	10/23/2001	524.2
CPT-23	39518	75	FD	10/23/2001	504.1
CPT-23	39517	101	N	10/23/2001	524.2
CPT-23	39517	101	N	10/23/2001	504.1
CPT-24	39522	49	N	10/24/2001	524.2
CPT-24	39522	49	N	10/24/2001	504.1
CPT-24	39523	70	N	10/24/2001	524.2
CPT-24	39523	70	N	10/24/2001	504.1
CPT-24	39524	100	N	10/24/2001	524.2
CPT-24	39524	100	N	10/24/2001	504.1
CPT-25	39527	45	N	10/22/2001	524.2
CPT-25	39527	45	N	10/22/2001	504.1
CPT-25	39528	74	N	10/22/2001	524.2
CPT-25	39528	74	N	10/22/2001	504.1
CPT-25	39529	102	N	10/22/2001	524.2
CPT-25	39529	102	N	10/22/2001	504.1
CPT-25	39530	102	N	10/22/2001	524.2

Table 3-1
CPT Hydropunch Sampling and Analyses

Location ID	Sample ID	Depth (ft bgs)	QA/QC Type[1]	Sample Date	Method
CPT-25	39530	102	N	10/22/2001	504.1
CPT-26	39532	47	N	10/22/2001	524.2
CPT-26	39532	47	N	10/22/2001	504.1
CPT-26	39533	70	N	10/22/2001	524.2
CPT-26	39533	70	N	10/22/2001	504.1
CPT-26	39535	100	N	10/22/2001	524.2
CPT-26	39535	100	N	10/22/2001	504.1
CPT-26	39536	100	FD	10/22/2001	524.2
CPT-26	39536	100	FD	10/22/2001	504.1
CPT-27	39538	45	N	10/23/2001	524.2
CPT-27	39538	45	N	10/23/2001	504.1
CPT-27	39539	67	N	10/23/2001	524.2
CPT-27	39539	67	N	10/23/2001	504.1
CPT-27	39540	99	N	10/23/2001	524.2
CPT-27	39540	99	N	10/23/2001	504.1
CPT-28	39543	46	N	11/29/2001	524.2
CPT-28	39543	46	N	11/29/2001	504.1
CPT-28	39544	67	N	11/29/2001	524.2
CPT-28	39544	67	N	11/29/2001	504.1
CPT-28	39545	85	N	11/30/2001	504.1
CPT-28	39545	85	N	11/30/2001	524.1
CPT-28	39547	112	N	11/30/2001	504.1
CPT-28	39547	112	N	11/30/2001	524.1
CPT-28	39548	112	FD	11/30/2001	504.1
CPT-28	39548	112	FD	11/30/2001	524.1
CPT-31	39559	44	N	11/15/2001	524.2
CPT-31	39559	44	N	11/15/2001	504.1
CPT-31	39560	44	FD	11/15/2001	524.2
CPT-31	39560	44	FD	11/15/2001	504.1
CPT-31	39561	57	N	11/15/2001	524.2
CPT-31	39561	57	N	11/15/2001	504.1
CPT-31	39562	76	N	11/15/2001	524.2
CPT-31	39562	76	N	11/15/2001	504.1
CPT-31	39564	100	N	11/15/2001	524.2
CPT-31	39564	100	N	11/15/2001	504.1
CPT-31	39565	123	N	11/15/2001	524.2
CPT-31	39565	123	N	11/15/2001	504.1
CPT-32	39566	45	N	11/27/2001	524.2
CPT-32	39566	45	N	11/27/2001	504.1
CPT-32	39567	70	N	11/27/2001	524.2
CPT-32	39568	94	N	11/27/2001	524.2
CPT-32	39568	94	N	11/27/2001	504.1
CPT-32	39569	115	N	11/27/2001	524.2
CPT-32	39569	115	N	11/27/2001	504.1
CPT-34	39576	46	N	12/20/2001	504.1
CPT-34	39576	46	N	12/20/2001	524.2
CPT-34	39577	46	FD	12/20/2001	504.1
CPT-34	39577	46	FD	12/20/2001	524.2

Table 3-1
CPT Hydropunch Sampling and Analyses

Location ID	Sample ID	Depth (ft bgs)	QA/QC Type[1]	Sample Date	Method
CPT-34	39578	113	N	12/20/2001	524.2
CPT-34	39578	113	N	12/20/2001	504.1
CPT-37	39840	55	N	11/13/2001	524.2
CPT-37	39840	55	N	11/13/2001	504.1
CPT-37	39841	72	N	11/13/2001	524.2
CPT-37	39841	72	N	11/13/2001	504.1
CPT-37	39842	100	N	11/13/2001	524.2
CPT-37	39842	100	N	11/13/2001	504.1
CPT-37	39843	116	N	11/13/2001	524.2
CPT-37	39843	116	N	11/13/2001	504.1
CPT-38	39844	76	N	11/14/2001	504.1
CPT-38	39844	76	N	11/14/2001	524.2
CPT-38	39845	99	N	11/14/2001	504.1
CPT-38	39845	99	N	11/14/2001	524.2
CPT-38	39846	117	N	11/14/2001	504.1
CPT-38	39846	117	N	11/14/2001	524.2
CPT-39	39848	49	N	11/13/2001	504.1
CPT-39	39848	49	N	11/13/2001	524.2
CPT-39	39849	49	FD	11/13/2001	504.1
CPT-39	39849	49	FD	11/13/2001	524.2
CPT-39	39850	72	N	11/13/2001	504.1
CPT-39	39850	72	N	11/13/2001	524.2
CPT-39	39851	92	N	11/13/2001	524.2
CPT-39	39851	92	N	11/13/2001	504.1
CPT-39	39852	102	N	11/13/2001	524.2
CPT-39	39852	102	N	11/13/2001	504.1
CPT-40	39853	78	N	11/12/2001	504.1
CPT-40	39853	78	N	11/12/2001	524.2
CPT-40	39854	96	N	11/12/2001	504.1
CPT-40	39854	96	N	11/12/2001	524.2
CPT-40	39856	106	N	11/12/2001	504.1
CPT-40	39856	106	N	11/12/2001	524.2
CPT-40	39857	116	N	11/12/2001	504.1
CPT-40	39857	116	N	11/12/2001	524.2
CPT-41	39858	45	N	12/19/2001	524.2
CPT-41	39858	45	N	12/19/2001	504.1
CPT-41	39859	45	FD	12/19/2001	524.2
CPT-41	39859	45	FD	12/19/2001	504.1
CPT-41	39860	57	N	12/19/2001	524.2
CPT-41	39860	57	N	12/19/2001	504.1
CPT-41	39861	67	N	12/19/2001	524.2
CPT-41	39861	67	N	12/19/2001	504.1
CPT-41	39862	114	N	12/19/2001	524.2
CPT-41	39862	114	N	12/19/2001	504.1
CPT-50	CPT50-1	46	N	04/01/2002	524.2
CPT-50	CPT50-2	65	N	04/01/2002	524.2
CPT-50	CPT50-3	113	N	04/01/2002	524.2
CPT-50	CPT50-4	113	FD	04/01/2002	524.2

Table 3-1
CPT Hydropunch Sampling and Analyses

Location ID	Sample ID	Depth (ft bgs)	QA/QC Type[1]	Sample Date	Method
CPT-51	CPT51-1	46	N	04/01/2002	524.2
CPT-51	CPT51-3	69	N	04/01/2002	524.2
CPT-51	CPT51-4	112	N	04/01/2002	524.2
CPT-52	CPT52-1	40	N	04/02/2002	524.2
CPT-52	CPT52-2	75	N	04/02/2002	524.2
CPT-52	CPT52-4	113	N	04/02/2002	524.2
CPT-53	CPT53-1	58	N	04/02/2002	524.2
CPT-53	CPT53-2	75	N	04/02/2002	524.2
CPT-53	CPT53-4	114	N	04/02/2002	524.2
CPT-54	CPT54-1	43	N	04/03/2002	524.2
CPT-54	CPT54-1	43	N	04/03/2002	504.1
CPT-54	CPT54-2	68	N	04/03/2002	504.1
CPT-54	CPT54-2	68	N	04/03/2002	524.2
CPT-54	CPT54-3	102	N	04/03/2002	524.2
CPT-54	CPT54-3	102	N	04/03/2002	504.1
CPT-54	CPT54-5	115	N	04/03/2002	504.1
CPT-54	CPT54-5	115	N	04/03/2002	524.2
CPT-56	CPT56-1	42	N	04/05/2002	524.2
CPT-56	CPT56-1	42	N	04/05/2002	504.1
CPT-56	CPT56-2	42	FD	04/05/2002	524.2
CPT-56	CPT56-2	42	FD	04/05/2002	504.1
CPT-56	CPT56-4	65	N	04/05/2002	524.2
CPT-56	CPT56-4	65	N	04/05/2002	504.1
CPT-56	CPT56-5	97	N	04/05/2002	524.2
CPT-56	CPT56-5	97	N	04/05/2002	504.1
CPT-56	CPT56-6	110	N	04/05/2002	524.2
CPT-56	CPT56-6	110	N	04/05/2002	504.1
CPT-58	CPT58-1	41	N	04/03/2002	524.2
CPT-58	CPT58-2	83	N	04/03/2002	524.2
CPT-58	CPT58-3	83	FD	04/03/2002	524.2
CPT-58	CPT58-4	112	N	04/03/2002	524.2
CPT-59	CPT59-1	66	N	04/04/2002	524.2
CPT-59	CPT59-2	112	N	04/04/2002	524.2

Notes:
1. QA/QC Type:
N = sample
FD = field duplicate

Table 3-2
Chemicals Detected in CPT Hydropunch Samples

Location ID	Sample ID	Sample Date	Depth (ft bgs)	QA/QC Type[1]	Method	Analyte	Result[2]	Units	Flag[3]
CPT-1	39375	11/09/2001	46	N	504.1	1,2-Dibromoethane (EDB)	**27**	ug/L	J
CPT-1	39375	11/09/2001	46	N	524.2	1,2-Dichloroethane	**20**	ug/L	J
CPT-1	39375	11/09/2001	46	N	524.2	1,3-Dichloropropane	**10**	ug/L	J
CPT-1	39375	11/09/2001	46	N	524.2	1,2-Dibromoethane (EDB)	**20**	ug/L	J
CPT-1	39375	11/09/2001	46	N	504.1	1,2-Dibromo-3-chloropropane (DBCP)	0.09	ug/L	
CPT-1	39375	11/09/2001	46	N	524.2	1,2,3-Trichloropropane	100	ug/L	
CPT-1	39375	11/09/2001	46	N	524.2	1,2-Dichloropropane (DCP)	**4100**	ug/L	
CPT-1	39377	11/09/2001	68	N	524.2	Chlorobenzene	80	ug/L	J
CPT-1	39377	11/09/2001	68	N	524.2	1,2,3-Trichloropropane	1100	ug/L	
CPT-1	39377	11/09/2001	68	N	524.2	1,2-Dibromoethane (EDB)	**50000**	ug/L	
CPT-1	39377	11/09/2001	68	N	524.2	1,3-Dichloropropane	**200**	ug/L	
CPT-1	39377	11/09/2001	68	N	524.2	Benzene	**100**	ug/L	
CPT-1	39377	11/09/2001	68	N	524.2	1,2-Dichloroethane	**200**	ug/L	
CPT-1	39377	11/09/2001	68	N	524.2	1,2-Dichloropropane (DCP)	**64000**	ug/L	
CPT-1	39378	11/09/2001	68	FD	524.2	Chlorobenzene	80	ug/L	J
CPT-1	39378	11/09/2001	68	FD	524.2	1,2,3-Trichloropropane	1000	ug/L	
CPT-1	39378	11/09/2001	68	FD	524.2	1,2-Dichloroethane	**200**	ug/L	
CPT-1	39378	11/09/2001	68	FD	524.2	Benzene	**100**	ug/L	
CPT-1	39378	11/09/2001	68	FD	524.2	1,2-Dichloropropane (DCP)	**68000**	ug/L	
CPT-1	39378	11/09/2001	68	FD	524.2	1,3-Dichloropropane	**200**	ug/L	
CPT-1	39378	11/09/2001	68	FD	524.2	1,2-Dibromoethane (EDB)	**50000**	ug/L	
CPT-1	39379	11/09/2001	84	N	524.2	Methyl t-butyl ether (MTBE)	0.8	ug/L	J
CPT-1	39379	11/09/2001	84	N	504.1	1,2-Dibromoethane (EDB)	**3.3**	ug/L	
CPT-1	39379	11/09/2001	84	N	504.1	1,2-Dibromo-3-chloropropane (DBCP)	0.07	ug/L	
CPT-1	39379	11/09/2001	84	N	524.2	1,2-Dichloropropane (DCP)	**29**	ug/L	
CPT-1	39379	11/09/2001	84	N	524.2	1,2-Dibromoethane (EDB)	**4**	ug/L	
CPT-2	39383	11/07/2001	46	N	524.2	1,2,3-Trichloropropane	26	ug/L	J
CPT-2	39383	11/07/2001	46	N	524.2	1,3-Dichloropropane	**4**	ug/L	J
CPT-2	39383	11/07/2001	46	N	524.2	1,2-Dichloropropane (DCP)	**660**	ug/L	J
CPT-2	39383	11/07/2001	46	N	524.2	1,2-Dibromoethane (EDB)	**2**	ug/L	J
CPT-2	39383	11/07/2001	46	N	524.2	Chlorobenzene	3	ug/L	
CPT-2	39383	11/07/2001	46	N	504.1	1,2-Dibromo-3-chloropropane (DBCP)	**0.29**	ug/L	
CPT-2	39383	11/07/2001	46	N	504.1	1,2-Dibromoethane (EDB)	**2**	ug/L	

Table 3-2
Chemicals Detected in CPT Hydropunch Samples

Location ID	Sample ID	Sample Date	Depth (ft bgs)	QA/QC Type[1]	Method	Analyte	Result[2]	Units	Flag[3]
CPT-2	39383	11/07/2001	46	N	524.2	1,2-Dichloroethane	1.6	ug/L	
CPT-2	39386	11/07/2001	80	N	524.2	Bromoform	0.7	ug/L	
CPT-2	39386	11/07/2001	80	N	524.2	Tetrachloroethene	1	ug/L	
CPT-2	39386	11/07/2001	80	N	524.2	1,1-Dichloroethene	0.8	ug/L	
CPT-2	39386	11/07/2001	80	N	524.2	1,2-Dibromo-3-chloropropane (DBCP)	**19**	ug/L	
CPT-2	39386	11/07/2001	80	N	524.2	1,3-Dichloropropane	**70**	ug/L	
CPT-2	39386	11/07/2001	80	N	524.2	1,2-Dibromoethane (EDB)	**9000**	ug/L	
CPT-2	39386	11/07/2001	80	N	524.2	Chlorobenzene	18	ug/L	
CPT-2	39386	11/07/2001	80	N	524.2	O-Xylene	3	ug/L	
CPT-2	39386	11/07/2001	80	N	524.2	Isopropylbenzene	1	ug/L	
CPT-2	39386	11/07/2001	80	N	524.2	1,2,3-Trichloropropane	400	ug/L	
CPT-2	39386	11/07/2001	80	N	524.2	Benzene	**160**	ug/L	
CPT-2	39386	11/07/2001	80	N	524.2	Dichloromethane	1	ug/L	
CPT-2	39386	11/07/2001	80	N	524.2	1,1-Dichloroethane	**7**	ug/L	
CPT-2	39386	11/07/2001	80	N	524.2	Chloroform	7	ug/L	
CPT-2	39386	11/07/2001	80	N	524.2	1,1-Dichloropropene	3	ug/L	
CPT-2	39386	11/07/2001	80	N	524.2	1,2-Dichloroethane	**22**	ug/L	
CPT-2	39386	11/07/2001	80	N	524.2	1,2-Dichloropropane (DCP)	**12000**	ug/L	
CPT-2	39386	11/07/2001	80	N	524.2	1,1,2-Trichloroethane	**4**	ug/L	
CPT-2	39386	11/07/2001	80	N	524.2	Vinyl chloride	**0.9**	ug/L	
CPT-2	39388	11/07/2001	80	FD	524.2	1,2,3-Trichloropropane	280	ug/L	
CPT-2	39388	11/07/2001	80	FD	524.2	Benzene	**140**	ug/L	
CPT-2	39388	11/07/2001	80	FD	524.2	1,2-Dichloroethane	**20**	ug/L	
CPT-2	39388	11/07/2001	80	FD	524.2	1,2-Dichloropropane (DCP)	**11000**	ug/L	
CPT-2	39388	11/07/2001	80	FD	524.2	1,3-Dichloropropane	**60**	ug/L	
CPT-2	39388	11/07/2001	80	FD	524.2	1,2-Dibromoethane (EDB)	**9000**	ug/L	
CPT-3	39392	11/08/2001	46	N	524.2	1,2,3-Trichloropropane	40	ug/L	J
CPT-3	39392	11/08/2001	46	N	524.2	1,2-Dichloropropane (DCP)	**740**	ug/L	
CPT-3	39392	11/08/2001	46	N	524.2	1,2-Dichloroethane	2	ug/L	
CPT-3	39392	11/08/2001	46	N	524.2	1,2-Dibromo-3-chloropropane (DBCP)	**3**	ug/L	
CPT-3	39392	11/08/2001	46	N	524.2	1,3-Dichloropropane	**4**	ug/L	
CPT-3	39392	11/08/2001	46	N	524.2	1,2-Dibromoethane (EDB)	**3**	ug/L	
CPT-3	39392	11/08/2001	46	N	524.2	Chlorobenzene	3	ug/L	

Table 3-2
Chemicals Detected in CPT Hydropunch Samples

Location ID	Sample ID	Sample Date	Depth (ft bgs)	QA/QC Type[1]	Method	Analyte	Result[2]	Units	Flag[3]
CPT-3	39392	11/08/2001	46	N	504.1	1,2-Dibromo-3-chloropropane (DBCP)	**2.4**	ug/L	
CPT-3	39392	11/08/2001	46	N	504.1	1,2-Dibromoethane (EDB)	**2.2**	ug/L	
CPT-3	39393	11/08/2001	59	N	504.1	1,2-Dibromoethane (EDB)	**15**	ug/L	J
CPT-3	39393	11/08/2001	59	N	524.2	1,2,3-Trichloropropane	100	ug/L	J
CPT-3	39393	11/08/2001	59	N	524.2	1,1-Dichloroethane	0.7	ug/L	J
CPT-3	39393	11/08/2001	59	N	524.2	Chloroform	0.7	ug/L	J
CPT-3	39393	11/08/2001	59	N	504.1	1,2-Dibromo-3-chloropropane (DBCP)	**6.8**	ug/L	
CPT-3	39393	11/08/2001	59	N	524.2	1,2-Dibromo-3-chloropropane (DBCP)	**9**	ug/L	
CPT-3	39393	11/08/2001	59	N	524.2	1,3-Dichloropropane	**8**	ug/L	
CPT-3	39393	11/08/2001	59	N	524.2	1,2-Dibromoethane (EDB)	**25**	ug/L	
CPT-3	39393	11/08/2001	59	N	524.2	Chlorobenzene	7	ug/L	
CPT-3	39393	11/08/2001	59	N	524.2	1,2-Dichloropropane (DCP)	**2000**	ug/L	
CPT-3	39393	11/08/2001	59	N	524.2	1,2-Dichloroethane	4	ug/L	
CPT-3	39394	11/08/2001	80	N	524.2	1,2-Dibromoethane (EDB)	**1300**	ug/L	J
CPT-3	39394	11/08/2001	80	N	524.2	1,2-Dibromo-3-chloropropane (DBCP)	**300**	ug/L	
CPT-3	39394	11/08/2001	80	N	524.2	1,2,3-Trichloropropane	940	ug/L	
CPT-3	39394	11/08/2001	80	N	524.2	1,3-Dichloropropane	**100**	ug/L	
CPT-3	39394	11/08/2001	80	N	524.2	Benzene	**200**	ug/L	
CPT-3	39394	11/08/2001	80	N	524.2	1,2-Dichloroethane	**40**	ug/L	
CPT-3	39394	11/08/2001	80	N	524.2	1,2-Dichloropropane (DCP)	**20000**	ug/L	
CPT-3	39395	11/08/2001	92	N	524.2	1,2-Dichloroethane	2	ug/L	J
CPT-3	39395	11/08/2001	92	N	524.2	1,3-Dichloropropane	**5**	ug/L	J
CPT-3	39395	11/08/2001	92	N	504.1	1,2-Dibromoethane (EDB)	**19**	ug/L	J
CPT-3	39395	11/08/2001	92	N	504.1	1,2-Dibromo-3-chloropropane (DBCP)	**12**	ug/L	J
CPT-3	39395	11/08/2001	92	N	524.2	1,2-Dichloropropane (DCP)	**900**	ug/L	
CPT-3	39395	11/08/2001	92	N	524.2	1,2-Dibromo-3-chloropropane (DBCP)	**9**	ug/L	
CPT-3	39395	11/08/2001	92	N	524.2	1,2,3-Trichloropropane	30	ug/L	
CPT-3	39395	11/08/2001	92	N	524.2	1,2-Dibromoethane (EDB)	**20**	ug/L	
CPT-4	39398	11/28/2001	45	N	524.2	1,2-Dichloropropane (DCP)	0.6	ug/L	J
CPT-4	39398	11/28/2001	45	N	524.2	1,2-Dichloroethane	0.4	ug/L	J
CPT-4	39398	11/28/2001	45	N	524.2	Chloroform	7	ug/L	
CPT-4	39398	11/28/2001	45	N	524.2	Dichloromethane	2	ug/L	
CPT-4	39398	11/28/2001	45	N	524.2	Carbon tetrachloride (CCL4)	**18**	ug/L	

Table 3-2
Chemicals Detected in CPT Hydropunch Samples

Location ID	Sample ID	Sample Date	Depth (ft bgs)	QA/QC Type[1]	Method	Analyte	Result[2]	Units	Flag[3]
CPT-4	39398	11/28/2001	45	N	504.1	1,2-Dibromoethane (EDB)	**0.05**	ug/L	
CPT-4	39399	11/28/2001	67	N	524.2	1,2-Dichloropropane (DCP)	2	ug/L	
CPT-4	39399	11/28/2001	67	N	524.2	Carbon tetrachloride (CCL4)	**42**	ug/L	
CPT-4	39399	11/28/2001	67	N	524.2	Chloroform	4	ug/L	
CPT-4	39399	11/28/2001	67	N	524.2	1,2-Dichloroethane	**16**	ug/L	
CPT-4	39399	11/28/2001	67	N	504.1	1,2-Dibromoethane (EDB)	0.04	ug/L	
CPT-5	39404	11/28/2001	49	N	524.2	Carbon tetrachloride (CCL4)	**0.8**	ug/L	
CPT-5	39405	11/28/2001	49	FD	524.2	Carbon tetrachloride (CCL4)	**0.8**	ug/L	
CPT-6	39412	11/20/2001	45	N	524.2	Chlorobenzene	0.5	ug/L	J
CPT-6	39412	11/20/2001	45	N	524.2	1,2-Dichloroethane	0.3	ug/L	J
CPT-6	39412	11/20/2001	45	N	504.1	1,2-Dibromoethane (EDB)	**0.29**	ug/L	
CPT-6	39412	11/20/2001	45	N	524.2	1,2,3-Trichloropropane	4	ug/L	
CPT-6	39412	11/20/2001	45	N	524.2	1,2-Dichloropropane (DCP)	**140**	ug/L	
CPT-6	39413	11/20/2001	60	N	524.2	Chlorobenzene	8	ug/L	J
CPT-6	39413	11/20/2001	60	N	524.2	1,2,3-Trichloropropane	150	ug/L	
CPT-6	39413	11/20/2001	60	N	524.2	1,3-Dichloropropane	**10**	ug/L	
CPT-6	39413	11/20/2001	60	N	524.2	1,2-Dibromoethane (EDB)	**1500**	ug/L	
CPT-6	39413	11/20/2001	60	N	524.2	1,2-Dichloroethane	**5**	ug/L	
CPT-6	39413	11/20/2001	60	N	524.2	1,2-Dichloropropane (DCP)	**3000**	ug/L	
CPT-7	39417	11/08/2001	45	N	524.2	Chlorobenzene	10	ug/L	J
CPT-7	39417	11/08/2001	45	N	524.2	1,3-Dichloropropane	**20**	ug/L	
CPT-7	39417	11/08/2001	45	N	524.2	1,2,3-Trichloropropane	100	ug/L	
CPT-7	39417	11/08/2001	45	N	504.1	1,2-Dibromo-3-chloropropane (DBCP)	0.18	ug/L	
CPT-7	39417	11/08/2001	45	N	504.1	1,2-Dibromoethane (EDB)	**7.6**	ug/L	
CPT-7	39417	11/08/2001	45	N	524.2	1,2-Dichloropropane (DCP)	**10000**	ug/L	
CPT-7	39419	11/09/2001	58	N	504.1	1,2-Dibromoethane (EDB)	**34**	ug/L	J
CPT-7	39419	11/09/2001	58	N	524.2	1,3-Dichloropropane	**10**	ug/L	J
CPT-7	39419	11/09/2001	58	N	504.1	1,2-Dibromo-3-chloropropane (DBCP)	**0.42**	ug/L	
CPT-7	39419	11/09/2001	58	N	524.2	1,2,3-Trichloropropane	80	ug/L	
CPT-7	39419	11/09/2001	58	N	524.2	1,2-Dibromoethane (EDB)	**40**	ug/L	
CPT-7	39419	11/09/2001	58	N	524.2	1,2-Dichloropropane (DCP)	**3500**	ug/L	
CPT-7	39420	11/09/2001	58	FD	504.1	1,2-Dibromoethane (EDB)	**27**	ug/L	J
CPT-7	39420	11/09/2001	58	FD	524.2	1,3-Dichloropropane	**10**	ug/L	J

Table 3-2
Chemicals Detected in CPT Hydropunch Samples

Location ID	Sample ID	Sample Date	Depth (ft bgs)	QA/QC Type[1]	Method	Analyte	Result[2]	Units	Flag[3]
CPT-7	39420	11/09/2001	58	FD	504.1	1,2-Dibromo-3-chloropropane (DBCP)	**0.4**	ug/L	
CPT-7	39420	11/09/2001	58	FD	524.2	1,2-Dibromoethane (EDB)	**50**	ug/L	
CPT-7	39420	11/09/2001	58	FD	524.2	1,2,3-Trichloropropane	50	ug/L	
CPT-7	39420	11/09/2001	58	FD	524.2	1,2-Dichloropropane (DCP)	**3600**	ug/L	
CPT-7	39422	11/09/2001	80	N	504.1	1,2-Dibromoethane (EDB)	**24**	ug/L	J
CPT-7	39422	11/09/2001	80	N	524.2	Benzene	0.6	ug/L	J
CPT-7	39422	11/09/2001	80	N	524.2	1,2-Dichloroethane	0.5	ug/L	J
CPT-7	39422	11/09/2001	80	N	524.2	1,3-Dichloropropane	**1**	ug/L	J
CPT-7	39422	11/09/2001	80	N	504.1	1,2-Dibromo-3-chloropropane (DBCP)	**0.26**	ug/L	
CPT-7	39422	11/09/2001	80	N	524.2	1,2,3-Trichloropropane	3	ug/L	
CPT-7	39422	11/09/2001	80	N	524.2	1,2-Dichloropropane (DCP)	**1000**	ug/L	
CPT-7	39422	11/09/2001	80	N	524.2	1,2-Dibromoethane (EDB)	**80**	ug/L	
CPT-8	39425	11/06/2001	46	N	524.2	1,2-Dibromoethane (EDB)	**5**	ug/L	
CPT-8	39425	11/06/2001	46	N	524.2	1,2,3-Trichloropropane	1	ug/L	
CPT-8	39425	11/06/2001	46	N	524.2	1,2-Dichloropropane (DCP)	**53**	ug/L	
CPT-8	39425	11/06/2001	46	N	504.1	1,2-Dibromo-3-chloropropane (DBCP)	0.05	ug/L	
CPT-8	39425	11/06/2001	46	N	504.1	1,2-Dibromoethane (EDB)	**4.2**	ug/L	
CPT-8	39426	11/06/2001	59	N	504.1	1,2-Dibromo-3-chloropropane (DBCP)	0.14	ug/L	J
CPT-8	39426	11/06/2001	59	N	504.1	1,2-Dibromoethane (EDB)	**15**	ug/L	J
CPT-8	39426	11/06/2001	59	N	524.2	Benzene	0.5	ug/L	J
CPT-8	39426	11/06/2001	59	N	524.2	1,2,3-Trichloropropane	2	ug/L	
CPT-8	39426	11/06/2001	59	N	524.2	1,2-Dibromoethane (EDB)	**20**	ug/L	
CPT-8	39426	11/06/2001	59	N	524.2	1,2-Dichloropropane (DCP)	**80**	ug/L	
CPT-9	39431	11/05/2001	45	N	504.1	1,2-Dibromoethane (EDB)	**0.37**	ug/L	
CPT-9	39431	11/05/2001	45	N	504.1	1,2-Dibromo-3-chloropropane (DBCP)	0.19	ug/L	
CPT-9	39431	11/05/2001	45	N	524.2	1,2-Dichloropropane (DCP)	**77**	ug/L	
CPT-9	39431	11/05/2001	45	N	524.2	1,2,3-Trichloropropane	2	ug/L	
CPT-9	39433	11/05/2001	60	N	504.1	1,2-Dibromo-3-chloropropane (DBCP)	0.15	ug/L	
CPT-9	39433	11/05/2001	60	N	504.1	1,2-Dibromoethane (EDB)	**0.96**	ug/L	
CPT-9	39433	11/05/2001	60	N	524.2	1,2-Dichloropropane (DCP)	**65**	ug/L	
CPT-9	39434	11/05/2001	60	FD	524.2	1,2,3-Trichloropropane	4	ug/L	
CPT-9	39434	11/05/2001	60	FD	504.1	1,2-Dibromoethane (EDB)	**1.4**	ug/L	
CPT-9	39434	11/05/2001	60	FD	504.1	1,2-Dibromo-3-chloropropane (DBCP)	**0.21**	ug/L	

Table 3-2
Chemicals Detected in CPT Hydropunch Samples

Location ID	Sample ID	Sample Date	Depth (ft bgs)	QA/QC Type[1]	Method	Analyte	Result[2]	Units	Flag[3]
CPT-9	39434	11/05/2001	60	FD	524.2	1,2-Dichloropropane (DCP)	**70**	ug/L	
CPT-9	39434	11/05/2001	60	FD	524.2	1,2-Dibromoethane (EDB)	**1**	ug/L	
CPT-10	39439	11/02/2001	45	N	504.1	1,2-Dibromo-3-chloropropane (DBCP)	**0.65**	ug/L	
CPT-10	39439	11/02/2001	45	N	504.1	1,2-Dibromoethane (EDB)	**1.5**	ug/L	
CPT-10	39439	11/02/2001	45	N	524.2	1,2-Dichloropropane (DCP)	**170**	ug/L	
CPT-10	39440	11/02/2001	75	N	504.1	1,2-Dibromo-3-chloropropane (DBCP)	**13**	ug/L	J
CPT-10	39440	11/02/2001	75	N	504.1	1,2-Dibromoethane (EDB)	**10**	ug/L	J
CPT-10	39440	11/02/2001	75	N	524.2	1,2-Dichloropropane (DCP)	**3500**	ug/L	
CPT-11	39444	10/31/2001	45	N	524.2	Benzene	0.6	ug/L	J
CPT-11	39444	10/31/2001	45	N	524.2	Chlorobenzene	0.5	ug/L	J
CPT-11	39444	10/31/2001	45	N	524.2	m,p-Xylene	0.7	ug/L	J
CPT-11	39444	10/31/2001	45	N	524.2	1,2-Dichloropropane (DCP)	**73**	ug/L	J
CPT-11	39444	10/31/2001	45	N	504.1	1,2-Dibromo-3-chloropropane (DBCP)	**45**	ug/L	J
CPT-11	39444	10/31/2001	45	N	504.1	1,2-Dibromoethane (EDB)	**21**	ug/L	J
CPT-11	39444	10/31/2001	45	N	524.2	1,2,4-Trimethylbenzene	1	ug/L	
CPT-11	39444	10/31/2001	45	N	524.2	1,2-Dibromo-3-chloropropane (DBCP)	**72**	ug/L	
CPT-11	39444	10/31/2001	45	N	524.2	1,2-Dibromoethane (EDB)	**12**	ug/L	
CPT-11	39444	10/31/2001	45	N	524.2	O-Xylene	2	ug/L	
CPT-11	39444	10/31/2001	45	N	524.2	1,2,3-Trichloropropane	3	ug/L	
CPT-11	39446	11/01/2001	70	N	524.2	Benzene	**4**	ug/L	J
CPT-11	39446	11/01/2001	70	N	524.2	n-Butylbenzene	2	ug/L	J
CPT-11	39446	11/01/2001	70	N	524.2	1,2-Dibromo-3-chloropropane (DBCP)	**800**	ug/L	J
CPT-11	39446	11/01/2001	70	N	524.2	n-Propylbenzene	3	ug/L	J
CPT-11	39446	11/01/2001	70	N	524.2	1,2-Dichloropropane (DCP)	**300**	ug/L	
CPT-11	39446	11/01/2001	70	N	524.2	1,3,5-Trimethylbenzene	6	ug/L	
CPT-11	39446	11/01/2001	70	N	524.2	1,2,4-Trimethylbenzene	30	ug/L	
CPT-11	39446	11/01/2001	70	N	524.2	sec-Butylbenzene	7	ug/L	
CPT-11	39446	11/01/2001	70	N	524.2	Chlorobenzene	20	ug/L	
CPT-11	39446	11/01/2001	70	N	524.2	1,2-Dibromoethane (EDB)	**20**	ug/L	
CPT-11	39446	11/01/2001	70	N	524.2	m,p-Xylene	10	ug/L	
CPT-11	39446	11/01/2001	70	N	524.2	O-Xylene	57	ug/L	
CPT-11	39446	11/01/2001	70	N	524.2	Isopropylbenzene	20	ug/L	
CPT-11	39446	11/01/2001	70	N	524.2	1,2,3-Trichloropropane	30	ug/L	

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Chemicals Detected in CPT Hydropunch Samples

Location ID	Sample ID	Sample Date	Depth (ft bgs)	QA/QC Type[1]	Method	Analyte	Result[2]	Units	Flag[3]
CPT-12	39452	11/21/2001	46	N	524.2	1,2-Dichloropropane (DCP)	2	ug/L	
CPT-12	39453	11/21/2001	82	N	524.2	1,2-Dichloropropane (DCP)	1	ug/L	
CPT-13	39458	11/16/2001	47	N	504.1	1,2-Dibromo-3-chloropropane (DBCP)	0.05	ug/L	
CPT-13	39458	11/16/2001	47	N	504.1	1,2-Dibromoethane (EDB)	**0.1**	ug/L	
CPT-13	39458	11/16/2001	47	N	524.2	1,2-Dichloropropane (DCP)	2	ug/L	
CPT-13	39459	11/16/2001	59	N	504.1	1,2-Dibromoethane (EDB)	**0.19**	ug/L	
CPT-13	39459	11/16/2001	59	N	504.1	1,2-Dibromo-3-chloropropane (DBCP)	0.05	ug/L	
CPT-13	39459	11/16/2001	59	N	524.2	1,2-Dichloropropane (DCP)	2	ug/L	
CPT-14	39468	12/19/2001	112	N	524.2	Dichloromethane	1	ug/L	
CPT-15	39472	11/19/2001	47	N	504.1	1,2-Dibromoethane (EDB)	0.01	ug/L	J
CPT-15	39472	11/19/2001	47	N	524.2	1,2-Dichloropropane (DCP)	1	ug/L	
CPT-18	39490	10/29/2001	48	N	524.2	1,2-Dichloropropane (DCP)	0.9	ug/L	J
CPT-19	39495	10/29/2001	42	N	524.2	1,2-Dichloropropane (DCP)	2	ug/L	
CPT-20	39503	10/24/2001	103	N	504.1	1,2-Dibromoethane (EDB)	**0.52**	ug/L	J
CPT-20	39503	10/24/2001	103	N	524.2	1,2-Dichloropropane (DCP)	**57**	ug/L	
CPT-21	39508	10/18/2001	120	N	524.2	1,2-Dichloropropane (DCP)	**14**	ug/L	
CPT-22	39511	10/19/2001	45	N	524.2	1,2-Dichloropropane (DCP)	0.6	ug/L	J
CPT-22	39511	10/19/2001	45	N	524.2	1,2,3-Trichloropropane	0.5	ug/L	J
CPT-22	39511	10/19/2001	45	N	504.1	1,2-Dibromo-3-chloropropane (DBCP)	0.04	ug/L	
CPT-22	39511	10/19/2001	45	N	504.1	1,2-Dibromoethane (EDB)	**0.06**	ug/L	
CPT-22	39512	10/19/2001	70	N	504.1	1,2-Dibromoethane (EDB)	**23**	ug/L	J
CPT-22	39512	10/19/2001	70	N	504.1	1,2-Dibromo-3-chloropropane (DBCP)	**2**	ug/L	
CPT-22	39512	10/19/2001	70	N	524.2	1,3-Dichloropropane	**1**	ug/L	
CPT-22	39512	10/19/2001	70	N	524.2	1,2-Dibromoethane (EDB)	**40**	ug/L	
CPT-22	39512	10/19/2001	70	N	524.2	1,2-Dichloroethane	0.5	ug/L	
CPT-22	39512	10/19/2001	70	N	524.2	1,2,3-Trichloropropane	12	ug/L	
CPT-22	39512	10/19/2001	70	N	524.2	1,2-Dichloropropane (DCP)	**320**	ug/L	
CPT-22	39512	10/19/2001	70	N	524.2	1,2-Dibromo-3-chloropropane (DBCP)	**2**	ug/L	
CPT-22	39513	10/19/2001	100	N	524.2	Carbon tetrachloride (CCL4)	**1.9**	ug/L	
CPT-23	39515	10/23/2001	48	N	504.1	1,2-Dibromoethane (EDB)	**0.17**	ug/L	
CPT-23	39515	10/23/2001	48	N	524.2	Carbon tetrachloride (CCL4)	**6**	ug/L	
CPT-23	39515	10/23/2001	48	N	524.2	Chloroform	1	ug/L	
CPT-23	39515	10/23/2001	48	N	524.2	1,2-Dichloropropane (DCP)	1	ug/L	

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Location ID	Sample ID	Sample Date	Depth (ft bgs)	QA/QC Type[1]	Method	Analyte	Result[2]	Units	Flag[3]
CPT-23	39517	10/23/2001	75	N	524.2	Dichloromethane	0.9	ug/L	J
CPT-23	39517	10/23/2001	75	N	524.2	Carbon tetrachloride (CCL4)	**1.6**	ug/L	
CPT-23	39518	10/23/2001	75	FD	524.2	Dichloromethane	1	ug/L	
CPT-23	39518	10/23/2001	75	FD	524.2	Carbon tetrachloride (CCL4)	**1.7**	ug/L	
CPT-24	39523	10/24/2001	70	N	524.2	Carbon tetrachloride (CCL4)	**33**	ug/L	
CPT-24	39523	10/24/2001	70	N	524.2	Chloroform	5	ug/L	
CPT-25	39527	10/22/2001	45	N	524.2	Chloroform	4	ug/L	
CPT-25	39527	10/22/2001	45	N	524.2	Carbon tetrachloride (CCL4)	**21**	ug/L	
CPT-25	39528	10/22/2001	74	N	524.2	Chloroform	6	ug/L	
CPT-25	39528	10/22/2001	74	N	524.2	Carbon tetrachloride (CCL4)	**39**	ug/L	
CPT-25	39529	10/22/2001	102	N	524.2	Carbon tetrachloride (CCL4)	**0.5**	ug/L	
CPT-26	39532	10/22/2001	47	N	524.2	1,2-Dichloropropane (DCP)	0.8	ug/L	J
CPT-26	39532	10/22/2001	47	N	524.2	Chloroform	0.8	ug/L	J
CPT-26	39532	10/22/2001	47	N	504.1	1,2-Dibromoethane (EDB)	0.02	ug/L	
CPT-26	39532	10/22/2001	47	N	524.2	Carbon tetrachloride (CCL4)	**2.4**	ug/L	
CPT-26	39533	10/22/2001	70	N	524.2	Chloroform	0.5	ug/L	J
CPT-26	39533	10/22/2001	70	N	524.2	1,2-Dichloroethane	0.3	ug/L	J
CPT-26	39533	10/22/2001	70	N	524.2	Carbon tetrachloride (CCL4)	**5.3**	ug/L	
CPT-26	39533	10/22/2001	70	N	524.2	1,2-Dichloropropane (DCP)	1	ug/L	
CPT-26	39535	10/22/2001	100	N	524.2	Chloroform	0.5	ug/L	J
CPT-26	39535	10/22/2001	100	N	524.2	Carbon tetrachloride (CCL4)	**0.6**	ug/L	
CPT-26	39536	10/22/2001	100	FD	524.2	Chloroform	0.5	ug/L	J
CPT-26	39536	10/22/2001	100	FD	524.2	Carbon tetrachloride (CCL4)	**0.6**	ug/L	
CPT-27	39538	10/23/2001	45	N	524.2	Chloroform	0.8	ug/L	J
CPT-27	39538	10/23/2001	45	N	524.2	Carbon tetrachloride (CCL4)	**3.7**	ug/L	
CPT-27	39539	10/23/2001	67	N	524.2	Carbon tetrachloride (CCL4)	**9.9**	ug/L	
CPT-27	39539	10/23/2001	67	N	524.2	Chloroform	2	ug/L	
CPT-28	39543	11/29/2001	46	N	524.2	1,2-Dichloropropane (DCP)	2	ug/L	
CPT-28	39544	11/29/2001	67	N	524.2	1,2-Dichloropropane (DCP)	0.8	ug/L	J
CPT-28	39545	11/30/2001	85	N	504.1	1,2-Dibromo-3-chloropropane (DBCP)	0.11	ug/L	
CPT-32	39566	11/27/2001	45	N	524.2	1,2-Dibromoethane (EDB)	**0.7**	ug/L	J
CPT-32	39566	11/27/2001	45	N	524.2	1,2-Dichloropropane (DCP)	**4**	ug/L	
CPT-32	39566	11/27/2001	45	N	504.1	1,2-Dibromoethane (EDB)	**0.51**	ug/L	

Table 3-2
Chemicals Detected in CPT Hydropunch Samples

Location ID	Sample ID	Sample Date	Depth (ft bgs)	QA/QC Type[1]	Method	Analyte	Result[2]	Units	Flag[3]
CPT-32	39566	11/27/2001	45	N	504.1	1,2-Dibromo-3-chloropropane (DBCP)	0.09	ug/L	
CPT-32	39567	11/27/2001	70	N	524.2	1,2-Dibromo-3-chloropropane (DBCP)	**10**	ug/L	J
CPT-32	39567	11/27/2001	70	N	524.2	1,2,3-Trichloropropane	210	ug/L	
CPT-32	39567	11/27/2001	70	N	524.2	1,2-Dibromoethane (EDB)	**250**	ug/L	
CPT-32	39567	11/27/2001	70	N	524.2	Benzene	**20**	ug/L	
CPT-32	39567	11/27/2001	70	N	524.2	1,2-Dichloroethane	**10**	ug/L	
CPT-32	39567	11/27/2001	70	N	524.2	1,2-Dichloropropane (DCP)	**5900**	ug/L	
CPT-32	39567	11/27/2001	70	N	524.2	1,3-Dichloropropane	**20**	ug/L	
CPT-32	39569	11/27/2001	115	N	524.2	1,2-Dichloropropane (DCP)	0.9	ug/L	J
CPT-34	39576	12/20/2001	46	N	504.1	1,2-Dibromoethane (EDB)	**0.05**	ug/L	
CPT-34	39576	12/20/2001	46	N	524.2	1,2-Dichloropropane (DCP)	**13**	ug/L	
CPT-34	39577	12/20/2001	46	FD	504.1	1,2-Dibromoethane (EDB)	**0.05**	ug/L	
CPT-34	39577	12/20/2001	46	FD	524.2	1,2-Dichloropropane (DCP)	**14**	ug/L	
CPT-34	39578	12/20/2001	113	N	524.2	1,2-Dichloropropane (DCP)	0.5	ug/L	J
CPT-37	39840	11/13/2001	55	N	524.2	Carbon tetrachloride (CCL4)	**0.7**	ug/L	J
CPT-38	39846	11/14/2001	117	N	504.1	1,2-Dibromo-3-chloropropane (DBCP)	0.01	ug/L	J
CPT-38	39846	11/14/2001	117	N	524.2	Benzene	0.8	ug/L	J
CPT-38	39846	11/14/2001	117	N	524.2	Toluene	0.6	ug/L	J
CPT-39	39851	11/13/2001	92	N	504.1	1,2-Dibromo-3-chloropropane (DBCP)	0.02	ug/L	
CPT-40	39853	11/12/2001	78	N	504.1	1,2-Dibromo-3-chloropropane (DBCP)	0.01	ug/L	J
CPT-40	39854	11/12/2001	96	N	504.1	1,2-Dibromo-3-chloropropane (DBCP)	0.06	ug/L	
CPT-40	39856	11/12/2001	106	N	504.1	1,2-Dibromo-3-chloropropane (DBCP)	0.01	ug/L	J
CPT-40	39857	11/12/2001	116	N	504.1	1,2-Dibromo-3-chloropropane (DBCP)	0.03	ug/L	
CPT-40	39857	11/12/2001	116	N	524.2	1,2-Dichloropropane (DCP)	2	ug/L	
CPT-41	39858	12/19/2001	45	N	524.2	1,2-Dichloroethane	0.4	ug/L	J
CPT-41	39858	12/19/2001	45	N	504.1	1,2-Dibromoethane (EDB)	0.03	ug/L	
CPT-41	39858	12/19/2001	45	N	524.2	Carbon tetrachloride (CCL4)	**7.6**	ug/L	
CPT-41	39858	12/19/2001	45	N	524.2	Chloroform	2	ug/L	
CPT-41	39859	12/19/2001	45	FD	524.2	1,2-Dichloroethane	0.4	ug/L	J
CPT-41	39859	12/19/2001	45	FD	504.1	1,2-Dibromoethane (EDB)	0.04	ug/L	
CPT-41	39859	12/19/2001	45	FD	524.2	Carbon tetrachloride (CCL4)	**7.8**	ug/L	
CPT-41	39859	12/19/2001	45	FD	524.2	Chloroform	2	ug/L	
CPT-41	39860	12/19/2001	57	N	524.2	1,2,3-Trichloropropane	0.7	ug/L	J

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Location ID	Sample ID	Sample Date	Depth (ft bgs)	QA/QC Type[1]	Method	Analyte	Result[2]	Units	Flag[3]
CPT-41	39860	12/19/2001	57	N	504.1	1,2-Dibromoethane (EDB)	**0.09**	ug/L	
CPT-41	39860	12/19/2001	57	N	524.2	1,2-Dichloropropane (DCP)	3	ug/L	
CPT-41	39860	12/19/2001	57	N	524.2	Chloroform	7	ug/L	
CPT-41	39860	12/19/2001	57	N	524.2	Carbon tetrachloride (CCL4)	**200**	ug/L	
CPT-41	39860	12/19/2001	57	N	524.2	1,2-Dichloroethane	**23**	ug/L	
CPT-41	39860	12/19/2001	57	N	524.2	Dichloromethane	2	ug/L	
CPT-41	39861	12/19/2001	67	N	524.2	Carbon tetrachloride (CCL4)	**130**	ug/L	
CPT-41	39861	12/19/2001	67	N	524.2	Chloroform	3	ug/L	
CPT-41	39861	12/19/2001	67	N	524.2	1,2-Dichloroethane	**20**	ug/L	
CPT-41	39861	12/19/2001	67	N	524.2	1,2-Dichloropropane (DCP)	**4**	ug/L	
CPT-50	CPT50-2	04/01/2002	65	N	524.2	Carbon tetrachloride (CCL4)	0.4	ug/L	J
CPT-50	CPT50-2	04/01/2002	65	N	524.2	1,2-Dichloropropane (DCP)	0.7	ug/L	J
CPT-51	CPT51-1	04/01/2002	46	N	524.2	Carbon tetrachloride (CCL4)	**19**	ug/L	
CPT-51	CPT51-1	04/01/2002	46	N	524.2	Chloroform	15	ug/L	
CPT-51	CPT51-3	04/01/2002	69	N	524.2	Chloroform	3	ug/L	
CPT-51	CPT51-3	04/01/2002	69	N	524.2	Carbon tetrachloride (CCL4)	**17**	ug/L	
CPT-54	CPT54-1	04/03/2002	43	N	524.2	1,2,3-Trichloropropane	0.6	ug/L	J
CPT-54	CPT54-1	04/03/2002	43	N	524.2	1,2-Dibromoethane (EDB)	**0.6**	ug/L	J
CPT-54	CPT54-1	04/03/2002	43	N	504.1	1,2-Dibromoethane (EDB)	**0.75**	ug/L	
CPT-54	CPT54-1	04/03/2002	43	N	504.1	1,2-Dibromo-3-chloropropane (DBCP)	0.18	ug/L	
CPT-54	CPT54-1	04/03/2002	43	N	524.2	1,2-Dichloropropane (DCP)	2	ug/L	
CPT-54	CPT54-2	04/03/2002	68	N	504.1	1,2-Dibromoethane (EDB)	**36**	ug/L	J
CPT-54	CPT54-2	04/03/2002	68	N	524.2	1,2-Dichloropropane (DCP)	**800**	ug/L	
CPT-54	CPT54-2	04/03/2002	68	N	524.2	1,2-Dichloroethane	1.3	ug/L	
CPT-54	CPT54-2	04/03/2002	68	N	504.1	1,2-Dibromo-3-chloropropane (DBCP)	**0.98**	ug/L	
CPT-54	CPT54-2	04/03/2002	68	N	524.2	1,3-Dichloropropane	**1**	ug/L	
CPT-54	CPT54-2	04/03/2002	68	N	524.2	1,2-Dibromoethane (EDB)	**60**	ug/L	
CPT-54	CPT54-2	04/03/2002	68	N	524.2	1,2,3-Trichloropropane	15	ug/L	
CPT-54	CPT54-3	04/03/2002	102	N	524.2	1,2-Dichloropropane (DCP)	**19**	ug/L	
CPT-54	CPT54-3	04/03/2002	102	N	504.1	1,2-Dibromoethane (EDB)	**0.2**	ug/L	
CPT-54	CPT54-5	04/03/2002	115	N	504.1	1,2-Dibromoethane (EDB)	**0.12**	ug/L	
CPT-54	CPT54-5	04/03/2002	115	N	524.2	1,2-Dichloropropane (DCP)	2	ug/L	
CPT-56	CPT56-1	04/05/2002	42	N	524.2	Chloroform	0.8	ug/L	J

Table 3-2
Chemicals Detected in CPT Hydropunch Samples

Location ID	Sample ID	Sample Date	Depth (ft bgs)	QA/QC Type[1]	Method	Analyte	Result[2]	Units	Flag[3]
CPT-56	CPT56-1	04/05/2002	42	N	524.2	Carbon tetrachloride (CCL4)	**1.9**	ug/L	
CPT-56	CPT56-2	04/05/2002	42	FD	524.2	Chloroform	0.8	ug/L	J
CPT-56	CPT56-2	04/05/2002	42	FD	524.2	Carbon tetrachloride (CCL4)	**2**	ug/L	
CPT-56	CPT56-4	04/05/2002	65	N	524.2	1,2-Dichloroethane	1.6	ug/L	
CPT-56	CPT56-4	04/05/2002	65	N	524.2	Carbon tetrachloride (CCL4)	**3.7**	ug/L	
CPT-56	CPT56-4	04/05/2002	65	N	524.2	1,2-Dichloropropane (DCP)	1	ug/L	
CPT-56	CPT56-5	04/05/2002	97	N	524.2	Dichloromethane	0.7	ug/L	J
CPT-56	CPT56-5	04/05/2002	97	N	524.2	Chloroform	0.5	ug/L	J
CPT-56	CPT56-5	04/05/2002	97	N	524.2	Carbon tetrachloride (CCL4)	**1.6**	ug/L	
CPT-58	CPT58-1	04/03/2002	41	N	524.2	Carbon tetrachloride (CCL4)	**0.5**	ug/L	

Notes:

1. QA/QC Type:

N = sample

FD = field duplicate

2. Bolded result indicates exceedance of MCL, see Table 2-1.

3. Lab Flag Description:

J = The amount detected is less than the quantitation limit and is only an estimated value.

Table 3-3
CPT Soil Sample Collection and Analyses

Location ID	Sample ID	Depth (ft bgs)	QA/QC Type[1]	Sample Date	Method
CPT-1	39620	5	N	11/09/2001	8260B
CPT-1	39622	10	N	11/09/2001	8260B
CPT-1	39623	10	FD	11/09/2001	8260B
CPT-1	39624	15	N	11/09/2001	8260B
CPT-1	39625	20	N	11/09/2001	8260B
CPT-1	39626	25	N	11/09/2001	8260B
CPT-1	39627	30	N	11/09/2001	8260B
CPT-2	39629	5	N	11/07/2001	8260A
CPT-2	39630	10	N	11/07/2001	8260A
CPT-2	39631	15	N	11/07/2001	8260A
CPT-2	39632	20	N	11/07/2001	8260A
CPT-2	39633	25	N	11/07/2001	8260A
CPT-2	39634	25	FD	11/07/2001	8260A
CPT-2	39635	30	N	11/07/2001	8260A
CPT-3	39637	5	N	11/08/2001	8260A
CPT-3	39638	10	N	11/08/2001	8260A
CPT-3	39639	15	N	11/08/2001	8260A
CPT-3	39640	20	N	11/08/2001	8260A
CPT-3	39641	25	N	11/08/2001	8260A
CPT-3	39642	30	N	11/08/2001	8260A
CPT-6	39658	5	N	11/19/2001	8260B
CPT-6	39659	5	FD	11/19/2001	8260B
CPT-6	39660	10	N	11/19/2001	8260B
CPT-6	39662	15	N	11/19/2001	8260B
CPT-6	39663	20	N	11/19/2001	8260B
CPT-6	39664	25	N	11/19/2001	8260B
CPT-6	39665	30	N	11/19/2001	8260B
CPT-7	39666	5	N	11/08/2001	8260B
CPT-7	39667	10	N	11/08/2001	8260B
CPT-7	39668	15	N	11/08/2001	8260B
CPT-7	39669	20	N	11/08/2001	8260B
CPT-7	39670	25	N	11/08/2001	8260B
CPT-7	39671	30	N	11/08/2001	8260B
CPT-8	39672	5	N	11/06/2001	8260A
CPT-8	39673	5	FD	11/06/2001	8260A
CPT-8	39674	10	N	11/06/2001	8260A
CPT-8	39676	15	N	11/06/2001	8260A
CPT-8	39677	20	N	11/06/2001	8260A
CPT-8	39678	25	N	11/06/2001	8260A
CPT-8	39679	30	N	11/06/2001	8260A
CPT-9	39681	5	N	11/05/2001	8260A
CPT-9	39682	10	N	11/05/2001	8260A
CPT-9	39683	10	FD	11/05/2001	8260A
CPT-9	39684	15	N	11/05/2001	8260A
CPT-9	39685	20	N	11/05/2001	8260A
CPT-9	39686	25	N	11/05/2001	8260A
CPT-9	39687	30	N	11/05/2001	8260A
CPT-10	39688	5	N	11/01/2001	8260A

Table 3-3
CPT Soil Sample Collection and Analyses

Location ID	Sample ID	Depth (ft bgs)	QA/QC Type[1]	Sample Date	Method
CPT-10	39689	10	N	11/01/2001	8260A
CPT-10	39690	15	N	11/01/2001	8260A
CPT-10	39691	20	N	11/01/2001	8260A
CPT-10	39692	25	N	11/01/2001	8260A
CPT-10	39693	25	FD	11/01/2001	8260A
CPT-10	39694	30	N	11/01/2001	8260A
CPT-11	39696	5	N	10/31/2001	8260A
CPT-11	39698	15	N	10/31/2001	8260A
CPT-11	39699	20	N	10/31/2001	8260A
CPT-11	39700	25	N	10/31/2001	8260A
CPT-11	39701	30	N	10/31/2001	8260A
CPT-12	39703	5	N	11/20/2001	8260B
CPT-12	39704	10	N	11/20/2001	8260B
CPT-12	39705	10	FD	11/20/2001	8260B
CPT-12	39706	15	N	11/20/2001	8260B
CPT-12	39708	20	N	11/20/2001	8260B
CPT-12	39709	25	N	11/20/2001	8260B
CPT-12	39710	30	N	11/20/2001	8260B
CPT-13	39711	5	N	11/15/2001	8260B
CPT-13	39712	10	N	11/15/2001	8260B
CPT-13	39713	15	N	11/15/2001	8260B
CPT-13	39714	20	N	11/15/2001	8260B
CPT-13	39715	25	N	11/15/2001	8260B
CPT-13	39716	30	N	11/15/2001	8260B
CPT-15	39726	5	N	11/19/2001	8260B
CPT-15	39727	10	N	11/19/2001	8260B
CPT-15	39729	15	N	11/19/2001	8260B
CPT-15	39730	20	N	11/19/2001	8260B
CPT-15	39731	25	N	11/19/2001	8260B
CPT-15	39732	30	N	11/19/2001	8260B

Notes:
1. QA/QC Type:
N = sample
FD = field duplicate

Table 3-4
Chemicals Detected in CPT Soil Samples

Location ID	Sample ID	Sample Date	Depth (ft bgs)	QA/QC Type[1]	Method	Analyte	Result[2]	Units	Flag[3]
CPT-1	39620	11/09/2001	5	N	8260B	1,2-Dibromoethane (EDB)	20	ug/Kg	J
CPT-1	39620	11/09/2001	5	N	8260B	1,2,3-Trichloropropane	**10**	ug/Kg	J
CPT-1	39620	11/09/2001	5	N	8260B	Acetone	50	ug/Kg	
CPT-1	39620	11/09/2001	5	N	8260B	1,2-Dichloropropane (DCP)	30	ug/Kg	
CPT-1	39623	11/09/2001	10	FD	8260B	Acetone	10	ug/Kg	
CPT-1	39625	11/09/2001	20	N	8260B	Bromoform	5	ug/Kg	J
CPT-1	39625	11/09/2001	20	N	8260B	1,2,3-Trichloropropane	**9**	ug/Kg	
CPT-1	39625	11/09/2001	20	N	8260B	Acetone	10	ug/Kg	
CPT-1	39626	11/09/2001	25	N	8260B	1,2,3-Trichloropropane	**10**	ug/Kg	
CPT-1	39626	11/09/2001	25	N	8260B	Bromoform	10	ug/Kg	
CPT-1	39627	11/09/2001	30	N	8260B	1,2,3-Trichloropropane	**300**	ug/Kg	J
CPT-1	39627	11/09/2001	30	N	8260B	Chlorobenzene	4	ug/Kg	J
CPT-1	39627	11/09/2001	30	N	8260B	1,2-Dibromoethane (EDB)	**500**	ug/Kg	J
CPT-1	39627	11/09/2001	30	N	8260B	Benzene	9	ug/Kg	
CPT-1	39627	11/09/2001	30	N	8260B	1,2-Dichloroethane	10	ug/Kg	
CPT-1	39627	11/09/2001	30	N	8260B	1,3-Dichloropropane	20	ug/Kg	
CPT-1	39627	11/09/2001	30	N	8260B	1,2-Dichloropropane (DCP)	**4000**	ug/Kg	
CPT-2	39629	11/07/2001	5	N	8260A	Acetone	9	ug/Kg	J
CPT-2	39630	11/07/2001	10	N	8260A	Acetone	20	ug/Kg	
CPT-2	39631	11/07/2001	15	N	8260A	1,2,3-Trichloropropane	**5**	ug/Kg	J
CPT-2	39631	11/07/2001	15	N	8260A	Acetone	8	ug/Kg	
CPT-2	39632	11/07/2001	20	N	8260A	1,2,3-Trichloropropane	**8**	ug/Kg	J
CPT-2	39632	11/07/2001	20	N	8260A	Acetone	30	ug/Kg	
CPT-2	39633	11/07/2001	25	N	8260A	1,2,3-Trichloropropane	**10**	ug/Kg	
CPT-2	39633	11/07/2001	25	N	8260A	Acetone	40	ug/Kg	
CPT-2	39634	11/07/2001	25	FD	8260A	Acetone	6	ug/Kg	J
CPT-2	39634	11/07/2001	25	FD	8260A	1,2,3-Trichloropropane	**8**	ug/Kg	
CPT-2	39635	11/07/2001	30	N	8260A	1,3-Dichloropropane	6	ug/Kg	J
CPT-2	39635	11/07/2001	30	N	8260A	1,2,3-Trichloropropane	**110**	ug/Kg	
CPT-2	39635	11/07/2001	30	N	8260A	1,2-Dichloropropane (DCP)	**1000**	ug/Kg	
CPT-2	39635	11/07/2001	30	N	8260A	1,2-Dibromoethane (EDB)	**130**	ug/Kg	
CPT-2	39635	11/07/2001	30	N	8260A	Acetone	9	ug/Kg	

Table 3-4
Chemicals Detected in CPT Soil Samples

Location ID	Sample ID	Sample Date	Depth (ft bgs)	QA/QC Type[1]	Method	Analyte	Result[2]	Units	Flag[3]
CPT-2	39635	11/07/2001	30	N	8260A	1,2-Dichloroethane	10	ug/Kg	
CPT-3	39637	11/08/2001	5	N	8260A	Acetone	30	ug/Kg	
CPT-3	39638	11/08/2001	10	N	8260A	Acetone	10	ug/Kg	
CPT-3	39641	11/08/2001	25	N	8260A	1,2,3-Trichloropropane	**8**	ug/Kg	J
CPT-3	39641	11/08/2001	25	N	8260A	1,2-Dichloropropane (DCP)	100	ug/Kg	
CPT-3	39642	11/08/2001	30	N	8260A	1,2,3-Trichloropropane	**7**	ug/Kg	J
CPT-3	39642	11/08/2001	30	N	8260A	1,2-Dichloropropane (DCP)	110	ug/Kg	
CPT-6	39658	11/19/2001	5	N	8260B	Acetone	10	ug/Kg	
CPT-6	39659	11/19/2001	5	FD	8260B	Acetone	10	ug/Kg	
CPT-6	39660	11/19/2001	10	N	8260B	Acetone	5	ug/Kg	J
CPT-6	39664	11/19/2001	25	N	8260B	Acetone	8	ug/Kg	J
CPT-6	39664	11/19/2001	25	N	8260B	1,2-Dichloropropane (DCP)	20	ug/Kg	
CPT-6	39665	11/19/2001	30	N	8260B	Acetone	10	ug/Kg	J
CPT-6	39665	11/19/2001	30	N	8260B	1,2-Dichloropropane (DCP)	10	ug/Kg	
CPT-7	39666	11/08/2001	5	N	8260B	Acetone	10	ug/Kg	
CPT-7	39667	11/08/2001	10	N	8260B	Acetone	7	ug/Kg	J
CPT-7	39668	11/08/2001	15	N	8260B	Acetone	20	ug/Kg	
CPT-7	39668	11/08/2001	15	N	8260B	1,2,3-Trichloropropane	**10**	ug/Kg	
CPT-7	39669	11/08/2001	20	N	8260B	1,2,3-Trichloropropane	**9**	ug/Kg	
CPT-7	39670	11/08/2001	25	N	8260B	1,2,3-Trichloropropane	**600**	ug/Kg	J
CPT-7	39670	11/08/2001	25	N	8260B	1,2-Dichloropropane (DCP)	**5000**	ug/Kg	
CPT-7	39670	11/08/2001	25	N	8260B	Benzene	10	ug/Kg	
CPT-7	39670	11/08/2001	25	N	8260B	1,2-Dichloroethane	40	ug/Kg	
CPT-7	39670	11/08/2001	25	N	8260B	Chlorobenzene	9	ug/Kg	
CPT-7	39670	11/08/2001	25	N	8260B	1,2-Dibromoethane (EDB)	**2000**	ug/Kg	
CPT-7	39670	11/08/2001	25	N	8260B	1,3-Dichloropropane	80	ug/Kg	
CPT-7	39670	11/08/2001	25	N	8260B	Bromoform	20	ug/Kg	
CPT-7	39670	11/08/2001	25	N	8260B	Acetone	40	ug/Kg	
CPT-7	39671	11/08/2001	30	N	8260B	1,2,3-Trichloropropane	**300**	ug/Kg	J
CPT-7	39671	11/08/2001	30	N	8260B	1,2-Dibromoethane (EDB)	**700**	ug/Kg	J
CPT-7	39671	11/08/2001	30	N	8260B	Bromoform	20	ug/Kg	
CPT-7	39671	11/08/2001	30	N	8260B	Acetone	20	ug/Kg	

Table 3-4
Chemicals Detected in CPT Soil Samples

Location ID	Sample ID	Sample Date	Depth (ft bgs)	QA/QC Type[1]	Method	Analyte	Result[2]	Units	Flag[3]
CPT-7	39671	11/08/2001	30	N	8260B	1,2-Dichloroethane	30	ug/Kg	
CPT-7	39671	11/08/2001	30	N	8260B	Chlorobenzene	10	ug/Kg	
CPT-7	39671	11/08/2001	30	N	8260B	1,3-Dichloropropane	60	ug/Kg	
CPT-7	39671	11/08/2001	30	N	8260B	1,2-Dichloropropane (DCP)	**6000**	ug/Kg	
CPT-7	39671	11/08/2001	30	N	8260B	Benzene	50	ug/Kg	
CPT-8	39674	11/06/2001	10	N	8260A	1,2,3-Trichloropropane	**9**	ug/Kg	
CPT-8	39674	11/06/2001	10	N	8260A	1,2-Dichloropropane (DCP)	150	ug/Kg	
CPT-8	39676	11/06/2001	15	N	8260A	1,2-Dibromoethane (EDB)	**600**	ug/Kg	J
CPT-8	39676	11/06/2001	15	N	8260A	1,2-Dichloropropane (DCP)	500	ug/Kg	J
CPT-8	39676	11/06/2001	15	N	8260A	1,2,3-Trichloropropane	**30**	ug/Kg	
CPT-8	39676	11/06/2001	15	N	8260A	1,2-Dibromo-3-chloropropane (DBCP)	20	ug/Kg	
CPT-8	39677	11/06/2001	20	N	8260A	1,2-Dichloropropane (DCP)	700	ug/Kg	J
CPT-8	39677	11/06/2001	20	N	8260A	Benzene	8	ug/Kg	J
CPT-8	39677	11/06/2001	20	N	8260A	1,2-Dichloroethane	5	ug/Kg	J
CPT-8	39677	11/06/2001	20	N	8260A	1,2-Dibromoethane (EDB)	**1000**	ug/Kg	
CPT-8	39677	11/06/2001	20	N	8260A	1,2-Dibromo-3-chloropropane (DBCP)	30	ug/Kg	
CPT-8	39677	11/06/2001	20	N	8260A	1,2,3-Trichloropropane	**40**	ug/Kg	
CPT-8	39678	11/06/2001	25	N	8260A	1,3-Dichloropropane	9	ug/Kg	J
CPT-8	39678	11/06/2001	25	N	8260A	Acetone	10	ug/Kg	
CPT-8	39678	11/06/2001	25	N	8260A	1,2-Dichloropropane (DCP)	**2000**	ug/Kg	
CPT-8	39678	11/06/2001	25	N	8260A	Benzene	10	ug/Kg	
CPT-8	39678	11/06/2001	25	N	8260A	1,2-Dichloroethane	10	ug/Kg	
CPT-8	39678	11/06/2001	25	N	8260A	1,2-Dibromo-3-chloropropane (DBCP)	**93**	ug/Kg	
CPT-8	39678	11/06/2001	25	N	8260A	1,2,3-Trichloropropane	**80**	ug/Kg	
CPT-8	39678	11/06/2001	25	N	8260A	1,2-Dibromoethane (EDB)	**5000**	ug/Kg	
CPT-8	39679	11/06/2001	30	N	8260A	1,2-Dibromo-3-chloropropane (DBCP)	**90**	ug/Kg	J
CPT-8	39679	11/06/2001	30	N	8260A	1,2,3-Trichloropropane	**160**	ug/Kg	J
CPT-8	39679	11/06/2001	30	N	8260A	Bromoform	8	ug/Kg	J
CPT-8	39679	11/06/2001	30	N	8260A	Chlorobenzene	7	ug/Kg	J
CPT-8	39679	11/06/2001	30	N	8260A	1,2-Dichloropropane (DCP)	**4000**	ug/Kg	
CPT-8	39679	11/06/2001	30	N	8260A	Benzene	30	ug/Kg	
CPT-8	39679	11/06/2001	30	N	8260A	1,2-Dichloroethane	20	ug/Kg	

Table 3-4
Chemicals Detected in CPT Soil Samples

Location ID	Sample ID	Sample Date	Depth (ft bgs)	QA/QC Type[1]	Method	Analyte	Result[2]	Units	Flag[3]
CPT-8	39679	11/06/2001	30	N	8260A	1,2-Dibromoethane (EDB)	**8000**	ug/Kg	
CPT-8	39679	11/06/2001	30	N	8260A	1,3-Dichloropropane	20	ug/Kg	
CPT-8	39679	11/06/2001	30	N	8260A	Acetone	20	ug/Kg	
CPT-9	39681	11/05/2001	5	N	8260A	m,p-Xylene	6	ug/Kg	J
CPT-9	39681	11/05/2001	5	N	8260A	1,2-Dichloropropane (DCP)	**2000**	ug/Kg	J
CPT-9	39681	11/05/2001	5	N	8260A	1,2,3-Trichloropropane	**2000**	ug/Kg	J
CPT-9	39681	11/05/2001	5	N	8260A	1,2-Dibromo-3-chloropropane (DBCP)	9	ug/Kg	J
CPT-9	39681	11/05/2001	5	N	8260A	O-Xylene	6	ug/Kg	J
CPT-9	39681	11/05/2001	5	N	8260A	Chlorobenzene	130	ug/Kg	
CPT-9	39682	11/05/2001	10	N	8260A	1,2-Dibromo-3-chloropropane (DBCP)	5	ug/Kg	J
CPT-9	39682	11/05/2001	10	N	8260A	1,2-Dichloroethane	6	ug/Kg	J
CPT-9	39682	11/05/2001	10	N	8260A	Chlorobenzene	100	ug/Kg	
CPT-9	39682	11/05/2001	10	N	8260A	m,p-Xylene	10	ug/Kg	
CPT-9	39682	11/05/2001	10	N	8260A	O-Xylene	10	ug/Kg	
CPT-9	39682	11/05/2001	10	N	8260A	1,2,3-Trichloropropane	**2000**	ug/Kg	
CPT-9	39682	11/05/2001	10	N	8260A	Benzene	10	ug/Kg	
CPT-9	39682	11/05/2001	10	N	8260A	1,2-Dichloropropane (DCP)	**9100**	ug/Kg	
CPT-9	39683	11/05/2001	10	FD	8260A	1,2-Dibromo-3-chloropropane (DBCP)	6	ug/Kg	J
CPT-9	39683	11/05/2001	10	FD	8260A	Acetone	20	ug/Kg	
CPT-9	39683	11/05/2001	10	FD	8260A	O-Xylene	20	ug/Kg	
CPT-9	39683	11/05/2001	10	FD	8260A	m,p-Xylene	20	ug/Kg	
CPT-9	39683	11/05/2001	10	FD	8260A	Chlorobenzene	150	ug/Kg	
CPT-9	39683	11/05/2001	10	FD	8260A	1,2,3-Trichloropropane	**2000**	ug/Kg	
CPT-9	39683	11/05/2001	10	FD	8260A	1,2-Dichloropropane (DCP)	**8000**	ug/Kg	
CPT-9	39683	11/05/2001	10	FD	8260A	Benzene	20	ug/Kg	
CPT-9	39683	11/05/2001	10	FD	8260A	1,2-Dichloroethane	20	ug/Kg	
CPT-9	39684	11/05/2001	15	N	8260A	m,p-Xylene	5	ug/Kg	J
CPT-9	39684	11/05/2001	15	N	8260A	O-Xylene	6	ug/Kg	J
CPT-9	39684	11/05/2001	15	N	8260A	1,2-Dibromo-3-chloropropane (DBCP)	4	ug/Kg	J
CPT-9	39684	11/05/2001	15	N	8260A	1,2-Dibromoethane (EDB)	6	ug/Kg	J
CPT-9	39684	11/05/2001	15	N	8260A	1,2,3-Trichloropropane	**2000**	ug/Kg	
CPT-9	39684	11/05/2001	15	N	8260A	Chlorobenzene	80	ug/Kg	

Table 3-4
Chemicals Detected in CPT Soil Samples

Location ID	Sample ID	Sample Date	Depth (ft bgs)	QA/QC Type[1]	Method	Analyte	Result[2]	Units	Flag[3]
CPT-9	39684	11/05/2001	15	N	8260A	1,2-Dichloropropane (DCP)	**14000**	ug/Kg	
CPT-9	39684	11/05/2001	15	N	8260A	1,2-Dichloroethane	20	ug/Kg	
CPT-9	39684	11/05/2001	15	N	8260A	Benzene	20	ug/Kg	
CPT-9	39685	11/05/2001	20	N	8260A	1,2-Dibromo-3-chloropropane (DBCP)	5	ug/Kg	J
CPT-9	39685	11/05/2001	20	N	8260A	Benzene	20	ug/Kg	
CPT-9	39685	11/05/2001	20	N	8260A	1,2-Dichloropropane (DCP)	**11000**	ug/Kg	
CPT-9	39685	11/05/2001	20	N	8260A	1,2-Dichloroethane	50	ug/Kg	
CPT-9	39685	11/05/2001	20	N	8260A	1,2,3-Trichloropropane	**1000**	ug/Kg	
CPT-9	39685	11/05/2001	20	N	8260A	Chlorobenzene	50	ug/Kg	
CPT-9	39685	11/05/2001	20	N	8260A	1,2-Dibromoethane (EDB)	**50**	ug/Kg	
CPT-9	39686	11/05/2001	25	N	8260A	Chlorobenzene	7	ug/Kg	J
CPT-9	39686	11/05/2001	25	N	8260A	Benzene	5	ug/Kg	J
CPT-9	39686	11/05/2001	25	N	8260A	1,2,3-Trichloropropane	**140**	ug/Kg	
CPT-9	39686	11/05/2001	25	N	8260A	1,2-Dibromoethane (EDB)	**60**	ug/Kg	
CPT-9	39686	11/05/2001	25	N	8260A	1,2-Dichloropropane (DCP)	**2000**	ug/Kg	
CPT-9	39686	11/05/2001	25	N	8260A	1,2-Dichloroethane	10	ug/Kg	
CPT-9	39687	11/05/2001	30	N	8260A	1,2-Dichloropropane (DCP)	**900**	ug/Kg	J
CPT-9	39687	11/05/2001	30	N	8260A	Acetone	10	ug/Kg	
CPT-9	39687	11/05/2001	30	N	8260A	1,2-Dibromoethane (EDB)	30	ug/Kg	
CPT-9	39687	11/05/2001	30	N	8260A	1,2-Dibromo-3-chloropropane (DBCP)	40	ug/Kg	
CPT-10	39688	11/01/2001	5	N	8260A	1,2-Dibromo-3-chloropropane (DBCP)	**500**	ug/Kg	J
CPT-10	39688	11/01/2001	5	N	8260A	1,2-Dibromoethane (EDB)	**140**	ug/Kg	
CPT-10	39688	11/01/2001	5	N	8260A	1,2,3-Trichloropropane	**30**	ug/Kg	
CPT-10	39688	11/01/2001	5	N	8260A	1,2-Dichloropropane (DCP)	40	ug/Kg	
CPT-10	39689	11/01/2001	10	N	8260A	1,2-Dibromo-3-chloropropane (DBCP)	**600**	ug/Kg	J
CPT-10	39689	11/01/2001	10	N	8260A	1,2-Dibromoethane (EDB)	**300**	ug/Kg	J
CPT-10	39689	11/01/2001	10	N	8260A	O-Xylene	20	ug/Kg	
CPT-10	39689	11/01/2001	10	N	8260A	1,2,3-Trichloropropane	**50**	ug/Kg	
CPT-10	39689	11/01/2001	10	N	8260A	1,2-Dichloroethane	20	ug/Kg	
CPT-10	39689	11/01/2001	10	N	8260A	1,2-Dichloropropane (DCP)	100	ug/Kg	
CPT-10	39690	11/01/2001	15	N	8260A	1,2-Dibromo-3-chloropropane (DBCP)	**300**	ug/Kg	J
CPT-10	39690	11/01/2001	15	N	8260A	1,2-Dibromoethane (EDB)	**600**	ug/Kg	J

Table 3-4
Chemicals Detected in CPT Soil Samples

Location ID	Sample ID	Sample Date	Depth (ft bgs)	QA/QC Type[1]	Method	Analyte	Result[2]	Units	Flag[3]
CPT-10	39690	11/01/2001	15	N	8260A	1,2-Dichloroethane	10	ug/Kg	
CPT-10	39690	11/01/2001	15	N	8260A	1,2-Dichloropropane (DCP)	80	ug/Kg	
CPT-10	39690	11/01/2001	15	N	8260A	1,2,3-Trichloropropane	**20**	ug/Kg	
CPT-10	39690	11/01/2001	15	N	8260A	O-Xylene	9	ug/Kg	
CPT-10	39691	11/01/2001	20	N	8260A	1,2-Dichloroethane	10	ug/Kg	
CPT-10	39691	11/01/2001	20	N	8260A	1,2-Dichloropropane (DCP)	60	ug/Kg	
CPT-10	39691	11/01/2001	20	N	8260A	1,2-Dibromoethane (EDB)	**1000**	ug/Kg	
CPT-10	39691	11/01/2001	20	N	8260A	1,2,3-Trichloropropane	**10**	ug/Kg	
CPT-10	39691	11/01/2001	20	N	8260A	1,2-Dibromo-3-chloropropane (DBCP)	**150**	ug/Kg	
CPT-10	39692	11/01/2001	25	N	8260A	1,2-Dibromo-3-chloropropane (DBCP)	**97**	ug/Kg	
CPT-10	39692	11/01/2001	25	N	8260A	1,2-Dibromoethane (EDB)	8	ug/Kg	
CPT-10	39693	11/01/2001	25	FD	8260A	1,2-Dibromoethane (EDB)	6	ug/Kg	J
CPT-10	39693	11/01/2001	25	FD	8260A	1,2-Dibromo-3-chloropropane (DBCP)	**80**	ug/Kg	
CPT-10	39694	11/01/2001	30	N	8260A	1,2-Dibromoethane (EDB)	4	ug/Kg	J
CPT-10	39694	11/01/2001	30	N	8260A	1,2-Dibromo-3-chloropropane (DBCP)	**60**	ug/Kg	
CPT-11	39698	10/31/2001	15	N	8260A	1,2-Dichloropropane (DCP)	**1000**	ug/Kg	
CPT-11	39698	10/31/2001	15	N	8260A	Acetone	20	ug/Kg	
CPT-11	39699	10/31/2001	20	N	8260A	Benzene	5	ug/Kg	J
CPT-11	39699	10/31/2001	20	N	8260A	O-Xylene	7	ug/Kg	J
CPT-11	39699	10/31/2001	20	N	8260A	1,2-Dibromoethane (EDB)	7	ug/Kg	J
CPT-11	39699	10/31/2001	20	N	8260A	1,2-Dichloropropane (DCP)	**2000**	ug/Kg	
CPT-11	39699	10/31/2001	20	N	8260A	1,2,3-Trichloropropane	**50**	ug/Kg	
CPT-11	39699	10/31/2001	20	N	8260A	Chlorobenzene	20	ug/Kg	
CPT-11	39699	10/31/2001	20	N	8260A	Acetone	30	ug/Kg	
CPT-11	39699	10/31/2001	20	N	8260A	1,2-Dibromo-3-chloropropane (DBCP)	20	ug/Kg	
CPT-11	39700	10/31/2001	25	N	8260A	Trichloroethene	6	ug/Kg	J
CPT-11	39700	10/31/2001	25	N	8260A	Benzene	700	ug/Kg	J
CPT-11	39700	10/31/2001	25	N	8260A	Chloroform	6	ug/Kg	J
CPT-11	39700	10/31/2001	25	N	8260A	1,1-Dichloroethane	8	ug/Kg	J
CPT-11	39700	10/31/2001	25	N	8260A	Ethylbenzene	500	ug/Kg	J
CPT-11	39700	10/31/2001	25	N	8260A	1,3-Dichloropropane	700	ug/Kg	J
CPT-11	39700	10/31/2001	25	N	8260A	Carbon tetrachloride (CCL4)	20	ug/Kg	

Table 3-4
Chemicals Detected in CPT Soil Samples

Location ID	Sample ID	Sample Date	Depth (ft bgs)	QA/QC Type[1]	Method	Analyte	Result[2]	Units	Flag[3]
CPT-11	39700	10/31/2001	25	N	8260A	1,2-Dichloroethane	50	ug/Kg	
CPT-11	39700	10/31/2001	25	N	8260A	1,2-Dichloropropane (DCP)	**90000**	ug/Kg	
CPT-11	39700	10/31/2001	25	N	8260A	O-Xylene	**4000**	ug/Kg	
CPT-11	39700	10/31/2001	25	N	8260A	1,2-Dibromo-3-chloropropane (DBCP)	**1000000**	ug/Kg	
CPT-11	39700	10/31/2001	25	N	8260A	1,2-Dichlorobenzene	30	ug/Kg	
CPT-11	39700	10/31/2001	25	N	8260A	1,4-Dichlorobenzene	30	ug/Kg	
CPT-11	39700	10/31/2001	25	N	8260A	1,3-Dichlorobenzene	20	ug/Kg	
CPT-11	39700	10/31/2001	25	N	8260A	1,2,3-Trichloropropane	**10000**	ug/Kg	
CPT-11	39700	10/31/2001	25	N	8260A	m,p-Xylene	**2000**	ug/Kg	
CPT-11	39700	10/31/2001	25	N	8260A	Chlorobenzene	1000	ug/Kg	
CPT-11	39700	10/31/2001	25	N	8260A	Toluene	140	ug/Kg	
CPT-11	39700	10/31/2001	25	N	8260A	Bromoform	20	ug/Kg	
CPT-11	39700	10/31/2001	25	N	8260A	Tetrachloroethene	30	ug/Kg	
CPT-11	39700	10/31/2001	25	N	8260A	1,2-Dibromoethane (EDB)	**50000**	ug/Kg	
CPT-11	39701	10/31/2001	30	N	8260A	1,2-Dichloroethane	8	ug/Kg	J
CPT-11	39701	10/31/2001	30	N	8260A	Chloroform	5	ug/Kg	J
CPT-11	39701	10/31/2001	30	N	8260A	1,2-Dichlorobenzene	8	ug/Kg	J
CPT-11	39701	10/31/2001	30	N	8260A	1,3-Dichlorobenzene	7	ug/Kg	J
CPT-11	39701	10/31/2001	30	N	8260A	1,2,3-Trichloropropane	**700**	ug/Kg	J
CPT-11	39701	10/31/2001	30	N	8260A	Benzene	180	ug/Kg	J
CPT-11	39701	10/31/2001	30	N	8260A	1,2-Dibromoethane (EDB)	**1000**	ug/Kg	J
CPT-11	39701	10/31/2001	30	N	8260A	m,p-Xylene	900	ug/Kg	J
CPT-11	39701	10/31/2001	30	N	8260A	1,2-Dichloropropane (DCP)	**2000**	ug/Kg	
CPT-11	39701	10/31/2001	30	N	8260A	Acetone	10	ug/Kg	
CPT-11	39701	10/31/2001	30	N	8260A	Chlorobenzene	150	ug/Kg	
CPT-11	39701	10/31/2001	30	N	8260A	1,2-Dibromo-3-chloropropane (DBCP)	**40000**	ug/Kg	
CPT-11	39701	10/31/2001	30	N	8260A	1,4-Dichlorobenzene	10	ug/Kg	
CPT-11	39701	10/31/2001	30	N	8260A	O-Xylene	**2000**	ug/Kg	
CPT-11	39701	10/31/2001	30	N	8260A	Ethylbenzene	50	ug/Kg	
CPT-11	39701	10/31/2001	30	N	8260A	1,3-Dichloropropane	110	ug/Kg	
CPT-11	39701	10/31/2001	30	N	8260A	Toluene	8	ug/Kg	
CPT-12	39704	11/20/2001	10	N	8260B	Acetone	10	ug/Kg	

Table 3-4
Chemicals Detected in CPT Soil Samples

Location ID	Sample ID	Sample Date	Depth (ft bgs)	QA/QC Type[1]	Method	Analyte	Result[2]	Units	Flag[3]
CPT-13	39711	11/15/2001	5	N	8260B	Acetone	20	ug/Kg	
CPT-13	39712	11/15/2001	10	N	8260B	Acetone	10	ug/Kg	
CPT-13	39713	11/15/2001	15	N	8260B	Carbon Disulfide	10	ug/Kg	
CPT-13	39713	11/15/2001	15	N	8260B	Acetone	10	ug/Kg	
CPT-13	39714	11/15/2001	20	N	8260B	Acetone	7	ug/Kg	J
CPT-13	39715	11/15/2001	25	N	8260B	Acetone	7	ug/Kg	J
CPT-13	39715	11/15/2001	25	N	8260B	1,2-Dichloropropane (DCP)	10	ug/Kg	
CPT-13	39716	11/15/2001	30	N	8260B	Acetone	10	ug/Kg	
CPT-13	39716	11/15/2001	30	N	8260B	Carbon Disulfide	20	ug/Kg	
CPT-15	39725	11/19/2001	5	N	8260B	Acetone	30	ug/Kg	J
CPT-15	39725	11/19/2001	5	N	8260B	Chloroform	50	ug/Kg	
CPT-15	39726	11/19/2001	5	N	8260B	2-Butanone	9	ug/Kg	J
CPT-15	39726	11/19/2001	5	N	8260B	Acetone	50	ug/Kg	J
CPT-15	39726	11/19/2001	5	N	8260B	Chloroform	60	ug/Kg	
CPT-15	39727	11/19/2001	10	N	8260B	Acetone	8	ug/Kg	J
CPT-15	39727	11/19/2001	10	N	8260B	Chloroform	10	ug/Kg	

Notes:

1. QA/QC Type:

N = sample

FD = field duplicate

2. Bolded result indicates exceedance of Industrial Soil PRG, see Table 2-1.

3. Lab Flag Description:

J = The amount detected is less than the quantitation limit and is only an estimated value.

TABLE 3-5
CPT SOIL GAS SAMPLE AND ANALYSES

Location ID	Sample ID	Sample Date	Sample Depth (feet)	QA/QC Type[1]	Method
CPT-1	39790	11/09/2001	10	N	TO-15
	39792	11/09/2001	10	EB	TO-15
	39793	11/09/2001	20	N	TO-15
	39795	11/09/2001	20	FD	TO-15
CPT-2	39796	11/07/2001	10	N	TO-15
	39797	11/07/2001	20	N	TO-15
	39798	11/07/2001	20	FB	TO-15
CPT-3	39799	11/08/2001	10	N	TO-15
	39800	11/08/2001	20	N	TO-15
CPT-6	39805	11/19/2001	10	N	TO-15
	39806	11/19/2001	10	FD	TO-15
	39807	11/19/2001	20	N	TO-15
CPT-7	39809	11/08/2001	10	N	TO-15
	39810	11/08/2001	20	N	TO-15
CPT-8	39811	11/06/2001	10	N	TO-15
	39812	11/06/2001	20	N	TO-15
CPT-9	39813	11/05/2001	10	N	TO-15
	39814	11/05/2001	20	N	TO-15
CPT-10	39815	11/01/2001	10	N	TO-15
	39816	11/01/2001	20	N	TO-15
CPT-11	39817	10/31/2001	10	N	TO-15
	39818	10/31/2001	20	N	TO-15
	39819	10/31/2001	20	FD	TO-15
CPT-12	39820	11/20/2001	10	N	TO-15
	39821	11/20/2001	10	EB	TO-15
	39822	11/20/2001	20	N	TO-15
CPT-13	39823	11/15/2001	10	N	TO-15
	39825	11/15/2001	20	N	TO-15
CPT-15	39828	11/19/2001	10	N	TO-15
	39829	11/19/2001	20	N	TO-15
CPT-34	39826	12/20/2001	10	N	TO-15
	39827	12/20/2001	20	N	TO-15

1. QA/QC Type:
N = sample
EB = equipment blank
FD = field duplicate

TABLE 3-6
Chemicals Detected in CPT Soil Gas Samples

Location ID	Sample ID	Method	QA/QC Type[1]	Analyte	Result (ppbv)	Flag[2]	Depth
CPT-1	39790	TO-15	N	Trichlorofluoromethane	1.3		10
CPT-1	39790	TO-15	N	Acetone	59.0		10
CPT-1	39790	TO-15	N	1,1-Dichloroethene	0.3		10
CPT-1	39790	TO-15	N	Methylene Chloride	1.8		10
CPT-1	39790	TO-15	N	Carbon Disulfide	8.5		10
CPT-1	39790	TO-15	N	trans-1,2-Dichloroethene	0.8		10
CPT-1	39790	TO-15	N	methyl tert butyl ether	4.9		10
CPT-1	39790	TO-15	N	2-Butanone	31.0		10
CPT-1	39790	TO-15	N	1,2-Dichloroethane	5.3		10
CPT-1	39790	TO-15	N	Benzene	2.0		10
CPT-1	39790	TO-15	N	Toluene	2.4		10
CPT-1	39790	TO-15	N	1,2-Dibromoethane	0.4		10
CPT-1	39790	TO-15	N	Ethylbenzene	0.4		10
CPT-1	39790	TO-15	N	m & p-Xylene	1.0		10
CPT-1	39790	TO-15	N	Styrene	0.7		10
CPT-1	39790	TO-15	N	o-Xylene	0.4		10
CPT-1	39790	TO-15	N	1,2,4-Trichlorobenzene	1.0		10
CPT-1	39793	TO-15	N	Chloromethane	1.7		20
CPT-1	39793	TO-15	N	Acrolein	0.8		20
CPT-1	39793	TO-15	N	Trichlorofluoromethane	0.6		20
CPT-1	39793	TO-15	N	Acetone	17.5		20
CPT-1	39793	TO-15	N	trans-1,2-Dichloroethene	0.5		20
CPT-1	39793	TO-15	N	methyl tert butyl ether	1.7		20
CPT-1	39793	TO-15	N	Vinyl acetate	2.0		20
CPT-1	39793	TO-15	N	Benzene	1.2		20
CPT-1	39793	TO-15	N	1,2-Dichloropropane	15.6		20
CPT-1	39793	TO-15	N	Toluene	2.1		20
CPT-1	39793	TO-15	N	1,1,2-Trichloroethane	1.4		20
CPT-1	39793	TO-15	N	Ethylbenzene	0.4		20
CPT-1	39793	TO-15	N	1,2,4-Trichlorobenzene	1.6		20
CPT-1	39795	TO-15	FD	Chloromethane	1.3		20
CPT-1	39795	TO-15	FD	Vinyl chloride	0.6		20
CPT-1	39795	TO-15	FD	Acrolein	0.8		20
CPT-1	39795	TO-15	FD	Trichlorofluoromethane	0.7		20
CPT-1	39795	TO-15	FD	Acetone	14.8		20
CPT-1	39795	TO-15	FD	methyl tert butyl ether	1.0		20
CPT-1	39795	TO-15	FD	cis-1,2-Dichloroethene	0.4		20
CPT-1	39795	TO-15	FD	Benzene	0.5		20
CPT-1	39795	TO-15	FD	1,2-Dichloropropane	1.5		20
CPT-1	39795	TO-15	FD	Toluene	1.2		20
CPT-1	39795	TO-15	FD	Ethylbenzene	0.4		20
CPT-1	39795	TO-15	FD	m & p-Xylene	0.8		20
CPT-2	39796	TO-15	N	Dichlorodifluoromethane	1.1		10
CPT-2	39796	TO-15	N	Acetone	3.6		10
CPT-2	39796	TO-15	N	Carbon disulfide	4.3		10
CPT-2	39796	TO-15	N	Vinyl acetate	3.2		10
CPT-2	39796	TO-15	N	2-Butanone	2.7		10
CPT-2	39796	TO-15	N	1,1-Dichloropropene	11.5		10

TABLE 3-6
Chemicals Detected in CPT Soil Gas Samples

Location ID	Sample ID	Method	QA/QC Type[1]	Analyte	Result (ppbv)	Flag[2]	Depth
CPT-2	39796	TO-15	N	Toluene	0.9		10
CPT-2	39796	TO-15	N	m & p-Xylene	1.3		10
CPT-2	39796	TO-15	N	Styrene	0.5		10
CPT-2	39796	TO-15	N	o-Xylene	0.5		10
CPT-2	39796	TO-15	N	4-Ethyltoluene	0.9		10
CPT-2	39796	TO-15	N	1,3,5-Trimethylbenzene	0.4		10
CPT-2	39796	TO-15	N	1,2,4-Trimethylbenzene	1.4		10
CPT-2	39796	TO-15	N	Benzyl chloride	0.6		10
CPT-2	39797	TO-15	N	Acetone	7.7		20
CPT-2	39797	TO-15	N	Vinyl acetate	3.8		20
CPT-2	39797	TO-15	N	2-Butanone	3.4		20
CPT-2	39797	TO-15	N	Benzene	0.5		20
CPT-2	39797	TO-15	N	Toluene	1.3		20
CPT-2	39797	TO-15	N	m & p-Xylene	1.8		20
CPT-2	39797	TO-15	N	Styrene	0.8		20
CPT-2	39797	TO-15	N	o-Xylene	0.7		20
CPT-2	39797	TO-15	N	4-Ethyltoluene	1.1		20
CPT-2	39797	TO-15	N	1,3,5-Trimethylbenzene	0.6		20
CPT-2	39797	TO-15	N	1,2,4-Trimethylbenzene	1.8		20
CPT-2	39797	TO-15	N	Benzyl chloride	0.6		20
CPT-3	39799	TO-15	N	Acrolein	0.79		10
CPT-3	39799	TO-15	N	Acetone	13.18		10
CPT-3	39799	TO-15	N	Toluene	0.44		10
CPT-3	39800	TO-15	N	Acrolein	0.36		20
CPT-3	39800	TO-15	N	Acetone	13.48		20
CPT-3	39800	TO-15	N	Benzene	0.38		20
CPT-3	39800	TO-15	N	1,2-Dichloropropane	1.77		20
CPT-3	39800	TO-15	N	Toluene	0.57		20
CPT-3	39800	TO-15	N	Ethylbenzene	0.41		20
CPT-6	39805	TO-15	N	Chloromethane	0.6		10
CPT-6	39805	TO-15	N	Trichlorofluoromethane	0.4		10
CPT-6	39805	TO-15	N	Acetone	6.2		10
CPT-6	39805	TO-15	N	Methyl tert butyl ether	0.4		10
CPT-6	39805	TO-15	N	Vinyl acetate	2.1		10
CPT-6	39805	TO-15	N	Benzene	0.4		10
CPT-6	39805	TO-15	N	Toluene	0.6		10
CPT-6	39805	TO-15	N	m & p-Xylene	1.0		10
CPT-6	39805	TO-15	N	4-Ethyltoluene	1.4		10
CPT-6	39805	TO-15	N	1,3,5-Trimethylbenzene	0.4		10
CPT-6	39805	TO-15	N	1,2,4-Trimethylbenzene	1.4		10
CPT-6	39805	TO-15	N	Benzyl chloride	0.5		10
CPT-6	39806	TO-15	FD	Chloromethane	0.4		10
CPT-6	39806	TO-15	FD	Acetone	25.6		10
CPT-6	39806	TO-15	FD	Methyl tert butyl ether	0.4		10
CPT-6	39806	TO-15	FD	Vinyl acetate	5.9		10
CPT-6	39806	TO-15	FD	2-Butanone	3.2		10
CPT-6	39806	TO-15	FD	Benzene	1.2		10
CPT-6	39806	TO-15	FD	n-Heptane	2.2		10

TABLE 3-6
Chemicals Detected in CPT Soil Gas Samples

Location ID	Sample ID	Method	QA/QC Type[1]	Analyte	Result (ppbv)	Flag[2]	Depth
CPT-6	39806	TO-15	FD	Toluene	0.9		10
CPT-6	39806	TO-15	FD	m & p-Xylene	1.1		10
CPT-6	39806	TO-15	FD	o-Xylene	0.4		10
CPT-6	39806	TO-15	FD	4-Ethyltoluene	2.0		10
CPT-6	39806	TO-15	FD	1,3,5-Trimethylbenzene	0.4		10
CPT-6	39806	TO-15	FD	1,2,4-Trimethylbenzene	1.5		10
CPT-6	39806	TO-15	FD	Benzyl chloride	0.6		10
CPT-6	39807	TO-15	N	Chloromethane	0.5		20
CPT-6	39807	TO-15	N	Acetone	22.7		20
CPT-6	39807	TO-15	N	Vinyl acetate	14.5		20
CPT-6	39807	TO-15	N	Benzene	0.5		20
CPT-6	39807	TO-15	N	Toluene	1.0		20
CPT-6	39807	TO-15	N	2-Hexanone	5.2		20
CPT-6	39807	TO-15	N	m & p-Xylene	1.4		20
CPT-6	39807	TO-15	N	o-Xylene	0.4		20
CPT-6	39807	TO-15	N	4-Ethyltoluene	2.3		20
CPT-6	39807	TO-15	N	1,3,5-Trimethylbenzene	0.5		20
CPT-6	39807	TO-15	N	1,2,4-Trimethylbenzene	2.0		20
CPT-7	39809	TO-15	N	Dichlorodifluoromethane	1.0		10
CPT-7	39809	TO-15	N	Chloromethane	0.4		10
CPT-7	39809	TO-15	N	Acrolein	0.6		10
CPT-7	39809	TO-15	N	Acetone	13.1		10
CPT-7	39809	TO-15	N	Benzene	0.6		10
CPT-7	39809	TO-15	N	Toluene	0.9		10
CPT-7	38910	TO-15	N	Dichlorodifluoromethane	0.5		20
CPT-7	38910	TO-15	N	Acetone	8.3		20
CPT-7	38910	TO-15	N	Methyl tert butyl ether	1.7		20
CPT-7	38910	TO-15	N	Benzene	0.3		20
CPT-7	38910	TO-15	N	Toluene	0.7		20
CPT-7	38910	TO-15	N	m & p-Xylene	0.6		20
CPT-7	38910	TO-15	N	Styrene	0.3		20
CPT-7	38910	TO-15	N	1,3,5-Trimethylbenzene	0.3		20
CPT-8	39811	TO-15	N	Dichlorodifluoromethane	0.7		10
CPT-8	39811	TO-15	N	Chloromethane	0.5		10
CPT-8	39811	TO-15	N	Acetone	37.1		10
CPT-8	39811	TO-15	N	Methyl tert butyl ether	2.4		10
CPT-8	39811	TO-15	N	2-Butanone	11.4		10
CPT-8	39811	TO-15	N	Benzene	1.2		10
CPT-8	39811	TO-15	N	Toluene	4.4		10
CPT-8	39811	TO-15	N	Ethylbenzene	0.9		10
CPT-8	39811	TO-15	N	m & p-Xylene	4.7		10
CPT-8	39811	TO-15	N	Styrene	0.9		10
CPT-8	39811	TO-15	N	o-Xylene	1.6		10
CPT-8	39811	TO-15	N	4-Ethyltoluene	3.3		10
CPT-8	39811	TO-15	N	1,3,5-Trimethylbenzene	1.2		10
CPT-8	39811	TO-15	N	1,2,4-Trimethylbenzene	3.3		10
CPT-8	39811	TO-15	N	1,3-Dichlorobenzene	0.9		10
CPT-8	39811	TO-15	N	1,4-Dichlorobenzene	0.8		10

TABLE 3-6
Chemicals Detected in CPT Soil Gas Samples

Location ID	Sample ID	Method	QA/QC Type[1]	Analyte	Result (ppbv)	Flag[2]	Depth
CPT-8	39811	TO-15	N	1,2-Dichlorobenzene	0.7		10
CPT-8	39811	TO-15	N	1,2,4-Trichlorobenzene	2.7	B	10
CPT-8	39812	TO-15	N	Chloromethane	0.4		20
CPT-8	39812	TO-15	N	Acetone	9.5		20
CPT-8	39812	TO-15	N	Methyl tert butyl ether	1.9		20
CPT-8	39812	TO-15	N	Vinyl acetate	4.5		20
CPT-8	39812	TO-15	N	2-Butanone	3.9		20
CPT-8	39812	TO-15	N	Chloroform	0.7		20
CPT-8	39812	TO-15	N	1,2-Dichloroethane	7.2		20
CPT-8	39812	TO-15	N	1,1-Dichloropropene	11.9		20
CPT-8	39812	TO-15	N	Benzene	2.1		20
CPT-8	39812	TO-15	N	1,2-Dichloropropane	144.9		20
CPT-8	39812	TO-15	N	Toluene	3.4		20
CPT-8	39812	TO-15	N	1,2-Dibromoethane	5.0		20
CPT-8	39812	TO-15	N	Ethylbenzene	0.6		20
CPT-8	39812	TO-15	N	m & p-Xylene	3.0		20
CPT-8	39812	TO-15	N	Styrene	0.7		20
CPT-8	39812	TO-15	N	o-Xylene	1.1		20
CPT-8	39812	TO-15	N	4-Ethyltoluene	2.7		20
CPT-8	39812	TO-15	N	1,3,5-Trimethylbenzene	0.8		20
CPT-8	39812	TO-15	N	1,2,4-Trimethylbenzene	2.2		20
CPT-8	39812	TO-15	N	Benzyl chloride	0.7		20
CPT-9	39813	TO-15	N	Chloromethane	0.4		10
CPT-9	39813	TO-15	N	Acetone	4.4		10
CPT-9	39813	TO-15	N	Methyl tert butyl ether	0.4		10
CPT-9	39813	TO-15	N	Vinyl acetate	2.2		10
CPT-9	39813	TO-15	N	2-Butanone	1.8		10
CPT-9	39813	TO-15	N	Benzene	0.5		10
CPT-9	39813	TO-15	N	1,2-Dichloropropane	23.2		10
CPT-9	39813	TO-15	N	Toluene	1.7		10
CPT-9	39813	TO-15	N	Chlorobenzene	0.6		10
CPT-9	39813	TO-15	N	m & p-Xylene	0.8		10
CPT-9	39813	TO-15	N	Styrene	0.5		10
CPT-9	39813	TO-15	N	o-Xylene	0.4		10
CPT-9	39813	TO-15	N	4-Ethyltoluene	1.0		10
CPT-9	39813	TO-15	N	1,3,5-Trimethylbenzene	0.4		10
CPT-9	39813	TO-15	N	1,2,4-Trimethylbenzene	1.2		10
CPT-9	39813	TO-15	N	Benzyl chloride	0.6		10
CPT-9	39814	TO-15	N	Allyl chloride	79.0		20
CPT-9	39814	TO-15	N	Methylene chloride	15.2		20
CPT-9	39814	TO-15	N	Benzene	71.0		20
CPT-9	39814	TO-15	N	1,2-Dichloropropane	11366.2		20
CPT-9	39814	TO-15	N	1,3-Dichloropropane	25.7		20
CPT-9	39814	TO-15	N	Chlorobenzene	132.8		20
CPT-9	39814	TO-15	N	m & p-Xylene	21.8		20
CPT-9	39814	TO-15	N	4-Ethyltoluene	31.3		20
CPT-9	39814	TO-15	N	1,2,4-Trimethylbenzene	21.9		20
CPT-10	39815	TO-15	N	m & p-Xylene	7.5		10

TABLE 3-6
Chemicals Detected in CPT Soil Gas Samples

Location ID	Sample ID	Method	QA/QC Type[1]	Analyte	Result (ppbv)	Flag[2]	Depth
CPT-10	39815	TO-15	N	1,3,5-Trimethylbenzene	3.8		10
CPT-10	39815	TO-15	N	1,2,4-Trimethylbenzene	4.0		10
CPT-10	39815	TO-15	N	1,3-Dichlorobenzene	4.8		10
CPT-10	39815	TO-15	N	1,4-Dichlorobenzene	6.1		10
CPT-10	39815	TO-15	N	1,2,4-Trichlorobenzene	8.3	B	10
CPT-10	39816	TO-15	N	1,2-Dichloroethane	24.4		20
CPT-10	39816	TO-15	N	1,2-Dichloropropane	174.8		20
CPT-10	39816	TO-15	N	Toluene	5.5		20
CPT-10	39816	TO-15	N	1,2-Dibromoethane	106.3		20
CPT-10	39816	TO-15	N	m & p-Xylene	11.3		20
CPT-10	39816	TO-15	N	Styrene	3.8		20
CPT-10	39816	TO-15	N	o-Xylene	21.9		20
CPT-10	39816	TO-15	N	4-Ethyltoluene	4.0		20
CPT-10	39816	TO-15	N	1,3,5-Trimethylbenzene	6.4		20
CPT-10	39816	TO-15	N	1,2,4-Trimethylbenzene	8.7		20
CPT-10	39816	TO-15	N	1,3-Dichlorobenzene	4.5		20
CPT-10	39816	TO-15	N	1,4-Dichlorobenzene	4.3		20
CPT-10	39816	TO-15	N	1,2,4-Trichlorobenzene	5.2	B	20
CPT-11	39817	TO-15	N	Ethylbenzene	8.7		10
CPT-11	39817	TO-15	N	m & p-Xylene	20.2		10
CPT-11	39817	TO-15	N	Styrene	8.4		10
CPT-11	39817	TO-15	N	o-Xylene	8.8		10
CPT-11	39817	TO-15	N	1,2,4-Trimethylbenzene	7.9		10
CPT-11	39817	TO-15	N	1,3-Dichlorobenzene	12.6		10
CPT-11	39817	TO-15	N	1,4-Dichlorobenzene	11.8		10
CPT-11	39817	TO-15	N	1,2-Dichlorobenzene	9.3		10
CPT-11	39817	TO-15	N	1,2,4-Trichlorobenzene	21.2	B	10
CPT-11	39818	TO-15	N	1,2-Dichloropropane	303.4		20
CPT-11	39818	TO-15	N	m & p-Xylene	39.5		20
CPT-11	39818	TO-15	N	Styrene	15.2		20
CPT-11	39818	TO-15	N	o-Xylene	17.1		20
CPT-11	39818	TO-15	N	1,3,5-Trimethylbenzene	15.4		20
CPT-11	39818	TO-15	N	1,2,4-Trimethylbenzene	19.6		20
CPT-11	39818	TO-15	N	1,3-Dichlorobenzene	22.6		20
CPT-11	39818	TO-15	N	1,4-Dichlorobenzene	23.0		20
CPT-11	39818	TO-15	N	1,2-Dichlorobenzene	18.5		20
CPT-11	39818	TO-15	N	1,2,4-Trichlorobenzene	40.3	B	20
CPT-11	39819	TO-15	FD	1,2-Dichloropropane	287.2		20
CPT-11	39819	TO-15	FD	m & p-Xylene	38.1		20
CPT-11	39819	TO-15	FD	Styrene	19.4		20
CPT-11	39819	TO-15	FD	o-Xylene	17.8		20
CPT-11	39819	TO-15	FD	1,2,4-Trimethylbenzene	17.5		20
CPT-11	39819	TO-15	FD	1,3-Dichlorobenzene	29.9		20
CPT-11	39819	TO-15	FD	1,4-Dichlorobenzene	23.5		20
CPT-11	39819	TO-15	FD	1,2-Dichlorobenzene	22.7		20
CPT-11	39819	TO-15	FD	1,2,4-Trichlorobenzene	32.5	B	20
CPT-12	39820	TO-15	N	Chloromethane	1.1		10
CPT-12	39820	TO-15	N	Trichlorofluoromethane	0.7		10

TABLE 3-6
Chemicals Detected in CPT Soil Gas Samples

Location ID	Sample ID	Method	QA/QC Type[1]	Analyte	Result (ppbv)	Flag[2]	Depth
CPT-12	39820	TO-15	N	Acetone	22.0		10
CPT-12	39820	TO-15	N	trans-1,2-Dichloroethene	0.9		10
CPT-12	39820	TO-15	N	Methyl tert butyl ether	1.4		10
CPT-12	39820	TO-15	N	Benzene	0.7		10
CPT-12	39820	TO-15	N	Toluene	2.3		10
CPT-12	39820	TO-15	N	m & p-Xylene	1.3		10
CPT-12	39820	TO-15	N	o-Xylene	0.6		10
CPT-12	39820	TO-15	N	4-Ethyltoluene	0.8		10
CPT-12	39820	TO-15	N	1,3,5-Trimethylbenzene	0.5		10
CPT-12	39820	TO-15	N	1,2,4-Trimethylbenzene	0.8		10
CPT-12	39820	TO-15	N	1,3-Dichlorobenzene	0.5		10
CPT-12	39820	TO-15	N	1,4-Dichlorobenzene	0.4		10
CPT-12	39820	TO-15	N	1,2,4-Trichlorobenzene	2.0	B	10
CPT-12	39822	TO-15	N	Chloromethane	2.0		20
CPT-12	39822	TO-15	N	Trichlorofluoromethane	0.7		20
CPT-12	39822	TO-15	N	Acetone	29.1		20
CPT-12	39822	TO-15	N	Methylene chloride	0.6		20
CPT-12	39822	TO-15	N	trans-1,2-Dichloroethene	0.4		20
CPT-12	39822	TO-15	N	Methyl tert butyl ether	1.1		20
CPT-12	39822	TO-15	N	cis-1,2-Dichloroethene	0.5		20
CPT-12	39822	TO-15	N	Benzene	0.9		20
CPT-12	39822	TO-15	N	Toluene	2.6		20
CPT-12	39822	TO-15	N	Tetrachloroethene	0.7		20
CPT-12	39822	TO-15	N	m & p-Xylene	0.9		20
CPT-13	39823	TO-15	N	Dichlorodifluoromethane	0.4		10
CPT-13	39823	TO-15	N	Chloromethane	0.6		10
CPT-13	39823	TO-15	N	Acetone	4.8		10
CPT-13	39823	TO-15	N	Benzene	0.8		10
CPT-13	39823	TO-15	N	Toluene	1.0		10
CPT-13	39823	TO-15	N	Tetrachloroethene	0.9		10
CPT-13	39823	TO-15	N	m & p-Xylene	0.9		10
CPT-13	39823	TO-15	N	4-Ethyltoluene	1.6		10
CPT-13	39823	TO-15	N	1,3,5-Trimethylbenzene	0.5		10
CPT-13	39823	TO-15	N	1,2,4-Trimethylbenzene	1.5		10
CPT-13	39823	TO-15	N	Benzyl chloride	1.7		10
CPT-13	39823	TO-15	N	1,2,4-Trichlorobenzene	0.8	B	10
CPT-13	39825	TO-15	N	Dichlorodifluoromethane	0.5		20
CPT-13	39825	TO-15	N	Chloromethane	1.8		20
CPT-13	39825	TO-15	N	Acetone	26.0		20
CPT-13	39825	TO-15	N	Methyl tert butyl ether	1.3		20
CPT-13	39825	TO-15	N	Vinyl acetate	6.3		20
CPT-13	39825	TO-15	N	2-Butanone	6.6		20
CPT-13	39825	TO-15	N	Chloroform	0.7		20
CPT-13	39825	TO-15	N	Benzene	3.0		20
CPT-13	39825	TO-15	N	Toluene	6.2		20
CPT-13	39825	TO-15	N	Dibromochloromethane	0.5		20
CPT-13	39825	TO-15	N	Tetrachloroethene	1.2		20
CPT-13	39825	TO-15	N	Ethylbenzene	0.7		20

TABLE 3-6
Chemicals Detected in CPT Soil Gas Samples

Location ID	Sample ID	Method	QA/QC Type[1]	Analyte	Result (ppbv)	Flag[2]	Depth
CPT-13	39825	TO-15	N	m & p-Xylene	3.8		20
CPT-13	39825	TO-15	N	o-Xylene	1.2		20
CPT-13	39825	TO-15	N	4-Ethyltoluene	4.1		20
CPT-13	39825	TO-15	N	1,3,5-Trimethylbenzene	0.7		20
CPT-13	39825	TO-15	N	1,2,4-Trimethylbenzene	2.0		20
CPT-13	39825	TO-15	N	Benzyl chloride	1.1		20
CPT-15	39828	TO-15	N	Chloromethane	0.6		10
CPT-15	39828	TO-15	N	Acetone	12.2		10
CPT-15	39828	TO-15	N	Methyl tert butyl ether	2.3		10
CPT-15	39828	TO-15	N	Vinyl acetate	11.1		10
CPT-15	39828	TO-15	N	Chloroform	0.5		10
CPT-15	39828	TO-15	N	Benzene	1.0		10
CPT-15	39828	TO-15	N	Toluene	2.9		10
CPT-15	39828	TO-15	N	Ethylbenzene	0.4		10
CPT-15	39828	TO-15	N	m & p-Xylene	2.2		10
CPT-15	39828	TO-15	N	o-Xylene	0.7		10
CPT-15	39828	TO-15	N	4-Ethyltoluene	1.6		10
CPT-15	39828	TO-15	N	1,2,4-Trimethylbenzene	1.4		10
CPT-15	39828	TO-15	N	Benzyl chloride	0.7		10
CPT-15	39829	TO-15	N	Acetone	5.9		20
CPT-15	39829	TO-15	N	Methyl tert butyl ether	1.8		20
CPT-15	39829	TO-15	N	Vinyl acetate	8.3		20
CPT-15	39829	TO-15	N	Chloroform	1.2		20
CPT-15	39829	TO-15	N	Benzene	0.6		20
CPT-15	39829	TO-15	N	Toluene	2.0		20
CPT-15	39829	TO-15	N	Ethylbenzene	0.4		20
CPT-15	39829	TO-15	N	m & p-Xylene	2.2		20
CPT-15	39829	TO-15	N	o-Xylene	0.7		20
CPT-15	39829	TO-15	N	4-Ethyltoluene	2.2		20
CPT-15	39829	TO-15	N	1,3,5-Trimethylbenzene	0.6		20
CPT-15	39829	TO-15	N	1,2,4-Trimethylbenzene	2.1		20
CPT-34	39826	TO-15	N	Chloroethane	0.4		10
CPT-34	39826	TO-15	N	Trichlorofluoromethane	1.5		10
CPT-34	39826	TO-15	N	Acetone	31.1		10
CPT-34	39826	TO-15	N	Methylene chloride	0.5		10
CPT-34	39826	TO-15	N	Carbon disulfide	4.3		10
CPT-34	39826	TO-15	N	trans-1,2-Dichloroethene	0.4		10
CPT-34	39826	TO-15	N	2-Butanone	5.9		10
CPT-34	39826	TO-15	N	Benzene	0.4		10
CPT-34	39826	TO-15	N	Toluene	20.3		10
CPT-34	39826	TO-15	N	1,1,2-Trichloroethane	1.4		10
CPT-34	39826	TO-15	N	Tetrachloroethene	6.8		10
CPT-34	39826	TO-15	N	m & p-Xylene	1.2		10
CPT-34	39826	TO-15	N	o-Xylene	0.5		10
CPT-34	39826	TO-15	N	1,2,4-Trimethylbenzene	0.6		10
CPT-34	39826	TO-15	N	1,2,4-Trichlorobenzene	1.0	B	10
CPT-34	39827	TO-15	N	Toluene	68.7		20
CPT-34	39827	TO-15	N	m & p-Xylene	11.7		20

TABLE 3-6
Chemicals Detected in CPT Soil Gas Samples

Location ID	Sample ID	Method	QA/QC Type[1]	Analyte	Result (ppbv)	Flag[2]	Depth
CPT-34	39827	TO-15	N	1,2,4-Trimethylbenzene	11.1		20
CPT-34	39827	TO-15	N	1,2,4-Trichlorobenzene	13.4	B	20

Notes:

1. QA/QC Type:

N = sample

FD = field duplicate

2. Lab Flag Description:

B = This compound was also detected in the blank.

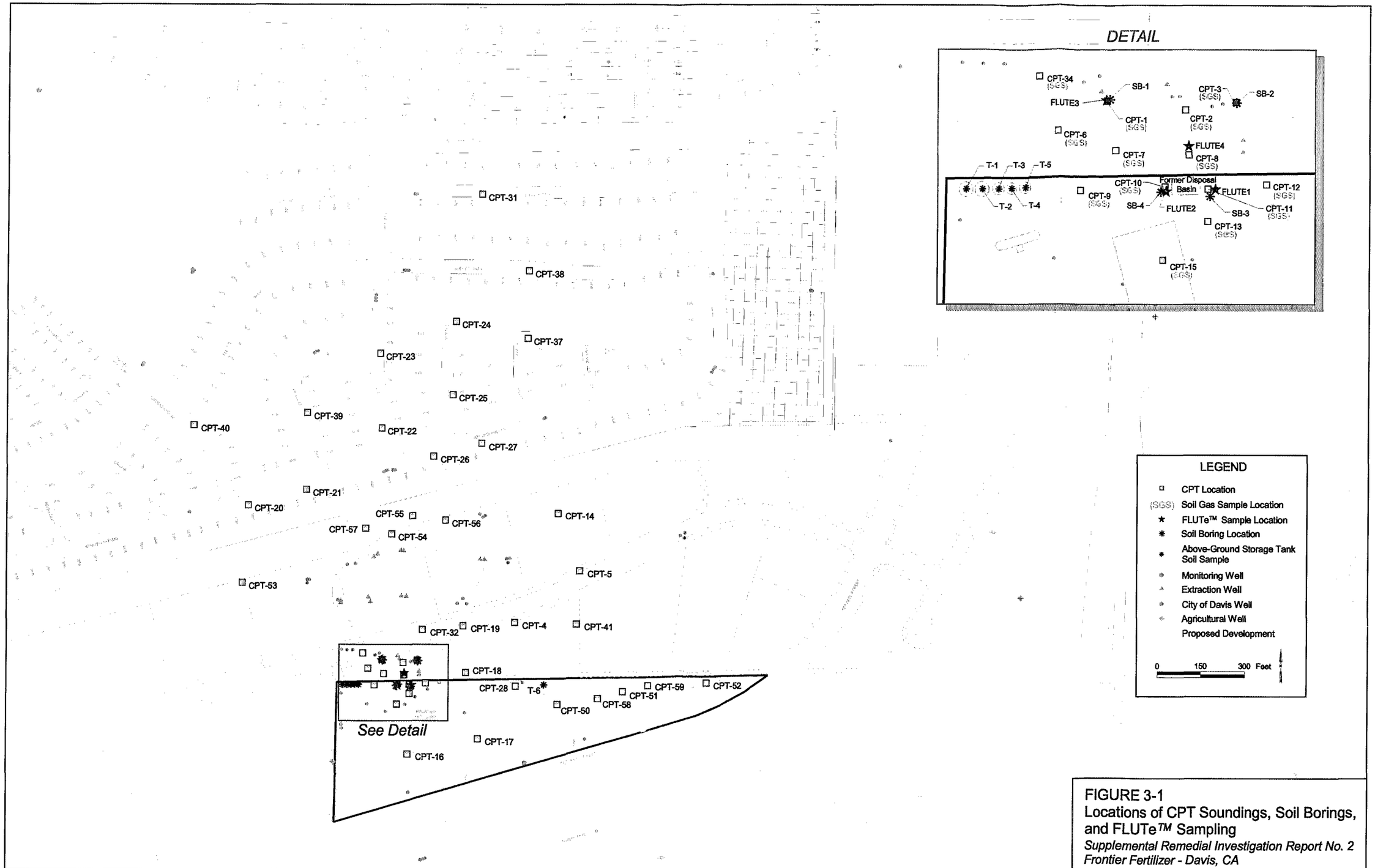
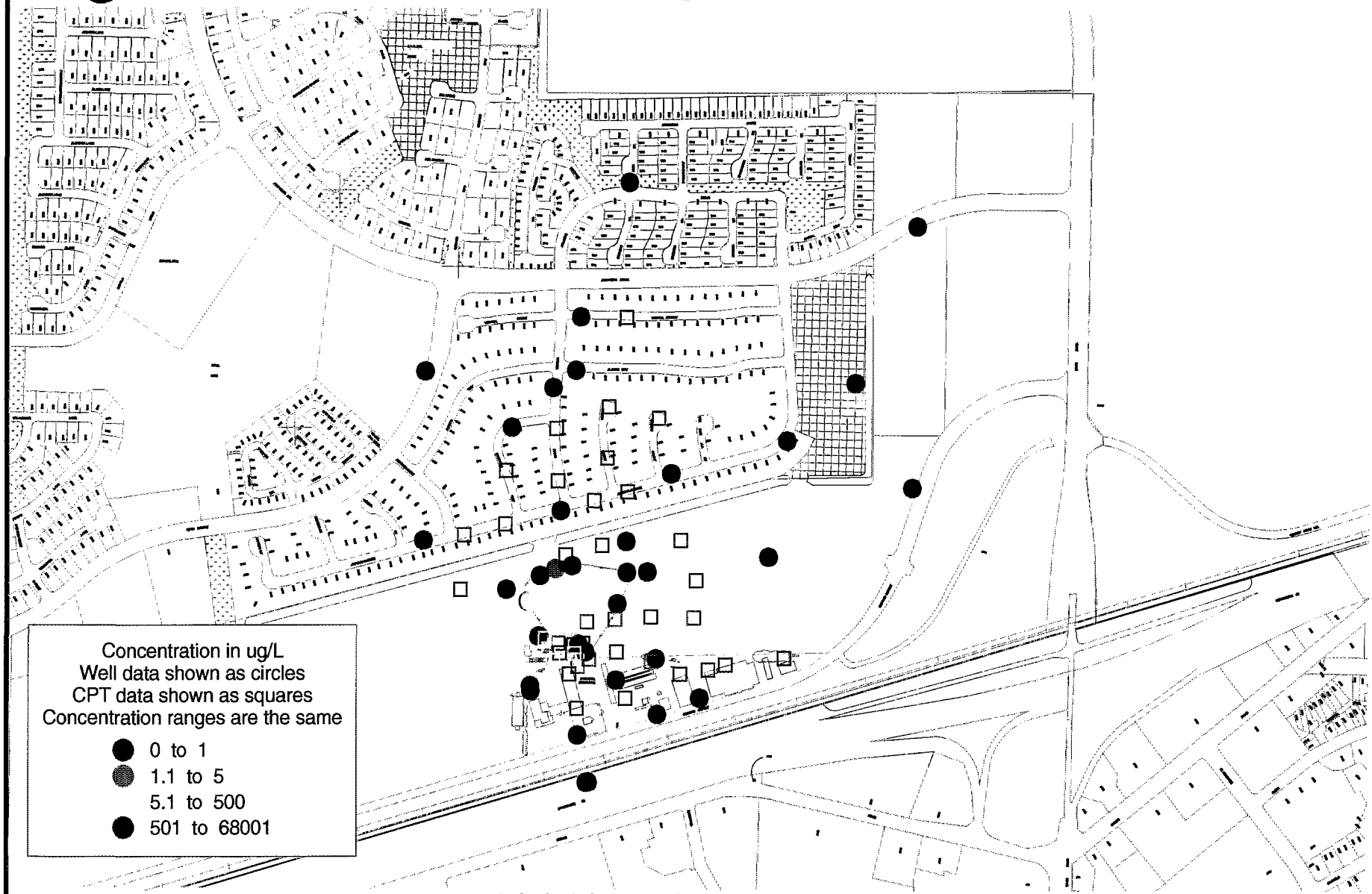


FIGURE 3-1
Locations of CPT Soundings, Soil Borings, and FLUTe™ Sampling
Supplemental Remedial Investigation Report No. 2
Frontier Fertilizer - Davis, CA

CH2M Hill RDD \\Thor\Cart1\Rdodgis\Frontier\ArcView\Supp_RIR_apr\CPT Loc Map 01-07-03

CH2MHILL



CPT data collected between October 2001 and April 2002.

MCL for DCP is 5 ug/L

Well data collected Fall 2001. For wells X6A/B, X-7B/C, OW-15D, and OW19C/D, well data collected January 2002.

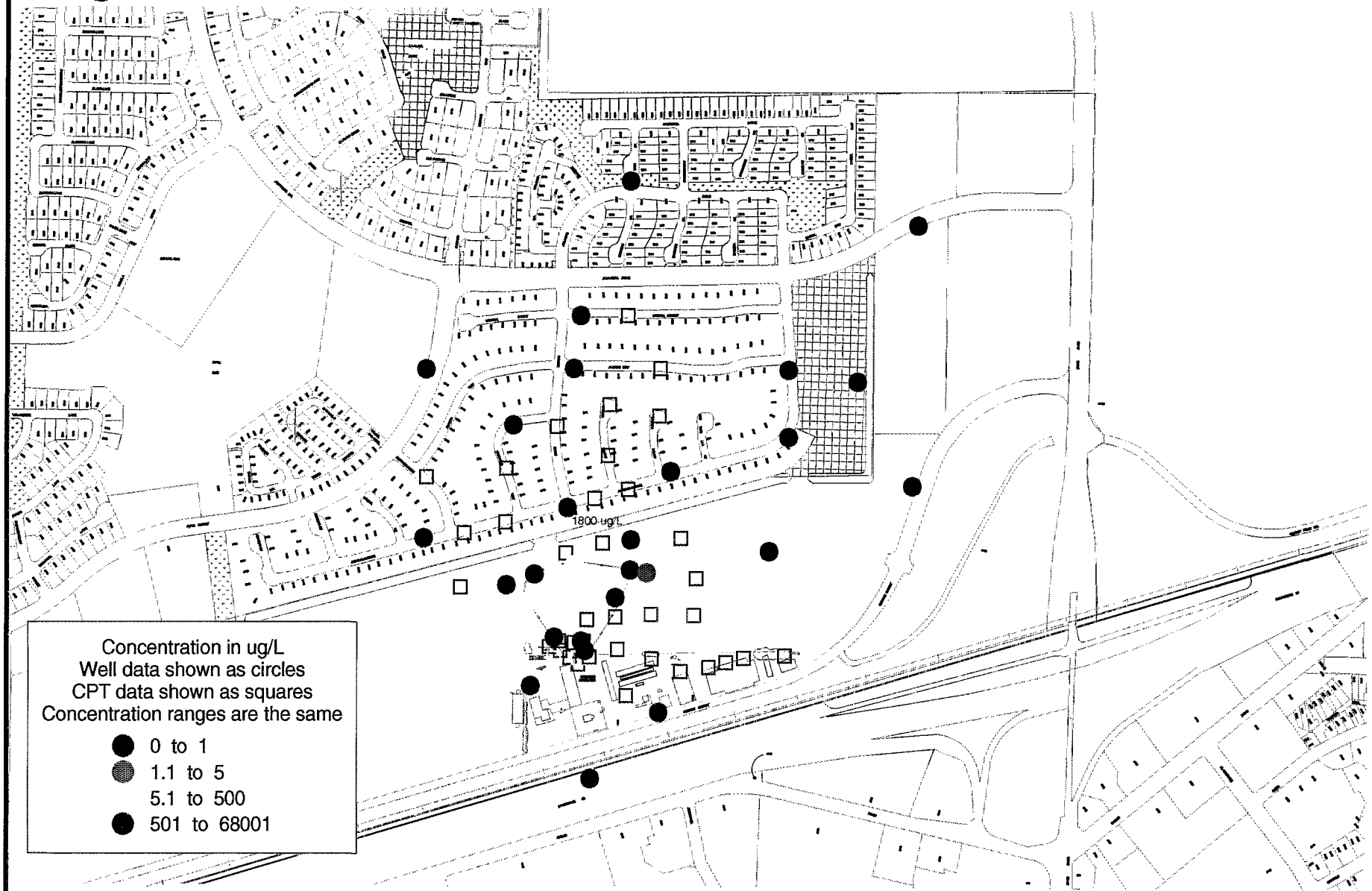
Blue symbols indicate concentrations less than the quantitation limit.

N

0 500 1000 feet

FIGURE 3-2
Distribution of DCP in S-1 Zone
Frontier Fertilizer Site

CH2MHILL



CPT data collected between October 2001 and April 2002.

MCL for DCP is 5 ug/L

Well data collected Fall 2001. For wells X6A/B, X-7B/C, OW-15D, and OW19C/D, well data collected January 2002.

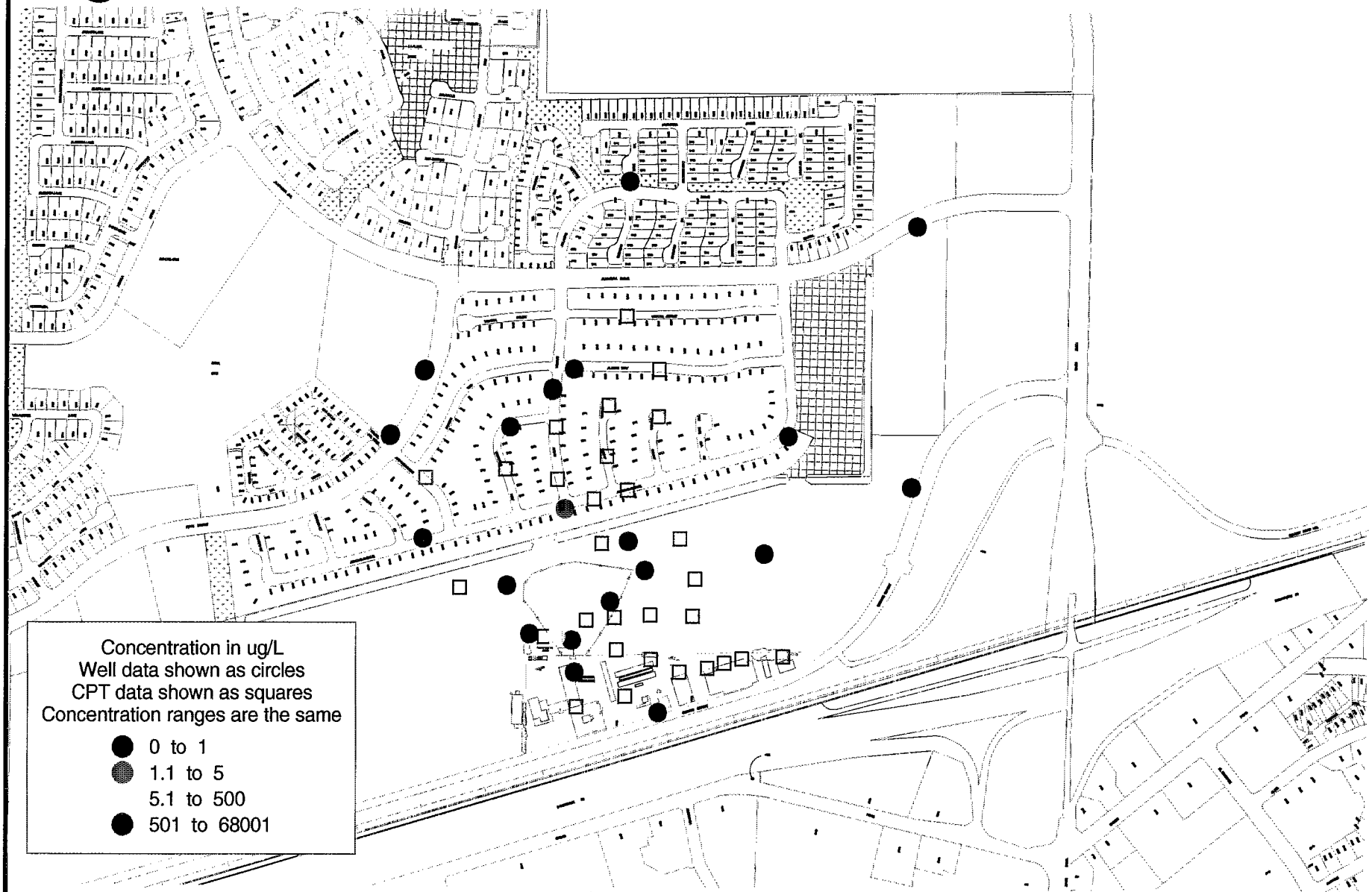
Blue symbols indicate concentrations less than the quantitation limit.

N

0 500 1000 feet

FIGURE 3-3
Distribution of DCP in S-2 Zone
Frontier Fertilizer Site

CH2MHILL



CPT data collected between October 2001 and April 2002.

MCL for DCP is 5 ug/L

Well data collected Fall 2001. For wells X6A/B, X-7B/C, OW-15D, and OW19C/D, well data collected January 2002.

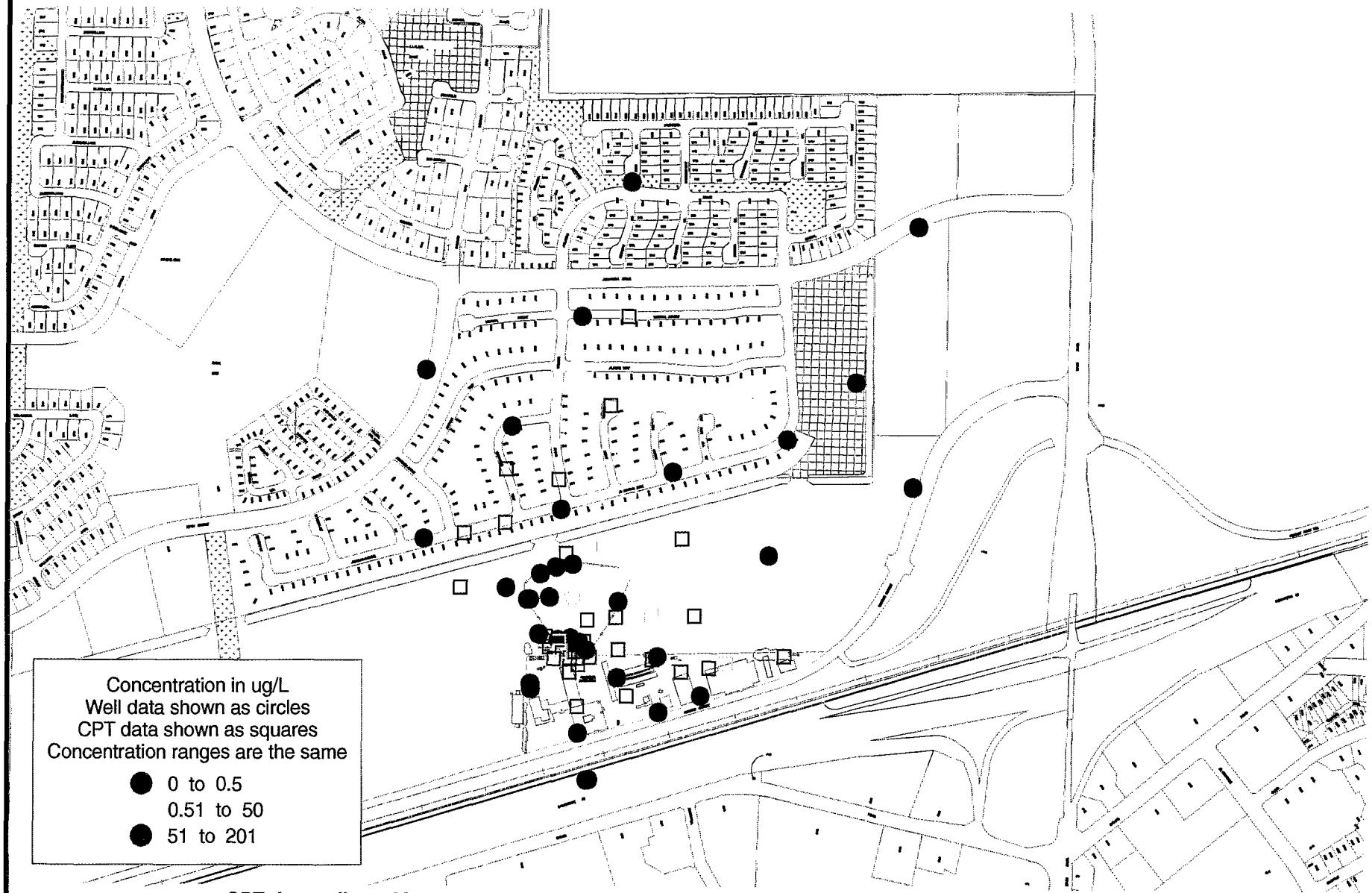
Blue symbols indicate concentrations less than the quantitation limit.

N

0 500 1000 feet

FIGURE 3-4
Distribution of DCP in A-1 Zone
Frontier Fertilizer Site

CH2MHILL



CPT data collected between October 2001 and April 2002.

MCL for CCl4 is 0.5 ug/L

Well data collected Fall 2001. For wells X6A/B, X-7B/C, OW-15D, and OW19C/D, well data collected January 2002.

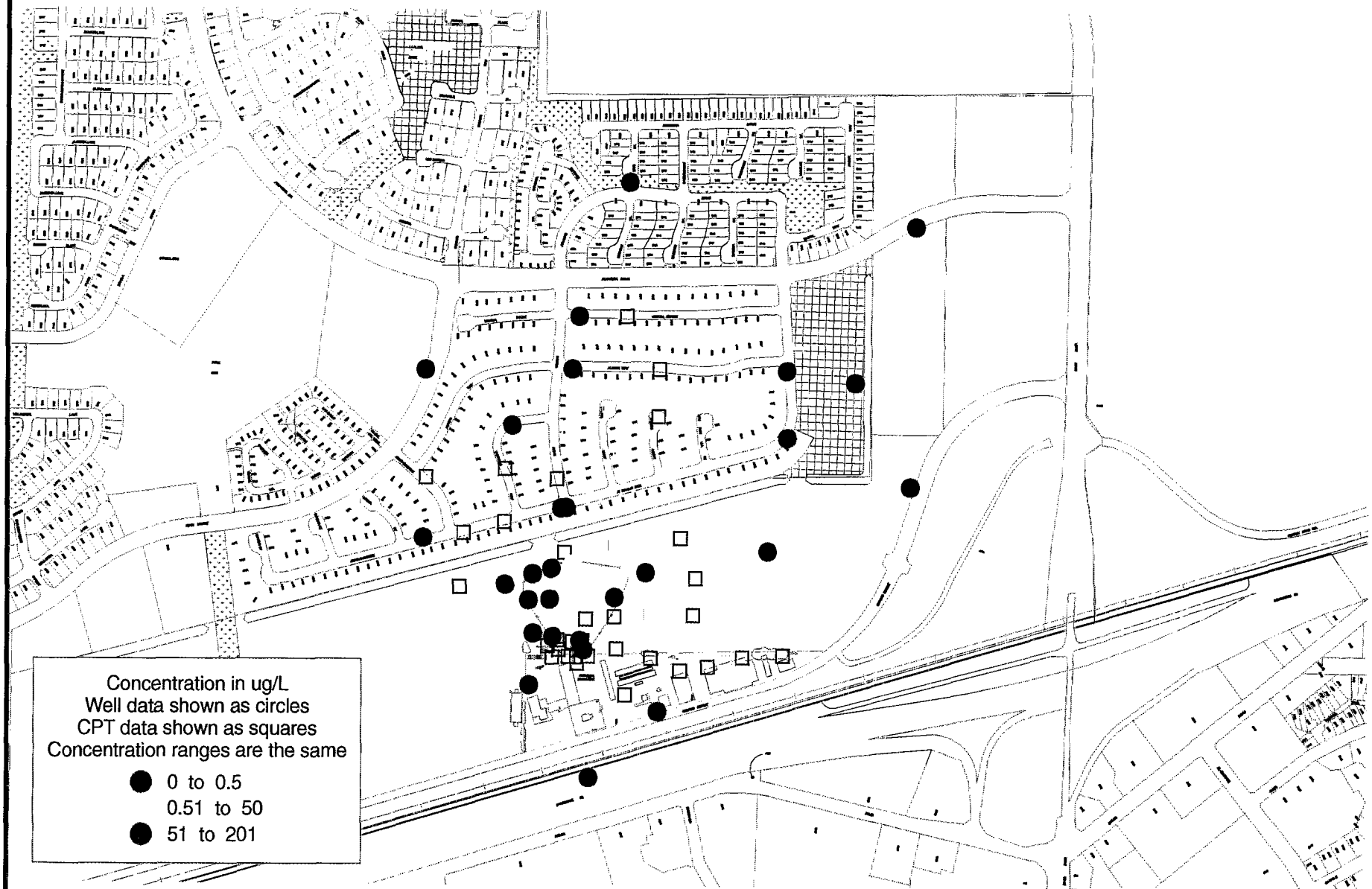
Blue symbols indicate concentrations less than the quantitation limit.

N

0 500 1000 feet

FIGURE 3-5
Distribution of CCl4 in S-1 Zone
Frontier Fertilizer Site

CH2MHILL



CPT data collected between October 2001 and April 2002.

MCL for CCl4 is 0.5 ug/L

Well data collected Fall 2001. For wells X6A/B, X-7B/C, OW-15D, and OW19C/D, well data collected January 2002.

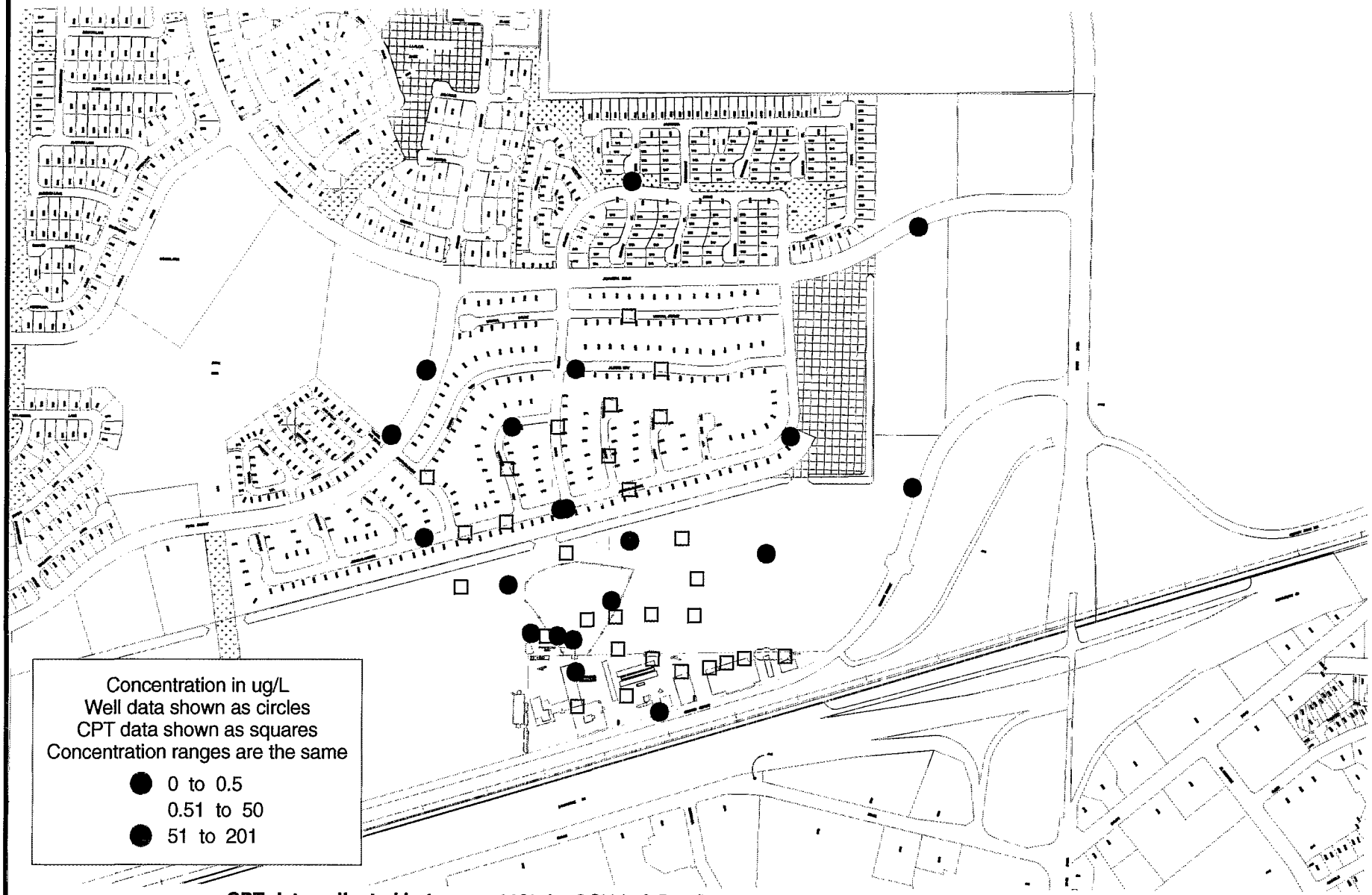
Blue symbols indicate concentrations less than the quantitation limit.

N

0 500 1000 feet

FIGURE 3-6
Distribution of CCl4 in S-2 Zone
Frontier Fertilizer Site

CH2MHILL



CPT data collected between October 2001 and April 2002.

MCL for CCl4 is 0.5 ug/L

Well data collected Fall 2001. For wells X6A/B, X-7B/C, OW-15D, and OW19C/D, well data collected January 2002.

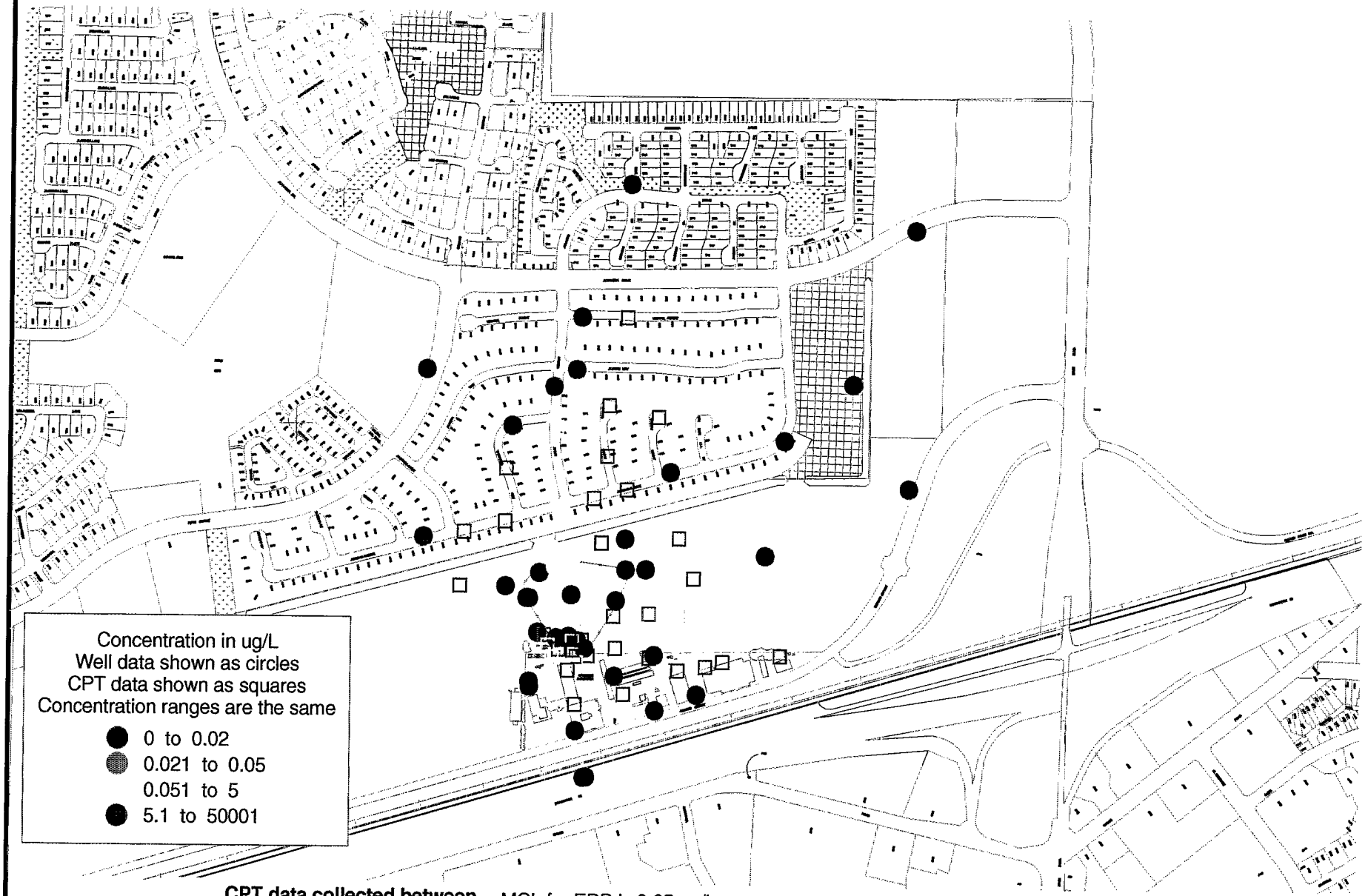
Blue symbols indicate concentrations less than the quantitation limit.

N

0 500 1000 feet

FIGURE 3-7
Distribution of CCl4 in A-1 Zone
Frontier Fertilizer Site

CH2MHILL



MCL for EDB is 0.05 ug/L

CPT data collected between October 2001 and April 2002.

Well data collected Fall 2001. For wells X6A/B, X-7B/C, OW-15D, and OW19C/D, well data collected January 2002.

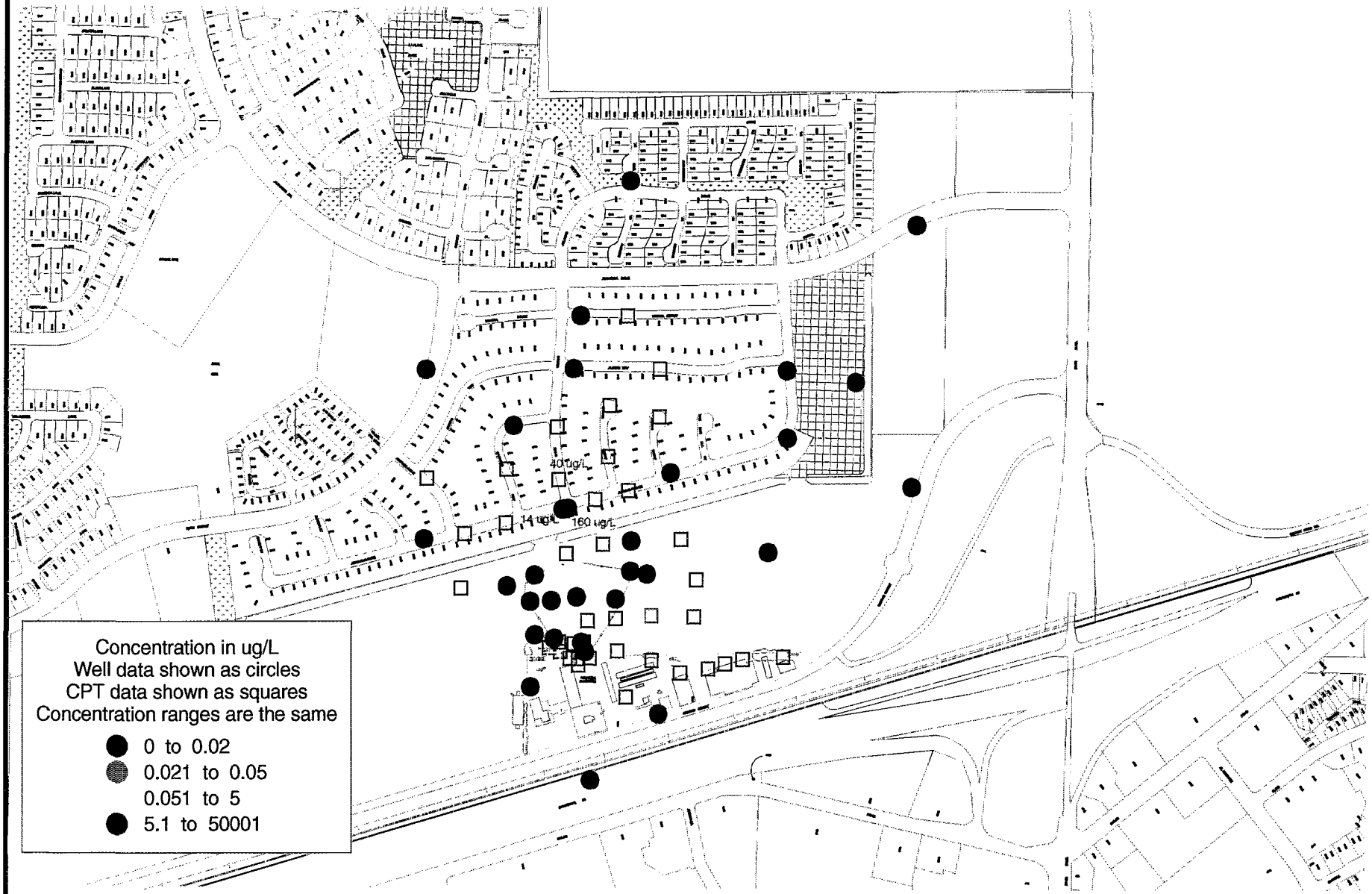
Blue symbols indicate concentrations less than the quantitation limit.

N

0 500 1000 feet

FIGURE 3-8
Distribution of EDB in S-1 Zone
Frontier Fertilizer Site

CH2MHILL



CPT data collected between October 2001 and April 2002.

MCL for EDB is 0.05 ug/L

Well data collected Fall 2001. For wells X6A/B, X-7B/C, OW-15D, and OW19C/D, well data collected January 2002.

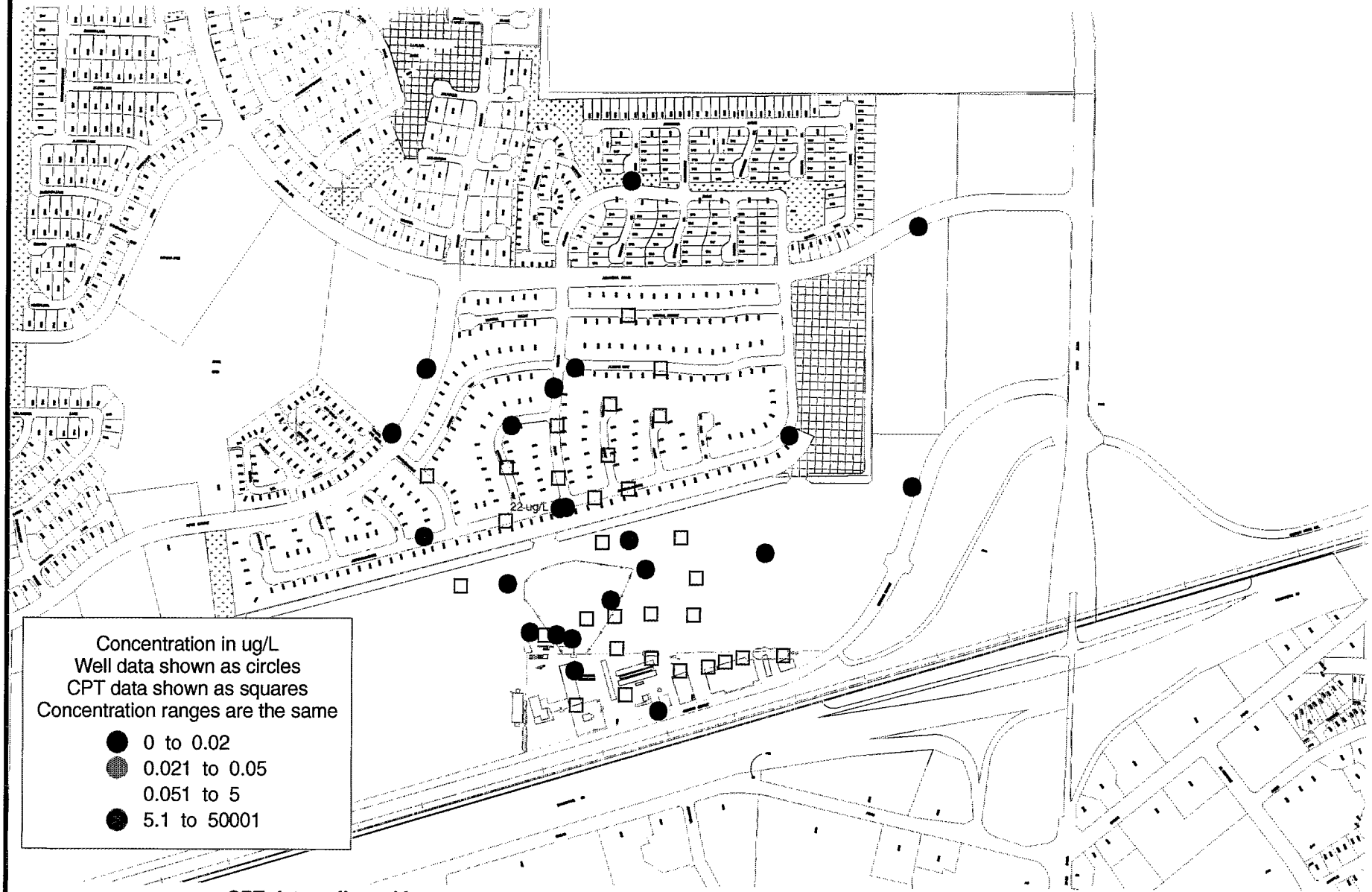
Blue symbols indicate concentrations less than the quantitation limit.

N

0 500 1000 feet

FIGURE 3-9
Distribution of EDB in S-2 Zone
Frontier Fertilizer Site

CH2MHILL



CPT data collected between October 2001 and April 2002.

MCL for EDB is 0.05 ug/L

Well data collected Fall 2001. For wells X6A/B, X-7B/C, OW-15D, and OW19C/D, well data collected January 2002.

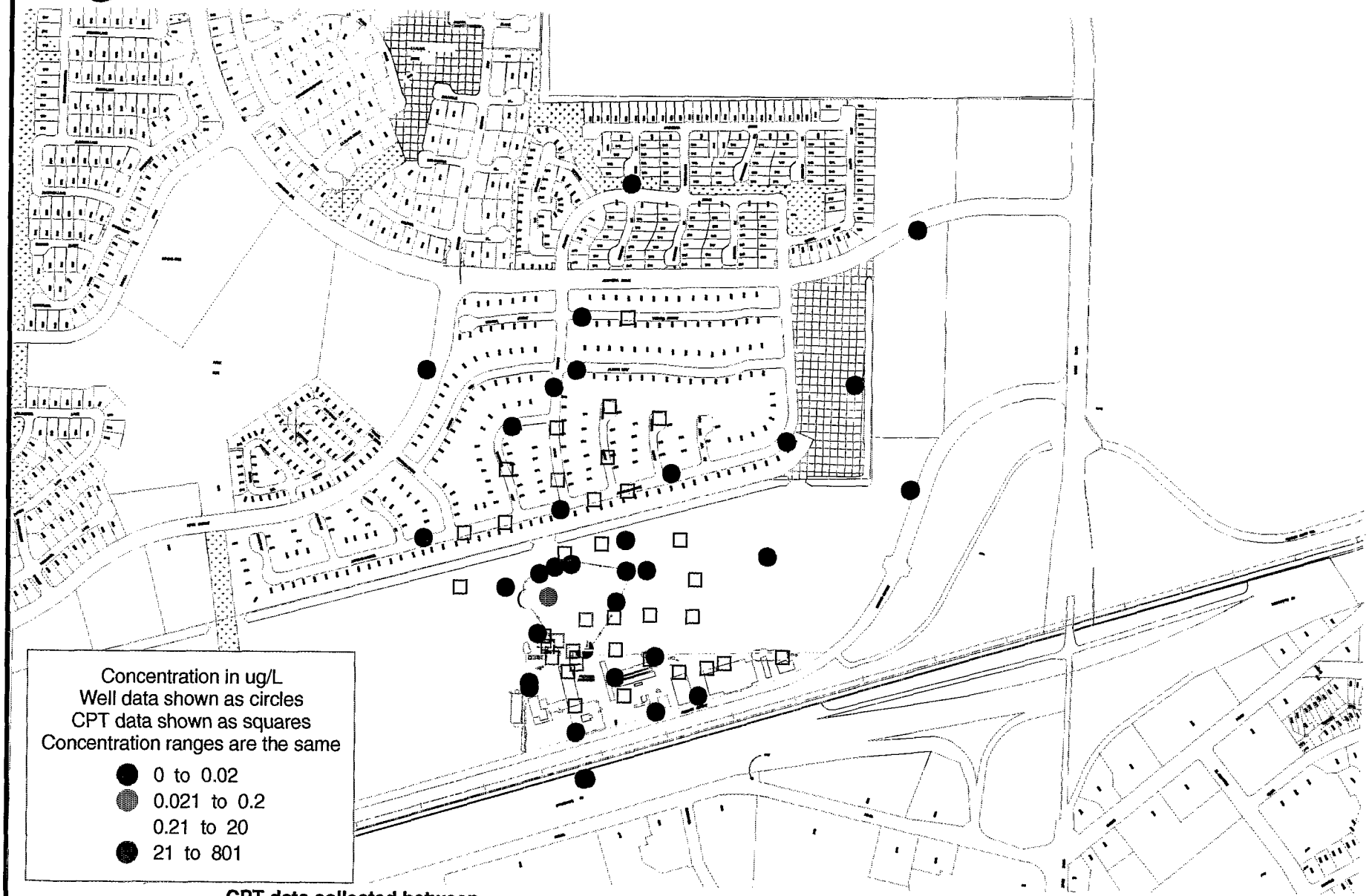
Blue symbols indicate concentrations less than the quantitation limit.

N

0 500 1000 feet

FIGURE 3-10
Distribution of EDB in A-1 Zone
Frontier Fertilizer Site

CH2MHILL



CPT data collected between October 2001 and April 2002.

MCL for DBCP is 0.2 ug/L

N

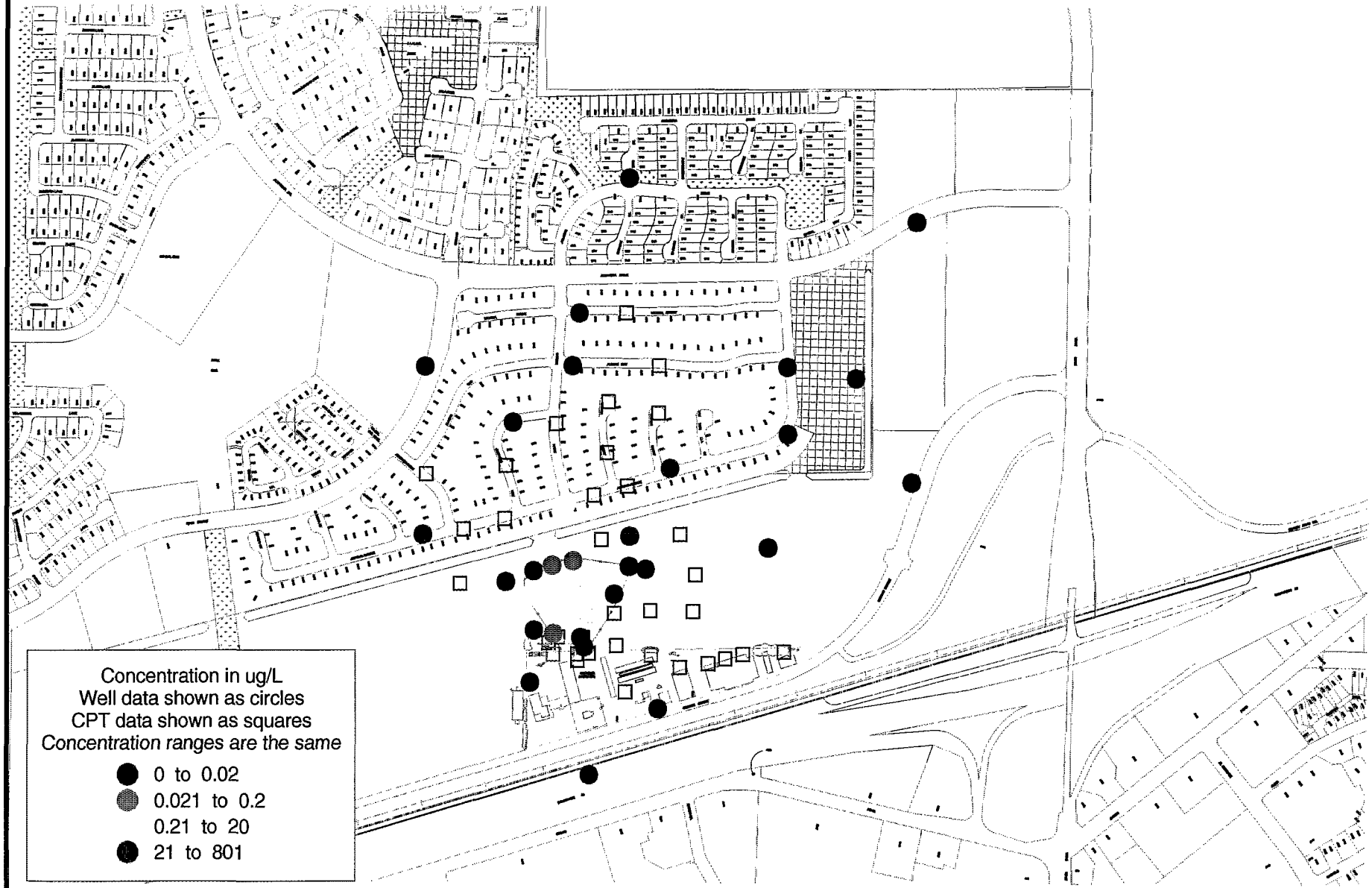
0 500 1000 feet

Well data collected Fall 2001. For wells X6A/B, X-7B/C, OW-15D, and OW19C/D, well data collected January 2002.

Blue symbols indicate concentrations less than the quantitation limit.

FIGURE 3-11
Distribution of DBCP in S-1 Zone
Frontier Fertilizer Site

CH2MHILL



CPT data collected between October 2001 and April 2002.

MCL for DBCP is 0.2 ug/L

Well data collected Fall 2001. For wells X6A/B, X-7B/C, OW-15D, and OW19C/D, well data collected January 2002.

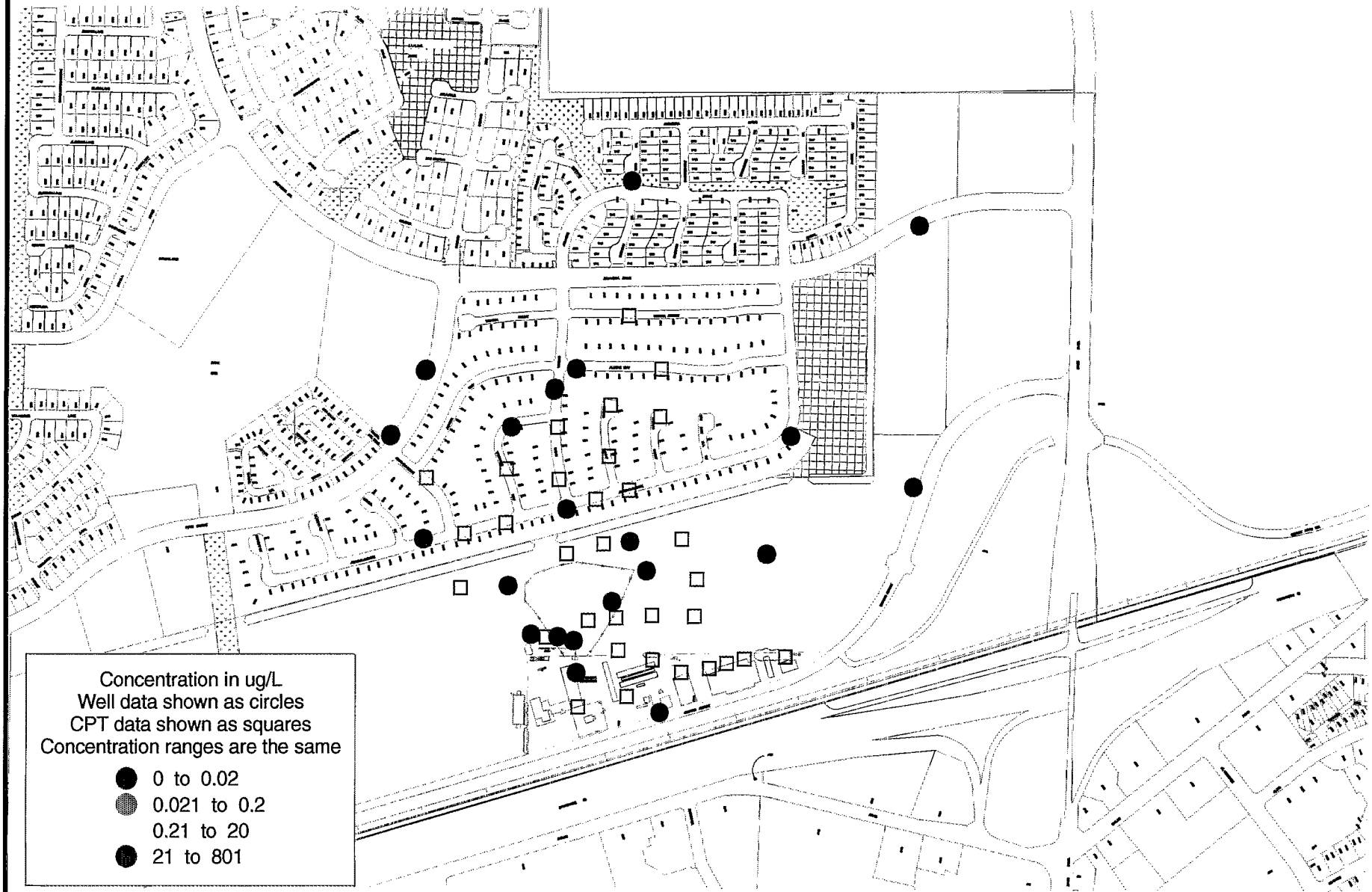
Blue symbols indicate concentrations less than the quantitation limit.

N

0 500 1000 feet

FIGURE 3-12
Distribution of DBCP in S-2 Zone
Frontier Fertilizer Site

CH2MHILL



CPT data collected between October 2001 and April 2002.

MCL for DBCP is 0.2 ug/L

Well data collected Fall 2001. For wells X6A/B, X-7B/C, OW-15D, and OW19C/D, well data collected January 2002.

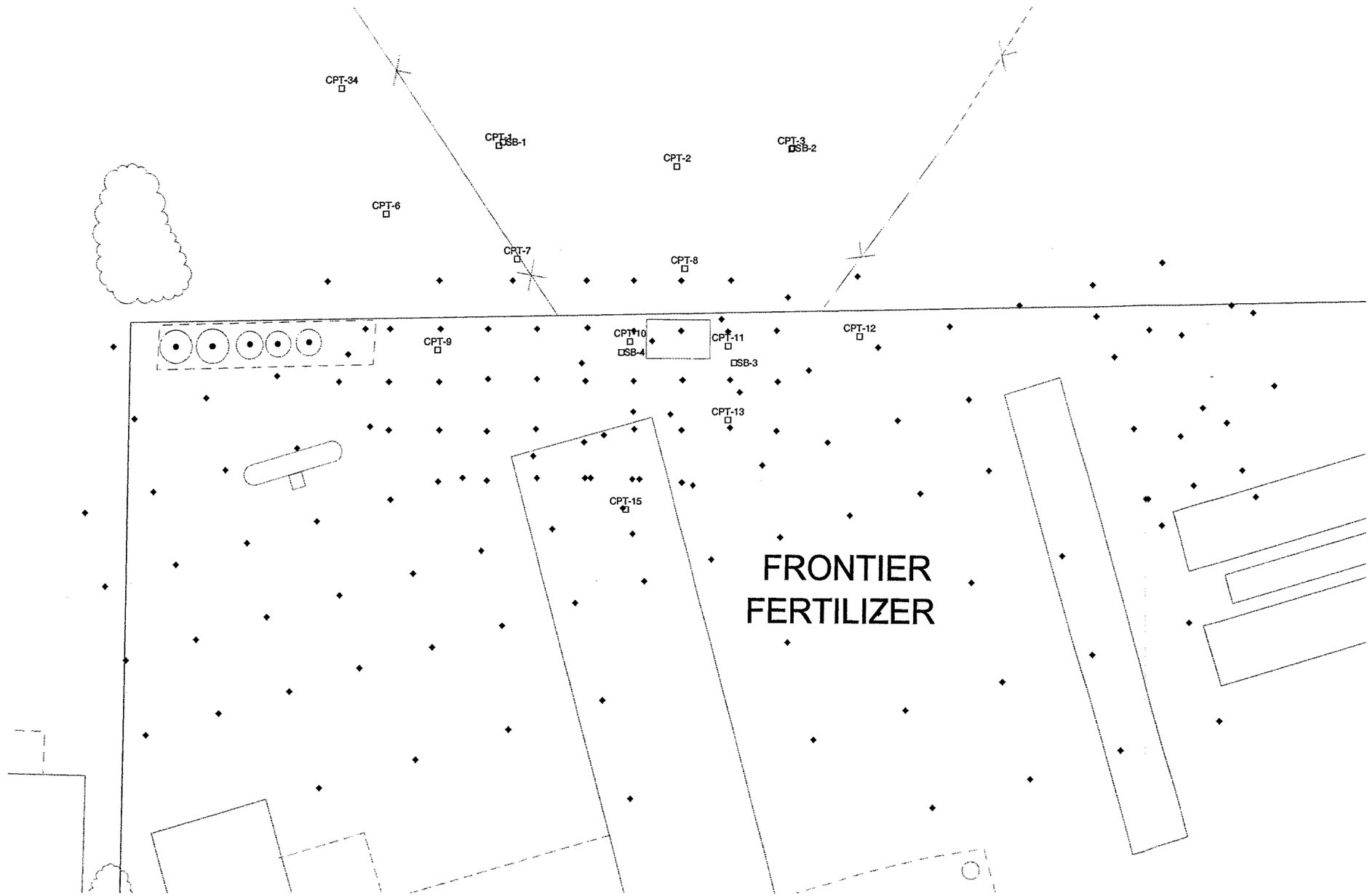
Blue symbols indicate concentrations less than the quantitation limit.

N

0 500 1000 feet

FIGURE 3-13
Distribution of DBCP in A-1 Zone
Frontier Fertilizer Site

CH2MHILL



Note: Bechtel soil sample locations shown as diamonds, tank soil samples shown as circles, and CPT soil sample and soil borings locations shown as open squares. show with an open square.

0 500 1000 feet

Figure 3-14
CPT and Bechtel Soil Sample Locations
Frontier Fertilizer Site

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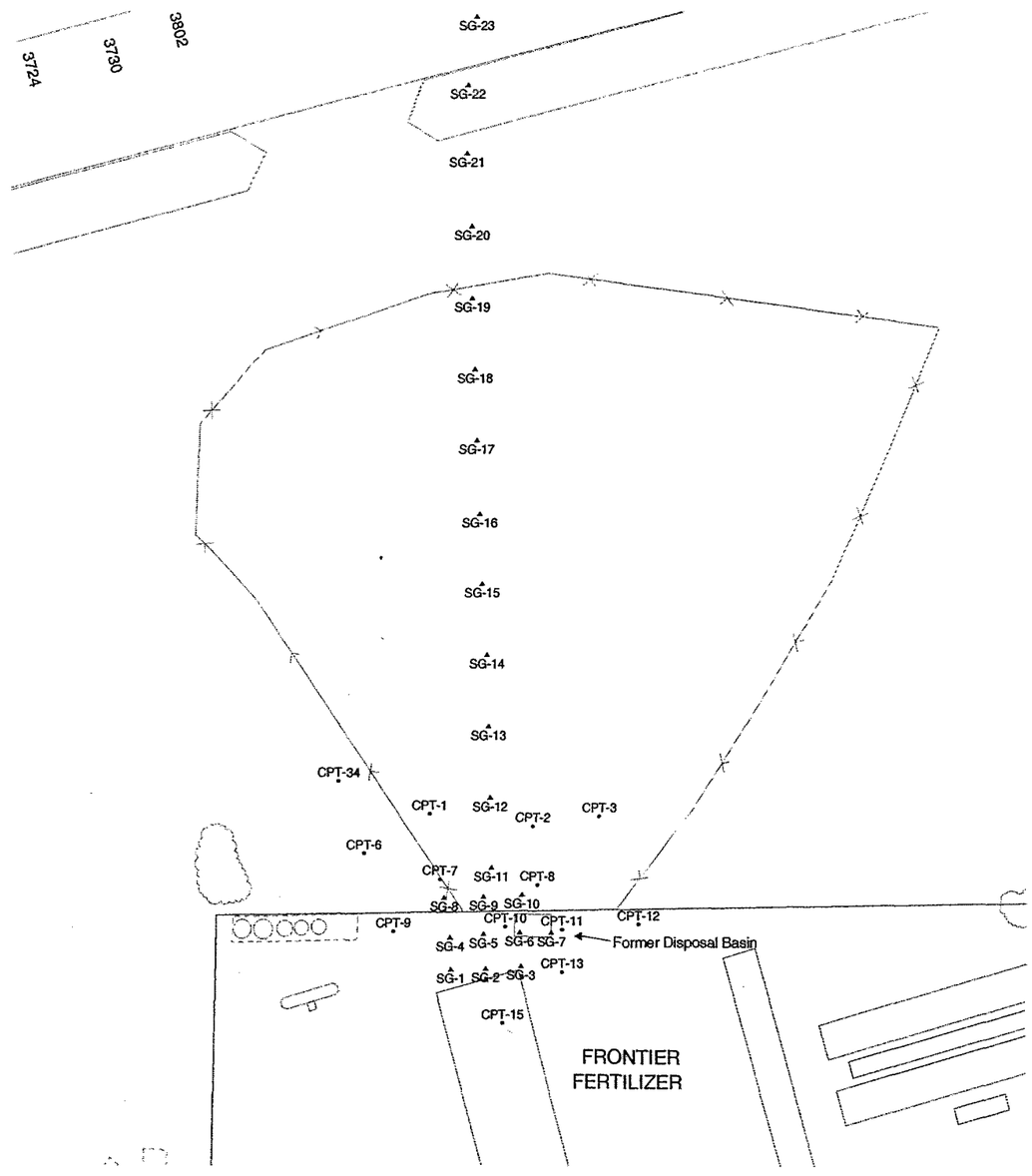

Soil Gas (ppbv)				
Location	EDB	DCP	CCl4	Depth
SG-1	ND	4,600	1.23	5
SG-2	8.2	5,200	ND	5
SG-3	ND	1,500	2.41	5
SG-4	320	19,000	ND	5
SG-5	27	1,000	0.48	5
SG-6	5.5	80	1.13	5
SG-7	0.41	12	ND	5
SG-8	3.4	25	ND	5
SG-9	2.2	17	ND	5
SG-10	2.5	20	ND	5
SG-11	0.94	19	ND	5
SG-12	1.1	24	ND	5
SG-13	ND	0.67	ND	5
SG-14	ND	6.9	ND	5
SG-15	ND	1.9	ND	5
SG-16	ND	7.3	ND	5
SG-17	ND	3.3	ND	5
SG-18	ND	4.0	ND	5
SG-19	ND	4.7	ND	5
SG-20	0.38	6.2	ND	5
SG-21	0.41	11	ND	5
SG-22	0.45	5.3	ND	5
SG-23	0.55	7.5	ND	5
SG-24	ND	4.4	4.62	5

Locations designated with SG were collected by Bechtel in 1997 and those designated with CPT were collected by URS in 2001.

ND = Not Detected

Soil Gas (ppbv)				
Location	EDB	DCP	CCl4	Depth
CPT-1	0.4	ND	ND	10
CPT-1	ND	15.6	ND	20
CPT-2	ND	ND	ND	10
CPT-2	ND	ND	ND	20
CPT-3	ND	ND	ND	10
CPT-3	ND	1.77	ND	20
CPT-6	ND	ND	ND	10
CPT-6	ND	ND	ND	20
CPT-7	ND	ND	ND	10
CPT-7	ND	ND	ND	20
CPT-8	ND	ND	ND	10
CPT-8	5.0	144.9	ND	20
CPT-9	23.2	ND	ND	10
CPT-9	ND	11,366	ND	20
CPT-10	ND	ND	ND	10
CPT-10	106.3	174.8	ND	20
CPT-11	ND	ND	ND	10
CPT-11	ND	303.4	ND	20
CPT-12	ND	ND	ND	10
CPT-12	ND	ND	ND	20
CPT-13	ND	ND	ND	10
CPT-13	ND	ND	ND	20
CPT-15	ND	ND	ND	10
CPT-15	ND	ND	ND	20
CPT-34	ND	ND	ND	10
CPT-34	ND	ND	ND	20

N

0 500 1000 feet

soil gas figure.srf

Figure 3-15
Soil Gas Results
Frontier Fertilizer Site

CH2MHILL

SECTION 4

Soil Borings

Soil borings were installed to characterize the vertical extent of soil contamination in the area of the former disposal basin (source of pesticides).

4.1 Summary of Soil Boring Investigations

Four soil borings, SB-1 through SB-4, were advanced in April 2002 at the locations shown in Figure 3-1. Borings were advanced to approximately 145 feet bgs (through S1, S2, and A-1 zones into the A-1/A-2 aquitard). The rationale used to site soil borings is described in Section 4.2. Soil boring logs are included in Appendix A.

Soil cores were sampled at discrete elevations using an Encore™ sampler and analyzed for EDB, DCP, DBCP, and other VOCs. Soil boring cores were collected and analyzed for the physical properties listed in Table 4-4. Techniques employed to collect soil boring soil samples are described in Section 4.3. Soil samples were analyzed using the methods described in Section 4.4

The results of chemical and physical analyses are reported in Section 4.5.

4.2 Rationale for Soil Boring Locations

The results of CPT groundwater and soil sample analyses (Section 3) were used to site soil borings in the area of the former disposal basin. Soil borings were advanced where the highest concentrations of pesticides were detected in CPT groundwater and soil samples. Soil boring soil samples were analyzed for EDB, DCP, DBCP, and other VOCs to estimate the maximum vertical extent of pesticide contamination. Soil boring cores were sampled from 30 feet bgs to approximately 145 ft bgs to determine whether COCs had migrated to the depth of the A-1/A-2 aquitard. Soil samples were collected down to 30 feet bgs at CPTs 1, 2, 10, and 11 which are adjacent to soil borings 1, 2, 3, and 4, respectively. Soil boring soil samples were analyzed for physical properties to further define the stratigraphy of S-1, S-2, and A-1 zones in the area of the former disposal basin.

4.3 Sampling Techniques

Soil borings were continuously cored using a mud rotary assisted, 94 mm wireline core sampler. Soil was collected in a 5-foot core barrel, 2.5-inches in diameter. Each core barrel was fitted with an inner, split-tube sampler used to collect soil samples for chemical and physical analyses. Soil samples were collected with an Encore™ sampler for chemical analyses from approximately 30 to 145 ft bgs at 5 feet intervals. Split-tube soil cores were collected for physical analyses from approximately 40 to 145 ft bgs at 5 to 20 feet intervals.

Sample containers, preservation, holding times, and documentation for soil boring soil samples are described in URS (2001c).

4.4 Analytical Methods

Soil boring soil samples were analyzed for EDB, DCP, DBCP, and other VOCs using the methods shown in Table 4-1. Soil boring soil samples were analyzed for physical properties using the methods shown in Table 4-3.

QA/QC samples were analyzed as described in URS (2001c).

4.5 Analytical Results

The results of chemical and physical analyses of soil boring soil samples are presented in Tables 4-2 and 4-4, respectively. The results of particle size analyses are presented in Appendix B.

QA/QC sample analytical results for soil boring soil samples are presented in Appendix C (detects only). Soil sampled at 85 and 120 ft bgs in SB-2 were rejected during data validation. Validated analytical results for samples collected above and below the rejected intervals and at similar intervals in the other three soil borings are sufficient to characterize the rejected intervals (see Table 4-2). Therefore, the rejected data does not significantly effect the interpretation of nature and extent of contamination at this location. No other significant QA/QC issues were identified. Analytical results presented in Tables 4-2 and 4-4 have been validated by USEPA.

4.5.1 Results of Soil Boring Soil Sampling and Analyses

Soil borings SB-1 through SB-4 correspond to CPT-1, -3, -11, and –10, respectively. Combining CPT soil sample data from 0-30 feet and soil boring soil sample data from 30-145 feet, a preliminary interpretation of the vertical extent of contamination in the area of the former disposal basin is as follows (Baylor, 2002):

- Area of CPT-1 and SB-1 (northwest of the former disposal basin): soil is contaminated from 25 to 80 ft bgs.
- Area of CPT-3 and SB-2 (northeast of the former disposal basin): soil is contaminated from 25 to 35 ft bgs and 60 to 95 ft bgs, with the most significant contamination present from 60 to 75 feet bgs.
- Area of CPT-11 and SB-3 (adjacent and east of the former disposal basin): soil is highly contaminated from 15 to 30 ft bgs and minimally contaminated from 30 to 80 ft bgs.
- Area of CPT-10 and SB-4 (adjacent and west of the former disposal basin): soil is contaminated intermittently from 5 to 75 ft bgs.

No COCs were detected in samples collected from the A-1/A-2 aquitard material in soil borings SB-1 through SB-4.

TABLE 4-1
Soil Boring Soil Sample Collection and Analyses
Frontier Fertilizer Superfund Site

Location ID	Sample ID	Sample Depth (ft)	QA/QC Type	Sample Date	Method
SB-1					
	Y0G29	30	N	04/05/2002	VOCs
	Y0G30	35	N	04/05/2002	VOCs
	Y0G32	40	N	04/05/2002	VOCs
	Y0G33	45	N	04/05/2002	VOCs
	Y0G34	45	FD	04/05/2002	VOCs
	Y0G35	50	N	04/05/2002	VOCs
	Y0EH7	55	N	04/05/2002	VOCs
	Y0EH8	60	N	04/05/2002	VOCs
	Y0EH9	65	N	04/08/2002	VOCs
	Y0EJ0	70	N	04/08/2002	VOCs
	Y0EJ2	75	N	04/08/2002	VOCs
	Y0EJ3	80	N	04/08/2002	VOCs
	Y0EJ4	85	N	04/08/2002	VOCs
	Y0EJ6	90	N	04/08/2002	VOCs
	Y0EJ7	95	N	04/08/2002	VOCs
	Y0EJ8	100	N	04/08/2002	VOCs
	Y0EJ9	105	N	04/08/2002	VOCs
	Y0EK0	110	N	04/08/2002	VOCs
	Y0EK1	115	N	04/09/2002	VOCs
	Y0EK2	120	N	04/09/2002	VOCs
	Y0EK4	125	N	04/09/2002	VOCs
	Y0EK5	130	N	04/09/2002	VOCs
	Y0EK6	130	FD	04/09/2002	VOCs
	Y0EK7	135	N	04/09/2002	VOCs
	Y0EK9	140	N	04/09/2002	VOCs
SB-2					
	Y0EL3	30	N	04/17/2002	VOCs
	Y0EL5	35	N	04/17/2002	VOCs
	Y0EL6	40	N	04/17/2002	VOCs
	Y0EL7	40	FD	04/17/2002	VOCs
	Y0EL8	45	N	04/17/2002	VOCs
	Y0EM0	50	N	04/17/2002	VOCs
	Y0EM1	55	N	04/17/2002	VOCs
	Y0EM2	60	N	04/17/2002	VOCs
	Y0EM3	65	N	04/17/2002	VOCs
	Y0EM4	65	FD	04/17/2002	VOCs
	Y0EM5	70	N	04/17/2002	VOCs
	Y0EM7	75	N	04/18/2002	VOCs
	Y0EM8	80	N	04/18/2002	VOCs
	Y0EN0	85	N	04/18/2002	VOCs
	Y0EN1	90	N	04/18/2002	VOCs
	Y0EN2	95	N	04/18/2002	VOCs
	Y0EN3	100	N	04/18/2002	VOCs
	Y0EN4	105	N	04/18/2002	VOCs
	Y0EN5	110	N	04/18/2002	VOCs
	Y0EN6	110	FD	04/18/2002	VOCs
	Y0EN7	115	N	04/18/2002	VOCs
	Y0EN8	120	N	04/18/2002	VOCs
	Y0EP0	125	N	04/18/2002	VOCs

Notes: QA/QC Type: N = sample, FD = field duplicate
Sorted by LocationID, Sample Depth, Sample ID, Sample Date

TABLE 4-1
Soil Boring Soil Sample Collection and Analyses
Frontier Fertilizer Superfund Site

Location ID	Sample ID	Sample Depth (ft)	QA/QC Type	Sample Date	Method
SB-2					
	Y0EP2	135	N	04/18/2002	VOCs
	Y0EP1	140	N	04/18/2002	VOCs
	Y0EP5	145	N	04/19/2002	VOCs
SB-3					
	Y0EP8	30	N	04/15/2002	VOCs
	Y0EP9	30	FD	04/15/2002	VOCs
	Y0EQ0	35	N	04/15/2002	VOCs
	Y0EQ2	40	N	04/15/2002	VOCs
	Y0EQ4	45	N	04/15/2002	VOCs
	Y0EQ5	50	N	04/15/2002	VOCs
	Y0EQ6	55	N	04/15/2002	VOCs
	Y0EQ7	60	N	04/15/2002	VOCs
	Y0EQ8	60	FD	04/15/2002	VOCs
	Y0EQ9	65	N	04/15/2002	VOCs
	Y0ER1	70	N	04/15/2002	VOCs
	Y0ER2	75	N	04/15/2002	VOCs
	Y0ER4	80	N	04/15/2002	VOCs
	Y0ER5	85	N	04/15/2002	VOCs
	Y0ER6	90	N	04/15/2002	VOCs
	Y0ER7	95	N	04/15/2002	VOCs
	Y0ER8	100	N	04/15/2002	VOCs
	Y0ER9	105	N	04/16/2002	VOCs
	Y0ES0	110	N	04/16/2002	VOCs
	Y0ES1	115	N	04/16/2002	VOCs
	Y0ES2	115	FD	04/16/2002	VOCs
	Y0ES3	120	N	04/16/2002	VOCs
	Y0ES5	125	N	04/16/2002	VOCs
	Y0ES9	142	N	04/16/2002	VOCs
	Y0ET0	145	N	04/16/2002	VOCs
	Y0ET1	150	N	04/16/2002	VOCs
	Y0ET2	155	N	04/16/2002	VOCs
SB-4					
	Y0ET3	30	N	04/10/2002	VOCs
	Y0ET5	35	N	04/10/2002	VOCs
	Y0ET6	35	FD	04/10/2002	VOCs
	Y0ET7	40	N	04/10/2002	VOCs
	Y0ET8	45	N	04/10/2002	VOCs
	Y0ET9	50	N	04/10/2002	VOCs
	Y0EW1	55	N	04/11/2002	VOCs
	Y0EW2	60	N	04/11/2002	VOCs
	Y0EW3	65	N	04/11/2002	VOCs
	Y0EW4	70	N	04/11/2002	VOCs
	Y0EW6	75	N	04/11/2002	VOCs
	Y0EW7	80	N	04/11/2002	VOCs
	Y0EW8	80	FD	04/11/2002	VOCs
	Y0EW9	85	N	04/11/2002	VOCs
	Y0EX1	90	N	04/11/2002	VOCs
	Y0EX2	95	N	04/11/2002	VOCs
	Y0EX3	100	N	04/11/2002	VOCs

Notes: QA/QC Type: N = sample, FD = field duplicate
Sorted by LocationID, Sample Depth, Sample ID, Sample Date

TABLE 4-1
Soil Boring Soil Sample Collection and Analyses
Frontier Fertilizer Superfund Site

Location ID	Sample ID	Sample Depth (ft)	QA/QC Type	Sample Date	Method
SB-4					
	Y0EX4	105	N	04/11/2002	VOCs
	Y0EX5	110	N	04/11/2002	VOCs
	Y0EX8	120	N	04/11/2002	VOCs
	Y0EX9	125	N	04/12/2002	VOCs
	Y0EY1	130	N	04/12/2002	VOCs
	Y0EY2	135	N	04/12/2002	VOCs
	Y0EY3	140	N	04/12/2002	VOCs

Notes: QA/QC Type: N = sample, FD = field duplicate
Sorted by LocationID, Sample Depth, Sample ID, Sample Date

Table 4-2
Chemicals Detected in Soil Boring Soil Samples

Location ID	Sample ID	Sample Date	Depth (ft bgs)	QA/QC Type[2]	Method	Analyte	Result[3]	Units	Flag[4]
SB-1	Y0G29	04/05/2002	30	N	VOCs	1,2-Dibromoethane (EDB)	**560**	ug/Kg	J
SB-1	Y0G29	04/05/2002	30	N	VOCs	1,2-Dichloropropane (DCP)	**2300**	ug/Kg	
SB-1	Y0G30	04/05/2002	35	N	VOCs	1,2-Dibromoethane (EDB)	**380**	ug/Kg	J
SB-1	Y0G30	04/05/2002	35	N	VOCs	1,2-Dichloropropane (DCP)	**1700**	ug/Kg	
SB-1	Y0G32	04/05/2002	40	N	VOCs	1,2-Dibromoethane (EDB)	**200**	ug/Kg	J
SB-1	Y0G32	04/05/2002	40	N	VOCs	1,2-Dichloropropane (DCP)	**1700**	ug/Kg	
SB-1	Y0G33	04/05/2002	45	N	VOCs	1,2-Dichloropropane (DCP)	580	ug/Kg	J
SB-1	Y0G34	04/05/2002	45	FD	VOCs	1,2-Dichloropropane (DCP)	710	ug/Kg	J
SB-1	Y0G34	04/05/2002	45	FD	VOCs	Acetone	1400	ug/Kg	
SB-1	Y0G35	04/05/2002	50	N	VOCs	1,2-Dichloropropane (DCP)	290	ug/Kg	J
SB-1	Y0G35	04/05/2002	50	N	VOCs	Acetone	1100	ug/Kg	
SB-1	Y0EH7	04/05/2002	55	N	VOCs	Acetone	740	ug/Kg	J
SB-1	Y0EH7	04/05/2002	55	N	VOCs	1,2-Dichloropropane (DCP)	240	ug/Kg	J
SB-1	Y0EH8	04/05/2002	60	N	VOCs	Acetone	850	ug/Kg	J
SB-1	Y0EH8	04/05/2002	60	N	VOCs	1,2-Dichloropropane (DCP)	**780**	ug/Kg	J
SB-1	Y0EH8	04/05/2002	60	N	VOCs	1,2-Dibromoethane (EDB)	**430**	ug/Kg	J
SB-1	Y0EH9	04/08/2002	65	N	VOCs	1,2-Dichloropropane (DCP)	**2500**	ug/Kg	
SB-1	Y0EH9	04/08/2002	65	N	VOCs	1,2-Dibromoethane (EDB)	**1300**	ug/Kg	
SB-1	Y0EJ0	04/08/2002	70	N	VOCs	1,2-Dichloropropane (DCP)	**5200**	ug/Kg	
SB-1	Y0EJ0	04/08/2002	70	N	VOCs	1,2-Dibromoethane (EDB)	**2700**	ug/Kg	
SB-1	Y0EJ2	04/08/2002	75	N	VOCs	1,2-Dichloropropane (DCP)	**4300**	ug/Kg	
SB-1	Y0EJ2	04/08/2002	75	N	VOCs	1,2-Dibromoethane (EDB)	**4500**	ug/Kg	
SB-1	Y0EJ3	04/08/2002	80	N	VOCs	Trichlorofluoromethane	4	ug/Kg	J
SB-1	Y0EJ3	04/08/2002	80	N	VOCs	1,2-Dichloropropane (DCP)	11	ug/Kg	
SB-1	Y0EJ4	04/08/2002	85	N	VOCs	1,2-Dibromoethane (EDB)	5	ug/Kg	J
SB-1	Y0EJ4	04/08/2002	85	N	VOCs	Trichlorofluoromethane	16	ug/Kg	
SB-1	Y0EJ6	04/08/2002	90	N	VOCs	1,2-Dibromoethane (EDB)	3	ug/Kg	J
SB-1	Y0EJ6	04/08/2002	90	N	VOCs	Trichlorofluoromethane	25	ug/Kg	
SB-1	Y0EJ7	04/08/2002	95	N	VOCs	Trichlorofluoromethane	10	ug/Kg	J
SB-1	Y0EJ7	04/08/2002	95	N	VOCs	1,2-Dibromoethane (EDB)	1	ug/Kg	J
SB-1	Y0EJ8	04/08/2002	100	N	VOCs	Trichlorofluoromethane	8	ug/Kg	J
SB-1	Y0EJ9	04/08/2002	105	N	VOCs	Trichlorofluoromethane	11	ug/Kg	
SB-1	Y0EK0	04/08/2002	110	N	VOCs	Trichlorofluoromethane	17	ug/Kg	

Table 4-2
Chemicals Detected in Soil Boring Soil Samples

Location ID	Sample ID	Sample Date	Depth (ft bgs)	QA/QC Type[2]	Method	Analyte	Result[3]	Units	Flag[4]
SB-1	Y0EK1	04/09/2002	115	N	VOCs	Trichlorofluoromethane	6	ug/Kg	J
SB-1	Y0EK1	04/09/2002	115	N	VOCs	1,2-Dibromoethane (EDB)	2	ug/Kg	J
SB-1	Y0EK2	04/09/2002	120	N	VOCs	Trichlorofluoromethane	8	ug/Kg	J
SB-1	Y0EK4	04/09/2002	125	N	VOCs	Trichlorofluoromethane	3	ug/Kg	J
SB-1	Y0EK5	04/09/2002	130	N	VOCs	Trichlorofluoromethane	1	ug/Kg	J
SB-1	Y0EK7	04/09/2002	135	N	VOCs	Trichlorofluoromethane	6	ug/Kg	J
SB-1	Y0EK9	04/09/2002	140	N	VOCs	Trichlorofluoromethane	13	ug/Kg	
SB-2	Y0EL3	04/17/2002	30	N	VOCs	Acetone	7	ug/Kg	J
SB-2	Y0EL3	04/17/2002	30	N	VOCs	Trichlorofluoromethane	9	ug/Kg	J
SB-2	Y0EL5	04/17/2002	35	N	VOCs	Acetone	6	ug/Kg	J
SB-2	Y0EL5	04/17/2002	35	N	VOCs	Trichlorofluoromethane	2	ug/Kg	J
SB-2	Y0EL5	04/17/2002	35	N	VOCs	1,2-Dichloropropane (DCP)	29	ug/Kg	
SB-2	Y0EL6	04/17/2002	40	N	VOCs	Acetone	6	ug/Kg	J
SB-2	Y0EL6	04/17/2002	40	N	VOCs	Trichlorofluoromethane	2	ug/Kg	J
SB-2	Y0EL6	04/17/2002	40	N	VOCs	Toluene	2	ug/Kg	J
SB-2	Y0EL7	04/17/2002	40	FD	VOCs	Acetone	5	ug/Kg	J
SB-2	Y0EL7	04/17/2002	40	FD	VOCs	Trichlorofluoromethane	1	ug/Kg	J
SB-2	Y0EL8	04/17/2002	45	N	VOCs	Acetone	5	ug/Kg	J
SB-2	Y0EM0	04/17/2002	50	N	VOCs	Acetone	4	ug/Kg	J
SB-2	Y0EM0	04/17/2002	50	N	VOCs	Trichlorofluoromethane	7	ug/Kg	J
SB-2	Y0EM0	04/17/2002	50	N	VOCs	Toluene	3	ug/Kg	J
SB-2	Y0EM0	04/17/2002	50	N	VOCs	Xylenes (total)	2	ug/Kg	J
SB-2	Y0EM1	04/17/2002	55	N	VOCs	Acetone	3	ug/Kg	J
SB-2	Y0EM2	04/17/2002	60	N	VOCs	1,2-Dichloropropane (DCP)	**1200**	ug/Kg	E
SB-2	Y0EM2	04/17/2002	60	N	VOCs	Benzene	9	ug/Kg	J
SB-2	Y0EM2	04/17/2002	60	N	VOCs	Acetone	4	ug/Kg	J
SB-2	Y0EM2	04/17/2002	60	N	VOCs	Trichlorofluoromethane	4	ug/Kg	J
SB-2	Y0EM2	04/17/2002	60	N	VOCs	1,2-Dibromoethane (EDB)	11	ug/Kg	J
SB-2	Y0EM2	04/17/2002	60	N	VOCs	1,2-Dichloroethane	4	ug/Kg	J
SB-2	Y0EM2	04/17/2002	60	N	VOCs	Chlorobenzene	2	ug/Kg	J
SB-2	Y0EM3	04/17/2002	65	N	VOCs	1,2-Dichloropropane (DCP)	**3200**	ug/Kg	E
SB-2	Y0EM3	04/17/2002	65	N	VOCs	Acetone	6	ug/Kg	J
SB-2	Y0EM3	04/17/2002	65	N	VOCs	1,1,2-Trichloroethane	2	ug/Kg	J

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Chemicals Detected in Soil Boring Soil Samples

Location ID	Sample ID	Sample Date	Depth (ft bgs)	QA/QC Type[2]	Method	Analyte	Result[3]	Units	Flag[4]
SB-2	Y0EM3	04/17/2002	65	N	VOCs	1,1-Dichloroethane	2	ug/Kg	J
SB-2	Y0EM3	04/17/2002	65	N	VOCs	1,2-Dichloroethane	9	ug/Kg	J
SB-2	Y0EM3	04/17/2002	65	N	VOCs	Chlorobenzene	3	ug/Kg	J
SB-2	Y0EM3	04/17/2002	65	N	VOCs	Benzene	25	ug/Kg	
SB-2	Y0EM3	04/17/2002	65	N	VOCs	1,2-Dibromo-3-chloropropane (DBCP)	28	ug/Kg	
SB-2	Y0EM3	04/17/2002	65	N	VOCs	1,2-Dibromoethane (EDB)	**78**	ug/Kg	
SB-2	Y0EM4	04/17/2002	65	FD	VOCs	1,2-Dichloropropane (DCP)	**1400**	ug/Kg	E
SB-2	Y0EM4	04/17/2002	65	FD	VOCs	Acetone	6	ug/Kg	J
SB-2	Y0EM4	04/17/2002	65	FD	VOCs	Trichlorofluoromethane	8	ug/Kg	J
SB-2	Y0EM4	04/17/2002	65	FD	VOCs	1,2-Dichloroethane	4	ug/Kg	J
SB-2	Y0EM4	04/17/2002	65	FD	VOCs	Toluene	4	ug/Kg	J
SB-2	Y0EM4	04/17/2002	65	FD	VOCs	Chlorobenzene	2	ug/Kg	J
SB-2	Y0EM4	04/17/2002	65	FD	VOCs	Benzene	12	ug/Kg	
SB-2	Y0EM4	04/17/2002	65	FD	VOCs	1,2-Dibromo-3-chloropropane (DBCP)	13	ug/Kg	
SB-2	Y0EM4	04/17/2002	65	FD	VOCs	1,2-Dibromoethane (EDB)	**33**	ug/Kg	
SB-2	Y0EM5	04/17/2002	70	N	VOCs	1,2-Dichloropropane (DCP)	**1300**	ug/Kg	E
SB-2	Y0EM5	04/17/2002	70	N	VOCs	Toluene	9	ug/Kg	J
SB-2	Y0EM7	04/18/2002	75	N	VOCs	1,2-Dichloropropane (DCP)	**1400**	ug/Kg	E
SB-2	Y0EM7	04/18/2002	75	N	VOCs	Benzene	10	ug/Kg	J
SB-2	Y0EM7	04/18/2002	75	N	VOCs	Acetone	4	ug/Kg	J
SB-2	Y0EM7	04/18/2002	75	N	VOCs	Trichlorofluoromethane	3	ug/Kg	J
SB-2	Y0EM7	04/18/2002	75	N	VOCs	1,2-Dichloroethane	3	ug/Kg	J
SB-2	Y0EM7	04/18/2002	75	N	VOCs	1,2-Dibromo-3-chloropropane (DBCP)	20	ug/Kg	
SB-2	Y0EM7	04/18/2002	75	N	VOCs	1,2-Dibromoethane (EDB)	**36**	ug/Kg	
SB-2	Y0EM8	04/18/2002	80	N	VOCs	Acetone	9	ug/Kg	J
SB-2	Y0EM8	04/18/2002	80	N	VOCs	Trichlorofluoromethane	9	ug/Kg	J
SB-2	Y0EM8	04/18/2002	80	N	VOCs	1,2-Dichloropropane (DCP)	17	ug/Kg	
SB-2	Y0EN1	04/18/2002	90	N	VOCs	Acetone	8	ug/Kg	J
SB-2	Y0EN1	04/18/2002	90	N	VOCs	Trichlorofluoromethane	13	ug/Kg	J
SB-2	Y0EN1	04/18/2002	90	N	VOCs	Toluene	6	ug/Kg	J
SB-2	Y0EN1	04/18/2002	90	N	VOCs	Trichlorofluoromethane	10	ug/Kg	J
SB-2	Y0EN1	04/18/2002	90	N	VOCs	Toluene	3	ug/Kg	J
SB-2	Y0EN2	04/18/2002	95	N	VOCs	Benzene	1	ug/Kg	J

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Chemicals Detected in Soil Boring Soil Samples

Location ID	Sample ID	Sample Date	Depth (ft bgs)	QA/QC Type[2]	Method	Analyte	Result[3]	Units	Flag[4]
SB-2	Y0EN2	04/18/2002	95	N	VOCs	Acetone	7	ug/Kg	J
SB-2	Y0EN2	04/18/2002	95	N	VOCs	1,2-Dibromo-3-chloropropane (DBCP)	3	ug/Kg	J
SB-2	Y0EN2	04/18/2002	95	N	VOCs	1,2-Dibromoethane (EDB)	9	ug/Kg	J
SB-2	Y0EN2	04/18/2002	95	N	VOCs	1,2-Dichloropropane (DCP)	140	ug/Kg	
SB-2	Y0EN2	04/18/2002	95	N	VOCs	Trichlorofluoromethane	10	ug/Kg	
SB-2	Y0EN3	04/18/2002	100	N	VOCs	Acetone	5	ug/Kg	J
SB-2	Y0EN3	04/18/2002	100	N	VOCs	Trichlorofluoromethane	6	ug/Kg	J
SB-2	Y0EN4	04/18/2002	105	N	VOCs	Acetone	11	ug/Kg	J
SB-2	Y0EN4	04/18/2002	105	N	VOCs	Trichlorofluoromethane	11	ug/Kg	J
SB-2	Y0EN5	04/18/2002	110	N	VOCs	Acetone	4	ug/Kg	J
SB-2	Y0EN5	04/18/2002	110	N	VOCs	Trichlorofluoromethane	1	ug/Kg	J
SB-2	Y0EN6	04/18/2002	110	FD	VOCs	Trichlorofluoromethane	8	ug/Kg	J
SB-2	Y0EN7	04/18/2002	115	N	VOCs	Trichlorofluoromethane	3	ug/Kg	J
SB-2	Y0EP2	04/18/2002	135	N	VOCs	Trichlorofluoromethane	4	ug/Kg	J
SB-2	Y0EP1	04/18/2002	140	N	VOCs	Trichlorofluoromethane	8	ug/Kg	J
SB-2	Y0EP5	04/19/2002	145	N	VOCs	Trichlorofluoromethane	5	ug/Kg	J
SB-3	Y0EP8	04/15/2002	30	N	VOCs	Acetone	13	ug/Kg	J
SB-3	Y0EP8	04/15/2002	30	N	VOCs	Trichlorofluoromethane	6	ug/Kg	J
SB-3	Y0EP8	04/15/2002	30	N	VOCs	1,2-Dibromo-3-chloropropane (DBCP)	2	ug/Kg	J
SB-3	Y0EP8	04/15/2002	30	N	VOCs	1,2-Dichloropropane (DCP)	18	ug/Kg	
SB-3	Y0EP9	04/15/2002	30	FD	VOCs	Acetone	11	ug/Kg	J
SB-3	Y0EP9	04/15/2002	30	FD	VOCs	Trichlorofluoromethane	3	ug/Kg	J
SB-3	Y0EP9	04/15/2002	30	FD	VOCs	1,2-Dichloropropane (DCP)	22	ug/Kg	
SB-3	Y0EQ0	04/15/2002	35	N	VOCs	Acetone	14	ug/Kg	J
SB-3	Y0EQ0	04/15/2002	35	N	VOCs	Trichlorofluoromethane	8	ug/Kg	J
SB-3	Y0EQ0	04/15/2002	35	N	VOCs	1,2-Dichloropropane (DCP)	5	ug/Kg	J
SB-3	Y0EQ0	04/15/2002	35	N	VOCs	Toluene	2	ug/Kg	J
SB-3	Y0EQ2	04/15/2002	40	N	VOCs	Acetone	14	ug/Kg	J
SB-3	Y0EQ2	04/15/2002	40	N	VOCs	Trichlorofluoromethane	9	ug/Kg	J
SB-3	Y0EQ2	04/15/2002	40	N	VOCs	Toluene	2	ug/Kg	J
SB-3	Y0EQ4	04/15/2002	45	N	VOCs	Acetone	11	ug/Kg	J
SB-3	Y0EQ4	04/15/2002	45	N	VOCs	Trichlorofluoromethane	6	ug/Kg	J
SB-3	Y0EQ4	04/15/2002	45	N	VOCs	Toluene	2	ug/Kg	J

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Chemicals Detected in Soil Boring Soil Samples

Location ID	Sample ID	Sample Date	Depth (ft bgs)	QA/QC Type[2]	Method	Analyte	Result[3]	Units	Flag[4]
SB-3	Y0EQ5	04/15/2002	50	N	VOCs	Acetone	12	ug/Kg	J
SB-3	Y0EQ5	04/15/2002	50	N	VOCs	Trichlorofluoromethane	7	ug/Kg	J
SB-3	Y0EQ6	04/15/2002	55	N	VOCs	Acetone	8	ug/Kg	J
SB-3	Y0EQ6	04/15/2002	55	N	VOCs	Trichlorofluoromethane	5	ug/Kg	J
SB-3	Y0EQ6	04/15/2002	55	N	VOCs	Toluene	1	ug/Kg	J
SB-3	Y0EQ7	04/15/2002	60	N	VOCs	Acetone	11	ug/Kg	J
SB-3	Y0EQ7	04/15/2002	60	N	VOCs	Trichlorofluoromethane	7	ug/Kg	J
SB-3	Y0EQ7	04/15/2002	60	N	VOCs	Toluene	1	ug/Kg	J
SB-3	Y0EQ8	04/15/2002	60	FD	VOCs	Acetone	10	ug/Kg	J
SB-3	Y0EQ8	04/15/2002	60	FD	VOCs	Trichlorofluoromethane	6	ug/Kg	J
SB-3	Y0EQ8	04/15/2002	60	FD	VOCs	Toluene	1	ug/Kg	J
SB-3	Y0EQ9	04/15/2002	65	N	VOCs	Acetone	11	ug/Kg	J
SB-3	Y0EQ9	04/15/2002	65	N	VOCs	Trichlorofluoromethane	6	ug/Kg	J
SB-3	Y0EQ9	04/15/2002	65	N	VOCs	Toluene	1	ug/Kg	J
SB-3	Y0EQ9	04/15/2002	65	N	VOCs	1,2-Dichloropropane (DCP)	69	ug/Kg	
SB-3	Y0ER1	04/15/2002	70	N	VOCs	Acetone	14	ug/Kg	J
SB-3	Y0ER1	04/15/2002	70	N	VOCs	Trichlorofluoromethane	8	ug/Kg	J
SB-3	Y0ER1	04/15/2002	70	N	VOCs	1,2-Dichloropropane (DCP)	5	ug/Kg	J
SB-3	Y0ER1	04/15/2002	70	N	VOCs	Toluene	3	ug/Kg	J
SB-3	Y0ER2	04/15/2002	75	N	VOCs	Acetone	7	ug/Kg	J
SB-3	Y0ER2	04/15/2002	75	N	VOCs	Trichlorofluoromethane	1	ug/Kg	J
SB-3	Y0ER2	04/15/2002	75	N	VOCs	1,2-Dibromo-3-chloropropane (DBCP)	2	ug/Kg	J
SB-3	Y0ER2	04/15/2002	75	N	VOCs	1,2-Dibromoethane (EDB)	5	ug/Kg	J
SB-3	Y0ER2	04/15/2002	75	N	VOCs	1,2-Dichloropropane (DCP)	130	ug/Kg	
SB-3	Y0ER4	04/15/2002	80	N	VOCs	Acetone	10	ug/Kg	J
SB-3	Y0ER4	04/15/2002	80	N	VOCs	Trichlorofluoromethane	4	ug/Kg	J
SB-3	Y0ER4	04/15/2002	80	N	VOCs	1,2-Dichloropropane (DCP)	20	ug/Kg	
SB-3	Y0ER5	04/15/2002	85	N	VOCs	Acetone	17	ug/Kg	J
SB-3	Y0ER5	04/15/2002	85	N	VOCs	Trichlorofluoromethane	3	ug/Kg	J
SB-3	Y0ER6	04/15/2002	90	N	VOCs	Acetone	18	ug/Kg	J
SB-3	Y0ER6	04/15/2002	90	N	VOCs	Trichlorofluoromethane	6	ug/Kg	J
SB-3	Y0ER7	04/15/2002	95	N	VOCs	Acetone	19	ug/Kg	J
SB-3	Y0ER7	04/15/2002	95	N	VOCs	Trichlorofluoromethane	7	ug/Kg	J

Table 4-2
Chemicals Detected in Soil Boring Soil Samples

Location ID	Sample ID	Sample Date	Depth (ft bgs)	QA/QC Type[2]	Method	Analyte	Result[3]	Units	Flag[4]
SB-3	Y0ER8	04/15/2002	100	N	VOCs	Acetone	17	ug/Kg	J
SB-3	Y0ER8	04/15/2002	100	N	VOCs	Trichlorofluoromethane	4	ug/Kg	J
SB-3	Y0ER9	04/16/2002	105	N	VOCs	Acetone	8	ug/Kg	J
SB-3	Y0ER9	04/16/2002	105	N	VOCs	Dichloromethane	42	ug/Kg	J
SB-3	Y0ES0	04/16/2002	110	N	VOCs	Acetone	7	ug/Kg	J
SB-3	Y0ES1	04/16/2002	115	N	VOCs	Dichloromethane	110	ug/Kg	B
SB-3	Y0ES1	04/16/2002	115	N	VOCs	Trichlorofluoromethane	1	ug/Kg	J
SB-3	Y0ES1	04/16/2002	115	N	VOCs	Acetone	14	ug/Kg	
SB-3	Y0ES2	04/16/2002	115	FD	VOCs	Dichloromethane	80	ug/Kg	B
SB-3	Y0ES2	04/16/2002	115	FD	VOCs	Trichlorofluoromethane	2	ug/Kg	J
SB-3	Y0ES2	04/16/2002	115	FD	VOCs	Acetone	13	ug/Kg	
SB-3	Y0ES3	04/16/2002	120	N	VOCs	Dichloromethane	87	ug/Kg	B
SB-3	Y0ES3	04/16/2002	120	N	VOCs	Acetone	12	ug/Kg	
SB-3	Y0ES5	04/16/2002	125	N	VOCs	Dichloromethane	97	ug/Kg	B
SB-3	Y0ES5	04/16/2002	125	N	VOCs	Acetone	14	ug/Kg	
SB-3	Y0ES9	04/16/2002	142	N	VOCs	Dichloromethane	84	ug/Kg	B
SB-3	Y0ES9	04/16/2002	142	N	VOCs	Acetone	12	ug/Kg	
SB-3	Y0ET0	04/16/2002	145	N	VOCs	Dichloromethane	110	ug/Kg	B
SB-3	Y0ET0	04/16/2002	145	N	VOCs	Trichlorofluoromethane	3	ug/Kg	J
SB-3	Y0ET0	04/16/2002	145	N	VOCs	Xylenes (total)	3	ug/Kg	J
SB-3	Y0ET0	04/16/2002	145	N	VOCs	Toluene	5	ug/Kg	J
SB-3	Y0ET0	04/16/2002	145	N	VOCs	Acetone	12	ug/Kg	
SB-3	Y0ET1	04/16/2002	150	N	VOCs	Dichloromethane	93	ug/Kg	B
SB-3	Y0ET1	04/16/2002	150	N	VOCs	Acetone	11	ug/Kg	
SB-3	Y0ET2	04/16/2002	155	N	VOCs	Dichloromethane	87	ug/Kg	B
SB-3	Y0ET2	04/16/2002	155	N	VOCs	Toluene	1	ug/Kg	J
SB-3	Y0ET2	04/16/2002	155	N	VOCs	Acetone	14	ug/Kg	
SB-4	Y0ET3	04/10/2002	30	N	VOCs	Acetone	12	ug/Kg	
SB-4	Y0ET3	04/10/2002	30	N	VOCs	Trichlorofluoromethane	18	ug/Kg	
SB-4	Y0ET5	04/10/2002	35	N	VOCs	1,2-Dichloropropane (DCP)	35	ug/Kg	
SB-4	Y0ET6	04/10/2002	35	FD	VOCs	Trichlorofluoromethane	1	ug/Kg	J
SB-4	Y0ET6	04/10/2002	35	FD	VOCs	1,2-Dichloropropane (DCP)	42	ug/Kg	
SB-4	Y0ET7	04/10/2002	40	N	VOCs	1,2-Dichloropropane (DCP)	20	ug/Kg	

Table 4-2
Chemicals Detected in Soil Boring Soil Samples

Location ID	Sample ID	Sample Date	Depth (ft bgs)	QA/QC Type[2]	Method	Analyte	Result[3]	Units	Flag[4]
SB-4	Y0ET9	04/10/2002	50	N	VOCs	Trichlorofluoromethane	3	ug/Kg	J
SB-4	Y0EW1	04/11/2002	55	N	VOCs	Acetone	4	ug/Kg	J
SB-4	Y0EW1	04/11/2002	55	N	VOCs	Trichlorofluoromethane	12	ug/Kg	
SB-4	Y0EW2	04/11/2002	60	N	VOCs	Acetone	2	ug/Kg	J
SB-4	Y0EW2	04/11/2002	60	N	VOCs	1,2-Dichloropropane (DCP)	9	ug/Kg	J
SB-4	Y0EW2	04/11/2002	60	N	VOCs	Trichlorofluoromethane	2	ug/Kg	J
SB-4	Y0EW3	04/11/2002	65	N	VOCs	Acetone	3	ug/Kg	J
SB-4	Y0EW3	04/11/2002	65	N	VOCs	1,2-Dichloropropane (DCP)	87	ug/Kg	
SB-4	Y0EW4	04/11/2002	70	N	VOCs	Dichloromethane	960	ug/Kg	J
SB-4	Y0EW4	04/11/2002	70	N	VOCs	Acetone	1000	ug/Kg	J
SB-4	Y0EW4	04/11/2002	70	N	VOCs	1,2-Dichloropropane (DCP)	310	ug/Kg	J
SB-4	Y0EW6	04/11/2002	75	N	VOCs	Acetone	6	ug/Kg	J
SB-4	Y0EW6	04/11/2002	75	N	VOCs	1,2-Dichloropropane (DCP)	170	ug/Kg	
SB-4	Y0EW7	04/11/2002	80	N	VOCs	Acetone	7	ug/Kg	J
SB-4	Y0EW7	04/11/2002	80	N	VOCs	Trichlorofluoromethane	15	ug/Kg	
SB-4	Y0EW8	04/11/2002	80	FD	VOCs	Acetone	3	ug/Kg	J
SB-4	Y0EW8	04/11/2002	80	FD	VOCs	Trichlorofluoromethane	2	ug/Kg	J
SB-4	Y0EW9	04/11/2002	85	N	VOCs	Acetone	4	ug/Kg	J
SB-4	Y0EW9	04/11/2002	85	N	VOCs	Trichlorofluoromethane	13	ug/Kg	
SB-4	Y0EX1	04/11/2002	90	N	VOCs	Acetone	4	ug/Kg	J
SB-4	Y0EX1	04/11/2002	90	N	VOCs	Trichlorofluoromethane	8	ug/Kg	J
SB-4	Y0EX2	04/11/2002	95	N	VOCs	Acetone	3	ug/Kg	J
SB-4	Y0EX2	04/11/2002	95	N	VOCs	Trichlorofluoromethane	1	ug/Kg	J
SB-4	Y0EX3	04/11/2002	100	N	VOCs	Acetone	3	ug/Kg	J
SB-4	Y0EX4	04/11/2002	105	N	VOCs	Acetone	2	ug/Kg	J
SB-4	Y0EX5	04/11/2002	110	N	VOCs	Acetone	12	ug/Kg	
SB-4	Y0EX5	04/11/2002	110	N	VOCs	Trichlorofluoromethane	12	ug/Kg	
SB-4	Y0EX8	04/11/2002	120	N	VOCs	Acetone	4	ug/Kg	J
SB-4	Y0EX9	04/12/2002	125	N	VOCs	Acetone	8	ug/Kg	J
SB-4	Y0EY1	04/12/2002	130	N	VOCs	Acetone	17	ug/Kg	
SB-4	Y0EY2	04/12/2002	135	N	VOCs	Acetone	11	ug/Kg	J
SB-4	Y0EY3	04/12/2002	140	N	VOCs	Acetone	11	ug/Kg	J

Table 4-2
Chemicals Detected in Soil Boring Soil Samples

Location ID	Sample ID	Sample Date	Depth (ft bgs)	QA/QC Type[2]	Method	Analyte	Result[3]	Units	Flag[4]

Notes:

1.The 85 ft and 120 ft samples at SB-2 were rejected during data validation.

2. QA/QC Type:

N = sample

FD = field duplicate

3. Bolded result indicates exceedance of Industrial Soil PRG, see Table 2-1.

4. Lab Flag Description:

J = The amount detected is less than the quantitation limit and is only an estimated value.

E =The amount detected exceeds the calibration range of the instrument.

B = This analyte was detected in the associated method blank.

Table 4-3
Soil Sample Collection and Analyses for Physical Properties

Location ID	Sample ID	Sample Date	Depth (ft bgs)	QA/QC Type[1]	Method	Analyte
SB-1	SB1-1	04/05/2002	41	N	ASA#9 30.2	Bulk Density
SB-1	SB1-1	04/05/2002	41	N	ASA#9	Porosity
SB-1	SB1-1	04/05/2002	41	N	ASA#9	Specific Gravity
SB-1	SB1-1	04/25/2002	41	N	ASTM D4129-8	Carbon, Total Organic
SB-1	SB1-1	04/22/2002	41	N	160.3M	Total Solids
SB-1	SB1-2	04/25/2002	55.5	N	ASTM D4129-8	Carbon, Total Organic
SB-1	SB1-2	04/05/2002	55.5	N	ASA#9	Specific Gravity
SB-1	SB1-2	04/05/2002	55.5	N	ASA#9 30.2	Bulk Density
SB-1	SB1-2	04/05/2002	55.5	N	ASA#9	Porosity
SB-1	SB1-2	04/22/2002	55.5	N	160.3M	Total Solids
SB-1	SB1-3	04/25/2002	70	N	ASTM D4129-8	Carbon, Total Organic
SB-1	SB1-3	04/05/2002	70	N	ASA#9 30.2	Bulk Density
SB-1	SB1-3	04/05/2002	70	N	ASA#9	Porosity
SB-1	SB1-3	04/05/2002	70	N	ASA#9	Specific Gravity
SB-1	SB1-3	04/22/2002	70	N	160.3M	Total Solids
SB-1	SB1-4	04/25/2002	72.5	N	ASTM D4129-8	Carbon, Total Organic
SB-1	SB1-4	04/05/2002	72.5	N	ASA#9	Specific Gravity
SB-1	SB1-4	04/05/2002	72.5	N	ASA#9	Porosity
SB-1	SB1-4	04/05/2002	72.5	N	ASA#9 30.2	Bulk Density
SB-1	SB1-4	04/22/2002	72.5	N	160.3M	Total Solids
SB-1	SB1-5	04/25/2002	78.5	N	ASTM D4129-8	Carbon, Total Organic
SB-1	SB1-5	04/05/2002	78.5	N	ASA#9	Specific Gravity
SB-1	SB1-5	04/05/2002	78.5	N	ASA#9	Porosity
SB-1	SB1-5	04/05/2002	78.5	N	ASA#9 30.2	Bulk Density
SB-1	SB1-5	04/22/2002	78.5	N	160.3M	Total Solids
SB-1	SB1-6	04/25/2002	83	N	ASTM D4129-8	Carbon, Total Organic
SB-1	SB1-6	04/05/2002	83	N	ASA#9	Specific Gravity
SB-1	SB1-6	04/05/2002	83	N	ASA#9	Porosity
SB-1	SB1-6	04/05/2002	83	N	ASA#9 30.2	Bulk Density
SB-1	SB1-6	04/22/2002	83	N	160.3M	Total Solids
SB-1	SB1-7	04/05/2002	94	N	ASA#9	Specific Gravity
SB-1	SB1-7	04/05/2002	94	N	ASA#9 30.2	Bulk Density
SB-1	SB1-7	04/25/2002	94	N	ASTM D4129-8	Carbon, Total Organic
SB-1	SB1-7	04/05/2002	94	N	ASA#9	Porosity
SB-1	SB1-7	04/22/2002	94	N	160.3M	Total Solids
SB-1	SB1-8	04/05/2002	111.5	N	ASA#9	Specific Gravity
SB-1	SB1-8	04/05/2002	111.5	N	ASA#9	Porosity
SB-1	SB1-8	04/05/2002	111.5	N	ASA#9 30.2	Bulk Density
SB-1	SB1-8	04/25/2002	111.5	N	ASTM D4129-8	Carbon, Total Organic
SB-1	SB1-8	04/22/2002	111.5	N	160.3M	Total Solids
SB-1	SB1-9	04/25/2002	113	N	ASTM D4129-8	Carbon, Total Organic
SB-1	SB1-9	04/05/2002	113	N	ASA#9	Specific Gravity
SB-1	SB1-9	04/05/2002	113	N	ASA#9	Porosity
SB-1	SB1-9	04/05/2002	113	N	ASA#9 30.2	Bulk Density
SB-1	SB1-9	04/22/2002	113	N	160.3M	Total Solids
SB-1	SB1-10	04/05/2002	132.5	N	ASA#9	Porosity
SB-1	SB1-10	04/05/2002	132.5	N	ASA#9 30.2	Bulk Density
SB-1	SB1-10	04/25/2002	132.5	N	ASTM D4129-8	Carbon, Total Organic

Table 4-3
Soil Sample Collection and Analyses for Physical Properties

Location ID	Sample ID	Sample Date	Depth (ft bgs)	QA/QC Type[1]	Method	Analyte
SB-1	SB1-10	04/05/2002	132.5	N	ASA#9	Specific Gravity
SB-1	SB1-10	04/22/2002	132.5	N	160.3M	Total Solids
SB-2	SB2-1	04/17/2002	43.5	N	ASA#9 30.2	Bulk Density
SB-2	SB2-1	04/17/2002	43.5	N	ASA#9	Porosity
SB-2	SB2-1	04/17/2002	43.5	N	ASA#9	Specific Gravity
SB-2	SB2-1	04/17/2002	43.5	N	9060M	Carbon, Total Organic
SB-2	SB2-1	04/17/2002	43.5	N	160.3M	Total Solids
SB-2	SB2-1	04/15/2002	43.5	N	160.3M	Total Solids
SB-2	SB2-2	04/17/2002	64.5	N	ASA#9	Specific Gravity
SB-2	SB2-2	04/17/2002	64.5	N	ASA#9	Porosity
SB-2	SB2-2	04/17/2002	64.5	N	ASA#9 30.2	Bulk Density
SB-2	SB2-2	04/17/2002	64.5	N	160.3M	Total Solids
SB-2	SB2-2	04/17/2002	64.5	N	9060M	Carbon, Total Organic
SB-2	SB2-3	04/17/2002	69	N	ASA#9	Specific Gravity
SB-2	SB2-3	04/17/2002	69	N	ASA#9	Porosity
SB-2	SB2-3	04/17/2002	69	N	ASA#9 30.2	Bulk Density
SB-2	SB2-3	04/17/2002	69	N	9060M	Carbon, Total Organic
SB-2	SB2-3	04/17/2002	69	N	160.3M	Total Solids
SB-2	SB2-4	04/18/2002	77	N	ASA#9	Specific Gravity
SB-2	SB2-4	04/18/2002	77	N	ASA#9	Porosity
SB-2	SB2-4	04/18/2002	77	N	ASA#9 30.2	Bulk Density
SB-2	SB2-4	04/18/2002	77	N	160.3M	Total Solids
SB-2	SB2-4	04/18/2002	77	N	9060M	Carbon, Total Organic
SB-2	SB2-5	04/18/2002	79	N	ASA#9 30.2	Bulk Density
SB-2	SB2-5	04/18/2002	79	N	ASA#9	Porosity
SB-2	SB2-5	04/18/2002	79	N	ASA#9	Specific Gravity
SB-2	SB2-5	04/18/2002	79	N	160.3M	Total Solids
SB-2	SB2-5	04/18/2002	79	N	9060M	Carbon, Total Organic
SB-2	SB2-6	04/18/2002	87.5	N	ASA#9	Specific Gravity
SB-2	SB2-6	04/18/2002	87.5	N	ASA#9	Porosity
SB-2	SB2-6	04/18/2002	87.5	N	ASA#9 30.2	Bulk Density
SB-2	SB2-6	04/18/2002	87.5	N	160.3M	Total Solids
SB-2	SB2-6	04/18/2002	87.5	N	9060M	Carbon, Total Organic
SB-2	SB2-7	04/18/2002	92	N	ASA#9	Porosity
SB-2	SB2-7	04/18/2002	92	N	ASA#9 30.2	Bulk Density
SB-2	SB2-7	04/18/2002	92	N	ASA#9	Specific Gravity
SB-2	SB2-7	04/18/2002	92	N	160.3M	Total Solids
SB-2	SB2-7	04/18/2002	92	N	9060M	Carbon, Total Organic
SB-2	SB2-8	04/18/2002	94	N	ASA#9 30.2	Bulk Density
SB-2	SB2-8	04/18/2002	94	N	ASA#9	Specific Gravity
SB-2	SB2-8	04/18/2002	94	N	ASA#9	Porosity
SB-2	SB2-8	04/18/2002	94	N	160.3M	Total Solids
SB-2	SB2-8	04/18/2002	94	N	9060M	Carbon, Total Organic
SB-2	SB2-9	04/18/2002	115	N	ASA#9	Porosity
SB-2	SB2-9	04/18/2002	115	N	ASA#9	Specific Gravity
SB-2	SB2-9	04/18/2002	115	N	ASA#9 30.2	Bulk Density
SB-2	SB2-9	04/18/2002	115	N	160.3M	Total Solids
SB-2	SB2-9	04/18/2002	115	N	9060M	Carbon, Total Organic

Table 4-3
Soil Sample Collection and Analyses for Physical Properties

Location ID	Sample ID	Sample Date	Depth (ft bgs)	QA/QC Type[1]	Method	Analyte
SB-2	SB2-10	04/18/2002	125	N	ASA#9	Porosity
SB-2	SB2-10	04/18/2002	125	N	ASA#9	Specific Gravity
SB-2	SB2-10	04/18/2002	125	N	ASA#9 30.2	Bulk Density
SB-2	SB2-11	04/19/2002	145	N	ASA#9 30.2	Bulk Density
SB-2	SB2-11	04/19/2002	145	N	ASA#9	Porosity
SB-2	SB2-11	04/19/2002	145	N	ASA#9	Specific Gravity
SB-2	SB2-11	04/19/2002	145	N	160.3M	Total Solids
SB-2	SB2-11	04/19/2002	145	N	9060M	Carbon, Total Organic
SB-3	SB3-1	04/15/2002	42.5	N	ASA#9 30.2	Bulk Density
SB-3	SB3-1	04/15/2002	42.5	N	ASA#9	Porosity
SB-3	SB3-1	04/15/2002	42.5	N	ASA#9	Specific Gravity
SB-3	SB3-1	04/15/2002	42.5	N	160.3M	Total Solids
SB-3	SB3-1	04/15/2002	42.5	N	160.3M	Total Solids
SB-3	SB3-1	04/15/2002	42.5	N	9060M	Carbon, Total Organic
SB-3	SB3-2	04/15/2002	52	N	ASA#9	Specific Gravity
SB-3	SB3-2	04/15/2002	52	N	ASA#9 30.2	Bulk Density
SB-3	SB3-2	04/15/2002	52	N	ASA#9	Porosity
SB-3	SB3-2	04/15/2002	52	N	160.3M	Total Solids
SB-3	SB3-2	04/15/2002	52	N	9060M	Carbon, Total Organic
SB-3	SB3-3	04/15/2002	73	N	ASA#9	Specific Gravity
SB-3	SB3-3	04/15/2002	73	N	ASA#9 30.2	Bulk Density
SB-3	SB3-3	04/15/2002	73	N	ASA#9	Porosity
SB-3	SB3-3	04/15/2002	73	N	160.3M	Total Solids
SB-3	SB3-3	04/15/2002	73	N	9060M	Carbon, Total Organic
SB-3	SB3-4	04/15/2002	74.5	N	ASA#9 30.2	Bulk Density
SB-3	SB3-4	04/15/2002	74.5	N	ASA#9	Porosity
SB-3	SB3-4	04/15/2002	74.5	N	ASA#9	Specific Gravity
SB-3	SB3-4	04/15/2002	74.5	N	160.3M	Total Solids
SB-3	SB3-4	04/15/2002	74.5	N	9060M	Carbon, Total Organic
SB-3	SB3-5	04/15/2002	89.5	N	ASA#9	Specific Gravity
SB-3	SB3-5	04/15/2002	89.5	N	ASA#9	Porosity
SB-3	SB3-5	04/15/2002	89.5	N	ASA#9 30.2	Bulk Density
SB-3	SB3-5	04/15/2002	89.5	N	160.3M	Total Solids
SB-3	SB3-5	04/15/2002	89.5	N	9060M	Carbon, Total Organic
SB-3	SB3-6	04/16/2002	109	N	ASA#9	Porosity
SB-3	SB3-6	04/16/2002	109	N	ASA#9 30.2	Bulk Density
SB-3	SB3-6	04/16/2002	109	N	ASA#9	Specific Gravity
SB-3	SB3-6	04/16/2002	109	N	160.3M	Total Solids
SB-3	SB3-6	04/16/2002	109	N	9060M	Carbon, Total Organic
SB-3	SB3-7	04/16/2002	115.5	N	ASA#9 30.2	Bulk Density
SB-3	SB3-7	04/16/2002	115.5	N	ASA#9	Specific Gravity
SB-3	SB3-7	04/16/2002	115.5	N	ASA#9	Porosity
SB-3	SB3-8	04/16/2002	142.5	N	ASA#9	Specific Gravity
SB-3	SB3-8	04/16/2002	142.5	N	ASA#9	Porosity
SB-3	SB3-8	04/16/2002	142.5	N	ASA#9 30.2	Bulk Density
SB-3	SB3-8	04/16/2002	142.5	N	160.3M	Total Solids
SB-3	SB3-8	04/16/2002	142.5	N	9060M	Carbon, Total Organic
SB-3	SB3-9	04/16/2002	144.5	N	ASA#9 30.2	Bulk Density

Table 4-3
Soil Sample Collection and Analyses for Physical Properties

Location ID	Sample ID	Sample Date	Depth (ft bgs)	QA/QC Type[1]	Method	Analyte
SB-3	SB3-9	04/16/2002	144.5	N	ASA#9	Porosity
SB-3	SB3-9	04/16/2002	144.5	N	ASA#9	Specific Gravity
SB-3	SB3-9	04/16/2002	144.5	N	160.3M	Total Solids
SB-3	SB3-9	04/16/2002	144.5	N	9060M	Carbon, Total Organic
SB-3	SB3-10	04/16/2002	154	N	ASA#9	Porosity
SB-3	SB3-10	04/16/2002	154	N	ASA#9 30.2	Bulk Density
SB-3	SB3-10	04/16/2002	154	N	ASA#9	Specific Gravity
SB-3	SB3-10	04/16/2002	154	N	160.3M	Total Solids
SB-3	SB3-10	04/16/2002	154	N	9060M	Carbon, Total Organic
SB-4	SB4-1	04/10/2002	36	N	ASA#9	Specific Gravity
SB-4	SB4-1	04/10/2002	36	N	ASA#9 30.2	Bulk Density
SB-4	SB4-1	04/10/2002	36	N	ASA#9	Porosity
SB-4	SB4-1	04/22/2002	36	N	160.3M	Total Solids
SB-4	SB4-1	04/25/2002	36	N	ASTM D4129-8	Carbon, Total Organic
SB-4	SB4-2	04/10/2002	43.5	N	ASA#9	Specific Gravity
SB-4	SB4-2	04/10/2002	43.5	N	ASA#9	Porosity
SB-4	SB4-2	04/10/2002	43.5	N	ASA#9 30.2	Bulk Density
SB-4	SB4-2	04/22/2002	43.5	N	160.3M	Total Solids
SB-4	SB4-2	04/25/2002	43.5	N	ASTM D4129-8	Carbon, Total Organic
SB-4	SB4-3	04/10/2002	49.5	N	ASA#9 30.2	Bulk Density
SB-4	SB4-3	04/10/2002	49.5	N	ASA#9	Specific Gravity
SB-4	SB4-3	04/10/2002	49.5	N	ASA#9	Porosity
SB-4	SB4-3	04/25/2002	49.5	N	ASTM D4129-8	Carbon, Total Organic
SB-4	SB4-3	04/22/2002	49.5	N	160.3M	Total Solids
SB-4	SB4-4	04/10/2002	62	N	ASA#9	Specific Gravity
SB-4	SB4-4	04/10/2002	62	N	ASA#9	Porosity
SB-4	SB4-4	04/10/2002	62	N	ASA#9 30.2	Bulk Density
SB-4	SB4-4	04/25/2002	62	N	ASTM D4129-8	Carbon, Total Organic
SB-4	SB4-4	04/22/2002	62	N	160.3M	Total Solids
SB-4	SB4-5	04/10/2002	73.5	N	ASA#9 30.2	Bulk Density
SB-4	SB4-5	04/10/2002	73.5	N	ASA#9	Porosity
SB-4	SB4-5	04/10/2002	73.5	N	ASA#9	Specific Gravity
SB-4	SB4-5	04/25/2002	73.5	N	ASTM D4129-8	Carbon, Total Organic
SB-4	SB4-5	04/22/2002	73.5	N	160.3M	Total Solids
SB-4	SB4-6	04/10/2002	84	N	ASA#9 30.2	Bulk Density
SB-4	SB4-6	04/10/2002	84	N	ASA#9	Porosity
SB-4	SB4-6	04/10/2002	84	N	ASA#9	Specific Gravity
SB-4	SB4-6	04/25/2002	84	N	ASTM D4129-8	Carbon, Total Organic
SB-4	SB4-6	04/22/2002	84	N	160.3M	Total Solids
SB-4	SB4-7	04/10/2002	109.5	N	ASA#9 30.2	Bulk Density
SB-4	SB4-7	04/10/2002	109.5	N	ASA#9	Porosity
SB-4	SB4-7	04/10/2002	109.5	N	ASA#9	Specific Gravity
SB-4	SB4-7	04/25/2002	109.5	N	ASTM D4129-8	Carbon, Total Organic
SB-4	SB4-7	04/22/2002	109.5	N	160.3M	Total Solids
SB-4	SB4-8	04/10/2002	116.5	N	ASA#9 30.2	Bulk Density
SB-4	SB4-8	04/10/2002	116.5	N	ASA#9	Specific Gravity
SB-4	SB4-8	04/10/2002	116.5	N	ASA#9	Porosity
SB-4	SB4-8	04/25/2002	116.5	N	ASTM D4129-8	Carbon, Total Organic

Table 4-3
Soil Sample Collection and Analyses for Physical Properties

Location ID	Sample ID	Sample Date	Depth (ft bgs)	QA/QC Type[1]	Method	Analyte
SB-4	SB4-8	04/22/2002	116.5	N	160.3M	Total Solids
SB-4	SB4-9	04/10/2002	120.5	N	ASA#9 30.2	Bulk Density
SB-4	SB4-9	04/10/2002	120.5	N	ASA#9	Porosity
SB-4	SB4-9	04/10/2002	120.5	N	ASA#9	Specific Gravity
SB-4	SB4-10	04/10/2002	126	N	ASA#9 30.2	Bulk Density
SB-4	SB4-10	04/10/2002	126	N	ASA#9	Porosity
SB-4	SB4-10	04/10/2002	126	N	ASA#9	Specific Gravity
SB-4	SB4-10	04/25/2002	126	N	ASTM D4129-8	Carbon, Total Organic
SB-4	SB4-10	04/22/2002	126	N	160.3M	Total Solids
SB-4	SB4-11	04/10/2002	136.5	N	ASA#9	Specific Gravity
SB-4	SB4-11	04/10/2002	136.5	N	ASA#9 30.2	Bulk Density
SB-4	SB4-11	04/10/2002	136.5	N	ASA#9	Porosity
SB-4	SB4-11	04/25/2002	136.5	N	ASTM D4129-8	Carbon, Total Organic
SB-4	SB4-11	04/22/2002	136.5	N	160.3M	Total Solids

1. QA/QC Type:
N = sample

Table 4-4
Physical Properties of Soil Samples

Location ID	Sample ID	Sample Date	Depth (ft bgs)	QA/QC Type[1]	Method	Analyte	Result	Units
SB-1	SB1-1	04/05/2002	41	N	ASA#9 30.2	Bulk Density	1.55	g/cm3
SB-1	SB1-1	04/05/2002	41	N	ASA#9	Porosity	42.2	Percent
SB-1	SB1-1	04/05/2002	41	N	ASA#9	Specific Gravity	2.68	g/cm3
SB-1	SB1-1	04/25/2002	41	N	ASTM D4129-8	Carbon, Total Organic	0.11	Percent
SB-1	SB1-1	04/22/2002	41	N	160.3M	Total Solids	80.1	Percent
SB-1	SB1-2	04/22/2002	55.5	N	160.3M	Total Solids	80.8	Percent
SB-1	SB1-2	04/25/2002	55.5	N	ASTM D4129-8	Carbon, Total Organic	0.06	Percent
SB-1	SB1-2	04/05/2002	55.5	N	ASA#9	Specific Gravity	2.71	g/cm3
SB-1	SB1-2	04/05/2002	55.5	N	ASA#9 30.2	Bulk Density	1.66	g/cm3
SB-1	SB1-2	04/05/2002	55.5	N	ASA#9	Porosity	38.7	Percent
SB-1	SB1-3	04/22/2002	70	N	160.3M	Total Solids	78.8	Percent
SB-1	SB1-3	04/25/2002	70	N	ASTM D4129-8	Carbon, Total Organic	0.1	Percent
SB-1	SB1-3	04/05/2002	70	N	ASA#9 30.2	Bulk Density	1.54	g/cm3
SB-1	SB1-3	04/05/2002	70	N	ASA#9	Porosity	43	Percent
SB-1	SB1-3	04/05/2002	70	N	ASA#9	Specific Gravity	2.7	g/cm3
SB-1	SB1-4	04/25/2002	72.5	N	ASTM D4129-8	Carbon, Total Organic	0.06	Percent
SB-1	SB1-4	04/22/2002	72.5	N	160.3M	Total Solids	83.1	Percent
SB-1	SB1-4	04/05/2002	72.5	N	ASA#9	Specific Gravity	2.71	g/cm3
SB-1	SB1-4	04/05/2002	72.5	N	ASA#9	Porosity	37.3	Percent
SB-1	SB1-4	04/05/2002	72.5	N	ASA#9 30.2	Bulk Density	1.7	g/cm3
SB-1	SB1-5	04/22/2002	78.5	N	160.3M	Total Solids	78.2	Percent
SB-1	SB1-5	04/25/2002	78.5	N	ASTM D4129-8	Carbon, Total Organic	0.17	Percent
SB-1	SB1-5	04/05/2002	78.5	N	ASA#9	Specific Gravity	2.68	g/cm3
SB-1	SB1-5	04/05/2002	78.5	N	ASA#9	Porosity	44.8	Percent
SB-1	SB1-5	04/05/2002	78.5	N	ASA#9 30.2	Bulk Density	1.48	g/cm3
SB-1	SB1-6	04/22/2002	83	N	160.3M	Total Solids	82.1	Percent
SB-1	SB1-6	04/25/2002	83	N	ASTM D4129-8	Carbon, Total Organic	0.11	Percent
SB-1	SB1-6	04/05/2002	83	N	ASA#9	Specific Gravity	2.68	g/cm3
SB-1	SB1-6	04/05/2002	83	N	ASA#9	Porosity	39.6	Percent
SB-1	SB1-6	04/05/2002	83	N	ASA#9 30.2	Bulk Density	1.62	g/cm3
SB-1	SB1-7	04/22/2002	94	N	160.3M	Total Solids	75.5	Percent
SB-1	SB1-7	04/05/2002	94	N	ASA#9	Specific Gravity	2.67	g/cm3
SB-1	SB1-7	04/05/2002	94	N	ASA#9 30.2	Bulk Density	1.3	g/cm3

Table 4-4
Physical Properties of Soil Samples

Location ID	Sample ID	Sample Date	Depth (ft bgs)	QA/QC Type[1]	Method	Analyte	Result	Units
SB-1	SB1-7	04/25/2002	94	N	ASTM D4129-8	Carbon, Total Organic	0.12	Percent
SB-1	SB1-7	04/05/2002	94	N	ASA#9	Porosity	51.3	Percent
SB-1	SB1-8	04/22/2002	111.5	N	160.3M	Total Solids	80.5	Percent
SB-1	SB1-8	04/05/2002	111.5	N	ASA#9	Specific Gravity	2.69	g/cm3
SB-1	SB1-8	04/05/2002	111.5	N	ASA#9	Porosity	31.6	Percent
SB-1	SB1-8	04/05/2002	111.5	N	ASA#9 30.2	Bulk Density	1.84	g/cm3
SB-1	SB1-8	04/25/2002	111.5	N	ASTM D4129-8	Carbon, Total Organic	0.06	Percent
SB-1	SB1-9	04/25/2002	113	N	ASTM D4129-8	Carbon, Total Organic	0.11	Percent
SB-1	SB1-9	04/05/2002	113	N	ASA#9	Specific Gravity	2.71	g/cm3
SB-1	SB1-9	04/05/2002	113	N	ASA#9	Porosity	21.4	Percent
SB-1	SB1-9	04/05/2002	113	N	ASA#9 30.2	Bulk Density	2.13	g/cm3
SB-1	SB1-9	04/22/2002	113	N	160.3M	Total Solids	91.8	Percent
SB-1	SB1-10	04/05/2002	132.5	N	ASA#9	Porosity	44.8	Percent
SB-1	SB1-10	04/05/2002	132.5	N	ASA#9 30.2	Bulk Density	1.49	g/cm3
SB-1	SB1-10	04/22/2002	132.5	N	160.3M	Total Solids	77.1	Percent
SB-1	SB1-10	04/25/2002	132.5	N	ASTM D4129-8	Carbon, Total Organic	0.05	Percent
SB-1	SB1-10	04/05/2002	132.5	N	ASA#9	Specific Gravity	2.7	g/cm3
SB-2	SB2-1	04/17/2002	43.5	N	ASA#9 30.2	Bulk Density	1.61	g/cm3
SB-2	SB2-1	04/17/2002	43.5	N	ASA#9	Porosity	39.7	Percent
SB-2	SB2-1	04/17/2002	43.5	N	ASA#9	Specific Gravity	2.67	g/cm3
SB-2	SB2-1	04/17/2002	43.5	N	9060M	Carbon, Total Organic	0.11	Percent
SB-2	SB2-1	04/17/2002	43.5	N	160.3M	Total Solids	77.8	Percent
SB-2	SB2-1	04/15/2002	43.5	N	160.3M	Total Solids	76.7	Percent
SB-2	SB2-2	04/17/2002	64.5	N	ASA#9	Specific Gravity	2.68	g/cm3
SB-2	SB2-2	04/17/2002	64.5	N	ASA#9	Porosity	44	Percent
SB-2	SB2-2	04/17/2002	64.5	N	ASA#9 30.2	Bulk Density	1.5	g/cm3
SB-2	SB2-2	04/17/2002	64.5	N	160.3M	Total Solids	80.5	Percent
SB-2	SB2-2	04/17/2002	64.5	N	9060M	Carbon, Total Organic	1.77	Percent
SB-2	SB2-3	04/17/2002	69	N	ASA#9	Specific Gravity	2.67	g/cm3
SB-2	SB2-3	04/17/2002	69	N	ASA#9	Porosity	45.3	Percent
SB-2	SB2-3	04/17/2002	69	N	ASA#9 30.2	Bulk Density	1.46	g/cm3
SB-2	SB2-3	04/17/2002	69	N	9060M	Carbon, Total Organic	0.13	Percent
SB-2	SB2-3	04/17/2002	69	N	160.3M	Total Solids	75.2	Percent

Table 4-4
Physical Properties of Soil Samples

Location ID	Sample ID	Sample Date	Depth (ft bgs)	QA/QC Type[1]	Method	Analyte	Result	Units
SB-2	SB2-4	04/18/2002	77	N	ASA#9	Specific Gravity	2.67	g/cm3
SB-2	SB2-4	04/18/2002	77	N	ASA#9	Porosity	41.2	Percent
SB-2	SB2-4	04/18/2002	77	N	ASA#9 30.2	Bulk Density	1.57	g/cm3
SB-2	SB2-4	04/18/2002	77	N	160.3M	Total Solids	81.8	Percent
SB-2	SB2-4	04/18/2002	77	N	9060M	Carbon, Total Organic	0.1	Percent
SB-2	SB2-5	04/18/2002	79	N	ASA#9 30.2	Bulk Density	1.49	g/cm3
SB-2	SB2-5	04/18/2002	79	N	160.3M	Total Solids	79.4	Percent
SB-2	SB2-5	04/18/2002	79	N	ASA#9	Porosity	44.2	Percent
SB-2	SB2-5	04/18/2002	79	N	9060M	Carbon, Total Organic	0.1	Percent
SB-2	SB2-5	04/18/2002	79	N	ASA#9	Specific Gravity	2.67	g/cm3
SB-2	SB2-6	04/18/2002	87.5	N	ASA#9	Specific Gravity	2.66	g/cm3
SB-2	SB2-6	04/18/2002	87.5	N	160.3M	Total Solids	76.6	Percent
SB-2	SB2-6	04/18/2002	87.5	N	9060M	Carbon, Total Organic	0.16	Percent
SB-2	SB2-6	04/18/2002	87.5	N	ASA#9	Porosity	45.1	Percent
SB-2	SB2-6	04/18/2002	87.5	N	ASA#9 30.2	Bulk Density	1.46	g/cm3
SB-2	SB2-7	04/18/2002	92	N	ASA#9	Porosity	43.6	Percent
SB-2	SB2-7	04/18/2002	92	N	9060M	Carbon, Total Organic	0.09	Percent
SB-2	SB2-7	04/18/2002	92	N	160.3M	Total Solids	80.7	Percent
SB-2	SB2-7	04/18/2002	92	N	ASA#9 30.2	Bulk Density	1.5	g/cm3
SB-2	SB2-7	04/18/2002	92	N	ASA#9	Specific Gravity	2.66	g/cm3
SB-2	SB2-8	04/18/2002	94	N	160.3M	Total Solids	81.1	Percent
SB-2	SB2-8	04/18/2002	94	N	9060M	Carbon, Total Organic	0.13	Percent
SB-2	SB2-8	04/18/2002	94	N	ASA#9 30.2	Bulk Density	1.59	g/cm3
SB-2	SB2-8	04/18/2002	94	N	ASA#9	Specific Gravity	2.6	g/cm3
SB-2	SB2-8	04/18/2002	94	N	ASA#9	Porosity	38.8	Percent
SB-2	SB2-9	04/18/2002	115	N	160.3M	Total Solids	85	Percent
SB-2	SB2-9	04/18/2002	115	N	9060M	Carbon, Total Organic	0.07	Percent
SB-2	SB2-9	04/18/2002	115	N	ASA#9	Porosity	29.2	Percent
SB-2	SB2-9	04/18/2002	115	N	ASA#9	Specific Gravity	2.67	g/cm3
SB-2	SB2-9	04/18/2002	115	N	ASA#9 30.2	Bulk Density	1.89	g/cm3
SB-2	SB2-10	04/18/2002	125	N	ASA#9	Porosity	31.2	Percent
SB-2	SB2-10	04/18/2002	125	N	ASA#9	Specific Gravity	2.69	g/cm3
SB-2	SB2-10	04/18/2002	125	N	ASA#9 30.2	Bulk Density	1.85	g/cm3

Table 4-4
Physical Properties of Soil Samples

Location ID	Sample ID	Sample Date	Depth (ft bgs)	QA/QC Type[1]	Method	Analyte	Result	Units
SB-2	SB2-11	04/19/2002	145	N	160.3M	Total Solids	76	Percent
SB-2	SB2-11	04/19/2002	145	N	ASA#9 30.2	Bulk Density	1.53	g/cm3
SB-2	SB2-11	04/19/2002	145	N	ASA#9	Porosity	41.2	Percent
SB-2	SB2-11	04/19/2002	145	N	ASA#9	Specific Gravity	2.6	g/cm3
SB-2	SB2-11	04/19/2002	145	N	9060M	Carbon, Total Organic	0.07	Percent
SB-3	SB3-10	04/16/2002	154	N	ASA#9	Porosity	40.8	Percent
SB-3	SB3-9	04/16/2002	144.5	N	ASA#9 30.2	Bulk Density	1.53	g/cm3
SB-3	SB3-9	04/16/2002	144.5	N	ASA#9	Porosity	42	Percent
SB-3	SB3-9	04/16/2002	144.5	N	ASA#9	Specific Gravity	2.64	g/cm3
SB-3	SB3-5	04/15/2002	89.5	N	9060M	Carbon, Total Organic	0.1	Percent
SB-3	SB3-5	04/15/2002	89.5	N	160.3M	Total Solids	77.9	Percent
SB-3	SB3-4	04/15/2002	74.5	N	ASA#9 30.2	Bulk Density	1.55	g/cm3
SB-3	SB3-10	04/16/2002	154	N	ASA#9 30.2	Bulk Density	1.58	g/cm3
SB-3	SB3-4	04/15/2002	74.5	N	ASA#9	Porosity	41.9	Percent
SB-3	SB3-2	04/15/2002	52	N	9060M	Carbon, Total Organic	0.06	Percent
SB-3	SB3-4	04/15/2002	74.5	N	ASA#9	Specific Gravity	2.67	g/cm3
SB-3	SB3-4	04/15/2002	74.5	N	160.3M	Total Solids	82.3	Percent
SB-3	SB3-10	04/16/2002	154	N	ASA#9	Specific Gravity	2.67	g/cm3
SB-3	SB3-3	04/15/2002	73	N	9060M	Carbon, Total Organic	0.07	Percent
SB-3	SB3-3	04/15/2002	73	N	160.3M	Total Solids	81.5	Percent
SB-3	SB3-2	04/15/2002	52	N	160.3M	Total Solids	83.6	Percent
SB-3	SB3-1	04/15/2002	42.5	N	160.3M	Total Solids	75	Percent
SB-3	SB3-1	04/15/2002	42.5	N	160.3M	Total Solids	75.6	Percent
SB-3	SB3-1	04/15/2002	42.5	N	9060M	Carbon, Total Organic	0.14	Percent
SB-3	SB3-2	04/15/2002	52	N	ASA#9	Specific Gravity	2.68	g/cm3
SB-3	SB3-8	04/16/2002	142.5	N	ASA#9	Specific Gravity	2.68	g/cm3
SB-3	SB3-4	04/15/2002	74.5	N	9060M	Carbon, Total Organic	0.1	Percent
SB-3	SB3-8	04/16/2002	142.5	N	9060M	Carbon, Total Organic	0.06	Percent
SB-3	SB3-1	04/15/2002	42.5	N	ASA#9 30.2	Bulk Density	1.43	g/cm3
SB-3	SB3-6	04/16/2002	109	N	ASA#9	Porosity	38.7	Percent
SB-3	SB3-6	04/16/2002	109	N	ASA#9 30.2	Bulk Density	1.66	g/cm3
SB-3	SB3-5	04/15/2002	89.5	N	ASA#9	Specific Gravity	2.64	g/cm3
SB-3	SB3-5	04/15/2002	89.5	N	ASA#9	Porosity	44.3	Percent

Table 4-4
Physical Properties of Soil Samples

Location ID	Sample ID	Sample Date	Depth (ft bgs)	QA/QC Type[1]	Method	Analyte	Result	Units
SB-3	SB3-10	04/16/2002	154	N	9060M	Carbon, Total Organic	0.05	Percent
SB-3	SB3-10	04/16/2002	154	N	160.3M	Total Solids	76.8	Percent
SB-3	SB3-2	04/15/2002	52	N	ASA#9 30.2	Bulk Density	1.72	g/cm3
SB-3	SB3-9	04/16/2002	144.5	N	160.3M	Total Solids	77.8	Percent
SB-3	SB3-1	04/15/2002	42.5	N	ASA#9	Porosity	46.8	Percent
SB-3	SB3-8	04/16/2002	142.5	N	160.3M	Total Solids	83	Percent
SB-3	SB3-6	04/16/2002	109	N	ASA#9	Specific Gravity	2.71	g/cm3
SB-3	SB3-3	04/15/2002	73	N	ASA#9	Specific Gravity	2.68	g/cm3
SB-3	SB3-6	04/16/2002	109	N	160.3M	Total Solids	82.3	Percent
SB-3	SB3-9	04/16/2002	144.5	N	9060M	Carbon, Total Organic	0.48	Percent
SB-3	SB3-6	04/16/2002	109	N	9060M	Carbon, Total Organic	0.06	Percent
SB-3	SB3-7	04/16/2002	115.5	N	ASA#9 30.2	Bulk Density	1.9	g/cm3
SB-3	SB3-1	04/15/2002	42.5	N	ASA#9	Specific Gravity	2.69	g/cm3
SB-3	SB3-8	04/16/2002	142.5	N	ASA#9	Porosity	42.2	Percent
SB-3	SB3-8	04/16/2002	142.5	N	ASA#9 30.2	Bulk Density	1.55	g/cm3
SB-3	SB3-5	04/15/2002	89.5	N	ASA#9 30.2	Bulk Density	1.47	g/cm3
SB-3	SB3-2	04/15/2002	52	N	ASA#9	Porosity	35.8	Percent
SB-3	SB3-3	04/15/2002	73	N	ASA#9 30.2	Bulk Density	1.64	g/cm3
SB-3	SB3-3	04/15/2002	73	N	ASA#9	Porosity	38.8	Percent
SB-3	SB3-7	04/16/2002	115.5	N	ASA#9	Specific Gravity	2.69	g/cm3
SB-3	SB3-7	04/16/2002	115.5	N	ASA#9	Porosity	29.4	Percent
SB-4	SB4-3	04/10/2002	49.5	N	ASA#9 30.2	Bulk Density	1.58	g/cm3
SB-4	SB4-4	04/10/2002	62	N	ASA#9	Specific Gravity	2.67	g/cm3
SB-4	SB4-4	04/10/2002	62	N	ASA#9	Porosity	34.5	Percent
SB-4	SB4-4	04/10/2002	62	N	ASA#9 30.2	Bulk Density	1.75	g/cm3
SB-4	SB4-3	04/10/2002	49.5	N	ASA#9	Specific Gravity	2.71	g/cm3
SB-4	SB4-3	04/10/2002	49.5	N	ASA#9	Porosity	41.7	Percent
SB-4	SB4-5	04/10/2002	73.5	N	ASA#9 30.2	Bulk Density	1.49	g/cm3
SB-4	SB4-2	04/10/2002	43.5	N	ASA#9	Specific Gravity	2.71	g/cm3
SB-4	SB4-2	04/10/2002	43.5	N	ASA#9	Porosity	43.2	Percent
SB-4	SB4-2	04/10/2002	43.5	N	ASA#9 30.2	Bulk Density	1.54	g/cm3
SB-4	SB4-1	04/10/2002	36	N	ASA#9	Specific Gravity	2.69	g/cm3
SB-4	SB4-5	04/10/2002	73.5	N	ASA#9	Porosity	45.6	Percent

Table 4-4
Physical Properties of Soil Samples

Location ID	Sample ID	Sample Date	Depth (ft bgs)	QA/QC Type[1]	Method	Analyte	Result	Units
SB-4	SB4-1	04/10/2002	36	N	ASA#9 30.2	Bulk Density	1.66	g/cm3
SB-4	SB4-10	04/22/2002	126	N	160.3M	Total Solids	82	Percent
SB-4	SB4-1	04/10/2002	36	N	ASA#9	Porosity	38.3	Percent
SB-4	SB4-6	04/25/2002	84	N	ASTM D4129-8	Carbon, Total Organic	0.12	Percent
SB-4	SB4-8	04/22/2002	116.5	N	160.3M	Total Solids	90.1	Percent
SB-4	SB4-2	04/25/2002	43.5	N	ASTM D4129-8	Carbon, Total Organic	0.08	Percent
SB-4	SB4-2	04/22/2002	43.5	N	160.3M	Total Solids	82.3	Percent
SB-4	SB4-3	04/25/2002	49.5	N	ASTM D4129-8	Carbon, Total Organic	0.11	Percent
SB-4	SB4-3	04/22/2002	49.5	N	160.3M	Total Solids	82.6	Percent
SB-4	SB4-4	04/25/2002	62	N	ASTM D4129-8	Carbon, Total Organic	0.1	Percent
SB-4	SB4-4	04/22/2002	62	N	160.3M	Total Solids	75	Percent
SB-4	SB4-1	04/25/2002	36	N	ASTM D4129-8	Carbon, Total Organic	0.05	Percent
SB-4	SB4-5	04/22/2002	73.5	N	160.3M	Total Solids	79.8	Percent
SB-4	SB4-11	04/10/2002	136.5	N	ASA#9	Specific Gravity	2.66	g/cm3
SB-4	SB4-6	04/22/2002	84	N	160.3M	Total Solids	83.7	Percent
SB-4	SB4-7	04/25/2002	109.5	N	ASTM D4129-8	Carbon, Total Organic	0.06	Percent
SB-4	SB4-7	04/22/2002	109.5	N	160.3M	Total Solids	83.4	Percent
SB-4	SB4-8	04/25/2002	116.5	N	ASTM D4129-8	Carbon, Total Organic	0.09	Percent
SB-4	SB4-10	04/25/2002	126	N	ASTM D4129-8	Carbon, Total Organic	0.12	Percent
SB-4	SB4-11	04/25/2002	136.5	N	ASTM D4129-8	Carbon, Total Organic	0.05	Percent
SB-4	SB4-11	04/22/2002	136.5	N	160.3M	Total Solids	81	Percent
SB-4	SB4-5	04/25/2002	73.5	N	ASTM D4129-8	Carbon, Total Organic	0.09	Percent
SB-4	SB4-9	04/10/2002	120.5	N	ASA#9 30.2	Bulk Density	2	g/cm3
SB-4	SB4-6	04/10/2002	84	N	ASA#9 30.2	Bulk Density	1.64	g/cm3
SB-4	SB4-6	04/10/2002	84	N	ASA#9	Porosity	38.8	Percent
SB-4	SB4-6	04/10/2002	84	N	ASA#9	Specific Gravity	2.68	g/cm3
SB-4	SB4-7	04/10/2002	109.5	N	ASA#9 30.2	Bulk Density	1.76	g/cm3
SB-4	SB4-7	04/10/2002	109.5	N	ASA#9	Porosity	34.8	Percent
SB-4	SB4-7	04/10/2002	109.5	N	ASA#9	Specific Gravity	2.7	g/cm3
SB-4	SB4-8	04/10/2002	116.5	N	ASA#9 30.2	Bulk Density	2.03	g/cm3
SB-4	SB4-1	04/22/2002	36	N	160.3M	Total Solids	82.5	Percent
SB-4	SB4-8	04/10/2002	116.5	N	ASA#9	Specific Gravity	2.69	g/cm3
SB-4	SB4-5	04/10/2002	73.5	N	ASA#9	Specific Gravity	2.74	g/cm3

Table 4-4
Physical Properties of Soil Samples

Location ID	Sample ID	Sample Date	Depth (ft bgs)	QA/QC Type[1]	Method	Analyte	Result	Units
SB-4	SB4-9	04/10/2002	120.5	N	ASA#9	Porosity	25.7	Percent
SB-4	SB4-9	04/10/2002	120.5	N	ASA#9	Specific Gravity	2.69	g/cm3
SB-4	SB4-10	04/10/2002	126	N	ASA#9 30.2	Bulk Density	1.97	g/cm3
SB-4	SB4-10	04/10/2002	126	N	ASA#9	Porosity	27	Percent
SB-4	SB4-10	04/10/2002	126	N	ASA#9	Specific Gravity	2.7	g/cm3
SB-4	SB4-11	04/10/2002	136.5	N	ASA#9 30.2	Bulk Density	1.67	g/cm3
SB-4	SB4-11	04/10/2002	136.5	N	ASA#9	Porosity	37.2	Percent
SB-4	SB4-8	04/10/2002	116.5	N	ASA#9	Porosity	24.5	Percent

Note:
1. QA/QC Type:
N = sample

SECTION 5

FLUTe™ System DNAPL Testing

FLUTe™ system testing was performed at locations in or near the site of former disposal basins in an effort to determine the absence/presence of dense nonaqueous phase liquids (DNAPLs).

5.1 Summary of FLUTe™ DNAPL Testing

DNAPL testing was performed by URS in December 2001 adjacent to CPT-1, CPT-10, and CPT-11 as shown in Figure 3-1. DNAPL testing was conducted using the FLUTe™ System which uses parallel lines of dye on a fabric borehole liner which reacts with DNAPL, if present, to produce a visible smear. The procedure involves:

1. Temporary installation of a fabric liner impregnated with dye into a borehole.
2. Pressurizing the liner against the borehole wall for at least one hour.
3. Removal of the liner and inspection for staining or smearing of the dye pattern.

Liners were installed from ground surface to 100 ft bgs in boreholes at CPT-1, CPT-10, and CPT-11. A fourth test near CPT-8 was attempted in April 2002, but was unsuccessful. The 100 foot depth is extreme for the FLUTe™ System and accounted for the failure during the fourth test. The formation collapsed on the liner and prevented its retrieval.

5.2 Rationale for DNAPL Testing Locations

The results of CPT soil sample analyses (Section 3) were used to determine the locations of DNAPL tests. DNAPL tests were performed where concentrations of pesticides were greatest in CPT soil samples in an effort to determine the absence/ presence of DNAPLs as a source of groundwater contamination (URS, 2002).

5.3 DNAPL Testing Results

FLUTe™ System tests for DNAPL were negative at CPT-1, CPT-10 and CPT-11 (URS, 2002) and the fourth test was not successful.

SECTION 6

Additional Extraction and Monitoring Wells

Additional extraction and monitoring wells were installed, tested, and sampled in the area of the Frontier Fertilizer site and north of the site in Mace Ranch Park subdivision.

6.1 Rationale for Additional Extraction and Monitoring Wells

Four new extraction wells were installed at two locations where groundwater contamination in excess of MCLs is known to exist. Wells X-6A and X-6B were installed in the area of the former disposal basin to provide additional extraction in the vicinity of the source of pesticides. Wells X-6A and X-6B were installed north of the disposal basins in a location predicted to be the optimum to intercept and extract contaminated groundwater. Wells X-7B and X-7C were installed in the area of a DCP hot spot near wells OW-11A, B, and C to provide in-plume groundwater extraction and minimize further migration of the pesticide and CCl_4 plumes. Additional monitoring wells OW-15D, OW-19C, and OW-19D were installed between the plumes and City of Davis Well No. 29 to provide more complete A-1 zone monitoring. The locations of new extraction and monitoring wells are shown in Figure 6-1.

Lithologic and geophysical data collected during the installation of new extraction and monitoring wells provided additional information about the stratigraphy of the site (Section 6.2). Aquifer tests performed with the new extraction wells were used to estimate the hydraulic properties of contaminated strata and support the development of a numerical groundwater flow model (capture zone model) which will be used to optimize the extraction well field (Sections 6.3 and 7).

6.2 Extraction and Monitoring Well Locations and Installation

New extraction and monitoring wells were installed at the locations shown in Figure 6-1 during November and December 2001 by URS. X-6A was installed to a depth of 65 feet bgs and screened from 20 to 59 feet bgs in the S1 zone. X-6B was installed to a depth of 100 feet bgs and screened from 67 to 97 feet bgs in the S2 zone. X-7B was installed to a depth of 82 feet bgs and screened from 58 to 78 feet bgs in the S2 zone. X-7C was installed to a depth of 128 feet bgs and screened from 105 to 124 feet bgs in the A1 zone

The installation and construction of new extraction wells are described in detail by URS (2001b). Extraction wells consist of eight inch diameter steel casings with stainless steel screens (0.020 to 0.040-inch slots) in a sand filter pack. Screens were installed in low resistivity intervals (Section 6.3) at the elevation of contaminated strata in nearby wells. Extraction wells are equipped with a water level measurement (sounding) tube. Monitoring wells consist of two-inch diameter, schedule 40 PVC casings with a stainless steel screen (0.020-inch slots) in a sand filter pack.

Wells were developed using a combination of submersible pump surging, bailing, and swabbing until discharge from the well was clear and visibly free of suspended particles. Submersible pumps were decontaminated prior to and in between the development of wells. Drilling wastes and water discharged during well development were disposed as described in URS (2001b).

Specifications for new extraction and monitoring wells, including survey and construction details, are summarized in Table 6-1. Construction diagrams and lithologic logs for the new wells are presented in Appendix A.

6.3 Sampling and Testing

Borehole geophysical surveys (spontaneous potential, natural gamma, and a suite of electrical resistivity surveys) were performed in extraction wells X-6B and X-7C during installation. Geophysical data are on file with the original driller's logs. Step drawdown tests were performed in X-7B and X-7C during December 2001. Both step-drawdown and constant rate discharge tests were conducted in X-6A and X-6B during March and May 2002. Additional constant rate discharge tests were conducted in existing wells in May and June 2002 (Section 7).

The new extraction and monitoring wells were added to the Quarterly Monitoring Program upon installation. Analytical methods used, analytes detected and water level measured during the First Quarter 2002 groundwater monitoring are presented in Tables 6-2, 6-3, and 6-4.

QA/QC samples were collected and analyzed as described in CH2M HILL (2002). No significant QA/QC issues were identified. Analytical results presented in Table 6-3 have been validated by USEPA.

Laboratory sample delivery group documentation (SDGs) for groundwater analyses performed during the First Quarter 2002 are contained in the "Lab Narratives" folder of the CD included with this report.

TABLE 6-1
New Extraction and Monitoring Well Specifications

Well ID	Zone	Type of Well	Northing	Easting	Installation Date	Installer	Ground Elevation (ft amsl)	Top of Casing Elevation (ft amsl)	Depth of Screen (ft bgs)	Depth of Filter Pack (ft bgs)	Total Depth of Well (ft bgs)
X-6A	S-1	Extraction	323040.96	2085310.1	20-Nov-01	URS	30.89	34.65	20 to 60	18 to 70	60
X-6B	S-2	Extraction	323041.11	2085310.3	16-Nov-01	URS	30.89	31.90	67 to 97	62 to 100	100
X-7B	S-2	Extraction	323676.59	2085243.1	7-Nov-01	URS	31.63	31.40	58 to 78	52 to 83	82
X-7C	A-1	Extraction	323674.14	2085235.6	2-Nov-01	URS	31.64	31.42	105 to 124	84 to 130	128
OW-15D	A-1	Monitoring	324328.91	2084536.1	10-Dec-01	URS	33.73	33.69	120 to 130	110 to 133.5	130
OW-19C	A-1	Monitoring	324021.19	2084366.5	5-Dec-01	URS	36.47	36.43	95 to 105	85.5 to 108	105.5
OW-19D	A-1	Monitoring	324026.77	2084370.8	6-Dec-01	URS	36.34	36.03	120 to 130	110.5 to 134	130

amsl above mean sea level
bgs below ground surface
ft feet
NA Not available
URS URS Corporation

TABLE 6-2
Extraction and Monitoring Well Groundwater Sample Collection and Analyses

Location ID	Zone	Well Type	Sample Date	Analysis Methods
OW-15D	A-1	Monitoring Well	03/20/2002	524.2
				504.1
OW-19C	A-1	Monitoring Well	03/26/2002	524.2
				504.1
OW-19D	A-1	Monitoring Well	03/26/2002	524.2
				504.1
X-6A	S-1	Extraction Well	04/09/2002	504.1
X-6B	S-2	Extraction Well	04/10/2002	504.1
X-7B	S-2	Extraction Well	04/10/2002	524.2
				504.1
X-7C	A-1	Extraction Well	04/02/2002	524.2
				504.1

Table 6-3
Chemicals Detected in Extraction and Monitoring Well Groundwater Samples

Location	Zone	Sample ID	Sample Date	QA/QC Type[1]	Analyte	Result[2]	Units	Flag[3]	Method
X-6A	Aquifer Zone S-1	40273	04/09/2002	N	1,2,3-Trichloropropane	14	ug/L		524.2
X-6A	Aquifer Zone S-1	40273	04/09/2002	N	1,2-Dibromoethane (EDB)	**4**	ug/L		524.2
X-6A	Aquifer Zone S-1	40273	04/09/2002	N	1,2-Dichloroethane	0.8	ug/L		524.2
X-6A	Aquifer Zone S-1	40273	04/09/2002	N	1,2-Dichloropropane (DCP)	**370**	ug/L		524.2
X-6A	Aquifer Zone S-1	40273	04/09/2002	N	1,3-Dichloropropane	0.9	ug/L	J	524.2
X-6A	Aquifer Zone S-1	40273	04/09/2002	N	Dichlorodifluoromethane	1	ug/L	UJ	524.2
X-6B	Aquifer Zone S-2	40275	04/10/2002	N	1,1,2-Trichloroethane	2	ug/L		524.2
X-6B	Aquifer Zone S-2	40275	04/10/2002	N	Toluene	1	ug/L		524.2
X-6B	Aquifer Zone S-2	40275	04/10/2002	N	1,2-Dichloropropane (DCP)	**5700**	ug/L		524.2
X-6B	Aquifer Zone S-2	40275	04/10/2002	N	1,1-Dichloroethane	4	ug/L		524.2
X-6B	Aquifer Zone S-2	40275	04/10/2002	N	1,1-Dichloropropene	1	ug/L		524.2
X-6B	Aquifer Zone S-2	40275	04/10/2002	N	1,2,3-Trichloropropane	360	ug/L		524.2
X-6B	Aquifer Zone S-2	40275	04/10/2002	N	chloropropane (DBCP)	**21**	ug/L		524.2
X-6B	Aquifer Zone S-2	40275	04/10/2002	N	1,2-Dibromoethane (EDB)	**520**	ug/L		524.2
X-6B	Aquifer Zone S-2	40275	04/10/2002	N	1,2-Dichloroethane	24	ug/L		524.2
X-6B	Aquifer Zone S-2	40275	04/10/2002	N	1,3-Dichloropropane	30	ug/L		524.2
X-6B	Aquifer Zone S-2	40275	04/10/2002	N	Benzene	30	ug/L		524.2
X-6B	Aquifer Zone S-2	40275	04/10/2002	N	Bromomethane	1	ug/L		524.2
X-6B	Aquifer Zone S-2	40275	04/10/2002	N	Chlorobenzene	9	ug/L		524.2
X-6B	Aquifer Zone S-2	40275	04/10/2002	N	Chloroform	2	ug/L		524.2
X-6B	Aquifer Zone S-2	40275	04/10/2002	N	Chloromethane	2	ug/L		524.2
X-6B	Aquifer Zone S-2	40275	04/10/2002	N	Dichloromethane	0.6	ug/L	J	524.2
X-6B	Aquifer Zone S-2	40275	04/10/2002	N	Isopropylbenzene	0.7	ug/L	J	524.2
X-6B	Aquifer Zone S-2	40275	04/10/2002	N	O-Xylene	0.5	ug/L	J	524.2
X-6B	Aquifer Zone S-2	40275	04/10/2002	N	Dichlorodifluoromethane	1	ug/L	UJ	524.2
X-7B	Aquifer Zone S-2	40272	04/10/2002	N	1,2,3-Trichloropropane	60	ug/L		524.2
X-7B	Aquifer Zone S-2	40272	04/10/2002	N	1,2-Dichloroethane	4.4	ug/L		524.2
X-7B	Aquifer Zone S-2	40272	04/10/2002	N	1,2-Dichloropropane (DCP)	**2200**	ug/L		524.2
X-7B	Aquifer Zone S-2	40272	04/10/2002	N	1,1,2-Trichloroethane	0.5	ug/L	J	524.2
X-7B	Aquifer Zone S-2	40272	04/10/2002	N	1,3-Dichloropropane	4	ug/L		524.2
X-7B	Aquifer Zone S-2	40272	04/10/2002	N	1,2-Dibromoethane (EDB)	**160**	ug/L		524.2
X-7B	Aquifer Zone S-2	40272	04/10/2002	N	chloropropane (DBCP)	**5**	ug/L		524.2
X-7B	Aquifer Zone S-2	40272	04/10/2002	N	Chloroform	0.6	ug/L	J	524.2
X-7B	Aquifer Zone S-2	40272	04/10/2002	N	Chloromethane	3	ug/L		524.2
X-7B	Aquifer Zone S-2	40272	04/10/2002	N	Dichlorodifluoromethane	1	ug/L	UJ	524.2
X-7B	Aquifer Zone S-2	40272	04/10/2002	N	Bromomethane	2	ug/L		524.2
X-7B	Aquifer Zone S-2	40272	04/10/2002	N	1,1-Dichloroethane	0.8	ug/L	J	524.2
X-7C	Aquifer Zone A-1	40235	04/02/2002	N	Bromoform	1	ug/L	UJ	524.2
X-7C	Aquifer Zone A-1	40235	04/02/2002	N	1,2-Dibromoethane (EDB)	0.01	ug/L	J	504.1
X-7C	Aquifer Zone A-1	40235	04/02/2002	N	1,2-Dichloropropane (DCP)	0.8	ug/L	J	524.2

Notes:

1. QA/QC Type:
N = sample

2. Bolded values indicate exceedance of MCL, see Table 2-1.

3. Lab Flag Description:
J = The amount detected is less than the quantitation limit and is only an estimated value.
UJ = The analyte was not detected above the reported quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

TABLE 6-4 QUARTERLY GROUNDWATER ELEVATION MONITORING IN NEW EXTRACTION AND MONITORING WELLS

Location	Date	Groundwater Elevation (ft amsl)
OW-15D	03/12/02	12.50
OW-19C	03/12/02	12.57
OW-19D	03/12/02	12.51
X-6A	03/12/02	8.23
X-6B	03/12/02	6.21
X-7B	NA	NA
X-7C		

Note: Water levels for wells X-7B and X-7C were not measured during the first quarter 2002 event because the wells were not accessible.

amsl = above mean sea level

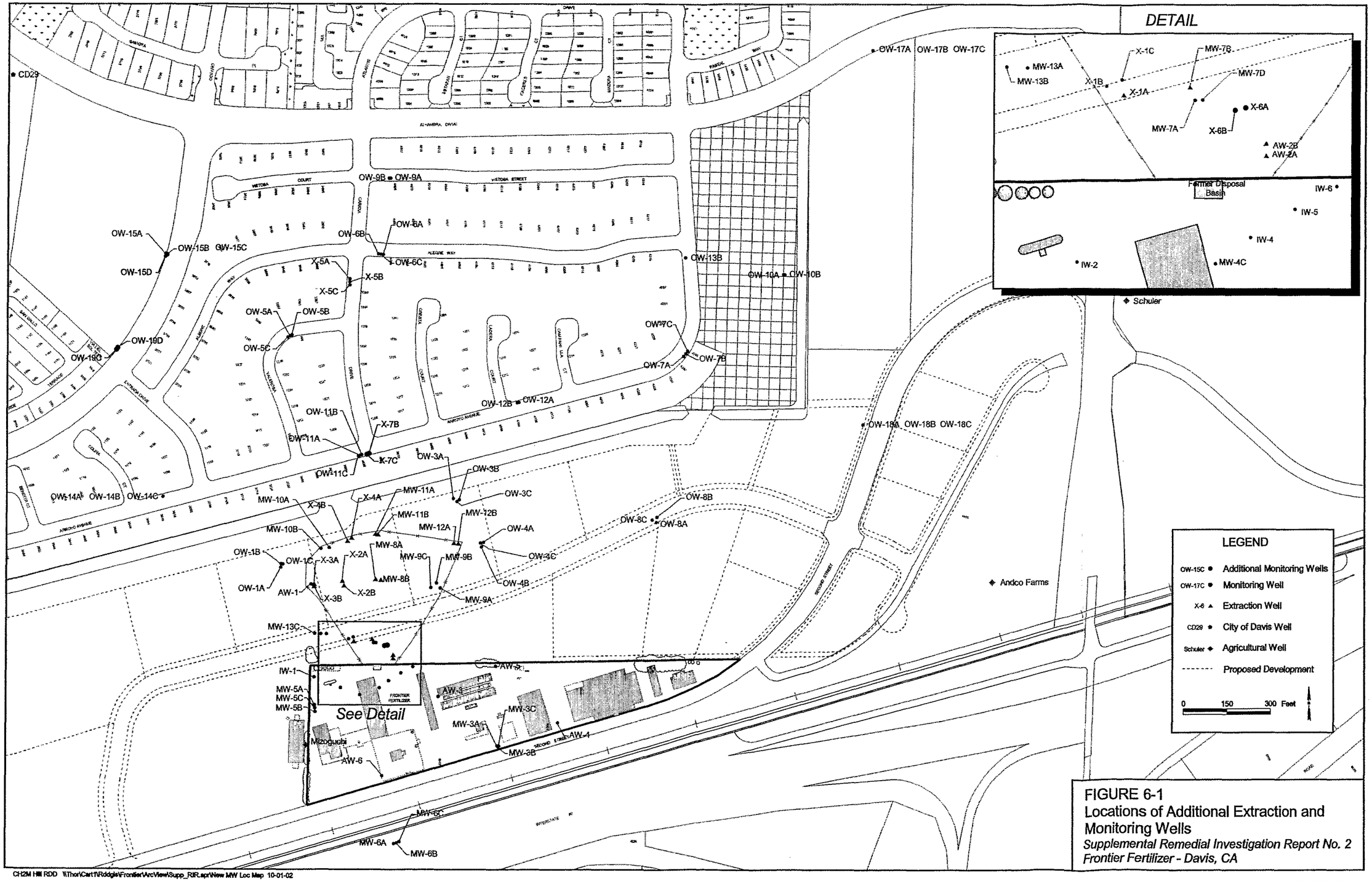

FIGURE 6-1
Locations of Additional Extraction and Monitoring Wells
Supplemental Remedial Investigation Report No. 2
Frontier Fertilizer - Davis, CA

SECTION 7

Aquifer Testing

A combination of step-drawdown and constant rate discharge tests were performed in new extraction wells X-6A, X-6B, X-7B, X-7C and a number of existing wells to estimate the hydraulic properties of contaminated strata and support the development of a numerical groundwater flow model (capture zone model) which will be used to optimize the extraction well field.

7.1 Summary of Aquifer Testing

Step-drawdown tests were performed in X-7 wells and X-6 wells during December 2001 and March 2002, respectively. Constant rate discharge tests were conducted with X-6A, X-6B and additional (existing) wells in May and June 2002. Step-drawdown and constant rate discharge tests conducted in December 2001 and March, May, and June 2002 will be described in detail in the Site Conceptual Model report.

Groundwater was sampled from X-7B in May 2002 during an interim groundwater monitoring event. Approximately 600 gallons of groundwater water was purged from the well prior to collecting samples. The volume of water in the casing and filter pack was approximately 300 gallons during sampling events. Approximately two volumes were purged prior to collecting samples to derive an understanding of the source of the water, i.e. would detected concentrations change during the interim monitoring period. Groundwater samples collected from X-7B during the interim monitoring effort were analyzed for EDB, DBCP, and other VOCs and the results are summarized in Table 7-1.

TABLE 7-1
Chemicals Detected in X-7B During Interim Monitoring Events

Location	Sample ID	Date	Method	Analyte	Result	Units	Flag
X-7B	X7B5902	5/9/02	524.2	1,2-Dibromoethane (EDB)	**250**	µg/L	
X-7B	X7B5902	5/9/02	524.2	1,2-Dichloroethane	3.9	µg/L	
X-7B	X7B5902	5/9/02	524.2	1,3-Dichloropropane	**5**	µg/L	
X-7B	X7B5902	5/9/02	524.2	Chloroform	0.7	µg/L	J
X-7B	X7B5902	5/9/02	524.2	Vinyl chloride	0.5	µg/L	UJ
X-7B	X7B5902	5/9/02	524.2	1,1-Dichloroethane	1	µg/L	
X-7B	X7B5902	5/9/02	524.2	Dichlorodifluoromethane	1	µg/L	UJ
X-7B	X7B5902	5/9/02	524.2	1,2-Dichloropropane	**2700**	µg/L	
X-7B	X7B5902	5/9/02	524.2	1,1,2-Trichloroethane	**0.6**	µg/L	J
X-7B	X7B5902	5/9/02	524.2	1,2-Dibromo-3-chloropropane (DBCP)	**8**	µg/L	

TABLE 7-1
Chemicals Detected in X-7B During Interim Monitoring Events

Location	Sample ID	Date	Method	Analyte	Result	Units	Flag
X-7B	X7B5902	5/9/02	524.2	1,2,3-Trichloropropane	56	µg/L	
X-7B	X7B52002	5/20/02	524.2	1,2-Dibromoethane (EDB)	**240**	µg/L	
X-7B	X7B52002	5/20/02	524.2	1,2-Dichloroethane	3.9	µg/L	
X-7B	X7B52002	5/20/02	524.2	1,3-Dichloropropane	**5**	µg/L	
X-7B	X7B52002	5/20/02	524.2	Chloroform	0.6	µg/L	J
X-7B	X7B52002	5/20/02	524.2	1,1-Dichloroethane	0.8	µg/L	J
X-7B	X7B52002	5/20/02	524.2	Dichlorodifluoromethane	1	µg/L	UJ
X-7B	X7B52002	5/20/02	524.2	1,2-Dichloropropane	**2900**	µg/L	
X-7B	X7B52002	5/20/02	524.2	1,1,2-Trichloroethane	**0.6**	µg/L	J
X-7B	X7B52002	5/20/02	524.2	1,2-Dibromo-3-chloropropane (DBCP)	**8**	µg/L	
X-7B	X7B52002	5/20/02	524.2	1,2,3-Trichloropropane	70	µg/L	
X-7B	X7B52902	5/29/02	524.2	1,2-Dibromoethane (EDB)	**240**	µg/L	
X-7B	X7B52902	5/29/02	524.2	1,2-Dichloroethane	3.9	µg/L	
X-7B	X7B52902	5/29/02	524.2	1,3-Dichloropropane	**6**	µg/L	
X-7B	X7B52902	5/29/02	524.2	Chloroform	0.6	µg/L	J
X-7B	X7B52902	5/29/02	524.2	Chloromethane	1	µg/L	UJ
X-7B	X7B52902	5/29/02	524.2	1,1-Dichloroethane	0.9	µg/L	J
X-7B	X7B52902	5/29/02	524.2	Dichlorodifluoromethane	1	µg/L	UJ
X-7B	X7B52902	5/29/02	524.2	1,2-Dichloropropane	**2800**	µg/L	
X-7B	X7B52902	5/29/02	524.2	1,1,2-Trichloroethane	**0.7**	µg/L	J
X-7B	X7B52902	5/29/02	524.2	1,2-Dibromo-3-chloropropane (DBCP)	**9**	µg/L	
X-7B	X7B52902	5/29/02	524.2	1,2,3-Trichloropropane	80	µg/L	

Note: Bolded result indicates exceedance of MCL, see Table 2-1.

Lab Flag Description: J = The amount detected is less than the quantitation limit and is only an estimated value.

7.2 Aquifer Test Results

Data collected during step-drawdown and constant rate discharge tests are presented in the "aquifer tests" folder of the CD included with this report. Analytical and numerical interpretations of aquifer tests will be presented in the site conceptual model report.

SECTION 8

Soil Sampling in the Area of Former Aboveground Storage Tanks

Soil sampling was performed to characterize the presence/extent of contamination in the area of former aboveground storage tanks.

8.1 Summary of Sampling in the Area of Former Aboveground Storage Tanks

In December 2002, URS performed soil sampling in the area of former aboveground storage tanks. Soil samples were collected at the center of the former tank locations (Figure 3-1). One additional sample was collected southeast of T-4 and two additional samples were collected east and southeast of T-6, indicated with an A or B, respectively, in Tables 8-1 and 8-2. Soil sampling began at 3 ft bgs and continued at 5-foot intervals down to 28 ft bgs.

Soil samples were analyzed by the EPA Region 9 Laboratory for TPH-gasoline, TPH-motor Oil, and TPH-diesel and by the EPA Contract Laboratory Program (CLP) for VOCs, pesticides/PCBs, and metals using the method shown in Table 8-1. Sample IDs shown in Tables 8-1 and 8-2 beginning with MY or Y were analyzed by CLP.

8.2 Rationale for Sampling in the Area of Former Aboveground Storage Tanks

Seven above-ground storage tanks were removed from the site in July 2000. The approximate size and contents of the tanks were:

- Tank T-1 28,000 gallons, fertilizer sludge
- Tank T-2 28,000 gallons, fertilizer sludge
- Tank T-3 27,000 gallons, fertilizer sludge
- Tank T-4 13,000 gallons, liquid fertilizer
- Tank T-5 13,000 gallons, liquid fertilizer
- Tank T-6 17,500 gallons, diesel
- Tank T-7 600 gallons, diesel.

Tank contents were sampled and analyzed prior to their removal, confirming the above. In addition, Tank T-2 contained 33 ppm toxaphene (a pesticide) and Tank T-4 contained the following fuel-related constituents:

- 4,700 ppb benzene
- 2,600 ppb ethylbenzene
- 4,200 ppb naphthalene
- 2,900 ppb 1,2,3-trimethlybenzene

- 3,200 ppb 1,2,4-trimethylbenzene
- 7,600 ppb 1,3,5-trimethlybenzene
- 9,900 ppb total xylenes

There were signs of previous leakage in the area of Tank T-4 at the time of removal. Diesel stained soil was noted in the areas of Tanks T-6 and T-7. Accordingly, soil sampling was performed in the area of the former above-ground storage tanks to determine whether VOCs, pesticides, metals, TPH-gasoline, or TPH-diesel are present in the soil and whether contamination, if present, extends to the water table.

8.3 Soil Sampling Results

The compounds detected in soil samples collected in the area of former above-ground storage tanks are presented in Table 8-2. The results exceeding regulatory thresholds for TPH and Industrial Soil PRGs are shown in bold.

8.3.1 Metal Analytical Results

Metals were detected down to 28 ft bgs in soil samples collected in the areas of the six former above-ground storage tanks. Arsenic was detected in all of the tank soil samples analyzed for metals. This relatively uniform distribution of arsenic suggests that arsenic is naturally occurring in the soil. Arsenic was primarily detected at concentrations ranging from 2.3 mg/kg to 11.6 mg/kg. The highest arsenic concentration (37.7 mg/kg) was detected in T-4A at a sample depth of 3 ft bgs. The arsenic detected in the soil samples was below the non-cancer residential PRG of 22 mg/kg in all the samples except the one sample at T-4A.

8.3.2 VOC, Pesticide, and TPH Analytical Results

The industrial soil PRGs were not exceeded for the VOCs or pesticides detected in the tank soil samples (see Table 8-2). VOCs were detected to the maximum depth explored (28 ft bgs) in the area of former tanks 1,2,3, and 6. A variety of pesticides and PCBs were detected at two depths, 8 and 13 ft bgs, in samples collected in the area of former tanks 3, 6, and in the area southeast of former tank 6. Aldrin, dieldrin, and 4,4-DDT were detected (concentrations < 15 µg/kg) down to 28 ft bgs in soil samples collected east and southeast of former tank 6. The area of former tanks 5 and 6 had concentrations of TPH-diesel, gasoline, and motor oil that exceeded the TriRegional Board Staff Recommendations For Preliminary Investigation and Evaluation of Underground Tank Sites screening level 100 ppm TPH concentrations. The TPH concentrations were up to three orders of magnitude greater than the concentrations measured in the other former tank soil samples to a depth of 28 ft bgs.

TABLE 8-1
Soil Sampling and Analyses in the Area of the Former Above-Ground Storage Tanks
Frontier Fertilizer Superfund Site

Location ID	Sample ID	Sample Depth (ft)	QA/QC Type	Sample Date	Method
T-1-1					
	39280	1	N	12/05/2001	8015B
T-1-3					
	39280	3	N	12/05/2001	8015B
	39281	3	N	12/05/2001	8015B
	MY08Q9	3	N	12/05/2001	Metals
	MY08R0	3	FD	12/05/2001	Metals
	Y0C00	3	N	12/05/2001	Pest/PCBs
	Y0C00	3	N	12/05/2001	VOCs
	Y0C01	3	FD	12/05/2001	Pest/PCBs
	Y0C01	3	FD	12/05/2001	VOCs
T-1-8					
	39282	8	N	12/05/2001	8015B
	MY08R1	8	N	12/05/2001	Metals
	Y0C02	8	N	12/05/2001	Pest/PCBs
	Y0C02	8	N	12/05/2001	VOCs
T-1-13					
	39283	13	N	12/05/2001	8015B
	MY08R2	13	N	12/05/2001	Metals
	Y0C03	13	N	12/05/2001	Pest/PCBs
	Y0C03	13	N	12/05/2001	VOCs
T-1-18					
	39284	18	N	12/05/2001	8015B
	MY08R3	18	N	12/05/2001	Metals
	Y0C04	18	N	12/05/2001	Pest/PCBs
	Y0C04	18	N	12/05/2001	VOCs
T-1-23					
	39285	23	N	12/05/2001	8015B
	MY08R4	23	N	12/05/2001	Metals
	Y0C05	23	N	12/05/2001	Pest/PCBs
	Y0C05	23	N	12/05/2001	VOCs
T-1-28					
	39286	28	N	12/05/2001	8015B
	MY08R5	28	N	12/05/2001	Metals
	Y0C06	28	N	12/05/2001	Pest/PCBs
	Y0C06	28	N	12/05/2001	VOCs
T-2-3					
	39287	3	N	12/05/2001	8015B
	MY08R6	3	N	12/05/2001	Metals
	Y0C07	3	N	12/05/2001	Pest/PCBs
	Y0C07	3	N	12/05/2001	VOCs
T-2-8					
	39288	8	N	12/05/2001	8015B
	MY08R7	8	N	12/05/2001	Metals
	Y0C08	8	N	12/05/2001	Pest/PCBs
	Y0C08	8	N	12/05/2001	VOCs
T-2-13					
	39289	13	N	12/05/2001	8015B
	MY08R8	13	N	12/05/2001	Metals
	Y0C09	13	N	12/05/2001	Pest/PCBs

Notes: QA/QC Type: N = sample, FD = field duplicate
Sorted by LocationID, Sample Depth, Sample ID, Sample Date

TABLE 8-1
Soil Sampling and Analyses in the Area of the Former Above-Ground Storage Tanks
Frontier Fertilizer Superfund Site

Location ID	Sample ID	Sample Depth (ft)	QA/QC Type	Sample Date	Method
T-2-13					
	Y0C09	13	N	12/05/2001	VOCs
T-2-18					
	39290	18	N	12/05/2001	8015B
	39291	18	N	12/05/2001	8015B
	MY08R9	18	N	12/05/2001	Metals
	MY08S0	18	FD	12/05/2001	Metals
	Y0C10	18	N	12/05/2001	Pest/PCBs
	Y0C10	18	N	12/05/2001	VOCs
	Y0C11	18	FD	12/05/2001	Pest/PCBs
	Y0C11	18	FD	12/05/2001	VOCs
T-2-23					
	39292	23	N	12/05/2001	8015B
	MY08S1	23	N	12/05/2001	Metals
	Y0C12	23	N	12/05/2001	Pest/PCBs
	Y0C12	23	N	12/05/2001	VOCs
T-2-28					
	39293	28	N	12/05/2001	8015B
	Y0C13	28	N	12/05/2001	Pest/PCBs
	Y0C13	28	N	12/05/2001	VOCs
T-3-3					
	39294	3	N	12/05/2001	8015B
	MY08S3	3	N	12/05/2001	Metals
	Y0C14	3	N	12/05/2001	Pest/PCBs
	Y0C14	3	N	12/05/2001	VOCs
T-3-8					
	39295	8	N	12/05/2001	8015B
	MY08S4	8	N	12/05/2001	Metals
	Y0C15	8	N	12/05/2001	Pest/PCBs
	Y0C15	8	N	12/05/2001	VOCs
T-3-13					
	39296	13	N	12/05/2001	8015B
	MY08S5	13	N	12/05/2001	Metals
	Y0C16	13	N	12/05/2001	Pest/PCBs
	Y0C16	13	N	12/05/2001	VOCs
T-3-18					
	39297	18	N	12/05/2001	8015B
	MY08S6	18	N	12/05/2001	Metals
	Y0C17	18	N	12/05/2001	Pest/PCBs
	Y0C17	18	N	12/05/2001	VOCs
T-3-23					
	39298	23	N	12/05/2001	8015B
	MY08S7	23	N	12/05/2001	Metals
	Y0C18	23	N	12/05/2001	Pest/PCBs
	Y0C18	23	N	12/05/2001	VOCs
T-3-28					
	39299	28	N	12/05/2001	8015B
	MY08S8	28	N	12/05/2001	Metals
	Y0C19	28	N	12/05/2001	Pest/PCBs
	Y0C19	28	N	12/05/2001	VOCs

Notes: QA/QC Type: N = sample, FD = field duplicate
Sorted by LocationID, Sample Depth, Sample ID, Sample Date

TABLE 8-1
Soil Sampling and Analyses in the Area of the Former Above-Ground Storage Tanks
Frontier Fertilizer Superfund Site

Location ID	Sample ID	Sample Depth (ft)	QA/QC Type	Sample Date	Method
T-4-3					
	39300	3	N	12/06/2001	8015B
	MY08S9	3	N	12/06/2001	Metals
T-4-8					
	39301	8	N	12/06/2001	8015B
	MY08T0	8	N	12/06/2001	Metals
T-4-13					
	39302	13	N	12/06/2001	8015B
	39303	13	FD	12/06/2001	8015B
	MY08T1	13	N	12/06/2001	Metals
	MY08T2	13	FD	12/06/2001	Metals
T-4-18					
	39304	18	N	12/06/2001	8015B
	MY08T3	18	N	12/06/2001	Metals
T-4-23					
	39305	23	N	12/06/2001	8015B
	MY08T4	23	N	12/06/2001	Metals
T-4-28					
	39306	28	N	12/06/2001	8015B
	MY08T5	28	N	12/06/2001	Metals
T-4A-3					
	39307	3	N	12/06/2001	8015B
	MY08T6	3	N	12/06/2001	Metals
T-4A-8					
	39308	8	N	12/06/2001	8015B
	MY08T7	8	N	12/06/2001	Metals
T-4A-18					
	39310	18	N	12/06/2001	8015B
	MY08T9	18	N	12/06/2001	Metals
T-4A-23					
	39311	23	N	12/06/2001	8015B
	MY08W0	23	N	12/06/2001	Metals
T-4A-28					
	39312	28	N	12/06/2001	8015B
	MY08W1	28	N	12/06/2001	Metals
T-5-3					
	39313	3	N	12/06/2001	8015B
	MY08W2	3	N	12/06/2001	Metals
T-5-8					
	39314	8	N	12/06/2001	8015B
	39315	8	N	12/06/2001	8015B
	MY08W3	8	N	12/06/2001	Metals
	MY08W4	8	N	12/06/2001	Metals
T-5-13					
	39316	13	N	12/06/2001	8015B
	MY08W5	13	N	12/06/2001	Metals
T-5-18					
	39317	18	N	12/06/2001	8015B
	MY08W6	18	N	12/06/2001	Metals

Notes: QA/QC Type: N = sample, FD = field duplicate
Sorted by LocationID, Sample Depth, Sample ID, Sample Date

TABLE 8-1
Soil Sampling and Analyses in the Area of the Former Above-Ground Storage Tanks
Frontier Fertilizer Superfund Site

Location ID	Sample ID	Sample Depth (ft)	QA/QC Type	Sample Date	Method
T-5-23					
	39318	23	N	12/06/2001	8015B
	MY08W7	23	N	12/06/2001	Metals
T-5-28					
	39319	28	N	12/06/2001	8015B
	MY08W8	28	N	12/06/2001	Metals
T-6-3					
	39320	3	N	12/07/2001	8015B
	MY08W9	3	N	12/07/2001	Metals
	Y0C40	3	N	12/07/2001	Pest/PCBs
	Y0C40	3	N	12/07/2001	VOCs
T-6-8					
	39321	8	N	12/07/2001	8015B
	MY08X0	8	N	12/07/2001	Metals
	Y0C41	8	N	12/07/2001	Pest/PCBs
T-6-13					
	39322	13	N	12/07/2001	8015B
	MY08X1	13	N	12/07/2001	Metals
	Y0C42	13	N	12/07/2001	Pest/PCBs
	Y0C42	13	N	12/07/2001	VOCs
T-6-18					
	39323	18	N	12/07/2001	8015B
	MY08X2	18	N	12/07/2001	Metals
	Y0C43	18	N	12/07/2001	Pest/PCBs
	Y0C43	18	N	12/07/2001	VOCs
T-6-23					
	39324	23	N	12/07/2001	8015B
	MY08X3	23	N	12/07/2001	Metals
	Y0C44	23	N	12/07/2001	Pest/PCBs
	Y0C44	23	N	12/07/2001	VOCs
T-6-28					
	39325	28	N	12/07/2001	8015B
	MY08X4	28	N	12/07/2001	Metals
	Y0C45	28	N	12/07/2001	Pest/PCBs
	Y0C45	28	N	12/07/2001	VOCs
T-6A-3					
	39326	3	N	12/07/2001	8015B
	39327	3	FD	12/07/2001	8015B
	MY08X5	3	N	12/07/2001	Metals
	MY08X6	3	FD	12/07/2001	Metals
	Y0C46	3	N	12/07/2001	Pest/PCBs
	Y0C46	3	N	12/07/2001	VOCs
	Y0C47	3	FD	12/07/2001	Pest/PCBs
	Y0C47	3	FD	12/07/2001	VOCs
T-6A-8					
	39328	8	N	12/07/2001	8015B
	MY08X7	8	N	12/07/2001	Metals
	Y0C48	8	N	12/07/2001	Pest/PCBs
	Y0C48	8	N	12/07/2001	VOCs

Notes: QA/QC Type: N = sample, FD = field duplicate
Sorted by LocationID, Sample Depth, Sample ID, Sample Date

TABLE 8-1
Soil Sampling and Analyses in the Area of the Former Above-Ground Storage Tanks
Frontier Fertilizer Superfund Site

Location ID	Sample ID	Sample Depth (ft)	QA/QC Type	Sample Date	Method
T-6A-13					
	39329	13	N	12/07/2001	8015B
	MY08X8	13	N	12/07/2001	Metals
	Y0C49	13	N	12/07/2001	Pest/PCBs
	Y0C49	13	N	12/07/2001	VOCs
T-6A-18					
	39330	18	N	12/07/2001	8015B
	MY08X9	18	N	12/07/2001	Metals
	Y0C50	18	N	12/07/2001	Pest/PCBs
	Y0C50	18	N	12/07/2001	VOCs
T-6A-23					
	39331	23	N	12/07/2001	8015B
	MY08Y0	23	N	12/07/2001	Metals
	Y0C51	23	N	12/07/2001	Pest/PCBs
	Y0C51	23	N	12/07/2001	VOCs
T-6A-28					
	39332	28	N	12/07/2001	8015B
	MY08Y1	28	N	12/07/2001	Metals
	Y0C52	28	N	12/07/2001	Pest/PCBs
	Y0C52	28	N	12/07/2001	VOCs
T-6B-3					
	39333	3	N	12/07/2001	8015B
	MY08Y2	3	N	12/07/2001	Metals
	Y0C53	3	N	12/07/2001	Pest/PCBs
	Y0C53	3	N	12/07/2001	VOCs
T-6B-8					
	39334	8	N	12/07/2001	8015B
	MY08Y3	8	N	12/07/2001	Metals
	Y0C54	8	N	12/07/2001	Pest/PCBs
	Y0C54	8	N	12/07/2001	VOCs
T-6B-13					
	39335	13	N	12/07/2001	8015B
	MY08Y4	13	N	12/07/2001	Metals
	MY08Y6	13	N	12/07/2001	Metals
	Y0C55	13	N	12/07/2001	Pest/PCBs
	Y0C55	13	N	12/07/2001	VOCs
T-6B-18					
	39336	18	N	12/07/2001	8015B
	MY08Y5	18	N	12/07/2001	Metals
	Y0C56	18	N	12/07/2001	Pest/PCBs
	Y0C56	18	N	12/07/2001	VOCs
T-6B-23					
	39337	23	N	12/07/2001	8015B
	39338	23	FD	12/07/2001	8015B
	MY08Y7	23	N	12/07/2001	Metals
	Y0C57	23	N	12/07/2001	Pest/PCBs
	Y0C57	23	N	12/07/2001	VOCs
	Y0C58	23	FD	12/07/2001	Pest/PCBs
	Y0C58	23	FD	12/07/2001	VOCs

Notes: QA/QC Type: N = sample, FD = field duplicate
Sorted by LocationID, Sample Depth, Sample ID, Sample Date
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TABLE 8-1
Soil Sampling and Analyses in the Area of the Former Above-Ground Storage Tanks
Frontier Fertilizer Superfund Site

Location ID	Sample ID	Sample Depth (ft)	QA/QC Type	Sample Date	Method
T-6B-28					
	39339	28	N	12/07/2001	8015B
	MY08Y8	28	N	12/07/2001	Metals
	Y0C59	28	N	12/07/2001	Pest/PCBs
	Y0C59	28	N	12/07/2001	VOCs

Notes: QA/QC Type: N = sample, FD = field duplicate
Sorted by LocationID, Sample Depth, Sample ID, Sample Date
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Table 8-2
Chemicals Detected in the Area of the Former Above-Ground Storage Tanks

Location	Sample ID	Sample Date	Depth (ft)	Method	QA/QC Type[1]	Analyte	Result[2]	Units	Flag[3]
T-1-3	39280	12/05/2001	3	8015B	N	TPH as Diesel	6	mg/Kg	UJ
T-1-3	39281	12/05/2001	3	8015B	N	TPH as Motor Oil	40	mg/Kg	J
T-1-3	39281	12/05/2001	3	8015B	N	TPH as Diesel	4	mg/Kg	J
T-1-3	MY08R0	12/05/2001	3	Metals	FD	ALUMINUM	19600	mg/Kg	
T-1-3	MY08Q9	12/05/2001	3	Metals	N	ALUMINUM	19400	mg/Kg	
T-1-3	MY08Q9	12/05/2001	3	Metals	N	ANTIMONY	0.97	mg/Kg	UJ
T-1-3	MY08R0	12/05/2001	3	Metals	FD	ANTIMONY	0.94	mg/Kg	UJ
T-1-3	MY08Q9	12/05/2001	3	Metals	N	ARSENIC	9.3	mg/Kg	
T-1-3	MY08R0	12/05/2001	3	Metals	FD	ARSENIC	7.6	mg/Kg	
T-1-3	MY08R0	12/05/2001	3	Metals	FD	BARIUM	263	mg/Kg	
T-1-3	MY08Q9	12/05/2001	3	Metals	N	BARIUM	225	mg/Kg	
T-1-3	MY08Q9	12/05/2001	3	Metals	N	BERYLLIUM	0.5	mg/Kg	J
T-1-3	MY08R0	12/05/2001	3	Metals	FD	BERYLLIUM	0.54	mg/Kg	J
T-1-3	MY08R0	12/05/2001	3	Metals	FD	CADMIUM	0.18	mg/Kg	J
T-1-3	MY08Q9	12/05/2001	3	Metals	N	CADMIUM	0.17	mg/Kg	J
T-1-3	MY08Q9	12/05/2001	3	Metals	N	CALCIUM	5050	mg/Kg	
T-1-3	MY08R0	12/05/2001	3	Metals	FD	CALCIUM	5680	mg/Kg	
T-1-3	MY08Q9	12/05/2001	3	Metals	N	CHROMIUM	116	mg/Kg	
T-1-3	MY08R0	12/05/2001	3	Metals	FD	CHROMIUM	120	mg/Kg	
T-1-3	MY08Q9	12/05/2001	3	Metals	N	COBALT	30.1	mg/Kg	
T-1-3	MY08R0	12/05/2001	3	Metals	FD	COBALT	22.7	mg/Kg	
T-1-3	MY08R0	12/05/2001	3	Metals	FD	COPPER	55.1	mg/Kg	
T-1-3	MY08Q9	12/05/2001	3	Metals	N	COPPER	56.1	mg/Kg	
T-1-3	MY08Q9	12/05/2001	3	Metals	N	IRON	43300	mg/Kg	
T-1-3	MY08R0	12/05/2001	3	Metals	FD	IRON	40700	mg/Kg	
T-1-3	MY08Q9	12/05/2001	3	Metals	N	LEAD	8.9	mg/Kg	
T-1-3	MY08R0	12/05/2001	3	Metals	FD	LEAD	9	mg/Kg	
T-1-3	MY08Q9	12/05/2001	3	Metals	N	MAGNESIUM	23700	mg/Kg	
T-1-3	MY08R0	12/05/2001	3	Metals	FD	MAGNESIUM	24800	mg/Kg	
T-1-3	MY08Q9	12/05/2001	3	Metals	N	MANGANESE	807	mg/Kg	J
T-1-3	MY08R0	12/05/2001	3	Metals	FD	MANGANESE	421	mg/Kg	J
T-1-3	MY08Q9	12/05/2001	3	Metals	N	MERCURY	0.16	mg/Kg	
T-1-3	MY08R0	12/05/2001	3	Metals	FD	MERCURY	0.15	mg/Kg	
T-1-3	MY08Q9	12/05/2001	3	Metals	N	NICKEL	272	mg/Kg	
T-1-3	MY08R0	12/05/2001	3	Metals	FD	NICKEL	252	mg/Kg	
T-1-3	MY08R0	12/05/2001	3	Metals	FD	POTASSIUM	1360	mg/Kg	J
T-1-3	MY08Q9	12/05/2001	3	Metals	N	POTASSIUM	1360	mg/Kg	J
T-1-3	MY08Q9	12/05/2001	3	Metals	N	SELENIUM	1.5	mg/Kg	J
T-1-3	MY08R0	12/05/2001	3	Metals	FD	SELENIUM	1.3	mg/Kg	J
T-1-3	MY08Q9	12/05/2001	3	Metals	N	SODIUM	866	mg/Kg	J
T-1-3	MY08R0	12/05/2001	3	Metals	FD	SODIUM	845	mg/Kg	J
T-1-3	MY08R0	12/05/2001	3	Metals	FD	VANADIUM	68.3	mg/Kg	
T-1-3	MY08Q9	12/05/2001	3	Metals	N	VANADIUM	74.7	mg/Kg	
T-1-3	MY08R0	12/05/2001	3	Metals	FD	ZINC	94.7	mg/Kg	
T-1-3	MY08Q9	12/05/2001	3	Metals	N	ZINC	93.4	mg/Kg	
T-1-3	Y0C01	12/05/2001	3	Pest/PCBs	FD	Percent Solids	76	%	
T-1-3	Y0C00	12/05/2001	3	Pest/PCBs	N	Percent Solids	76	%	
T-1-3	Y0C00	12/05/2001	3	Pest/PCBs	N	Percent Solids	76	%	
T-1-3	Y0C01	12/05/2001	3	Pest/PCBs	FD	Percent Solids	76	%	
T-1-3	Y0C01	12/05/2001	3	Pest/PCBs	FD	4,4'-DDT	4.9	ug/Kg	J
T-1-3	Y0C01	12/05/2001	3	Pest/PCBs	FD	Endosulfan sulfate	2.4	ug/Kg	J
T-1-3	Y0C01	12/05/2001	3	Pest/PCBs	FD	Endosulfan II	4	ug/Kg	J
T-1-3	Y0C01	12/05/2001	3	Pest/PCBs	FD	4,4'-DDE	3.9	ug/Kg	J
T-1-3	Y0C01	12/05/2001	3	Pest/PCBs	FD	Dieldrin	2.5	ug/Kg	J
T-1-3	Y0C00	12/05/2001	3	VOCs	N	Dichloromethane	9	ug/Kg	UJ
T-1-3	Y0C01	12/05/2001	3	VOCs	FD	Dichloromethane	16	ug/Kg	UJ
T-1-3	Y0C01	12/05/2001	3	VOCs	FD	Acetone	44	ug/Kg	UJ

Table 8-2
Chemicals Detected in the Area of the Former Above-Ground Storage Tanks

Location	Sample ID	Sample Date	Depth (ft)	Method	QA/QC Type[1]	Analyte	Result[2]	Units	Flag[3]
T-1-3	Y0C00	12/05/2001	3	VOCs	N	Acetone	39	ug/Kg	UJ
T-1-3	Y0C00	12/05/2001	3	VOCs	N	Bromomethane	4	ug/Kg	UJ
T-1-3	Y0C01	12/05/2001	3	VOCs	FD	Bromomethane	4	ug/Kg	UJ
T-1-3	Y0C01	12/05/2001	3	VOCs	FD	1,1,2-Trichloro-1,2,2-trifluoroethane	2	ug/Kg	J
T-1-3	Y0C01	12/05/2001	3	VOCs	FD	Chloromethane	2	ug/Kg	J
T-1-3	Y0C01	12/05/2001	3	VOCs	FD	4-Methyl-2-pentanone	2	ug/Kg	J
T-1-3	Y0C01	12/05/2001	3	VOCs	FD	2-Butanone	6	ug/Kg	J
T-1-8	39282	12/05/2001	8	8015B	N	TPH as Diesel	6	mg/Kg	J
T-1-8	39282	12/05/2001	8	8015B	N	TPH as Motor Oil	30	mg/Kg	UJ
T-1-8	MY08R1	12/05/2001	8	Metals	N	ALUMINUM	17800	mg/Kg	
T-1-8	MY08R1	12/05/2001	8	Metals	N	ANTIMONY	0.91	mg/Kg	UJ
T-1-8	MY08R1	12/05/2001	8	Metals	N	ARSENIC	6.7	mg/Kg	
T-1-8	MY08R1	12/05/2001	8	Metals	N	BARIUM	268	mg/Kg	
T-1-8	MY08R1	12/05/2001	8	Metals	N	BERYLLIUM	0.58	mg/Kg	J
T-1-8	MY08R1	12/05/2001	8	Metals	N	CADMIUM	0.9	mg/Kg	J
T-1-8	MY08R1	12/05/2001	8	Metals	N	CALCIUM	3040	mg/Kg	
T-1-8	MY08R1	12/05/2001	8	Metals	N	CHROMIUM	93.4	mg/Kg	
T-1-8	MY08R1	12/05/2001	8	Metals	N	COBALT	32.3	mg/Kg	
T-1-8	MY08R1	12/05/2001	8	Metals	N	COPPER	52.4	mg/Kg	
T-1-8	MY08R1	12/05/2001	8	Metals	N	IRON	36400	mg/Kg	
T-1-8	MY08R1	12/05/2001	8	Metals	N	LEAD	10.9	mg/Kg	
T-1-8	MY08R1	12/05/2001	8	Metals	N	MAGNESIUM	19800	mg/Kg	
T-1-8	MY08R1	12/05/2001	8	Metals	N	MANGANESE	1210	mg/Kg	J
T-1-8	MY08R1	12/05/2001	8	Metals	N	MERCURY	0.16	mg/Kg	
T-1-8	MY08R1	12/05/2001	8	Metals	N	NICKEL	242	mg/Kg	
T-1-8	MY08R1	12/05/2001	8	Metals	N	POTASSIUM	1260	mg/Kg	J
T-1-8	MY08R1	12/05/2001	8	Metals	N	SODIUM	1050	mg/Kg	J
T-1-8	MY08R1	12/05/2001	8	Metals	N	VANADIUM	60.3	mg/Kg	
T-1-8	MY08R1	12/05/2001	8	Metals	N	ZINC	136	mg/Kg	
T-1-8	Y0C02	12/05/2001	8	Pest/PCBs	N	Percent Solids	78	%	
T-1-8	Y0C02	12/05/2001	8	Pest/PCBs	N	Percent Solids	78	%	
T-1-8	Y0C02	12/05/2001	8	VOCs	N	Bromomethane	3	ug/Kg	UJ
T-1-8	Y0C02	12/05/2001	8	VOCs	N	Dichloromethane	10	ug/Kg	UJ
T-1-8	Y0C02	12/05/2001	8	VOCs	N	Acetone	18	ug/Kg	UJ
T-1-8	Y0C02	12/05/2001	8	VOCs	N	Carbon Disulfide	2	ug/Kg	J
T-1-8	Y0C02	12/05/2001	8	VOCs	N	4-Methyl-2-pentanone	2	ug/Kg	J
T-1-13	39283	12/05/2001	13	8015B	N	TPH as Diesel	4	mg/Kg	J
T-1-13	MY08R2	12/05/2001	13	Metals	N	ALUMINUM	19300	mg/Kg	
T-1-13	MY08R2	12/05/2001	13	Metals	N	ANTIMONY	0.93	mg/Kg	UJ
T-1-13	MY08R2	12/05/2001	13	Metals	N	ARSENIC	8.7	mg/Kg	
T-1-13	MY08R2	12/05/2001	13	Metals	N	BARIUM	238	mg/Kg	
T-1-13	MY08R2	12/05/2001	13	Metals	N	BERYLLIUM	0.5	mg/Kg	J
T-1-13	MY08R2	12/05/2001	13	Metals	N	CADMIUM	0.35	mg/Kg	J
T-1-13	MY08R2	12/05/2001	13	Metals	N	CALCIUM	5030	mg/Kg	
T-1-13	MY08R2	12/05/2001	13	Metals	N	CHROMIUM	109	mg/Kg	
T-1-13	MY08R2	12/05/2001	13	Metals	N	COBALT	29.2	mg/Kg	
T-1-13	MY08R2	12/05/2001	13	Metals	N	COPPER	54.3	mg/Kg	
T-1-13	MY08R2	12/05/2001	13	Metals	N	IRON	41300	mg/Kg	
T-1-13	MY08R2	12/05/2001	13	Metals	N	LEAD	9.4	mg/Kg	
T-1-13	MY08R2	12/05/2001	13	Metals	N	MAGNESIUM	22700	mg/Kg	
T-1-13	MY08R2	12/05/2001	13	Metals	N	MANGANESE	1050	mg/Kg	J
T-1-13	MY08R2	12/05/2001	13	Metals	N	MERCURY	0.1	mg/Kg	J
T-1-13	MY08R2	12/05/2001	13	Metals	N	NICKEL	252	mg/Kg	
T-1-13	MY08R2	12/05/2001	13	Metals	N	POTASSIUM	1500	mg/Kg	J
T-1-13	MY08R2	12/05/2001	13	Metals	N	SODIUM	893	mg/Kg	J
T-1-13	MY08R2	12/05/2001	13	Metals	N	VANADIUM	71.4	mg/Kg	
T-1-13	MY08R2	12/05/2001	13	Metals	N	ZINC	107	mg/Kg	

Table 8-2
Chemicals Detected in the Area of the Former Above-Ground Storage Tanks

Location	Sample ID	Sample Date	Depth (ft)	Method	QA/QC Type[1]	Analyte	Result [2]	Units	Flag[3]
T-1-13	Y0C03	12/05/2001	13	Pest/PCBs	N	Percent Solids	81	%	
T-1-13	Y0C03	12/05/2001	13	Pest/PCBs	N	Percent Solids	81	%	
T-1-13	Y0C03	12/05/2001	13	VOCs	N	Dichloromethane	16	ug/Kg	UJ
T-1-13	Y0C03	12/05/2001	13	VOCs	N	Bromomethane	2	ug/Kg	UJ
T-1-13	Y0C03	12/05/2001	13	VOCs	N	Acetone	31	ug/Kg	UJ
T-1-13	Y0C03	12/05/2001	13	VOCs	N	1,1,2-Trichloro-1,2,2-trifluoroethane	2	ug/Kg	J
T-1-13	Y0C03	12/05/2001	13	VOCs	N	Carbon Disulfide	4	ug/Kg	J
T-1-13	Y0C03	12/05/2001	13	VOCs	N	2-Butanone	4	ug/Kg	J
T-1-18	39284	12/05/2001	18	8015B	N	TPH as Diesel	6	mg/Kg	UJ
T-1-18	MY08R3	12/05/2001	18	Metals	N	ALUMINUM	15500	mg/Kg	
T-1-18	MY08R3	12/05/2001	18	Metals	N	ANTIMONY	0.93	mg/Kg	UJ
T-1-18	MY08R3	12/05/2001	18	Metals	N	ARSENIC	6.7	mg/Kg	
T-1-18	MY08R3	12/05/2001	18	Metals	N	BARIUM	96.3	mg/Kg	
T-1-18	MY08R3	12/05/2001	18	Metals	N	BERYLLIUM	0.42	mg/Kg	J
T-1-18	MY08R3	12/05/2001	18	Metals	N	CALCIUM	2030	mg/Kg	
T-1-18	MY08R3	12/05/2001	18	Metals	N	CHROMIUM	81.3	mg/Kg	
T-1-18	MY08R3	12/05/2001	18	Metals	N	COBALT	22.5	mg/Kg	
T-1-18	MY08R3	12/05/2001	18	Metals	N	COPPER	46.2	mg/Kg	
T-1-18	MY08R3	12/05/2001	18	Metals	N	IRON	33200	mg/Kg	
T-1-18	MY08R3	12/05/2001	18	Metals	N	LEAD	7.8	mg/Kg	
T-1-18	MY08R3	12/05/2001	18	Metals	N	MAGNESIUM	18600	mg/Kg	
T-1-18	MY08R3	12/05/2001	18	Metals	N	MANGANESE	462	mg/Kg	J
T-1-18	MY08R3	12/05/2001	18	Metals	N	MERCURY	0.11	mg/Kg	J
T-1-18	MY08R3	12/05/2001	18	Metals	N	NICKEL	185	mg/Kg	
T-1-18	MY08R3	12/05/2001	18	Metals	N	POTASSIUM	1010	mg/Kg	J
T-1-18	MY08R3	12/05/2001	18	Metals	N	SODIUM	807	mg/Kg	J
T-1-18	MY08R3	12/05/2001	18	Metals	N	VANADIUM	59.6	mg/Kg	
T-1-18	MY08R3	12/05/2001	18	Metals	N	ZINC	76.8	mg/Kg	
T-1-18	Y0C04	12/05/2001	18	Pest/PCBs	N	Percent Solids	80	%	
T-1-18	Y0C04	12/05/2001	18	Pest/PCBs	N	Percent Solids	80	%	
T-1-18	Y0C04	12/05/2001	18	VOCs	N	Dichloromethane	11	ug/Kg	UJ
T-1-18	Y0C04	12/05/2001	18	VOCs	N	Bromomethane	2	ug/Kg	UJ
T-1-18	Y0C04	12/05/2001	18	VOCs	N	Acetone	49	ug/Kg	UJ
T-1-18	Y0C04	12/05/2001	18	VOCs	N	Chloromethane	1	ug/Kg	J
T-1-18	Y0C04	12/05/2001	18	VOCs	N	2-Butanone	7	ug/Kg	J
T-1-23	39285	12/05/2001	23	8015B	N	TPH as Motor Oil	10	mg/Kg	J
T-1-23	39285	12/05/2001	23	8015B	N	TPH as Diesel	5	mg/Kg	J
T-1-23	MY08R4	12/05/2001	23	Metals	N	ALUMINUM	10300	mg/Kg	
T-1-23	MY08R4	12/05/2001	23	Metals	N	ANTIMONY	0.83	mg/Kg	UJ
T-1-23	MY08R4	12/05/2001	23	Metals	N	ARSENIC	3.2	mg/Kg	
T-1-23	MY08R4	12/05/2001	23	Metals	N	BARIUM	170	mg/Kg	
T-1-23	MY08R4	12/05/2001	23	Metals	N	BERYLLIUM	0.4	mg/Kg	J
T-1-23	MY08R4	12/05/2001	23	Metals	N	CALCIUM	1880	mg/Kg	
T-1-23	MY08R4	12/05/2001	23	Metals	N	CHROMIUM	37.1	mg/Kg	
T-1-23	MY08R4	12/05/2001	23	Metals	N	COBALT	22	mg/Kg	
T-1-23	MY08R4	12/05/2001	23	Metals	N	COPPER	27.8	mg/Kg	
T-1-23	MY08R4	12/05/2001	23	Metals	N	IRON	18200	mg/Kg	
T-1-23	MY08R4	12/05/2001	23	Metals	N	LEAD	10.9	mg/Kg	
T-1-23	MY08R4	12/05/2001	23	Metals	N	MAGNESIUM	8780	mg/Kg	
T-1-23	MY08R4	12/05/2001	23	Metals	N	MANGANESE	1270	mg/Kg	J
T-1-23	MY08R4	12/05/2001	23	Metals	N	NICKEL	91.7	mg/Kg	
T-1-23	MY08R4	12/05/2001	23	Metals	N	POTASSIUM	715	mg/Kg	J
T-1-23	MY08R4	12/05/2001	23	Metals	N	SODIUM	664	mg/Kg	J
T-1-23	MY08R4	12/05/2001	23	Metals	N	VANADIUM	33.1	mg/Kg	
T-1-23	MY08R4	12/05/2001	23	Metals	N	ZINC	46.1	mg/Kg	
T-1-23	Y0C05	12/05/2001	23	Pest/PCBs	N	Percent Solids	84	%	
T-1-23	Y0C05	12/05/2001	23	Pest/PCBs	N	Percent Solids	84	%	

Table 8-2
Chemicals Detected in the Area of the Former Above-Ground Storage Tanks

Location	Sample ID	Sample Date	Depth (ft)	Method	QA/QC Type[1]	Analyte	Result[2]	Units	Flag[3]
T-1-23	Y0C05	12/05/2001	23	VOCs	N	Acetone	15	ug/Kg	UJ
T-1-23	Y0C05	12/05/2001	23	VOCs	N	Bromomethane	2	ug/Kg	UJ
T-1-23	Y0C05	12/05/2001	23	VOCs	N	Dichloromethane	13	ug/Kg	UJ
T-1-23	Y0C05	12/05/2001	23	VOCs	N	1,1,2-Trichloro-1,2,2-trifluoroethane	2	ug/Kg	J
T-1-23	Y0C05	12/05/2001	23	VOCs	N	Chloromethane	2	ug/Kg	J
T-1-28	39286	12/05/2001	28	8015B	N	TPH as Motor Oil	10	mg/Kg	J
T-1-28	39286	12/05/2001	28	8015B	N	TPH as Diesel	6	mg/Kg	J
T-1-28	MY08R5	12/05/2001	28	Metals	N	ALUMINUM	9630	mg/Kg	
T-1-28	MY08R5	12/05/2001	28	Metals	N	ANTIMONY	0.86	mg/Kg	UJ
T-1-28	MY08R5	12/05/2001	28	Metals	N	ARSENIC	3.8	mg/Kg	
T-1-28	MY08R5	12/05/2001	28	Metals	N	BARIUM	81.4	mg/Kg	
T-1-28	MY08R5	12/05/2001	28	Metals	N	BERYLLIUM	0.33	mg/Kg	J
T-1-28	MY08R5	12/05/2001	28	Metals	N	CALCIUM	1020	mg/Kg	J
T-1-28	MY08R5	12/05/2001	28	Metals	N	CHROMIUM	41.4	mg/Kg	
T-1-28	MY08R5	12/05/2001	28	Metals	N	COBALT	21.1	mg/Kg	
T-1-28	MY08R5	12/05/2001	28	Metals	N	COPPER	25.3	mg/Kg	
T-1-28	MY08R5	12/05/2001	28	Metals	N	IRON	19400	mg/Kg	
T-1-28	MY08R5	12/05/2001	28	Metals	N	LEAD	8.8	mg/Kg	
T-1-28	MY08R5	12/05/2001	28	Metals	N	MAGNESIUM	7960	mg/Kg	
T-1-28	MY08R5	12/05/2001	28	Metals	N	MANGANESE	702	mg/Kg	J
T-1-28	MY08R5	12/05/2001	28	Metals	N	MERCURY	0.07	mg/Kg	J
T-1-28	MY08R5	12/05/2001	28	Metals	N	NICKEL	77	mg/Kg	
T-1-28	MY08R5	12/05/2001	28	Metals	N	POTASSIUM	592	mg/Kg	J
T-1-28	MY08R5	12/05/2001	28	Metals	N	SODIUM	632	mg/Kg	J
T-1-28	MY08R5	12/05/2001	28	Metals	N	VANADIUM	37.1	mg/Kg	
T-1-28	MY08R5	12/05/2001	28	Metals	N	ZINC	43.2	mg/Kg	
T-1-28	Y0C06	12/05/2001	28	Pest/PCBs	N	Percent Solids	86	%	
T-1-28	Y0C06	12/05/2001	28	Pest/PCBs	N	Percent Solids	86	%	
T-1-28	Y0C06	12/05/2001	28	VOCs	N	Acetone	19	ug/Kg	UJ
T-1-28	Y0C06	12/05/2001	28	VOCs	N	Dichloromethane	8	ug/Kg	UJ
T-1-28	Y0C06	12/05/2001	28	VOCs	N	Bromomethane	2	ug/Kg	UJ
T-1-28	Y0C06	12/05/2001	28	VOCs	N	4-Methyl-2-pentanone	3	ug/Kg	J
T-2-3	39287	12/05/2001	3	8015B	N	TPH as Diesel	6	mg/Kg	J
T-2-3	MY08R6	12/05/2001	3	Metals	N	ALUMINUM	19100	mg/Kg	
T-2-3	MY08R6	12/05/2001	3	Metals	N	ALUMINUM	10100	mg/Kg	
T-2-3	MY08R6	12/05/2001	3	Metals	N	ANTIMONY	0.85	mg/Kg	UJ
T-2-3	MY08R6	12/05/2001	3	Metals	N	ARSENIC	7.9	mg/Kg	
T-2-3	MY08R6	12/05/2001	3	Metals	N	BARIUM	109	mg/Kg	
T-2-3	MY08R6	12/05/2001	3	Metals	N	BERYLLIUM	0.47	mg/Kg	J
T-2-3	MY08R6	12/05/2001	3	Metals	N	CALCIUM	4190	mg/Kg	
T-2-3	MY08R6	12/05/2001	3	Metals	N	CALCIUM	1410	mg/Kg	
T-2-3	MY08R6	12/05/2001	3	Metals	N	CHROMIUM	36.9	mg/Kg	
T-2-3	MY08R6	12/05/2001	3	Metals	N	COBALT	23.2	mg/Kg	
T-2-3	MY08R6	12/05/2001	3	Metals	N	COPPER	86.8	mg/Kg	
T-2-3	MY08R6	12/05/2001	3	Metals	N	IRON	36500	mg/Kg	
T-2-3	MY08R6	12/05/2001	3	Metals	N	LEAD	9.7	mg/Kg	
T-2-3	MY08R6	12/05/2001	3	Metals	N	MAGNESIUM	22600	mg/Kg	
T-2-3	MY08R6	12/05/2001	3	Metals	N	MAGNESIUM	9650	mg/Kg	
T-2-3	MY08R6	12/05/2001	3	Metals	N	MANGANESE	455	mg/Kg	J
T-2-3	MY08R6	12/05/2001	3	Metals	N	MERCURY	0.08	mg/Kg	J
T-2-3	MY08R6	12/05/2001	3	Metals	N	NICKEL	186	mg/Kg	
T-2-3	MY08R6	12/05/2001	3	Metals	N	POTASSIUM	1020	mg/Kg	J
T-2-3	MY08R6	12/05/2001	3	Metals	N	SELENIUM	1.5	mg/Kg	J
T-2-3	MY08R6	12/05/2001	3	Metals	N	SODIUM	681	mg/Kg	J
T-2-3	MY08R6	12/05/2001	3	Metals	N	VANADIUM	56.7	mg/Kg	
T-2-3	MY08R6	12/05/2001	3	Metals	N	ZINC	100	mg/Kg	
T-2-3	Y0C07	12/05/2001	3	Pest/PCBs	N	Percent Solids	79	%	

Table 8-2
Chemicals Detected in the Area of the Former Above-Ground Storage Tanks

Location	Sample ID	Sample Date	Depth (ft)	Method	QA/QC Type[1]	Analyte	Result[2]	Units	Flag[3]
T-2-3	Y0C07	12/05/2001	3	Pest/PCBs	N	Percent Solids	79	%	
T-2-3	Y0C07	12/05/2001	3	Pest/PCBs	N	Percent Solids	79	%	
T-2-3	Y0C07	12/05/2001	3	VOCs	N	Bromomethane	3	ug/Kg	UJ
T-2-3	Y0C07	12/05/2001	3	VOCs	N	Dichloromethane	9	ug/Kg	UJ
T-2-3	Y0C07	12/05/2001	3	VOCs	N	Chloromethane	1	ug/Kg	J
T-2-3	Y0C07	12/05/2001	3	VOCs	N	Acetone	76	ug/Kg	J
T-2-3	Y0C07	12/05/2001	3	VOCs	N	2-Butanone	10	ug/Kg	J
T-2-3	Y0C07	12/05/2001	3	VOCs	N	1,2-Dichloropropane (DCP)	10	ug/Kg	J
T-2-3	Y0C07	12/05/2001	3	VOCs	N	Carbon Disulfide	4	ug/Kg	J
T-2-8	39288	12/05/2001	8	8015B	N	TPH as Diesel	6	mg/Kg	UJ
T-2-8	MY08R7	12/05/2001	8	Metals	N	ALUMINUM	21200	mg/Kg	
T-2-8	MY08R7	12/05/2001	8	Metals	N	ANTIMONY	0.88	mg/Kg	UJ
T-2-8	MY08R7	12/05/2001	8	Metals	N	ANTIMONY	0.89	mg/Kg	UJ
T-2-8	MY08R7	12/05/2001	8	Metals	N	ARSENIC	3.1	mg/Kg	
T-2-8	MY08R7	12/05/2001	8	Metals	N	BARIUM	179	mg/Kg	
T-2-8	MY08R7	12/05/2001	8	Metals	N	BERYLLIUM	0.59	mg/Kg	J
T-2-8	MY08R7	12/05/2001	8	Metals	N	CADMIUM	0.21	mg/Kg	J
T-2-8	MY08R7	12/05/2001	8	Metals	N	CALCIUM	4740	mg/Kg	
T-2-8	MY08R7	12/05/2001	8	Metals	N	CHROMIUM	55.4	mg/Kg	
T-2-8	MY08R7	12/05/2001	8	Metals	N	CHROMIUM	115	mg/Kg	
T-2-8	MY08R7	12/05/2001	8	Metals	N	COBALT	11.8	mg/Kg	
T-2-8	MY08R7	12/05/2001	8	Metals	N	COPPER	52.6	mg/Kg	
T-2-8	MY08R7	12/05/2001	8	Metals	N	IRON	33000	mg/Kg	
T-2-8	MY08R7	12/05/2001	8	Metals	N	LEAD	10.5	mg/Kg	
T-2-8	MY08R7	12/05/2001	8	Metals	N	MAGNESIUM	21800	mg/Kg	
T-2-8	MY08R7	12/05/2001	8	Metals	N	MANGANESE	441	mg/Kg	J
T-2-8	MY08R7	12/05/2001	8	Metals	N	MANGANESE	615	mg/Kg	J
T-2-8	MY08R7	12/05/2001	8	Metals	N	MERCURY	0.05	mg/Kg	J
T-2-8	MY08R7	12/05/2001	8	Metals	N	NICKEL	189	mg/Kg	
T-2-8	MY08R7	12/05/2001	8	Metals	N	POTASSIUM	1220	mg/Kg	J
T-2-8	MY08R7	12/05/2001	8	Metals	N	SELENIUM	1.3	mg/Kg	J
T-2-8	MY08R7	12/05/2001	8	Metals	N	SODIUM	688	mg/Kg	J
T-2-8	MY08R7	12/05/2001	8	Metals	N	SODIUM	645	mg/Kg	J
T-2-8	MY08R7	12/05/2001	8	Metals	N	VANADIUM	61.4	mg/Kg	
T-2-8	MY08R7	12/05/2001	8	Metals	N	ZINC	77.6	mg/Kg	
T-2-8	Y0C08	12/05/2001	8	Pest/PCBs	N	Percent Solids	82	%	
T-2-8	Y0C08	12/05/2001	8	Pest/PCBs	N	Percent Solids	82	%	
T-2-8	Y0C08	12/05/2001	8	Pest/PCBs	N	Percent Solids	82	%	
T-2-8	Y0C08	12/05/2001	8	Pest/PCBs	N	Methoxychlor	3.4	ug/Kg	J
T-2-8	Y0C08	12/05/2001	8	VOCs	N	Acetone	27	ug/Kg	UJ
T-2-8	Y0C08	12/05/2001	8	VOCs	N	Dichloromethane	14	ug/Kg	UJ
T-2-8	Y0C08	12/05/2001	8	VOCs	N	Chloromethane	2	ug/Kg	J
T-2-8	Y0C08	12/05/2001	8	VOCs	N	1,2-Dichloropropane (DCP)	4	ug/Kg	J
T-2-13	39289	12/05/2001	13	8015B	N	TPH as Diesel	6	mg/Kg	UJ
T-2-13	39289	12/05/2001	13	8015B	N	TPH as Motor Oil	20	mg/Kg	UJ
T-2-13	MY08R8	12/05/2001	13	Metals	N	ALUMINUM	15700	mg/Kg	
T-2-13	MY08R8	12/05/2001	13	Metals	N	ANTIMONY	0.85	mg/Kg	UJ
T-2-13	MY08R8	12/05/2001	13	Metals	N	ARSENIC	7.3	mg/Kg	
T-2-13	MY08R8	12/05/2001	13	Metals	N	ARSENIC	3.9	mg/Kg	
T-2-13	MY08R8	12/05/2001	13	Metals	N	BARIUM	99.4	mg/Kg	
T-2-13	MY08R8	12/05/2001	13	Metals	N	BERYLLIUM	0.45	mg/Kg	J
T-2-13	MY08R8	12/05/2001	13	Metals	N	CADMIUM	0.25	mg/Kg	J
T-2-13	MY08R8	12/05/2001	13	Metals	N	CALCIUM	2560	mg/Kg	
T-2-13	MY08R8	12/05/2001	13	Metals	N	CHROMIUM	106	mg/Kg	
T-2-13	MY08R8	12/05/2001	13	Metals	N	COBALT	17.1	mg/Kg	
T-2-13	MY08R8	12/05/2001	13	Metals	N	COBALT	26.3	mg/Kg	
T-2-13	MY08R8	12/05/2001	13	Metals	N	COPPER	27.5	mg/Kg	

Table 8-2
Chemicals Detected in the Area of the Former Above-Ground Storage Tanks

Location	Sample ID	Sample Date	Depth (ft)	Method	QA/QC Type[1]	Analyte	Result[2]	Units	Flag[3]
T-2-13	MY08R8	12/05/2001	13	Metals	N	IRON	34100	mg/Kg	
T-2-13	MY08R8	12/05/2001	13	Metals	N	LEAD	8.7	mg/Kg	
T-2-13	MY08R8	12/05/2001	13	Metals	N	MAGNESIUM	25600	mg/Kg	
T-2-13	MY08R8	12/05/2001	13	Metals	N	MANGANESE	430	mg/Kg	J
T-2-13	MY08R8	12/05/2001	13	Metals	N	MERCURY	0.11	mg/Kg	
T-2-13	MY08R8	12/05/2001	13	Metals	N	MERCURY	0.19	mg/Kg	
T-2-13	MY08R8	12/05/2001	13	Metals	N	NICKEL	73.5	mg/Kg	
T-2-13	MY08R8	12/05/2001	13	Metals	N	POTASSIUM	1270	mg/Kg	J
T-2-13	MY08R8	12/05/2001	13	Metals	N	SELENIUM	1.2	mg/Kg	J
T-2-13	MY08R8	12/05/2001	13	Metals	N	SODIUM	735	mg/Kg	J
T-2-13	MY08R8	12/05/2001	13	Metals	N	VANADIUM	35.4	mg/Kg	
T-2-13	MY08R8	12/05/2001	13	Metals	N	ZINC	78.3	mg/Kg	
T-2-13	Y0C09	12/05/2001	13	Pest/PCBs	N	Percent Solids	79	%	
T-2-13	Y0C09	12/05/2001	13	Pest/PCBs	N	Percent Solids	79	%	
T-2-13	Y0C09	12/05/2001	13	Pest/PCBs	N	Percent Solids	79	%	
T-2-13	Y0C09	12/05/2001	13	Pest/PCBs	N	Methoxychlor	1.4	ug/Kg	J
T-2-13	Y0C09	12/05/2001	13	VOCs	N	Bromomethane	1	ug/Kg	UJ
T-2-13	Y0C09	12/05/2001	13	VOCs	N	Acetone	10	ug/Kg	UJ
T-2-13	Y0C09	12/05/2001	13	VOCs	N	Dichloromethane	9	ug/Kg	UJ
T-2-18	39290	12/05/2001	18	8015B	N	TPH as Diesel	8	mg/Kg	J
T-2-18	39291	12/05/2001	18	8015B	N	TPH as Diesel	6	mg/Kg	J
T-2-18	39291	12/05/2001	18	8015B	N	TPH as Motor Oil	10	mg/Kg	J
T-2-18	39290	12/05/2001	18	8015B	N	TPH as Motor Oil	10	mg/Kg	J
T-2-18	MY08R9	12/05/2001	18	Metals	N	ALUMINUM	15500	mg/Kg	
T-2-18	MY08S0	12/05/2001	18	Metals	FD	ALUMINUM	16200	mg/Kg	
T-2-18	MY08R9	12/05/2001	18	Metals	N	ANTIMONY	0.89	mg/Kg	UJ
T-2-18	MY08S0	12/05/2001	18	Metals	FD	ANTIMONY	1.4	mg/Kg	J
T-2-18	MY08S0	12/05/2001	18	Metals	FD	ARSENIC	7.8	mg/Kg	
T-2-18	MY08R9	12/05/2001	18	Metals	N	ARSENIC	7.4	mg/Kg	
T-2-18	MY08S0	12/05/2001	18	Metals	FD	BARIUM	227	mg/Kg	
T-2-18	MY08R9	12/05/2001	18	Metals	N	BARIUM	220	mg/Kg	
T-2-18	MY08R9	12/05/2001	18	Metals	N	BARIUM	53.9	mg/Kg	
T-2-18	MY08S0	12/05/2001	18	Metals	FD	BERYLLIUM	0.49	mg/Kg	J
T-2-18	MY08S0	12/05/2001	18	Metals	FD	CALCIUM	4730	mg/Kg	
T-2-18	MY08R9	12/05/2001	18	Metals	N	CALCIUM	4980	mg/Kg	
T-2-18	MY08R9	12/05/2001	18	Metals	N	CHROMIUM	112	mg/Kg	
T-2-18	MY08S0	12/05/2001	18	Metals	FD	CHROMIUM	79.9	mg/Kg	
T-2-18	MY08R9	12/05/2001	18	Metals	N	COBALT	22.3	mg/Kg	
T-2-18	MY08S0	12/05/2001	18	Metals	FD	COBALT	24.7	mg/Kg	
T-2-18	MY08R9	12/05/2001	18	Metals	N	COPPER	30	mg/Kg	
T-2-18	MY08S0	12/05/2001	18	Metals	FD	COPPER	59.2	mg/Kg	
T-2-18	MY08R9	12/05/2001	18	Metals	N	COPPER	52.8	mg/Kg	
T-2-18	MY08S0	12/05/2001	18	Metals	FD	IRON	20600	mg/Kg	
T-2-18	MY08R9	12/05/2001	18	Metals	N	IRON	19800	mg/Kg	
T-2-18	MY08S0	12/05/2001	18	Metals	FD	IRON	39900	mg/Kg	
T-2-18	MY08R9	12/05/2001	18	Metals	N	LEAD	8.2	mg/Kg	
T-2-18	MY08S0	12/05/2001	18	Metals	FD	LEAD	7.4	mg/Kg	
T-2-18	MY08S0	12/05/2001	18	Metals	FD	MAGNESIUM	18400	mg/Kg	
T-2-18	MY08R9	12/05/2001	18	Metals	N	MAGNESIUM	18900	mg/Kg	
T-2-18	MY08S0	12/05/2001	18	Metals	FD	MANGANESE	750	mg/Kg	J
T-2-18	MY08R9	12/05/2001	18	Metals	N	MANGANESE	750	mg/Kg	J
T-2-18	MY08R9	12/05/2001	18	Metals	N	MERCURY	0.13	mg/Kg	
T-2-18	MY08S0	12/05/2001	18	Metals	FD	MERCURY	0.08	mg/Kg	J
T-2-18	MY08R9	12/05/2001	18	Metals	N	NICKEL	91.7	mg/Kg	
T-2-18	MY08R9	12/05/2001	18	Metals	N	NICKEL	260	mg/Kg	
T-2-18	MY08S0	12/05/2001	18	Metals	FD	NICKEL	213	mg/Kg	
T-2-18	MY08S0	12/05/2001	18	Metals	FD	POTASSIUM	605	mg/Kg	J

Table 8-2
Chemicals Detected in the Area of the Former Above-Ground Storage Tanks

Location	Sample ID	Sample Date	Depth (ft)	Method	QA/QC Type[1]	Analyte	Result[2]	Units	Flag[3]
T-2-18	MY08R9	12/05/2001	18	Metals	N	POTASSIUM	900	mg/Kg	J
T-2-18	MY08S0	12/05/2001	18	Metals	FD	POTASSIUM	1350	mg/Kg	J
T-2-18	MY08R9	12/05/2001	18	Metals	N	SELENIUM	1.2	mg/Kg	J
T-2-18	MY08S0	12/05/2001	18	Metals	FD	SODIUM	750	mg/Kg	J
T-2-18	MY08R9	12/05/2001	18	Metals	N	SODIUM	906	mg/Kg	J
T-2-18	MY08R9	12/05/2001	18	Metals	N	VANADIUM	68.1	mg/Kg	
T-2-18	MY08S0	12/05/2001	18	Metals	FD	VANADIUM	72.1	mg/Kg	
T-2-18	MY08R9	12/05/2001	18	Metals	N	VANADIUM	34.8	mg/Kg	
T-2-18	MY08S0	12/05/2001	18	Metals	FD	ZINC	56.5	mg/Kg	
T-2-18	MY08R9	12/05/2001	18	Metals	N	ZINC	51.2	mg/Kg	
T-2-18	MY08S0	12/05/2001	18	Metals	FD	ZINC	89.2	mg/Kg	
T-2-18	Y0C10	12/05/2001	18	Pest/PCBs	N	Percent Solids	81	%	
T-2-18	Y0C11	12/05/2001	18	Pest/PCBs	FD	Percent Solids	80	%	
T-2-18	Y0C10	12/05/2001	18	Pest/PCBs	N	Percent Solids	81	%	
T-2-18	Y0C11	12/05/2001	18	Pest/PCBs	FD	Percent Solids	80	%	
T-2-18	Y0C11	12/05/2001	18	Pest/PCBs	FD	Percent Solids	80	%	
T-2-18	Y0C10	12/05/2001	18	Pest/PCBs	N	Percent Solids	81	%	
T-2-18	Y0C10	12/05/2001	18	VOCs	N	Acetone	20	ug/Kg	UJ
T-2-18	Y0C10	12/05/2001	18	VOCs	N	Bromomethane	2	ug/Kg	UJ
T-2-18	Y0C11	12/05/2001	18	VOCs	FD	Acetone	28	ug/Kg	UJ
T-2-18	Y0C10	12/05/2001	18	VOCs	N	Dichloromethane	6	ug/Kg	UJ
T-2-18	Y0C11	12/05/2001	18	VOCs	FD	Dichloromethane	11	ug/Kg	UJ
T-2-18	Y0C10	12/05/2001	18	VOCs	N	1,2-Dichloropropane (DCP)	1	ug/Kg	J
T-2-18	Y0C10	12/05/2001	18	VOCs	N	2-Butanone	3	ug/Kg	J
T-2-18	Y0C11	12/05/2001	18	VOCs	FD	1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/Kg	J
T-2-18	Y0C11	12/05/2001	18	VOCs	FD	1,2-Dichloropropane (DCP)	2	ug/Kg	J
T-2-23	39292	12/05/2001	23	8015B	N	TPH as Diesel	6	mg/Kg	J
T-2-23	39292	12/05/2001	23	8015B	N	TPH as Motor Oil	10	mg/Kg	J
T-2-23	MY08S1	12/05/2001	23	Metals	N	ALUMINUM	10700	mg/Kg	
T-2-23	MY08S1	12/05/2001	23	Metals	N	ANTIMONY	0.89	mg/Kg	UJ
T-2-23	MY08S1	12/05/2001	23	Metals	N	ARSENIC	11.6	mg/Kg	
T-2-23	MY08S1	12/05/2001	23	Metals	N	BARIUM	148	mg/Kg	
T-2-23	MY08S1	12/05/2001	23	Metals	N	BERYLLIUM	0.59	mg/Kg	J
T-2-23	MY08S1	12/05/2001	23	Metals	N	CADMIUM	0.14	mg/Kg	J
T-2-23	MY08S1	12/05/2001	23	Metals	N	CALCIUM	2310	mg/Kg	
T-2-23	MY08S1	12/05/2001	23	Metals	N	CHROMIUM	79.9	mg/Kg	
T-2-23	MY08S1	12/05/2001	23	Metals	N	COBALT	21.9	mg/Kg	
T-2-23	MY08S1	12/05/2001	23	Metals	N	COPPER	45.5	mg/Kg	
T-2-23	MY08S1	12/05/2001	23	Metals	N	IRON	41800	mg/Kg	
T-2-23	MY08S1	12/05/2001	23	Metals	N	LEAD	10.4	mg/Kg	
T-2-23	MY08S1	12/05/2001	23	Metals	N	LEAD	19.7	mg/Kg	
T-2-23	MY08S1	12/05/2001	23	Metals	N	MAGNESIUM	8510	mg/Kg	
T-2-23	MY08S1	12/05/2001	23	Metals	N	MANGANESE	885	mg/Kg	J
T-2-23	MY08S1	12/05/2001	23	Metals	N	MERCURY	0.1	mg/Kg	J
T-2-23	MY08S1	12/05/2001	23	Metals	N	NICKEL	256	mg/Kg	
T-2-23	MY08S1	12/05/2001	23	Metals	N	POTASSIUM	1360	mg/Kg	J
T-2-23	MY08S1	12/05/2001	23	Metals	N	SODIUM	775	mg/Kg	J
T-2-23	MY08S1	12/05/2001	23	Metals	N	VANADIUM	63	mg/Kg	
T-2-23	MY08S1	12/05/2001	23	Metals	N	ZINC	105	mg/Kg	
T-2-23	Y0C12	12/05/2001	23	Pest/PCBs	N	Percent Solids	82	%	
T-2-23	Y0C12	12/05/2001	23	Pest/PCBs	N	Percent Solids	82	%	
T-2-23	Y0C12	12/05/2001	23	Pest/PCBs	N	Percent Solids	82	%	
T-2-23	Y0C12	12/05/2001	23	VOCs	N	Bromomethane	2	ug/Kg	UJ
T-2-23	Y0C12	12/05/2001	23	VOCs	N	Dichloromethane	9	ug/Kg	UJ
T-2-23	Y0C12	12/05/2001	23	VOCs	N	Acetone	14	ug/Kg	UJ
T-2-23	Y0C12	12/05/2001	23	VOCs	N	Carbon Disulfide	1	ug/Kg	J
T-2-28	39293	12/05/2001	28	8015B	N	TPH as Diesel	5	mg/Kg	J

Table 8-2
Chemicals Detected in the Area of the Former Above-Ground Storage Tanks

Location	Sample ID	Sample Date	Depth (ft)	Method	QA/QC Type[1]	Analyte	Result[2]	Units	Flag[3]
T-2-28	Y0C13	12/05/2001	28	Pest/PCBs	N	Percent Solids	85	%	
T-2-28	Y0C13	12/05/2001	28	Pest/PCBs	N	Percent Solids	85	%	
T-2-28	Y0C13	12/05/2001	28	Pest/PCBs	N	Percent Solids	85	%	
T-2-28	Y0C13	12/05/2001	28	VOCs	N	Dichloromethane	12	ug/Kg	UJ
T-2-28	Y0C13	12/05/2001	28	VOCs	N	Acetone	14	ug/Kg	UJ
T-2-28	Y0C13	12/05/2001	28	VOCs	N	Carbon Disulfide	0.8	ug/Kg	J
T-2-28	Y0C13	12/05/2001	28	VOCs	N	Chloromethane	1	ug/Kg	J
T-2-28	Y0C13	12/05/2001	28	VOCs	N	1,1,2-Trichloro-1,2,2-trifluoroethane	2	ug/Kg	J
T-3-3	39294	12/05/2001	3	8015B	N	TPH as Diesel	9	mg/Kg	J
T-3-3	39294	12/05/2001	3	8015B	N	TPH as Motor Oil	20	mg/Kg	J
T-3-3	MY08S3	12/05/2001	3	Metals	N	ALUMINUM	14600	mg/Kg	
T-3-3	MY08S3	12/05/2001	3	Metals	N	ALUMINUM	19000	mg/Kg	
T-3-3	MY08S3	12/05/2001	3	Metals	N	ANTIMONY	0.86	mg/Kg	UJ
T-3-3	MY08S3	12/05/2001	3	Metals	N	ARSENIC	5.1	mg/Kg	
T-3-3	MY08S3	12/05/2001	3	Metals	N	BARIUM	179	mg/Kg	
T-3-3	MY08S3	12/05/2001	3	Metals	N	CALCIUM	2190	mg/Kg	
T-3-3	MY08S3	12/05/2001	3	Metals	N	CALCIUM	4630	mg/Kg	
T-3-3	MY08S3	12/05/2001	3	Metals	N	CHROMIUM	39.1	mg/Kg	
T-3-3	MY08S3	12/05/2001	3	Metals	N	COBALT	17.9	mg/Kg	
T-3-3	MY08S3	12/05/2001	3	Metals	N	COPPER	44.1	mg/Kg	
T-3-3	MY08S3	12/05/2001	3	Metals	N	IRON	37700	mg/Kg	
T-3-3	MY08S3	12/05/2001	3	Metals	N	LEAD	10.7	mg/Kg	
T-3-3	MY08S3	12/05/2001	3	Metals	N	MAGNESIUM	17600	mg/Kg	
T-3-3	MY08S3	12/05/2001	3	Metals	N	MAGNESIUM	24700	mg/Kg	
T-3-3	MY08S3	12/05/2001	3	Metals	N	MANGANESE	754	mg/Kg	J
T-3-3	MY08S3	12/05/2001	3	Metals	N	MERCURY	0.06	mg/Kg	J
T-3-3	MY08S3	12/05/2001	3	Metals	N	NICKEL	199	mg/Kg	
T-3-3	MY08S3	12/05/2001	3	Metals	N	POTASSIUM	1380	mg/Kg	J
T-3-3	MY08S3	12/05/2001	3	Metals	N	SODIUM	538	mg/Kg	J
T-3-3	MY08S3	12/05/2001	3	Metals	N	VANADIUM	52.2	mg/Kg	
T-3-3	MY08S3	12/05/2001	3	Metals	N	ZINC	81.8	mg/Kg	
T-3-3	Y0C14	12/05/2001	3	Pest/PCBs	N	Percent Solids	80	%	
T-3-3	Y0C14	12/05/2001	3	Pest/PCBs	N	Percent Solids	80	%	
T-3-3	Y0C14	12/05/2001	3	VOCs	N	Bromomethane	2	ug/Kg	UJ
T-3-3	Y0C14	12/05/2001	3	VOCs	N	Bromomethane	2	ug/Kg	UJ
T-3-3	Y0C14	12/05/2001	3	VOCs	N	Acetone	39	ug/Kg	UJ
T-3-3	Y0C14	12/05/2001	3	VOCs	N	Acetone	39	ug/Kg	UJ
T-3-3	Y0C14	12/05/2001	3	VOCs	N	Dichloromethane	9	ug/Kg	UJ
T-3-3	Y0C14	12/05/2001	3	VOCs	N	Dichloromethane	9	ug/Kg	UJ
T-3-3	Y0C14	12/05/2001	3	VOCs	N	1,2-Dichloropropane (DCP)	2	ug/Kg	J
T-3-3	Y0C14	12/05/2001	3	VOCs	N	1,2-Dichloropropane (DCP)	10	ug/Kg	J
T-3-3	Y0C14	12/05/2001	3	VOCs	N	2-Butanone	4	ug/Kg	J
T-3-3	Y0C14	12/05/2001	3	VOCs	N	2-Butanone	4	ug/Kg	J
T-3-3	Y0C14	12/05/2001	3	VOCs	N	Chloromethane	1	ug/Kg	J
T-3-3	Y0C14	12/05/2001	3	VOCs	N	Chloromethane	1	ug/Kg	J
T-3-8	39295	12/05/2001	8	8015B	N	TPH as Diesel	4	mg/Kg	J
T-3-8	39295	12/05/2001	8	8015B	N	TPH as Motor Oil	20	mg/Kg	UJ
T-3-8	MY08S4	12/05/2001	8	Metals	N	ALUMINUM	21900	mg/Kg	
T-3-8	MY08S4	12/05/2001	8	Metals	N	ANTIMONY	0.93	mg/Kg	UJ
T-3-8	MY08S4	12/05/2001	8	Metals	N	ANTIMONY	0.98	mg/Kg	UJ
T-3-8	MY08S4	12/05/2001	8	Metals	N	ARSENIC	3.9	mg/Kg	
T-3-8	MY08S4	12/05/2001	8	Metals	N	BARIUM	88.3	mg/Kg	
T-3-8	MY08S4	12/05/2001	8	Metals	N	CALCIUM	4660	mg/Kg	
T-3-8	MY08S4	12/05/2001	8	Metals	N	CHROMIUM	121	mg/Kg	
T-3-8	MY08S4	12/05/2001	8	Metals	N	CHROMIUM	77.4	mg/Kg	
T-3-8	MY08S4	12/05/2001	8	Metals	N	COBALT	20.1	mg/Kg	
T-3-8	MY08S4	12/05/2001	8	Metals	N	COPPER	32.5	mg/Kg	

Table 8-2
Chemicals Detected in the Area of the Former Above-Ground Storage Tanks

Location	Sample ID	Sample Date	Depth (ft)	Method	QA/QC Type[1]	Analyte	Result [2]	Units	Flag[3]
T-3-8	MY08S4	12/05/2001	8	Metals	N	IRON	31300	mg/Kg	
T-3-8	MY08S4	12/05/2001	8	Metals	N	LEAD	8.3	mg/Kg	
T-3-8	MY08S4	12/05/2001	8	Metals	N	MAGNESIUM	22600	mg/Kg	
T-3-8	MY08S4	12/05/2001	8	Metals	N	MANGANESE	465	mg/Kg	J
T-3-8	MY08S4	12/05/2001	8	Metals	N	MANGANESE	920	mg/Kg	J
T-3-8	MY08S4	12/05/2001	8	Metals	N	NICKEL	86.2	mg/Kg	
T-3-8	MY08S4	12/05/2001	8	Metals	N	POTASSIUM	1320	mg/Kg	J
T-3-8	MY08S4	12/05/2001	8	Metals	N	SODIUM	756	mg/Kg	J
T-3-8	MY08S4	12/05/2001	8	Metals	N	SODIUM	885	mg/Kg	J
T-3-8	MY08S4	12/05/2001	8	Metals	N	VANADIUM	53	mg/Kg	
T-3-8	MY08S4	12/05/2001	8	Metals	N	ZINC	73	mg/Kg	
T-3-8	Y0C15	12/05/2001	8	Pest/PCBs	N	Endrin ketone	4.3	ug/Kg	UJ
T-3-8	Y0C15	12/05/2001	8	Pest/PCBs	N	alpha-Chlordane	2.2	ug/Kg	UJ
T-3-8	Y0C15	12/05/2001	8	Pest/PCBs	N	4,4'-DDT	4.3	ug/Kg	UJ
T-3-8	Y0C15	12/05/2001	8	Pest/PCBs	N	Endosulfan II	4.3	ug/Kg	UJ
T-3-8	Y0C15	12/05/2001	8	Pest/PCBs	N	delta-BHC	2.2	ug/Kg	UJ
T-3-8	Y0C15	12/05/2001	8	Pest/PCBs	N	alpha-BHC	2.2	ug/Kg	UJ
T-3-8	Y0C15	12/05/2001	8	Pest/PCBs	N	Aldrin	2.2	ug/Kg	UJ
T-3-8	Y0C15	12/05/2001	8	Pest/PCBs	N	beta-BHC	2.2	ug/Kg	UJ
T-3-8	Y0C15	12/05/2001	8	Pest/PCBs	N	Dieldrin	4.3	ug/Kg	UJ
T-3-8	Y0C15	12/05/2001	8	Pest/PCBs	N	gamma-BHC (Lindane)	2.2	ug/Kg	UJ
T-3-8	Y0C15	12/05/2001	8	Pest/PCBs	N	Heptachlor epoxide	2.2	ug/Kg	UJ
T-3-8	Y0C15	12/05/2001	8	Pest/PCBs	N	Endosulfan sulfate	4.3	ug/Kg	UJ
T-3-8	Y0C15	12/05/2001	8	Pest/PCBs	N	Endrin	4.3	ug/Kg	UJ
T-3-8	Y0C15	12/05/2001	8	Pest/PCBs	N	gamma-Chlordane	2.2	ug/Kg	UJ
T-3-8	Y0C15	12/05/2001	8	Pest/PCBs	N	Heptachlor	2.2	ug/Kg	UJ
T-3-8	Y0C15	12/05/2001	8	Pest/PCBs	N	Endosulfan I	2.2	ug/Kg	UJ
T-3-8	Y0C15	12/05/2001	8	Pest/PCBs	N	4,4'-DDE	4.3	ug/Kg	UJ
T-3-8	Y0C15	12/05/2001	8	Pest/PCBs	N	Endrin aldehyde	4.3	ug/Kg	UJ
T-3-8	Y0C15	12/05/2001	8	Pest/PCBs	N	4,4'-DDD	4.3	ug/Kg	UJ
T-3-8	Y0C15	12/05/2001	8	Pest/PCBs	N	Methoxychlor	22	ug/Kg	UJ
T-3-8	Y0C15	12/05/2001	8	Pest/PCBs	N	Percent Solids	77	%	
T-3-8	Y0C15	12/05/2001	8	Pest/PCBs	N	Percent Solids	77	%	
T-3-8	Y0C15	12/05/2001	8	VOCs	N	Acetone	21	ug/Kg	UJ
T-3-8	Y0C15	12/05/2001	8	VOCs	N	Acetone	21	ug/Kg	UJ
T-3-8	Y0C15	12/05/2001	8	VOCs	N	Dichloromethane	7	ug/Kg	UJ
T-3-8	Y0C15	12/05/2001	8	VOCs	N	Dichloromethane	7	ug/Kg	UJ
T-3-8	Y0C15	12/05/2001	8	VOCs	N	1,2-Dichloropropane (DCP)	2	ug/Kg	J
T-3-8	Y0C15	12/05/2001	8	VOCs	N	1,2-Dichloropropane (DCP)	4	ug/Kg	J
T-3-8	Y0C15	12/05/2001	8	VOCs	N	Chloromethane	1	ug/Kg	J
T-3-13	39296	12/05/2001	13	8015B	N	TPH as Motor Oil	10	mg/Kg	J
T-3-13	39296	12/05/2001	13	8015B	N	TPH as Diesel	6	mg/Kg	J
T-3-13	MY08S5	12/05/2001	13	Metals	N	ALUMINUM	17500	mg/Kg	
T-3-13	MY08S5	12/05/2001	13	Metals	N	ANTIMONY	0.91	mg/Kg	UJ
T-3-13	MY08S5	12/05/2001	13	Metals	N	ARSENIC	7.5	mg/Kg	
T-3-13	MY08S5	12/05/2001	13	Metals	N	ARSENIC	6.2	mg/Kg	
T-3-13	MY08S5	12/05/2001	13	Metals	N	BARIUM	116	mg/Kg	
T-3-13	MY08S5	12/05/2001	13	Metals	N	CALCIUM	8390	mg/Kg	
T-3-13	MY08S5	12/05/2001	13	Metals	N	CHROMIUM	112	mg/Kg	
T-3-13	MY08S5	12/05/2001	13	Metals	N	COBALT	21.5	mg/Kg	
T-3-13	MY08S5	12/05/2001	13	Metals	N	COBALT	25.6	mg/Kg	
T-3-13	MY08S5	12/05/2001	13	Metals	N	COPPER	24.5	mg/Kg	
T-3-13	MY08S5	12/05/2001	13	Metals	N	IRON	24600	mg/Kg	
T-3-13	MY08S5	12/05/2001	13	Metals	N	LEAD	8.7	mg/Kg	
T-3-13	MY08S5	12/05/2001	13	Metals	N	MAGNESIUM	25100	mg/Kg	
T-3-13	MY08S5	12/05/2001	13	Metals	N	MANGANESE	1120	mg/Kg	J
T-3-13	MY08S5	12/05/2001	13	Metals	N	MERCURY	0.17	mg/Kg	

Table 8-2
Chemicals Detected in the Area of the Former Above-Ground Storage Tanks

Location	Sample ID	Sample Date	Depth (ft)	Method	QA/QC Type[1]	Analyte	Result[2]	Units	Flag[3]
T-3-13	MY08S5	12/05/2001	13	Metals	N	MERCURY	0.13	mg/Kg	
T-3-13	MY08S5	12/05/2001	13	Metals	N	NICKEL	78.7	mg/Kg	
T-3-13	MY08S5	12/05/2001	13	Metals	N	POTASSIUM	1460	mg/Kg	J
T-3-13	MY08S5	12/05/2001	13	Metals	N	SODIUM	1030	mg/Kg	J
T-3-13	MY08S5	12/05/2001	13	Metals	N	VANADIUM	35.2	mg/Kg	
T-3-13	MY08S5	12/05/2001	13	Metals	N	ZINC	61.9	mg/Kg	
T-3-13	Y0C16	12/05/2001	13	Pest/PCBs	N	Percent Solids	75	%	
T-3-13	Y0C16	12/05/2001	13	Pest/PCBs	N	Percent Solids	75	%	
T-3-13	Y0C16	12/05/2001	13	Pest/PCBs	N	Methoxychlor	3.3	ug/Kg	J
T-3-13	Y0C16	12/05/2001	13	Pest/PCBs	N	Endosulfan II	0.51	ug/Kg	J
T-3-13	Y0C16	12/05/2001	13	VOCs	N	Bromomethane	1	ug/Kg	UJ
T-3-13	Y0C16	12/05/2001	13	VOCs	N	Dichloromethane	9	ug/Kg	UJ
T-3-13	Y0C16	12/05/2001	13	VOCs	N	Dichloromethane	9	ug/Kg	UJ
T-3-13	Y0C16	12/05/2001	13	VOCs	N	Bromomethane	1	ug/Kg	UJ
T-3-13	Y0C16	12/05/2001	13	VOCs	N	Acetone	18	ug/Kg	UJ
T-3-13	Y0C16	12/05/2001	13	VOCs	N	Acetone	18	ug/Kg	UJ
T-3-13	Y0C16	12/05/2001	13	VOCs	N	1,2-Dichloropropane (DCP)	15	ug/Kg	
T-3-18	39297	12/05/2001	18	8015B	N	TPH as Motor Oil	20	mg/Kg	UJ
T-3-18	39297	12/05/2001	18	8015B	N	TPH as Diesel	6	mg/Kg	UJ
T-3-18	MY08S6	12/05/2001	18	Metals	N	ALUMINUM	14300	mg/Kg	
T-3-18	MY08S6	12/05/2001	18	Metals	N	ANTIMONY	0.89	mg/Kg	UJ
T-3-18	MY08S6	12/05/2001	18	Metals	N	ARSENIC	8.2	mg/Kg	
T-3-18	MY08S6	12/05/2001	18	Metals	N	BARIUM	225	mg/Kg	
T-3-18	MY08S6	12/05/2001	18	Metals	N	BARIUM	82.6	mg/Kg	
T-3-18	MY08S6	12/05/2001	18	Metals	N	CALCIUM	1560	mg/Kg	
T-3-18	MY08S6	12/05/2001	18	Metals	N	CHROMIUM	112	mg/Kg	
T-3-18	MY08S6	12/05/2001	18	Metals	N	COBALT	29.6	mg/Kg	
T-3-18	MY08S6	12/05/2001	18	Metals	N	COPPER	54.6	mg/Kg	
T-3-18	MY08S6	12/05/2001	18	Metals	N	COPPER	43.5	mg/Kg	
T-3-18	MY08S6	12/05/2001	18	Metals	N	IRON	18300	mg/Kg	
T-3-18	MY08S6	12/05/2001	18	Metals	N	LEAD	8.6	mg/Kg	
T-3-18	MY08S6	12/05/2001	18	Metals	N	MAGNESIUM	17000	mg/Kg	
T-3-18	MY08S6	12/05/2001	18	Metals	N	MANGANESE	410	mg/Kg	J
T-3-18	MY08S6	12/05/2001	18	Metals	N	MERCURY	0.18	mg/Kg	
T-3-18	MY08S6	12/05/2001	18	Metals	N	NICKEL	276	mg/Kg	
T-3-18	MY08S6	12/05/2001	18	Metals	N	NICKEL	177	mg/Kg	
T-3-18	MY08S6	12/05/2001	18	Metals	N	POTASSIUM	676	mg/Kg	J
T-3-18	MY08S6	12/05/2001	18	Metals	N	SODIUM	964	mg/Kg	J
T-3-18	MY08S6	12/05/2001	18	Metals	N	VANADIUM	68.9	mg/Kg	
T-3-18	MY08S6	12/05/2001	18	Metals	N	VANADIUM	56.3	mg/Kg	
T-3-18	MY08S6	12/05/2001	18	Metals	N	ZINC	40.8	mg/Kg	
T-3-18	Y0C17	12/05/2001	18	Pest/PCBs	N	Percent Solids	81	%	
T-3-18	Y0C17	12/05/2001	18	Pest/PCBs	N	Percent Solids	81	%	
T-3-18	Y0C17	12/05/2001	18	VOCs	N	Acetone	18	ug/Kg	UJ
T-3-18	Y0C17	12/05/2001	18	VOCs	N	Bromomethane	2	ug/Kg	UJ
T-3-18	Y0C17	12/05/2001	18	VOCs	N	Acetone	18	ug/Kg	UJ
T-3-18	Y0C17	12/05/2001	18	VOCs	N	Bromomethane	2	ug/Kg	UJ
T-3-18	Y0C17	12/05/2001	18	VOCs	N	Dichloromethane	7	ug/Kg	UJ
T-3-18	Y0C17	12/05/2001	18	VOCs	N	Dichloromethane	7	ug/Kg	UJ
T-3-18	Y0C17	12/05/2001	18	VOCs	N	Chloroethane	10	ug/Kg	UJ
T-3-18	Y0C17	12/05/2001	18	VOCs	N	Chloroethane	10	ug/Kg	UJ
T-3-18	Y0C17	12/05/2001	18	VOCs	N	2-Butanone	3	ug/Kg	J
T-3-18	Y0C17	12/05/2001	18	VOCs	N	1,2-Dichloropropane (DCP)	8	ug/Kg	J
T-3-18	Y0C17	12/05/2001	18	VOCs	N	1,2-Dichloropropane (DCP)	1	ug/Kg	J
T-3-18	Y0C17	12/05/2001	18	VOCs	N	2-Butanone	3	ug/Kg	J
T-3-18	Y0C17	12/05/2001	18	VOCs	N	Chloromethane	1	ug/Kg	J
T-3-18	Y0C17	12/05/2001	18	VOCs	N	Chloromethane	1	ug/Kg	J

Table 8-2
Chemicals Detected in the Area of the Former Above-Ground Storage Tanks

Location	Sample ID	Sample Date	Depth (ft)	Method	QA/QC Type[1]	Analyte	Result[2]	Units	Flag[3]
T-3-23	39298	12/05/2001	23	8015B	N	TPH as Diesel	4	mg/Kg	J
T-3-23	39298	12/05/2001	23	8015B	N	TPH as Motor Oil	20	mg/Kg	UJ
T-3-23	MY08S7	12/05/2001	23	Metals	N	ALUMINUM	13100	mg/Kg	
T-3-23	MY08S7	12/05/2001	23	Metals	N	ANTIMONY	0.89	mg/Kg	UJ
T-3-23	MY08S7	12/05/2001	23	Metals	N	ARSENIC	7	mg/Kg	
T-3-23	MY08S7	12/05/2001	23	Metals	N	BARIUM	341	mg/Kg	
T-3-23	MY08S7	12/05/2001	23	Metals	N	BERYLLIUM	0.41	mg/Kg	J
T-3-23	MY08S7	12/05/2001	23	Metals	N	CALCIUM	1060	mg/Kg	J
T-3-23	MY08S7	12/05/2001	23	Metals	N	CHROMIUM	76.7	mg/Kg	
T-3-23	MY08S7	12/05/2001	23	Metals	N	COBALT	23.8	mg/Kg	
T-3-23	MY08S7	12/05/2001	23	Metals	N	COPPER	59.3	mg/Kg	
T-3-23	MY08S7	12/05/2001	23	Metals	N	IRON	31400	mg/Kg	
T-3-23	MY08S7	12/05/2001	23	Metals	N	IRON	41600	mg/Kg	
T-3-23	MY08S7	12/05/2001	23	Metals	N	LEAD	9.3	mg/Kg	
T-3-23	MY08S7	12/05/2001	23	Metals	N	MAGNESIUM	7850	mg/Kg	
T-3-23	MY08S7	12/05/2001	23	Metals	N	MANGANESE	958	mg/Kg	J
T-3-23	MY08S7	12/05/2001	23	Metals	N	MERCURY	0.15	mg/Kg	
T-3-23	MY08S7	12/05/2001	23	Metals	N	NICKEL	247	mg/Kg	
T-3-23	MY08S7	12/05/2001	23	Metals	N	POTASSIUM	1370	mg/Kg	J
T-3-23	MY08S7	12/05/2001	23	Metals	N	POTASSIUM	935	mg/Kg	J
T-3-23	MY08S7	12/05/2001	23	Metals	N	SODIUM	599	mg/Kg	J
T-3-23	MY08S7	12/05/2001	23	Metals	N	VANADIUM	75.4	mg/Kg	
T-3-23	MY08S7	12/05/2001	23	Metals	N	ZINC	92.6	mg/Kg	
T-3-23	MY08S7	12/05/2001	23	Metals	N	ZINC	72	mg/Kg	
T-3-23	Y0C18	12/05/2001	23	Pest/PCBs	N	Percent Solids	81	%	
T-3-23	Y0C18	12/05/2001	23	Pest/PCBs	N	Percent Solids	81	%	
T-3-23	Y0C18	12/05/2001	23	Pest/PCBs	N	Dieldrin	0.68	ug/Kg	J
T-3-23	Y0C18	12/05/2001	23	VOCs	N	Chloroethane	11	ug/Kg	UJ
T-3-23	Y0C18	12/05/2001	23	VOCs	N	Dichloromethane	10	ug/Kg	UJ
T-3-23	Y0C18	12/05/2001	23	VOCs	N	Chloroethane	11	ug/Kg	UJ
T-3-23	Y0C18	12/05/2001	23	VOCs	N	Dichloromethane	10	ug/Kg	UJ
T-3-23	Y0C18	12/05/2001	23	VOCs	N	Acetone	17	ug/Kg	UJ
T-3-23	Y0C18	12/05/2001	23	VOCs	N	Acetone	17	ug/Kg	UJ
T-3-23	Y0C18	12/05/2001	23	VOCs	N	Carbon Disulfide	1	ug/Kg	J
T-3-23	Y0C18	12/05/2001	23	VOCs	N	Carbon Disulfide	1	ug/Kg	J
T-3-23	Y0C18	12/05/2001	23	VOCs	N	Chloromethane	2	ug/Kg	J
T-3-23	Y0C18	12/05/2001	23	VOCs	N	Chloromethane	2	ug/Kg	J
T-3-23	Y0C18	12/05/2001	23	VOCs	N	1,2-Dichloropropane (DCP)	3	ug/Kg	J
T-3-23	Y0C18	12/05/2001	23	VOCs	N	1,2-Dichloropropane (DCP)	2	ug/Kg	J
T-3-28	39299	12/05/2001	28	8015B	N	TPH as Motor Oil	10	mg/Kg	J
T-3-28	39299	12/05/2001	28	8015B	N	TPH as Diesel	5	mg/Kg	J
T-3-28	MY08S8	12/05/2001	28	Metals	N	ALUMINUM	8620	mg/Kg	
T-3-28	MY08S8	12/05/2001	28	Metals	N	ANTIMONY	0.85	mg/Kg	UJ
T-3-28	MY08S8	12/05/2001	28	Metals	N	ARSENIC	5.8	mg/Kg	
T-3-28	MY08S8	12/05/2001	28	Metals	N	BARIUM	135	mg/Kg	
T-3-28	MY08S8	12/05/2001	28	Metals	N	BERYLLIUM	0.7	mg/Kg	J
T-3-28	MY08S8	12/05/2001	28	Metals	N	CALCIUM	1110	mg/Kg	J
T-3-28	MY08S8	12/05/2001	28	Metals	N	CHROMIUM	47.8	mg/Kg	
T-3-28	MY08S8	12/05/2001	28	Metals	N	COBALT	24.8	mg/Kg	
T-3-28	MY08S8	12/05/2001	28	Metals	N	COPPER	47.8	mg/Kg	
T-3-28	MY08S8	12/05/2001	28	Metals	N	IRON	44500	mg/Kg	
T-3-28	MY08S8	12/05/2001	28	Metals	N	LEAD	7.2	mg/Kg	
T-3-28	MY08S8	12/05/2001	28	Metals	N	LEAD	12.4	mg/Kg	
T-3-28	MY08S8	12/05/2001	28	Metals	N	MAGNESIUM	6870	mg/Kg	
T-3-28	MY08S8	12/05/2001	28	Metals	N	MANGANESE	538	mg/Kg	J
T-3-28	MY08S8	12/05/2001	28	Metals	N	MERCURY	0.13	mg/Kg	
T-3-28	MY08S8	12/05/2001	28	Metals	N	NICKEL	226	mg/Kg	

Table 8-2
Chemicals Detected in the Area of the Former Above-Ground Storage Tanks

Location	Sample ID	Sample Date	Depth (ft)	Method	QA/QC Type[1]	Analyte	Result[2]	Units	Flag[3]
T-3-28	MY08S8	12/05/2001	28	Metals	N	POTASSIUM	1440	mg/Kg	J
T-3-28	MY08S8	12/05/2001	28	Metals	N	SELENIUM	1.3	mg/Kg	J
T-3-28	MY08S8	12/05/2001	28	Metals	N	SODIUM	588	mg/Kg	J
T-3-28	MY08S8	12/05/2001	28	Metals	N	VANADIUM	62.3	mg/Kg	
T-3-28	MY08S8	12/05/2001	28	Metals	N	ZINC	105	mg/Kg	
T-3-28	Y0C19	12/05/2001	28	Pest/PCBs	N	Percent Solids	85	%	
T-3-28	Y0C19	12/05/2001	28	Pest/PCBs	N	Percent Solids	85	%	
T-3-28	Y0C19	12/05/2001	28	VOCs	N	Dichloromethane	9	ug/Kg	UJ
T-3-28	Y0C19	12/05/2001	28	VOCs	N	Dichloromethane	9	ug/Kg	UJ
T-3-28	Y0C19	12/05/2001	28	VOCs	N	Chloroethane	10	ug/Kg	UJ
T-3-28	Y0C19	12/05/2001	28	VOCs	N	Chloroethane	10	ug/Kg	UJ
T-3-28	Y0C19	12/05/2001	28	VOCs	N	Bromomethane	1	ug/Kg	UJ
T-3-28	Y0C19	12/05/2001	28	VOCs	N	Acetone	17	ug/Kg	UJ
T-3-28	Y0C19	12/05/2001	28	VOCs	N	Acetone	17	ug/Kg	UJ
T-3-28	Y0C19	12/05/2001	28	VOCs	N	Bromomethane	1	ug/Kg	UJ
T-3-28	Y0C19	12/05/2001	28	VOCs	N	2-Butanone	3	ug/Kg	J
T-3-28	Y0C19	12/05/2001	28	VOCs	N	1,2-Dichloropropane (DCP)	1	ug/Kg	J
T-3-28	Y0C19	12/05/2001	28	VOCs	N	2-Butanone	3	ug/Kg	J
T-4-3	39300	12/06/2001	3	8015B	N	TPH as Motor Oil	20	mg/Kg	UJ
T-4-3	39300	12/06/2001	3	8015B	N	TPH as Diesel	6	mg/Kg	UJ
T-4-3	MY08S9	12/06/2001	3	Metals	N	ALUMINUM	17900	mg/Kg	
T-4-3	MY08S9	12/06/2001	3	Metals	N	ANTIMONY	0.88	mg/Kg	UJ
T-4-3	MY08S9	12/06/2001	3	Metals	N	ARSENIC	6.7	mg/Kg	
T-4-3	MY08S9	12/06/2001	3	Metals	N	BARIUM	240	mg/Kg	
T-4-3	MY08S9	12/06/2001	3	Metals	N	BERYLLIUM	0.49	mg/Kg	J
T-4-3	MY08S9	12/06/2001	3	Metals	N	CADMIUM	0.33	mg/Kg	J
T-4-3	MY08S9	12/06/2001	3	Metals	N	CALCIUM	4000	mg/Kg	
T-4-3	MY08S9	12/06/2001	3	Metals	N	CHROMIUM	110	mg/Kg	
T-4-3	MY08S9	12/06/2001	3	Metals	N	COBALT	26.1	mg/Kg	
T-4-3	MY08S9	12/06/2001	3	Metals	N	COPPER	52.1	mg/Kg	
T-4-3	MY08S9	12/06/2001	3	Metals	N	IRON	39000	mg/Kg	
T-4-3	MY08S9	12/06/2001	3	Metals	N	LEAD	9.3	mg/Kg	
T-4-3	MY08S9	12/06/2001	3	Metals	N	MAGNESIUM	20900	mg/Kg	
T-4-3	MY08S9	12/06/2001	3	Metals	N	MANGANESE	962	mg/Kg	
T-4-3	MY08S9	12/06/2001	3	Metals	N	MERCURY	0.22	mg/Kg	
T-4-3	MY08S9	12/06/2001	3	Metals	N	NICKEL	259	mg/Kg	
T-4-3	MY08S9	12/06/2001	3	Metals	N	POTASSIUM	1440	mg/Kg	J
T-4-3	MY08S9	12/06/2001	3	Metals	N	SELENIUM	1.5	mg/Kg	J
T-4-3	MY08S9	12/06/2001	3	Metals	N	SODIUM	642	mg/Kg	J
T-4-3	MY08S9	12/06/2001	3	Metals	N	VANADIUM	65.2	mg/Kg	
T-4-3	MY08S9	12/06/2001	3	Metals	N	ZINC	90.9	mg/Kg	
T-4-8	39301	12/06/2001	8	8015B	N	TPH as Motor Oil	10	mg/Kg	J
T-4-8	39301	12/06/2001	8	8015B	N	TPH as Diesel	5	mg/Kg	J
T-4-8	MY08T0	12/06/2001	8	Metals	N	ALUMINUM	18300	mg/Kg	
T-4-8	MY08T0	12/06/2001	8	Metals	N	ANTIMONY	0.93	mg/Kg	UJ
T-4-8	MY08T0	12/06/2001	8	Metals	N	ARSENIC	7.8	mg/Kg	
T-4-8	MY08T0	12/06/2001	8	Metals	N	BARIUM	144	mg/Kg	
T-4-8	MY08T0	12/06/2001	8	Metals	N	BERYLLIUM	0.57	mg/Kg	J
T-4-8	MY08T0	12/06/2001	8	Metals	N	CADMIUM	0.19	mg/Kg	J
T-4-8	MY08T0	12/06/2001	8	Metals	N	CALCIUM	3100	mg/Kg	
T-4-8	MY08T0	12/06/2001	8	Metals	N	CHROMIUM	104	mg/Kg	
T-4-8	MY08T0	12/06/2001	8	Metals	N	COBALT	23.2	mg/Kg	
T-4-8	MY08T0	12/06/2001	8	Metals	N	COPPER	58.7	mg/Kg	
T-4-8	MY08T0	12/06/2001	8	Metals	N	IRON	39300	mg/Kg	
T-4-8	MY08T0	12/06/2001	8	Metals	N	LEAD	8.9	mg/Kg	
T-4-8	MY08T0	12/06/2001	8	Metals	N	MAGNESIUM	20700	mg/Kg	
T-4-8	MY08T0	12/06/2001	8	Metals	N	MANGANESE	507	mg/Kg	

Table 8-2
Chemicals Detected in the Area of the Former Above-Ground Storage Tanks

Location	Sample ID	Sample Date	Depth (ft)	Method	QA/QC Type[1]	Analyte	Result[2]	Units	Flag[3]
T-4-8	MY08T0	12/06/2001	8	Metals	N	MERCURY	0.16	mg/Kg	
T-4-8	MY08T0	12/06/2001	8	Metals	N	NICKEL	224	mg/Kg	
T-4-8	MY08T0	12/06/2001	8	Metals	N	POTASSIUM	1190	mg/Kg	J
T-4-8	MY08T0	12/06/2001	8	Metals	N	SELENIUM	1.4	mg/Kg	J
T-4-8	MY08T0	12/06/2001	8	Metals	N	SODIUM	720	mg/Kg	J
T-4-8	MY08T0	12/06/2001	8	Metals	N	VANADIUM	61.2	mg/Kg	
T-4-8	MY08T0	12/06/2001	8	Metals	N	ZINC	89.6	mg/Kg	
T-4-13	39303	12/06/2001	13	8015B	FD	TPH as Motor Oil	10	mg/Kg	J
T-4-13	39302	12/06/2001	13	8015B	N	TPH as Diesel	4	mg/Kg	J
T-4-13	39303	12/06/2001	13	8015B	FD	TPH as Diesel	6	mg/Kg	J
T-4-13	39302	12/06/2001	13	8015B	N	TPH as Motor Oil	20	mg/Kg	UJ
T-4-13	MY08T1	12/06/2001	13	Metals	N	ALUMINUM	15400	mg/Kg	
T-4-13	MY08T2	12/06/2001	13	Metals	FD	ALUMINUM	15900	mg/Kg	
T-4-13	MY08T2	12/06/2001	13	Metals	FD	ANTIMONY	0.83	mg/Kg	UJ
T-4-13	MY08T1	12/06/2001	13	Metals	N	ANTIMONY	0.88	mg/Kg	UJ
T-4-13	MY08T2	12/06/2001	13	Metals	FD	ARSENIC	7.8	mg/Kg	
T-4-13	MY08T1	12/06/2001	13	Metals	N	ARSENIC	8.3	mg/Kg	
T-4-13	MY08T2	12/06/2001	13	Metals	FD	BARIUM	284	mg/Kg	
T-4-13	MY08T1	12/06/2001	13	Metals	N	BARIUM	153	mg/Kg	
T-4-13	MY08T1	12/06/2001	13	Metals	N	BERYLLIUM	0.47	mg/Kg	J
T-4-13	MY08T2	12/06/2001	13	Metals	FD	BERYLLIUM	0.45	mg/Kg	J
T-4-13	MY08T1	12/06/2001	13	Metals	N	CADMIUM	0.2	mg/Kg	J
T-4-13	MY08T1	12/06/2001	13	Metals	N	CALCIUM	2530	mg/Kg	
T-4-13	MY08T2	12/06/2001	13	Metals	FD	CALCIUM	17500	mg/Kg	
T-4-13	MY08T1	12/06/2001	13	Metals	N	CHROMIUM	113	mg/Kg	
T-4-13	MY08T2	12/06/2001	13	Metals	FD	CHROMIUM	108	mg/Kg	
T-4-13	MY08T1	12/06/2001	13	Metals	N	COBALT	24.9	mg/Kg	
T-4-13	MY08T2	12/06/2001	13	Metals	FD	COBALT	21	mg/Kg	
T-4-13	MY08T1	12/06/2001	13	Metals	N	COPPER	50.4	mg/Kg	
T-4-13	MY08T2	12/06/2001	13	Metals	FD	COPPER	45.7	mg/Kg	
T-4-13	MY08T1	12/06/2001	13	Metals	N	IRON	36000	mg/Kg	
T-4-13	MY08T2	12/06/2001	13	Metals	FD	IRON	35100	mg/Kg	
T-4-13	MY08T2	12/06/2001	13	Metals	FD	LEAD	8	mg/Kg	
T-4-13	MY08T1	12/06/2001	13	Metals	N	LEAD	8.6	mg/Kg	
T-4-13	MY08T2	12/06/2001	13	Metals	FD	MAGNESIUM	28000	mg/Kg	
T-4-13	MY08T1	12/06/2001	13	Metals	N	MAGNESIUM	25000	mg/Kg	
T-4-13	MY08T2	12/06/2001	13	Metals	FD	MANGANESE	603	mg/Kg	
T-4-13	MY08T1	12/06/2001	13	Metals	N	MANGANESE	1080	mg/Kg	
T-4-13	MY08T2	12/06/2001	13	Metals	FD	MERCURY	0.12	mg/Kg	
T-4-13	MY08T1	12/06/2001	13	Metals	N	MERCURY	0.15	mg/Kg	
T-4-13	MY08T2	12/06/2001	13	Metals	FD	NICKEL	237	mg/Kg	
T-4-13	MY08T1	12/06/2001	13	Metals	N	NICKEL	265	mg/Kg	
T-4-13	MY08T1	12/06/2001	13	Metals	N	POTASSIUM	902	mg/Kg	J
T-4-13	MY08T2	12/06/2001	13	Metals	FD	POTASSIUM	1120	mg/Kg	J
T-4-13	MY08T2	12/06/2001	13	Metals	FD	SELENIUM	1.4	mg/Kg	J
T-4-13	MY08T1	12/06/2001	13	Metals	N	SELENIUM	1.6	mg/Kg	J
T-4-13	MY08T2	12/06/2001	13	Metals	FD	SODIUM	851	mg/Kg	J
T-4-13	MY08T1	12/06/2001	13	Metals	N	SODIUM	756	mg/Kg	J
T-4-13	MY08T1	12/06/2001	13	Metals	N	VANADIUM	61.3	mg/Kg	
T-4-13	MY08T2	12/06/2001	13	Metals	FD	VANADIUM	60.4	mg/Kg	
T-4-13	MY08T2	12/06/2001	13	Metals	FD	ZINC	76.3	mg/Kg	
T-4-13	MY08T1	12/06/2001	13	Metals	N	ZINC	78.3	mg/Kg	
T-4-18	39304	12/06/2001	18	8015B	N	TPH as Motor Oil	20	mg/Kg	UJ
T-4-18	39304	12/06/2001	18	8015B	N	TPH as Diesel	6	mg/Kg	UJ
T-4-18	MY08T3	12/06/2001	18	Metals	N	ALUMINUM	14100	mg/Kg	
T-4-18	MY08T3	12/06/2001	18	Metals	N	ANTIMONY	0.85	mg/Kg	UJ
T-4-18	MY08T3	12/06/2001	18	Metals	N	ARSENIC	5.4	mg/Kg	

Table 8-2
Chemicals Detected in the Area of the Former Above-Ground Storage Tanks

Location	Sample ID	Sample Date	Depth (ft)	Method	QA/QC Type[1]	Analyte	Result[2]	Units	Flag[3]
T-4-18	MY08T3	12/06/2001	18	Metals	N	BARIUM	116	mg/Kg	
T-4-18	MY08T3	12/06/2001	18	Metals	N	BERYLLIUM	0.45	mg/Kg	J
T-4-18	MY08T3	12/06/2001	18	Metals	N	CALCIUM	2740	mg/Kg	
T-4-18	MY08T3	12/06/2001	18	Metals	N	CHROMIUM	77.6	mg/Kg	
T-4-18	MY08T3	12/06/2001	18	Metals	N	COBALT	21.2	mg/Kg	
T-4-18	MY08T3	12/06/2001	18	Metals	N	COPPER	42.7	mg/Kg	
T-4-18	MY08T3	12/06/2001	18	Metals	N	IRON	30100	mg/Kg	
T-4-18	MY08T3	12/06/2001	18	Metals	N	LEAD	7.5	mg/Kg	
T-4-18	MY08T3	12/06/2001	18	Metals	N	MAGNESIUM	16900	mg/Kg	
T-4-18	MY08T3	12/06/2001	18	Metals	N	MANGANESE	805	mg/Kg	
T-4-18	MY08T3	12/06/2001	18	Metals	N	MERCURY	0.08	mg/Kg	J
T-4-18	MY08T3	12/06/2001	18	Metals	N	NICKEL	190	mg/Kg	
T-4-18	MY08T3	12/06/2001	18	Metals	N	POTASSIUM	1070	mg/Kg	J
T-4-18	MY08T3	12/06/2001	18	Metals	N	SELENIUM	1.2	mg/Kg	J
T-4-18	MY08T3	12/06/2001	18	Metals	N	SODIUM	602	mg/Kg	J
T-4-18	MY08T3	12/06/2001	18	Metals	N	VANADIUM	49.4	mg/Kg	
T-4-18	MY08T3	12/06/2001	18	Metals	N	ZINC	72.4	mg/Kg	
T-4-23	39305	12/06/2001	23	8015B	N	TPH as Diesel	7	mg/Kg	J
T-4-23	39305	12/06/2001	23	8015B	N	TPH as Motor Oil	10	mg/Kg	J
T-4-23	MY08T4	12/06/2001	23	Metals	N	ALUMINUM	13700	mg/Kg	
T-4-23	MY08T4	12/06/2001	23	Metals	N	ANTIMONY	0.88	mg/Kg	UJ
T-4-23	MY08T4	12/06/2001	23	Metals	N	ARSENIC	6.4	mg/Kg	
T-4-23	MY08T4	12/06/2001	23	Metals	N	BARIUM	107	mg/Kg	
T-4-23	MY08T4	12/06/2001	23	Metals	N	BERYLLIUM	0.44	mg/Kg	J
T-4-23	MY08T4	12/06/2001	23	Metals	N	CADMIUM	0.18	mg/Kg	J
T-4-23	MY08T4	12/06/2001	23	Metals	N	CALCIUM	2020	mg/Kg	
T-4-23	MY08T4	12/06/2001	23	Metals	N	CHROMIUM	62.4	mg/Kg	
T-4-23	MY08T4	12/06/2001	23	Metals	N	COBALT	17.9	mg/Kg	
T-4-23	MY08T4	12/06/2001	23	Metals	N	COPPER	40.3	mg/Kg	
T-4-23	MY08T4	12/06/2001	23	Metals	N	IRON	28500	mg/Kg	
T-4-23	MY08T4	12/06/2001	23	Metals	N	LEAD	8.5	mg/Kg	
T-4-23	MY08T4	12/06/2001	23	Metals	N	MAGNESIUM	13100	mg/Kg	
T-4-23	MY08T4	12/06/2001	23	Metals	N	MANGANESE	562	mg/Kg	
T-4-23	MY08T4	12/06/2001	23	Metals	N	MERCURY	0.11	mg/Kg	J
T-4-23	MY08T4	12/06/2001	23	Metals	N	NICKEL	130	mg/Kg	
T-4-23	MY08T4	12/06/2001	23	Metals	N	POTASSIUM	954	mg/Kg	J
T-4-23	MY08T4	12/06/2001	23	Metals	N	SODIUM	631	mg/Kg	J
T-4-23	MY08T4	12/06/2001	23	Metals	N	VANADIUM	55.3	mg/Kg	
T-4-23	MY08T4	12/06/2001	23	Metals	N	ZINC	68	mg/Kg	
T-4-28	39306	12/06/2001	28	8015B	N	TPH as Diesel	5	mg/Kg	J
T-4-28	39306	12/06/2001	28	8015B	N	TPH-Gasoline	4	mg/Kg	J
T-4-28	39306	12/06/2001	28	8015B	N	TPH as Motor Oil	20	mg/Kg	UJ
T-4-28	MY08T5	12/06/2001	28	Metals	N	ALUMINUM	11300	mg/Kg	
T-4-28	MY08T5	12/06/2001	28	Metals	N	ANTIMONY	0.84	mg/Kg	UJ
T-4-28	MY08T5	12/06/2001	28	Metals	N	ARSENIC	6.2	mg/Kg	
T-4-28	MY08T5	12/06/2001	28	Metals	N	BARIUM	90.4	mg/Kg	
T-4-28	MY08T5	12/06/2001	28	Metals	N	CALCIUM	1790	mg/Kg	
T-4-28	MY08T5	12/06/2001	28	Metals	N	CHROMIUM	49.4	mg/Kg	
T-4-28	MY08T5	12/06/2001	28	Metals	N	COBALT	27.2	mg/Kg	
T-4-28	MY08T5	12/06/2001	28	Metals	N	COPPER	32.5	mg/Kg	
T-4-28	MY08T5	12/06/2001	28	Metals	N	IRON	23300	mg/Kg	
T-4-28	MY08T5	12/06/2001	28	Metals	N	LEAD	9.9	mg/Kg	
T-4-28	MY08T5	12/06/2001	28	Metals	N	MAGNESIUM	8550	mg/Kg	
T-4-28	MY08T5	12/06/2001	28	Metals	N	MANGANESE	974	mg/Kg	
T-4-28	MY08T5	12/06/2001	28	Metals	N	MERCURY	0.07	mg/Kg	J
T-4-28	MY08T5	12/06/2001	28	Metals	N	NICKEL	104	mg/Kg	
T-4-28	MY08T5	12/06/2001	28	Metals	N	POTASSIUM	787	mg/Kg	J

Table 8-2
Chemicals Detected in the Area of the Former Above-Ground Storage Tanks

Location	Sample ID	Sample Date	Depth (ft)	Method	QA/QC Type[1]	Analyte	Result[2]	Units	Flag[3]
T-4-28	MY08T5	12/06/2001	28	Metals	N	SELENIUM	1.1	mg/Kg	J
T-4-28	MY08T5	12/06/2001	28	Metals	N	SODIUM	564	mg/Kg	J
T-4-28	MY08T5	12/06/2001	28	Metals	N	VANADIUM	46.3	mg/Kg	
T-4-28	MY08T5	12/06/2001	28	Metals	N	ZINC	52.6	mg/Kg	
T-4-28	MY08T5	12/06/2001	28	Metals	N	BERYLLIUM	0.39	mg/Kg	J
T-4A-3	39307	12/06/2001	3	8015B	N	TPH as Diesel	8	mg/Kg	J
T-4A-3	39307	12/06/2001	3	8015B	N	TPH as Motor Oil	10	mg/Kg	J
T-4A-3	MY08T6	12/06/2001	3	Metals	N	ALUMINUM	15500	mg/Kg	
T-4A-3	MY08T6	12/06/2001	3	Metals	N	ANTIMONY	0.95	mg/Kg	J
T-4A-3	MY08T6	12/06/2001	3	Metals	N	ARSENIC	37.7	mg/Kg	
T-4A-3	MY08T6	12/06/2001	3	Metals	N	BARIUM	236	mg/Kg	
T-4A-3	MY08T6	12/06/2001	3	Metals	N	BERYLLIUM	0.52	mg/Kg	J
T-4A-3	MY08T6	12/06/2001	3	Metals	N	CADMIUM	0.71	mg/Kg	J
T-4A-3	MY08T6	12/06/2001	3	Metals	N	CALCIUM	4070	mg/Kg	
T-4A-3	MY08T6	12/06/2001	3	Metals	N	CHROMIUM	110	mg/Kg	
T-4A-3	MY08T6	12/06/2001	3	Metals	N	COBALT	24.2	mg/Kg	
T-4A-3	MY08T6	12/06/2001	3	Metals	N	COPPER	85.1	mg/Kg	
T-4A-3	MY08T6	12/06/2001	3	Metals	N	IRON	34400	mg/Kg	
T-4A-3	MY08T6	12/06/2001	3	Metals	N	LEAD	9.1	mg/Kg	
T-4A-3	MY08T6	12/06/2001	3	Metals	N	MAGNESIUM	24900	mg/Kg	
T-4A-3	MY08T6	12/06/2001	3	Metals	N	MANGANESE	557	mg/Kg	
T-4A-3	MY08T6	12/06/2001	3	Metals	N	MERCURY	0.14	mg/Kg	
T-4A-3	MY08T6	12/06/2001	3	Metals	N	NICKEL	197	mg/Kg	
T-4A-3	MY08T6	12/06/2001	3	Metals	N	POTASSIUM	2470	mg/Kg	J
T-4A-3	MY08T6	12/06/2001	3	Metals	N	SELENIUM	2.3	mg/Kg	J
T-4A-3	MY08T6	12/06/2001	3	Metals	N	SODIUM	447	mg/Kg	J
T-4A-3	MY08T6	12/06/2001	3	Metals	N	VANADIUM	63	mg/Kg	
T-4A-3	MY08T6	12/06/2001	3	Metals	N	ZINC	112	mg/Kg	
T-4A-8	39308	12/06/2001	8	8015B	N	TPH as Diesel	7	mg/Kg	J
T-4A-8	MY08T7	12/06/2001	8	Metals	N	ALUMINUM	21100	mg/Kg	
T-4A-8	MY08T7	12/06/2001	8	Metals	N	ANTIMONY	0.93	mg/Kg	UJ
T-4A-8	MY08T7	12/06/2001	8	Metals	N	ARSENIC	8.8	mg/Kg	
T-4A-8	MY08T7	12/06/2001	8	Metals	N	BARIUM	162	mg/Kg	
T-4A-8	MY08T7	12/06/2001	8	Metals	N	BERYLLIUM	0.61	mg/Kg	J
T-4A-8	MY08T7	12/06/2001	8	Metals	N	CALCIUM	2350	mg/Kg	
T-4A-8	MY08T7	12/06/2001	8	Metals	N	CHROMIUM	116	mg/Kg	
T-4A-8	MY08T7	12/06/2001	8	Metals	N	COBALT	25.8	mg/Kg	
T-4A-8	MY08T7	12/06/2001	8	Metals	N	COPPER	59.4	mg/Kg	
T-4A-8	MY08T7	12/06/2001	8	Metals	N	IRON	43800	mg/Kg	
T-4A-8	MY08T7	12/06/2001	8	Metals	N	LEAD	9.7	mg/Kg	
T-4A-8	MY08T7	12/06/2001	8	Metals	N	MAGNESIUM	20200	mg/Kg	
T-4A-8	MY08T7	12/06/2001	8	Metals	N	MANGANESE	458	mg/Kg	
T-4A-8	MY08T7	12/06/2001	8	Metals	N	MERCURY	0.17	mg/Kg	
T-4A-8	MY08T7	12/06/2001	8	Metals	N	NICKEL	259	mg/Kg	
T-4A-8	MY08T7	12/06/2001	8	Metals	N	POTASSIUM	2250	mg/Kg	J
T-4A-8	MY08T7	12/06/2001	8	Metals	N	SELENIUM	1.5	mg/Kg	J
T-4A-8	MY08T7	12/06/2001	8	Metals	N	SODIUM	523	mg/Kg	J
T-4A-8	MY08T7	12/06/2001	8	Metals	N	VANADIUM	74.1	mg/Kg	
T-4A-8	MY08T7	12/06/2001	8	Metals	N	ZINC	99.7	mg/Kg	
T-4A-18	39310	12/06/2001	18	8015B	N	TPH as Diesel	6	mg/Kg	J
T-4A-18	39310	12/06/2001	18	8015B	N	TPH as Motor Oil	10	mg/Kg	J
T-4A-18	39310	12/06/2001	18	8015B	N	TPH-Gasoline	8	mg/Kg	
T-4A-18	MY08T9	12/06/2001	18	Metals	N	ALUMINUM	16900	mg/Kg	UJ
T-4A-18	MY08T9	12/06/2001	18	Metals	N	ANTIMONY	0.87	mg/Kg	
T-4A-18	MY08T9	12/06/2001	18	Metals	N	ARSENIC	8	mg/Kg	
T-4A-18	MY08T9	12/06/2001	18	Metals	N	BARIUM	171	mg/Kg	J
T-4A-18	MY08T9	12/06/2001	18	Metals	N	BERYLLIUM	0.52	mg/Kg	

Table 8-2
Chemicals Detected in the Area of the Former Above-Ground Storage Tanks

Location	Sample ID	Sample Date	Depth (ft)	Method	QA/QC Type[1]	Analyte	Result[2]	Units	Flag[3]
T-4A-18	MY08T9	12/06/2001	18	Metals	N	CALCIUM	2240	mg/Kg	
T-4A-18	MY08T9	12/06/2001	18	Metals	N	CHROMIUM	89.1	mg/Kg	
T-4A-18	MY08T9	12/06/2001	18	Metals	N	COBALT	22.8	mg/Kg	
T-4A-18	MY08T9	12/06/2001	18	Metals	N	COPPER	50.1	mg/Kg	
T-4A-18	MY08T9	12/06/2001	18	Metals	N	IRON	35800	mg/Kg	
T-4A-18	MY08T9	12/06/2001	18	Metals	N	LEAD	8.3	mg/Kg	
T-4A-18	MY08T9	12/06/2001	18	Metals	N	MAGNESIUM	17500	mg/Kg	
T-4A-18	MY08T9	12/06/2001	18	Metals	N	MANGANESE	913	mg/Kg	
T-4A-18	MY08T9	12/06/2001	18	Metals	N	MERCURY	0.15	mg/Kg	
T-4A-18	MY08T9	12/06/2001	18	Metals	N	NICKEL	204	mg/Kg	J
T-4A-18	MY08T9	12/06/2001	18	Metals	N	POTASSIUM	1570	mg/Kg	J
T-4A-18	MY08T9	12/06/2001	18	Metals	N	SELENIUM	1.6	mg/Kg	J
T-4A-18	MY08T9	12/06/2001	18	Metals	N	SODIUM	624	mg/Kg	
T-4A-18	MY08T9	12/06/2001	18	Metals	N	VANADIUM	65.8	mg/Kg	
T-4A-18	MY08T9	12/06/2001	18	Metals	N	ZINC	83.9	mg/Kg	
T-4A-23	39311	12/06/2001	23	8015B	N	TPH as Motor Oil	20	mg/Kg	UJ
T-4A-23	39311	12/06/2001	23	8015B	N	TPH as Diesel	6	mg/Kg	UJ
T-4A-23	MY08W0	12/06/2001	23	Metals	N	ALUMINUM	11000	mg/Kg	UJ
T-4A-23	MY08W0	12/06/2001	23	Metals	N	ANTIMONY	0.87	mg/Kg	
T-4A-23	MY08W0	12/06/2001	23	Metals	N	ARSENIC	3.9	mg/Kg	
T-4A-23	MY08W0	12/06/2001	23	Metals	N	BARIUM	88.4	mg/Kg	J
T-4A-23	MY08W0	12/06/2001	23	Metals	N	BERYLLIUM	0.47	mg/Kg	
T-4A-23	MY08W0	12/06/2001	23	Metals	N	CALCIUM	1240	mg/Kg	
T-4A-23	MY08W0	12/06/2001	23	Metals	N	CHROMIUM	43	mg/Kg	
T-4A-23	MY08W0	12/06/2001	23	Metals	N	COBALT	19.2	mg/Kg	
T-4A-23	MY08W0	12/06/2001	23	Metals	N	COPPER	26.5	mg/Kg	
T-4A-23	MY08W0	12/06/2001	23	Metals	N	IRON	20600	mg/Kg	
T-4A-23	MY08W0	12/06/2001	23	Metals	N	LEAD	7.6	mg/Kg	
T-4A-23	MY08W0	12/06/2001	23	Metals	N	MAGNESIUM	7990	mg/Kg	
T-4A-23	MY08W0	12/06/2001	23	Metals	N	MANGANESE	478	mg/Kg	
T-4A-23	MY08W0	12/06/2001	23	Metals	N	NICKEL	73.2	mg/Kg	J
T-4A-23	MY08W0	12/06/2001	23	Metals	N	POTASSIUM	838	mg/Kg	J
T-4A-23	MY08W0	12/06/2001	23	Metals	N	SODIUM	580	mg/Kg	
T-4A-23	MY08W0	12/06/2001	23	Metals	N	VANADIUM	38.1	mg/Kg	
T-4A-23	MY08W0	12/06/2001	23	Metals	N	ZINC	49.8	mg/Kg	
T-4A-28	39312	12/06/2001	28	8015B	N	TPH as Diesel	8	mg/Kg	J
T-4A-28	39312	12/06/2001	28	8015B	N	TPH as Motor Oil	10	mg/Kg	J
T-4A-28	MY08W1	12/06/2001	28	Metals	N	ALUMINUM	17800	mg/Kg	UJ
T-4A-28	MY08W1	12/06/2001	28	Metals	N	ANTIMONY	0.94	mg/Kg	
T-4A-28	MY08W1	12/06/2001	28	Metals	N	ARSENIC	9.5	mg/Kg	
T-4A-28	MY08W1	12/06/2001	28	Metals	N	BARIUM	249	mg/Kg	J
T-4A-28	MY08W1	12/06/2001	28	Metals	N	BERYLLIUM	0.53	mg/Kg	J
T-4A-28	MY08W1	12/06/2001	28	Metals	N	CADMIUM	0.53	mg/Kg	
T-4A-28	MY08W1	12/06/2001	28	Metals	N	CALCIUM	10000	mg/Kg	
T-4A-28	MY08W1	12/06/2001	28	Metals	N	CHROMIUM	112	mg/Kg	
T-4A-28	MY08W1	12/06/2001	28	Metals	N	COBALT	23.7	mg/Kg	
T-4A-28	MY08W1	12/06/2001	28	Metals	N	COPPER	48.7	mg/Kg	
T-4A-28	MY08W1	12/06/2001	28	Metals	N	IRON	38200	mg/Kg	
T-4A-28	MY08W1	12/06/2001	28	Metals	N	LEAD	9.2	mg/Kg	
T-4A-28	MY08W1	12/06/2001	28	Metals	N	MAGNESIUM	22100	mg/Kg	
T-4A-28	MY08W1	12/06/2001	28	Metals	N	MANGANESE	735	mg/Kg	
T-4A-28	MY08W1	12/06/2001	28	Metals	N	MERCURY	0.14	mg/Kg	
T-4A-28	MY08W1	12/06/2001	28	Metals	N	NICKEL	230	mg/Kg	J
T-4A-28	MY08W1	12/06/2001	28	Metals	N	POTASSIUM	2050	mg/Kg	J
T-4A-28	MY08W1	12/06/2001	28	Metals	N	SODIUM	621	mg/Kg	
T-4A-28	MY08W1	12/06/2001	28	Metals	N	VANADIUM	66.8	mg/Kg	
T-4A-28	MY08W1	12/06/2001	28	Metals	N	ZINC	105	mg/Kg	

Table 8-2
Chemicals Detected in the Area of the Former Above-Ground Storage Tanks

Location	Sample ID	Sample Date	Depth (ft)	Method	QA/QC Type[1]	Analyte	Result[2]	Units	Flag[3]
T-5-3	39313	12/06/2001	3	8015B	N	TPH as Motor Oil	200	mg/Kg	J
T-5-3	39313	12/06/2001	3	8015B	N	TPH-Gasoline	29	mg/Kg	J
T-5-3	39313	12/06/2001	3	8015B	N	TPH as Diesel	160	mg/Kg	UJ
T-5-3	MY08W2	12/06/2001	3	Metals	N	ALUMINUM	16100	mg/Kg	
T-5-3	MY08W2	12/06/2001	3	Metals	N	ANTIMONY	0.86	mg/Kg	
T-5-3	MY08W2	12/06/2001	3	Metals	N	ARSENIC	6.8	mg/Kg	J
T-5-3	MY08W2	12/06/2001	3	Metals	N	BARIUM	196	mg/Kg	J
T-5-3	MY08W2	12/06/2001	3	Metals	N	BERYLLIUM	0.43	mg/Kg	
T-5-3	MY08W2	12/06/2001	3	Metals	N	CADMIUM	0.11	mg/Kg	
T-5-3	MY08W2	12/06/2001	3	Metals	N	CALCIUM	3730	mg/Kg	
T-5-3	MY08W2	12/06/2001	3	Metals	N	CHROMIUM	103	mg/Kg	
T-5-3	MY08W2	12/06/2001	3	Metals	N	COBALT	24.2	mg/Kg	
T-5-3	MY08W2	12/06/2001	3	Metals	N	COPPER	45.6	mg/Kg	
T-5-3	MY08W2	12/06/2001	3	Metals	N	IRON	35100	mg/Kg	
T-5-3	MY08W2	12/06/2001	3	Metals	N	LEAD	8.5	mg/Kg	
T-5-3	MY08W2	12/06/2001	3	Metals	N	MAGNESIUM	19400	mg/Kg	
T-5-3	MY08W2	12/06/2001	3	Metals	N	MANGANESE	757	mg/Kg	
T-5-3	MY08W2	12/06/2001	3	Metals	N	MERCURY	0.12	mg/Kg	J
T-5-3	MY08W2	12/06/2001	3	Metals	N	NICKEL	235	mg/Kg	J
T-5-3	MY08W2	12/06/2001	3	Metals	N	POTASSIUM	2240	mg/Kg	J
T-5-3	MY08W2	12/06/2001	3	Metals	N	SELENIUM	1.6	mg/Kg	
T-5-3	MY08W2	12/06/2001	3	Metals	N	SODIUM	576	mg/Kg	
T-5-3	MY08W2	12/06/2001	3	Metals	N	VANADIUM	60	mg/Kg	
T-5-3	MY08W2	12/06/2001	3	Metals	N	ZINC	82.2	mg/Kg	
T-5-8	39315	12/06/2001	8	8015B	N	TPH as Motor Oil	200	mg/Kg	J
T-5-8	39315	12/06/2001	8	8015B	N	TPH-Gasoline	34	mg/Kg	J
T-5-8	39314	12/06/2001	8	8015B	N	TPH as Motor Oil	4000	mg/Kg	J
T-5-8	39314	12/06/2001	8	8015B	N	TPH-Gasoline	20	mg/Kg	J
T-5-8	39314	12/06/2001	8	8015B	N	TPH as Diesel	5800	mg/Kg	UJ
T-5-8	39315	12/06/2001	8	8015B	N	TPH as Diesel	180	mg/Kg	UJ
T-5-8	MY08W4	12/06/2001	8	Metals	N	ALUMINUM	19800	mg/Kg	
T-5-8	MY08W3	12/06/2001	8	Metals	N	ALUMINUM	19700	mg/Kg	
T-5-8	MY08W4	12/06/2001	8	Metals	N	ANTIMONY	0.93	mg/Kg	
T-5-8	MY08W3	12/06/2001	8	Metals	N	ANTIMONY	0.94	mg/Kg	
T-5-8	MY08W3	12/06/2001	8	Metals	N	ARSENIC	4.9	mg/Kg	J
T-5-8	MY08W4	12/06/2001	8	Metals	N	ARSENIC	7.1	mg/Kg	J
T-5-8	MY08W4	12/06/2001	8	Metals	N	BARIUM	206	mg/Kg	
T-5-8	MY08W3	12/06/2001	8	Metals	N	BARIUM	211	mg/Kg	
T-5-8	MY08W4	12/06/2001	8	Metals	N	BERYLLIUM	0.54	mg/Kg	
T-5-8	MY08W3	12/06/2001	8	Metals	N	BERYLLIUM	0.54	mg/Kg	
T-5-8	MY08W3	12/06/2001	8	Metals	N	CALCIUM	3070	mg/Kg	
T-5-8	MY08W4	12/06/2001	8	Metals	N	CALCIUM	4170	mg/Kg	
T-5-8	MY08W3	12/06/2001	8	Metals	N	CHROMIUM	105	mg/Kg	
T-5-8	MY08W4	12/06/2001	8	Metals	N	CHROMIUM	101	mg/Kg	
T-5-8	MY08W3	12/06/2001	8	Metals	N	COBALT	28.3	mg/Kg	
T-5-8	MY08W4	12/06/2001	8	Metals	N	COBALT	27.8	mg/Kg	
T-5-8	MY08W4	12/06/2001	8	Metals	N	COPPER	52.4	mg/Kg	
T-5-8	MY08W3	12/06/2001	8	Metals	N	COPPER	54.3	mg/Kg	
T-5-8	MY08W4	12/06/2001	8	Metals	N	IRON	39000	mg/Kg	
T-5-8	MY08W3	12/06/2001	8	Metals	N	IRON	37100	mg/Kg	
T-5-8	MY08W4	12/06/2001	8	Metals	N	LEAD	8.7	mg/Kg	
T-5-8	MY08W3	12/06/2001	8	Metals	N	LEAD	9.3	mg/Kg	
T-5-8	MY08W3	12/06/2001	8	Metals	N	MAGNESIUM	21600	mg/Kg	J
T-5-8	MY08W4	12/06/2001	8	Metals	N	MAGNESIUM	20900	mg/Kg	J
T-5-8	MY08W4	12/06/2001	8	Metals	N	MANGANESE	1220	mg/Kg	
T-5-8	MY08W3	12/06/2001	8	Metals	N	MANGANESE	476	mg/Kg	
T-5-8	MY08W4	12/06/2001	8	Metals	N	MERCURY	0.11	mg/Kg	J

Table 8-2
Chemicals Detected in the Area of the Former Above-Ground Storage Tanks

Location	Sample ID	Sample Date	Depth (ft)	Method	QA/QC Type[1]	Analyte	Result[2]	Units	Flag[3]
T-5-8	MY08W3	12/06/2001	8	Metals	N	MERCURY	0.12	mg/Kg	J
T-5-8	MY08W4	12/06/2001	8	Metals	N	NICKEL	230	mg/Kg	J
T-5-8	MY08W3	12/06/2001	8	Metals	N	NICKEL	235	mg/Kg	J
T-5-8	MY08W3	12/06/2001	8	Metals	N	POTASSIUM	1390	mg/Kg	J
T-5-8	MY08W4	12/06/2001	8	Metals	N	POTASSIUM	1450	mg/Kg	
T-5-8	MY08W4	12/06/2001	8	Metals	N	SELENIUM	1.3	mg/Kg	
T-5-8	MY08W4	12/06/2001	8	Metals	N	SODIUM	976	mg/Kg	
T-5-8	MY08W3	12/06/2001	8	Metals	N	SODIUM	879	mg/Kg	
T-5-8	MY08W3	12/06/2001	8	Metals	N	VANADIUM	71.3	mg/Kg	
T-5-8	MY08W4	12/06/2001	8	Metals	N	VANADIUM	69.2	mg/Kg	UJ
T-5-8	MY08W3	12/06/2001	8	Metals	N	ZINC	111	mg/Kg	
T-5-8	MY08W4	12/06/2001	8	Metals	N	ZINC	88.1	mg/Kg	
T-5-13	39316	12/06/2001	13	8015B	N	TPH as Diesel	140	mg/Kg	J
T-5-13	39316	12/06/2001	13	8015B	N	TPH as Motor Oil	100	mg/Kg	J
T-5-13	39316	12/06/2001	13	8015B	N	TPH-Gasoline	57	mg/Kg	J
T-5-13	MY08W5	12/06/2001	13	Metals	N	ALUMINUM	20400	mg/Kg	J
T-5-13	MY08W5	12/06/2001	13	Metals	N	ANTIMONY	0.91	mg/Kg	J
T-5-13	MY08W5	12/06/2001	13	Metals	N	ARSENIC	8.7	mg/Kg	
T-5-13	MY08W5	12/06/2001	13	Metals	N	BARIUM	230	mg/Kg	
T-5-13	MY08W5	12/06/2001	13	Metals	N	BERYLLIUM	0.54	mg/Kg	
T-5-13	MY08W5	12/06/2001	13	Metals	N	CADMIUM	0.13	mg/Kg	
T-5-13	MY08W5	12/06/2001	13	Metals	N	CALCIUM	3180	mg/Kg	
T-5-13	MY08W5	12/06/2001	13	Metals	N	CHROMIUM	106	mg/Kg	
T-5-13	MY08W5	12/06/2001	13	Metals	N	COBALT	26.6	mg/Kg	
T-5-13	MY08W5	12/06/2001	13	Metals	N	COPPER	54.6	mg/Kg	
T-5-13	MY08W5	12/06/2001	13	Metals	N	IRON	43000	mg/Kg	
T-5-13	MY08W5	12/06/2001	13	Metals	N	LEAD	9.5	mg/Kg	
T-5-13	MY08W5	12/06/2001	13	Metals	N	MAGNESIUM	21300	mg/Kg	J
T-5-13	MY08W5	12/06/2001	13	Metals	N	MANGANESE	1280	mg/Kg	J
T-5-13	MY08W5	12/06/2001	13	Metals	N	MERCURY	0.13	mg/Kg	J
T-5-13	MY08W5	12/06/2001	13	Metals	N	NICKEL	238	mg/Kg	
T-5-13	MY08W5	12/06/2001	13	Metals	N	POTASSIUM	1530	mg/Kg	
T-5-13	MY08W5	12/06/2001	13	Metals	N	SELENIUM	1.5	mg/Kg	
T-5-13	MY08W5	12/06/2001	13	Metals	N	SODIUM	1010	mg/Kg	UJ
T-5-13	MY08W5	12/06/2001	13	Metals	N	VANADIUM	71.9	mg/Kg	
T-5-13	MY08W5	12/06/2001	13	Metals	N	ZINC	91.2	mg/Kg	
T-5-18	39317	12/06/2001	18	8015B	N	TPH as Motor Oil	3000	mg/Kg	J
T-5-18	39317	12/06/2001	18	8015B	N	TPH-Gasoline	7	mg/Kg	J
T-5-18	39317	12/06/2001	18	8015B	N	TPH as Diesel	3900	mg/Kg	J
T-5-18	MY08W6	12/06/2001	18	Metals	N	ALUMINUM	16400	mg/Kg	
T-5-18	MY08W6	12/06/2001	18	Metals	N	ANTIMONY	0.85	mg/Kg	
T-5-18	MY08W6	12/06/2001	18	Metals	N	ARSENIC	8.2	mg/Kg	
T-5-18	MY08W6	12/06/2001	18	Metals	N	BARIUM	179	mg/Kg	
T-5-18	MY08W6	12/06/2001	18	Metals	N	BERYLLIUM	0.45	mg/Kg	
T-5-18	MY08W6	12/06/2001	18	Metals	N	CALCIUM	5660	mg/Kg	
T-5-18	MY08W6	12/06/2001	18	Metals	N	CHROMIUM	84.7	mg/Kg	
T-5-18	MY08W6	12/06/2001	18	Metals	N	COBALT	27.3	mg/Kg	
T-5-18	MY08W6	12/06/2001	18	Metals	N	COPPER	49.1	mg/Kg	J
T-5-18	MY08W6	12/06/2001	18	Metals	N	IRON	34200	mg/Kg	
T-5-18	MY08W6	12/06/2001	18	Metals	N	LEAD	7.4	mg/Kg	J
T-5-18	MY08W6	12/06/2001	18	Metals	N	MAGNESIUM	18700	mg/Kg	J
T-5-18	MY08W6	12/06/2001	18	Metals	N	MANGANESE	829	mg/Kg	J
T-5-18	MY08W6	12/06/2001	18	Metals	N	MERCURY	0.09	mg/Kg	
T-5-18	MY08W6	12/06/2001	18	Metals	N	NICKEL	203	mg/Kg	
T-5-18	MY08W6	12/06/2001	18	Metals	N	POTASSIUM	1230	mg/Kg	
T-5-18	MY08W6	12/06/2001	18	Metals	N	SELENIUM	1.1	mg/Kg	UJ
T-5-18	MY08W6	12/06/2001	18	Metals	N	SODIUM	709	mg/Kg	J

Table 8-2
Chemicals Detected in the Area of the Former Above-Ground Storage Tanks

Location	Sample ID	Sample Date	Depth (ft)	Method	QA/QC Type[1]	Analyte	Result[2]	Units	Flag[3]
T-5-18	MY08W6	12/06/2001	18	Metals	N	VANADIUM	63.7	mg/Kg	
T-5-18	MY08W6	12/06/2001	18	Metals	N	ZINC	79.3	mg/Kg	J
T-5-23	39318	12/06/2001	23	8015B	N	TPH-Gasoline	56	mg/Kg	J
T-5-23	39318	12/06/2001	23	8015B	N	TPH as Motor Oil	200	mg/Kg	J
T-5-23	39318	12/06/2001	23	8015B	N	TPH as Diesel	190	mg/Kg	J
T-5-23	MY08W7	12/06/2001	23	Metals	N	ALUMINUM	9140	mg/Kg	
T-5-23	MY08W7	12/06/2001	23	Metals	N	ANTIMONY	0.86	mg/Kg	
T-5-23	MY08W7	12/06/2001	23	Metals	N	ARSENIC	2.3	mg/Kg	
T-5-23	MY08W7	12/06/2001	23	Metals	N	BARIUM	65	mg/Kg	
T-5-23	MY08W7	12/06/2001	23	Metals	N	BERYLLIUM	0.31	mg/Kg	
T-5-23	MY08W7	12/06/2001	23	Metals	N	CALCIUM	1770	mg/Kg	
T-5-23	MY08W7	12/06/2001	23	Metals	N	CHROMIUM	35.6	mg/Kg	
T-5-23	MY08W7	12/06/2001	23	Metals	N	COBALT	14.7	mg/Kg	
T-5-23	MY08W7	12/06/2001	23	Metals	N	COPPER	22.7	mg/Kg	
T-5-23	MY08W7	12/06/2001	23	Metals	N	IRON	16000	mg/Kg	J
T-5-23	MY08W7	12/06/2001	23	Metals	N	LEAD	6	mg/Kg	J
T-5-23	MY08W7	12/06/2001	23	Metals	N	MAGNESIUM	7330	mg/Kg	
T-5-23	MY08W7	12/06/2001	23	Metals	N	MANGANESE	559	mg/Kg	
T-5-23	MY08W7	12/06/2001	23	Metals	N	NICKEL	64.5	mg/Kg	
T-5-23	MY08W7	12/06/2001	23	Metals	N	POTASSIUM	608	mg/Kg	J
T-5-23	MY08W7	12/06/2001	23	Metals	N	SODIUM	570	mg/Kg	
T-5-23	MY08W7	12/06/2001	23	Metals	N	VANADIUM	30.3	mg/Kg	
T-5-23	MY08W7	12/06/2001	23	Metals	N	ZINC	40.6	mg/Kg	J
T-5-28	39319	12/06/2001	28	8015B	N	TPH as Motor Oil	10	mg/Kg	J
T-5-28	39319	12/06/2001	28	8015B	N	TPH as Diesel	10	mg/Kg	J
T-5-28	39319	12/06/2001	28	8015B	N	TPH-Gasoline	30	mg/Kg	J
T-5-28	MY08W8	12/06/2001	28	Metals	N	ALUMINUM	8780	mg/Kg	J
T-5-28	MY08W8	12/06/2001	28	Metals	N	ANTIMONY	1.3	mg/Kg	
T-5-28	MY08W8	12/06/2001	28	Metals	N	ARSENIC	9.7	mg/Kg	
T-5-28	MY08W8	12/06/2001	28	Metals	N	BARIUM	54.4	mg/Kg	
T-5-28	MY08W8	12/06/2001	28	Metals	N	BERYLLIUM	0.32	mg/Kg	
T-5-28	MY08W8	12/06/2001	28	Metals	N	CADMIUM	0.18	mg/Kg	
T-5-28	MY08W8	12/06/2001	28	Metals	N	CALCIUM	2340	mg/Kg	
T-5-28	MY08W8	12/06/2001	28	Metals	N	CHROMIUM	47.2	mg/Kg	
T-5-28	MY08W8	12/06/2001	28	Metals	N	COBALT	17.6	mg/Kg	
T-5-28	MY08W8	12/06/2001	28	Metals	N	COPPER	62	mg/Kg	J
T-5-28	MY08W8	12/06/2001	28	Metals	N	IRON	19200	mg/Kg	
T-5-28	MY08W8	12/06/2001	28	Metals	N	LEAD	7.7	mg/Kg	J
T-5-28	MY08W8	12/06/2001	28	Metals	N	MAGNESIUM	7760	mg/Kg	J
T-5-28	MY08W8	12/06/2001	28	Metals	N	MANGANESE	513	mg/Kg	
T-5-28	MY08W8	12/06/2001	28	Metals	N	MERCURY	0.07	mg/Kg	
T-5-28	MY08W8	12/06/2001	28	Metals	N	NICKEL	95.3	mg/Kg	
T-5-28	MY08W8	12/06/2001	28	Metals	N	POTASSIUM	613	mg/Kg	
T-5-28	MY08W8	12/06/2001	28	Metals	N	SODIUM	510	mg/Kg	
T-5-28	MY08W8	12/06/2001	28	Metals	N	VANADIUM	40.5	mg/Kg	
T-5-28	MY08W8	12/06/2001	28	Metals	N	ZINC	40.5	mg/Kg	
T-6-3	39320	12/07/2001	3	8015B	N	TPH as Motor Oil	3000	mg/Kg	J
T-6-3	39320	12/07/2001	3	8015B	N	TPH-Gasoline	32	mg/Kg	J
T-6-3	39320	12/07/2001	3	8015B	N	TPH as Diesel	4300	mg/Kg	
T-6-3	MY08W9	12/07/2001	3	Metals	N	ALUMINUM	18400	mg/Kg	
T-6-3	MY08W9	12/07/2001	3	Metals	N	ALUMINUM	18400	mg/Kg	J
T-6-3	MY08W9	12/07/2001	3	Metals	N	ARSENIC	5.1	mg/Kg	
T-6-3	MY08W9	12/07/2001	3	Metals	N	ARSENIC	5.1	mg/Kg	
T-6-3	MY08W9	12/07/2001	3	Metals	N	BARIUM	242	mg/Kg	
T-6-3	MY08W9	12/07/2001	3	Metals	N	BARIUM	242	mg/Kg	
T-6-3	MY08W9	12/07/2001	3	Metals	N	BERYLLIUM	0.52	mg/Kg	
T-6-3	MY08W9	12/07/2001	3	Metals	N	CALCIUM	3880	mg/Kg	

Table 8-2
Chemicals Detected in the Area of the Former Above-Ground Storage Tanks

Location	Sample ID	Sample Date	Depth (ft)	Method	QA/QC Type[1]	Analyte	Result[2]	Units	Flag[3]
T-6-3	MY08W9	12/07/2001	3	Metals	N	CALCIUM	3880	mg/Kg	
T-6-3	MY08W9	12/07/2001	3	Metals	N	CHROMIUM	104	mg/Kg	
T-6-3	MY08W9	12/07/2001	3	Metals	N	CHROMIUM	104	mg/Kg	
T-6-3	MY08W9	12/07/2001	3	Metals	N	COBALT	23.4	mg/Kg	
T-6-3	MY08W9	12/07/2001	3	Metals	N	COBALT	23.4	mg/Kg	J
T-6-3	MY08W9	12/07/2001	3	Metals	N	COPPER	48.1	mg/Kg	J
T-6-3	MY08W9	12/07/2001	3	Metals	N	COPPER	48.1	mg/Kg	
T-6-3	MY08W9	12/07/2001	3	Metals	N	IRON	36100	mg/Kg	
T-6-3	MY08W9	12/07/2001	3	Metals	N	IRON	36000	mg/Kg	J
T-6-3	MY08W9	12/07/2001	3	Metals	N	LEAD	8.2	mg/Kg	J
T-6-3	MY08W9	12/07/2001	3	Metals	N	LEAD	8.2	mg/Kg	UJ
T-6-3	MY08W9	12/07/2001	3	Metals	N	MAGNESIUM	19200	mg/Kg	
T-6-3	MY08W9	12/07/2001	3	Metals	N	MAGNESIUM	19200	mg/Kg	
T-6-3	MY08W9	12/07/2001	3	Metals	N	MANGANESE	534	mg/Kg	
T-6-3	MY08W9	12/07/2001	3	Metals	N	MANGANESE	534	mg/Kg	J
T-6-3	MY08W9	12/07/2001	3	Metals	N	MERCURY	0.065	mg/Kg	J
T-6-3	MY08W9	12/07/2001	3	Metals	N	NICKEL	223	mg/Kg	J
T-6-3	MY08W9	12/07/2001	3	Metals	N	NICKEL	223	mg/Kg	
T-6-3	MY08W9	12/07/2001	3	Metals	N	Percent Solids	76.7	%	
T-6-3	MY08W9	12/07/2001	3	Metals	N	POTASSIUM	2090	mg/Kg	
T-6-3	MY08W9	12/07/2001	3	Metals	N	POTASSIUM	2090	mg/Kg	J
T-6-3	MY08W9	12/07/2001	3	Metals	N	SODIUM	567	mg/Kg	
T-6-3	MY08W9	12/07/2001	3	Metals	N	VANADIUM	65.6	mg/Kg	
T-6-3	MY08W9	12/07/2001	3	Metals	N	VANADIUM	65.6	mg/Kg	
T-6-3	MY08W9	12/07/2001	3	Metals	N	ZINC	90.2	mg/Kg	UJ
T-6-3	MY08W9	12/07/2001	3	Metals	N	ZINC	90.2	mg/Kg	UJ
T-6-3	Y0C40	12/07/2001	3	Pest/PCBs	N	4,4'-DDE	5.5	ug/Kg	UJ
T-6-3	Y0C40	12/07/2001	3	Pest/PCBs	N	Percent Solids	86	%	
T-6-3	Y0C40	12/07/2001	3	Pest/PCBs	N	Percent Solids	76	%	J
T-6-3	Y0C40	12/07/2001	3	VOCs	N	Chloroethane	10	ug/Kg	J
T-6-3	Y0C40	12/07/2001	3	VOCs	N	Dichloromethane	10	ug/Kg	J
T-6-3	Y0C40	12/07/2001	3	VOCs	N	Acetone	40	ug/Kg	J
T-6-3	Y0C40	12/07/2001	3	VOCs	N	% Moisture	24	%	J
T-6-3	Y0C40	12/07/2001	3	VOCs	N	Methylcyclohexane	3	ug/Kg	
T-6-3	Y0C40	12/07/2001	3	VOCs	N	Xylenes (total)	3	ug/Kg	
T-6-3	Y0C40	12/07/2001	3	VOCs	N	Chloromethane	1	ug/Kg	
T-6-3	Y0C40	12/07/2001	3	VOCs	N	2-Butanone	7	ug/Kg	
T-6-3	Y0C40	12/07/2001	3	VOCs	N	Dichlorodifluoromethane	1	ug/Kg	
T-6-8	39321	12/07/2001	8	8015B	N	TPH as Gasoline	58	mg/Kg	J
T-6-8	39321	12/07/2001	8	8015B	N	TPH as Diesel	420	mg/Kg	J
T-6-8	39321	12/07/2001	8	8015B	N	TPH as Motor Oil	340	mg/Kg	
T-6-8	MY08X0	12/07/2001	8	Metals	N	ALUMINUM	20800	mg/Kg	
T-6-8	MY08X0	12/07/2001	8	Metals	N	ALUMINUM	20800	mg/Kg	J
T-6-8	MY08X0	12/07/2001	8	Metals	N	ARSENIC	5.4	mg/Kg	J
T-6-8	MY08X0	12/07/2001	8	Metals	N	ARSENIC	5.4	mg/Kg	
T-6-8	MY08X0	12/07/2001	8	Metals	N	BARIUM	262	mg/Kg	
T-6-8	MY08X0	12/07/2001	8	Metals	N	BARIUM	262	mg/Kg	
T-6-8	MY08X0	12/07/2001	8	Metals	N	BERYLLIUM	0.61	mg/Kg	
T-6-8	MY08X0	12/07/2001	8	Metals	N	BERYLLIUM	0.61	mg/Kg	
T-6-8	MY08X0	12/07/2001	8	Metals	N	CALCIUM	3630	mg/Kg	
T-6-8	MY08X0	12/07/2001	8	Metals	N	CALCIUM	3630	mg/Kg	
T-6-8	MY08X0	12/07/2001	8	Metals	N	CHROMIUM	109	mg/Kg	
T-6-8	MY08X0	12/07/2001	8	Metals	N	CHROMIUM	108	mg/Kg	
T-6-8	MY08X0	12/07/2001	8	Metals	N	COBALT	26.9	mg/Kg	
T-6-8	MY08X0	12/07/2001	8	Metals	N	COBALT	26.9	mg/Kg	J
T-6-8	MY08X0	12/07/2001	8	Metals	N	COPPER	53.3	mg/Kg	J
T-6-8	MY08X0	12/07/2001	8	Metals	N	COPPER	53.3	mg/Kg	

Table 8-2
Chemicals Detected in the Area of the Former Above-Ground Storage Tanks

Location	Sample ID	Sample Date	Depth (ft)	Method	QA/QC Type[1]	Analyte	Result [2]	Units	Flag[3]
T-6-8	MY08X0	12/07/2001	8	Metals	N	IRON	37800	mg/Kg	
T-6-8	MY08X0	12/07/2001	8	Metals	N	IRON	37800	mg/Kg	J
T-6-8	MY08X0	12/07/2001	8	Metals	N	LEAD	8.7	mg/Kg	J
T-6-8	MY08X0	12/07/2001	8	Metals	N	LEAD	8.7	mg/Kg	J
T-6-8	MY08X0	12/07/2001	8	Metals	N	MAGNESIUM	21000	mg/Kg	J
T-6-8	MY08X0	12/07/2001	8	Metals	N	MAGNESIUM	21000	mg/Kg	
T-6-8	MY08X0	12/07/2001	8	Metals	N	MANGANESE	785	mg/Kg	
T-6-8	MY08X0	12/07/2001	8	Metals	N	MANGANESE	784	mg/Kg	
T-6-8	MY08X0	12/07/2001	8	Metals	N	MERCURY	0.07	mg/Kg	J
T-6-8	MY08X0	12/07/2001	8	Metals	N	MERCURY	0.067	mg/Kg	J
T-6-8	MY08X0	12/07/2001	8	Metals	N	NICKEL	232	mg/Kg	
T-6-8	MY08X0	12/07/2001	8	Metals	N	NICKEL	232	mg/Kg	
T-6-8	MY08X0	12/07/2001	8	Metals	N	Percent Solids	78.4	mg/Kg	J
T-6-8	MY08X0	12/07/2001	8	Metals	N	POTASSIUM	1790	mg/Kg	
T-6-8	MY08X0	12/07/2001	8	Metals	N	POTASSIUM	1790	mg/Kg	
T-6-8	MY08X0	12/07/2001	8	Metals	N	SELENIUM	1.3	mg/Kg	
T-6-8	MY08X0	12/07/2001	8	Metals	N	SELENIUM	1.3	mg/Kg	J
T-6-8	MY08X0	12/07/2001	8	Metals	N	SODIUM	712	mg/Kg	
T-6-8	MY08X0	12/07/2001	8	Metals	N	VANADIUM	76.4	mg/Kg	
T-6-8	MY08X0	12/07/2001	8	Metals	N	VANADIUM	76.4	mg/Kg	
T-6-8	MY08X0	12/07/2001	8	Metals	N	ZINC	88.9	mg/Kg	
T-6-8	MY08X0	12/07/2001	8	Metals	N	ZINC	88.9	mg/Kg	
T-6-8	Y0C41	12/07/2001	8	Pest/PCBs	N	Percent Solids	92	%	J
T-6-8	Y0C41	12/07/2001	8	Pest/PCBs	N	4,4'-DDT	4.3	ug/Kg	
T-6-8	Y0C41	12/07/2001	8	Pest/PCBs	N	4,4'-DDT	9	ug/Kg	
T-6-8	Y0C41	12/07/2001	8	Pest/PCBs	N	Percent Solids	79	%	
T-6-8	Y0C41	12/07/2001	8	Pest/PCBs	N	4,4'-DDD	4.8	ug/Kg	
T-6-8	Y0C41	12/07/2001	8	Pest/PCBs	N	Dieldrin	3.3	ug/Kg	
T-6-13	39322	12/07/2001	13	8015B	N	TPH as Diesel	19000	mg/Kg	J
T-6-13	39322	12/07/2001	13	8015B	N	TPH as Gasoline	60	mg/Kg	J
T-6-13	39322	12/07/2001	13	8015B	N	TPH as Motor Oil	13000	mg/Kg	
T-6-13	MY08X1	12/07/2001	13	Metals	N	ALUMINUM	18400	mg/Kg	J
T-6-13	MY08X1	12/07/2001	13	Metals	N	ALUMINUM	18400	mg/Kg	J
T-6-13	MY08X1	12/07/2001	13	Metals	N	ARSENIC	7.4	mg/Kg	
T-6-13	MY08X1	12/07/2001	13	Metals	N	ARSENIC	7.4	mg/Kg	
T-6-13	MY08X1	12/07/2001	13	Metals	N	BARIUM	230	mg/Kg	
T-6-13	MY08X1	12/07/2001	13	Metals	N	BARIUM	230	mg/Kg	
T-6-13	MY08X1	12/07/2001	13	Metals	N	BERYLLIUM	0.52	mg/Kg	
T-6-13	MY08X1	12/07/2001	13	Metals	N	BERYLLIUM	0.52	mg/Kg	
T-6-13	MY08X1	12/07/2001	13	Metals	N	CALCIUM	9940	mg/Kg	
T-6-13	MY08X1	12/07/2001	13	Metals	N	CALCIUM	9940	mg/Kg	
T-6-13	MY08X1	12/07/2001	13	Metals	N	CHROMIUM	112	mg/Kg	
T-6-13	MY08X1	12/07/2001	13	Metals	N	CHROMIUM	112	mg/Kg	
T-6-13	MY08X1	12/07/2001	13	Metals	N	COBALT	23.7	mg/Kg	J
T-6-13	MY08X1	12/07/2001	13	Metals	N	COBALT	23.7	mg/Kg	J
T-6-13	MY08X1	12/07/2001	13	Metals	N	COPPER	46.1	mg/Kg	
T-6-13	MY08X1	12/07/2001	13	Metals	N	COPPER	46.1	mg/Kg	
T-6-13	MY08X1	12/07/2001	13	Metals	N	IRON	36800	mg/Kg	J
T-6-13	MY08X1	12/07/2001	13	Metals	N	IRON	36800	mg/Kg	J
T-6-13	MY08X1	12/07/2001	13	Metals	N	LEAD	8	mg/Kg	UJ
T-6-13	MY08X1	12/07/2001	13	Metals	N	LEAD	8	mg/Kg	
T-6-13	MY08X1	12/07/2001	13	Metals	N	MAGNESIUM	24900	mg/Kg	
T-6-13	MY08X1	12/07/2001	13	Metals	N	MAGNESIUM	24900	mg/Kg	
T-6-13	MY08X1	12/07/2001	13	Metals	N	MANGANESE	777	mg/Kg	J
T-6-13	MY08X1	12/07/2001	13	Metals	N	MANGANESE	777	mg/Kg	J
T-6-13	MY08X1	12/07/2001	13	Metals	N	MERCURY	0.056	mg/Kg	J
T-6-13	MY08X1	12/07/2001	13	Metals	N	NICKEL	239	mg/Kg	

Table 8-2
Chemicals Detected in the Area of the Former Above-Ground Storage Tanks

Location	Sample ID	Sample Date	Depth (ft)	Method	QA/QC Type[1]	Analyte	Result[2]	Units	Flag[3]
T-6-13	MY08X1	12/07/2001	13	Metals	N	NICKEL	239	mg/Kg	
T-6-13	MY08X1	12/07/2001	13	Metals	N	Percent Solids	81.4	%	
T-6-13	MY08X1	12/07/2001	13	Metals	N	POTASSIUM	1730	mg/Kg	J
T-6-13	MY08X1	12/07/2001	13	Metals	N	POTASSIUM	1730	mg/Kg	UJ
T-6-13	MY08X1	12/07/2001	13	Metals	N	SODIUM	704	mg/Kg	UJ
T-6-13	MY08X1	12/07/2001	13	Metals	N	VANADIUM	66.8	mg/Kg	UJ
T-6-13	MY08X1	12/07/2001	13	Metals	N	VANADIUM	66.8	mg/Kg	UJ
T-6-13	MY08X1	12/07/2001	13	Metals	N	ZINC	75.9	mg/Kg	UJ
T-6-13	MY08X1	12/07/2001	13	Metals	N	ZINC	75.8	mg/Kg	UJ
T-6-13	Y0C42	12/07/2001	13	Pest/PCBs	N	Aldrin	2.2	ug/Kg	UJ
T-6-13	Y0C42	12/07/2001	13	Pest/PCBs	N	alpha-BHC	2.2	ug/Kg	UJ
T-6-13	Y0C42	12/07/2001	13	Pest/PCBs	N	Arochlor-1016	42	ug/Kg	UJ
T-6-13	Y0C42	12/07/2001	13	Pest/PCBs	N	Arochlor-1221	86	ug/Kg	UJ
T-6-13	Y0C42	12/07/2001	13	Pest/PCBs	N	Arochlor-1232	42	ug/Kg	UJ
T-6-13	Y0C42	12/07/2001	13	Pest/PCBs	N	Arochlor-1242	42	ug/Kg	UJ
T-6-13	Y0C42	12/07/2001	13	Pest/PCBs	N	beta-BHC	2.2	ug/Kg	
T-6-13	Y0C42	12/07/2001	13	Pest/PCBs	N	delta-BHC	2.2	ug/Kg	
T-6-13	Y0C42	12/07/2001	13	Pest/PCBs	N	Endosulfan I	2.2	ug/Kg	
T-6-13	Y0C42	12/07/2001	13	Pest/PCBs	N	gamma-BHC (Lindane)	2.2	ug/Kg	J
T-6-13	Y0C42	12/07/2001	13	Pest/PCBs	N	Heptachlor	2.2	ug/Kg	UJ
T-6-13	Y0C42	12/07/2001	13	Pest/PCBs	N	Heptachlor epoxide	2.2	ug/Kg	J
T-6-13	Y0C42	12/07/2001	13	Pest/PCBs	N	Percent Solids	96	ug/Kg	UJ
T-6-13	Y0C42	12/07/2001	13	Pest/PCBs	N	Percent Solids	78	ug/Kg	
T-6-13	Y0C42	12/07/2001	13	VOCs	N	% Moisture	22	%	UJ
T-6-13	Y0C42	12/07/2001	13	VOCs	N	2-Butanone	11	ug/Kg	J
T-6-13	Y0C42	12/07/2001	13	VOCs	N	Acetone	39	ug/Kg	J
T-6-13	Y0C42	12/07/2001	13	VOCs	N	Benzene	2	ug/Kg	
T-6-13	Y0C42	12/07/2001	13	VOCs	N	Chloroethane	11	ug/Kg	
T-6-13	Y0C42	12/07/2001	13	VOCs	N	Cyclohexane	18	ug/Kg	
T-6-13	Y0C42	12/07/2001	13	VOCs	N	Dichloromethane	11	ug/Kg	
T-6-13	Y0C42	12/07/2001	13	VOCs	N	Ethylbenzene	24	ug/Kg	
T-6-13	Y0C42	12/07/2001	13	VOCs	N	Isopropylbenzene	69	ug/Kg	
T-6-13	Y0C42	12/07/2001	13	VOCs	N	Methylcyclohexane	120	ug/Kg	
T-6-18	39323	12/07/2001	18	8015B	N	TPH as Diesel	3500	mg/Kg	J
T-6-18	39323	12/07/2001	18	8015B	N	TPH as Gasoline	68	mg/Kg	J
T-6-18	39323	12/07/2001	18	8015B	N	TPH as Motor Oil	2500	mg/Kg	J
T-6-18	MY08X2	12/07/2001	18	Metals	N	ALUMINUM	18900	mg/Kg	J
T-6-18	MY08X2	12/07/2001	18	Metals	N	ALUMINUM	18900	mg/Kg	
T-6-18	MY08X2	12/07/2001	18	Metals	N	ARSENIC	7.9	mg/Kg	
T-6-18	MY08X2	12/07/2001	18	Metals	N	ARSENIC	7.9	mg/Kg	
T-6-18	MY08X2	12/07/2001	18	Metals	N	BARIUM	219	mg/Kg	
T-6-18	MY08X2	12/07/2001	18	Metals	N	BARIUM	219	mg/Kg	
T-6-18	MY08X2	12/07/2001	18	Metals	N	BERYLLIUM	0.49	mg/Kg	
T-6-18	MY08X2	12/07/2001	18	Metals	N	BERYLLIUM	0.49	mg/Kg	
T-6-18	MY08X2	12/07/2001	18	Metals	N	CALCIUM	2480	mg/Kg	
T-6-18	MY08X2	12/07/2001	18	Metals	N	CALCIUM	2480	mg/Kg	
T-6-18	MY08X2	12/07/2001	18	Metals	N	CHROMIUM	94.2	mg/Kg	
T-6-18	MY08X2	12/07/2001	18	Metals	N	CHROMIUM	94.2	mg/Kg	J
T-6-18	MY08X2	12/07/2001	18	Metals	N	COBALT	23.2	mg/Kg	J
T-6-18	MY08X2	12/07/2001	18	Metals	N	COBALT	23.2	mg/Kg	
T-6-18	MY08X2	12/07/2001	18	Metals	N	COPPER	55.1	mg/Kg	
T-6-18	MY08X2	12/07/2001	18	Metals	N	COPPER	55.1	mg/Kg	J
T-6-18	MY08X2	12/07/2001	18	Metals	N	IRON	38700	mg/Kg	J
T-6-18	MY08X2	12/07/2001	18	Metals	N	IRON	38700	mg/Kg	J
T-6-18	MY08X2	12/07/2001	18	Metals	N	LEAD	8.3	mg/Kg	J
T-6-18	MY08X2	12/07/2001	18	Metals	N	LEAD	8.3	mg/Kg	
T-6-18	MY08X2	12/07/2001	18	Metals	N	MAGNESIUM	18300	mg/Kg	

Table 8-2
Chemicals Detected in the Area of the Former Above-Ground Storage Tanks

Location	Sample ID	Sample Date	Depth (ft)	Method	QA/QC Type[1]	Analyte	Result[2]	Units	Flag[3]
T-6-18	MY08X2	12/07/2001	18	Metals	N	MAGNESIUM	18300	mg/Kg	
T-6-18	MY08X2	12/07/2001	18	Metals	N	MANGANESE	843	mg/Kg	J
T-6-18	MY08X2	12/07/2001	18	Metals	N	MANGANESE	843	mg/Kg	J
T-6-18	MY08X2	12/07/2001	18	Metals	N	MERCURY	0.05	mg/Kg	
T-6-18	MY08X2	12/07/2001	18	Metals	N	MERCURY	0.055	mg/Kg	
T-6-18	MY08X2	12/07/2001	18	Metals	N	NICKEL	203	mg/Kg	J
T-6-18	MY08X2	12/07/2001	18	Metals	N	NICKEL	203	mg/Kg	
T-6-18	MY08X2	12/07/2001	18	Metals	N	Percent Solids	80	%	
T-6-18	MY08X2	12/07/2001	18	Metals	N	POTASSIUM	1600	mg/Kg	
T-6-18	MY08X2	12/07/2001	18	Metals	N	POTASSIUM	1600	mg/Kg	J
T-6-18	MY08X2	12/07/2001	18	Metals	N	SELENIUM	1.4	mg/Kg	UJ
T-6-18	MY08X2	12/07/2001	18	Metals	N	SELENIUM	1.4	mg/Kg	UJ
T-6-18	MY08X2	12/07/2001	18	Metals	N	SODIUM	551	mg/Kg	UJ
T-6-18	MY08X2	12/07/2001	18	Metals	N	VANADIUM	71.7	mg/Kg	UJ
T-6-18	MY08X2	12/07/2001	18	Metals	N	VANADIUM	71.7	mg/Kg	UJ
T-6-18	MY08X2	12/07/2001	18	Metals	N	ZINC	88.3	mg/Kg	UJ
T-6-18	MY08X2	12/07/2001	18	Metals	N	ZINC	88.3	mg/Kg	UJ
T-6-18	Y0C43	12/07/2001	18	Pest/PCBs	N	Aldrin	2.1	ug/Kg	UJ
T-6-18	Y0C43	12/07/2001	18	Pest/PCBs	N	alpha-BHC	2.1	ug/Kg	UJ
T-6-18	Y0C43	12/07/2001	18	Pest/PCBs	N	Arochlor-1016	41	ug/Kg	UJ
T-6-18	Y0C43	12/07/2001	18	Pest/PCBs	N	Arochlor-1221	83	ug/Kg	UJ
T-6-18	Y0C43	12/07/2001	18	Pest/PCBs	N	Arochlor-1232	41	ug/Kg	UJ
T-6-18	Y0C43	12/07/2001	18	Pest/PCBs	N	Arochlor-1242	41	ug/Kg	
T-6-18	Y0C43	12/07/2001	18	Pest/PCBs	N	beta-BHC	2.1	ug/Kg	
T-6-18	Y0C43	12/07/2001	18	Pest/PCBs	N	delta-BHC	2.1	ug/Kg	
T-6-18	Y0C43	12/07/2001	18	Pest/PCBs	N	Endosulfan I	2.1	ug/Kg	J
T-6-18	Y0C43	12/07/2001	18	Pest/PCBs	N	gamma-BHC (Lindane)	2.1	ug/Kg	UJ
T-6-18	Y0C43	12/07/2001	18	Pest/PCBs	N	Heptachlor	2.1	ug/Kg	UJ
T-6-18	Y0C43	12/07/2001	18	Pest/PCBs	N	Heptachlor epoxide	2.1	ug/Kg	J
T-6-18	Y0C43	12/07/2001	18	Pest/PCBs	N	Percent Solids	96	ug/Kg	J
T-6-18	Y0C43	12/07/2001	18	Pest/PCBs	N	Percent Solids	80	ug/Kg	J
T-6-18	Y0C43	12/07/2001	18	VOCs	N	% Moisture	20	%	UJ
T-6-18	Y0C43	12/07/2001	18	VOCs	N	2-Butanone	5	ug/Kg	J
T-6-18	Y0C43	12/07/2001	18	VOCs	N	Acetone	25	ug/Kg	
T-6-18	Y0C43	12/07/2001	18	VOCs	N	Chloroethane	12	ug/Kg	J
T-6-18	Y0C43	12/07/2001	18	VOCs	N	Chloromethane	2	ug/Kg	
T-6-18	Y0C43	12/07/2001	18	VOCs	N	Cyclohexane	4	ug/Kg	
T-6-18	Y0C43	12/07/2001	18	VOCs	N	Dichlorodifluoromethane	1	ug/Kg	
T-6-18	Y0C43	12/07/2001	18	VOCs	N	Dichloromethane	12	ug/Kg	
T-6-18	Y0C43	12/07/2001	18	VOCs	N	Isopropylbenzene	17	ug/Kg	
T-6-18	Y0C43	12/07/2001	18	VOCs	N	Methylcyclohexane	37	ug/Kg	
T-6-18	Y0C43	12/07/2001	18	VOCs	N	Xylenes (total)	2	ug/Kg	J
T-6-23	39324	12/07/2001	23	8015B	N	TPH as Diesel	7500	mg/Kg	J
T-6-23	39324	12/07/2001	23	8015B	N	TPH-Gasoline	86	mg/Kg	J
T-6-23	39324	12/07/2001	23	8015B	N	TPH as Motor Oil	5200	mg/Kg	J
T-6-23	MY08X3	12/07/2001	23	Metals	N	ALUMINUM	14700	mg/Kg	
T-6-23	MY08X3	12/07/2001	23	Metals	N	ALUMINUM	14700	mg/Kg	
T-6-23	MY08X3	12/07/2001	23	Metals	N	ARSENIC	5.6	mg/Kg	
T-6-23	MY08X3	12/07/2001	23	Metals	N	ARSENIC	5.6	mg/Kg	
T-6-23	MY08X3	12/07/2001	23	Metals	N	BARIUM	200	mg/Kg	
T-6-23	MY08X3	12/07/2001	23	Metals	N	BARIUM	200	mg/Kg	
T-6-23	MY08X3	12/07/2001	23	Metals	N	BERYLLIUM	0.46	mg/Kg	
T-6-23	MY08X3	12/07/2001	23	Metals	N	BERYLLIUM	0.46	mg/Kg	
T-6-23	MY08X3	12/07/2001	23	Metals	N	CALCIUM	1910	mg/Kg	
T-6-23	MY08X3	12/07/2001	23	Metals	N	CALCIUM	1910	mg/Kg	
T-6-23	MY08X3	12/07/2001	23	Metals	N	CHROMIUM	63.1	mg/Kg	J
T-6-23	MY08X3	12/07/2001	23	Metals	N	CHROMIUM	63.1	mg/Kg	J

Table 8-2
Chemicals Detected in the Area of the Former Above-Ground Storage Tanks

Location	Sample ID	Sample Date	Depth (ft)	Method	QA/QC Type[1]	Analyte	Result[2]	Units	Flag[3]
T-6-23	MY08X3	12/07/2001	23	Metals	N	COBALT	19.6	mg/Kg	
T-6-23	MY08X3	12/07/2001	23	Metals	N	COBALT	19.6	mg/Kg	
T-6-23	MY08X3	12/07/2001	23	Metals	N	COPPER	38.8	mg/Kg	J
T-6-23	MY08X3	12/07/2001	23	Metals	N	COPPER	38.8	mg/Kg	J
T-6-23	MY08X3	12/07/2001	23	Metals	N	IRON	27300	mg/Kg	UJ
T-6-23	MY08X3	12/07/2001	23	Metals	N	IRON	27300	mg/Kg	
T-6-23	MY08X3	12/07/2001	23	Metals	N	LEAD	7.9	mg/Kg	
T-6-23	MY08X3	12/07/2001	23	Metals	N	LEAD	7.9	mg/Kg	
T-6-23	MY08X3	12/07/2001	23	Metals	N	MAGNESIUM	12500	mg/Kg	J
T-6-23	MY08X3	12/07/2001	23	Metals	N	MAGNESIUM	12500	mg/Kg	J
T-6-23	MY08X3	12/07/2001	23	Metals	N	MANGANESE	386	mg/Kg	J
T-6-23	MY08X3	12/07/2001	23	Metals	N	MANGANESE	386	mg/Kg	
T-6-23	MY08X3	12/07/2001	23	Metals	N	MERCURY	0.059	mg/Kg	
T-6-23	MY08X3	12/07/2001	23	Metals	N	NICKEL	138	mg/Kg	
T-6-23	MY08X3	12/07/2001	23	Metals	N	NICKEL	138	mg/Kg	J
T-6-23	MY08X3	12/07/2001	23	Metals	N	Percent Solids	81	mg/Kg	
T-6-23	MY08X3	12/07/2001	23	Metals	N	POTASSIUM	1080	mg/Kg	
T-6-23	MY08X3	12/07/2001	23	Metals	N	POTASSIUM	1080	mg/Kg	
T-6-23	MY08X3	12/07/2001	23	Metals	N	SODIUM	460	mg/Kg	J
T-6-23	MY08X3	12/07/2001	23	Metals	N	VANADIUM	56.3	mg/Kg	UJ
T-6-23	MY08X3	12/07/2001	23	Metals	N	VANADIUM	56.3	mg/Kg	UJ
T-6-23	MY08X3	12/07/2001	23	Metals	N	ZINC	62.5	mg/Kg	J
T-6-23	MY08X3	12/07/2001	23	Metals	N	ZINC	62.4	mg/Kg	J
T-6-23	Y0C44	12/07/2001	23	Pest/PCBs	N	Percent Solids	88	%	UJ
T-6-23	Y0C44	12/07/2001	23	Pest/PCBs	N	Percent Solids	81	%	J
T-6-23	Y0C44	12/07/2001	23	VOCs	N	% Moisture	19	%	J
T-6-23	Y0C44	12/07/2001	23	VOCs	N	2-Butanone	4	ug/Kg	
T-6-23	Y0C44	12/07/2001	23	VOCs	N	Acetone	19	ug/Kg	J
T-6-23	Y0C44	12/07/2001	23	VOCs	N	Chloroethane	11	ug/Kg	
T-6-23	Y0C44	12/07/2001	23	VOCs	N	Cyclohexane	2	ug/Kg	
T-6-23	Y0C44	12/07/2001	23	VOCs	N	Dichlorodifluoromethane	1	ug/Kg	
T-6-23	Y0C44	12/07/2001	23	VOCs	N	Dichloromethane	11	ug/Kg	
T-6-23	Y0C44	12/07/2001	23	VOCs	N	Ethylbenzene	2	ug/Kg	
T-6-23	Y0C44	12/07/2001	23	VOCs	N	Isopropylbenzene	21	ug/Kg	
T-6-23	Y0C44	12/07/2001	23	VOCs	N	Methylcyclohexane	20	ug/Kg	J
T-6-23	Y0C44	12/07/2001	23	VOCs	N	Xylenes (total)	2	ug/Kg	J
T-6-28	39325	12/07/2001	28	8015B	N	TPH as Diesel	260	mg/Kg	J
T-6-28	MY08X4	12/07/2001	28	Metals	N	ALUMINUM	17700	mg/Kg	
T-6-28	MY08X4	12/07/2001	28	Metals	N	ALUMINUM	17700	mg/Kg	
T-6-28	MY08X4	12/07/2001	28	Metals	N	ARSENIC	7.7	mg/Kg	
T-6-28	MY08X4	12/07/2001	28	Metals	N	ARSENIC	7.7	mg/Kg	
T-6-28	MY08X4	12/07/2001	28	Metals	N	BARIUM	209	mg/Kg	
T-6-28	MY08X4	12/07/2001	28	Metals	N	BARIUM	209	mg/Kg	
T-6-28	MY08X4	12/07/2001	28	Metals	N	BERYLLIUM	0.51	mg/Kg	
T-6-28	MY08X4	12/07/2001	28	Metals	N	BERYLLIUM	0.51	mg/Kg	
T-6-28	MY08X4	12/07/2001	28	Metals	N	CALCIUM	2000	mg/Kg	
T-6-28	MY08X4	12/07/2001	28	Metals	N	CALCIUM	2000	mg/Kg	
T-6-28	MY08X4	12/07/2001	28	Metals	N	CHROMIUM	90	mg/Kg	J
T-6-28	MY08X4	12/07/2001	28	Metals	N	CHROMIUM	90	mg/Kg	J
T-6-28	MY08X4	12/07/2001	28	Metals	N	COBALT	21.4	mg/Kg	
T-6-28	MY08X4	12/07/2001	28	Metals	N	COBALT	21.4	mg/Kg	
T-6-28	MY08X4	12/07/2001	28	Metals	N	COPPER	46.2	mg/Kg	J
T-6-28	MY08X4	12/07/2001	28	Metals	N	COPPER	46.2	mg/Kg	J
T-6-28	MY08X4	12/07/2001	28	Metals	N	IRON	34900	mg/Kg	UJ
T-6-28	MY08X4	12/07/2001	28	Metals	N	IRON	34900	mg/Kg	
T-6-28	MY08X4	12/07/2001	28	Metals	N	LEAD	8.6	mg/Kg	
T-6-28	MY08X4	12/07/2001	28	Metals	N	LEAD	8.6	mg/Kg	

Table 8-2
Chemicals Detected in the Area of the Former Above-Ground Storage Tanks

Location	Sample ID	Sample Date	Depth (ft)	Method	QA/QC Type[1]	Analyte	Result[2]	Units	Flag[3]
T-6-28	MY08X4	12/07/2001	28	Metals	N	MAGNESIUM	15800	mg/Kg	J
T-6-28	MY08X4	12/07/2001	28	Metals	N	MAGNESIUM	15800	mg/Kg	J
T-6-28	MY08X4	12/07/2001	28	Metals	N	MANGANESE	388	mg/Kg	J
T-6-28	MY08X4	12/07/2001	28	Metals	N	MANGANESE	388	mg/Kg	
T-6-28	MY08X4	12/07/2001	28	Metals	N	MERCURY	0.049	mg/Kg	
T-6-28	MY08X4	12/07/2001	28	Metals	N	NICKEL	142	mg/Kg	
T-6-28	MY08X4	12/07/2001	28	Metals	N	NICKEL	142	mg/Kg	J
T-6-28	MY08X4	12/07/2001	28	Metals	N	Percent Solids	81.6	%	J
T-6-28	MY08X4	12/07/2001	28	Metals	N	POTASSIUM	1450	mg/Kg	
T-6-28	MY08X4	12/07/2001	28	Metals	N	POTASSIUM	1450	mg/Kg	
T-6-28	MY08X4	12/07/2001	28	Metals	N	SODIUM	680	mg/Kg	
T-6-28	MY08X4	12/07/2001	28	Metals	N	VANADIUM	60.6	mg/Kg	J
T-6-28	MY08X4	12/07/2001	28	Metals	N	VANADIUM	60.6	mg/Kg	
T-6-28	MY08X4	12/07/2001	28	Metals	N	ZINC	83.5	mg/Kg	
T-6-28	MY08X4	12/07/2001	28	Metals	N	ZINC	83.5	mg/Kg	
T-6-28	Y0C45	12/07/2001	28	Pest/PCBs	N	4,4'-DDD	4.1	ug/Kg	J
T-6-28	Y0C45	12/07/2001	28	Pest/PCBs	N	4,4'-DDT	12	ug/Kg	UJ
T-6-28	Y0C45	12/07/2001	28	Pest/PCBs	N	Aldrin	4.7	ug/Kg	UJ
T-6-28	Y0C45	12/07/2001	28	Pest/PCBs	N	Dieldrin	17	ug/Kg	J
T-6-28	Y0C45	12/07/2001	28	Pest/PCBs	N	Endrin ketone	2.5	ug/Kg	J
T-6-28	Y0C45	12/07/2001	28	Pest/PCBs	N	Percent Solids	96	ug/Kg	UJ
T-6-28	Y0C45	12/07/2001	28	Pest/PCBs	N	Percent Solids	75	ug/Kg	J
T-6-28	Y0C45	12/07/2001	28	VOCs	N	% Moisture	25	%	
T-6-28	Y0C45	12/07/2001	28	VOCs	N	2-Butanone	9	ug/Kg	
T-6-28	Y0C45	12/07/2001	28	VOCs	N	Acetone	40	ug/Kg	
T-6-28	Y0C45	12/07/2001	28	VOCs	N	Chloroethane	19	ug/Kg	
T-6-28	Y0C45	12/07/2001	28	VOCs	N	Cyclohexane	3	ug/Kg	
T-6-28	Y0C45	12/07/2001	28	VOCs	N	Dichlorodifluoromethane	2	ug/Kg	
T-6-28	Y0C45	12/07/2001	28	VOCs	N	Dichloromethane	19	ug/Kg	
T-6-28	Y0C45	12/07/2001	28	VOCs	N	Isopropylbenzene	18	ug/Kg	
T-6-28	Y0C45	12/07/2001	28	VOCs	N	Methylcyclohexane	35	ug/Kg	
T-6A-3	39326	12/07/2001	3	8015B	N	TPH as Diesel	60	mg/Kg	J
T-6A-3	39326	12/07/2001	3	8015B	N	TPH-Gasoline	8	mg/Kg	J
T-6A-3	39327	12/07/2001	3	8015B	FD	TPH-Gasoline	30	mg/Kg	J
T-6A-3	39327	12/07/2001	3	8015B	FD	TPH as Motor Oil	340	mg/Kg	
T-6A-3	39326	12/07/2001	3	8015B	N	TPH as Motor Oil	50	mg/Kg	
T-6A-3	39327	12/07/2001	3	8015B	FD	TPH as Diesel	450	mg/Kg	
T-6A-3	MY08X6	12/07/2001	3	Metals	FD	ALUMINUM	19600	mg/Kg	
T-6A-3	MY08X5	12/07/2001	3	Metals	N	ALUMINUM	12900	mg/Kg	
T-6A-3	MY08X5	12/07/2001	3	Metals	N	ALUMINUM	12900	mg/Kg	
T-6A-3	MY08X6	12/07/2001	3	Metals	FD	ALUMINUM	19600	mg/Kg	
T-6A-3	MY08X6	12/07/2001	3	Metals	FD	ARSENIC	6	mg/Kg	J
T-6A-3	MY08X5	12/07/2001	3	Metals	N	ARSENIC	6.5	mg/Kg	J
T-6A-3	MY08X5	12/07/2001	3	Metals	N	ARSENIC	6.5	mg/Kg	J
T-6A-3	MY08X6	12/07/2001	3	Metals	FD	ARSENIC	6	mg/Kg	J
T-6A-3	MY08X6	12/07/2001	3	Metals	FD	BARIUM	238	mg/Kg	
T-6A-3	MY08X5	12/07/2001	3	Metals	N	BARIUM	146	mg/Kg	
T-6A-3	MY08X6	12/07/2001	3	Metals	FD	BARIUM	238	mg/Kg	
T-6A-3	MY08X5	12/07/2001	3	Metals	N	BARIUM	146	mg/Kg	
T-6A-3	MY08X5	12/07/2001	3	Metals	N	BERYLLIUM	0.34	mg/Kg	
T-6A-3	MY08X6	12/07/2001	3	Metals	FD	BERYLLIUM	0.54	mg/Kg	
T-6A-3	MY08X5	12/07/2001	3	Metals	N	BERYLLIUM	0.34	mg/Kg	
T-6A-3	MY08X6	12/07/2001	3	Metals	FD	BERYLLIUM	0.54	mg/Kg	
T-6A-3	MY08X6	12/07/2001	3	Metals	FD	CALCIUM	3300	mg/Kg	
T-6A-3	MY08X5	12/07/2001	3	Metals	N	CALCIUM	3020	mg/Kg	
T-6A-3	MY08X5	12/07/2001	3	Metals	N	CALCIUM	3020	mg/Kg	
T-6A-3	MY08X6	12/07/2001	3	Metals	FD	CALCIUM	3300	mg/Kg	

Table 8-2
Chemicals Detected in the Area of the Former Above-Ground Storage Tanks

Location	Sample ID	Sample Date	Depth (ft)	Method	QA/QC Type[1]	Analyte	Result[2]	Units	Flag[3]
T-6A-3	MY08X6	12/07/2001	3	Metals	FD	CHROMIUM	109	mg/Kg	
T-6A-3	MY08X5	12/07/2001	3	Metals	N	CHROMIUM	118	mg/Kg	
T-6A-3	MY08X5	12/07/2001	3	Metals	N	CHROMIUM	118	mg/Kg	
T-6A-3	MY08X6	12/07/2001	3	Metals	FD	CHROMIUM	109	mg/Kg	
T-6A-3	MY08X6	12/07/2001	3	Metals	FD	COBALT	27.7	mg/Kg	
T-6A-3	MY08X5	12/07/2001	3	Metals	N	COBALT	21	mg/Kg	
T-6A-3	MY08X5	12/07/2001	3	Metals	N	COBALT	21	mg/Kg	
T-6A-3	MY08X6	12/07/2001	3	Metals	FD	COBALT	27.7	mg/Kg	
T-6A-3	MY08X6	12/07/2001	3	Metals	FD	COPPER	53.8	mg/Kg	J
T-6A-3	MY08X5	12/07/2001	3	Metals	N	COPPER	33.3	mg/Kg	J
T-6A-3	MY08X5	12/07/2001	3	Metals	N	COPPER	33.3	mg/Kg	J
T-6A-3	MY08X6	12/07/2001	3	Metals	FD	COPPER	53.8	mg/Kg	J
T-6A-3	MY08X5	12/07/2001	3	Metals	N	IRON	31700	mg/Kg	
T-6A-3	MY08X6	12/07/2001	3	Metals	FD	IRON	38600	mg/Kg	
T-6A-3	MY08X5	12/07/2001	3	Metals	N	IRON	31600	mg/Kg	
T-6A-3	MY08X6	12/07/2001	3	Metals	FD	IRON	38600	mg/Kg	
T-6A-3	MY08X6	12/07/2001	3	Metals	FD	LEAD	8.7	mg/Kg	J
T-6A-3	MY08X5	12/07/2001	3	Metals	N	LEAD	8.1	mg/Kg	J
T-6A-3	MY08X5	12/07/2001	3	Metals	N	LEAD	8.1	mg/Kg	J
T-6A-3	MY08X6	12/07/2001	3	Metals	FD	LEAD	8.6	mg/Kg	J
T-6A-3	MY08X6	12/07/2001	3	Metals	FD	MAGNESIUM	21200	mg/Kg	J
T-6A-3	MY08X5	12/07/2001	3	Metals	N	MAGNESIUM	20500	mg/Kg	J
T-6A-3	MY08X5	12/07/2001	3	Metals	N	MAGNESIUM	20500	mg/Kg	J
T-6A-3	MY08X6	12/07/2001	3	Metals	FD	MAGNESIUM	21200	mg/Kg	J
T-6A-3	MY08X6	12/07/2001	3	Metals	FD	MANGANESE	962	mg/Kg	
T-6A-3	MY08X5	12/07/2001	3	Metals	N	MANGANESE	520	mg/Kg	
T-6A-3	MY08X5	12/07/2001	3	Metals	N	MANGANESE	520	mg/Kg	
T-6A-3	MY08X6	12/07/2001	3	Metals	FD	MANGANESE	962	mg/Kg	
T-6A-3	MY08X6	12/07/2001	3	Metals	FD	MERCURY	0.08	mg/Kg	
T-6A-3	MY08X5	12/07/2001	3	Metals	N	MERCURY	0.08	mg/Kg	
T-6A-3	MY08X5	12/07/2001	3	Metals	N	MERCURY	0.083	mg/Kg	J
T-6A-3	MY08X6	12/07/2001	3	Metals	FD	MERCURY	0.081	mg/Kg	J
T-6A-3	MY08X6	12/07/2001	3	Metals	FD	NICKEL	243	mg/Kg	J
T-6A-3	MY08X5	12/07/2001	3	Metals	N	NICKEL	236	mg/Kg	J
T-6A-3	MY08X6	12/07/2001	3	Metals	FD	NICKEL	243	mg/Kg	
T-6A-3	MY08X5	12/07/2001	3	Metals	N	NICKEL	236	mg/Kg	
T-6A-3	MY08X6	12/07/2001	3	Metals	FD	Percent Solids	78.4	%	J
T-6A-3	MY08X5	12/07/2001	3	Metals	N	Percent Solids	87.1	%	J
T-6A-3	MY08X6	12/07/2001	3	Metals	FD	POTASSIUM	1530	mg/Kg	J
T-6A-3	MY08X5	12/07/2001	3	Metals	N	POTASSIUM	1840	mg/Kg	J
T-6A-3	MY08X6	12/07/2001	3	Metals	FD	POTASSIUM	1530	mg/Kg	
T-6A-3	MY08X5	12/07/2001	3	Metals	N	POTASSIUM	1840	mg/Kg	
T-6A-3	MY08X6	12/07/2001	3	Metals	FD	SELENIUM	1.6	mg/Kg	
T-6A-3	MY08X6	12/07/2001	3	Metals	FD	SELENIUM	1.6	mg/Kg	
T-6A-3	MY08X5	12/07/2001	3	Metals	N	SELENIUM	1.1	mg/Kg	
T-6A-3	MY08X5	12/07/2001	3	Metals	N	SELENIUM	1.1	mg/Kg	
T-6A-3	MY08X6	12/07/2001	3	Metals	FD	SODIUM	522	mg/Kg	J
T-6A-3	MY08X5	12/07/2001	3	Metals	N	SODIUM	416	mg/Kg	J
T-6A-3	MY08X5	12/07/2001	3	Metals	N	VANADIUM	55.3	mg/Kg	UJ
T-6A-3	MY08X6	12/07/2001	3	Metals	FD	VANADIUM	70.4	mg/Kg	UJ
T-6A-3	MY08X6	12/07/2001	3	Metals	FD	VANADIUM	70.4	mg/Kg	UJ
T-6A-3	MY08X5	12/07/2001	3	Metals	N	VANADIUM	55.3	mg/Kg	UJ
T-6A-3	MY08X5	12/07/2001	3	Metals	N	ZINC	65.2	mg/Kg	UJ
T-6A-3	MY08X6	12/07/2001	3	Metals	FD	ZINC	88.1	mg/Kg	UJ
T-6A-3	MY08X6	12/07/2001	3	Metals	FD	ZINC	88.1	mg/Kg	UJ
T-6A-3	MY08X5	12/07/2001	3	Metals	N	ZINC	65.2	mg/Kg	UJ
T-6A-3	Y0C47	12/07/2001	3	Pest/PCBs	FD	Endosulfan I	1.8	ug/Kg	UJ

Table 8-2
Chemicals Detected in the Area of the Former Above-Ground Storage Tanks

Location	Sample ID	Sample Date	Depth (ft)	Method	QA/QC Type[1]	Analyte	Result [2]	Units	Flag[3]
T-6A-3	Y0C47	12/07/2001	3	Pest/PCBs	FD	Heptachlor epoxide	1.8	ug/Kg	UJ
T-6A-3	Y0C47	12/07/2001	3	Pest/PCBs	FD	Aldrin	1.8	ug/Kg	UJ
T-6A-3	Y0C47	12/07/2001	3	Pest/PCBs	FD	Arochlor-1016	35	ug/Kg	UJ
T-6A-3	Y0C47	12/07/2001	3	Pest/PCBs	FD	Arochlor-1221	71	ug/Kg	
T-6A-3	Y0C47	12/07/2001	3	Pest/PCBs	FD	Arochlor-1242	35	ug/Kg	
T-6A-3	Y0C47	12/07/2001	3	Pest/PCBs	FD	Arochlor-1232	35	ug/Kg	
T-6A-3	Y0C47	12/07/2001	3	Pest/PCBs	FD	beta-BHC	1.8	ug/Kg	
T-6A-3	Y0C47	12/07/2001	3	Pest/PCBs	FD	delta-BHC	1.8	ug/Kg	J
T-6A-3	Y0C47	12/07/2001	3	Pest/PCBs	FD	gamma-BHC (Lindane)	1.8	ug/Kg	J
T-6A-3	Y0C47	12/07/2001	3	Pest/PCBs	FD	Heptachlor	1.8	ug/Kg	UJ
T-6A-3	Y0C47	12/07/2001	3	Pest/PCBs	FD	alpha-BHC	1.8	ug/Kg	UJ
T-6A-3	Y0C47	12/07/2001	3	Pest/PCBs	FD	Percent Solids	93	%	UJ
T-6A-3	Y0C46	12/07/2001	3	Pest/PCBs	N	Percent Solids	91	%	UJ
T-6A-3	Y0C47	12/07/2001	3	Pest/PCBs	FD	Percent Solids	76	%	UJ
T-6A-3	Y0C46	12/07/2001	3	Pest/PCBs	N	Percent Solids	77	%	
T-6A-3	Y0C46	12/07/2001	3	Pest/PCBs	N	Dieldrin	2.3	ug/Kg	
T-6A-3	Y0C46	12/07/2001	3	Pest/PCBs	N	Heptachlor epoxide	2	ug/Kg	
T-6A-3	Y0C46	12/07/2001	3	VOCs	N	Dichloromethane	12	ug/Kg	J
T-6A-3	Y0C46	12/07/2001	3	VOCs	N	Chloroethane	12	ug/Kg	J
T-6A-3	Y0C47	12/07/2001	3	VOCs	FD	Dichloromethane	11	ug/Kg	J
T-6A-3	Y0C47	12/07/2001	3	VOCs	FD	Acetone	38	ug/Kg	J
T-6A-3	Y0C47	12/07/2001	3	VOCs	FD	Chloroethane	11	ug/Kg	J
T-6A-3	Y0C46	12/07/2001	3	VOCs	N	2-Butanone	18	ug/Kg	J
T-6A-3	Y0C47	12/07/2001	3	VOCs	FD	% Moisture	24	%	J
T-6A-3	Y0C46	12/07/2001	3	VOCs	N	% Moisture	23	%	
T-6A-3	Y0C46	12/07/2001	3	VOCs	N	Acetone	150	ug/Kg	
T-6A-3	Y0C46	12/07/2001	3	VOCs	N	Dichlorodifluoromethane	1	ug/Kg	
T-6A-3	Y0C47	12/07/2001	3	VOCs	FD	Methylcyclohexane	11	ug/Kg	
T-6A-3	Y0C47	12/07/2001	3	VOCs	FD	Cyclohexane	2	ug/Kg	
T-6A-3	Y0C47	12/07/2001	3	VOCs	FD	Ethylbenzene	1	ug/Kg	
T-6A-3	Y0C47	12/07/2001	3	VOCs	FD	Chloromethane	2	ug/Kg	J
T-6A-3	Y0C47	12/07/2001	3	VOCs	FD	2-Butanone	8	ug/Kg	J
T-6A-8	39328	12/07/2001	8	8015B	N	TPH-Gasoline	18	mg/Kg	J
T-6A-8	39328	12/07/2001	8	8015B	N	TPH as Diesel	130	mg/Kg	J
T-6A-8	39328	12/07/2001	8	8015B	N	TPH as Motor Oil	100	mg/Kg	
T-6A-8	MY08X7	12/07/2001	8	Metals	N	ALUMINUM	22400	mg/Kg	J
T-6A-8	MY08X7	12/07/2001	8	Metals	N	ALUMINUM	22400	mg/Kg	J
T-6A-8	MY08X7	12/07/2001	8	Metals	N	ARSENIC	8.2	mg/Kg	
T-6A-8	MY08X7	12/07/2001	8	Metals	N	ARSENIC	8.2	mg/Kg	
T-6A-8	MY08X7	12/07/2001	8	Metals	N	BARIUM	268	mg/Kg	
T-6A-8	MY08X7	12/07/2001	8	Metals	N	BARIUM	268	mg/Kg	
T-6A-8	MY08X7	12/07/2001	8	Metals	N	BERYLLIUM	0.61	mg/Kg	
T-6A-8	MY08X7	12/07/2001	8	Metals	N	BERYLLIUM	0.61	mg/Kg	
T-6A-8	MY08X7	12/07/2001	8	Metals	N	CADMIUM	0.17	mg/Kg	
T-6A-8	MY08X7	12/07/2001	8	Metals	N	CADMIUM	0.17	mg/Kg	
T-6A-8	MY08X7	12/07/2001	8	Metals	N	CALCIUM	5590	mg/Kg	
T-6A-8	MY08X7	12/07/2001	8	Metals	N	CALCIUM	5590	mg/Kg	
T-6A-8	MY08X7	12/07/2001	8	Metals	N	CHROMIUM	118	mg/Kg	J
T-6A-8	MY08X7	12/07/2001	8	Metals	N	CHROMIUM	118	mg/Kg	J
T-6A-8	MY08X7	12/07/2001	8	Metals	N	COBALT	26.5	mg/Kg	
T-6A-8	MY08X7	12/07/2001	8	Metals	N	COBALT	26.5	mg/Kg	
T-6A-8	MY08X7	12/07/2001	8	Metals	N	COPPER	53.3	mg/Kg	J
T-6A-8	MY08X7	12/07/2001	8	Metals	N	COPPER	53.3	mg/Kg	J
T-6A-8	MY08X7	12/07/2001	8	Metals	N	IRON	41800	mg/Kg	UJ
T-6A-8	MY08X7	12/07/2001	8	Metals	N	IRON	41800	mg/Kg	
T-6A-8	MY08X7	12/07/2001	8	Metals	N	LEAD	8.7	mg/Kg	
T-6A-8	MY08X7	12/07/2001	8	Metals	N	LEAD	8.7	mg/Kg	

Table 8-2
Chemicals Detected in the Area of the Former Above-Ground Storage Tanks

Location	Sample ID	Sample Date	Depth (ft)	Method	QA/QC Type[1]	Analyte	Result [2]	Units	Flag[3]
T-6A-8	MY08X7	12/07/2001	8	Metals	N	MAGNESIUM	23200	mg/Kg	J
T-6A-8	MY08X7	12/07/2001	8	Metals	N	MAGNESIUM	23200	mg/Kg	J
T-6A-8	MY08X7	12/07/2001	8	Metals	N	MANGANESE	1090	mg/Kg	
T-6A-8	MY08X7	12/07/2001	8	Metals	N	MANGANESE	1090	mg/Kg	
T-6A-8	MY08X7	12/07/2001	8	Metals	N	MERCURY	0.047	mg/Kg	J
T-6A-8	MY08X7	12/07/2001	8	Metals	N	NICKEL	247	mg/Kg	
T-6A-8	MY08X7	12/07/2001	8	Metals	N	NICKEL	247	mg/Kg	
T-6A-8	MY08X7	12/07/2001	8	Metals	N	Percent Solids	79	mg/Kg	
T-6A-8	MY08X7	12/07/2001	8	Metals	N	POTASSIUM	2140	mg/Kg	J
T-6A-8	MY08X7	12/07/2001	8	Metals	N	POTASSIUM	2140	mg/Kg	
T-6A-8	MY08X7	12/07/2001	8	Metals	N	SELENIUM	1.6	mg/Kg	
T-6A-8	MY08X7	12/07/2001	8	Metals	N	SELENIUM	1.6	mg/Kg	UJ
T-6A-8	MY08X7	12/07/2001	8	Metals	N	SODIUM	798	mg/Kg	UJ
T-6A-8	MY08X7	12/07/2001	8	Metals	N	VANADIUM	73.9	mg/Kg	UJ
T-6A-8	MY08X7	12/07/2001	8	Metals	N	VANADIUM	73.9	mg/Kg	
T-6A-8	MY08X7	12/07/2001	8	Metals	N	ZINC	88.8	mg/Kg	J
T-6A-8	MY08X7	12/07/2001	8	Metals	N	ZINC	88.8	mg/Kg	J
T-6A-8	Y0C48	12/07/2001	8	Pest/PCBs	N	Percent Solids	94	%	J
T-6A-8	Y0C48	12/07/2001	8	Pest/PCBs	N	Percent Solids	83	%	J
T-6A-8	Y0C48	12/07/2001	8	VOCs	N	Dichloromethane	11	ug/Kg	
T-6A-8	Y0C48	12/07/2001	8	VOCs	N	Chloroethane	11	ug/Kg	
T-6A-8	Y0C48	12/07/2001	8	VOCs	N	Acetone	46	ug/Kg	
T-6A-8	Y0C48	12/07/2001	8	VOCs	N	% Moisture	17	%	
T-6A-8	Y0C48	12/07/2001	8	VOCs	N	Methylcyclohexane	5	ug/Kg	
T-6A-8	Y0C48	12/07/2001	8	VOCs	N	2-Butanone	8	ug/Kg	
T-6A-8	Y0C48	12/07/2001	8	VOCs	N	Cyclohexane	1	ug/Kg	J
T-6A-8	Y0C48	12/07/2001	8	VOCs	N	Carbon Disulfide	2	ug/Kg	
T-6A-13	39329	12/07/2001	13	8015B	N	TPH as Diesel	3500	mg/Kg	J
T-6A-13	39329	12/07/2001	13	8015B	N	TPH-Gasoline	15	mg/Kg	J
T-6A-13	39329	12/07/2001	13	8015B	N	TPH as Motor Oil	2500	mg/Kg	
T-6A-13	MY08X8	12/07/2001	13	Metals	N	ALUMINUM	17000	mg/Kg	
T-6A-13	MY08X8	12/07/2001	13	Metals	N	ALUMINUM	17000	mg/Kg	
T-6A-13	MY08X8	12/07/2001	13	Metals	N	ARSENIC	6.9	mg/Kg	
T-6A-13	MY08X8	12/07/2001	13	Metals	N	ARSENIC	6.8	mg/Kg	
T-6A-13	MY08X8	12/07/2001	13	Metals	N	BARIUM	201	mg/Kg	
T-6A-13	MY08X8	12/07/2001	13	Metals	N	BARIUM	201	mg/Kg	
T-6A-13	MY08X8	12/07/2001	13	Metals	N	BERYLLIUM	0.55	mg/Kg	
T-6A-13	MY08X8	12/07/2001	13	Metals	N	CALCIUM	6460	mg/Kg	
T-6A-13	MY08X8	12/07/2001	13	Metals	N	CALCIUM	6460	mg/Kg	
T-6A-13	MY08X8	12/07/2001	13	Metals	N	CHROMIUM	96.2	mg/Kg	J
T-6A-13	MY08X8	12/07/2001	13	Metals	N	CHROMIUM	96.2	mg/Kg	J
T-6A-13	MY08X8	12/07/2001	13	Metals	N	COBALT	22.7	mg/Kg	
T-6A-13	MY08X8	12/07/2001	13	Metals	N	COBALT	22.7	mg/Kg	
T-6A-13	MY08X8	12/07/2001	13	Metals	N	COPPER	49.6	mg/Kg	J
T-6A-13	MY08X8	12/07/2001	13	Metals	N	COPPER	49.6	mg/Kg	J
T-6A-13	MY08X8	12/07/2001	13	Metals	N	IRON	35400	mg/Kg	J
T-6A-13	MY08X8	12/07/2001	13	Metals	N	IRON	35400	mg/Kg	J
T-6A-13	MY08X8	12/07/2001	13	Metals	N	LEAD	8.8	mg/Kg	
T-6A-13	MY08X8	12/07/2001	13	Metals	N	LEAD	8.8	mg/Kg	
T-6A-13	MY08X8	12/07/2001	13	Metals	N	MAGNESIUM	23200	mg/Kg	
T-6A-13	MY08X8	12/07/2001	13	Metals	N	MAGNESIUM	23200	mg/Kg	J
T-6A-13	MY08X8	12/07/2001	13	Metals	N	MANGANESE	430	mg/Kg	J
T-6A-13	MY08X8	12/07/2001	13	Metals	N	MANGANESE	430	mg/Kg	J
T-6A-13	MY08X8	12/07/2001	13	Metals	N	MERCURY	0.11	mg/Kg	
T-6A-13	MY08X8	12/07/2001	13	Metals	N	MERCURY	0.11	mg/Kg	
T-6A-13	MY08X8	12/07/2001	13	Metals	N	NICKEL	224	mg/Kg	
T-6A-13	MY08X8	12/07/2001	13	Metals	N	NICKEL	224	mg/Kg	J

Table 8-2
Chemicals Detected in the Area of the Former Above-Ground Storage Tanks

Location	Sample ID	Sample Date	Depth (ft)	Method	QA/QC Type[1]	Analyte	Result[2]	Units	Flag[3]
T-6A-13	MY08X8	12/07/2001	13	Metals	N	Percent Solids	77.6	%	
T-6A-13	MY08X8	12/07/2001	13	Metals	N	POTASSIUM	1050	mg/Kg	
T-6A-13	MY08X8	12/07/2001	13	Metals	N	POTASSIUM	1050	mg/Kg	UJ
T-6A-13	MY08X8	12/07/2001	13	Metals	N	SODIUM	763	mg/Kg	UJ
T-6A-13	MY08X8	12/07/2001	13	Metals	N	VANADIUM	64.6	mg/Kg	UJ
T-6A-13	MY08X8	12/07/2001	13	Metals	N	VANADIUM	64.6	mg/Kg	
T-6A-13	MY08X8	12/07/2001	13	Metals	N	ZINC	81.3	mg/Kg	J
T-6A-13	MY08X8	12/07/2001	13	Metals	N	ZINC	81.3	mg/Kg	
T-6A-13	Y0C49	12/07/2001	13	Pest/PCBs	N	Percent Solids	79	%	J
T-6A-13	Y0C49	12/07/2001	13	Pest/PCBs	N	Percent Solids	97	%	UJ
T-6A-13	Y0C49	12/07/2001	13	VOCs	N	Acetone	18	ug/Kg	
T-6A-13	Y0C49	12/07/2001	13	VOCs	N	Chloroethane	11	ug/Kg	
T-6A-13	Y0C49	12/07/2001	13	VOCs	N	Dichloromethane	11	ug/Kg	
T-6A-13	Y0C49	12/07/2001	13	VOCs	N	% Moisture	21	%	
T-6A-13	Y0C49	12/07/2001	13	VOCs	N	Dichlorodifluoromethane	1	ug/Kg	
T-6A-18	39330	12/07/2001	18	8015B	N	TPH as Diesel	50	mg/Kg	J
T-6A-18	39330	12/07/2001	18	8015B	N	T P H-Gasoline	15	mg/Kg	J
T-6A-18	39330	12/07/2001	18	8015B	N	TPH as Motor Oil	40	mg/Kg	
T-6A-18	Y0C50	12/07/2001	18	VOCs	N	% Moisture	19	%	
T-6A-18	Y0C50	12/07/2001	18	VOCs	N	2-Butanone	4	ug/Kg	J
T-6A-18	Y0C50	12/07/2001	18	VOCs	N	Acetone	25	ug/Kg	J
T-6A-18	MY08X9	12/07/2001	18	Metals	N	ALUMINUM	16100	mg/Kg	
T-6A-18	MY08X9	12/07/2001	18	Metals	N	ALUMINUM	16100	mg/Kg	
T-6A-18	MY08X9	12/07/2001	18	Metals	N	ARSENIC	8	mg/Kg	J
T-6A-18	MY08X9	12/07/2001	18	Metals	N	ARSENIC	8	mg/Kg	UJ
T-6A-18	MY08X9	12/07/2001	18	Metals	N	BARIUM	212	mg/Kg	J
T-6A-18	MY08X9	12/07/2001	18	Metals	N	BARIUM	212	mg/Kg	
T-6A-18	MY08X9	12/07/2001	18	Metals	N	BERYLLIUM	0.46	mg/Kg	
T-6A-18	MY08X9	12/07/2001	18	Metals	N	BERYLLIUM	0.46	mg/Kg	
T-6A-18	MY08X9	12/07/2001	18	Metals	N	CALCIUM	2190	mg/Kg	
T-6A-18	MY08X9	12/07/2001	18	Metals	N	CALCIUM	2190	mg/Kg	
T-6A-18	Y0C50	12/07/2001	18	VOCs	N	Carbon Disulfide	1	ug/Kg	
T-6A-18	Y0C50	12/07/2001	18	VOCs	N	Chloroethane	12	ug/Kg	J
T-6A-18	Y0C50	12/07/2001	18	VOCs	N	Chloromethane	2	ug/Kg	UJ
T-6A-18	MY08X9	12/07/2001	18	Metals	N	CHROMIUM	81.8	mg/Kg	
T-6A-18	MY08X9	12/07/2001	18	Metals	N	CHROMIUM	81.8	mg/Kg	
T-6A-18	MY08X9	12/07/2001	18	Metals	N	COBALT	19.5	mg/Kg	J
T-6A-18	MY08X9	12/07/2001	18	Metals	N	COBALT	19.5	mg/Kg	J
T-6A-18	MY08X9	12/07/2001	18	Metals	N	COPPER	47.9	mg/Kg	
T-6A-18	MY08X9	12/07/2001	18	Metals	N	COPPER	47.9	mg/Kg	
T-6A-18	Y0C50	12/07/2001	18	VOCs	N	Dichlorodifluoromethane	1	ug/Kg	J
T-6A-18	Y0C50	12/07/2001	18	VOCs	N	Dichloromethane	12	ug/Kg	J
T-6A-18	MY08X9	12/07/2001	18	Metals	N	IRON	34900	mg/Kg	UJ
T-6A-18	MY08X9	12/07/2001	18	Metals	N	IRON	34800	mg/Kg	
T-6A-18	MY08X9	12/07/2001	18	Metals	N	LEAD	7.5	mg/Kg	
T-6A-18	MY08X9	12/07/2001	18	Metals	N	LEAD	7.5	mg/Kg	
T-6A-18	MY08X9	12/07/2001	18	Metals	N	MAGNESIUM	15800	mg/Kg	
T-6A-18	MY08X9	12/07/2001	18	Metals	N	MAGNESIUM	15800	mg/Kg	
T-6A-18	MY08X9	12/07/2001	18	Metals	N	MANGANESE	661	mg/Kg	J
T-6A-18	MY08X9	12/07/2001	18	Metals	N	MANGANESE	661	mg/Kg	J
T-6A-18	MY08X9	12/07/2001	18	Metals	N	MERCURY	0.039	mg/Kg	
T-6A-18	MY08X9	12/07/2001	18	Metals	N	NICKEL	176	mg/Kg	
T-6A-18	MY08X9	12/07/2001	18	Metals	N	NICKEL	176	mg/Kg	J
T-6A-18	MY08X9	12/07/2001	18	Metals	N	Percent Solids	94.4	%	
T-6A-18	Y0C50	12/07/2001	18	Pest/PCBs	N	Percent Solids	81	%	
T-6A-18	Y0C50	12/07/2001	18	Pest/PCBs	N	Percent Solids	97	%	
T-6A-18	MY08X9	12/07/2001	18	Metals	N	POTASSIUM	1430	mg/Kg	J

Table 8-2
Chemicals Detected in the Area of the Former Above-Ground Storage Tanks

Location	Sample ID	Sample Date	Depth (ft)	Method	QA/QC Type[1]	Analyte	Result[2]	Units	Flag[3]
T-6A-18	MY08X9	12/07/2001	18	Metals	N	POTASSIUM	1430	mg/Kg	
T-6A-18	MY08X9	12/07/2001	18	Metals	N	SELENIUM	1	mg/Kg	
T-6A-18	MY08X9	12/07/2001	18	Metals	N	SELENIUM	1	mg/Kg	
T-6A-18	MY08X9	12/07/2001	18	Metals	N	SODIUM	662	mg/Kg	
T-6A-18	MY08X9	12/07/2001	18	Metals	N	VANADIUM	61.3	mg/Kg	
T-6A-18	MY08X9	12/07/2001	18	Metals	N	VANADIUM	61.3	mg/Kg	
T-6A-18	MY08X9	12/07/2001	18	Metals	N	ZINC	76.2	mg/Kg	J
T-6A-18	MY08X9	12/07/2001	18	Metals	N	ZINC	76.2	mg/Kg	J
T-6A-23	39331	12/07/2001	23	8015B	N	TPH-Gasoline	9	mg/Kg	J
T-6A-23	39331	12/07/2001	23	8015B	N	TPH as Diesel	97	mg/Kg	
T-6A-23	39331	12/07/2001	23	8015B	N	TPH as Motor Oil	90	mg/Kg	
T-6A-23	MY08Y0	12/07/2001	23	Metals	N	ALUMINUM	16500	mg/Kg	
T-6A-23	MY08Y0	12/07/2001	23	Metals	N	ALUMINUM	16500	mg/Kg	
T-6A-23	MY08Y0	12/07/2001	23	Metals	N	ARSENIC	6.1	mg/Kg	
T-6A-23	MY08Y0	12/07/2001	23	Metals	N	ARSENIC	6.1	mg/Kg	
T-6A-23	MY08Y0	12/07/2001	23	Metals	N	BARIUM	225	mg/Kg	
T-6A-23	MY08Y0	12/07/2001	23	Metals	N	BARIUM	225	mg/Kg	
T-6A-23	MY08Y0	12/07/2001	23	Metals	N	BERYLLIUM	0.45	mg/Kg	
T-6A-23	MY08Y0	12/07/2001	23	Metals	N	BERYLLIUM	0.45	mg/Kg	
T-6A-23	MY08Y0	12/07/2001	23	Metals	N	CALCIUM	2200	mg/Kg	
T-6A-23	MY08Y0	12/07/2001	23	Metals	N	CALCIUM	2200	mg/Kg	
T-6A-23	MY08Y0	12/07/2001	23	Metals	N	CHROMIUM	80.6	mg/Kg	J
T-6A-23	MY08Y0	12/07/2001	23	Metals	N	CHROMIUM	80.6	mg/Kg	J
T-6A-23	MY08Y0	12/07/2001	23	Metals	N	COBALT	21.2	mg/Kg	
T-6A-23	MY08Y0	12/07/2001	23	Metals	N	COBALT	21.2	mg/Kg	
T-6A-23	MY08Y0	12/07/2001	23	Metals	N	COPPER	47.5	mg/Kg	J
T-6A-23	MY08Y0	12/07/2001	23	Metals	N	COPPER	47.5	mg/Kg	J
T-6A-23	MY08Y0	12/07/2001	23	Metals	N	IRON	31900	mg/Kg	UJ
T-6A-23	MY08Y0	12/07/2001	23	Metals	N	IRON	31900	mg/Kg	
T-6A-23	MY08Y0	12/07/2001	23	Metals	N	LEAD	8.3	mg/Kg	
T-6A-23	MY08Y0	12/07/2001	23	Metals	N	LEAD	8.3	mg/Kg	
T-6A-23	MY08Y0	12/07/2001	23	Metals	N	MAGNESIUM	17200	mg/Kg	J
T-6A-23	MY08Y0	12/07/2001	23	Metals	N	MAGNESIUM	17200	mg/Kg	J
T-6A-23	MY08Y0	12/07/2001	23	Metals	N	MANGANESE	519	mg/Kg	J
T-6A-23	MY08Y0	12/07/2001	23	Metals	N	MANGANESE	519	mg/Kg	
T-6A-23	MY08Y0	12/07/2001	23	Metals	N	MERCURY	0.06	mg/Kg	
T-6A-23	MY08Y0	12/07/2001	23	Metals	N	NICKEL	186	mg/Kg	
T-6A-23	MY08Y0	12/07/2001	23	Metals	N	NICKEL	186	mg/Kg	J
T-6A-23	MY08Y0	12/07/2001	23	Metals	N	Percent Solids	79.6	%	
T-6A-23	MY08Y0	12/07/2001	23	Metals	N	POTASSIUM	1240	mg/Kg	
T-6A-23	MY08Y0	12/07/2001	23	Metals	N	POTASSIUM	1240	mg/Kg	UJ
T-6A-23	MY08Y0	12/07/2001	23	Metals	N	SODIUM	772	mg/Kg	UJ
T-6A-23	MY08Y0	12/07/2001	23	Metals	N	VANADIUM	65.3	mg/Kg	UJ
T-6A-23	MY08Y0	12/07/2001	23	Metals	N	VANADIUM	65.3	mg/Kg	
T-6A-23	MY08Y0	12/07/2001	23	Metals	N	ZINC	76.6	mg/Kg	J
T-6A-23	MY08Y0	12/07/2001	23	Metals	N	ZINC	76.6	mg/Kg	
T-6A-23	Y0C51	12/07/2001	23	Pest/PCBs	N	Percent Solids	80	%	
T-6A-23	Y0C51	12/07/2001	23	Pest/PCBs	N	Percent Solids	93	%	
T-6A-23	Y0C51	12/07/2001	23	VOCs	N	Acetone	22	ug/Kg	
T-6A-23	Y0C51	12/07/2001	23	VOCs	N	Dichloromethane	11	ug/Kg	
T-6A-23	Y0C51	12/07/2001	23	VOCs	N	Chloroethane	11	ug/Kg	
T-6A-23	Y0C51	12/07/2001	23	VOCs	N	% Moisture	20	%	J
T-6A-23	Y0C51	12/07/2001	23	VOCs	N	2-Butanone	3	ug/Kg	J
T-6A-28	39332	12/07/2001	28	8015B	N	TPH as Diesel	800	mg/Kg	J
T-6A-28	39332	12/07/2001	28	8015B	N	TPH-Gasoline	45	mg/Kg	J
T-6A-28	39332	12/07/2001	28	8015B	N	TPH as Motor Oil	600	mg/Kg	
T-6A-28	MY08Y1	12/07/2001	28	Metals	N	ALUMINUM	15200	mg/Kg	

Table 8-2
Chemicals Detected in the Area of the Former Above-Ground Storage Tanks

Location	Sample ID	Sample Date	Depth (ft)	Method	QA/QC Type[1]	Analyte	Result[2]	Units	Flag[3]
T-6A-28	MY08Y1	12/07/2001	28	Metals	N	ALUMINUM	15200	mg/Kg	
T-6A-28	MY08Y1	12/07/2001	28	Metals	N	ARSENIC	7.1	mg/Kg	
T-6A-28	MY08Y1	12/07/2001	28	Metals	N	ARSENIC	7.1	mg/Kg	
T-6A-28	MY08Y1	12/07/2001	28	Metals	N	BARIUM	214	mg/Kg	
T-6A-28	MY08Y1	12/07/2001	28	Metals	N	BARIUM	214	mg/Kg	
T-6A-28	MY08Y1	12/07/2001	28	Metals	N	BERYLLIUM	0.43	mg/Kg	
T-6A-28	MY08Y1	12/07/2001	28	Metals	N	BERYLLIUM	0.43	mg/Kg	
T-6A-28	MY08Y1	12/07/2001	28	Metals	N	CALCIUM	2760	mg/Kg	
T-6A-28	MY08Y1	12/07/2001	28	Metals	N	CALCIUM	2760	mg/Kg	
T-6A-28	MY08Y1	12/07/2001	28	Metals	N	CHROMIUM	84.7	mg/Kg	J
T-6A-28	MY08Y1	12/07/2001	28	Metals	N	CHROMIUM	84.7	mg/Kg	J
T-6A-28	MY08Y1	12/07/2001	28	Metals	N	COBALT	27.1	mg/Kg	
T-6A-28	MY08Y1	12/07/2001	28	Metals	N	COBALT	27.1	mg/Kg	
T-6A-28	MY08Y1	12/07/2001	28	Metals	N	COPPER	44.3	mg/Kg	J
T-6A-28	MY08Y1	12/07/2001	28	Metals	N	COPPER	44.3	mg/Kg	J
T-6A-28	MY08Y1	12/07/2001	28	Metals	N	IRON	32600	mg/Kg	J
T-6A-28	MY08Y1	12/07/2001	28	Metals	N	IRON	32600	mg/Kg	J
T-6A-28	MY08Y1	12/07/2001	28	Metals	N	LEAD	15.3	mg/Kg	
T-6A-28	MY08Y1	12/07/2001	28	Metals	N	LEAD	15.3	mg/Kg	
T-6A-28	MY08Y1	12/07/2001	28	Metals	N	MAGNESIUM	17000	mg/Kg	
T-6A-28	MY08Y1	12/07/2001	28	Metals	N	MAGNESIUM	17000	mg/Kg	J
T-6A-28	MY08Y1	12/07/2001	28	Metals	N	MANGANESE	934	mg/Kg	J
T-6A-28	MY08Y1	12/07/2001	28	Metals	N	MANGANESE	934	mg/Kg	J
T-6A-28	MY08Y1	12/07/2001	28	Metals	N	MERCURY	0.06	mg/Kg	
T-6A-28	MY08Y1	12/07/2001	28	Metals	N	MERCURY	0.059	mg/Kg	
T-6A-28	MY08Y1	12/07/2001	28	Metals	N	NICKEL	186	mg/Kg	
T-6A-28	MY08Y1	12/07/2001	28	Metals	N	NICKEL	186	mg/Kg	J
T-6A-28	MY08Y1	12/07/2001	28	Metals	N	Percent Solids	78.4	%	
T-6A-28	MY08Y1	12/07/2001	28	Metals	N	POTASSIUM	1180	mg/Kg	
T-6A-28	MY08Y1	12/07/2001	28	Metals	N	POTASSIUM	1180	mg/Kg	J
T-6A-28	MY08Y1	12/07/2001	28	Metals	N	SODIUM	662	mg/Kg	J
T-6A-28	MY08Y1	12/07/2001	28	Metals	N	VANADIUM	61.2	mg/Kg	J
T-6A-28	MY08Y1	12/07/2001	28	Metals	N	VANADIUM	61.2	mg/Kg	UJ
T-6A-28	MY08Y1	12/07/2001	28	Metals	N	ZINC	75.4	mg/Kg	UJ
T-6A-28	MY08Y1	12/07/2001	28	Metals	N	ZINC	75.4	mg/Kg	UJ
T-6A-28	Y0C52	12/07/2001	28	Pest/PCBs	N	Percent Solids	78	%	
T-6A-28	Y0C52	12/07/2001	28	Pest/PCBs	N	Percent Solids	88	%	J
T-6A-28	Y0C52	12/07/2001	28	Pest/PCBs	N	Aldrin	1.3	ug/Kg	J
T-6A-28	Y0C52	12/07/2001	28	Pest/PCBs	N	Dieldrin	2.3	ug/Kg	J
T-6A-28	Y0C52	12/07/2001	28	Pest/PCBs	N	4,4'-DDT	4.2	ug/Kg	J
T-6A-28	Y0C52	12/07/2001	28	VOCs	N	Dichloromethane	12	ug/Kg	J
T-6A-28	Y0C52	12/07/2001	28	VOCs	N	Acetone	30	ug/Kg	
T-6A-28	Y0C52	12/07/2001	28	VOCs	N	Chloroethane	12	ug/Kg	
T-6A-28	Y0C52	12/07/2001	28	VOCs	N	% Moisture	22	%	
T-6A-28	Y0C52	12/07/2001	28	VOCs	N	Isopropylbenzene	5	ug/Kg	
T-6A-28	Y0C52	12/07/2001	28	VOCs	N	2-Butanone	6	ug/Kg	
T-6A-28	Y0C52	12/07/2001	28	VOCs	N	Carbon Disulfide	2	ug/Kg	
T-6A-28	Y0C52	12/07/2001	28	VOCs	N	Chloromethane	5	ug/Kg	J
T-6A-28	Y0C52	12/07/2001	28	VOCs	N	Methylcyclohexane	7	ug/Kg	J
T-6B-3	39333	12/07/2001	3	8015B	N	TPH as Diesel	5	mg/Kg	J
T-6B-3	39333	12/07/2001	3	8015B	N	TPH-Gasoline	4	mg/Kg	J
T-6B-3	39333	12/07/2001	3	8015B	N	TPH as Motor Oil	20	mg/Kg	
T-6B-3	MY08Y2	12/07/2001	3	Metals	N	ALUMINUM	15100	mg/Kg	
T-6B-3	MY08Y2	12/07/2001	3	Metals	N	ALUMINUM	15100	mg/Kg	
T-6B-3	MY08Y2	12/07/2001	3	Metals	N	ARSENIC	5.4	mg/Kg	
T-6B-3	MY08Y2	12/07/2001	3	Metals	N	ARSENIC	5.4	mg/Kg	
T-6B-3	MY08Y2	12/07/2001	3	Metals	N	BARIUM	181	mg/Kg	

Table 8-2
Chemicals Detected in the Area of the Former Above-Ground Storage Tanks

Location	Sample ID	Sample Date	Depth (ft)	Method	QA/QC Type[1]	Analyte	Result[2]	Units	Flag[3]
T-6B-3	MY08Y2	12/07/2001	3	Metals	N	BARIUM	181	mg/Kg	
T-6B-3	MY08Y2	12/07/2001	3	Metals	N	BERYLLIUM	0.42	mg/Kg	
T-6B-3	MY08Y2	12/07/2001	3	Metals	N	BERYLLIUM	0.42	mg/Kg	
T-6B-3	MY08Y2	12/07/2001	3	Metals	N	CALCIUM	3600	mg/Kg	
T-6B-3	MY08Y2	12/07/2001	3	Metals	N	CALCIUM	3600	mg/Kg	
T-6B-3	MY08Y2	12/07/2001	3	Metals	N	CHROMIUM	89.1	mg/Kg	J
T-6B-3	MY08Y2	12/07/2001	3	Metals	N	CHROMIUM	89	mg/Kg	J
T-6B-3	MY08Y2	12/07/2001	3	Metals	N	COBALT	20.9	mg/Kg	
T-6B-3	MY08Y2	12/07/2001	3	Metals	N	COBALT	20.9	mg/Kg	
T-6B-3	MY08Y2	12/07/2001	3	Metals	N	COPPER	43.2	mg/Kg	J
T-6B-3	MY08Y2	12/07/2001	3	Metals	N	COPPER	43.2	mg/Kg	J
T-6B-3	MY08Y2	12/07/2001	3	Metals	N	IRON	31600	mg/Kg	
T-6B-3	MY08Y2	12/07/2001	3	Metals	N	IRON	31600	mg/Kg	J
T-6B-3	MY08Y2	12/07/2001	3	Metals	N	LEAD	6.6	mg/Kg	
T-6B-3	MY08Y2	12/07/2001	3	Metals	N	LEAD	6.6	mg/Kg	
T-6B-3	MY08Y2	12/07/2001	3	Metals	N	MAGNESIUM	17100	mg/Kg	
T-6B-3	MY08Y2	12/07/2001	3	Metals	N	MAGNESIUM	17100	mg/Kg	J
T-6B-3	MY08Y2	12/07/2001	3	Metals	N	MANGANESE	990	mg/Kg	J
T-6B-3	MY08Y2	12/07/2001	3	Metals	N	MANGANESE	990	mg/Kg	
T-6B-3	MY08Y2	12/07/2001	3	Metals	N	MERCURY	0.1	mg/Kg	
T-6B-3	MY08Y2	12/07/2001	3	Metals	N	MERCURY	0.1	mg/Kg	J
T-6B-3	MY08Y2	12/07/2001	3	Metals	N	NICKEL	205	mg/Kg	
T-6B-3	MY08Y2	12/07/2001	3	Metals	N	NICKEL	204	mg/Kg	
T-6B-3	MY08Y2	12/07/2001	3	Metals	N	Percent Solids	95.1	%	
T-6B-3	MY08Y2	12/07/2001	3	Metals	N	POTASSIUM	1070	mg/Kg	J
T-6B-3	MY08Y2	12/07/2001	3	Metals	N	POTASSIUM	1070	mg/Kg	
T-6B-3	MY08Y2	12/07/2001	3	Metals	N	SELENIUM	1.1	mg/Kg	
T-6B-3	MY08Y2	12/07/2001	3	Metals	N	SELENIUM	1.1	mg/Kg	
T-6B-3	MY08Y2	12/07/2001	3	Metals	N	SODIUM	458	mg/Kg	UJ
T-6B-3	MY08Y2	12/07/2001	3	Metals	N	VANADIUM	54.9	mg/Kg	UJ
T-6B-3	MY08Y2	12/07/2001	3	Metals	N	VANADIUM	54.9	mg/Kg	UJ
T-6B-3	MY08Y2	12/07/2001	3	Metals	N	ZINC	69.6	mg/Kg	
T-6B-3	MY08Y2	12/07/2001	3	Metals	N	ZINC	69.6	mg/Kg	J
T-6B-3	Y0C53	12/07/2001	3	Pest/PCBs	N	Percent Solids	76	%	
T-6B-3	Y0C53	12/07/2001	3	Pest/PCBs	N	Percent Solids	90	%	
T-6B-3	Y0C53	12/07/2001	3	Pest/PCBs	N	4,4'-DDE	5.5	ug/Kg	
T-6B-3	Y0C53	12/07/2001	3	VOCs	N	Chloroethane	11	ug/Kg	
T-6B-3	Y0C53	12/07/2001	3	VOCs	N	Acetone	31	ug/Kg	
T-6B-3	Y0C53	12/07/2001	3	VOCs	N	Dichloromethane	11	ug/Kg	
T-6B-3	Y0C53	12/07/2001	3	VOCs	N	% Moisture	24	%	J
T-6B-3	Y0C53	12/07/2001	3	VOCs	N	2-Butanone	4	ug/Kg	J
T-6B-8	39334	12/07/2001	8	8015B	N	TPH-Gasoline	4	mg/Kg	J
T-6B-8	39334	12/07/2001	8	8015B	N	TPH as Diesel	6	mg/Kg	J
T-6B-8	39334	12/07/2001	8	8015B	N	TPH as Motor Oil	20	mg/Kg	
T-6B-8	MY08Y3	12/07/2001	8	Metals	N	ALUMINUM	21400	mg/Kg	J
T-6B-8	MY08Y3	12/07/2001	8	Metals	N	ALUMINUM	21400	mg/Kg	J
T-6B-8	MY08Y3	12/07/2001	8	Metals	N	ARSENIC	5.9	mg/Kg	
T-6B-8	MY08Y3	12/07/2001	8	Metals	N	ARSENIC	5.9	mg/Kg	
T-6B-8	MY08Y3	12/07/2001	8	Metals	N	BARIUM	231	mg/Kg	
T-6B-8	MY08Y3	12/07/2001	8	Metals	N	BARIUM	231	mg/Kg	
T-6B-8	MY08Y3	12/07/2001	8	Metals	N	BERYLLIUM	0.57	mg/Kg	
T-6B-8	MY08Y3	12/07/2001	8	Metals	N	BERYLLIUM	0.57	mg/Kg	
T-6B-8	MY08Y3	12/07/2001	8	Metals	N	CADMIUM	0.16	mg/Kg	
T-6B-8	MY08Y3	12/07/2001	8	Metals	N	CADMIUM	0.16	mg/Kg	
T-6B-8	MY08Y3	12/07/2001	8	Metals	N	CALCIUM	4680	mg/Kg	
T-6B-8	MY08Y3	12/07/2001	8	Metals	N	CALCIUM	4680	mg/Kg	
T-6B-8	MY08Y3	12/07/2001	8	Metals	N	CHROMIUM	107	mg/Kg	J

Table 8-2
Chemicals Detected in the Area of the Former Above-Ground Storage Tanks

Location	Sample ID	Sample Date	Depth (ft)	Method	QA/QC Type[1]	Analyte	Result[2]	Units	Flag[3]
T-6B-8	MY08Y3	12/07/2001	8	Metals	N	CHROMIUM	106	mg/Kg	J
T-6B-8	MY08Y3	12/07/2001	8	Metals	N	COBALT	27.3	mg/Kg	
T-6B-8	MY08Y3	12/07/2001	8	Metals	N	COBALT	27.3	mg/Kg	
T-6B-8	MY08Y3	12/07/2001	8	Metals	N	COPPER	52.2	mg/Kg	J
T-6B-8	MY08Y3	12/07/2001	8	Metals	N	COPPER	52.2	mg/Kg	J
T-6B-8	MY08Y3	12/07/2001	8	Metals	N	IRON	39200	mg/Kg	J
T-6B-8	MY08Y3	12/07/2001	8	Metals	N	IRON	39200	mg/Kg	J
T-6B-8	MY08Y3	12/07/2001	8	Metals	N	LEAD	8.6	mg/Kg	
T-6B-8	MY08Y3	12/07/2001	8	Metals	N	LEAD	8.6	mg/Kg	
T-6B-8	MY08Y3	12/07/2001	8	Metals	N	MAGNESIUM	21100	mg/Kg	
T-6B-8	MY08Y3	12/07/2001	8	Metals	N	MAGNESIUM	21100	mg/Kg	J
T-6B-8	MY08Y3	12/07/2001	8	Metals	N	MANGANESE	1350	mg/Kg	J
T-6B-8	MY08Y3	12/07/2001	8	Metals	N	MANGANESE	1350	mg/Kg	
T-6B-8	MY08Y3	12/07/2001	8	Metals	N	MERCURY	0.05	mg/Kg	
T-6B-8	MY08Y3	12/07/2001	8	Metals	N	MERCURY	0.051	mg/Kg	J
T-6B-8	MY08Y3	12/07/2001	8	Metals	N	NICKEL	232	mg/Kg	
T-6B-8	MY08Y3	12/07/2001	8	Metals	N	NICKEL	232	mg/Kg	
T-6B-8	MY08Y3	12/07/2001	8	Metals	N	Percent Solids	76.1	%	
T-6B-8	MY08Y3	12/07/2001	8	Metals	N	POTASSIUM	2000	mg/Kg	J
T-6B-8	MY08Y3	12/07/2001	8	Metals	N	POTASSIUM	2000	mg/Kg	
T-6B-8	MY08Y3	12/07/2001	8	Metals	N	SELENIUM	1.7	mg/Kg	
T-6B-8	MY08Y3	12/07/2001	8	Metals	N	SELENIUM	1.7	mg/Kg	
T-6B-8	MY08Y3	12/07/2001	8	Metals	N	SODIUM	1080	mg/Kg	
T-6B-8	MY08Y3	12/07/2001	8	Metals	N	VANADIUM	74.9	mg/Kg	
T-6B-8	MY08Y3	12/07/2001	8	Metals	N	VANADIUM	74.9	mg/Kg	
T-6B-8	MY08Y3	12/07/2001	8	Metals	N	ZINC	87.8	mg/Kg	
T-6B-8	MY08Y3	12/07/2001	8	Metals	N	ZINC	87.8	mg/Kg	
T-6B-8	Y0C54	12/07/2001	8	Pest/PCBs	N	Aldrin	13	ug/Kg	
T-6B-8	Y0C54	12/07/2001	8	Pest/PCBs	N	Dieldrin	22	ug/Kg	
T-6B-8	Y0C54	12/07/2001	8	Pest/PCBs	N	Percent Solids	76	%	J
T-6B-8	Y0C54	12/07/2001	8	Pest/PCBs	N	Dieldrin	14	ug/Kg	UJ
T-6B-8	Y0C54	12/07/2001	8	Pest/PCBs	N	gamma-BHC (Lindane)	6.3	ug/Kg	UJ
T-6B-8	Y0C54	12/07/2001	8	Pest/PCBs	N	Endrin	16	ug/Kg	UJ
T-6B-8	Y0C54	12/07/2001	8	Pest/PCBs	N	4,4'-DDT	14	ug/Kg	
T-6B-8	Y0C54	12/07/2001	8	Pest/PCBs	N	Heptachlor	6.4	ug/Kg	J
T-6B-8	Y0C54	12/07/2001	8	Pest/PCBs	N	Aldrin	5.9	ug/Kg	UJ
T-6B-8	Y0C54	12/07/2001	8	Pest/PCBs	N	Percent Solids	91	%	
T-6B-8	Y0C54	12/07/2001	8	Pest/PCBs	N	4,4'-DDT	2.3	ug/Kg	
T-6B-8	Y0C54	12/07/2001	8	VOCs	N	Dichloromethane	12	ug/Kg	
T-6B-8	Y0C54	12/07/2001	8	VOCs	N	Chloroethane	12	ug/Kg	
T-6B-8	Y0C54	12/07/2001	8	VOCs	N	Acetone	32	ug/Kg	
T-6B-8	Y0C54	12/07/2001	8	VOCs	N	% Moisture	24	%	
T-6B-8	Y0C54	12/07/2001	8	VOCs	N	2-Butanone	6	ug/Kg	
T-6B-13	39335	12/07/2001	13	8015B	N	TPH as Diesel	3	mg/Kg	J
T-6B-13	39335	12/07/2001	13	8015B	N	TPH-Gasoline	4	mg/Kg	J
T-6B-13	39335	12/07/2001	13	8015B	N	TPH as Motor Oil	20	mg/Kg	
T-6B-13	MY08Y6	12/07/2001	13	Metals	N	MERCURY	0.062	mg/Kg	
T-6B-13	MY08Y6	12/07/2001	13	Metals	N	CHROMIUM	90.1	mg/Kg	
T-6B-13	MY08Y4	12/07/2001	13	Metals	N	BARIUM	202	mg/Kg	
T-6B-13	MY08Y6	12/07/2001	13	Metals	N	BARIUM	125	mg/Kg	
T-6B-13	MY08Y6	12/07/2001	13	Metals	N	ALUMINUM	17000	mg/Kg	
T-6B-13	MY08Y4	12/07/2001	13	Metals	N	CHROMIUM	115	mg/Kg	
T-6B-13	MY08Y4	12/07/2001	13	Metals	N	ALUMINUM	16100	mg/Kg	
T-6B-13	MY08Y6	12/07/2001	13	Metals	N	COPPER	49.3	mg/Kg	
T-6B-13	MY08Y6	12/07/2001	13	Metals	N	MAGNESIUM	19800	mg/Kg	
T-6B-13	MY08Y4	12/07/2001	13	Metals	N	IRON	35300	mg/Kg	
T-6B-13	MY08Y4	12/07/2001	13	Metals	N	MAGNESIUM	23900	mg/Kg	

Table 8-2
Chemicals Detected in the Area of the Former Above-Ground Storage Tanks

Location	Sample ID	Sample Date	Depth (ft)	Method	QA/QC Type[1]	Analyte	Result[2]	Units	Flag[3]
T-6B-13	MY08Y6	12/07/2001	13	Metals	N	VANADIUM	64.5	mg/Kg	
T-6B-13	MY08Y4	12/07/2001	13	Metals	N	VANADIUM	63.3	mg/Kg	
T-6B-13	MY08Y6	12/07/2001	13	Metals	N	ZINC	80.8	mg/Kg	
T-6B-13	MY08Y4	12/07/2001	13	Metals	N	COPPER	41.3	mg/Kg	
T-6B-13	MY08Y4	12/07/2001	13	Metals	N	CALCIUM	6420	mg/Kg	
T-6B-13	MY08Y6	12/07/2001	13	Metals	N	CALCIUM	2340	mg/Kg	
T-6B-13	MY08Y6	12/07/2001	13	Metals	N	NICKEL	215	mg/Kg	
T-6B-13	MY08Y6	12/07/2001	13	Metals	N	IRON	36200	mg/Kg	
T-6B-13	MY08Y4	12/07/2001	13	Metals	N	NICKEL	237	mg/Kg	
T-6B-13	MY08Y4	12/07/2001	13	Metals	N	ZINC	69.5	mg/Kg	
T-6B-13	MY08Y6	12/07/2001	13	Metals	N	ARSENIC	8.3	mg/Kg	
T-6B-13	MY08Y4	12/07/2001	13	Metals	N	ARSENIC	7.2	mg/Kg	
T-6B-13	MY08Y6	12/07/2001	13	Metals	N	COBALT	22.8	mg/Kg	
T-6B-13	MY08Y4	12/07/2001	13	Metals	N	COBALT	20.8	mg/Kg	
T-6B-13	MY08Y6	12/07/2001	13	Metals	N	IRON	36200	mg/Kg	J
T-6B-13	MY08Y4	12/07/2001	13	Metals	N	Percent Solids	80.6	%	J
T-6B-13	MY08Y6	12/07/2001	13	Metals	N	ALUMINUM	17000	mg/Kg	J
T-6B-13	MY08Y4	12/07/2001	13	Metals	N	ALUMINUM	16100	mg/Kg	J
T-6B-13	MY08Y6	12/07/2001	13	Metals	N	ARSENIC	8.3	mg/Kg	
T-6B-13	MY08Y4	12/07/2001	13	Metals	N	ARSENIC	7.2	mg/Kg	
T-6B-13	MY08Y6	12/07/2001	13	Metals	N	BARIUM	125	mg/Kg	
T-6B-13	MY08Y4	12/07/2001	13	Metals	N	BARIUM	202	mg/Kg	
T-6B-13	MY08Y4	12/07/2001	13	Metals	N	BERYLLIUM	0.45	mg/Kg	
T-6B-13	MY08Y6	12/07/2001	13	Metals	N	BERYLLIUM	0.48	mg/Kg	
T-6B-13	MY08Y4	12/07/2001	13	Metals	N	BERYLLIUM	0.45	mg/Kg	
T-6B-13	MY08Y6	12/07/2001	13	Metals	N	BERYLLIUM	0.48	mg/Kg	
T-6B-13	MY08Y6	12/07/2001	13	Metals	N	CALCIUM	2340	mg/Kg	
T-6B-13	MY08Y4	12/07/2001	13	Metals	N	CALCIUM	6420	mg/Kg	J
T-6B-13	MY08Y6	12/07/2001	13	Metals	N	CHROMIUM	90.1	mg/Kg	J
T-6B-13	MY08Y4	12/07/2001	13	Metals	N	CHROMIUM	115	mg/Kg	J
T-6B-13	MY08Y6	12/07/2001	13	Metals	N	COBALT	22.8	mg/Kg	J
T-6B-13	MY08Y4	12/07/2001	13	Metals	N	COBALT	20.8	mg/Kg	
T-6B-13	MY08Y6	12/07/2001	13	Metals	N	COPPER	49.3	mg/Kg	
T-6B-13	MY08Y4	12/07/2001	13	Metals	N	COPPER	41.3	mg/Kg	J
T-6B-13	MY08Y4	12/07/2001	13	Metals	N	IRON	35300	mg/Kg	J
T-6B-13	MY08Y6	12/07/2001	13	Metals	N	LEAD	7.8	mg/Kg	J
T-6B-13	MY08Y4	12/07/2001	13	Metals	N	LEAD	7.4	mg/Kg	J
T-6B-13	MY08Y6	12/07/2001	13	Metals	N	LEAD	7.8	mg/Kg	J
T-6B-13	MY08Y4	12/07/2001	13	Metals	N	LEAD	7.4	mg/Kg	J
T-6B-13	MY08Y6	12/07/2001	13	Metals	N	MAGNESIUM	19800	mg/Kg	
T-6B-13	MY08Y4	12/07/2001	13	Metals	N	MAGNESIUM	23900	mg/Kg	
T-6B-13	MY08Y4	12/07/2001	13	Metals	N	MANGANESE	822	mg/Kg	
T-6B-13	MY08Y6	12/07/2001	13	Metals	N	MANGANESE	768	mg/Kg	J
T-6B-13	MY08Y6	12/07/2001	13	Metals	N	MANGANESE	768	mg/Kg	J
T-6B-13	MY08Y4	12/07/2001	13	Metals	N	MANGANESE	822	mg/Kg	J
T-6B-13	MY08Y4	12/07/2001	13	Metals	N	MERCURY	0.07	mg/Kg	J
T-6B-13	MY08Y4	12/07/2001	13	Metals	N	MERCURY	0.067	mg/Kg	J
T-6B-13	MY08Y6	12/07/2001	13	Metals	N	NICKEL	215	mg/Kg	J
T-6B-13	MY08Y4	12/07/2001	13	Metals	N	NICKEL	237	mg/Kg	J
T-6B-13	MY08Y6	12/07/2001	13	Metals	N	Percent Solids	77.1	%	J
T-6B-13	MY08Y4	12/07/2001	13	Metals	N	POTASSIUM	1320	mg/Kg	
T-6B-13	MY08Y6	12/07/2001	13	Metals	N	POTASSIUM	1240	mg/Kg	
T-6B-13	MY08Y6	12/07/2001	13	Metals	N	POTASSIUM	1240	mg/Kg	J
T-6B-13	MY08Y4	12/07/2001	13	Metals	N	POTASSIUM	1320	mg/Kg	J
T-6B-13	MY08Y4	12/07/2001	13	Metals	N	SELENIUM	1.2	mg/Kg	
T-6B-13	MY08Y4	12/07/2001	13	Metals	N	SELENIUM	1.2	mg/Kg	
T-6B-13	MY08Y4	12/07/2001	13	Metals	N	SODIUM	1140	mg/Kg	

Table 8-2
Chemicals Detected in the Area of the Former Above-Ground Storage Tanks

Location	Sample ID	Sample Date	Depth (ft)	Method	QA/QC Type[1]	Analyte	Result [2]	Units	Flag[3]
T-6B-13	MY08Y6	12/07/2001	13	Metals	N	SODIUM	926	mg/Kg	
T-6B-13	MY08Y4	12/07/2001	13	Metals	N	VANADIUM	63.3	mg/Kg	
T-6B-13	MY08Y6	12/07/2001	13	Metals	N	VANADIUM	64.5	mg/Kg	
T-6B-13	MY08Y4	12/07/2001	13	Metals	N	ZINC	69.5	mg/Kg	
T-6B-13	MY08Y6	12/07/2001	13	Metals	N	ZINC	80.8	mg/Kg	
T-6B-13	Y0C55	12/07/2001	13	Pest/PCBs	N	Percent Solids	81	%	UJ
T-6B-13	Y0C55	12/07/2001	13	Pest/PCBs	N	Endrin	22	ug/Kg	UJ
T-6B-13	Y0C55	12/07/2001	13	Pest/PCBs	N	Dieldrin	19	ug/Kg	UJ
T-6B-13	Y0C55	12/07/2001	13	Pest/PCBs	N	Aldrin	7.8	ug/Kg	
T-6B-13	Y0C55	12/07/2001	13	Pest/PCBs	N	Percent Solids	91	%	J
T-6B-13	Y0C55	12/07/2001	13	Pest/PCBs	N	Heptachlor	8.4	ug/Kg	
T-6B-13	Y0C55	12/07/2001	13	Pest/PCBs	N	4,4'-DDT	21	ug/Kg	
T-6B-13	Y0C55	12/07/2001	13	Pest/PCBs	N	gamma-BHC (Lindane)	8.3	ug/Kg	
T-6B-13	Y0C55	12/07/2001	13	VOCs	N	Dichloromethane	22	ug/Kg	
T-6B-13	Y0C55	12/07/2001	13	VOCs	N	Chloroethane	22	ug/Kg	
T-6B-13	Y0C55	12/07/2001	13	VOCs	N	Acetone	46	ug/Kg	
T-6B-13	Y0C55	12/07/2001	13	VOCs	N	% Moisture	19	%	J
T-6B-13	Y0C55	12/07/2001	13	VOCs	N	2-Butanone	7	ug/Kg	J
T-6B-18	39336	12/07/2001	18	8015B	N	TPH as Diesel	3	mg/Kg	J
T-6B-18	MY08Y5	12/07/2001	18	Metals	N	ALUMINUM	17800	mg/Kg	
T-6B-18	MY08Y5	12/07/2001	18	Metals	N	ALUMINUM	17800	mg/Kg	
T-6B-18	MY08Y5	12/07/2001	18	Metals	N	ARSENIC	8	mg/Kg	
T-6B-18	MY08Y5	12/07/2001	18	Metals	N	ARSENIC	8	mg/Kg	
T-6B-18	MY08Y5	12/07/2001	18	Metals	N	BARIUM	144	mg/Kg	
T-6B-18	MY08Y5	12/07/2001	18	Metals	N	BARIUM	144	mg/Kg	
T-6B-18	MY08Y5	12/07/2001	18	Metals	N	BERYLLIUM	0.46	mg/Kg	
T-6B-18	MY08Y5	12/07/2001	18	Metals	N	BERYLLIUM	0.46	mg/Kg	
T-6B-18	MY08Y5	12/07/2001	18	Metals	N	CALCIUM	2460	mg/Kg	
T-6B-18	MY08Y5	12/07/2001	18	Metals	N	CALCIUM	2460	mg/Kg	
T-6B-18	MY08Y5	12/07/2001	18	Metals	N	CHROMIUM	83.4	mg/Kg	J
T-6B-18	MY08Y5	12/07/2001	18	Metals	N	CHROMIUM	83.4	mg/Kg	J
T-6B-18	MY08Y5	12/07/2001	18	Metals	N	COBALT	20.9	mg/Kg	
T-6B-18	MY08Y5	12/07/2001	18	Metals	N	COBALT	20.9	mg/Kg	
T-6B-18	MY08Y5	12/07/2001	18	Metals	N	COPPER	51.8	mg/Kg	J
T-6B-18	MY08Y5	12/07/2001	18	Metals	N	COPPER	51.8	mg/Kg	J
T-6B-18	MY08Y5	12/07/2001	18	Metals	N	IRON	37300	mg/Kg	J
T-6B-18	MY08Y5	12/07/2001	18	Metals	N	IRON	37300	mg/Kg	J
T-6B-18	MY08Y5	12/07/2001	18	Metals	N	LEAD	8.3	mg/Kg	
T-6B-18	MY08Y5	12/07/2001	18	Metals	N	LEAD	8.3	mg/Kg	
T-6B-18	MY08Y5	12/07/2001	18	Metals	N	MAGNESIUM	17600	mg/Kg	
T-6B-18	MY08Y5	12/07/2001	18	Metals	N	MAGNESIUM	17600	mg/Kg	J
T-6B-18	MY08Y5	12/07/2001	18	Metals	N	MANGANESE	541	mg/Kg	J
T-6B-18	MY08Y5	12/07/2001	18	Metals	N	MANGANESE	541	mg/Kg	
T-6B-18	MY08Y5	12/07/2001	18	Metals	N	MERCURY	0.07	mg/Kg	
T-6B-18	MY08Y5	12/07/2001	18	Metals	N	MERCURY	0.066	mg/Kg	J
T-6B-18	MY08Y5	12/07/2001	18	Metals	N	NICKEL	195	mg/Kg	
T-6B-18	MY08Y5	12/07/2001	18	Metals	N	NICKEL	195	mg/Kg	
T-6B-18	MY08Y5	12/07/2001	18	Metals	N	Percent Solids	80.6	%	
T-6B-18	MY08Y5	12/07/2001	18	Metals	N	POTASSIUM	1620	mg/Kg	J
T-6B-18	MY08Y5	12/07/2001	18	Metals	N	POTASSIUM	1620	mg/Kg	
T-6B-18	MY08Y5	12/07/2001	18	Metals	N	SELENIUM	1.5	mg/Kg	UJ
T-6B-18	MY08Y5	12/07/2001	18	Metals	N	SELENIUM	1.5	mg/Kg	UJ
T-6B-18	MY08Y5	12/07/2001	18	Metals	N	SODIUM	988	mg/Kg	UJ
T-6B-18	MY08Y5	12/07/2001	18	Metals	N	VANADIUM	67.7	mg/Kg	
T-6B-18	MY08Y5	12/07/2001	18	Metals	N	VANADIUM	67.7	mg/Kg	J
T-6B-18	MY08Y5	12/07/2001	18	Metals	N	ZINC	85	mg/Kg	J
T-6B-18	MY08Y5	12/07/2001	18	Metals	N	ZINC	85	mg/Kg	

Table 8-2
Chemicals Detected in the Area of the Former Above-Ground Storage Tanks

Location	Sample ID	Sample Date	Depth (ft)	Method	QA/QC Type[1]	Analyte	Result[2]	Units	Flag[3]
T-6B-18	Y0C56	12/07/2001	18	Pest/PCBs	N	Percent Solids	80	ug/Kg	
T-6B-18	Y0C56	12/07/2001	18	VOCs	N	Chloroethane	11	ug/Kg	
T-6B-18	Y0C56	12/07/2001	18	VOCs	N	Acetone	20	ug/Kg	
T-6B-18	Y0C56	12/07/2001	18	VOCs	N	Dichloromethane	11	ug/Kg	
T-6B-18	Y0C56	12/07/2001	18	VOCs	N	% Moisture	20	%	
T-6B-18	Y0C56	12/07/2001	18	VOCs	N	Chloromethane	2	ug/Kg	J
T-6B-18	Y0C56	12/07/2001	18	VOCs	N	2-Butanone	3	ug/Kg	J
T-6B-23	39337	12/07/2001	23	8015B	N	TPH-Gasoline	18	mg/Kg	J
T-6B-23	39338	12/07/2001	23	8015B	FD	TPH-Gasoline	6	mg/Kg	J
T-6B-23	39337	12/07/2001	23	8015B	N	TPH as Diesel	3	mg/Kg	J
T-6B-23	39338	12/07/2001	23	8015B	FD	TPH as Diesel	7	mg/Kg	UJ
T-6B-23	39338	12/07/2001	23	8015B	FD	TPH as Motor Oil	30	mg/Kg	
T-6B-23	39337	12/07/2001	23	8015B	N	TPH as Motor Oil	20	mg/Kg	
T-6B-23	MY08Y7	12/07/2001	23	Metals	N	ALUMINUM	15500	mg/Kg	J
T-6B-23	MY08Y7	12/07/2001	23	Metals	N	ALUMINUM	15500	mg/Kg	J
T-6B-23	MY08Y7	12/07/2001	23	Metals	N	ARSENIC	7.1	mg/Kg	
T-6B-23	MY08Y7	12/07/2001	23	Metals	N	ARSENIC	7.1	mg/Kg	
T-6B-23	MY08Y7	12/07/2001	23	Metals	N	BARIUM	123	mg/Kg	
T-6B-23	MY08Y7	12/07/2001	23	Metals	N	BARIUM	123	mg/Kg	
T-6B-23	MY08Y7	12/07/2001	23	Metals	N	BERYLLIUM	0.42	mg/Kg	
T-6B-23	MY08Y7	12/07/2001	23	Metals	N	BERYLLIUM	0.42	mg/Kg	
T-6B-23	MY08Y7	12/07/2001	23	Metals	N	CADMIUM	0.1	mg/Kg	
T-6B-23	MY08Y7	12/07/2001	23	Metals	N	CADMIUM	0.097	mg/Kg	
T-6B-23	MY08Y7	12/07/2001	23	Metals	N	CALCIUM	2120	mg/Kg	
T-6B-23	MY08Y7	12/07/2001	23	Metals	N	CALCIUM	2120	mg/Kg	
T-6B-23	MY08Y7	12/07/2001	23	Metals	N	CHROMIUM	88.6	mg/Kg	J
T-6B-23	MY08Y7	12/07/2001	23	Metals	N	CHROMIUM	88.6	mg/Kg	J
T-6B-23	MY08Y7	12/07/2001	23	Metals	N	COBALT	21.4	mg/Kg	
T-6B-23	MY08Y7	12/07/2001	23	Metals	N	COBALT	21.4	mg/Kg	
T-6B-23	MY08Y7	12/07/2001	23	Metals	N	COPPER	44.7	mg/Kg	J
T-6B-23	MY08Y7	12/07/2001	23	Metals	N	COPPER	44.7	mg/Kg	J
T-6B-23	MY08Y7	12/07/2001	23	Metals	N	IRON	34000	mg/Kg	UJ
T-6B-23	MY08Y7	12/07/2001	23	Metals	N	IRON	34000	mg/Kg	
T-6B-23	MY08Y7	12/07/2001	23	Metals	N	LEAD	7.5	mg/Kg	
T-6B-23	MY08Y7	12/07/2001	23	Metals	N	LEAD	7.5	mg/Kg	
T-6B-23	MY08Y7	12/07/2001	23	Metals	N	MAGNESIUM	19300	mg/Kg	J
T-6B-23	MY08Y7	12/07/2001	23	Metals	N	MAGNESIUM	19300	mg/Kg	J
T-6B-23	MY08Y7	12/07/2001	23	Metals	N	MANGANESE	560	mg/Kg	
T-6B-23	MY08Y7	12/07/2001	23	Metals	N	MANGANESE	560	mg/Kg	
T-6B-23	MY08Y7	12/07/2001	23	Metals	N	MERCURY	0.052	mg/Kg	J
T-6B-23	MY08Y7	12/07/2001	23	Metals	N	NICKEL	205	mg/Kg	
T-6B-23	MY08Y7	12/07/2001	23	Metals	N	NICKEL	204	mg/Kg	
T-6B-23	MY08Y7	12/07/2001	23	Metals	N	Percent Solids	79.8	%	
T-6B-23	MY08Y7	12/07/2001	23	Metals	N	POTASSIUM	1030	mg/Kg	J
T-6B-23	MY08Y7	12/07/2001	23	Metals	N	POTASSIUM	1030	mg/Kg	
T-6B-23	MY08Y7	12/07/2001	23	Metals	N	SELENIUM	1.2	mg/Kg	
T-6B-23	MY08Y7	12/07/2001	23	Metals	N	SELENIUM	1.2	mg/Kg	
T-6B-23	MY08Y7	12/07/2001	23	Metals	N	SODIUM	885	mg/Kg	
T-6B-23	MY08Y7	12/07/2001	23	Metals	N	VANADIUM	62.1	mg/Kg	UJ
T-6B-23	MY08Y7	12/07/2001	23	Metals	N	VANADIUM	62.1	mg/Kg	UJ
T-6B-23	MY08Y7	12/07/2001	23	Metals	N	ZINC	74.1	mg/Kg	UJ
T-6B-23	MY08Y7	12/07/2001	23	Metals	N	ZINC	74.1	mg/Kg	UJ
T-6B-23	Y0C58	12/07/2001	23	Pest/PCBs	FD	Aldrin	3.9	ug/Kg	UJ
T-6B-23	Y0C58	12/07/2001	23	Pest/PCBs	FD	Dieldrin	5	ug/Kg	UJ
T-6B-23	Y0C58	12/07/2001	23	Pest/PCBs	FD	Percent Solids	80	%	
T-6B-23	Y0C57	12/07/2001	23	Pest/PCBs	N	Percent Solids	78	%	
T-6B-23	Y0C57	12/07/2001	23	VOCs	N	Dichloromethane	21	ug/Kg	

Table 8-2
Chemicals Detected in the Area of the Former Above-Ground Storage Tanks

Location	Sample ID	Sample Date	Depth (ft)	Method	QA/QC Type[1]	Analyte	Result[2]	Units	Flag[3]
T-6B-23	Y0C57	12/07/2001	23	VOCs	N	Chloroethane	21	ug/Kg	J
T-6B-23	Y0C58	12/07/2001	23	VOCs	FD	Bromomethane	22	ug/Kg	J
T-6B-23	Y0C58	12/07/2001	23	VOCs	FD	Acetone	34	ug/Kg	J
T-6B-23	Y0C58	12/07/2001	23	VOCs	FD	Chloroethane	22	ug/Kg	J
T-6B-23	Y0C58	12/07/2001	23	VOCs	FD	Dichloromethane	22	ug/Kg	J
T-6B-23	Y0C57	12/07/2001	23	VOCs	N	2-Butanone	23	ug/Kg	
T-6B-23	Y0C57	12/07/2001	23	VOCs	N	% Moisture	22	%	
T-6B-23	Y0C58	12/07/2001	23	VOCs	FD	% Moisture	20	%	
T-6B-23	Y0C57	12/07/2001	23	VOCs	N	Acetone	120	ug/Kg	
T-6B-23	Y0C57	12/07/2001	23	VOCs	N	Dichlorodifluoromethane	2	ug/Kg	
T-6B-23	Y0C57	12/07/2001	23	VOCs	N	Chloromethane	4	ug/Kg	
T-6B-23	Y0C58	12/07/2001	23	VOCs	FD	2-Butanone	6	ug/Kg	J
T-6B-23	Y0C57	12/07/2001	23	VOCs	N	4-Methyl-2-pentanone	4	ug/Kg	J
T-6B-28	39339	12/07/2001	28	8015B	N	TPH-Gasoline	30	mg/Kg	J
T-6B-28	39339	12/07/2001	28	8015B	N	TPH as Diesel	20	mg/Kg	J
T-6B-28	39339	12/07/2001	28	8015B	N	TPH as Motor Oil	30	mg/Kg	
T-6B-28	MY08Y8	12/07/2001	28	Metals	N	ALUMINUM	16800	mg/Kg	
T-6B-28	MY08Y8	12/07/2001	28	Metals	N	ALUMINUM	16800	mg/Kg	
T-6B-28	MY08Y8	12/07/2001	28	Metals	N	ARSENIC	5	mg/Kg	
T-6B-28	MY08Y8	12/07/2001	28	Metals	N	ARSENIC	5	mg/Kg	
T-6B-28	MY08Y8	12/07/2001	28	Metals	N	BARIUM	266	mg/Kg	
T-6B-28	MY08Y8	12/07/2001	28	Metals	N	BARIUM	266	mg/Kg	
T-6B-28	MY08Y8	12/07/2001	28	Metals	N	BERYLLIUM	0.52	mg/Kg	
T-6B-28	MY08Y8	12/07/2001	28	Metals	N	BERYLLIUM	0.52	mg/Kg	
T-6B-28	MY08Y8	12/07/2001	28	Metals	N	CALCIUM	1970	mg/Kg	
T-6B-28	MY08Y8	12/07/2001	28	Metals	N	CALCIUM	1970	mg/Kg	
T-6B-28	MY08Y8	12/07/2001	28	Metals	N	CHROMIUM	71.4	mg/Kg	J
T-6B-28	MY08Y8	12/07/2001	28	Metals	N	CHROMIUM	71.4	mg/Kg	J
T-6B-28	MY08Y8	12/07/2001	28	Metals	N	COBALT	19.7	mg/Kg	
T-6B-28	MY08Y8	12/07/2001	28	Metals	N	COBALT	19.7	mg/Kg	
T-6B-28	MY08Y8	12/07/2001	28	Metals	N	COPPER	51.3	mg/Kg	J
T-6B-28	MY08Y8	12/07/2001	28	Metals	N	COPPER	51.2	mg/Kg	J
T-6B-28	MY08Y8	12/07/2001	28	Metals	N	IRON	33600	mg/Kg	UJ
T-6B-28	MY08Y8	12/07/2001	28	Metals	N	IRON	33600	mg/Kg	
T-6B-28	MY08Y8	12/07/2001	28	Metals	N	LEAD	8.9	mg/Kg	
T-6B-28	MY08Y8	12/07/2001	28	Metals	N	LEAD	8.9	mg/Kg	
T-6B-28	MY08Y8	12/07/2001	28	Metals	N	MAGNESIUM	14400	mg/Kg	J
T-6B-28	MY08Y8	12/07/2001	28	Metals	N	MAGNESIUM	14400	mg/Kg	J
T-6B-28	MY08Y8	12/07/2001	28	Metals	N	MANGANESE	304	mg/Kg	J
T-6B-28	MY08Y8	12/07/2001	28	Metals	N	MANGANESE	304	mg/Kg	
T-6B-28	MY08Y8	12/07/2001	28	Metals	N	MERCURY	0.068	mg/Kg	
T-6B-28	MY08Y8	12/07/2001	28	Metals	N	NICKEL	135	mg/Kg	
T-6B-28	MY08Y8	12/07/2001	28	Metals	N	NICKEL	135	mg/Kg	J
T-6B-28	MY08Y8	12/07/2001	28	Metals	N	Percent Solids	73.8	%	
T-6B-28	MY08Y8	12/07/2001	28	Metals	N	POTASSIUM	1240	mg/Kg	
T-6B-28	MY08Y8	12/07/2001	28	Metals	N	POTASSIUM	1240	mg/Kg	
T-6B-28	MY08Y8	12/07/2001	28	Metals	N	SODIUM	919	mg/Kg	J
T-6B-28	MY08Y8	12/07/2001	28	Metals	N	VANADIUM	64.7	mg/Kg	UJ
T-6B-28	MY08Y8	12/07/2001	28	Metals	N	VANADIUM	64.6	mg/Kg	UJ
T-6B-28	MY08Y8	12/07/2001	28	Metals	N	ZINC	90.1	mg/Kg	UJ
T-6B-28	MY08Y8	12/07/2001	28	Metals	N	ZINC	90.1	mg/Kg	
T-6B-28	Y0C59	12/07/2001	28	Pest/PCBs	N	Percent Solids	91	%	
T-6B-28	Y0C59	12/07/2001	28	Pest/PCBs	N	Aldrin	11	ug/Kg	
T-6B-28	Y0C59	12/07/2001	28	Pest/PCBs	N	Dieldrin	13	ug/Kg	J
T-6B-28	Y0C59	12/07/2001	28	Pest/PCBs	N	4,4'-DDT	2.3	ug/Kg	J
T-6B-28	Y0C59	12/07/2001	28	VOCs	N	Chloroethane	18	ug/Kg	
T-6B-28	Y0C59	12/07/2001	28	VOCs	N	Acetone	22	ug/Kg	

Table 8-2
Chemicals Detected in the Area of the Former Above-Ground Storage Tanks

Location	Sample ID	Sample Date	Depth (ft)	Method	QA/QC Type[1]	Analyte	Result[2]	Units	Flag[3]
T-6B-28	Y0C59	12/07/2001	28	VOCs	N	Dichloromethane	18	ug/Kg	
T-6B-28	Y0C59	12/07/2001	28	VOCs	N	% Moisture	21	%	
T-6B-28	Y0C59	12/07/2001	28	VOCs	N	Chloromethane	2	ug/Kg	
T-6B-28	Y0C59	12/07/2001	28	VOCs	N	1,1,2-Trichloroethane	4	ug/Kg	

Notes:
1.QA/QC Type:
N = sample
FD = field duplicate

2. Bolded values indicate exceedance of Industrial Soil PRG, see Table 2-1 and below.
a. Metals: Industrial Soil PRGs (compounds not listed do not have a PRG established.)
Arsenic 1.6 mg/kg (cancer endpoint), 260 mg/kg (non-cancer endpoint)
Aluminum 100,000 mg/kg
Antimony 410 mg/kg
Barium 67,000 mg/kg
Beryllium 1,900 mg/kg
Chromium (total) 450 mg/kg
Cobalt 1,900 mg/kg
Copper 41,000 mg/kg
Iron 100,000 mg/kg
Lead 750 mg/kg
Manganese 19,000 mg/kg
Nickel (soluble salts) 20,000 mg/kg
Selenium 5,100 mg/kg
Vanadium 7,200 mg/kg
Zinc 100,000 mg/kg

b. Industrial Soil PRGs (compounds not listed in Table 2-1)

Aroclor 1016	21,000 ug/kg	Heptachlor epoxide	270 ug/kg
Aroclor 1221	740 ug/kg	Endosulfan	3,700,000 ug/kg
Aroclor 1232	740 ug/kg	Methoxychlor	3,100,000 ug/kg
Aroclor 1242	740 ug/kg	alpha-BHC	360 ug/kg
Aroclor 1248	740 ug/kg	beta-BHC	1,300 ug/kg
Aroclor 1254	740 ug/kg	gamma-BHC	1700 ug/kg
Aroclor 1260	740 ug/kg	DDD	10,000 ug/kg
Aldrin	100 ug/kg	DDE	7,000 ug/kg
Dieldrin	110 ug/kg	DDT	7,000 ug/kg
Heptachlor	380 ug/kg		

c. Bolded TPH analysis results indicates that the value exceeds the 100 ppm screening level identified in the TRI - Regional Board Staff Recommendations for Preliminary Investigation and Evaluation of Underground Tank Sites, August 1990.

3. Lab Flag Description:
J = The amount detected is less than the quantitation limit and is only an estimated value.
UJ = The analyte was not detected above the reported quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

SECTION 9

Summary

This report presents the results of remedial investigations conducted at the Frontier Fertilizer site from June 2001 to June 2002. These data were collected in support of ongoing efforts to characterize and remediate contaminated soil and groundwater on and adjacent to the site. The primary purpose of this report is to summarize and present data collected during this period.

CPT data, lithologic data from soil borings and wells, and aquifer test data were collected to further define the hydrogeology/stratigraphy of the Frontier Fertilizer site and support the development of a numerical groundwater flow model (capture zone model) which will be used to optimize the extraction well field.

CPT groundwater, soil, and soil gas samples, soil boring soil samples (SB1 through SB4), and soil samples from the area of former above-ground storage tanks were collected and analyzed for a range of VOCs (Tables 3-2, 3-4, 3-6, 4-2, and 8-2) to better estimate the mass and extent of contamination associated with the Frontier Fertilizer site.

An interpretation of the distributions of DCP, DBCP, EDB and CCl_4 in groundwater have been made from CPT groundwater data in combination with the results of quarterly groundwater monitoring. An evaluation of the vertical extent of contamination in the area of the former disposal basin has been made using soil boring soil data in combination with CPT soil data. FLUTe™ system testing was performed at a limited number of locations in an effort to determine the absence/presence of DNAPLs as a source of groundwater contamination.

New extraction wells X-6A and X-6B were installed in the area of the former disposal basin to provide additional extraction in the vicinity of the source of pesticides. Extraction wells X-7B and X-7C were installed in the area of a DCP hot spot near wells OW-11A, B, and C to provide in-plume groundwater extraction and minimize further migration of the pesticide and CCl_4 plumes. Additional monitoring wells OW-15D, OW-19C, and OW-19D were installed between the plumes and City of Davis Well No. 29 to provide additional A-1 zone monitoring.

SECTION 10

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_____, 2001. Sampling and Analysis Plan for Frontier Fertilizer Downgradient Cone Penetration Testing and Groundwater Sampling and Supplemental Source Area Investigation. Prepared for the U.S. Environmental Protection Agency, Region IX. October.

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APPENDIX A

CPT Boring, Soil Boring, and Well Logs

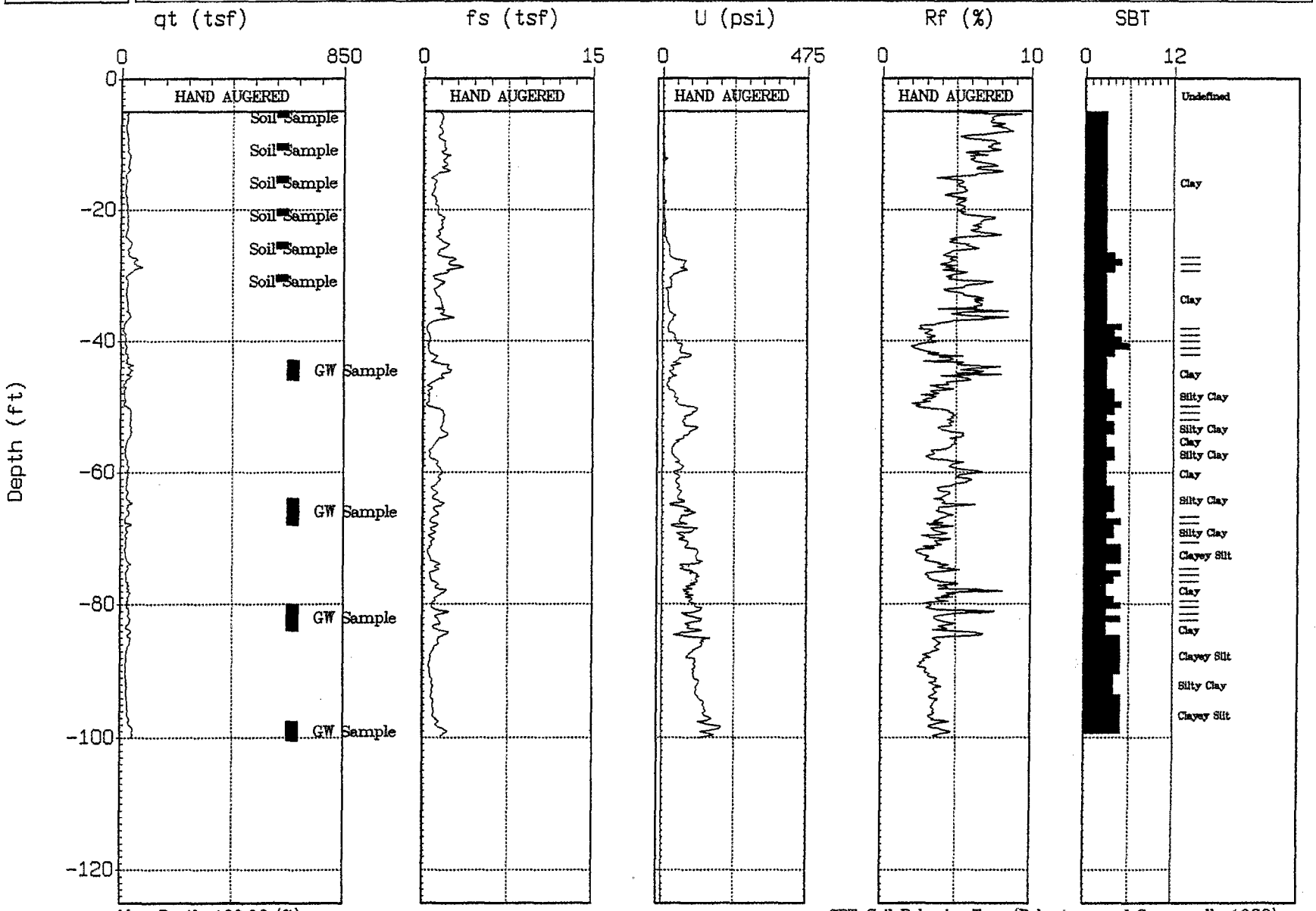
CPT Boring

GREGG

URS CORPORATION

Site : FRONTIER FERT.
Location : CPT-01

Geologist : P. CRISPELL
Date : 11:07:01 11:49



Max. Depth: 100.06 (ft)

Depth Inc.: 0.164 (ft)

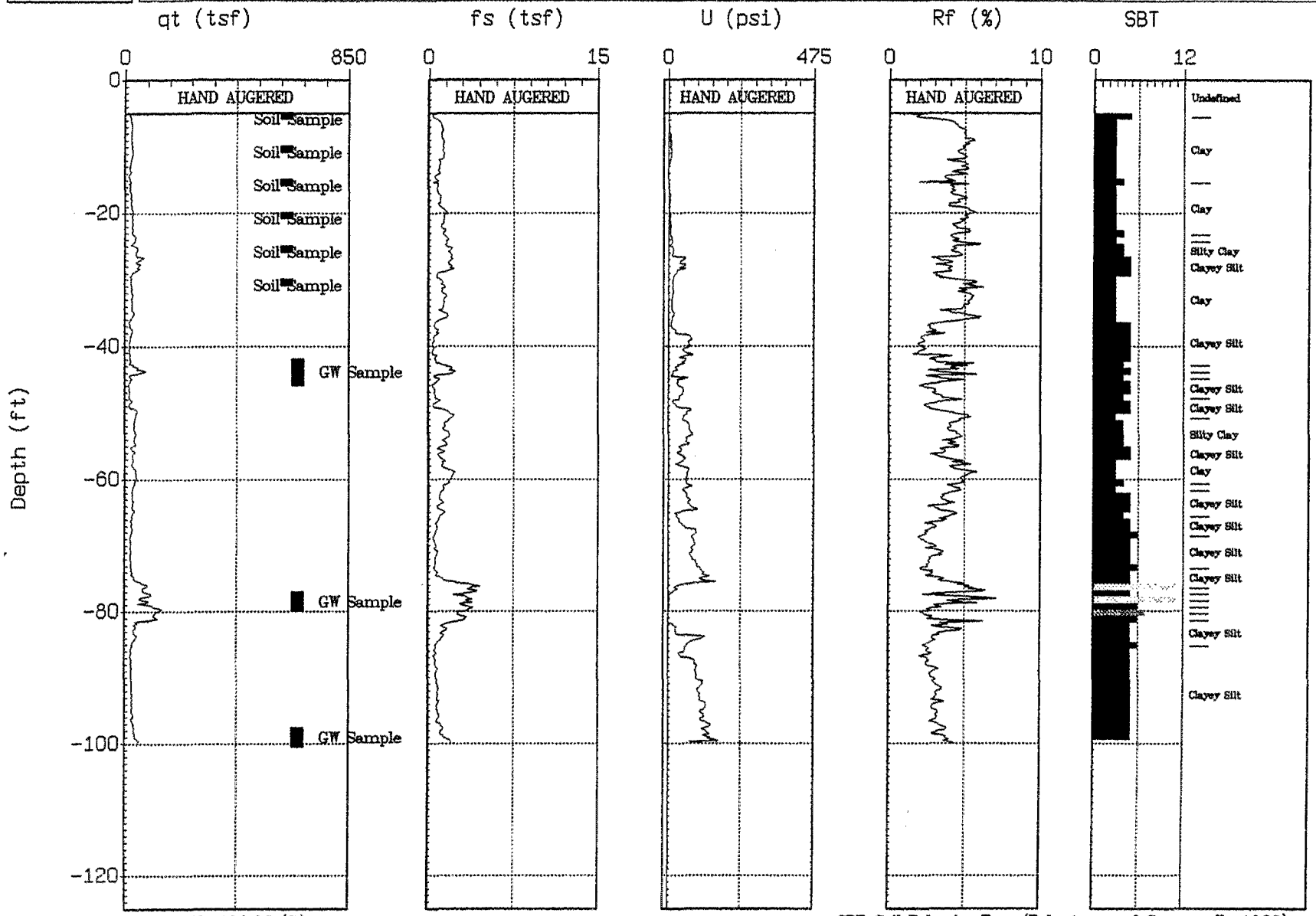
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

URS CORPORATION

Site : FRONTIER FERT.
Location : CPT-02

Geologist : P. CRISPELL
Date : 11:07:01 10:37



Max. Depth: 100.06 (ft)

Depth Inc.: 0.164 (ft)

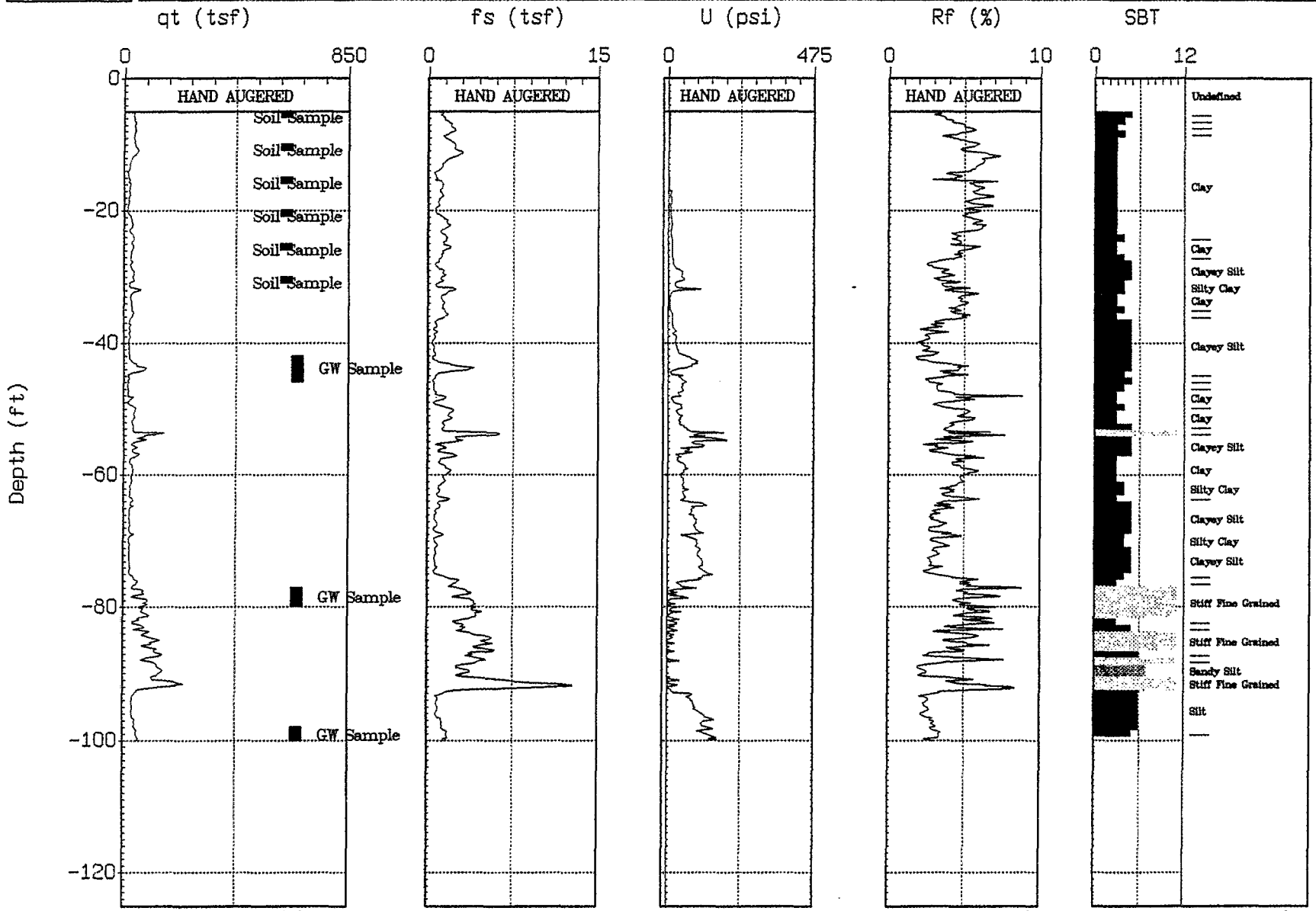
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

URS CORPORATION

Site : FRONTIER FERT.
Location : CPT-03

Geologist : P. CRISPELL
Date : 11:08:01 08:37



Max. Depth: 100.06 (ft)

Depth Inc.: 0.164 (ft)

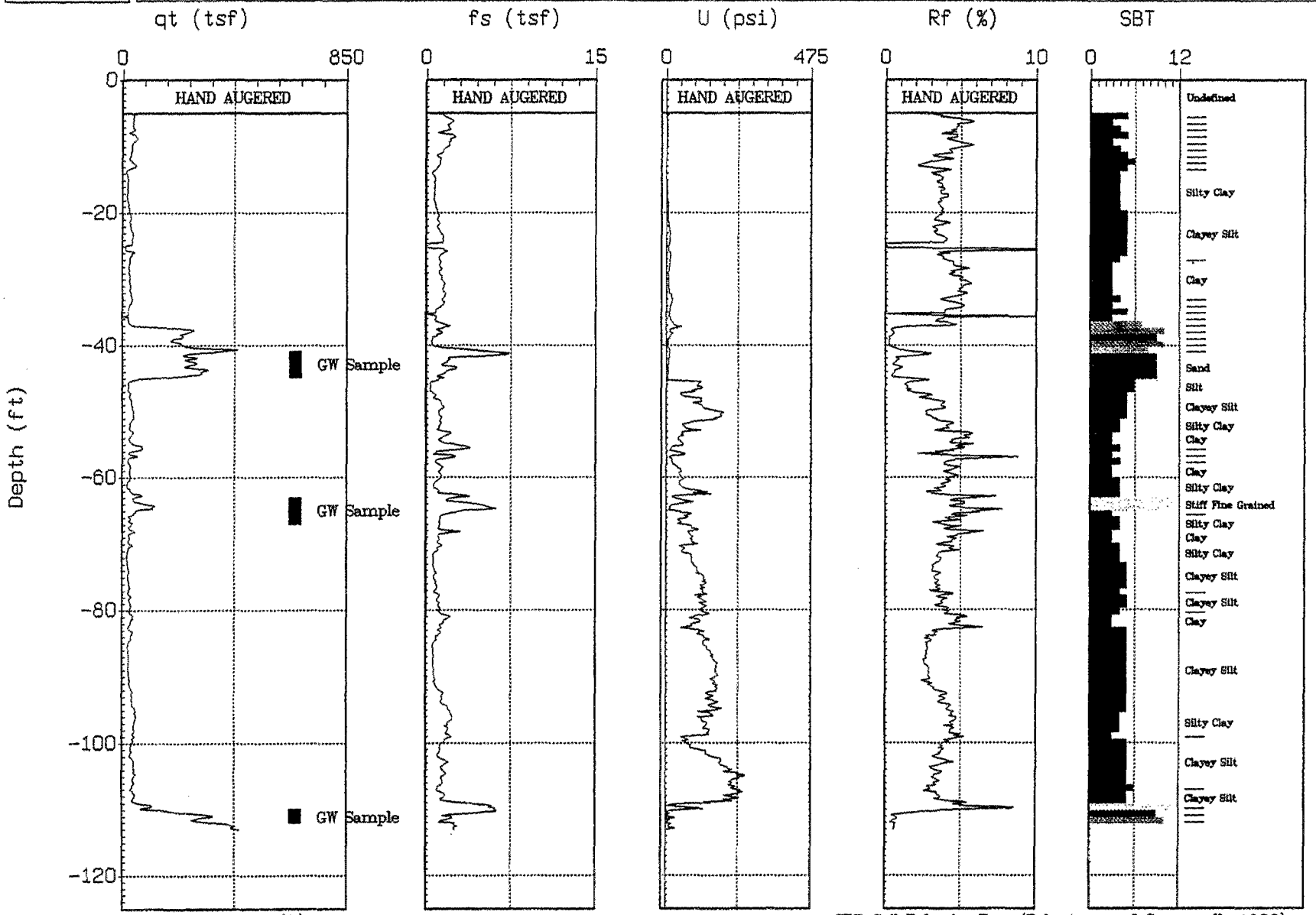
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

URS CORPORATION

Site : FRONTIER FERT.
Location : CPT-04

Geologist : P. CRISPELL
Date : 11:28:01 13:05



Max. Depth: 113.02 (ft)

Depth Inc.: 0.164 (ft)

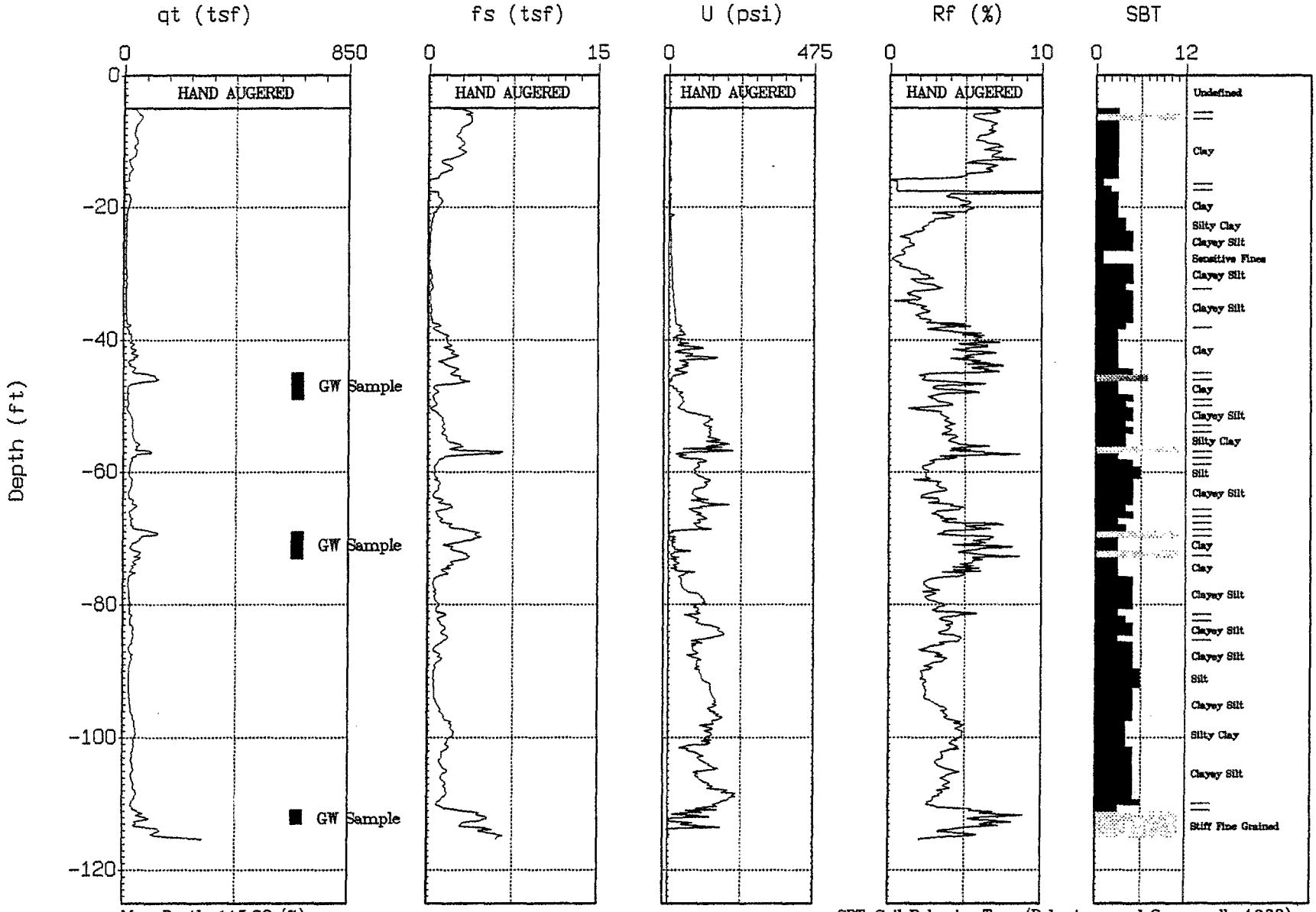
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

URS CORPORATION

Site : FRONTIER FERT.
Location : CPT-05

Geologist : P. CRISPELL
Date : 11:27:01 17:01



Max. Depth: 115.32 (ft)

Depth Inc.: 0.164 (ft)

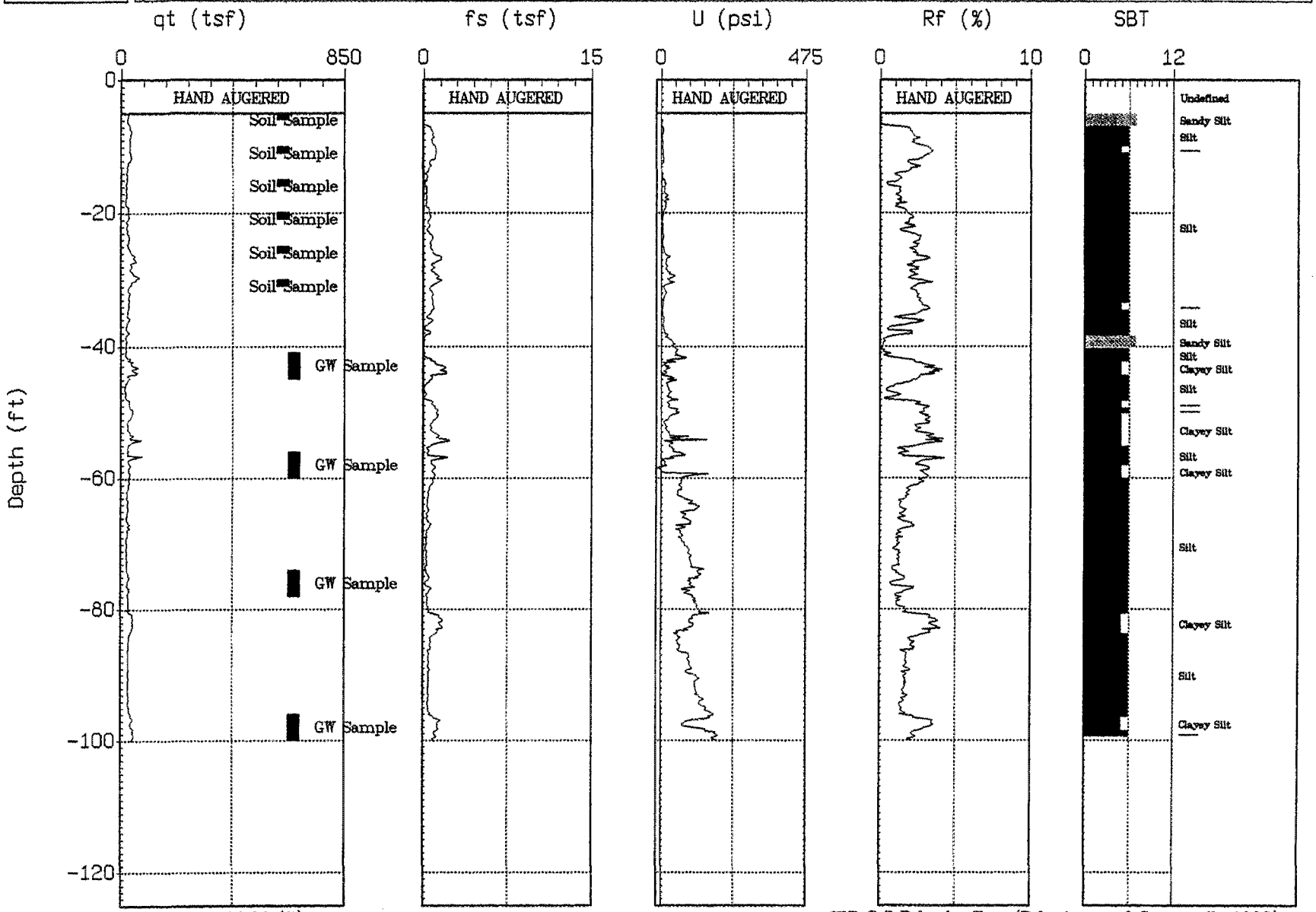
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

URS CORPORATION

Site : FRONTIER FERT.
Location : CPT-06

Geologist : P. CRISPELL
Date : 11:19:01 15:40



Max. Depth: 100.06 (ft)

Depth Inc.: 0.164 (ft)

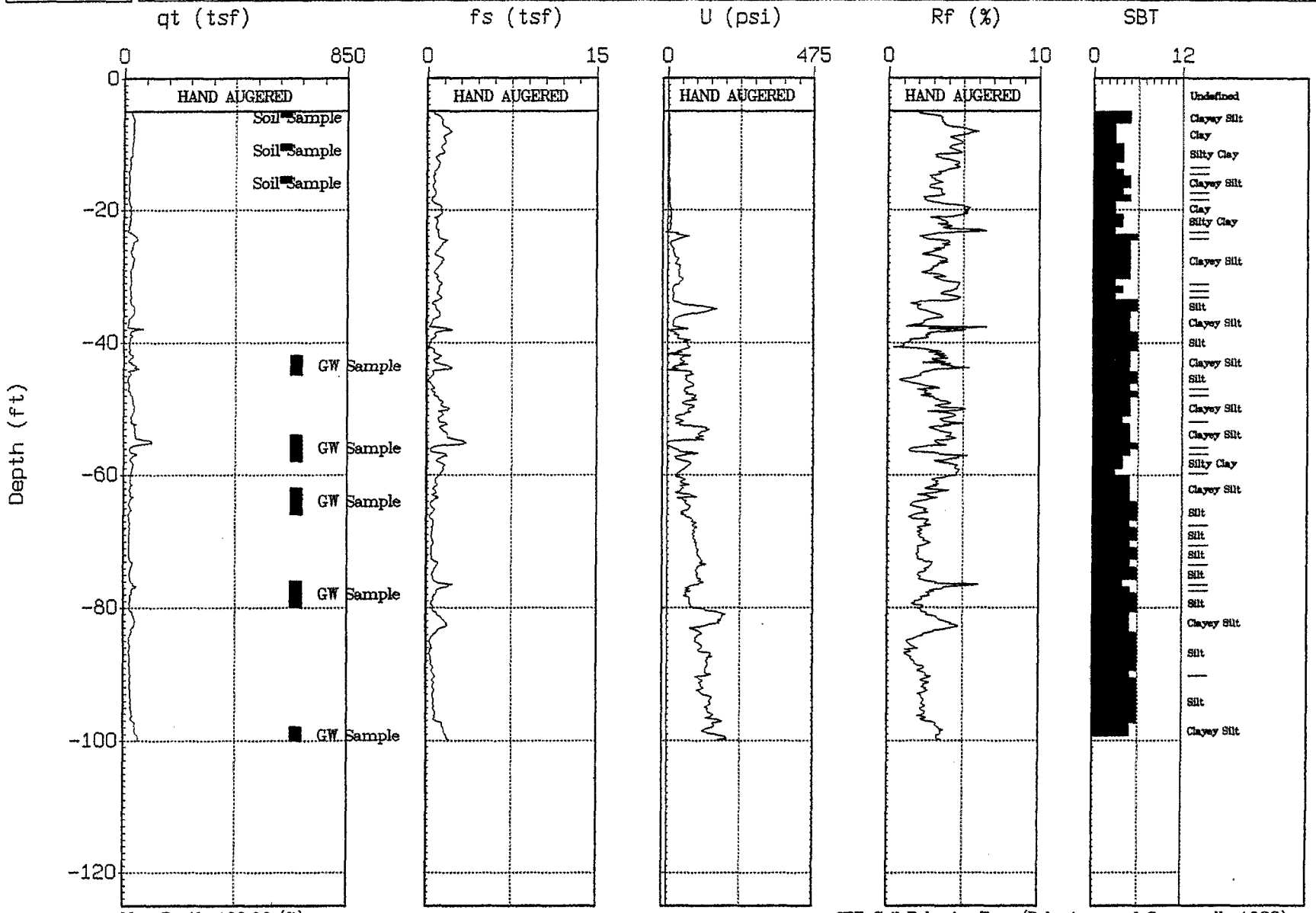
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

URS CORPORATION

Site : FRONTIER FERT.
Location : CPT-07

Geologist : P. CRISPELL
Date : 11:06:01 17:08



Max. Depth: 100.06 (ft)

Depth Inc.: 0.164 (ft)

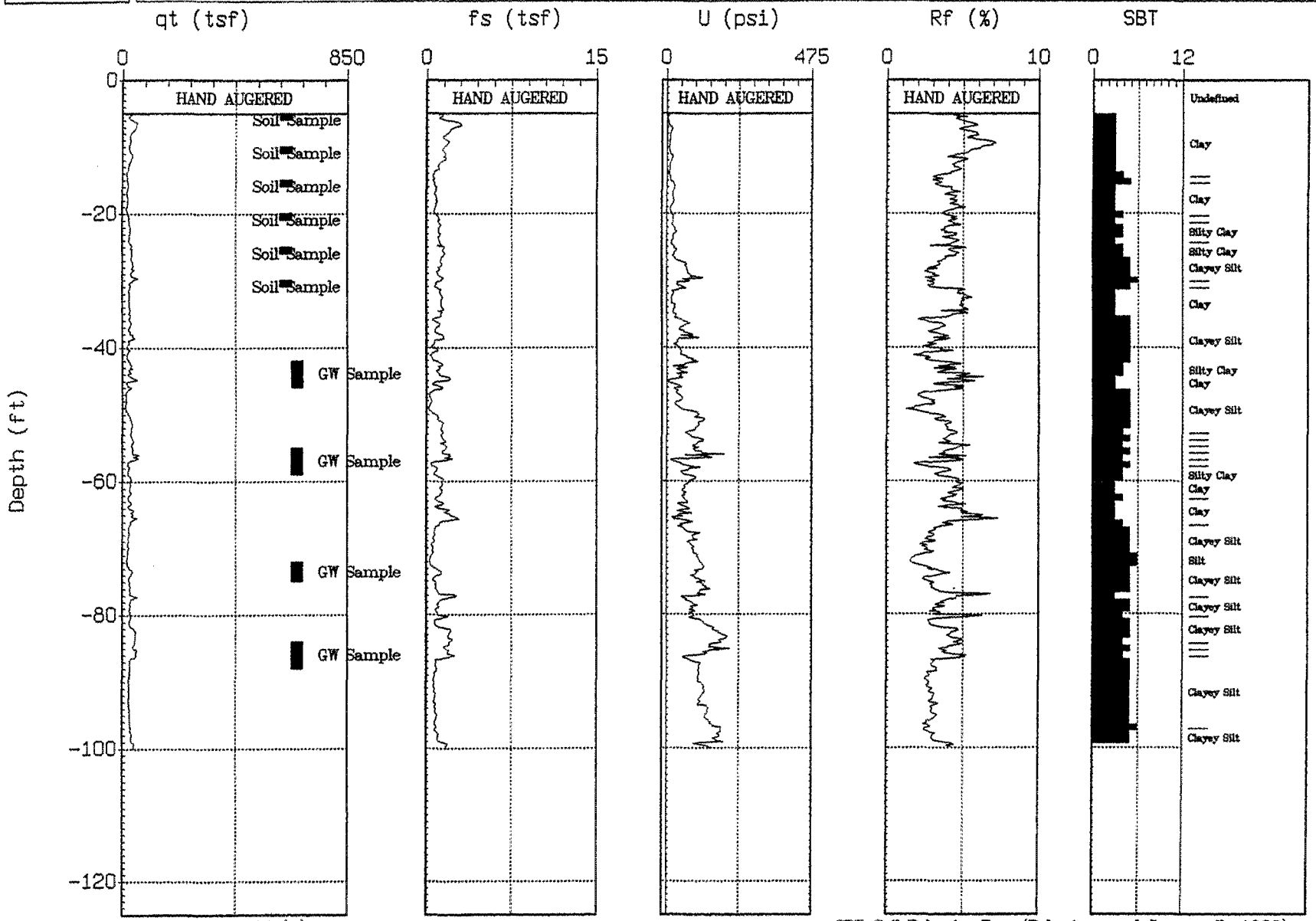
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

URS CORPORATION

Site : FRONTIER FERT.
Location : CPT-08

Geologist : P. CRISPELL
Date : 11:06:01 10:37



Max. Depth: 100.06 (ft)

Depth Inc.: 0.164 (ft)

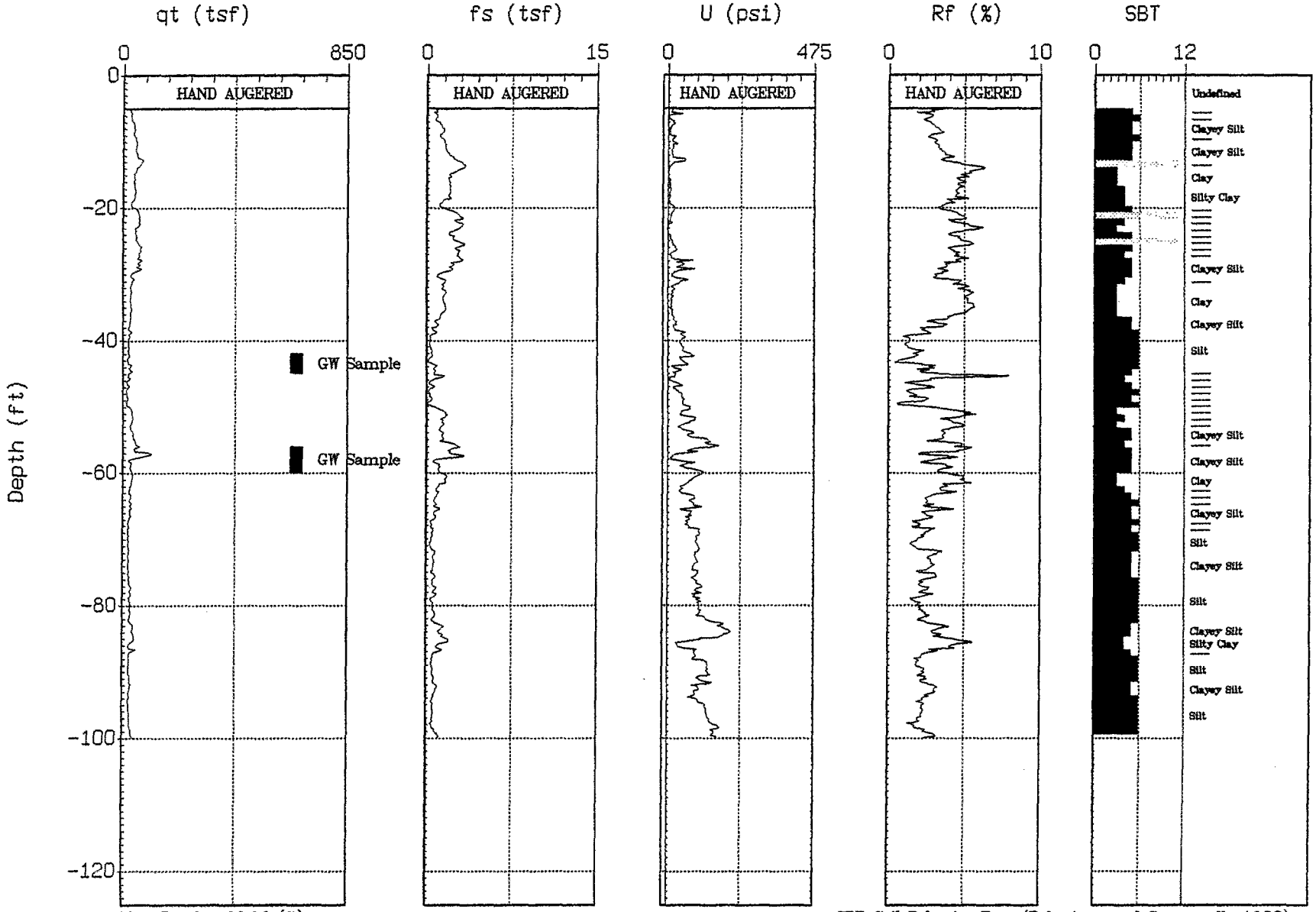
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

URS CORPORATION

Site : FRONTIER FERT.
Location : CPT-09

Geologist : P. CRISPELL
Date : 11:02:01 16:47



Max. Depth: 100.06 (ft)

Depth Inc.: 0.164 (ft)

SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

URS CORPORATION

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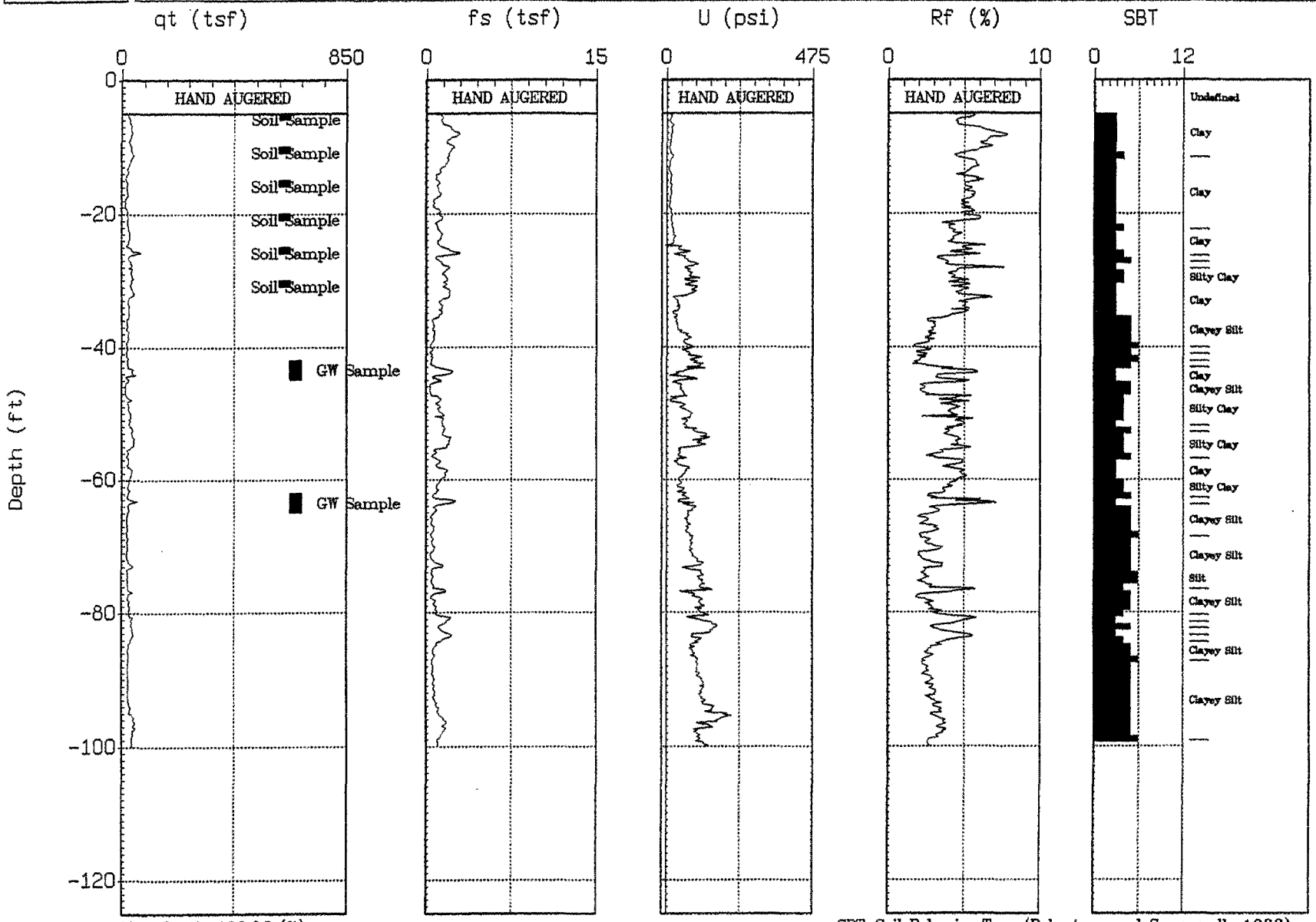
Location : CPT-10

Geologist : P. CRISPELL
Date : 11:01:01 15:14



Max. Depth: 100.06 (ft)

Depth Inc.: 0.164 (ft)

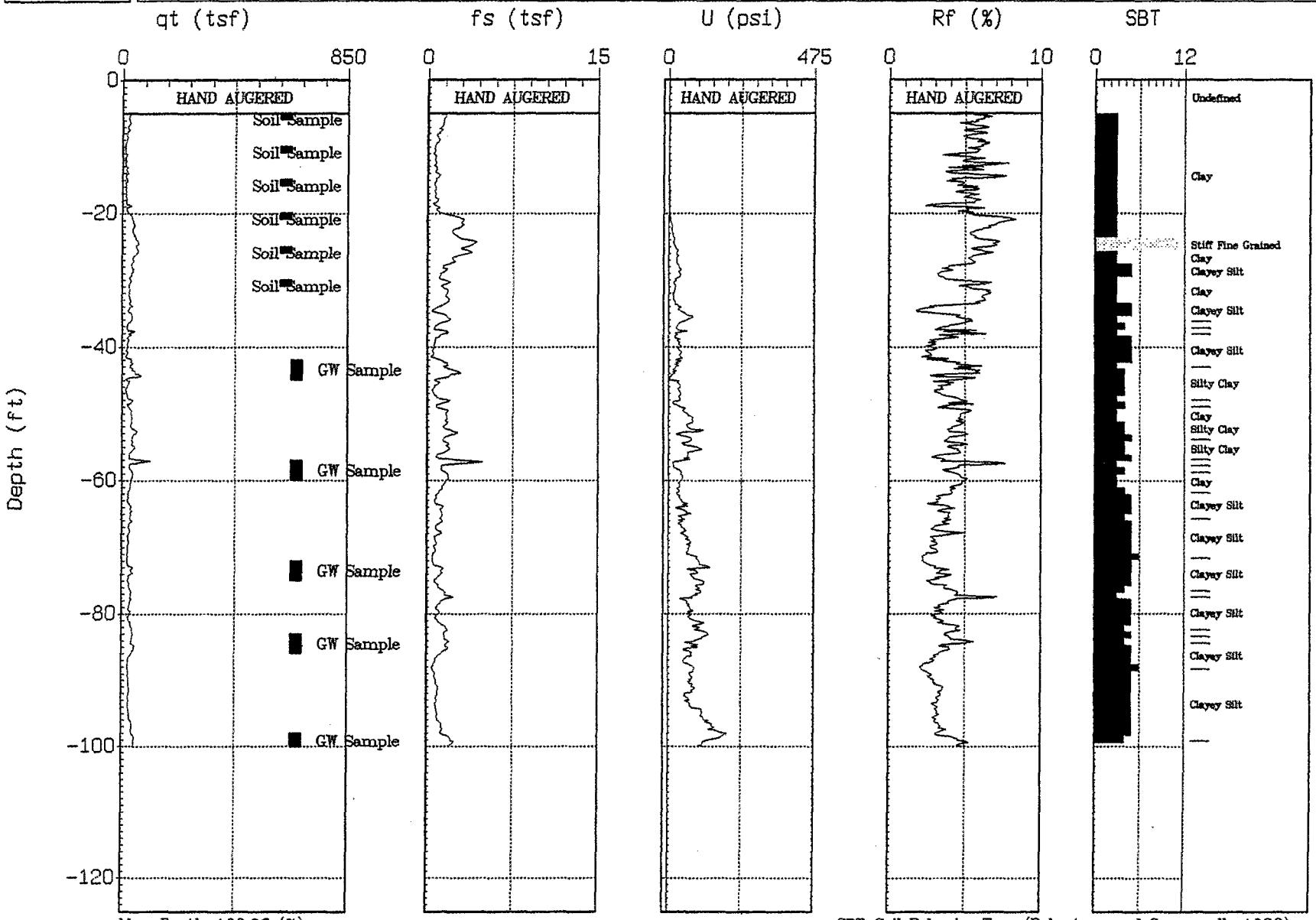
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

URS CORPORATION

Site : FRONTIER FERT.
Location : CPT-11

Geologist : P. CRISPELL
Date : 10:31:01 11:54



Max. Depth: 100.06 (ft)

Depth Inc.: 0.164 (ft)

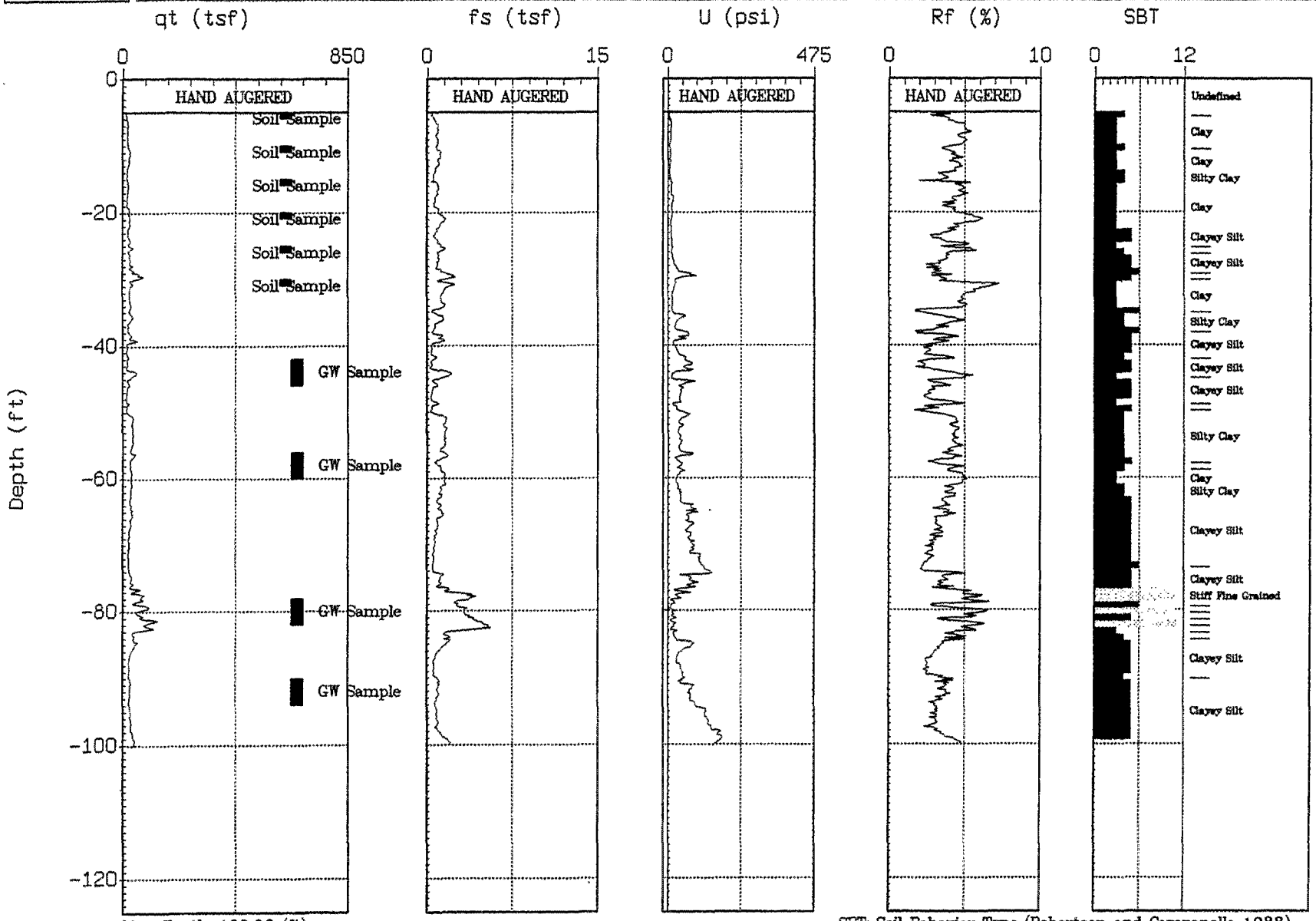
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

URS CORPORATION

Site : FRONTIER FERT.
Location : CPT-12

Geologist : P. CRISPELL
Date : 11:20:01 14:59



Max. Depth: 100.06 (ft)

Depth Inc.: 0.164 (ft)

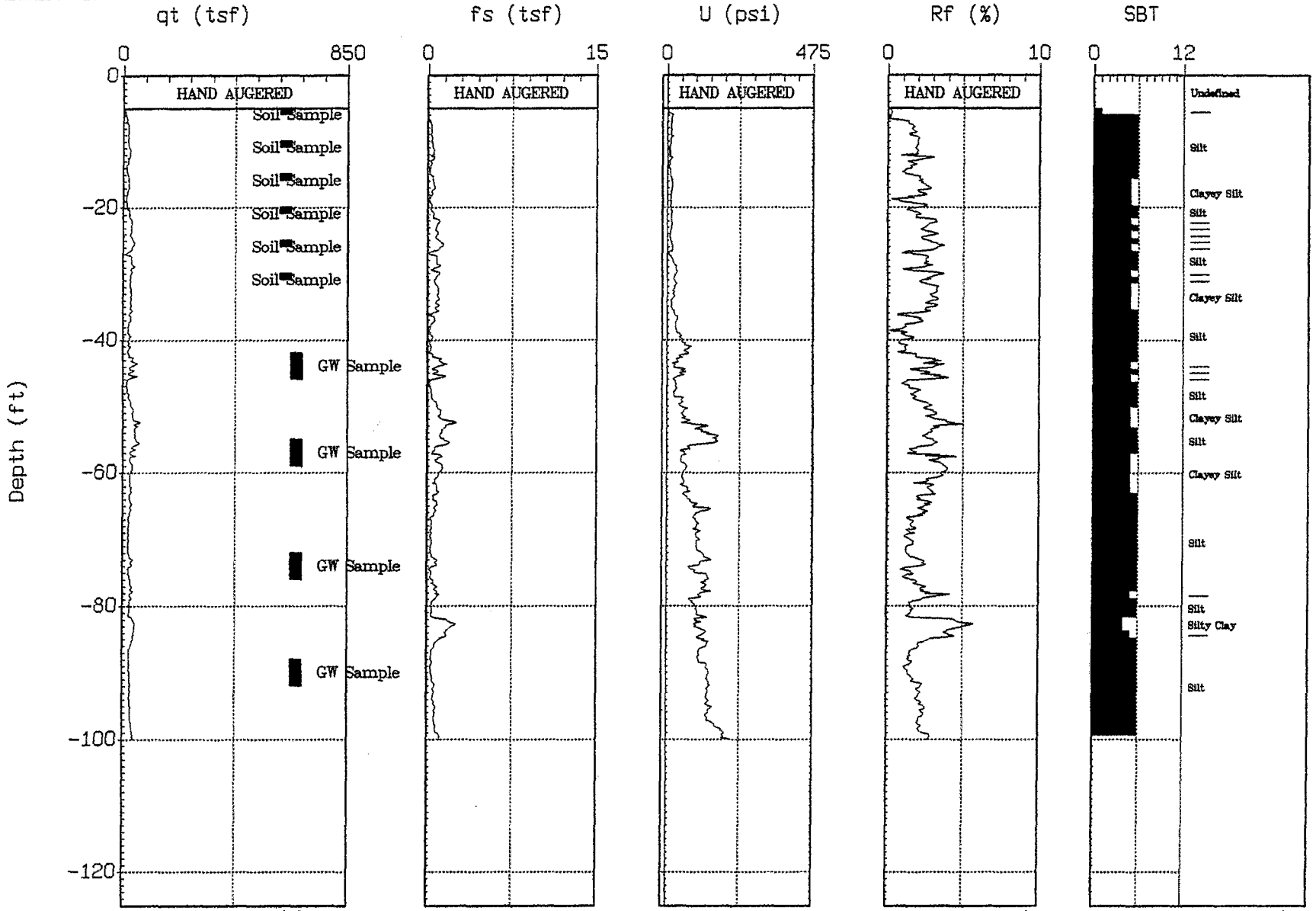
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

URS CORPORATION

Site : FRONTIER FERT.
Location : CPT-13

Geologist : P. CRISPELL
Date : 11:15:01 15:29



Max. Depth: 100.06 (ft)

Depth Inc.: 0.164 (ft)

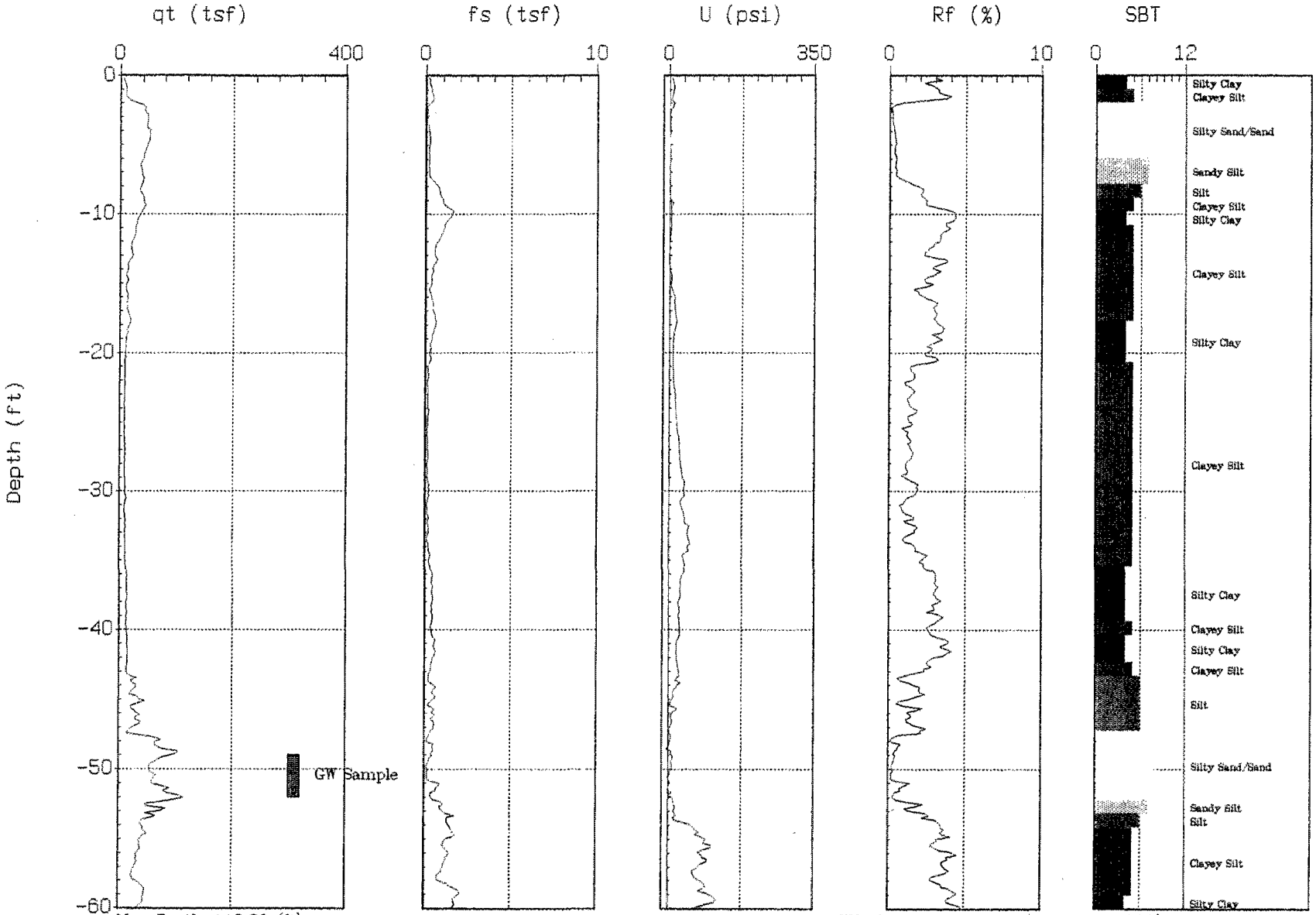
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

URS CORPORATION

Site : FRONTIER FERTILIZER
Location : CPT-14

Geologist : P. CRISPEL
Date : 12:19:01 11:09



Max. Depth: 112.20 (ft)

Depth Inc.: 0.164 (ft)

SBT: Soil Behavior Type (Robertson 1990)

GREGG

URS CORPORATION

Site : FRONTIER FERTILIZER
Location : CPT-14

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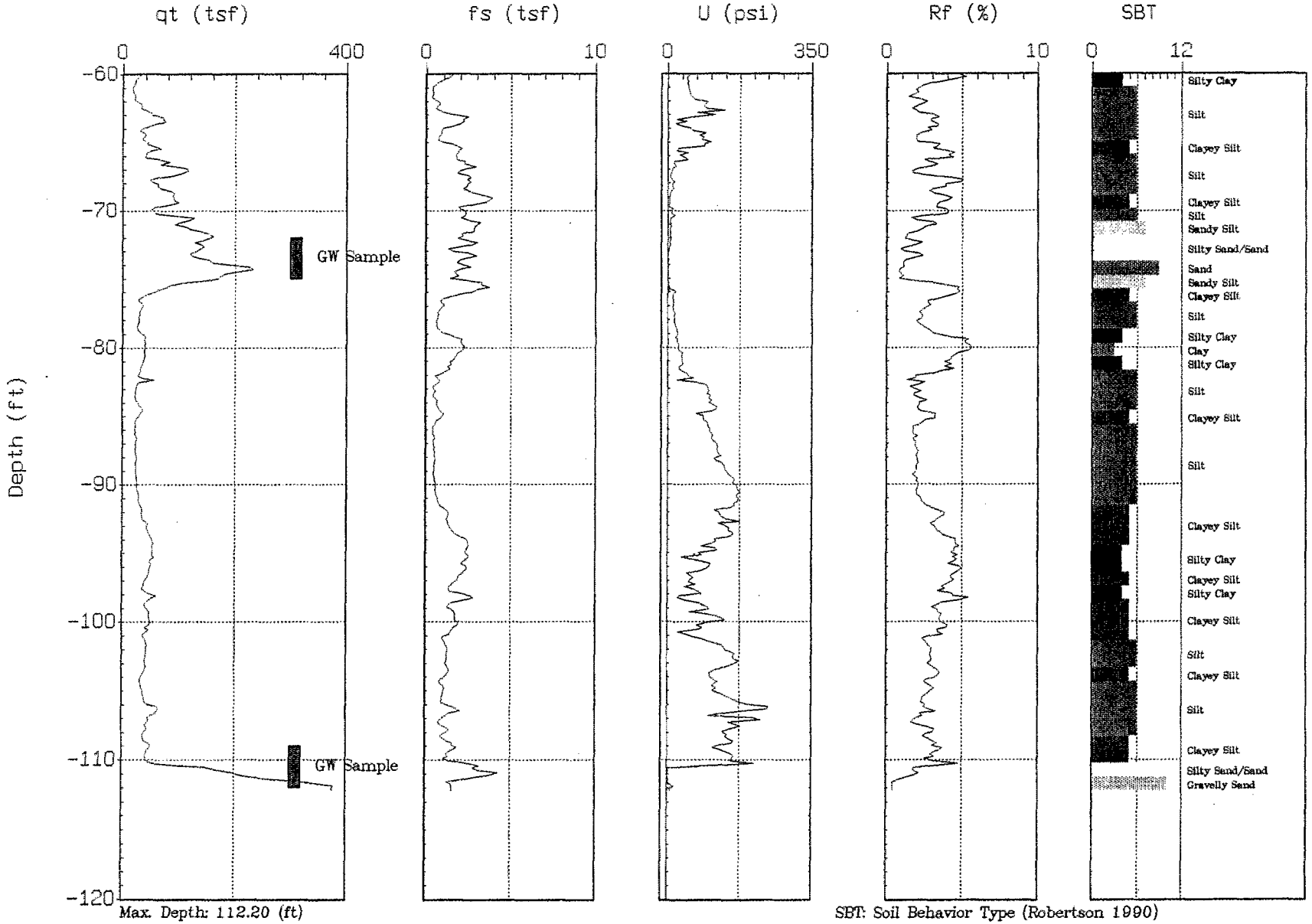

Max. Depth: 112.20 (ft)

Depth Inc.: 0.164 (ft)

SBT: Soil Behavior Type (Robertson 1990)

GREGG

URS CORPORATION

Site : FRONTIER FERT.
Location : CPT-15

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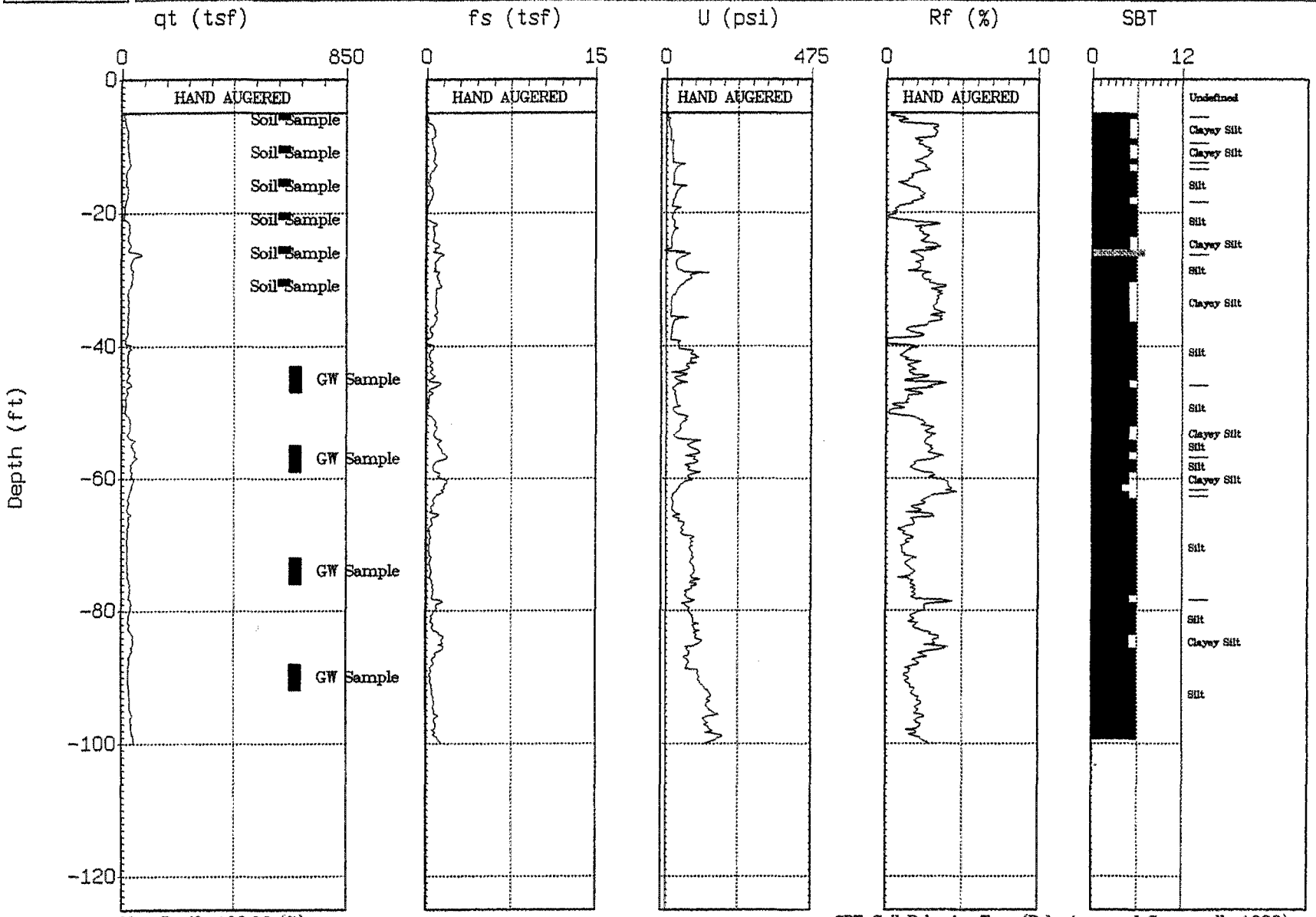
Date : 11:16:01 12:06



Max. Depth: 100.06 (ft)

Depth Inc.: 0.164 (ft)

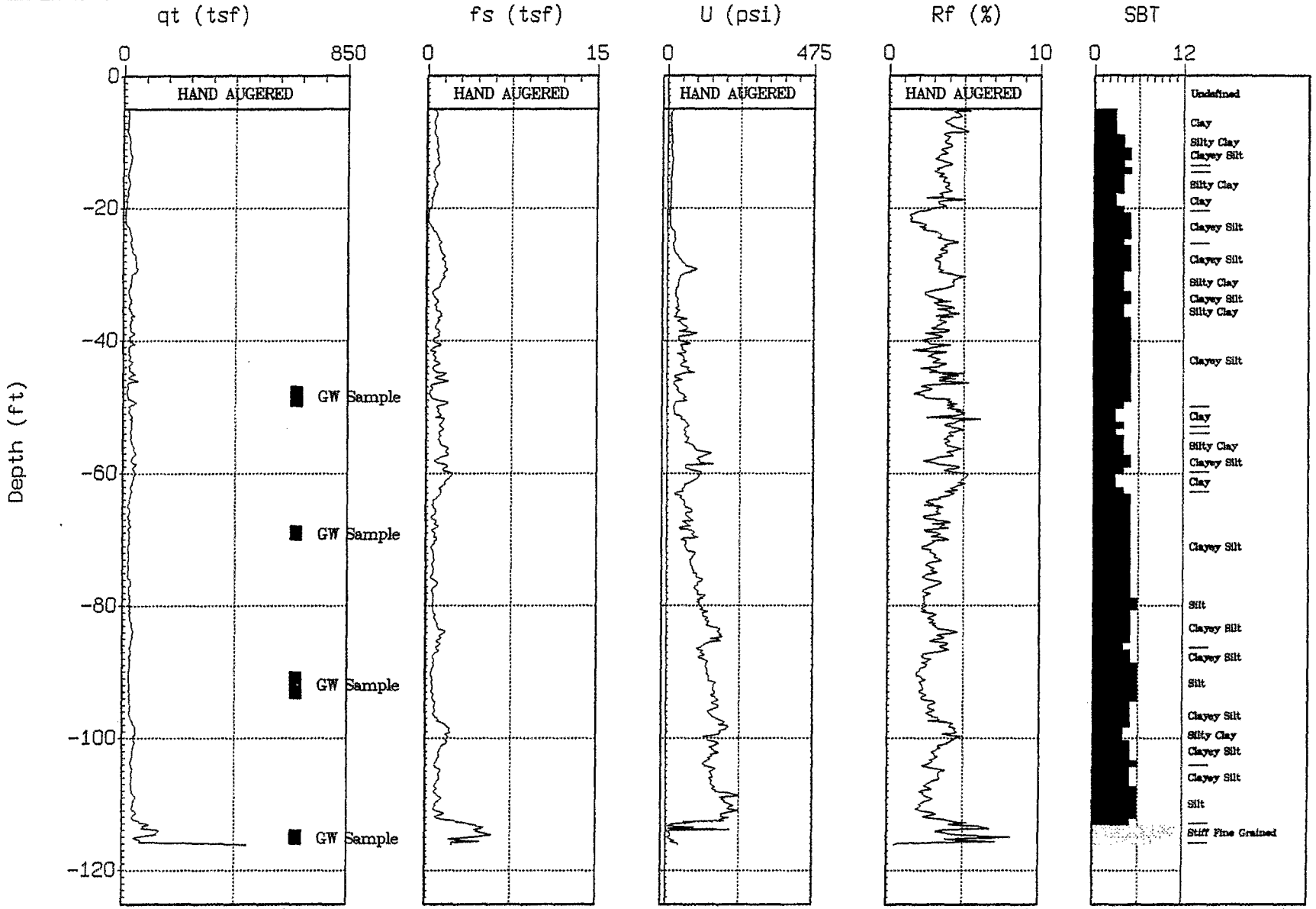
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

URS CORPORATION

Site : FRONTIER FERT.
Location : CPT-16

Geologist : P. CRISPELL
Date : 10:25:01 09:06



Max. Depth: 116.14 (ft)

Depth Inc.: 0.164 (ft)

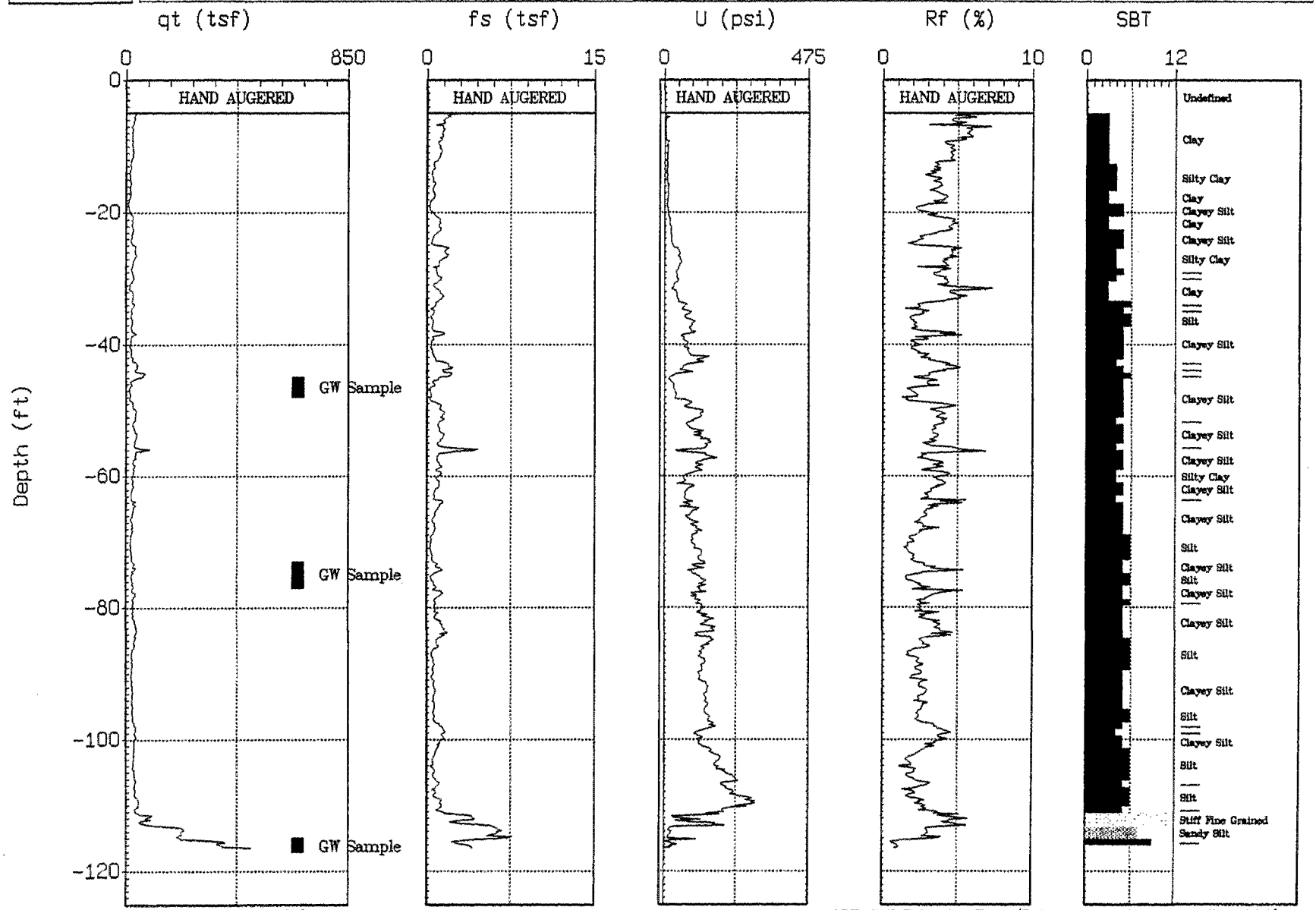
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

URS CORPORATION

Site : FRONTIER FERT.
Location : CPT-17

Geologist : P. CRISPELL
Date : 10:25:01 15:28



Max. Depth: 116.47 (ft)

Depth Inc.: 0.164 (ft)

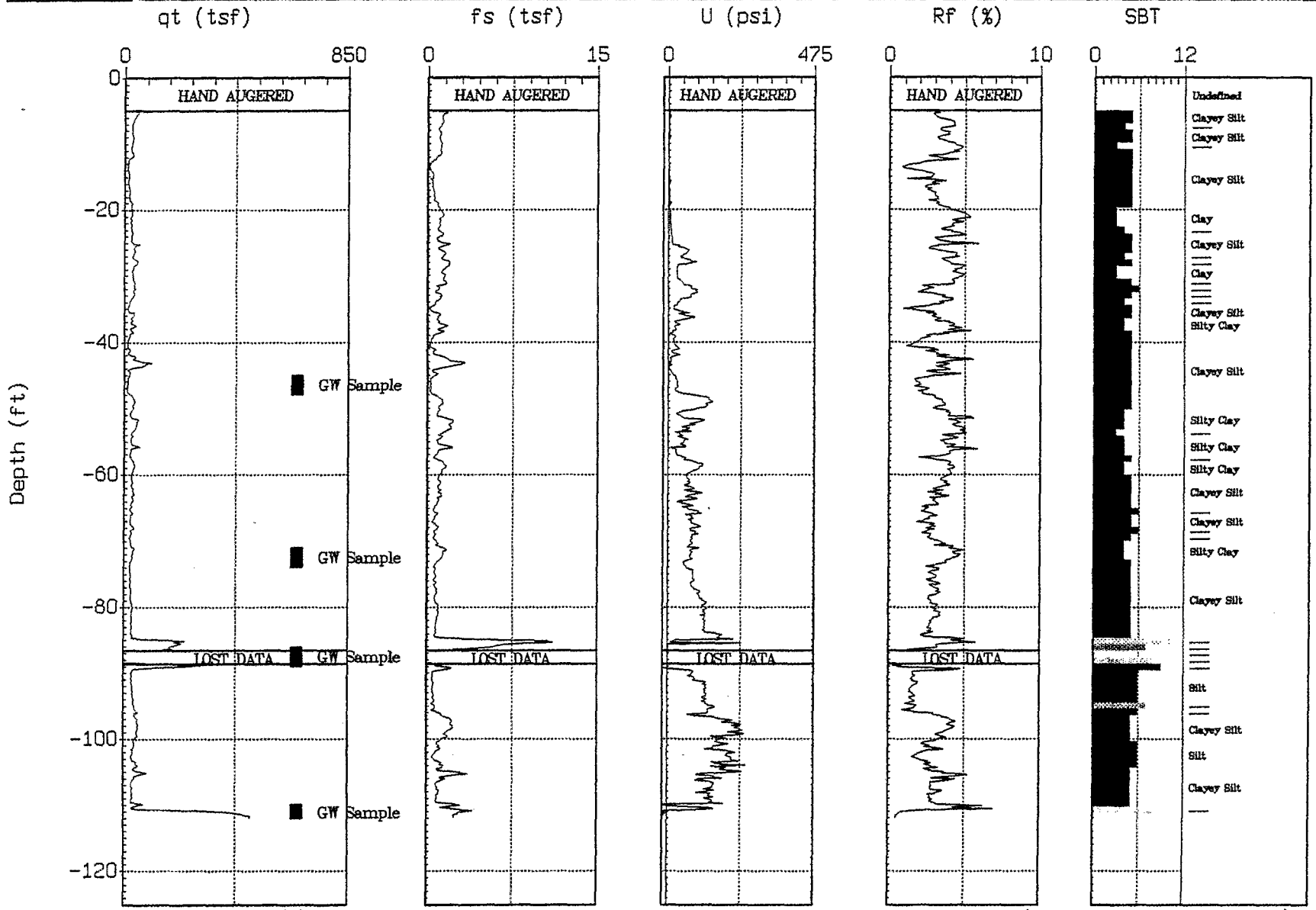
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

URS CORPORATION

Site : FRONTIER FERT.
Location : CPT-18

Geologist : P. CRISPELL
Date : 10:26:01 11:29



Max. Depth: 111.88 (ft)

Depth Inc.: 0.164 (ft)

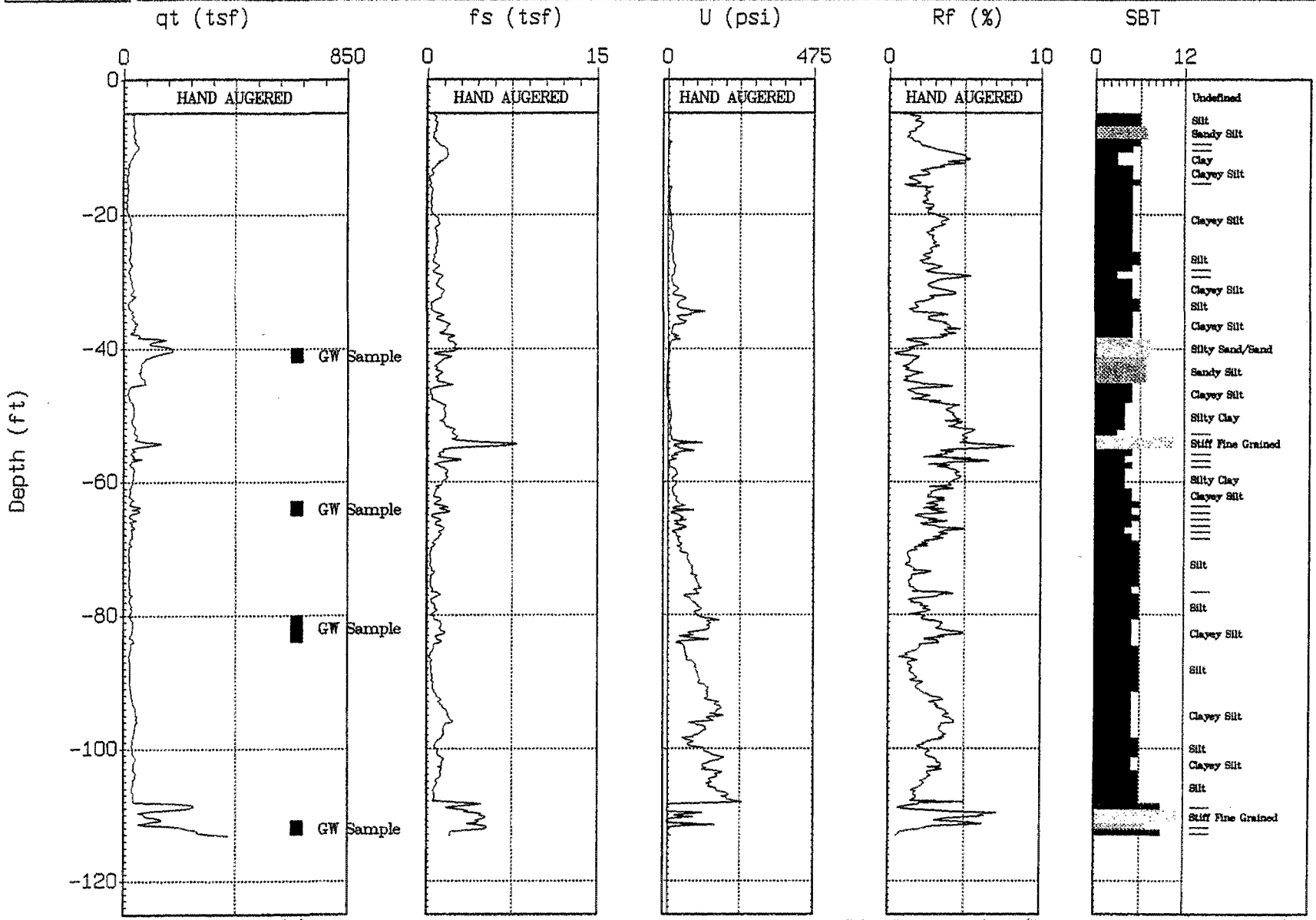
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

URS CORPORATION

Site : FRONTIER FERT.
Location : CPT-19

Geologist : P. CRISPELL
Date : 10:29:01 12:59



Max. Depth: 113.19 (ft)

Depth Inc.: 0.164 (ft)

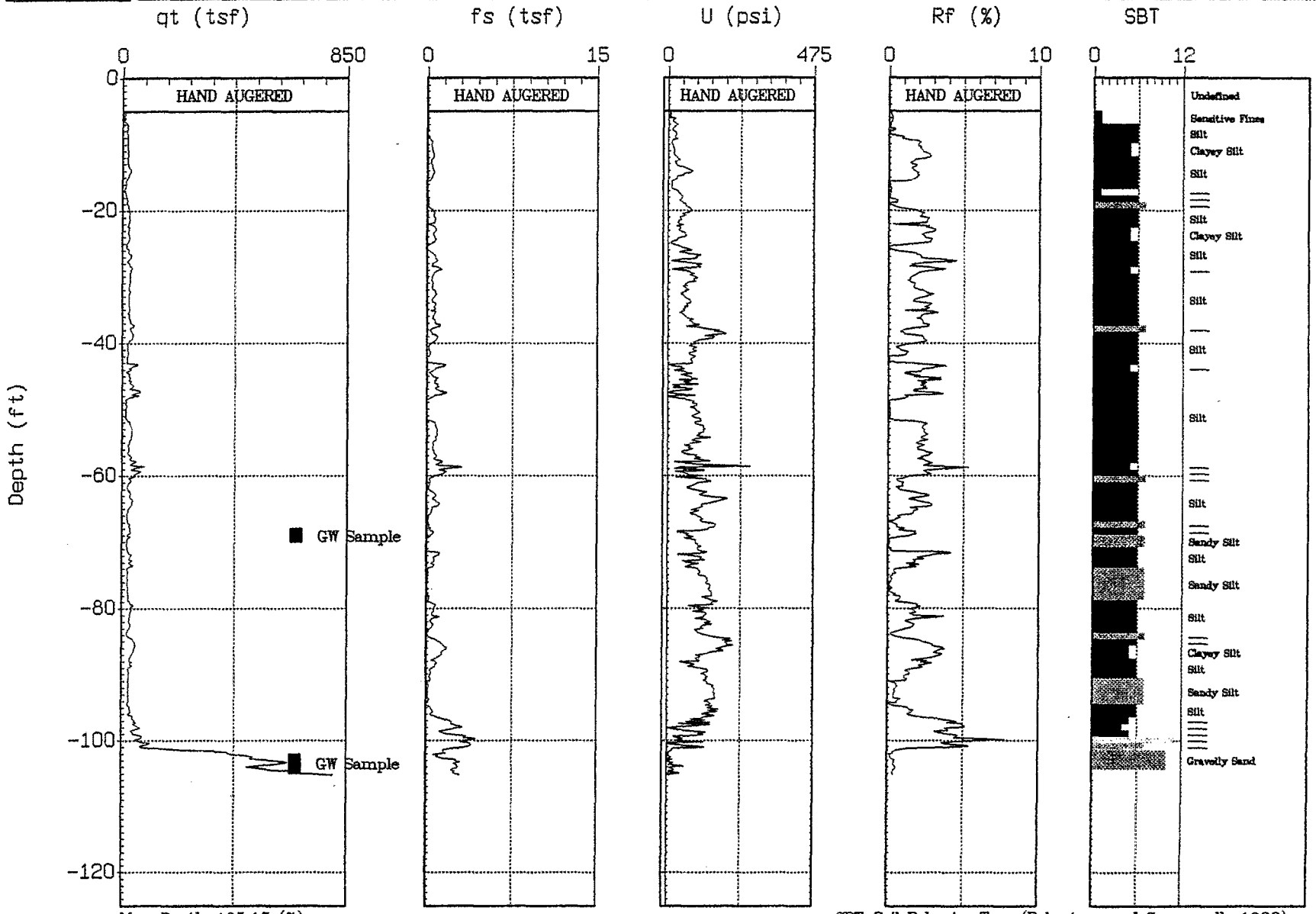
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

URS CORPORATION

Site : FRONTIER FERT.
Location : CPT-20

Geologist : P. CRISPELL
Date : 10:23:01 16:42



Max. Depth: 105.15 (ft)

Depth Inc.: 0.164 (ft)

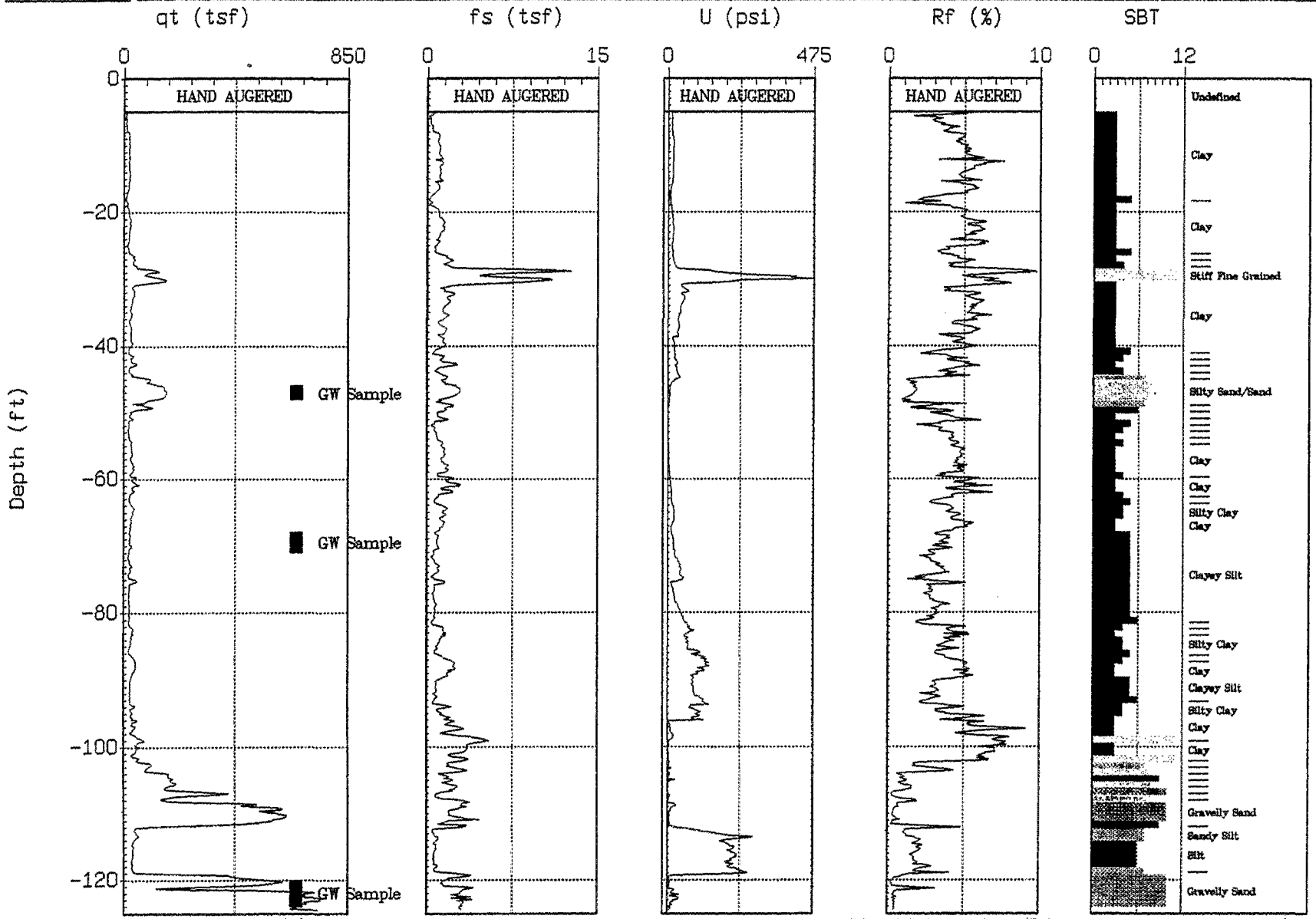
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

URS CORPORATION

Site : FRONTIER FERT.
Location : CPT-21

Geologist : P. CRISPELL
Date : 10:18:01 11:55



Max. Depth: 124.51 (ft)

Depth Inc.: 0.164 (ft)

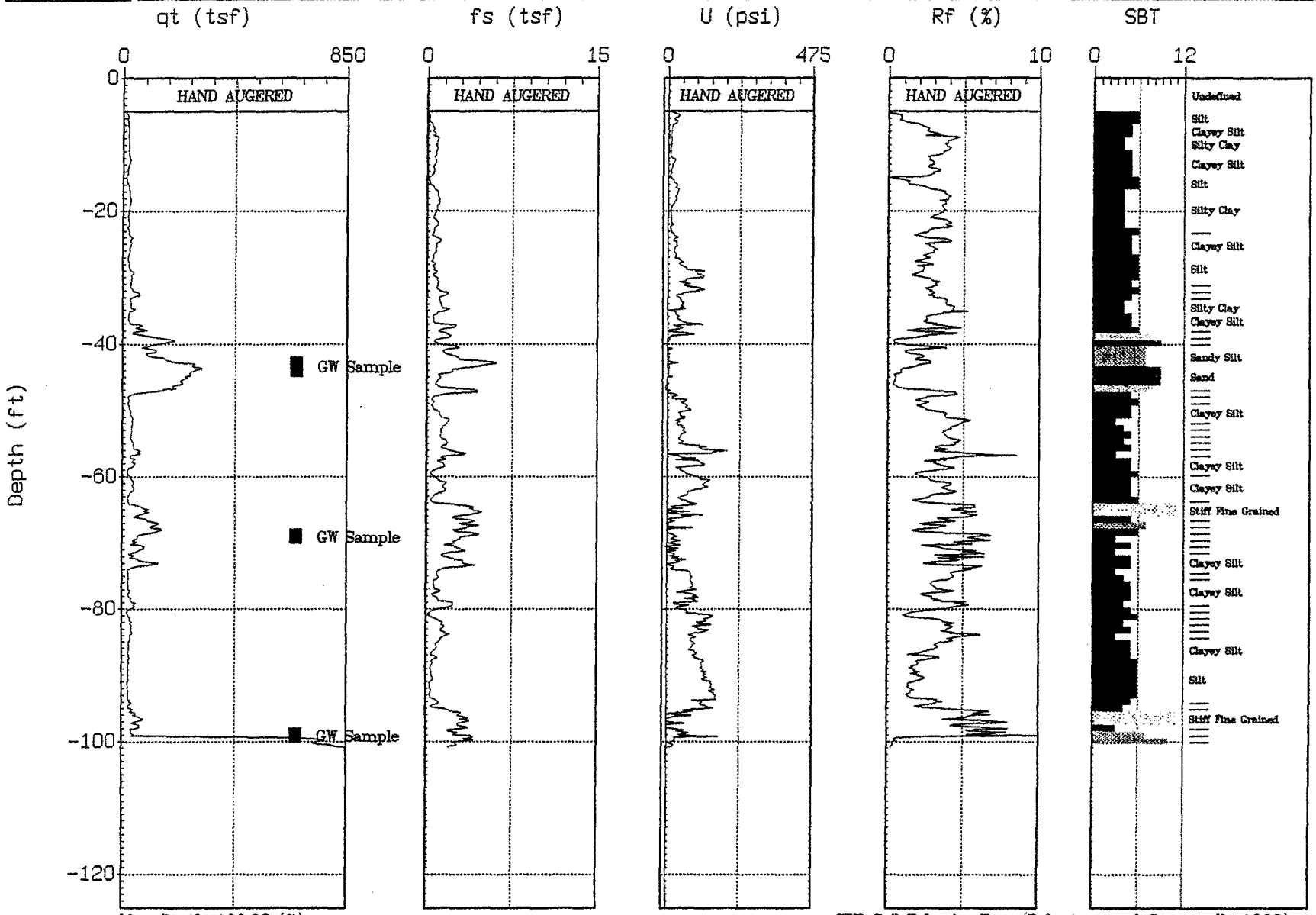
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

URS CORPORATION

Site : FRONTIER FERT.
Location : CPT-22

Geologist : P. CRISPELL
Date : 10:19:01 08:30



Max. Depth: 100.88 (ft)

Depth Inc.: 0.164 (ft)

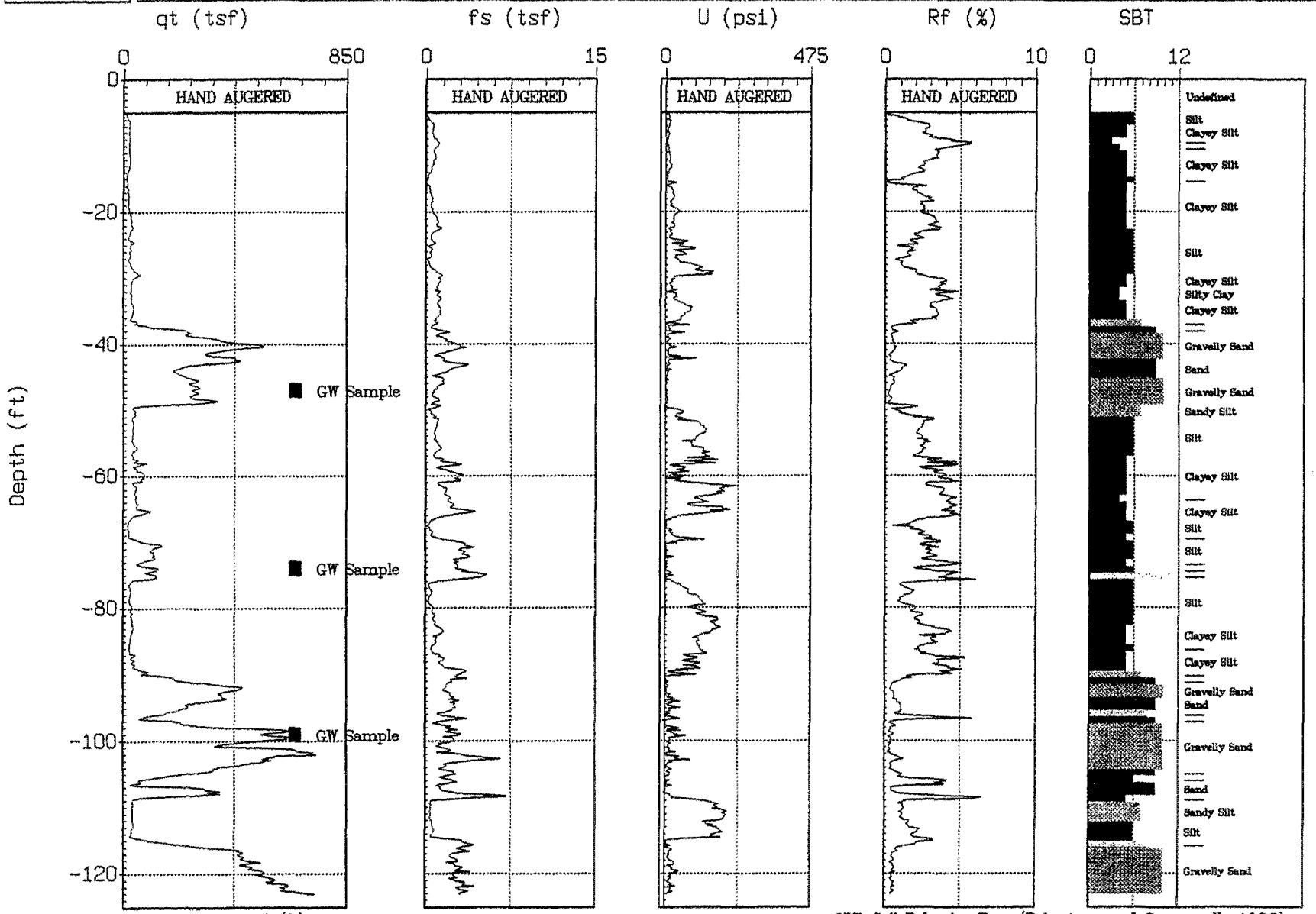
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

URS CORPORATION

Site : FRONTIER FERT.
Location : CPT-23

Geologist : P. CRISPELL
Date : 10:22:01 16:42



Max. Depth: 123.03 (ft)

Depth Inc.: 0.164 (ft)

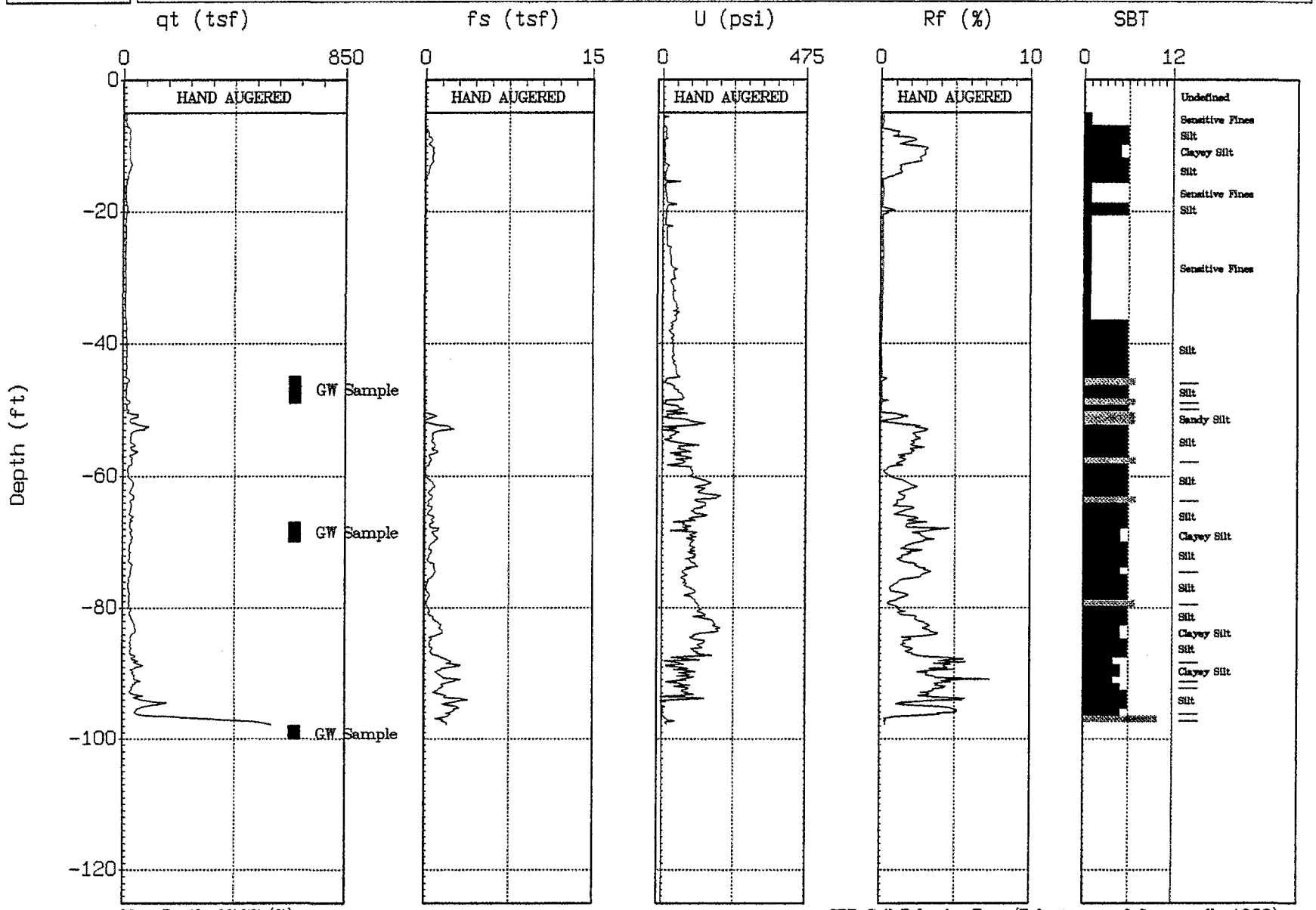
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

URS CORPORATION

Site : FRONTIER FERT.
Location : CPT-24

Geologist : P. CRISPELL
Date : 10:24:01 11:05



Max. Depth: 97.77 (ft)

Depth Inc.: 0.164 (ft)

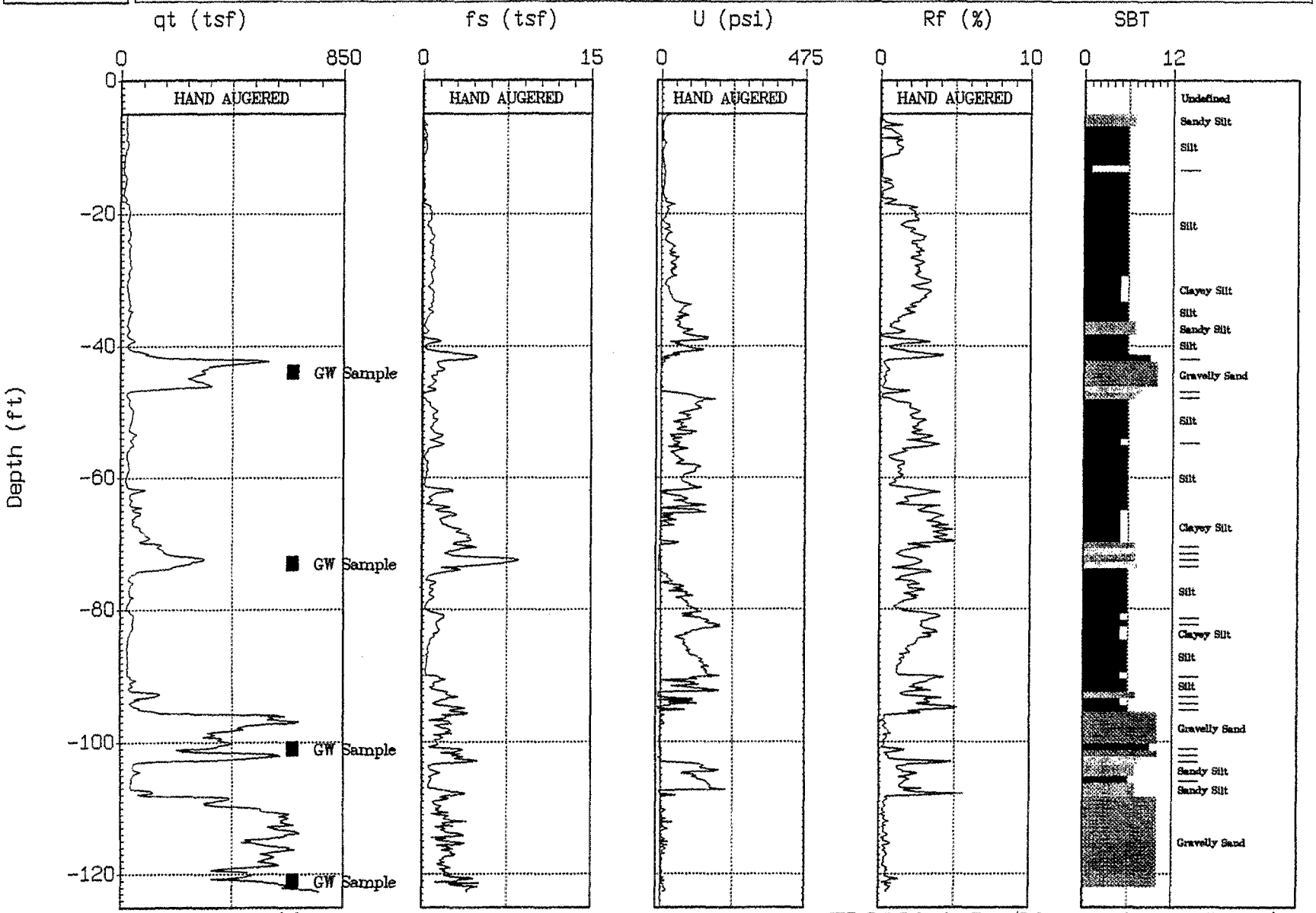
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

URS CORPORATION

Site : FRONTIER FERT.
Location : CPT-25

Geologist : P. CRISPELL
Date : 10:22:01 11:03



Max. Depth: 122.70 (ft)

Depth Inc.: 0.164 (ft)

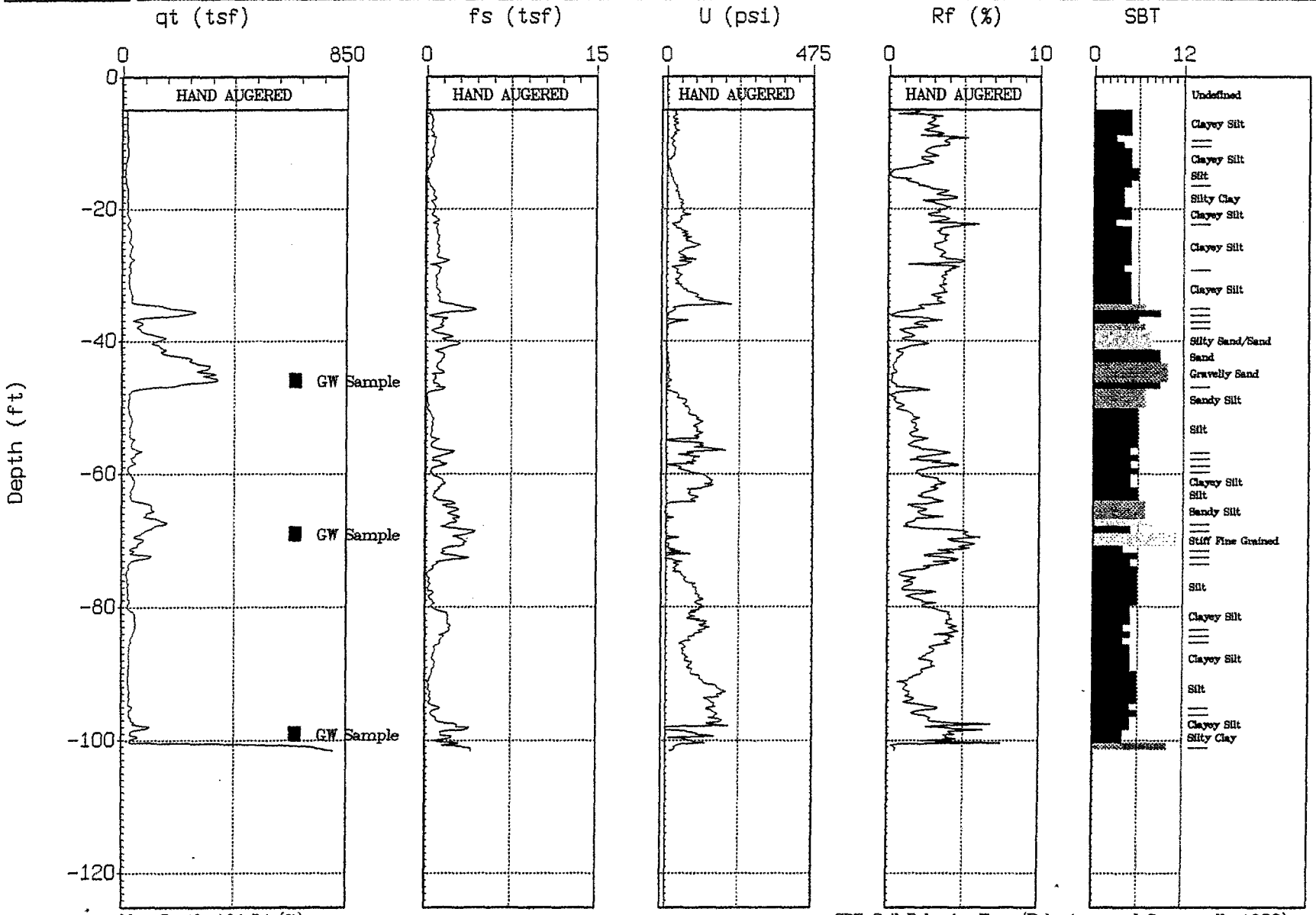
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

URS CORPORATION

Site : FRONTIER FERT.
Location : CPT-26

Geologist : P. CRISPELL
Date : 10:19:01 12:21



Max. Depth: 101.54 (ft)

Depth Inc.: 0.164 (ft)

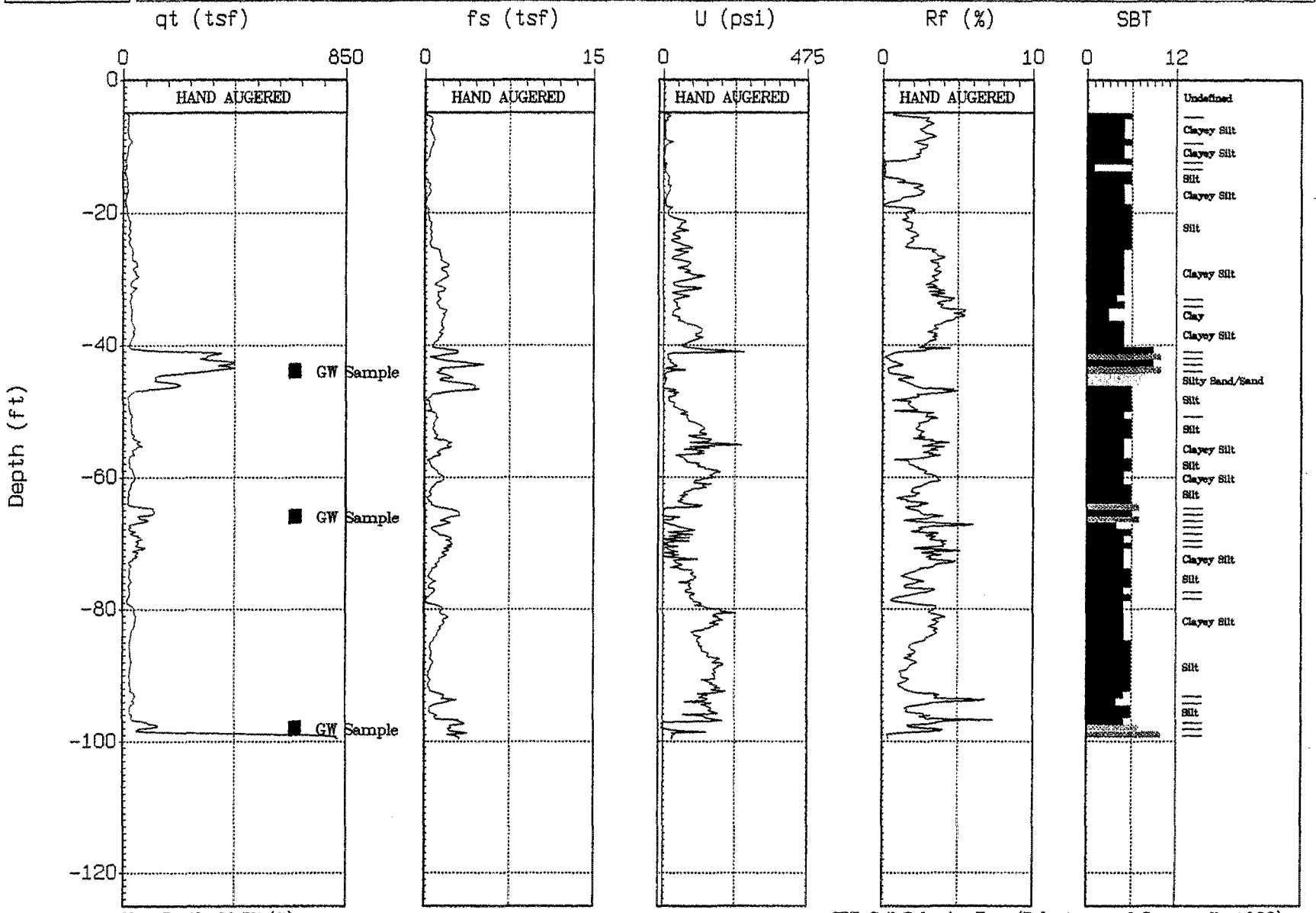
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

URS CORPORATION

Site : FRONTIER FERT.
Location : CPT-27

Geologist : P. CRISPELL
Date : 10:23:01 11:51



Max. Depth: 99.57 (ft)

Depth Inc.: 0.164 (ft)

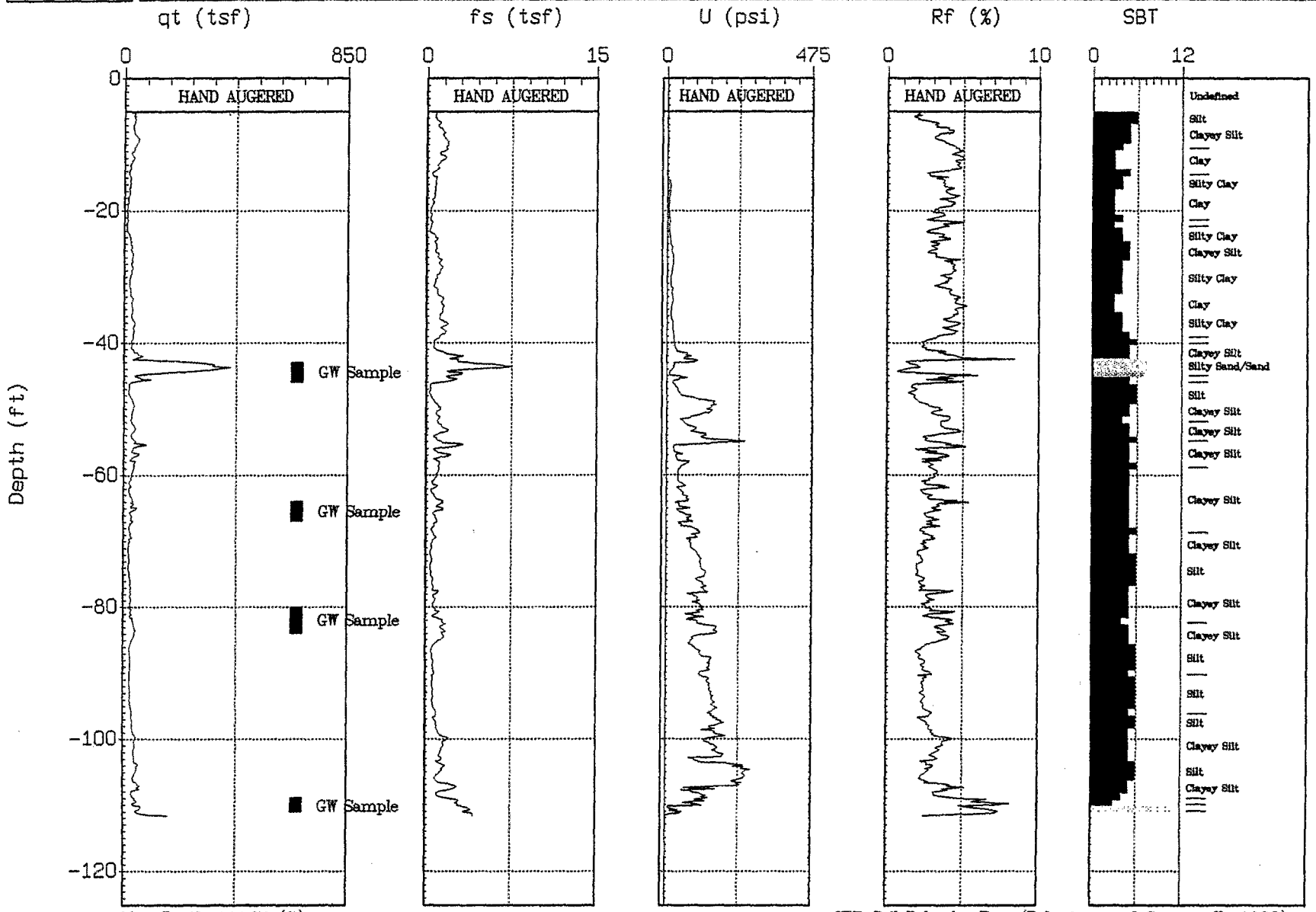
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

URS CORPORATION

Site : FRONTIER FERT.
Location : CPT-28

Geologist : P. CRISPELL
Date : 11:29:01 13:14



Max. Depth: 111.71 (ft)

Depth Inc.: 0.164 (ft)

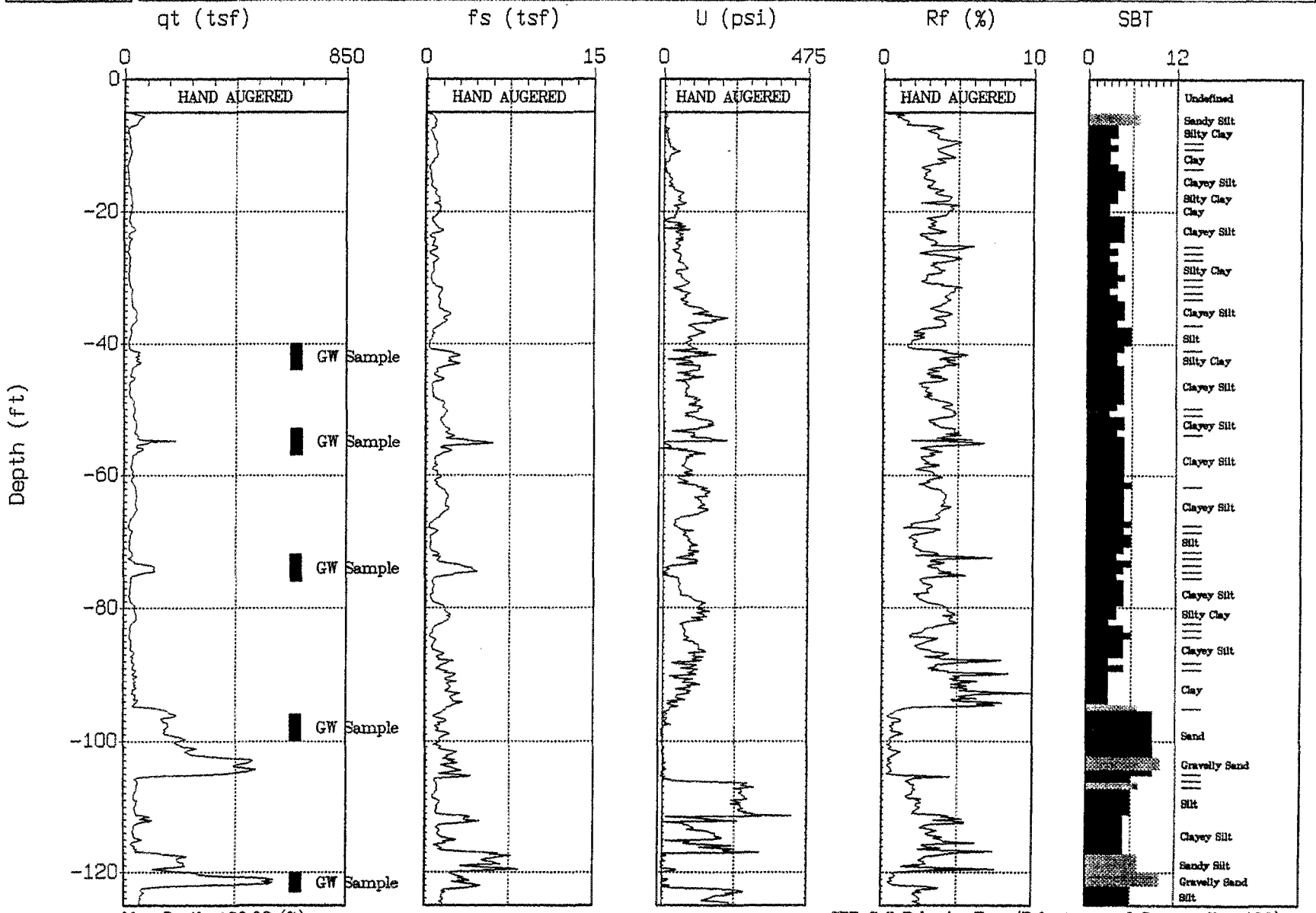
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

URS CORPORATION

Site : FRONTIER FERT.
Location : CPT-31

Geologist : P. CRISPELL
Date : 11:14:01 15:48



Max. Depth: 130.08 (ft)

Depth Inc.: 0.164 (ft)

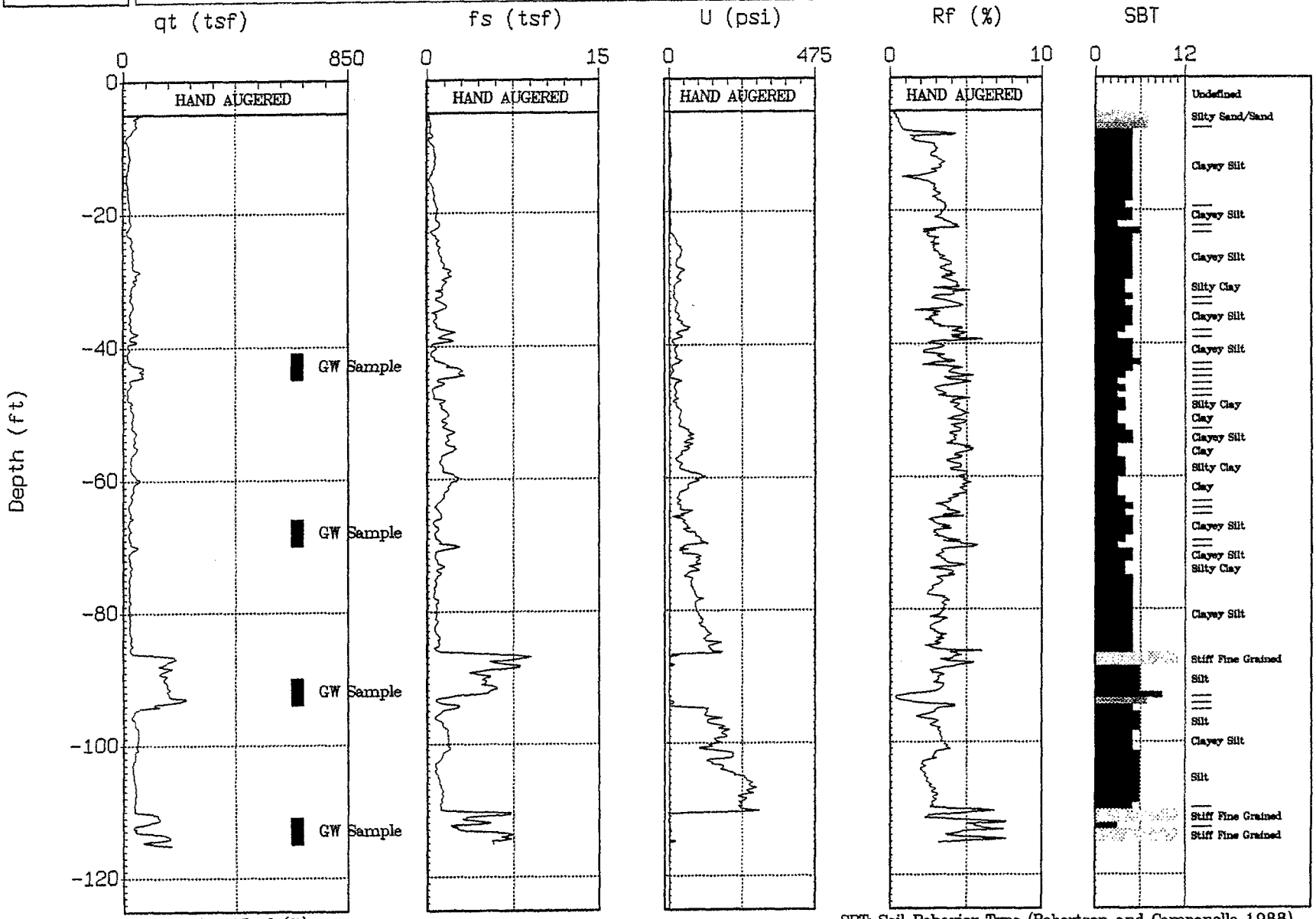
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

URS CORPORATION

Site : FRONTIER FERT.
Location : CPT-32

Geologist : P. CRISPELL
Date : 11:27:01 11:22



Max. Depth: 115.16 (ft)

Depth Inc.: 0.164 (ft)

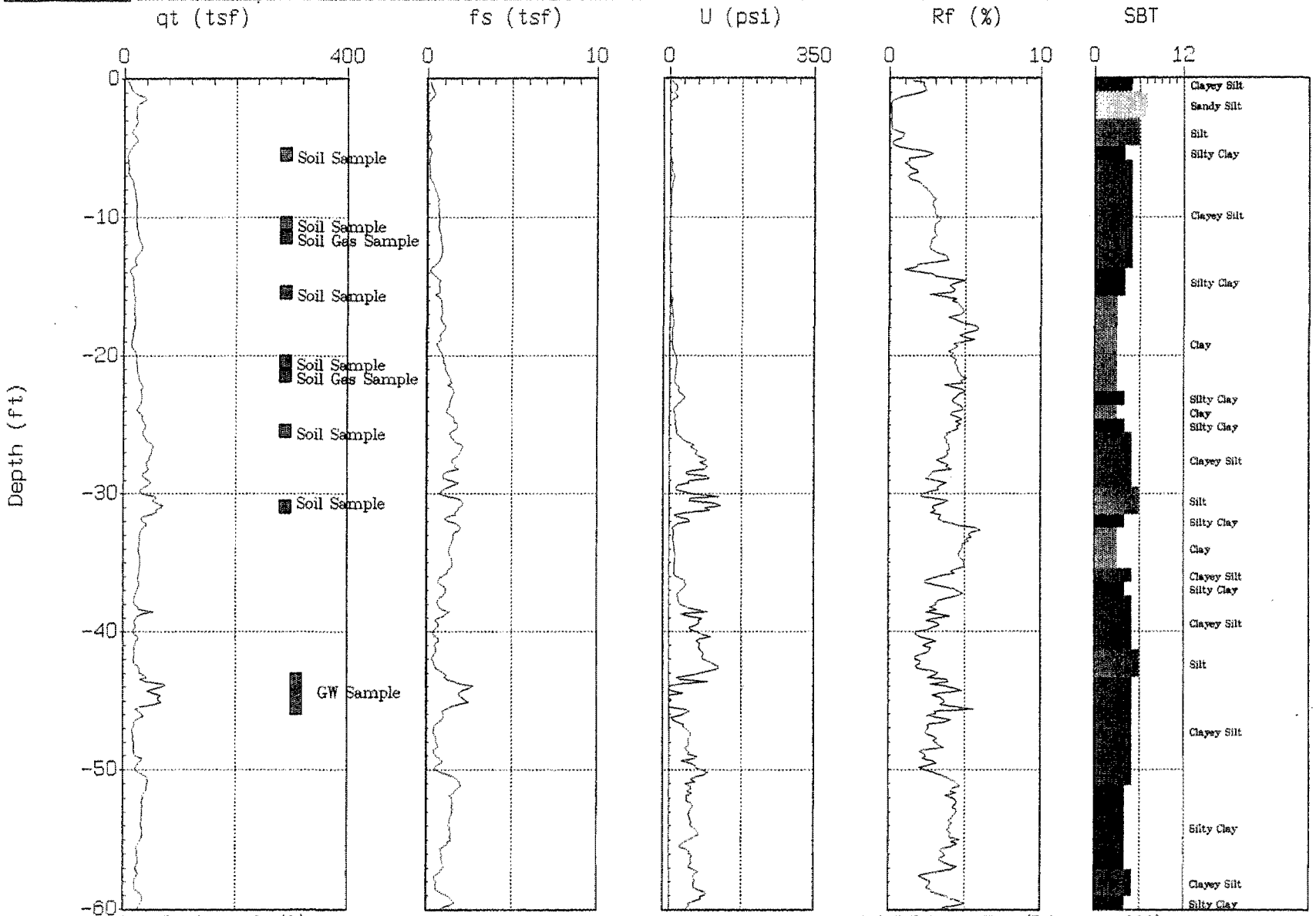
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

URS CORPORATION

Site : FRONTIER FERTILIZER
Location : CPT-34

Geologist : P. CRISPEL
Date : 12:19:01 15:06



Max. Depth: 114.01 (ft)

Depth Inc.: 0.164 (ft)

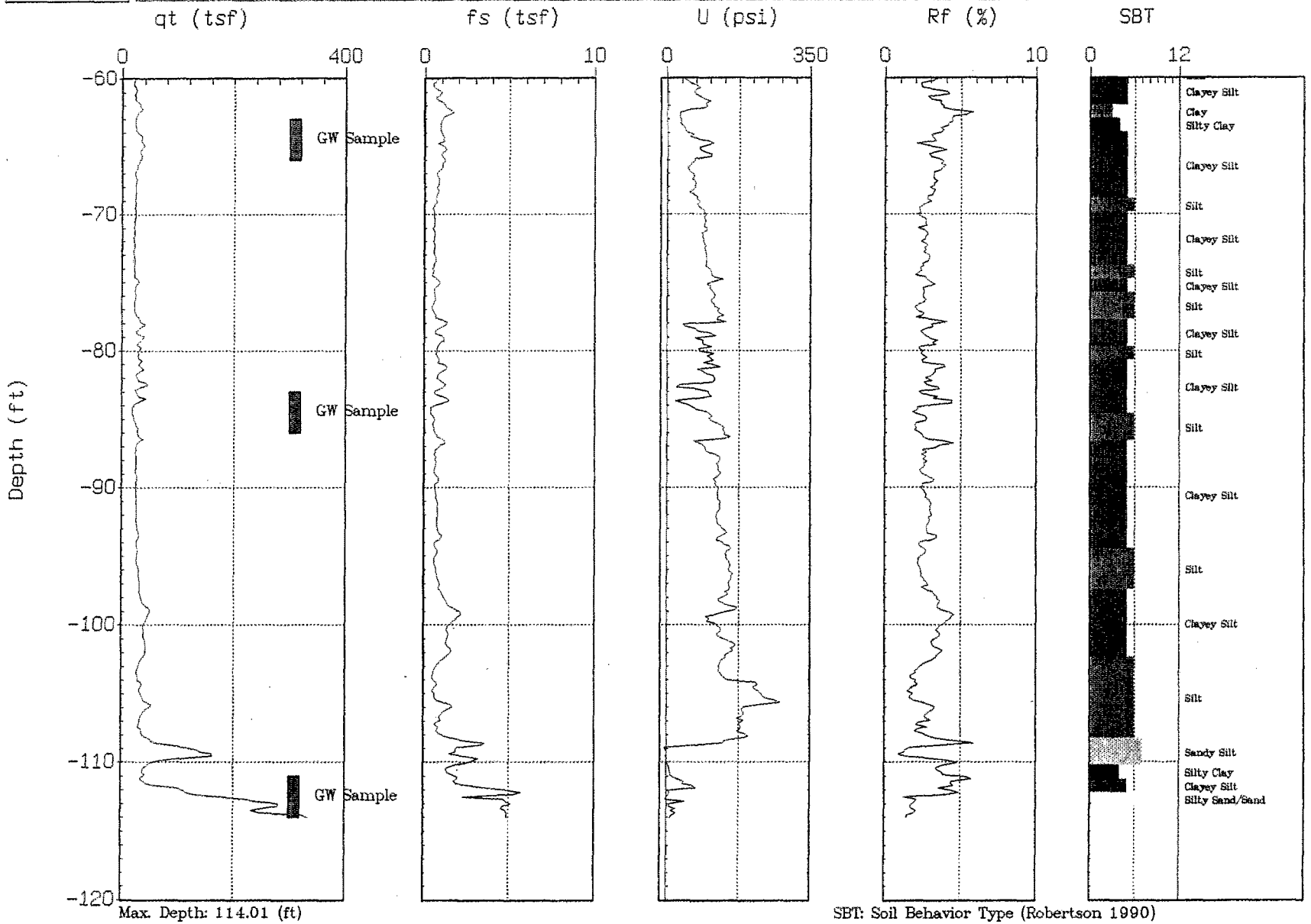
SBT: Soil Behavior Type (Robertson 1990)

GREGG

URS CORPORATION

Site : FRONTIER FERTILIZER
Location : CPT-34

Geologist : P. CRISPEL
Date : 12:19:01 15:06



Max. Depth: 114.01 (ft)

Depth Inc.: 0.164 (ft)

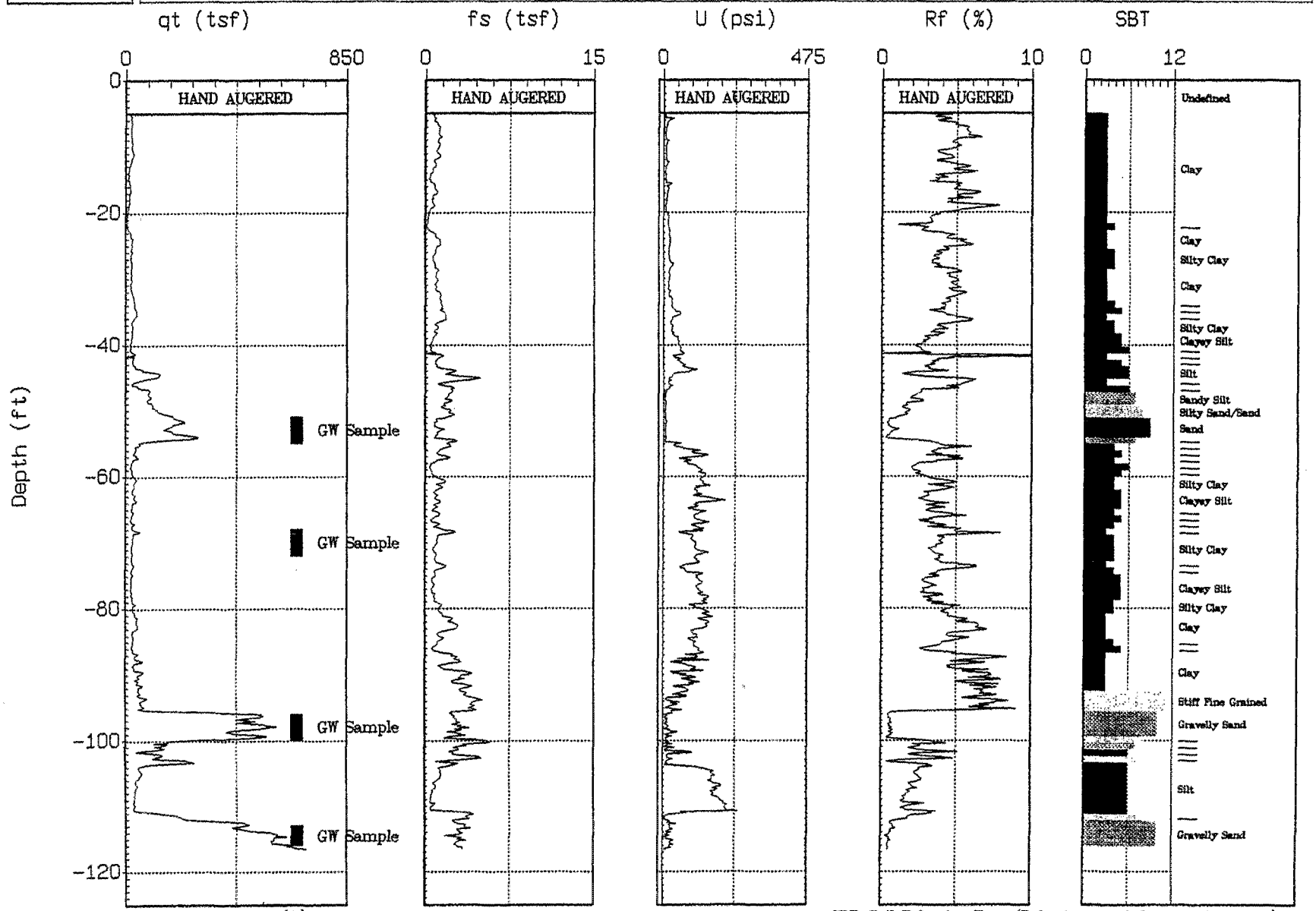
SBT: Soil Behavior Type (Robertson 1990)

GREGG

URS CORPORATION

Site : FRONTIER FERT.
Location : CPT-37

Geologist : P. CRISPELL
Date : 11:13:01 12:45



Max. Depth: 116.63 (ft)

Depth Inc.: 0.164 (ft)

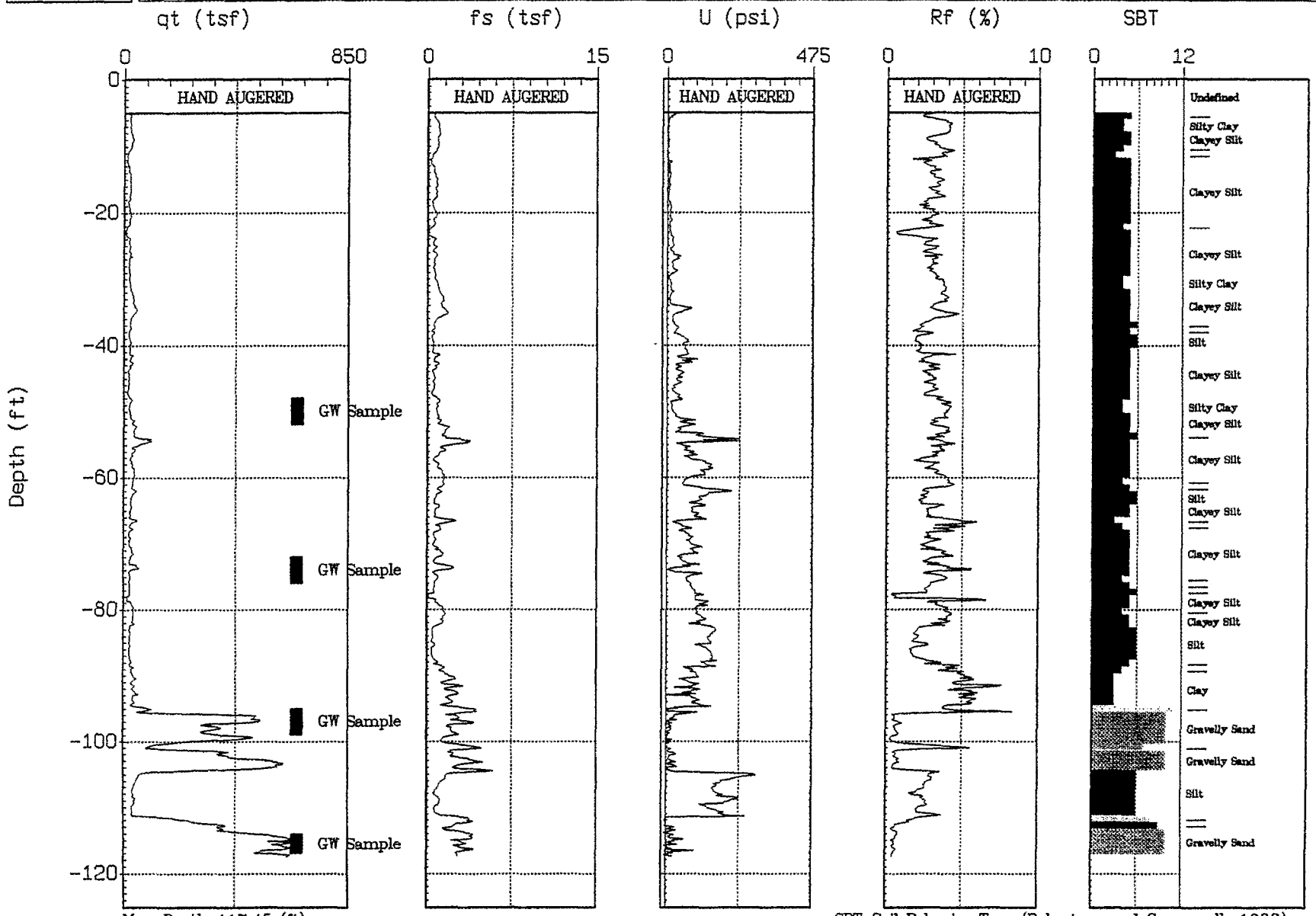
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

URS CORPORATION

Site : FRONTIER FERT.
Location : CPT-38

Geologist : P. CRISPELL
Date : 11:14:01 09:54



Max. Depth: 117.45 (ft)

Depth Inc.: 0.164 (ft)

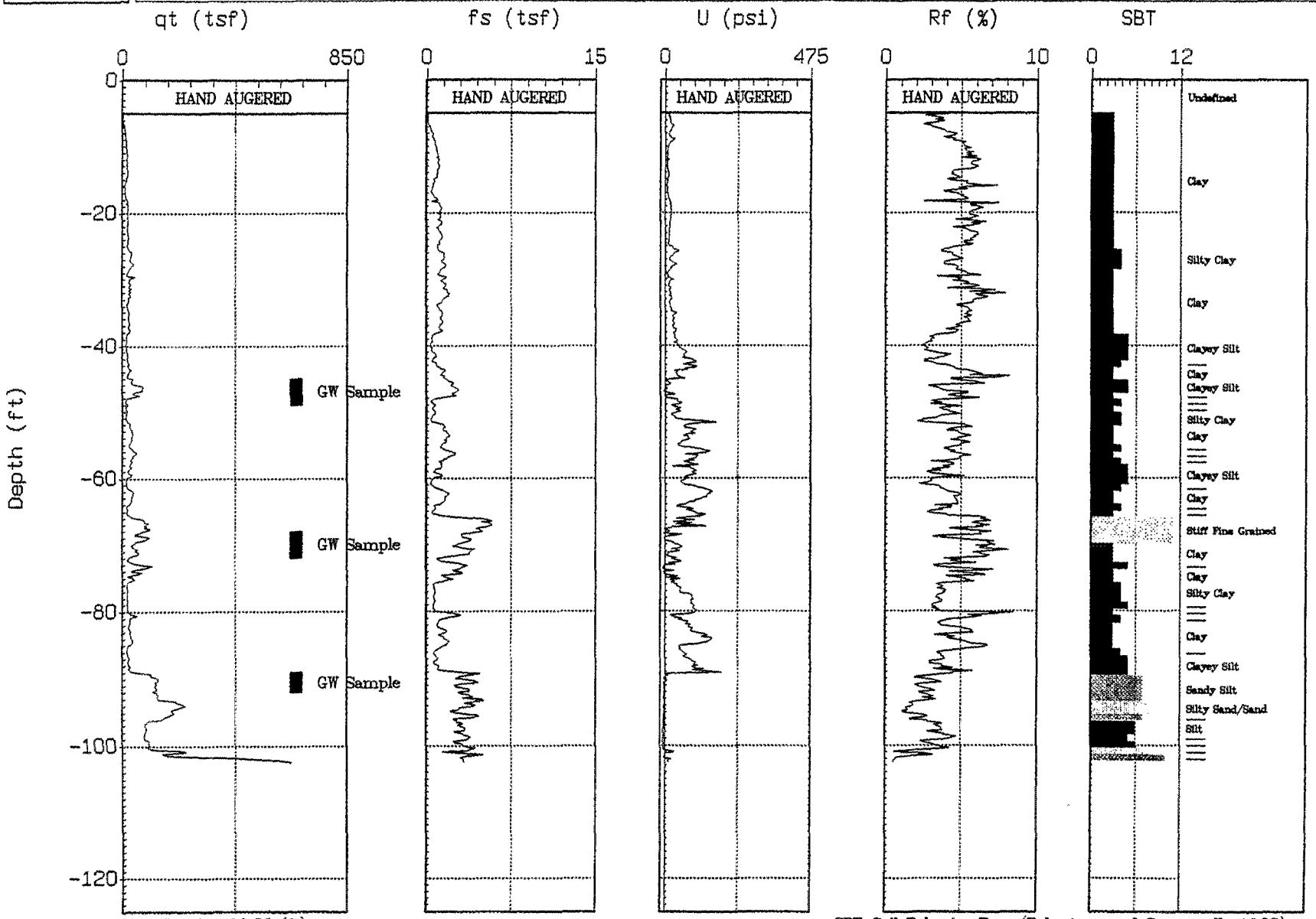
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

URS CORPORATION

Site : FRONTIER FERT.
Location : CPT-39

Geologist : P. CRISPELL
Date : 11:12:01 16:57



Max. Depth: 102.53 (ft)

Depth Inc.: 0.164 (ft)

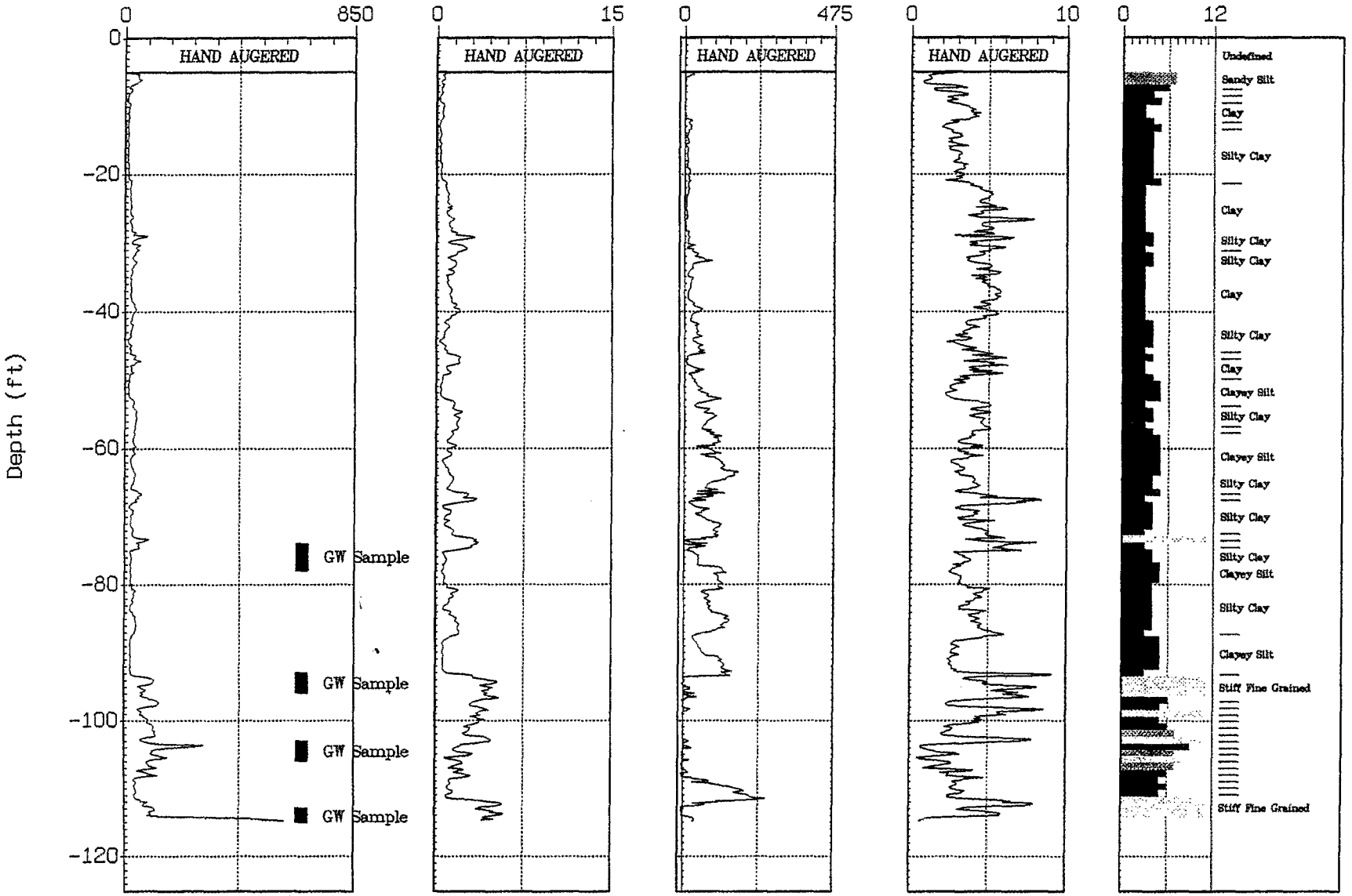
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

URS CORPORATION

Site : FRONTIER FERT.
Location : CPT-40

Geologist : P. CRISPELL
Date : 11:12:01 10:37



Max. Depth: 114.83 (ft)

Depth Inc.: 0.164 (ft)

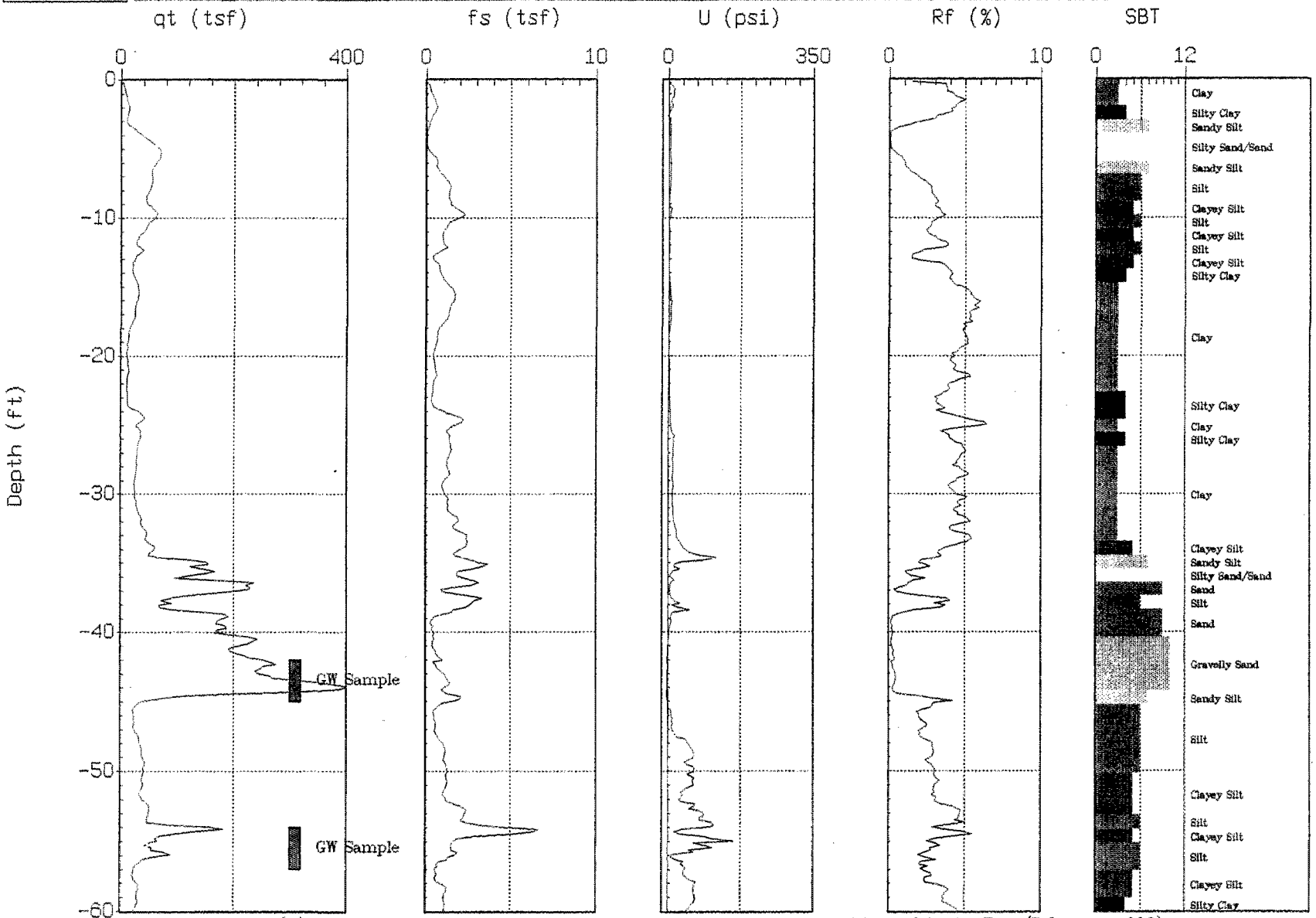
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

URS CORPORATION

Site : FRONTIER FERTILIZER
Location : CPT-41

Geologist : P. CRISPEL
Date : 12:18:01 15:14



Max. Depth: 114.01 (ft)

Depth Inc.: 0.164 (ft)

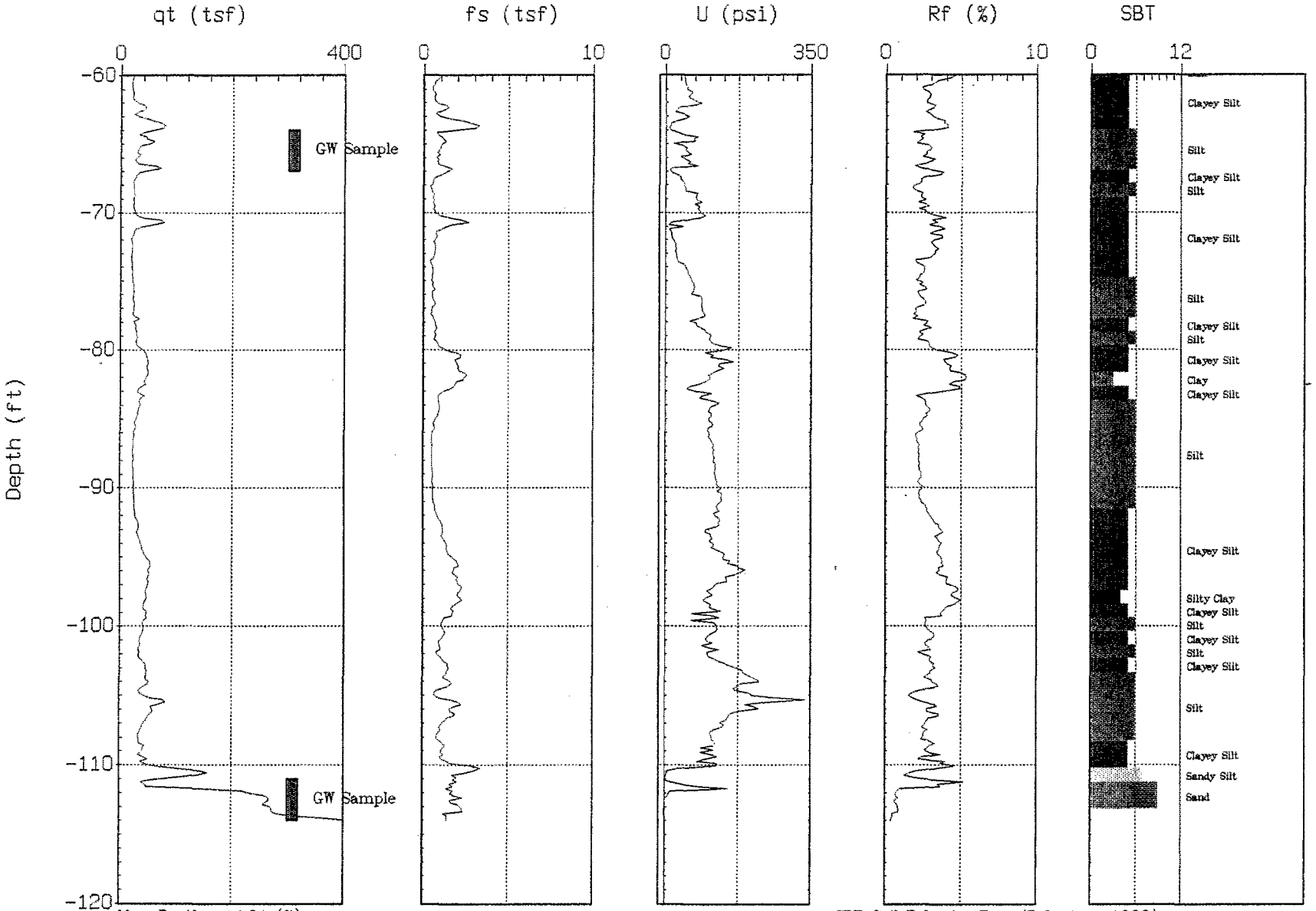
SBT: Soil Behavior Type (Robertson 1990)

GREGG

URS CORPORATION

Site : FRONTIER FERTILIZER
Location : CPT-41

Geologist : P. CRISPEL
Date : 12:18:01 15:14



Max. Depth: 114.01 (ft)

Depth Inc.: 0.164 (ft)

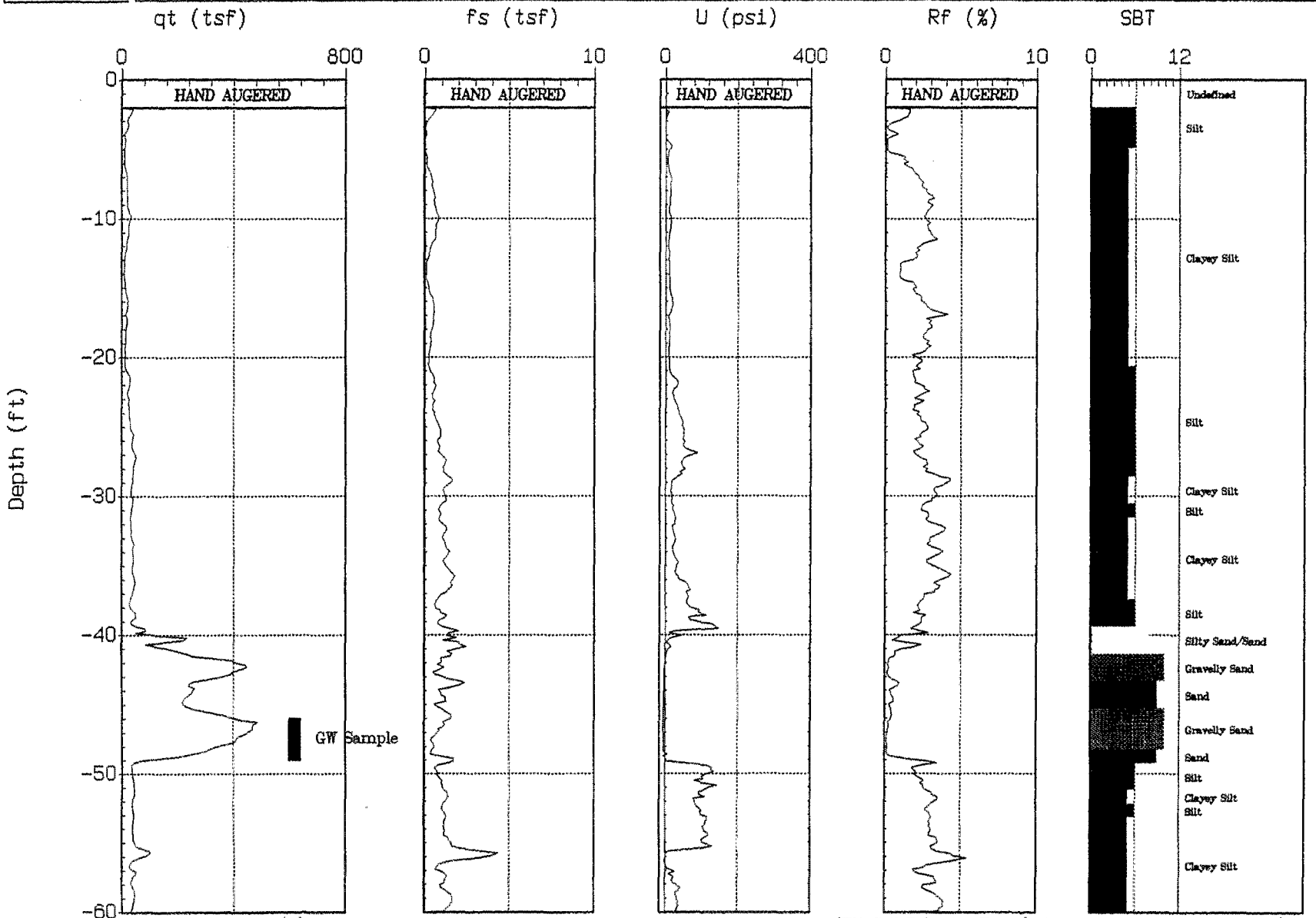
SBT: Soil Behavior Type (Robertson 1990)

GREGG

CH2M HILL

Site : FRONTIER FERT.
Location : CPT-50

Engineer : R. PEXTON
Date : 04:01:02 09:21



Max. Depth: 115.81 (ft)

Depth Inc.: 0.164 (ft)

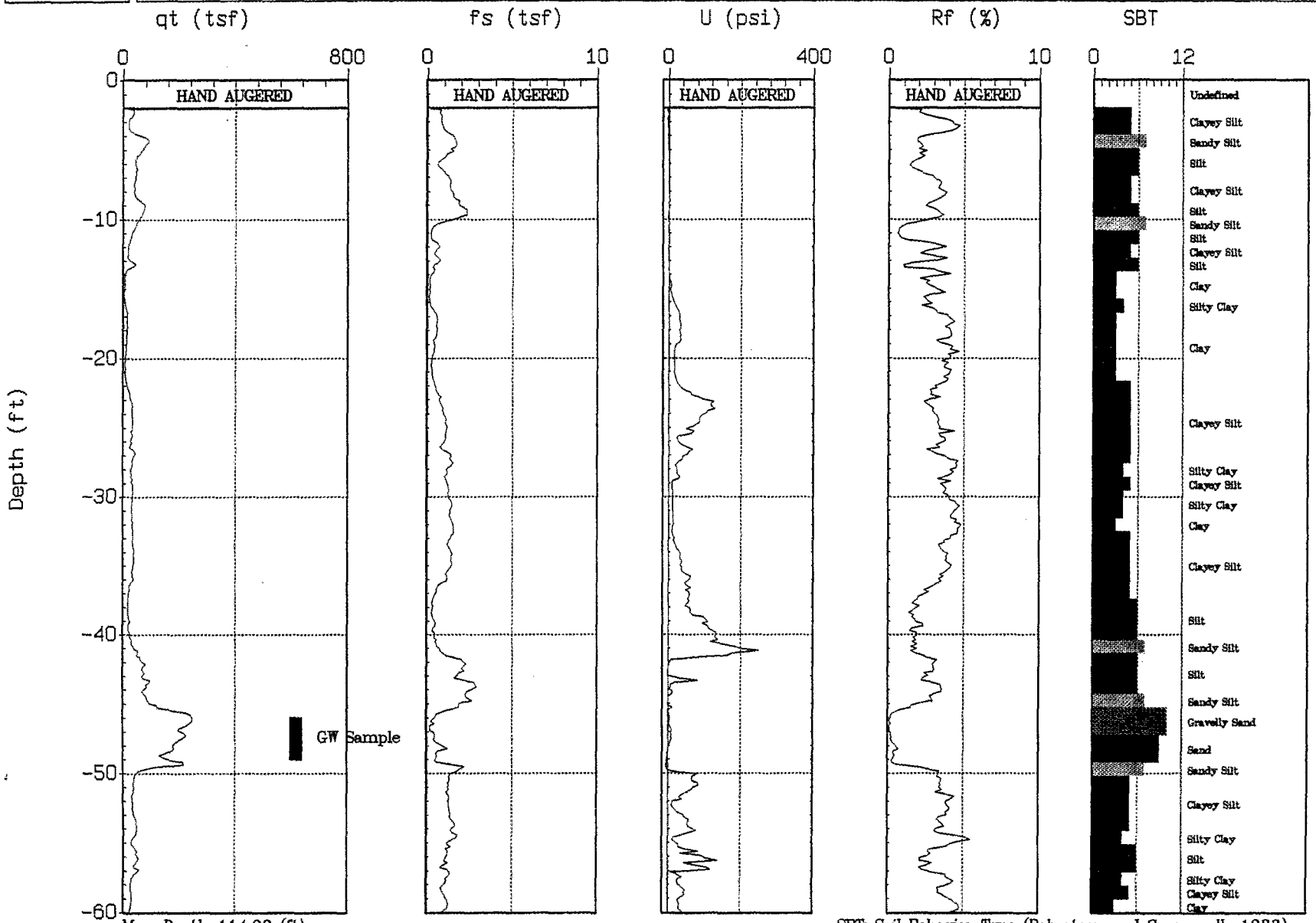
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

CH2M HILL

Site : FRONTIER FERT.
Location : CPT-51

Engineer : R. PEXTON
Date : 04:01:02 14:31



Max. Depth: 114.99 (ft)

Depth Inc.: 0.164 (ft)

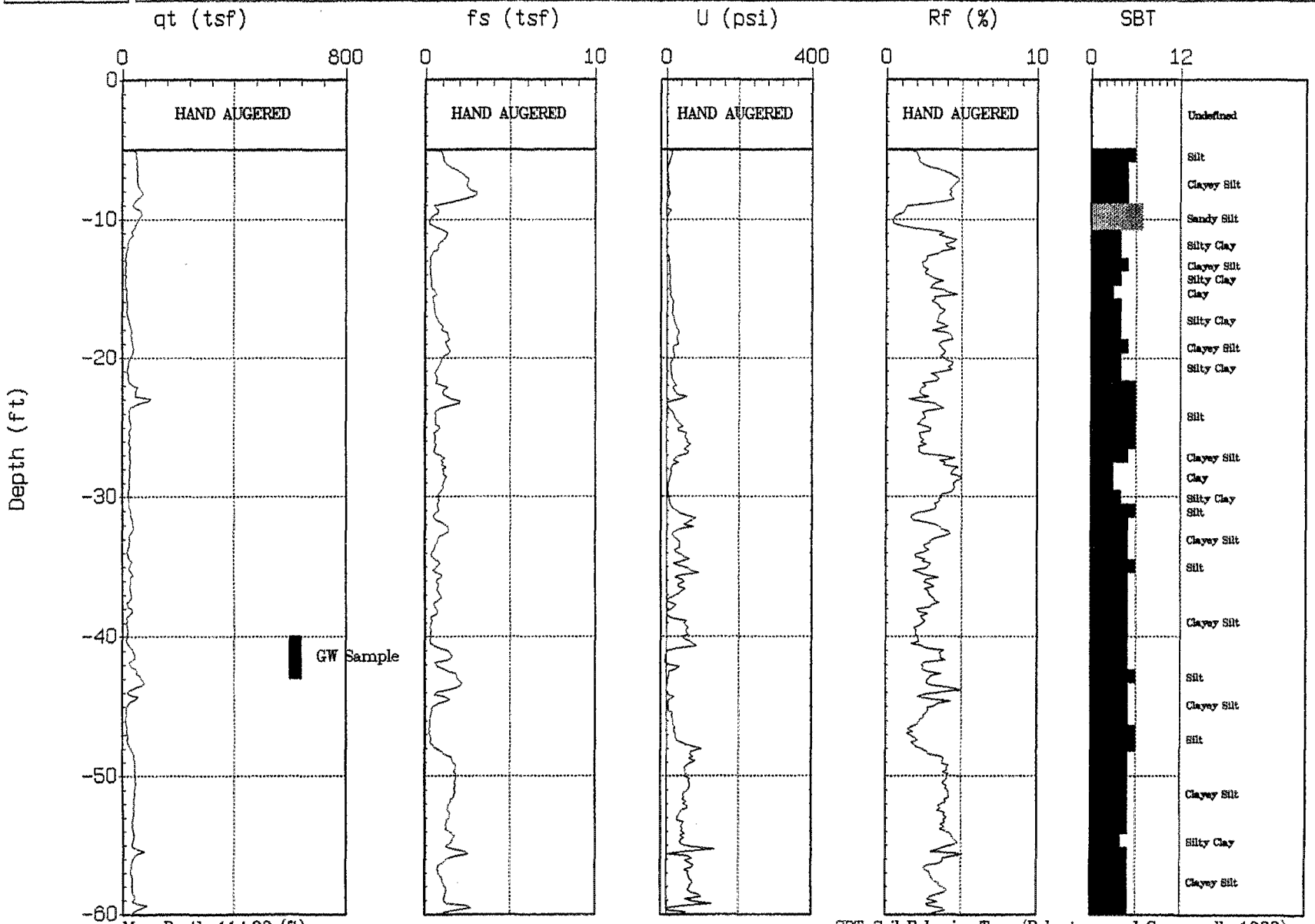
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

CH2M HILL

Site : FRONTIER FERT.
Location : CPT-52

Engineer : R. PEXTON
Date : 04:02:02 08:03



Max. Depth: 114.99 (ft)

Depth Inc.: 0.164 (ft)

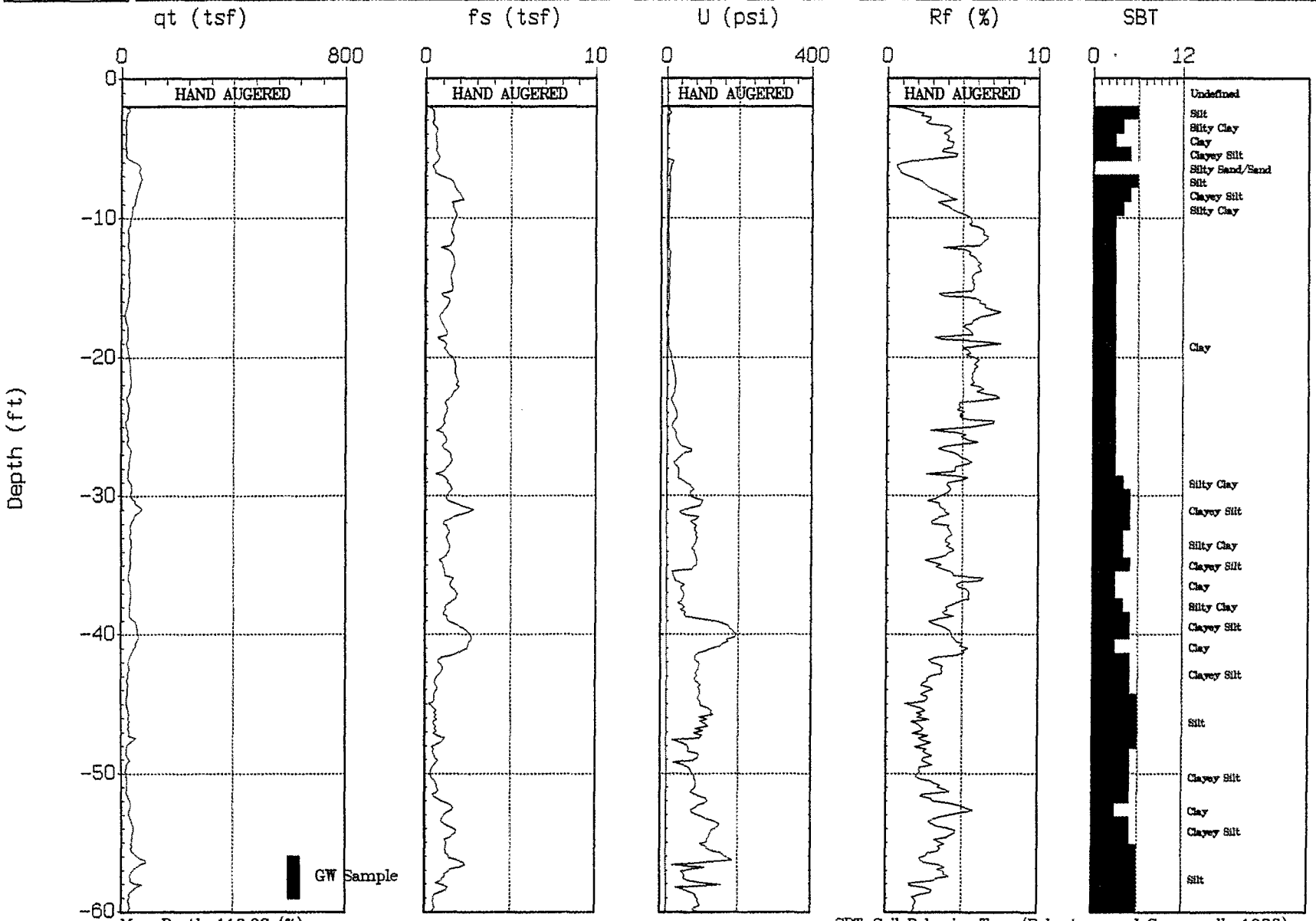
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

CH2M HILL

Site : FRONTIER FERT.
Location : CPT-53

Engineer : R. PEXTON
Date : 04:02:02 11:25



Max. Depth: 118.93 (ft)

Depth Inc.: 0.164 (ft)

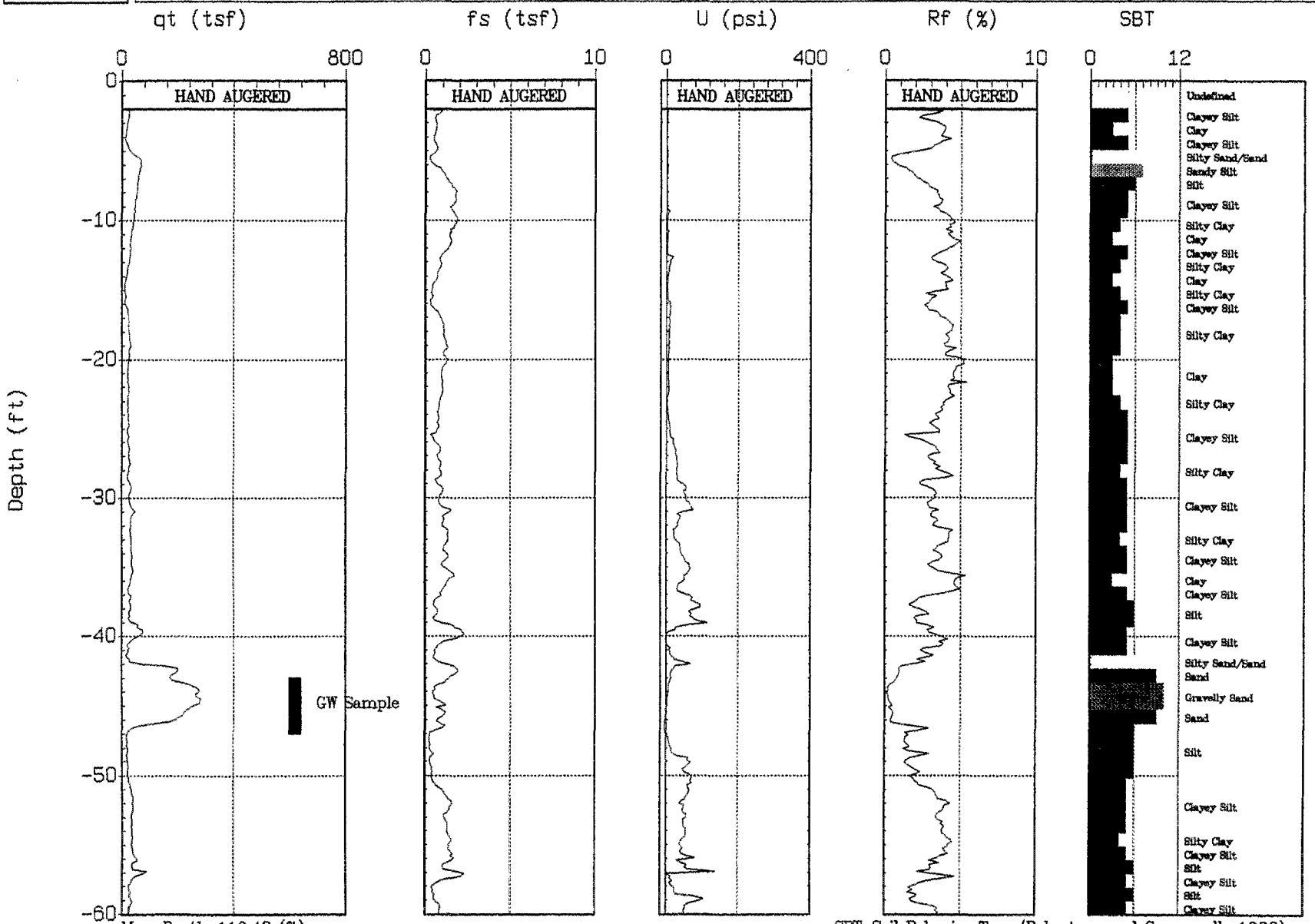
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

CH2M HILL

Site : FRONTIER FERT.
Location : CPT-54

Engineer : R. PEXTON
Date : 04:03:02 08:34



Max. Depth: 119.42 (ft)

Depth Inc.: 0.164 (ft)

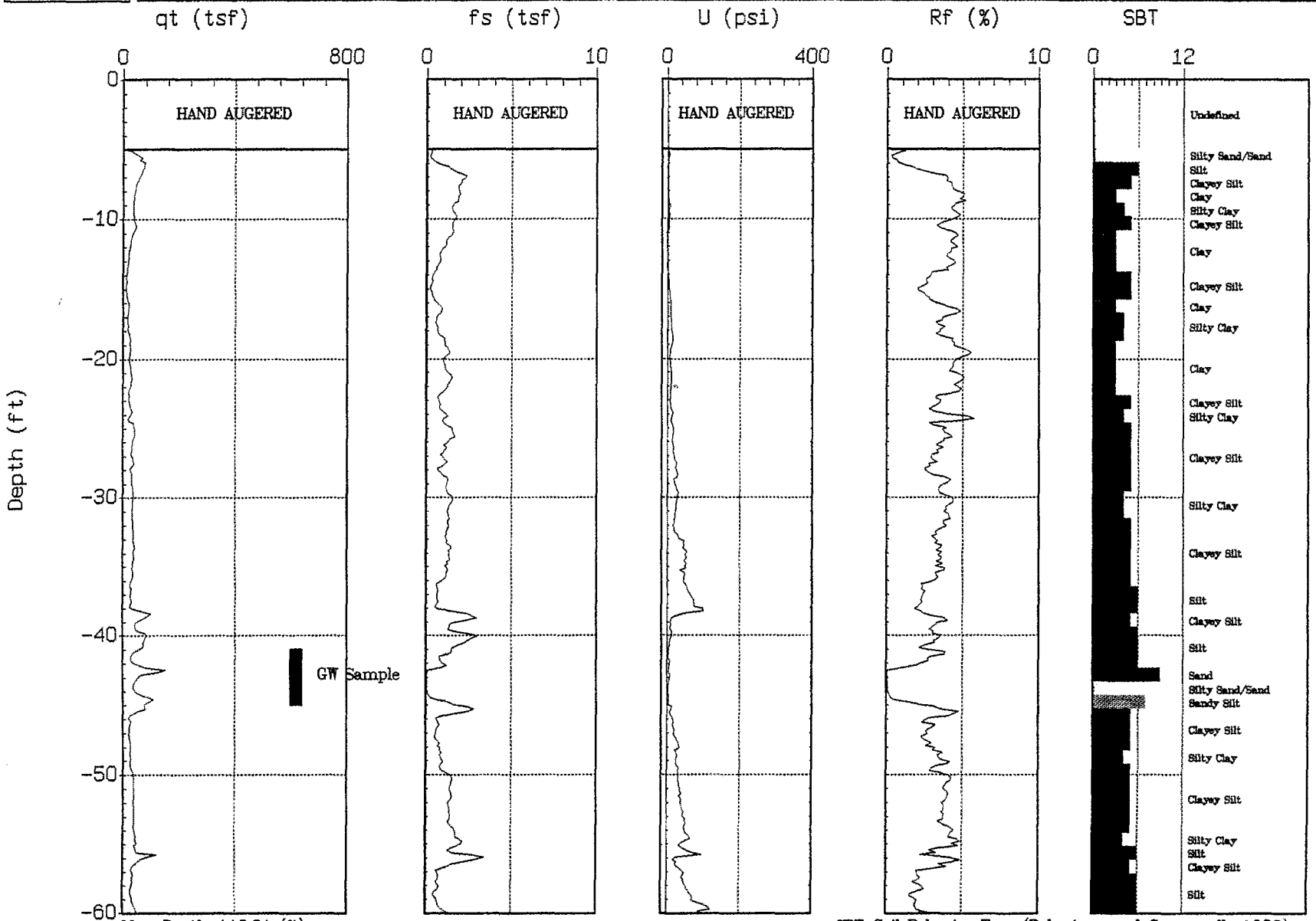
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

CH2M HILL

Site : FRONTIER FERT.
Location : CPT-56

Engineer : R. PEXTON
Date : 04:05:02 08:49



Max. Depth: 115.81 (ft)

Depth Inc.: 0.164 (ft)

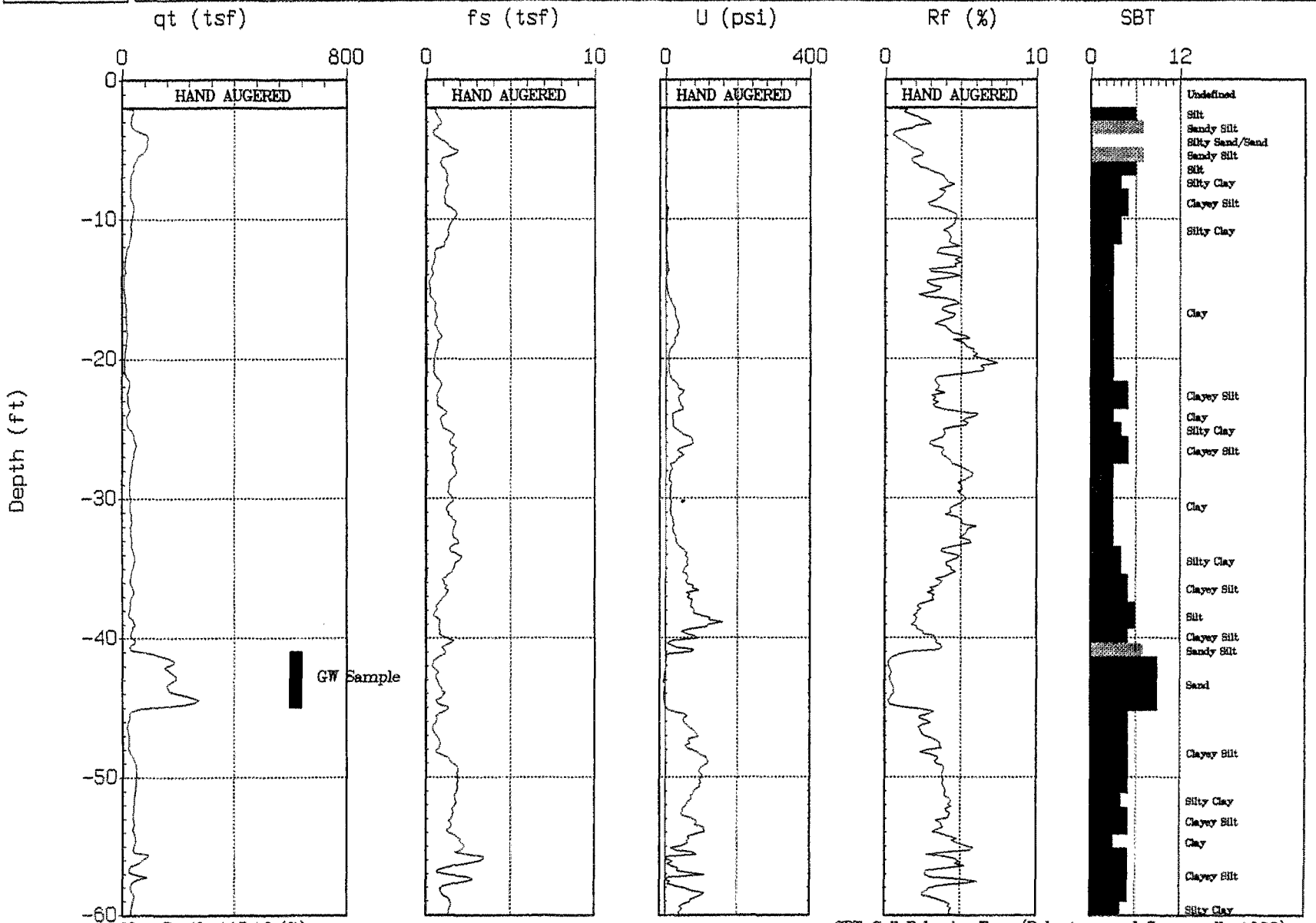
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

CH2M HILL

Site : FRONTIER FERT.
Location : CPT-58

Engineer : R. PEXTON
Date : 04:03:02 14:07



Max. Depth: 115.16 (ft)

Depth Inc.: 0.164 (ft)

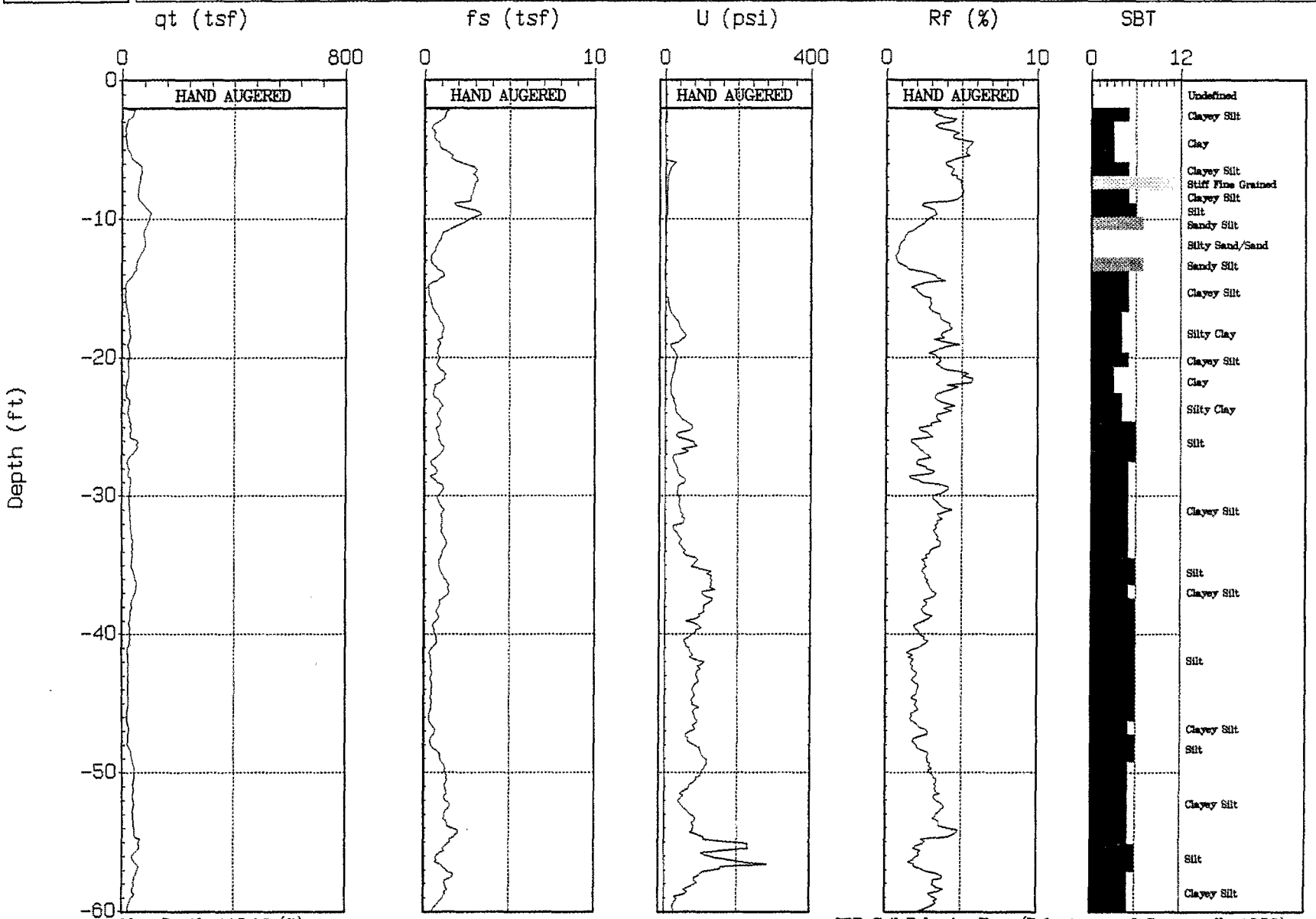
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

CH2M HILL

Site : FRONTIER FERT.
Location : CPT-59

Engineer : R. PEXTON
Date : 04:04:02 14:10



Max. Depth: 115.16 (ft)

Depth Inc.: 0.164 (ft)

SBT: Soil Behavior Type (Robertson and Campanella 1988)

Soil Boring

CH2MHILL

PROJECT NUMBER: 152293.PJ.04	BORING NUMBER: SB1	SHEET 1 OF 6

SOIL BORING LOG

PROJECT NAME: **Frontier Fertilizer Site, Davis, CA**	LOCATION: **2 ft southeast from CPT-1**
GROUND SURFACE ELEVATION:	DRILLING CONTRACTOR: **Gregg Drilling, Chris St. Pierre**
DRILLING METHOD AND EQUIPMENT: **Mud rottary Mobile-B80, 101 mm coring**	

WATER LEVELS, DATE, AND TIME:	DRILLING START DATE & TIME:	DRILLING FINISH DATE & TIME:	LOGGER:
N/A	**04/04/02**	**04/09/02**	**Rob Pexton, Ben Moayyad**

DEPTH BELOW SURFACE (FEET)	SPT BLOW COUNT 6"-6"(N)	SAMPLE INTERVAL DEPTH (FEET)	LENGTH OF RECOVERY OF CORE (INCHES)	SAMPLE NAME & TYPE E.G.cuttings	SYMBOLIC LOG	CORE DESCRIPTION: SOIL NAME, (USCS SYMBOL), COLOR (STAINING), MOISTURE CONTENT, RELATIVE DENSITY, CONSISTENCY, SOIL STRUCTURE, MINERALOGY, ODOR, PRESENCE OF NON AQUEOUS PHASE LIQUID, OTHER CONTAMINANTS	WELL: SYMBOLIC LOG	WELL: DRILLING RATE, DRILLING FLUID LOST CIRCULATION ZONES, TESTS CONDUCTED WATER LEVELS, WELL INSTRUMENTATION
1			0.5			Lean Clay (CL), brown 10YR 4/3, moist, soft, low plasticity	CL	0 ppm on OVM, O_2 - good, LEL: 0%
2								
3			1.2			Lean Clay with Sand (CL), brown with rust and black streaks, slightly moist, low plasticity	CL	Note: Samples SB1-1, ... are for physical properties Samples Y0 G29 ... are for chemical analysis
4								
5								
6			0.0			No recovery (NSNR), rock blocks off core	NSNR	
7								
8								
9			2.2			Lean Clay with Silt lenses (CLML), brown 10YR 4/3 grading to gray 10YR 5/1, moist, firm, medium to low plasticity	CLML	0 ppm on OVM, O_2 - good, LEL: 0%
10								
11			2.0			Lean Clay with Sand (CL), dark grayish brown 10YR 4/2, gray and rust mottling, moist, very firm, medium plasticity	CL	
12								
13								
14			2.3			Clayey Silty Sand (SWSC) at 13.5 - 14.5 ft, Silt lenses at 13 - 15 ft	SWSC	
15								
16			2.5			Lean Clay (CL), dark yellowish brown 10YR 4/6, moist, very firm, high plasticity	CL	Drillers mud leak detected
17								
18								
19			2.5			Fat Clay (CH), pale brown 10YR 6/3, moist, hard, high plasticity	CH	0 ppm on OVM, O_2 - good, LEL: 0%
20								
21			2.5			Lean Clay (CL), pale brown, moist, very firm, high plasticity	CL	Drillers mud leak spills all over the surface
22								
23			2.5			Lean Clay with Sand (CL), mottled rust, brown, and black spots, moist, firm, low plasticity	CL	Some silt present with sand Note: Driller installs a 6-inch drive casing on 04/05/02 to prevent mud from moving out of the borehole. Casing driven to 23 ft
24								
25								

CH2MHILL	PROJECT NUMBER: 152293.PJ.04	BORING NUMBER: SB1	SHEET 2 OF 6
	SOIL BORING LOG		

PROJECT NAME: **Frontier Fertilizer Site, Davis, CA** | LOCATION: **2 ft southeast from CPT-1**

GROUND SURFACE ELEVATION: | DRILLING CONTRACTOR: **Gregg Drilling, Chris St. Pierre**

DRILLING METHOD AND EQUIPMENT: **Mud rottary Mobile-B80, 101 mm coring**

WATER LEVELS, DATE, AND TIME:	DRILLING START DATE & TIME:	DRILLING FINISH DATE & TIME:	LOGGER:
N/A	**04/04/02**	**04/09/02**	**Rob Pexton, Ben Moayyad**

DEPTH BELOW SURFACE (FEET)	SPT BLOW COUNT 6"-6"(N)	SAMPLE INTERVAL DEPTH (FEET)	LENGTH OF RECOVERY OF CORE (INCHES)	SAMPLE NAME & TYPE E.G.cuttings	SYMBOLIC LOG	CORE DESCRIPTION: SOIL NAME, (USCS SYMBOL), COLOR (STAINING), MOISTURE CONTENT, RELATIVE DENSITY, CONSISTENCY, SOIL STRUCTURE, MINERALOGY, ODOR, PRESENCE OF NON AQUEOUS PHASE LIQUID, OTHER CONTAMINANTS	WELL: SYMBOLIC LOG	WELL: DRILLING RATE, DRILLING FLUID LOST CIRCULATION ZONES, TESTS CONDUCTED WATER LEVELS, WELL INSTRUMENTATION
26								
27			2.5			Lean Clay with Sand (CL), pale brown 10YR 6/3, mottled yellow and black, moist, firm, low plasticity, some silt, black organic specs present, carbonate in clay fractures	CL	0 ppm on OVM, O2 - good, LEL: 0%
28								
29			2.5					
30								
31								
32			2.5			Lean Clay (CL), pale brown, moist, hard, high to low plasticity		Sample Y0G29 collected at 30 ft, 04/05/2002
33							CL	Drillers mud leak again, drive casing to 28 ft
34			2.5 ft			33 - 34 ft: high plasticity, soft		
35						34 - 35 ft: many carbonate nodules, low plasticity, hard		
36								
37			2.5			Lean Clay (CL), dark yellowish brown 10YR 4/4, moist, hard, low plasticity		Sample Y0G30 collected at 35 ft, 04/05/2002
38						becomes firm, medium plastic, some silt, trace sand	CL	Drove casing to 33 ft to stop mud leaking
39			2.5					0 ppm on OVM, O2 - good, LEL: 0%
40								
41			1.5	Split-spoon drive sample		Sandy Lean Clay (CL), dark yellowish brown 10YR 4/4, wet, soft, low plasticity	CL	Sample Y0G32 - at 40 ft, 04/05/02
42			1.0			Well Graded Sand with Clay (SWSC), soft, low plasticity	SWSC	Sample SB1-1 at 40.5 - 41 ft
43								
44			0.0			Lean Clay - no recovery according to driller	CL	
45								
46						Poorly graded sand with clay (SPSC), brown to gray, wet, firm, slightly plastic, quartz and lithic sand		Samples Y0G33 and Y0G34 collected at 45 ft, 04/05/02
47			2.5				SPSC	
48								
49			2.5			Sandy Lean Clay (CL), dark yellowish brown 10YR 4/4, wet, soft, medium plasticity, some silt	CL	Sample Y0G35 collected at 50 ft, 04/05/2002
50								

CH2MHILL	PROJECT NUMBER: 152293.PJ.04	BORING NUMBER: SB1	SHEET 3 OF 6

SOIL BORING LOG

PROJECT NAME: **Frontier Fertilizer Site, Davis, CA** | LOCATION: **2 ft southeast from CPT-1**

GROUND SURFACE ELEVATION: | DRILLING CONTRACTOR: **Gregg Drilling, Chris St. Pierre**

DRILLING METHOD AND EQUIPMENT: **Mud rottary Mobile-B80, 101 mm coring**

WATER LEVELS, DATE, AND TIME:	DRILLING START DATE & TIME:	DRILLING FINISH DATE & TIME:	LOGGER:
N/A	04/04/02	04/09/02	Rob Pexton, Ben Moayyad

DEPTH BELOW SURFACE (FEET)	SPT BLOW COUNT 6"-6"(N)	SAMPLE INTERVAL DEPTH (FEET)	LENGTH OF RECOVERY OF CORE (INCHES)	SAMPLE NAME & TYPE E.G.cuttings	SYMBOLIC LOG	CORE DESCRIPTION: SOIL NAME, (USCS SYMBOL), COLOR (STAINING), MOISTURE CONTENT, RELATIVE DENSITY, CONSISTENCY, SOIL STRUCTURE, MINERALOGY, ODOR, PRESENCE OF NON AQUEOUS PHASE LIQUID, OTHER CONTAMINANTS	WELL: SYMBOLIC LOG	WELL: DRILLING RATE, DRILLING FLUID LOST CIRCULATION ZONES, TESTS CONDUCTED WATER LEVELS, WELL INSTRUMENTATION
51						Lean Clay (CL), dark yellowish brown 10YR 4/4, motley gray and yellow, moist, hard, medium plasticity	CL	Some silt present
52			2.5					
53								
54			2.5					
55						Mottled gray, brown, and rust	CL	Sample Y0EH2 collected at 55 ft, 4/5/02 Sample SB1-2 collected 55-55.5 ft
56			1.5	split spoon		Evidence of reduction towards 60 ft		
57								
58			3.5					
59								
60						Lean Clay (CL), yellowish brown 10YR 5/4, moist, firm, plastic, gray mottling decreases	CL	Samples Y0EH8, T0HE8MS, Y0HE8MSD collected at 60 ft 4/5/02 ovm = 0.0 ppm, Oxdgen good, LEL: 0%
61			2.2					
62								
63								
64			2.5			Carbonate nodules at 64 ft		
65						Well Graded sand with Clay (SW-SC), yellowish brown, wet, firm, low plasticity	SWSC	Sample Y0EH9 collected at 65 ft, 4/8/02
66			2.5					
67						Lean Clay with Sand (CL), yellowish brown, 10YR 5/4, moist, firm, medium plasticity	CL	
68								
69			2.5			Sandy Lean Clay (CL) with sand and silt lenses		Sample SB1-3 collected at 69.5-70 ft Sample Y0EJ0 collected at 70 ft, 4/8/02
70								
71						Lean Clay with Sand (CL), with sand lenses and layers, yellowish brown 10YR 5/4, moist, firm, medium to low plasticity	CL	
72			2.5					Sample SB1-4 collected at 72-72.5 ft
73							SPSC	
74			2.5					
75								Sample Y0EJ2 collected at 75 ft, 4/8/02

CH2MHILL

PROJECT NUMBER:	BORING NUMBER:	SHEET 4 OF 6
152293.PJ.04	SB1	

SOIL BORING LOG

PROJECT NAME: **Frontier Fertilizer Site, Davis, CA**
LOCATION: **2 ft southeast from CPT-1**
GROUND SURFACE ELEVATION:
DRILLING CONTRACTOR: **Gregg Drilling, Chris St. Pierre**
DRILLING METHOD AND EQUIPMENT: **Mud rottary Mobile-B80, 101 mm coring**

WATER LEVELS, DATE, AND TIME:	DRILLING START DATE & TIME:	DRILLING FINISH DATE & TIME:	LOGGER:
N/A	04/04/02	04/09/02	Rob Pexton, Ben Moayyad

DEPTH BELOW SURFACE (FEET)	SPT BLOW COUNT 6"-6"(N)	SAMPLE INTERVAL DEPTH (FEET)	LENGTH OF RECOVERY OF CORE (INCHES)	SAMPLE NAME & TYPE E.G.cuttings	SYMBOLIC LOG	CORE DESCRIPTION: SOIL NAME, (USCS SYMBOL), COLOR (STAINING), MOISTURE CONTENT, RELATIVE DENSITY, CONSISTENCY, SOIL STRUCTURE, MINERALOGY, ODOR, PRESENCE OF NON AQUEOUS PHASE LIQUID, OTHER CONTAMINANTS	WELL: SYMBOLIC LOG	WELL: DRILLING RATE, DRILLING FLUID LOST CIRCULATION ZONES, TESTS CONDUCTED WATER LEVELS, WELL INSTRUMENTATION
76						Sandy Lean Clay (CL), yellowish brown, wet, firm, low plasticity, fine sand and silt present	CL	Fining upward sequence
			2.5					
77								
78						Poorly Graded Sand with Clay(SP-SC), brown, wet, fine sand	SPSC	SB1-5 collected at 78-78.5 ft
79			2.5			Sandy Lean Clay (CL), dark yellowish brown 10YR 4/4 and gray N4, wet, firm, medium plasticity	CL	Some silt present
80								Sample Y0EJ3 collected at 80 ft, 4/8/02
81								
			2.5					
82						Fine quartz sand and silt present		Sample SB1-6 collected at 81.5-82 ft
83						Sandy Lean Clay (CL), dark yellowish brown 10YR 4/4, little gray mottling, wet, firm, medium plasticity	CL	
84			2.5					
85								Sample Y0EJ4 collected at 85 ft, 4/8/02
86								
87			3.0			Silt and sand content diminishing with depth	CL	ovm = 0.0 ppm, oxygen good, LEL: 0%
88								
89			2.0					
90						Lean Clay (CL), dark yellowish brown, moist, hard, high plasticity	CL	Sample Y0EJ6 collected at 90 ft, 4/8/02
91								
			2.5					
92								
93						Fat Clay (CH), yellowish brown, slightly moist, very hard, high plasticity	CH	Sample SB1-7 collected at 93.5-94 ft
94			2.5					
95								Sample Y0EJ7 collected at 95 ft, 4/8/02
96						Lean Clay (CL), mottled, strong brown, 7.5 YR 4/6 and light yellowish brown 10YR 6/4, moist, hard, high plasticity	CL	
			2.5					
97								
98								
						Trace rusty sand		
99			2.5					
								Sample Y0EJ8 collected at 100 ft, 4/8/02
100						Becomes pale brown 10YR 6/3 with white nodules		

CH2MHILL	PROJECT NUMBER: 152293.PJ.04	BORING NUMBER: SB1	SHEET 5 OF 6
	SOIL BORING LOG		

PROJECT NAME: **Frontier Fertilizer Site, Davis, CA** | LOCATION: **2 ft southeast from CPT-1**

GROUND SURFACE ELEVATION: | DRILLING CONTRACTOR: **Gregg Drilling, Chris St. Pierre**

DRILLING METHOD AND EQUIPMENT: **Mud rottary Mobile-B80, 101 mm coring**

WATER LEVELS, DATE, AND TIME:	DRILLING START DATE & TIME:	DRILLING FINISH DATE & TIME:	LOGGER:
N/A	04/04/02	04/09/02	Rob Pexton, Ben Moayyad

DEPTH BELOW SURFACE (FEET)	SPT BLOW COUNT 6"-6"(N)	SAMPLE INTERVAL DEPTH (FEET)	LENGTH OF RECOVERY OF CORE (INCHES)	SAMPLE NAME & TYPE E.G.cuttings	SYMBOLIC LOG	CORE DESCRIPTION: SOIL NAME, (USCS SYMBOL), COLOR (STAINING), MOISTURE CONTENT, RELATIVE DENSITY, CONSISTENCY, SOIL STRUCTURE, MINERALOGY, ODOR, PRESENCE OF NON AQUEOUS PHASE LIQUID, OTHER CONTAMINANTS	WELL: SYMBOLIC LOG	WELL: DRILLING RATE, DRILLING FLUID LOST CIRCULATION ZONES, TESTS CONDUCTED WATER LEVELS, WELL INSTRUMENTATION
101						Fat Clay (CH), yellowish brown 10YR 5/4, moist, hard, high plasticity	CH	
102			2.5					
103						Lean Clay (CL), yellowish brown 10YR 5/4, moist, firm, hard, high to low plasticity, carbonate nodules	CL	Fining upward sequence 100-127 ft
104			2.5					
105								Sample Y0EJ9 collected at 105 ft, 4/8/02
106						Lean Clay with Sand (CL), mottled yellowish brown and gray, moist, firm, low plasticity, silt present	CL	
107			2.5					
108						Sandy lean Clay (CL), moist, firm, with silty sand lenses at 108 and 110 ft	CL	Driller indicates sand at 108 ft
109			2.5					
110				Hammer split spoon 5_19_50		Poorly Graded Sand with Silt (SP-SM), gray and brown, medium quartz and chert sand	SPSM	Sample Y0EK0 collected at 110 ft, 4/9/02 Drove split spoon sampler to obtain sample because a core barrel would block off and get no recovery. SB1-8 collected at 111-111.5 ft; SB1-9 - at 112.5 - 113 ft
111			1.5					
112						Well Graded Gravel (GW), gray, brown, and red, wet, chert and sandstone gravel to 3.5 cm in diameter, sand is medium to coarse, approximately 20% by volume	GW	
113								
114			1.0	core				
115								Sample Y0EK1 collected at 115 ft, 4/9/02
116			1.5	Hammer split spoon 26_44_48				
117		no core						
118								
119			1.0	Hammer split spoon 44_50				
120								Sample Y0EK2 collected at 120 ft, 4/9/02 Cable blocks off bit at 125 ft
121		no core						
122						Well Graded Gravel with Sand (GW), gray, brown, red, and green, wet, subrounded gravel, approximately 20% sand	GW	
123								
124			1.0	Hammer split spoon 40_50_46		Chert, sandstone and serpentinite gravel up to 5 cm in diameter, medium to coarse sand		
125								Sample Y0EK4 collected at 125 ft, 4/9/02

CH2MHILL

PROJECT NUMBER:	BORING NUMBER:	SHEET 6 OF 6
152293.PJ.04	SB1	

SOIL BORING LOG

PROJECT NAME: **Frontier Fertilizer Site, Davis, CA**

LOCATION: **2 ft southeast from CPT-1**

GROUND SURFACE ELEVATION:

DRILLING CONTRACTOR: **Gregg Drilling, Chris St. Pierre**

DRILLING METHOD AND EQUIPMENT: **Mud rottary Mobile-B80, 101 mm coring**

WATER LEVELS, DATE, AND TIME:	DRILLING START DATE & TIME:	DRILLING FINISH DATE & TIME:	LOGGER:
N/A	04/04/02	04/09/02	Rob Pexton, Ben Moayyad

DEPTH BELOW SURFACE (FEET)	SPT BLOW COUNT 6"-6"(N)	SAMPLE INTERVAL DEPTH (FEET)	LENGTH OF RECOVERY OF CORE (INCHES)	SAMPLE NAME & TYPE E.G.cuttings	SYMBOLIC LOG	CORE DESCRIPTION: SOIL NAME, (USCS SYMBOL), COLOR (STAINING), MOISTURE CONTENT, RELATIVE DENSITY, CONSISTENCY, SOIL STRUCTURE, MINERALOGY, ODOR, PRESENCE OF NON AQUEOUS PHASE LIQUID, OTHER CONTAMINANTS	WELL: SYMBOLIC LOG	WELL: DRILLING RATE, DRILLING FLUID LOST CIRCULATION ZONES, TESTS CONDUCTED WATER LEVELS, WELL INSTRUMENTATION
126			0.5			Well Graded gravel with Sand (GW), sandstone, and chert sand, coarse, subrounded gravel, cobbles may be present	GW	Driller feels gravel end at approximately 127 ft in clay Resume with mud rottary method at 127.5 ft
127		no core						
128						Sandy lean Clay (CL), wet, firm, low plasticity	CL	
129			2.5					
130								Samples Y0EK5 + Y0EK6 collected at 130 ft, 4/9/02
131						Low plasticity due to high silt content		
132			2.5			Lean Clay (CL), yellowish brown 10YR 5/6, wet, firm, low plasisity	CL	SB1-10 collected at 132-132.5 ft
133								
134			2.5					
135								
136						Lean Clay (CL), brownish yellow 10YR 8/6, moist, hard, low plasticity, some sand	CL	Sample Y0EK9 collected at 140 ft, 4/9/02
137			2.5					
138						Becomes soft 137-138 ft	CL	
139			2.5					
140								
141						Lean Clay (CL), mottled strong brown, 7.5YR 5/6 and light brownish gray 2.5Y 6/2, moist, hard, high plasticity, some white carbonate nodules	CL	
142			2.5					
143						**Total depth 142.5 ft**		
144								Remove 6-inch casing and grout
145								
146								
147								
148								
149								
150								

CH2MHILL

PROJECT NUMBER: 152293.PJ.04	BORING NUMBER: SB2	SHEET 1 OF 6

SOIL BORING LOG

PROJECT NAME: **Frontier Fertilizer Site, Davis, CA**	LOCATION: **5 ft south of CPT-3**
GROUND SURFACE ELEVATION:	DRILLING CONTRACTOR: **Gregg Drilling, Chris St. Pierre**
DRILLING METHOD AND EQUIPMENT: **Mud rotary Mobile-B80, 101 mm coring**	

WATER LEVELS, DATE, AND TIME:	DRILLING START DATE & TIME:	DRILLING FINISH DATE & TIME:	LOGGER:
N/A	**04/17/02**	**04/19/02**	**Rob Pexton, Ben Moayyad**

DEPTH BELOW SURFACE (FEET)	SPT BLOW COUNT 6"-6"(N)	INTERVAL (FT)	RECOVERY (FT)	SAMPLE NAME & TYPE E.G.cuttings	SYMBOLIC LOG	CORE DESCRIPTION: SOIL NAME, (USCS SYMBOL), COLOR (STAINING), MOISTURE CONTENT, RELATIVE DENSITY, CONSISTENCY, SOIL STRUCTURE, MINERALOGY, ODOR, PRESENCE OF NON AQUEOUS PHASE LIQUID, OTHER CONTAMINANTS	WELL: SYMBOLIC LOG	WELL: DRILLING RATE, DRILLING FLUID LOST CIRCULATION ZONES, TESTS CONDUCTED WATER LEVELS, WELL INSTRUMENTATION
1						Hand auger to 5 ft	CL	PID: 0.0 ppm Oxygen good LEL: 0%
2								
3								
4								
5								
6						Lean Clay (CL), dark grayish brown 10YR 4/2, with organic staining, slightly moist, firm, low plasticity	CL	
7			2.5					
8								
9			2.5					
10						Becomes hard and dry		Carbonate stringers and burrows
11						Lean Clay (CL), dark yellowish brown 10YR 4/4, dry, firm, low plasticity	CL	Trace gravel and sand
12			2.5					
13								
14			2.5					
15								
16						Sandy Lean Clay (CL), dark yellowish brown 10YR 4/4, dry, firm, low plasticity	CL	
17			2.5					
18						Lean Clay (CL), yellowish brown 10YR 5/4, with black organic and white carbonate streaks, moist, firm, plastic	CL	Carbonate and organic stringers
19			2.5					
20								
21			2.5			Sandy Lean Clay (CL), dark yellowish brown 10YR 4/4, moist, hard, high plasticity	CL	PID: 0.0 ppm Oxygen good LEL: 0%
22								
23						Mottled yellow, brown, and black		
24			2.5			No burrows or carbonate		
25								

CH2MHILL

PROJECT NUMBER:	BORING NUMBER:	SHEET 2 OF 6
152293.PJ.04	SB2	

SOIL BORING LOG

PROJECT NAME: **Frontier Fertilizer Site, Davis, CA**

LOCATION: **5 ft south of CPT-3**

GROUND SURFACE ELEVATION:

DRILLING CONTRACTOR: **Gregg Drilling, Chris St. Pierre**

DRILLING METHOD AND EQUIPMENT: **Mud rotary Mobile-B80, 101 mm coring**

WATER LEVELS, DATE, AND TIME:	DRILLING START DATE & TIME:	DRILLING FINISH DATE & TIME:	LOGGER:
N/A	**04/17/02**	**04/19/02**	**Rob Pexton, Ben Moayyad**

DEPTH BELOW SURFACE (FEET)	SPT BLOW COUNT 6"-6"(N)	INTERVAL (FT)	RECOVERY (FT)	SAMPLE NAME & TYPE E.G.cuttings	SYMBOLIC LOG	CORE DESCRIPTION: SOIL NAME, (USCS SYMBOL), COLOR (STAINING), MOISTURE CONTENT, RELATIVE DENSITY, CONSISTENCY, SOIL STRUCTURE, MINERALOGY, ODOR, PRESENCE OF NON AQUEOUS PHASE LIQUID, OTHER CONTAMINANTS	SYMBOLIC LOG	WELL: DRILLING RATE, DRILLING FLUID LOST CIRCULATION ZONES, TESTS CONDUCTED WATER LEVELS, WELL INSTRUMENTATION
26						Sandy Lean Clay (CL), brownish yellow, 10YR 6/8, with gray streaks 10YR 6/1, moist, hard, low plasticity	CL	PID: 0.0 ppm Oxygen good LEL: 0%
			2.5					
27								
28								
29			2.5					
						Some carbonate stringers Some silt present		
30						Sandy Lean Clay (CL), brownish yellow 10YR 6/8, moist, firm, low plasticity	CL	Sample Y0EL3 collected at 30 ft, 4/17/02
31								
			2.5					
32								
33						Lean Clay (CL), yellowish brown 10YR 5/6, moist, medium plasticity	CL	
34			2.5					
35						Approximately 10% or less sand		Fine sand content increases to approximately 35% at 35 ft Samples Y0EL5, Y0EL5MS, and Y0EL5MSD collected at 35 ft, 4/17/02
36								
			2.5					
37						Lean Clay (CL), strong brown 7.5YR 5/6, moist, firm to hard, high plasticity	CL	
38								
39			2.5					
40								Samples Y0EL6 and Y0EL7 collected at 40 ft, 4/17/02
41								
			2.5					
42						Some gray mottling		
43						Poorly sorted Sand with Clay (SP-SC), fine to medium, wet sand with silt, clay, and gravel lenses	SPSC	Sample SB2-1 collected at 43-43.5 ft
44			2.5					
45						Sandy Lean Clay (CL), strong brown 7.5YR 5/6, wet, soft, low plasticity	CL	Sample Y0EL8 collected at 45 ft, 4/17/02
46								
			2.5					
47						Fine sand and silt diminish with depth		
48								
49			2.5					
50						Becomes hard Lean Clay at 50 ft	CL	Sample Y0EM0 collected at 50 ft, 4/17/02

CH2MHILL

PROJECT NUMBER: 152293.PJ.04	BORING NUMBER: SB2	SHEET 3 OF 6

SOIL BORING LOG

PROJECT NAME: **Frontier Fertilizer Site, Davis, CA**

LOCATION: **5 ft south of CPT-3**

GROUND SURFACE ELEVATION:

DRILLING CONTRACTOR: **Gregg Drilling, Chris St. Pierre**

DRILLING METHOD AND EQUIPMENT: **Mud rotary Mobile-B80, 101 mm coring**

WATER LEVELS, DATE, AND TIME:	DRILLING START DATE & TIME:	DRILLING FINISH DATE & TIME:	LOGGER:
N/A	04/17/02	04/19/02	Rob Pexton, Ben Moayyad

DEPTH BELOW SURFACE (FEET)	SPT BLOW COUNT 6"-6"(N)	INTERVAL (FT)	RECOVERY (FT)	SAMPLE NAME & TYPE E.G.cuttings	SYMBOLIC LOG	CORE DESCRIPTION: SOIL NAME, (USCS SYMBOL), COLOR (STAINING), MOISTURE CONTENT, RELATIVE DENSITY, CONSISTENCY, SOIL STRUCTURE, MINERALOGY, ODOR, PRESENCE OF NON AQUEOUS PHASE LIQUID, OTHER CONTAMINANTS	WELL: SYMBOLIC LOG	WELL: DRILLING RATE, DRILLING FLUID LOST CIRCULATION ZONES, TESTS CONDUCTED WATER LEVELS, WELL INSTRUMENTATION
51						Lean Clay (CL), brownish yellow 10YR 6/6, moist, hard, high plasticity	CL	
52			2.5					
53								Colour lightens due to presense of carbonate
54			2.0					
55						Colour lightens to very pale brown 10YR 7/3 Hard friable calcium caebonate indicates arid soil horizon from 54 to 55 ft		Sample Y0EM1 collected at 55 ft, 4/17/02
56								
57			2.5					Fining upward sequence 57-69.5 ft
58						Lean Clay (CL), yellowish brown 10YR 6/8 and yellowish red 6YR 5/8 with gray spots, moist, hard, high plasticity	CL	
59			2.5					Light mottling
60								Sample Y0EM2 collected at 60 ft, 4/17/02
61			2.5					
62						Silt content oncreasing with depth		Stronger mottling
63								
64			2.5			Lean Clay with Sand (CL), yellowish brown 10YR 5/6, moist, firm, low plasticity, varying silt and sand contents	CL	Sample SB2-2 collected at 64-64.5 ft
65						1-inch sand		Samples Y0EM3 and Y0EM4 collected at 65 ft, 4/17/02
66			2.5			1-inch sand 1-inch sand		
67								
68						1-inch sand		Sample SB2-3 collected at 68.5-69 ft
69			2.5			Poorly graded Sand with Clay (SP-SC), range from clay to fine sand, wet, firm, low plasticity	SPSC	
70						Lean Clay (CL), dark yellowish brwon 10YR 3/6, moist, hard, low plasticity		Sample Y0EM5 collected at 70 ft, 4/17/02
71			2.5					
72								
73								
74			2.5			Sandy Lean Clay (CL), dark yellowish brown 10YR 3/6, wet, firm, low plasticity	CL	
75								Sample Y0EM7 collected at 75 ft, 4/18/02

CH2MHILL

PROJECT NUMBER: 152293.PJ.04	BORING NUMBER: SB2	SHEET 4 OF 6

SOIL BORING LOG

PROJECT NAME: **Frontier Fertilizer Site, Davis, CA**

LOCATION: **5 ft south of CPT-3**

GROUND SURFACE ELEVATION:

DRILLING CONTRACTOR: **Gregg Drilling, Chris St. Pierre**

DRILLING METHOD AND EQUIPMENT: **Mud rotary Mobile-B80, 101 mm coring**

WATER LEVELS, DATE, AND TIME:	DRILLING START DATE & TIME:	DRILLING FINISH DATE & TIME:	LOGGER:
N/A	**04/17/02**	**04/19/02**	**Rob Pexton, Ben Moayyad**

DEPTH BELOW SURFACE (FEET)	SPT BLOW COUNT 6"-6"(N)	INTERVAL (FT)	RECOVERY (FT)	SAMPLE NAME & TYPE E.G.cuttings	SYMBOLIC LOG	CORE DESCRIPTION: SOIL NAME, (USCS SYMBOL), COLOR (STAINING), MOISTURE CONTENT, RELATIVE DENSITY, CONSISTENCY, SOIL STRUCTURE, MINERALOGY, ODOR, PRESENCE OF NON AQUEOUS PHASE LIQUID, OTHER CONTAMINANTS	SYMBOLIC LOG	WELL: DRILLING RATE, DRILLING FLUID LOST CIRCULATION ZONES, TESTS CONDUCTED WATER LEVELS, WELL INSTRUMENTATION
						Sandy Lean Clay grades to fine Sand		Fining upward sequence 70 to 92 ft
76						Poorly graded Sand with Clay (SP-SC), dark yellowish brown 10YR 4/4, wet, soft, non-plastic	SPSC	
			2.5					Sample SB2-4 collected at 76.5-77 ft
77								
78								
								Sample SB2-5 collected at 78.5-79 ft
79			2.5			Poorly graded sand (SP), dark yellowish brown 10YR 4/4, wet, soft, non-plastic, less than 15% fines	SP	
80						Sand: quartz, chert, and lithic fragments		Sample Y0EM8 collected at 80 ft, 4/18/02
81						Becomes poorly graded medium sand at 81 ft	SP	
			2.5					
82								
83								
84			2.5					
85								Sample Y0EN0 collected at 85 ft, 4/18/02
86								
			2.5					
87								
								Sample SB2-6 collected at 87-87.5 ft
88								PID: 0.0 ppm
								Oxygen good
89			2.5					LEL: 0%
90						Becomes poorly graded coarse sand at 90 ft	SP	Sample Y0EN1 collected at 90 ft, 4/18/02
91								
			2.5					Sample SB2-7 collected at 91.5-92 ft
92								
						Lean Clay (CL), yellowish brown 10YR 5/6, moist, hard, high plasticity	CL	
93								
								Sample SB2-8 collected at 93.5-94 ft
94			2.5					
95						Light gray mottling		Sample Y0EN2 collected at 95 ft, 4/18/02
96								
			2.5					
97								
98						Lean Clay (CL), strong brown 7.5YR 5/6, moist, hard, high plasticity, carbonate stringers present	CL	May contain silt
99			2.0					
100								Sample Y0EN3 collected at 100 ft, 4/18/02

CH2MHILL

PROJECT NUMBER: 152293.PJ.04	BORING NUMBER: SB2	SHEET 5 OF 6

SOIL BORING LOG

PROJECT NAME: **Frontier Fertilizer Site, Davis, CA**	LOCATION: **5 ft south of CPT-3**
GROUND SURFACE ELEVATION:	DRILLING CONTRACTOR: **Gregg Drilling, Chris St. Pierre**
DRILLING METHOD AND EQUIPMENT: **Mud rotary Mobile-B80, 101 mm coring**	

WATER LEVELS, DATE, AND TIME:	DRILLING START DATE & TIME:	DRILLING FINISH DATE & TIME:	LOGGER:
N/A	**04/17/02**	**04/19/02**	**Rob Pexton, Ben Moayyad**

DEPTH BELOW SURFACE (FEET)	SPT BLOW COUNT 6"-6"(N)	INTERVAL (FT)	RECOVERY (FT)	SAMPLE NAME & TYPE E.G.cuttings	SYMBOLIC LOG	CORE DESCRIPTION: SOIL NAME, (USCS SYMBOL), COLOR (STAINING), MOISTURE CONTENT, RELATIVE DENSITY, CONSISTENCY, SOIL STRUCTURE, MINERALOGY, ODOR, PRESENCE OF NON AQUEOUS PHASE LIQUID, OTHER CONTAMINANTS	WELL: SYMBOLIC LOG	WELL: DRILLING RATE, DRILLING FLUID LOST CIRCULATION ZONES, TESTS CONDUCTED WATER LEVELS, WELL INSTRUMENTATION
101						Lean Clay grades to Sandy Lean Clay (CL), mottled gray and yellowish brown, moist, hard, high plasticity	CL	Trace sand
102			2.5					
103								
104			2.5			Lean Clay (CL) with fine sand, gray and yellowish brown, moist, hard, high plasticity	CL	
105								Sample Y0EN4 collected at 105 ft, 04/18/2002
106								
107			2.5			Poorly graded fine Sand (SP), contains fine sand, silt, and clay	SP	
108						Well graded fine to medium Sand (SW) with fine gravel	SW	Note: drive samples taken with 2-inch id. split spoon
109			2.5					
110						Well graded Gravel with sand (GW), wet, dense, rounded chert gravel, 35-50% sand, less than 10% fines	GW	Samples Y0EN5 and Y0EN6 collected at 110ft, 4/18/02 PID: 0.0 ppm Oxygen good LEL: 0%
111								
112								
113				Hammered split spoon 46_50				
114			1.0			Poorly graded Gravel with sand (GP), 60-75% gravel, gray, rounded siltstone and sandstone, fine to medium, 25-40% medium quartz, chert and lithic, medium to coarse sand	GP	Sample SB2-9 collected at 114.5-115 ft
115								Sample Y0EN7 collected at 115 ft, 4/18/02
116								
117								
118								
119			1.0	Hammered split spoon		No fines		Sample SB2-10 collected at 119 ft
120								Sample Y0EN8 collected at 120 ft, 4/18/02
121								
122						Well graded Gravel with sand (GW), wet, dense, rounded, fine to coarse gravel with quartzite, red philite, and sandstone composition Approximately 25% quartz and lithic medium to coarse sand	GW	
123								
124			1.0	Hammered split spoon 32_50				
125								Sample Y0EP0 collected at 125 ft, 4/18/02

CH2MHILL

PROJECT NUMBER: 152293.PJ.04	BORING NUMBER: SB2	SHEET 6 OF 6

SOIL BORING LOG

PROJECT NAME: **Frontier Fertilizer Site, Davis, CA** | LOCATION: **5 ft south of CPT-3**

GROUND SURFACE ELEVATION: | DRILLING CONTRACTOR: **Gregg Drilling, Chris St. Pierre**

DRILLING METHOD AND EQUIPMENT: **Mud rotary Mobile-B80, 101 mm coring**

WATER LEVELS, DATE, AND TIME:	DRILLING START DATE & TIME:	DRILLING FINISH DATE & TIME:	LOGGER:
N/A	04/17/02	04/19/02	Rob Pexton, Ben Moayyad

DEPTH BELOW SURFACE (FEET)	SPT BLOW COUNT 6"-6"(N)	INTERVAL (FT)	RECOVERY (FT)	SAMPLE NAME & TYPE E.G.cuttings	SYMBOLIC LOG	CORE DESCRIPTION: SOIL NAME, (USCS SYMBOL), COLOR (STAINING), MOISTURE CONTENT, RELATIVE DENSITY, CONSISTENCY, SOIL STRUCTURE, MINERALOGY, ODOR, PRESENCE OF NON AQUEOUS PHASE LIQUID, OTHER CONTAMINANTS	WELL: SYMBOLIC LOG	WELL: DRILLING RATE, DRILLING FLUID LOST CIRCULATION ZONES, TESTS CONDUCTED WATER LEVELS, WELL INSTRUMENTATION
126						Cobble blocks off core at 125 ft	GW	Driller notes contact at 127 ft
127								
128						Lean Clay (CL), light yellowish brown 10YR 6/4, wet, soft, high plasticity, mixed with drilling mud	CL	
129			1.0					
130								No sample - too much drilling mud mixed into core
131								
132						Lean Clay (CL), light yellowish brown 10YR 6/4, wet, soft, high plasticity	CL	
133			0.5					
134								
135								Sample Y0EP2 collected at 135 ft, 04/18/2002
136								
137						Becomes firm		
138								
139			1.0					
140								Samples Y0EP1, Y0EP1MS, Y0EP1MSD collected at 140 ft, 4/18/02
141						Lean Clay (CL), strong brown 7.5YR 5/6, moist, hard, high plasticity, some sand present	CL	
142								
143								
144			1.0					Sample SB2-11 collected at 144.5-145 ft
145						**Total depth 145 ft**		Sample Y0EP4 collected at 145 ft, 04/18/2002
146								Grout borehole on 4/19/02
147								
148								
149			1.0					
150								

CH2MHILL

PROJECT NUMBER:	BORING NUMBER:	SHEET 1 OF 7
152293.PJ.04	SB3	

SOIL BORING LOG

PROJECT NAME: **Frontier Fertilizer Site, Davis, CA**

LOCATION: **Adjacent to CPT-11**

GROUND SURFACE ELEVATION:

DRILLING CONTRACTOR: **Gregg Drilling, Chris St. Pierre**

DRILLING METHOD AND EQUIPMENT: **Mud rotary Mobile-B80, 101 mm coring**

WATER LEVELS, DATE, AND TIME:	DRILLING START DATE & TIME:	DRILLING FINISH DATE & TIME:	LOGGER:
N/A	04/12/02	04/16/02	Rob Pexton, Ben Moayyad

DEPTH BELOW SURFACE (FEET)	SPT BLOW COUNT 6"-6"(N)	INTERVAL (FT)	RECOVERY (FT)	SAMPLE NAME & TYPE E.G.cuttings	SYMBOLIC LOG	CORE DESCRIPTION: SOIL NAME, (USCS SYMBOL), COLOR (STAINING), MOISTURE CONTENT, RELATIVE DENSITY, CONSISTENCY, SOIL STRUCTURE, MINERALOGY, ODOR, PRESENCE OF NON AQUEOUS PHASE LIQUID, OTHER CONTAMINANTS	WELL: SYMBOLIC LOG	WELL: DRILLING RATE, DRILLING FLUID LOST CIRCULATION ZONES, TESTS CONDUCTED WATER LEVELS, WELL INSTRUMENTATION
1						Hand auger to 5 ft No core collected	CL	
2								
3								
4								
5						Lean Clay with Gravel (CL), brown 10YR 4/3, with black organic staining, wet, soft, high plasticity	CL	OVM = 0.0 ppm Oxyge good LEL: 0%
6			1.0					
7								
8			0.0					
9							NS	
10						Soft clay No return		
11			0.0					
12								
13								
14			0.0					
15						Lean Clay with gravel (CL), some coarse sand lenses, brown 10YR 4/3 and dark gray, wet, soft, medium plasticity	CL	Less than 5% gravel 2 mm to 2 cm Organic rich layers
16			2.0					
17								
18								
19			1.0					
20						Lean Clay with sand and gravel (CL), brown and gray, wet, soft, low plasticity	CL	20 to 30% gravel
21								
22			0.8			One volcanoclastic cobble (5 cm)		
23						Sandy lean Clay (CL), light yellowish brown 10YR 6/4, moist, hard, medium plasticity	CL	Mottled brown, orange, and black
24			2.5					
25								

CH2MHILL

PROJECT NUMBER: 152293.PJ.04	BORING NUMBER: SB3	SHEET 2 OF 7

SOIL BORING LOG

PROJECT NAME: **Frontier Fertilizer Site, Davis, CA** | LOCATION: **Adjacent to CPT-11**

GROUND SURFACE ELEVATION: | DRILLING CONTRACTOR: **Gregg Drilling, Chris St. Pierre**

DRILLING METHOD AND EQUIPMENT: **Mud rotary Mobile-B80, 101 mm coring**

WATER LEVELS, DATE, AND TIME:	DRILLING START DATE & TIME:	DRILLING FINISH DATE & TIME:	LOGGER:
N/A	**04/12/02**	**04/16/02**	**Rob Pexton, Ben Moayyad**

DEPTH BELOW SURFACE (FEET)	SPT BLOW COUNT 6"-6"(N)	INTERVAL (FT)	RECOVERY (FT)	SAMPLE NAME & TYPE E.G.cuttings	SYMBOLIC LOG	CORE DESCRIPTION: SOIL NAME, (USCS SYMBOL), COLOR (STAINING), MOISTURE CONTENT, RELATIVE DENSITY, CONSISTENCY, SOIL STRUCTURE, MINERALOGY, ODOR, PRESENCE OF NON AQUEOUS PHASE LIQUID, OTHER CONTAMINANTS	WELL: SYMBOLIC LOG	WELL: DRILLING RATE, DRILLING FLUID LOST CIRCULATION ZONES, TESTS CONDUCTED WATER LEVELS, WELL INSTRUMENTATION
26						Sandy Lean Clay (CL), light yellowish brown 10YR 6/4, with orange and black mottling, moist, hard, non-plastic	CL	Silty sandy clay
27			2.5					
28								
29			2.5					
30								
31						Lean Clay with Sand (CL), mottled rust and light yellowish brown, moist, firm, low plasticity, fine sand lenses present	CL	Samples Y0EP8 and Y0EP9 collected at 30 ft, 4/15/02
32			2.5					OVM = 0.0 ppm Oxyge good LEL: 0%
33								
34			2.5					
35								
36						Lean Clay with sand (CL), strong brown 10YR 5/6, moist, firm, medium plasticity	CL	Sample Y0EQ0 collected at 35 ft, 4/15/02
37			2.5			Carbonate cementation at 37 ft		
38								
39			2.5			6 inches of well graded Sand with Clay at 38 ft Lean Clay with sand (CL), with well graded sand layers (SW) at 41.5 ft (4 inches) and 42.5 ft (2inches), strong brown, moist, firm, medium plasticity	CLSW	
40								Sample Y0EQ2 collected at 40 ft, 4/15/02
41			2.5					
42								Sample SB3-1 collected at 42-42.5 ft
43								
44			2.5					
45						Sandy Lean Clay (CL), some sand lenses, strong brown 7.5YR 5/8, firm, moist, medium plasticity	CL	Sample Y0EQ4 collected at 45 ft, 4/15/02
46			2.5					
47						Lean Clay (CL), strong brown, moist, hard, high plasticity	CL	
48								
49			2.5					
50								Sample Y0EQ5 collected at 50 ft, 4/15/02

CH2MHILL

PROJECT NUMBER: 152293.PJ.04	BORING NUMBER: SB3	SHEET 3 OF 7

SOIL BORING LOG

PROJECT NAME: **Frontier Fertilizer Site, Davis, CA**	LOCATION: **Adjacent to CPT-11**
GROUND SURFACE ELEVATION:	DRILLING CONTRACTOR: **Gregg Drilling, Chris St. Pierre**
DRILLING METHOD AND EQUIPMENT: **Mud rotary Mobile-B80, 101 mm coring**	

WATER LEVELS, DATE, AND TIME:	DRILLING START DATE & TIME:	DRILLING FINISH DATE & TIME:	LOGGER:
N/A	**04/12/02**	**04/16/02**	**Rob Pexton, Ben Moayyad**

DEPTH BELOW SURFACE (FEET)	SPT BLOW COUNT 6"-6"(N)	INTERVAL (FT)	RECOVERY (FT)	SAMPLE NAME & TYPE E.G.cuttings	SYMBOLIC LOG	CORE DESCRIPTION: SOIL NAME, (USCS SYMBOL), COLOR (STAINING), MOISTURE CONTENT, RELATIVE DENSITY, CONSISTENCY, SOIL STRUCTURE, MINERALOGY, ODOR, PRESENCE OF NON AQUEOUS PHASE LIQUID, OTHER CONTAMINANTS	WELL: SYMBOLIC LOG	WELL: DRILLING RATE, DRILLING FLUID LOST CIRCULATION ZONES, TESTS CONDUCTED WATER LEVELS, WELL INSTRUMENTATION
51						Lean Clay (CL), strong brown 7.5YR 5/8, moist, firm, high plasticity Some sandy clay layers	CL	
			2.5					Sample SB3-2 collected at 51.5-52 ft
52						Light gray mottling		
53								OVM = 0.0 ppm Oxyge good LEL: 0%
54			2.5					
						Carbonate cementation at 54.5-55 ft		
55								Sample Y0EQ6 collected at 55 ft, 04/15/2002
56								
			2.5			Lean Clay (CL), mottled strong brown and gray, moist, firm, high plasticity	CL	
57								
58						Some carbonate nodules present		
59			2.5					
60								
61						Lean Clay (CL), brownish yellow 10YR 6/6, moist, firm to hard, high plasticity, abundant calcium carbonate nodules	CL	Samples Y0EQ7 and Y0EQ8 collected at 60 ft, 4/15/2002
			2.5					
62								
63								
64			2.5					
65								
66						Lean Clay with sand (CL) and sand lenses, brownish yellow, moist, firm, high plasticity, sand lenses from 65 to 66.5 ft	CL	Sample Y0EQ9 collected at 65 ft, 04/15/2002
			2.5					
67								Carbonate nodules present
68								
69			2.5					
70								
71						Lean Clay with sand (CL), mottled grfay black and brown, moist, firm to hard, low plasticity	CL	Sample Y0ER1 collected at 70 ft, 04/15/2002
			2.5					
72								
73						Well graded Sand with Clay (SW-SC), fine to medium, grayish brown 10YR 5/7, sand moist, firm, low plasticity	SWSC	Sample SB3-3 collected at 72.5-73 ft
74			2.5					Sample SB3-4 collected at 74-74.5 ft Sample Y0ER2 collected at 75 ft, 04/15/2002
75								

CH2MHILL

PROJECT NUMBER:	BORING NUMBER:	SHEET 4 OF 7
152293.PJ.04	SB3	

SOIL BORING LOG

PROJECT NAME: **Frontier Fertilizer Site, Davis, CA** | LOCATION: **Adjacent to CPT-11**

GROUND SURFACE ELEVATION: | DRILLING CONTRACTOR: **Gregg Drilling, Chris St. Pierre**

DRILLING METHOD AND EQUIPMENT: **Mud rotary Mobile-B80, 101 mm coring**

WATER LEVELS, DATE, AND TIME:	DRILLING START DATE & TIME:	DRILLING FINISH DATE & TIME:	LOGGER:
N/A	**04/12/02**	**04/16/02**	**Rob Pexton, Ben Moayyad**

DEPTH BELOW SURFACE (FEET)	SPT BLOW COUNT 6"-6"(N)	INTERVAL (FT)	RECOVERY (FT)	SAMPLE NAME & TYPE E.G.cuttings	SYMBOLIC LOG	CORE DESCRIPTION: SOIL NAME, (USCS SYMBOL), COLOR (STAINING), MOISTURE CONTENT, RELATIVE DENSITY, CONSISTENCY, SOIL STRUCTURE, MINERALOGY, ODOR, PRESENCE OF NON AQUEOUS PHASE LIQUID, OTHER CONTAMINANTS	WELL: SYMBOLIC LOG	WELL: DRILLING RATE, DRILLING FLUID LOST CIRCULATION ZONES, TESTS CONDUCTED WATER LEVELS, WELL INSTRUMENTATION
76						Poorly graded fine Sand with silt and clay (SP-SC), grades to	SPSC	
77			2.5					
78						Well graded Sand with silt and clay (SW-SC), grades to	SWSC	
79			2.5					
80								
81						Silt (ML) with sand and clay, yellowish brown 10YR 5/4, moist, firm, non-plastic	ML	Sample Y0ER4 collected at 80 ft, 04/15/2002
82			2.5					
83						Lean Clay (CL), strong brown, moist, firm, medium plasticity, some silt present	CL	
84			2.5					
85								
86						Lean Clay (CL), yellowish brown 10YR 5/4, moist, hard, low plasticity more silt present	CL	Sample Y0ER5 collected at 85 ft, 04/15/2002
87			2.5					
88								
89			2.5					Sample SB3-5 collected at 89-89.5 ft
90								Sample Y0ER6 collected at 90 ft, 04/15/2002
91			0.0					
92						No recovery, pushe core past blockage		
93								
94								
95								
96						Lean Clay (CL), mottled rusty orange, brown, and gray, moist, firm to hard, high plasticity	CL	Samples Y0ER7 and Y0ER8 collected at 95 ft, 4/15/2002
97			2.5					
98								
99			2.5					
100						Becomes more rusty Abundant carbonate stringers		Sample Y0ER8 collected at 100 ft, 04/15/2002

CH2MHILL

PROJECT NUMBER: 152293.PJ.04	BORING NUMBER: SB3	SHEET 5 OF 7

SOIL BORING LOG

PROJECT NAME: **Frontier Fertilizer Site, Davis, CA**

LOCATION: **Adjacent to CPT-11**

GROUND SURFACE ELEVATION:

DRILLING CONTRACTOR: **Gregg Drilling, Chris St. Pierre**

DRILLING METHOD AND EQUIPMENT: **Mud rotary Mobile-B80, 101 mm coring**

WATER LEVELS, DATE, AND TIME:	DRILLING START DATE & TIME:	DRILLING FINISH DATE & TIME:	LOGGER:
N/A	**04/12/02**	**04/16/02**	**Rob Pexton, Ben Moayyad**

DEPTH BELOW SURFACE (FEET)	SPT BLOW COUNT 6"-6"(N)	INTERVAL (FT)	RECOVERY (FT)	SAMPLE NAME & TYPE E.G.cuttings	SYMBOLIC LOG	CORE DESCRIPTION: SOIL NAME, (USCS SYMBOL), COLOR (STAINING), MOISTURE CONTENT, RELATIVE DENSITY, CONSISTENCY, SOIL STRUCTURE, MINERALOGY, ODOR, PRESENCE OF NON AQUEOUS PHASE LIQUID, OTHER CONTAMINANTS	WELL: SYMBOLIC LOG	WELL: DRILLING RATE, DRILLING FLUID LOST CIRCULATION ZONES, TESTS CONDUCTED WATER LEVELS, WELL INSTRUMENTATION
101			2.5			Lean Clay (CL), mottled rusty orange and gray, moist, hard, low plasticity	CL	Fining upwards
102								
103						Lean Clay with sand (CL), yellowish brown 10YR 5/4, moist, firm, low plasticity	CL	
104			2.5					
105						Sandy Lean Clay (CL), yellowish brown, moist, firm, low plasticity	CL	Sample Y0ER9 collected at 105 ft, 04/16/2002
106			2.5					
107						Poorly graded Sand with Clay (SP-SC), fine to medium sand, approximately 15% fines	SPSC	
108								
109			2.5					Sample SB3-6 collected at 108.5-109 ft
110						Poorly graded Sandy Gravel (GP), rounded, gray, sandstone, siltstone, and chert gravel Approximately 20% sand, consisting of quartz and chert	GP	Sample Y0ES0 collected at 110 ft, 04/16/2002
111			2.2					
112								
113								
114								
115								
116			1.2	Hammered split spoon 32_50		Well graded Sandy Gravel (GW), 25-40% sand Poorly sorted coarse Sand (SP) layers present	GWSP	Samples Y0ES1 and Y0ER2 collected at 115 ft, 4/16/02 Sample SB3-7 collected at 115.5-116 ft
117								
118								
119								
120								
121			1.0	Hammered split spoon 45_50		Well graded Sandy Gravel (GW) to poorly sorted Sand with fine gravel (SP), 40-60% sand consisting of chert and quartz, 40-60% rounded gray gravel consisting of quartzite and sandstone	GWSP	Sample Y0ES2 collected at 120 ft, 04/16/2002 Less than 15% fines present
122								
123								
124								
125								Sample Y0ES5 collected at 125 ft, 04/16/2002

CH2MHILL

PROJECT NUMBER: 152293.PJ.04	BORING NUMBER: SB3	SHEET 6 OF 7

SOIL BORING LOG

PROJECT NAME: **Frontier Fertilizer Site, Davis, CA**	LOCATION: **Adjacent to CPT-11**
GROUND SURFACE ELEVATION:	DRILLING CONTRACTOR: **Gregg Drilling, Chris St. Pierre**
DRILLING METHOD AND EQUIPMENT: **Mud rotary Mobile-B80, 101 mm coring**	

WATER LEVELS, DATE, AND TIME:	DRILLING START DATE & TIME:	DRILLING FINISH DATE & TIME:	LOGGER:
N/A	**04/12/02**	**04/16/02**	**Rob Pexton, Ben Moayyad**

DEPTH BELOW SURFACE (FEET)	SPT BLOW COUNT 6"-6"(N)	INTERVAL (FT)	RECOVERY (FT)	SAMPLE NAME & TYPE E.G.cuttings	SYMBOLIC LOG	CORE DESCRIPTION: SOIL NAME, (USCS SYMBOL), COLOR (STAINING), MOISTURE CONTENT, RELATIVE DENSITY, CONSISTENCY, SOIL STRUCTURE, MINERALOGY, ODOR, PRESENCE OF NON AQUEOUS PHASE LIQUID, OTHER CONTAMINANTS	WELL: SYMBOLIC LOG	WELL: DRILLING RATE, DRILLING FLUID LOST CIRCULATION ZONES, TESTS CONDUCTED WATER LEVELS, WELL INSTRUMENTATION
126			1.0			Well graded sandy Grave (GW), rounded, red, brown, and gray chert gravel, 25-45% lithic and quartz sand	GW	Occasional red and yellow mud balls present
127								
128								
129						Driller indicates Clay at 128 ft	CL	Core infiltrated with drilling mud
130						Cobble blocks off bit, no recovery from 128 to 139 ft	NSNR	
131			0.0					OVM = 0.0 ppm Oxygen good LEL: 0%
132								
133								No sample collected: no recovery
134			0.0					
135								
136			0.0					
137								
138						Sandy Lean Clay (CL) to well graded Sand (SW) with clay slopy and drill mud mixed in	CLSW	
139			0.5					
140								
141			1.5			Well graded fine Sand with Clay (SW-SC), very pale brown 10YR 7/4, wet, soft, medium plasticity	SWSC	
142								Sample SB3-8 collected at 142-142.5 ft Sample Y0ES9 collected at 142.5 ft, 04/16/2002
143								
144			2.5					Sample SB3-9 collected at 144-144.5 ft
145								
146			2.5			Lean Clay with sand (CL), brownish yellow 10YR 6/6, moist, firm to hard, low plasticity	CL	Sample Y0ET0 collected at 145 ft, 04/16/2002
147								
148						Lean Clay (CL), strong brown 7.5 YR 5/6, moist, hard, high plasticity	CL	
149			2.5					
150								Sample Y0ET1 collected at 150 ft, 04/16/2002

CH2MHILL

PROJECT NUMBER: 152293.PJ.04	BORING NUMBER: SB3	SHEET 6 OF 6

SOIL BORING LOG

PROJECT NAME: **Frontier Fertilizer Site, Davis, CA**

LOCATION: **Adjacent to CPT-11**

GROUND SURFACE ELEVATION:

DRILLING CONTRACTOR: **Gregg Drilling, Chris St. Pierre**

DRILLING METHOD AND EQUIPMENT: **Mud rotary Mobile-B80, 101 mm coring**

WATER LEVELS, DATE, AND TIME:	DRILLING START DATE & TIME:	DRILLING FINISH DATE & TIME:	LOGGER:
N/A	**04/12/02**	**04/16/02**	**Rob Pexton, Ben Moayyad**

DEPTH BELOW SURFACE (FEET)	SPT BLOW COUNT 6"-6"(N)	INTERVAL (FT)	RECOVERY (FT)	SAMPLE NAME & TYPE E.G.cuttings	SYMBOLIC LOG	CORE DESCRIPTION: SOIL NAME, (USCS SYMBOL), COLOR (STAINING), MOISTURE CONTENT, RELATIVE DENSITY, CONSISTENCY, SOIL STRUCTURE, MINERALOGY, ODOR, PRESENCE OF NON AQUEOUS PHASE LIQUID, OTHER CONTAMINANTS	WELL: SYMBOLIC LOG	WELL: DRILLING RATE, DRILLING FLUID LOST CIRCULATION ZONES, TESTS CONDUCTED WATER LEVELS, WELL INSTRUMENTATION
151						Carbonate stringers present		
			2.5			Becomes Sandy Lean Clay at 151 ft	CL	
152						Sand lenses appear at 152 ft		
153								Sample SB3-10 collected at 153.5-154 ft
154			2.5			Poorly graded medium to coarse sand (SP), wet, some silt, lithic and quartz	SP	
155						Lean Clay (CL), strong brown, moist, hard, high plasticity	CL	Sample Y0ET2 collected at 155 ft, 04/16/2002
156			2.5					
157						**Total depth 157.5 ft**		
158								
159								
160								
161								
162								
163								
164								
165								
166								
167								
168								
169								
170								
171								
172								
173								
174								
175								

CH2MHILL

PROJECT NUMBER:	BORING NUMBER:	SHEET 1 OF 6
152293.PJ.04	SB4	

SOIL BORING LOG

PROJECT NAME: **Frontier Fertilizer Site, Davis, CA**

LOCATION: **Adjacent to CPT-10**

GROUND SURFACE ELEVATION:

DRILLING CONTRACTOR: **Gregg Drilling, Chris St. Pierre**

DRILLING METHOD AND EQUIPMENT: **Mud rotary Mobile-B80, 101 mm coring**

WATER LEVELS, DATE, AND TIME:	DRILLING START DATE & TIME:	DRILLING FINISH DATE & TIME:	LOGGER:
N/A	**04/10/02**	**04/12/02**	**Rob Pexton, Ben Moayyad**

DEPTH BELOW SURFACE (FEET)	SPT BLOW COUNT 6"-6"(N)	INTERVAL (FT)	RECOVERY (FT)	SAMPLE NAME & TYPE E.G.cuttings	SYMBOLIC LOG	CORE DESCRIPTION: SOIL NAME, (USCS SYMBOL), COLOR (STAINING), MOISTURE CONTENT, RELATIVE DENSITY, CONSISTENCY, SOIL STRUCTURE, MINERALOGY, ODOR, PRESENCE OF NON AQUEOUS PHASE LIQUID, OTHER CONTAMINANTS	WELL: SYMBOLIC LOG	WELL: DRILLING RATE, DRILLING FLUID LOST CIRCULATION ZONES, TESTS CONDUCTED WATER LEVELS, WELL INSTRUMENTATION
1						Hand auger to 5.5 ft		OVM = 0.0 ppm Oxygen good
2						No core sample obtained	NS	LEL: 0%
3								
4								
5								
6			2.0			Lean Clay (CL), dark gray 2.5YR 4/1, moist, firm, high plasticity, subangular, blocky, approximately 1% black organic specks	CL	
7								
8								
9			2.5					
10								
11			2.5			Lean Clay with Sand (CL), dark gray, wet, soft, high plasticity, with coarse sand	CL	OVM = 0.0 ppm Oxygen good LEL: 0%
12								
13						Lean Clay (CL), brown 7.5 YR 4/4, very moist, firm	CL	
14			2.5					
15						Cracks in clay filled with clay films, organic content diminished		
16			2.5					
17								
18								
19			2.5					
20						Fat Clay (CH), strong brown 7.5YR 5/6, slightly moist, hard, highly plastic	CH	Occasional gravel up to 1 inch, no sand
21			2.5					
22								
23						Lean Clay (CL) with sand, strong brown, moist, firm, low to medium plasticity, calcium carbonate cementation and nodules present	CL	Coarse sand present
24			2.5					
25								

CH2MHILL

PROJECT NUMBER: 152293.PJ.04	BORING NUMBER: SB4	SHEET 2 OF 6

SOIL BORING LOG

PROJECT NAME: **Frontier Fertilizer Site, Davis, CA**	LOCATION: **Adjacent to CPT-10**
GROUND SURFACE ELEVATION:	DRILLING CONTRACTOR: **Gregg Drilling, Chris St. Pierre**
DRILLING METHOD AND EQUIPMENT: **Mud rotary Mobile-B80, 101 mm coring**	

WATER LEVELS, DATE, AND TIME:	DRILLING START DATE & TIME:	DRILLING FINISH DATE & TIME:	LOGGER:
N/A	**04/10/02**	**04/12/02**	**Rob Pexton, Ben Moayyad**

DEPTH BELOW SURFACE (FEET)	SPT BLOW COUNT 6"-6"(N)	INTERVAL (FT)	RECOVERY (FT)	SAMPLE NAME & TYPE E.G.cuttings	SYMBOLIC LOG	CORE DESCRIPTION: SOIL NAME, (USCS SYMBOL), COLOR (STAINING), MOISTURE CONTENT, RELATIVE DENSITY, CONSISTENCY, SOIL STRUCTURE, MINERALOGY, ODOR, PRESENCE OF NON AQUEOUS PHASE LIQUID, OTHER CONTAMINANTS	WELL: SYMBOLIC LOG	WELL: DRILLING RATE, DRILLING FLUID LOST CIRCULATION ZONES, TESTS CONDUCTED WATER LEVELS, WELL INSTRUMENTATION
26			2.5			Lean Clay with Sand (CL), strong brown, moist, hard, low plasticity, medium sand and abundant calcium carbonate	CL	OVM = 0.0 ppm Oxygen good LEL: 0%
27								
28								
29			2.5					
30								
31			2.5			Lean Clay (CL), mottled greenish gray NY 5/1 and red 10R 4/8, moist, hard, low plasticity, carbonate, no nodules present	CL	Sample Y0ET3 collected at 30 ft, 04/10/2002
32								
33								
34			2.5			Mottling decreases		
35								
36			2.5			Lean Clay with sand (CL), strong brown with some gray mottling, moist, firm, medium plasticity	CL	Samples Y0ET5 and Y0ET6 collected at 35 ft, 04/10/2002 Sample SB4-1 collected at 35.5-36 ft
37								
38								
39			2.5					
40								
41			2.5			Sandy Lean Clay (CL), yellowish brown 10YR 5/6, moist, firm, medium plasticity	CL	Samples Y0ET7, Y0ET7MS, and Y0ET7MSD collected at 40 ft. 04/10/2002
42								
43						Poorly graded fine Sand with Silt and Clay (SP-SC), yellowish brown, very moist, low plasticity	SPSC	Sample SB4-2 collected at 43-43.5 ft
44			2.5					
45								
46			2.5			Sandy Lean Clay (CL), reddish yellow 7.5YR 6/6, moist, hard, medium plasticity, fine sand	CL	Sample Y0ET8 collected at 45 ft, 04/10/2002
47								
48								
49			2.5					Sample SB4-3 collected at 49-49.5 ft Sample Y0ET9 collected at 50 ft, 04/10/2002
50								

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PROJECT NUMBER: 152293.PJ.04	BORING NUMBER: SB4	SHEET 3 OF 6

SOIL BORING LOG

PROJECT NAME: **Frontier Fertilizer Site, Davis, CA** | LOCATION: **Adjacent to CPT-10**

GROUND SURFACE ELEVATION: | DRILLING CONTRACTOR: **Gregg Drilling, Chris St. Pierre**

DRILLING METHOD AND EQUIPMENT: **Mud rotary Mobile-B80, 101 mm coring**

WATER LEVELS, DATE, AND TIME:	DRILLING START DATE & TIME:	DRILLING FINISH DATE & TIME:	LOGGER:
N/A	**04/10/02**	**04/12/02**	**Rob Pexton, Ben Moayyad**

DEPTH BELOW SURFACE (FEET)	SPT BLOW COUNT 6"-6"(N)	INTERVAL (FT)	RECOVERY (FT)	SAMPLE NAME & TYPE E.G.cuttings	SYMBOLIC LOG	CORE DESCRIPTION: SOIL NAME, (USCS SYMBOL), COLOR (STAINING), MOISTURE CONTENT, RELATIVE DENSITY, CONSISTENCY, SOIL STRUCTURE, MINERALOGY, ODOR, PRESENCE OF NON AQUEOUS PHASE LIQUID, OTHER CONTAMINANTS	WELL: SYMBOLIC LOG	WELL: DRILLING RATE, DRILLING FLUID LOST CIRCULATION ZONES, TESTS CONDUCTED WATER LEVELS, WELL INSTRUMENTATION
51						Lean Clay (CL), brown 7.5YR 5/4, moist, hard, high plasticity, subangular, blocky	CL	
52			2.5					
53						Lean Clay with Sand (CL), brown, moist, firm, medium plasticity	CL	
54			2.5					
55								4 cm cobble at 55 ft
56								Sample Y0EW1 collected at 55 ft, 04/11/2002
57			2.5					
58						Sand content decreases	CL	OVM = 0.0 ppm Oxygen good LEL: 0%
59			2.5					
60						Lean Clay (CL), yellowish brown 10YR 5/4, moist, hard, high plasticity, carbonate nodules present, few clayey sand balls present	CL	Sample Y0EW2 collected at 60 ft, 04/11/2002
61			2.5					
62								Sample SB4-4 collected at 61.5-62 ft
63								
64			2.5					
65						Lean Clay with sand and silt lenses (CL), dark yellowish brown 10YR 4/4, moist, soft to hard, low to high plasticity	CL	Sample Y0EW3 collected at 65 ft, 04/11/2002
66			2.5					
67								
68								
69			2.5					
70								Sample Y0EW4 collected at 70 ft, 04/11/2002
71			2.5					
72								
73						Poorly graded sand with Clay (SP-SC), dark yellowish brown, wet, firm, low plasticity	SPSC	Sample SB4-5 collected at 73-73.5 ft
74			2.5					Sample Y0EW6 collected at 75 ft, 04/11/2002
75						Lean Clay with sand (CL)	CL	

CH2MHILL

PROJECT NUMBER: 152293.PJ.04	BORING NUMBER: SB4	SHEET 4 OF 6

SOIL BORING LOG

PROJECT NAME: **Frontier Fertilizer Site, Davis, CA** | LOCATION: **Adjacent to CPT-10**

GROUND SURFACE ELEVATION: | DRILLING CONTRACTOR: **Gregg Drilling, Chris St. Pierre**

DRILLING METHOD AND EQUIPMENT: **Mud rotary Mobile-B80, 101 mm coring**

WATER LEVELS, DATE, AND TIME:	DRILLING START DATE & TIME:	DRILLING FINISH DATE & TIME:	LOGGER:
N/A	**04/10/02**	**04/12/02**	**Rob Pexton, Ben Moayyad**

DEPTH BELOW SURFACE (FEET)	SPT BLOW COUNT 6"-6"(N)	INTERVAL (FT)	RECOVERY (FT)	SAMPLE NAME & TYPE E.G.cuttings	SYMBOLIC LOG	CORE DESCRIPTION: SOIL NAME, (USCS SYMBOL), COLOR (STAINING), MOISTURE CONTENT, RELATIVE DENSITY, CONSISTENCY, SOIL STRUCTURE, MINERALOGY, ODOR, PRESENCE OF NON AQUEOUS PHASE LIQUID, OTHER CONTAMINANTS	WELL: SYMBOLIC LOG	WELL: DRILLING RATE, DRILLING FLUID LOST CIRCULATION ZONES, TESTS CONDUCTED WATER LEVELS, WELL INSTRUMENTATION
76						Lean Clay with sand (CL), strong brown 7.5YR 5/6, moist, hard, high plasticity	CL	
			2.5					OVM = 0.0 ppm Oxygen good LEL: 0%
77								
78								
79			2.5					
80								
81						Sandy lean Clay (CL), strong brown, wet, soft, high plasticity	CL	Samples Y0EW7 and Y0EW8 collected at 80 ft, 4/11/02
			2.5					
82								
83						Lean Clay (CL), grayish brown 10YR 5/2, moist, hard, high plasticity	CL	
								Sample SB4-6 collected at 83-83.5 ft
84			2.5					
						Silty and sandy layers at 84 ft		
85								
								Sample Y0EW9 collected at 85 ft, 04/11/2002
86								
			2.5					
87								
						Silty and sandy layers at 87 ft		
88						Lean Clay (CL), grayish brown 10YR 5/2, moist, hard, high plasticity	CL	
89			2.5					
90								
91						Lean Clay (CL), light olive brown 2.5YR 5/4, moist, firm, high plasticity, few small carbonate nodules present	CL	Sample Y0EX1 collected at 90 ft, 04/11/2002
			2.5					
92								OVM = 0.0 ppm Oxygen good LEL: 0%
93								
94			2.5					
95								
						Becomes hard		Sample Y0EX2 collected at 95 ft, 04/11/2002
96								
			2.5					
97								
98						Lean Clay with Sand (CL), mottled gray 2.5YR 5/1 to brown 10YR 4/3, moist, hard, high plasticity	CL	
99			2.5					
100								Sample Y0EX3 collected at 100 ft, 04/11/2002

CH2MHILL

PROJECT NUMBER: 152293.PJ.04	BORING NUMBER: SB4	SHEET 5 OF 6

SOIL BORING LOG

PROJECT NAME: **Frontier Fertilizer Site, Davis, CA**	LOCATION: **Adjacent to CPT-10**
GROUND SURFACE ELEVATION:	DRILLING CONTRACTOR: **Gregg Drilling, Chris St. Pierre**
DRILLING METHOD AND EQUIPMENT: **Mud rotary Mobile-B80, 101 mm coring**	

WATER LEVELS, DATE, AND TIME:	DRILLING START DATE & TIME:	DRILLING FINISH DATE & TIME:	LOGGER:
N/A	**04/10/02**	**04/12/02**	**Rob Pexton, Ben Moayyad**

DEPTH BELOW SURFACE (FEET)	SPT BLOW COUNT 6"-6"(N)	INTERVAL (FT)	RECOVERY (FT)	SAMPLE NAME & TYPE E.G.cuttings	SYMBOLIC LOG	CORE DESCRIPTION: SOIL NAME, (USCS SYMBOL), COLOR (STAINING), MOISTURE CONTENT, RELATIVE DENSITY, CONSISTENCY, SOIL STRUCTURE, MINERALOGY, ODOR, PRESENCE OF NON AQUEOUS PHASE LIQUID, OTHER CONTAMINANTS	WELL: SYMBOLIC LOG	WELL: DRILLING RATE, DRILLING FLUID LOST CIRCULATION ZONES, TESTS CONDUCTED WATER LEVELS, WELL INSTRUMENTATION
101			2.5			Lean Clay with Sand (CL), strong brown 10YR 5/4, moist, hard, high plasticity, some gray mottling	CL	OVM = 0.0 ppm Oxygen good LEL: 0%
102								
103								
104			2.5					
105						Sandy Lean Clay (CL), strong brown 10YR 5/6, moist, hard, medium plasticity	CL	Samples Y0EX4, Y0EX4MS, and Y0EX4MSD collected at 105 ft
106			2.5					
107								Fining upward sequence 100 to 125 ft
108						Poorly graded fine Sand with Silt and Clay (SP-SC), wet, firm, low plasticity	SPSC	
109			2.5					
110								Sample SB4-7 collected at 109.5-110ft
111			2.5			Poorly graded medium Sand (SP), wet, soft, non-plastic, small rounded chert gravel content increases with depth	SP	Sample Y0EW5 collected at 110 ft, 04/11/2002
112								
113						No recovery - 2 cobbles recovered only	NSNR	
114			0.0					
115								
116			0.5	Hammer split spoon 41_50		Well graded Gravel (GW), coarse gravel to medium sand, wet, consists of rounded sandstone gravel up to 4 cm in diameter	GW	Sample Y0EW7 collected at 115 ft, 04/11/2002 Sample SB4-8 collected at 116-116.5 ft
117								
118								
119			1.0	Hammer split spoon 34_50		Well graded Gravel (GW), sandy fine gravel, 15-45% quartz and chert sand, 55-80% rounded, chert and sandstone gravel	GW	
120								Sample Y0EW8 collected at 120 ft, 04/11/2002 Sample SB4-9 collected at 120-120.5 ft
121								
122								
123								
124			1.0	Hammer split spoon 38_50		Poorly graded medium Sand (SP) and well graded Gravel (GW), rounded gravel and sand, primarily quartz and chert sand and sandstone gravel	SPGW	Sample Y0EW9 collected at 125 ft, 04/11/2002
125								

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PROJECT NUMBER:	BORING NUMBER:	SHEET 6 OF 6
152293.PJ.04	SB4	

SOIL BORING LOG

PROJECT NAME: **Frontier Fertilizer Site, Davis, CA**

LOCATION: **Adjacent to CPT-10**

GROUND SURFACE ELEVATION:

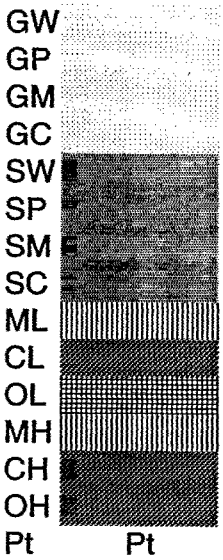
DRILLING CONTRACTOR: **Gregg Drilling, Chris St. Pierre**

DRILLING METHOD AND EQUIPMENT: **Mud rotary Mobile-B80, 101 mm coring**

WATER LEVELS, DATE, AND TIME:	DRILLING START DATE & TIME:	DRILLING FINISH DATE & TIME:	LOGGER:
N/A	**04/10/02**	**04/12/02**	**Rob Pexton, Ben Moayyad**

DEPTH BELOW SURFACE (FEET)	SPT BLOW COUNT 6"-6"(N)	INTERVAL (FT)	RECOVERY (FT)	SAMPLE NAME & TYPE E.G.cuttings	SYMBOLIC LOG	CORE DESCRIPTION: SOIL NAME, (USCS SYMBOL), COLOR (STAINING), MOISTURE CONTENT, RELATIVE DENSITY, CONSISTENCY, SOIL STRUCTURE, MINERALOGY, ODOR, PRESENCE OF NON AQUEOUS PHASE LIQUID, OTHER CONTAMINANTS	WELL: SYMBOLIC LOG	WELL: DRILLING RATE, DRILLING FLUID LOST CIRCULATION ZONES, TESTS CONDUCTED WATER LEVELS, WELL INSTRUMENTATION
126						Elastic Silt (MH), approximately 10-25% sand, yellowish brown, wet, firm, medium to low plasticity	MH	Sample SB4-10 collected at 125.5-126 ft
			2.5					
127								
128						Sandy Lean Clay (CL), yellowish brown, moist, firm, medium plasticity	CL	
129			2.5					
130								
131						Sandy Lean Clay (CL) with sand layers at 131.5 and 135 ft, strong brown 7.5YR 5/6, moist, firm, medium plasticity	CL	Sample Y0EY1 collected at 130 ft, 04/12/2002
			2.5					
132								
133								
134			2.5					
135								
136						Lean Clay (CL), strong brown, moist, hard, high plasticity	CL	Sample Y0EY2 collected at 135 ft, 04/12/2002 Sample SB4-11 collected at 136-136.5 ft
			2.5					
137								
138						Sandy Lean Clay (CL), strong brown, moist, hard, high plasticity	CL	
139			2.5					
140								
141						Lean Clay (CL), strong brown, moist, hard, high plasticity	CL	Sample Y0EY3 collected at 140 ft, 04/12/2002
			2.0					
142						**Total depth 142.5 ft**		
143								
144								
145								
146								
147								
148								
149								
150								

SYMBOLS



Well Logs

Project: Frontier Fertilizer
Project Location: Davis, California
Project Number: 41-F2502900.10 04004

Log of Boring OW-15D

Sheet 1 of 2

Date(s) Drilled	12/7/01 - 12/10/01	Logged By	M. Hogaboom	Checked By	DB
Drilling Method	Hollow Stem Auger	Drill Bit Size/Type		Total Depth Drilled (feet)	133.5
Drill Rig Type	CME-85	Drilling Contractor	Water Development Corporation	Hammer Weight/ Drop (lbs/in.)	
Groundwater Level (feet)		Date Measured		Approx. Surface Elevation (feet)	
Diameter of Hole (inches)	8-inch / Diameter of Well (inches) 2-inch	Type of Well Casing	SCH 40 PVC Casing, Stainless Steel Screen	Screen Perforation	0.020-inch slot
Type of Sand Pack	#3 Sand	Type/Thickness of Seal(s)	#30 Transition Sand		
Comments	Grab Samples from cuttings - what? Can't log from cuttings				

Elevation feet	Depth, feet	SAMPLES Type	Description	Blows/foot	Headspace (ppm)	Graphic Log	MATERIAL DESCRIPTION	Drilling Progress (24-hour clock)	Well Completion Log	REMARKS AND WELL DETAIL
	0									Flush-mount well seal (no lock)
	5						Silt with clay and sand (ML). (0,5,80,15), non - low plastic, soft, fine grained sand, moist, greyish brown.			Grout to Surface
	10						Silty Clay (CL). Trace sand, low plasticity, soft, moist, greyish brown.			
	15						Silty Clay (CL). Low plasticity, stiff, moist, greyish brown.			2-inch SCH 40 PVC
	20						Silty Clay (CL). Low plasticity, stiff, moist, greyish brown.			
	25						Silty Clay (CL). Low to moderate plasticity, stiff, damp, yellowish brown.			
	30						Silty Clay (CL). Low plasticity, stiff, damp, yellowish brown.			
	35						Silt with clay (ML). Nonplastic, soft, damp, yellowish brown.			
	40						Silty Clay (CL). Low plastic, soft, damp, yellowish brown.			
	45						Silty Clay (CL). Low plasticity, soft, damp, yellowish brown.			
	50						Silty Clay (CL). Low to moderate plasticity, soft, moist, yellowish brown.			
	55						Silty Clay (CL). Low plasticity, soft, moist, yellowish brown.			
	60									

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Report: ENV_ Project File: G:\GINT\PROJECTS\FRONTIER.GPJ; Data Template:WC_CORP1.GDT Printed: 12/17/01

URS Corporation

Project: Frontier Fertilizer
Project Location: Davis, California
Project Number: 41-F2502900.10 04004

Log of Boring OW-15D

Elevation feet	Depth, feet	SAMPLES Type	SAMPLES Description	SAMPLES Blows/foot	SAMPLES Headspace (ppm)	Graphic Log	MATERIAL DESCRIPTION	Drilling Progress (24-hour clock)	Well Completion Log	REMARKS AND WELL DETAIL
	60						Silty Clay (CL). Low to moderate plasticity, soft, moist, yellowish brown.			
	65						Silty Clay (CL). Low - moderate plasticity, soft, moist, yellowish brown.			
	70						No cuttings recovered			
	75						No cuttings recovered			
	80						Silty Sand (SM). (0,40,60,0) fine grained, trace coarse grained, subangular to subrounded, wet, yellowish brown.			
	85						Silty Sand with Gravel (SM). (15,40,45,0) Fine - coarse grained sand, subangular to subrounded, fine gravel, angular to subangular, wet, yellowish brown silt, very dark grey sand.			
	90						Silty Sand (SM). Trace gravel (5,55,40,0) fine - coarse grained sand, mostly medium - coarse, subangular - rounded, fine gravel, wet, yellowish brown silt.			
	95						Silty Sand (SM). Trace gravel, (5,55,40,0), fine - coarse grained sand, subangular - subrounded, fine gravel, wet, yellowish brown silt.			
	100						Silty Sand with Clay (SM). (5,45,40,10), fine to coarse grained sand, subangular - subrounded, trace fine gravel, wet, yellowish brown silt.			
	105						Silty Sand with Clay (0,40,45,15) fine to coarse grained sand, nonplastic fines, wet, yellowish brown. (SM)			
	110						Silty Sand/Sandy Silt with Clay (SM) (0,40,45,15) fine to coarse grained sand, nonplastic fines, wet, yellowish brown.			#30 Transition Sand 110-115'
	115						Silt (ML). Trace sand, medium - coarse grained, nonplastic, wet, yellowish brown.			
	120						No cuttings recovered			
	125									2-inch Stainless Steel, 0.020-inch Slot Screen, #3 Filter Pack Sand
	130						Silt with Sand (ML) Trace clay, medium - coarse grained sand, nonplastic fines, wet, yellowish brown.			Total Depth = 133.5' bgs
	135									
	140									

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Report: ENV_1A; Project File: G:\GINT\PROJECTS\FRONTIER.GPJ; Data Template:WC_CORP1.GDT Printed: 12/17/01

URS Corporation

Project: Frontier Fertilizer
Project Location: Davis, California
Project Number: 41-F2502900.10 04004

Log of Boring OW-19C

Date(s) Drilled	12/4/01 - 12/5/01		Logged By	M. Hogaboom	Checked By DB
Drilling Method	Hollow Stem Auger		Drill Bit Size/Type		Total Depth Drilled (feet) 108.0
Drill Rig Type	CME-85		Drilling Contractor	Water Development Corporation	Hammer Weight/ Drop (lbs/in.)
Groundwater Level (feet)			Date Measured		Approx. Surface Elevation (feet)
Diameter of Hole (inches)	6-inch	Diameter of Well (inches) 2-inch	Type of Well Casing	SCH 40 PVC Casing, Stainless Steel Screen	Screen Perforation 0.020-inch slot
Type of Sand Pack	#3 Sand		Type/Thickness of Seal(s)	#30 Transition Sand	
Comments	Grab Samples from Cuttings - what?				

Elevation feet	Depth, feet	SAMPLES Type	Description	Blows/foot	Headspace (ppm)	Graphic Log	MATERIAL DESCRIPTION	Drilling Progress (24-hour clock)	Well Completion Log	REMARKS AND WELL DETAIL
	0									Flush-mount well seal (no lock)
	5						Sandy Silt (ML). Fine to coarse grained sand, trace gravel, nonplastic, dry, brown.			Grout to Surface
	10						Sandy Silt (ML). Trace clay, nonplastic, fine to coarse grained sand, dry, brown.			
	15						Silty Clay (CL). Moderate plasticity, medium stiff, trace sand, moist, brown.			2-inch SCH 40 PVC
	20						Silty Clay (CL) Trace sand, medium stiff, medium to high plasticity, moist, brown			
	25						Silty Clay (CL). Medium stiff, moderate plasticity, moist, brown.			
	30						Silty Clay (CL). Low plasticity, medium stiff, moist, brown.			
	35						Silty Clay (CL). Moderate plasticity, soft, wet, brown.			
	40						Silty Clay (CL). Moderate plasticity, soft, wet, brown.			
	45						Silty Clay(CL). Moderate plasticity, soft, moist - wet, brown.			
	50									

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Report: EN ...ject File: G:\GINT\PROJECTS\FRONTIER.GPJ; Data Template:WC_CORP1.GDT Printed: 12/17/01

Project: Frontier Fertilizer
Project Location: Davis, California
Project Number: 41-F2502900.10 04004

Log of Boring OW-19C

Elevation feet	Depth, feet	SAMPLES Type	SAMPLES Description	SAMPLES Blows/foot	SAMPLES Headspace (ppm)	Graphic Log	MATERIAL DESCRIPTION	Drilling Progress (24-hour clock)	Well Completion Log	REMARKS AND WELL DETAIL
	50						Silty Clay (CL). Trace sand, low - moderate plasticity, soft, moist, brown with orange mottling.			
	55						Silty Clay (CL). Trace sand, moderate plasticity, soft, moist, brown.			
	60						Silty Clay (CL). Trace sand, moderate plasticity, soft, moist, brown.			
	65						Silt with clay (ML). Trace sand, nonplastic, saturated, yellowish brown.			
	70						Silt with sand and clay (ML). 10% sand, nonplastic, saturated, yellowish brown.			
	75						Silt with clay (ML). <10% sand, low plasticity, saturated, yellowish brown.			Bentonite Sea
	80						Sandy Silt (ML). Nonplastic, 20% fine sand, saturated, yellowish brown.			
	85						Silt with sand (ML). Trace clay, fine sand, nonplastic, saturated, yellowish brown.			#30 Transition Sand 85-87.5'
	90						Silt (ML). Nonplastic, trace fine sand, saturated, yellowish brown.			
	95						Sandy Silt (ML). Fine with trace coarse grained, nonplastic, saturated, yellowish brown.			
	100						Sandy Silt (ML). Fine with trace coarse grained, nonplastic, saturated, yellowish brown.			2-inch Stainless Steel, 0.020-inch Slot Screen, #3 Filter Pack Sand
	105						Sandy Silt (ML). 20% fine grained with trace coarse sand, nonplastic, saturated, yellowish brown.			Stainless Steel Endcap Total Depth = 108' bgs
	110									
	115									

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Report: ENV_1A; Project File: G:\GINT\PROJECTS\FRONTIER.GPJ; Data Template:WC_CORP1.GDT Printed: 12/17/01

Project: Frontier Fertilizer
Project Location: Davis, California
Project Number: 41-F2502900.10 04004

Log of Boring OW-19D

Sheet 1 of 2

Date(s) Drilled	12/5/01 - 12/6/01	Logged By	M. Hogaboom	Checked By	DB
Drilling Method	Hollow Stem Auger	Drill Bit Size/Type		Total Depth Drilled (feet)	134.0
Drill Rig Type	CME-85	Drilling Contractor	Water Development Corporation	Hammer Weight/ Drop (lbs/in.)	
Groundwater Level (feet)		Date Measured		Approx. Surface Elevation (feet)	
Diameter of Hole (inches)	8-inch / Diameter of Well (inches) 2-inch	Type of Well Casing	SCH 40 PVC Casing, Stainless Steel Screen	Screen Perforation	0.020-inch slot
Type of Sand Pack	#3 Sand	Type/Thickness of Seal(s)	#30 Transition Sand		
Comments	Grab Samples from Cuttings				

Elevation feet	Depth, feet	SAMPLES Type	Description	Blows/foot	Headspace (ppm)	Graphic Log	MATERIAL DESCRIPTION	Drilling Progress (24-hour clock)	Well Completion Log	REMARKS AND WELL DETAIL
	0									Flush-mount well seal (no lock)
	5						Silty Sand with Gravel (SM). (15,45,40,0) Nonplastic fines, subangular - subrounded sand and gravel, medium - coarse grained sand, fine gravel, brown, dry.			Grout to Surface
	10						Silt (ML). Trace gravel, nonplastic, dry to slightly moist, reddish brown.			
	15						Silty Clay (CL). Trace coarse sand, low to moderate plasticity, medium stiff, damp, brown.			2-inch SCH 40 PVC
	20						Silty Clay (CL). Trace coarse sand, low plasticity, medium stiff, damp, brown.			
	25						Silty Clay (CL). Low to moderate plasticity, medium stiff, damp, reddish brown.			
	30						Silty Clay (CL). Low to moderate plasticity, medium stiff, damp, yellowish brown.			
	35						Silty Clay (CL). Low to moderate plasticity, soft, damp, yellowish brown.			
	40						Silty Clay (CL). Moderate plasticity, soft, trace root casts, damp, yellowish brown.			
	45						Silty Clay (CL). Moderate plasticity, soft, damp - wet, yellowish brown.			
	50						Silty Clay (CL). Low to moderate plasticity, soft, moist - wet, yellowish brown.			
	55						Silty Clay (CL). Low to moderate plasticity, soft, moist - wet, yellowish brown.			
	60									

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Report: EN Project File: G:\GINT\PROJECTS\FRONTIER.GPJ; Data Template:WC_CORP1.GDT Printed: 12/17/01

URS Corporation

Project: Frontier Fertilizer
Project Location: Davis, California
Project Number: 41-F2502900.10 04004

Log of Boring OW-19D

Elevation feet	Depth, feet	SAMPLES Type	SAMPLES Description	SAMPLES Blows/foot	SAMPLES Headspace (ppm)	Graphic Log	MATERIAL DESCRIPTION	Drilling Progress (24-hour clock)	Well Completion Log	REMARKS AND WELL DETAIL
	60						Silty Clay (CL). Trace sand, wet, yellowish brown.			
	65						Silty Clay (CL). Trace sand, wet, yellowish brown.			
	70						Silty Clay (CL). Low to moderate plasticity, medium stiff, moist - wet, yellowish brown.			
	75						Silty Clay (CL). Trace coarse sand, low to moderate plasticity, soft, moist - wet, yellowish brown.			
	80						Silty Clay (CL). 10% coarse grained sand, low to moderate plasticity, soft, moist - wet, yellowish brown.			
	85						Silt with clay and sand (ML). (0,10,70,20), low to moderate plasticity, medium stiff clay, trace gravel, moist - wet, greyish brown clay, yellowish brown silts.			
	90						Silt with clay and sand (ML) (0,10,80,10), nonplastic, wet, yellowish brown.			
	95						Silt with sand (ML). Trace clay, nonplastic, (0,[illegible],5), wet, yellowish brown.			
	100						Sandy Silt (ML). Nonplastic, fine sand, wet, yellowish brown.			
	105						Sandy Silt (ML). Nonplastic, fine sand, wet, yellowish brown.			
	110						Sandy Silt (ML). Nonplastic, fine sand, wet, yellowish brown.			#30 Transition Sand 110-115'
	115						Sandy Silt (ML). Nonplastic, fine sand, wet, yellowish brown.			
	120						Sandy Silt (ML). Nonplastic, fine sand, wet, yellowish brown.			2-inch Stainless Steel, 0.020-inch Slot Screen, #3 Filter Pack Sand
	125						Silty Sand (SM). Fine grained, wet, yellowish brown.			
	130						Silty Sand (SM). Fine grained, wet, yellowish brown.			Stainless Steel Endcap
	135									Total Depth = 134'
	140									

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Report: ENV_1A; Project File: G:\GINT\PROJECTS\FRONTIER.GPJ; Data Template:WO_CORP1.GDT Printed: 12/17/01

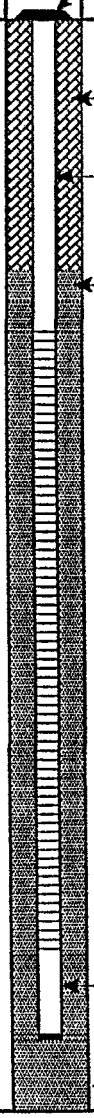
Project: Frontier Fertilizer
Project Location: Davis, California
Project Number: 41-F2502900.10 04004

Log of Boring X-6A

Sheet 1 of 1

Date(s) Drilled	11/19/01 - 11/20/01	Logged By	H. Phillips	Checked By	DB
Drilling Method	Mud Rotary	Drill Bit Size/Type	14.25-inch Mill bit	Total Depth Drilled (feet)	70.0
Drill Rig Type		Drilling Contractor	Water Development Corporation	Hammer Weight/ Drop (lbs/in.)	
Groundwater Level (feet)		Date Measured		Approx. Surface Elevation (feet)	
Diameter of Hole (inches)	16-inch / Diameter of Well (inches) 8-inch	Type of Well Casing	Low Carbon Steel Casing, Stainless Steel Screen	Screen Perforation	0.020-inch slot
Type of Sand Pack	#2/12 Sand	Type/Thickness of Seal(s)	#60 Transition Sand		
Comments					

Elevation feet	Depth, feet	SAMPLES Type	Description	Blows/foot	Headspace (ppm)	Graphic Log	MATERIAL DESCRIPTION	Drilling Progress (24-hour clock)
	0						Conductor casing to 12 ft bgs. Overdrilled to 20 ft bgs. No samples.	
	5							
	10							
	15							
	20						Clay (CL). Trace silt, moderate to highly plastic, soft (1.0 p.p.), brown with some gray mottling, damp.	
	25						Clay (CL). Some silt, moderate to highly plastic, soft to medium stiff (1.5 p.p.), brown with gray mottling, damp.	
	30						Clay (CL). Trace silt, moderate to highly plastic, stiff, brown with gray mottling, damp.	
	35						Clay with Silt (CL). Moderate - high plasticity, medium stiff, reddish brown with gray mottling.	
	40						Silty Clay (CL). Moderate plasticity, soft to medium stiff, reddish brown with gray mottling.	
	45						Silty Clay (CL). Medium to high plasticity, soft to medium stiff, brown.	
	50						Silt with Clay (ML). Low plasticity, soft, very fine grained, brown.	
	55						Silty Sand with Clay (SM). (0,50,40,10), fine grained sand, subangular to rounded, mostly mafics, nonplastic fines, yellowish brown.	
					SPT		Silty Clay (CL). <10% fine sand, low plasticity fines, medium stiff, yellowish brown.	
	60						Silty Sand lense with minor clay, yellowish brown. Silty Clay (CL). Moderate plasticity, stiff, yellowish brown with gray mottling.	
	65						Silty Clay (CL). Low to moderate plasticity, soft to medium stiff, brown with orange and gray mottling.	
	70							



REMARKS AND WELL DETAIL

DRAFT

Report: ENV; Project File: G:\GINT\PROJECTS\FRONTIER.GPJ; Data Template:WC_CORP1.GDT Printed: 12/19/01

URS Corporation

Project: Frontier Fertilizer
Project Location: Davis, California
Project Number: 41-F2502900.10 04004

Log of Boring X-6B

Sheet 1 of 2

Date(s) Drilled	11/13/01 - 11/16/01	Logged By	H. Phillips	Checked By	DB
Drilling Method	Mud Rotary	Drill Bit Size/Type	14.25-inch Mill bit	Total Depth Drilled (feet)	102.0
Drill Rig Type		Drilling Contractor	Water Development Corporation	Hammer Weight/ Drop (lbs/in.)	
Groundwater Level (feet)		Date Measured		Approx. Surface Elevation (feet)	
Diameter of Hole (inches)	16-inch / Diameter of Well (inches) 8-inch	Type of Well Casing	Low Carbon Steel Casing, Stainless Steel Screen	Screen Perforation	0.020-inch slot
Type of Sand Pack	#2/12 Sand	Type/Thickness of Seal(s)	#60 Transition Sand		
Comments					

Elevation feet	Depth, feet	SAMPLES Type	Description	Blows/foot	Headspace (ppm)	Graphic Log	MATERIAL DESCRIPTION	Drilling Progress (24-hour clock)	Well Completion Log	REMARKS AND WELL DETAIL
	0						Conductor casing to 12 ft bgs. Overdrilled to 20 ft bgs. No samples.			Flush-mount well seal (no lock)
	5									
	10									Grout to Surf
	15									
	20						Clay (CL). Trace silt, moderate to highly plastic, soft (1.0 p.p.), brown with some gray mottling, damp.			8" Low Carbon Steel Casing
	25						Clay (CL). Some silt, moderate to highly plastic, soft to medium stiff (1.5 p.p.), brown with gray mottling, damp.			
	30						Clay (CL). Trace silt, moderate to highly plastic, stiff, brown with gray mottling, damp.			
	35						Clay with Silt (CL). Moderate - high plasticity, medium stiff, reddish brown with gray mottling.			
	40						Silty Clay (CL). Moderate plasticity, soft to medium stiff, reddish brown with gray mottling.			
	45						Silty Clay (CL). Medium to high plasticity, soft to medium stiff, brown.			
	50									

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Report: ENV_1A; Project File: G:\GINT\PROJECTS\FRONTIER.GPJ; Data Template:WC_CORP1.GDT Printed: 12/18/01

URS Corporation

Project: Frontier Fertilizer
Project Location: Davis, California
Project Number: 41-F2502900.10 04004

Log of Boring X-6B

Elevation feet	Depth, feet	SAMPLES Type	SAMPLES Description	SAMPLES Blows/foot	SAMPLES Headspace (ppm)	Graphic Log	MATERIAL DESCRIPTION	Drilling Progress (24-hour clock)	Well Completion Log	REMARKS AND WELL DETAIL
	50						Silt with Clay (ML). Low plasticity, soft, very fine grained, brown.			
	55						Silty Sand with Clay (SM). (0,50,40,10), fine grained sand, subangular to rounded, mostly mafics, nonplastic fines, yellowish brown.			
							Silty Clay (CL). <10% fine sand, low plasticity fines, medium stiff, yellowish brown.			
							Silty Sand lense with minor clay, yellowish brown.			
	60						Silty Clay (CL). Moderate plasticity, stiff, yellowish brown with gray mottling.			#60 Transition Sand 62-64'
	65						Silty Clay (CL). Low to moderate plasticity, soft to medium stiff, brown with orange and gray mottling.			
	70						Silty Clay (CL). Moderate plasticity, stiff, brown with orange mottling.			
							Silty Clay (CL). 10% fine grained sand, moderate plasticity, medium stiff, brown with white mottling.			
	75						Silty Sand with minor Clay (SM). (0,55,40,5), fine sand, subangular to rounded, low plastic fines, yellowish brown. Clay increasing with depth (0,45,40,15).			8-inch Stainless Steel, 0.020-inch Slot Screen, #2/12 Filter Pack Sand
	80						Silty Clay (CL). Trace fine sand, moderate plasticity, soft, reddish brown with gray mottling.			
							Silty Fine Sand (SP). (0,70,25,5) reddish brown with gray mottling, moist.			
	85						Silty Clayey Fine Sand (SP). (0,55,25,20) brown with gray mottling, moist.			
	90						Silty Fine Sand (SP). (0,60,25,5) reddish brown, wet.			
	95						No Recovery.			
	100						Total Depth 11/13/01 = 100 feet bgs. Reamed to 102 feet bgs 11/15/01 prior to well construction.			3' Sump with Endcap Total Depth = 102' bgs
	105									
	110									
	115									

DRAFT

Report: ENV; set File: G:\GINT\PROJECTS\FRONTIER.GPJ; Data Template:WC_CORP1.GDT Printed: 12/19/01

URS Corporation

Project: Frontier Fertilizer
Project Location: Davis, California
Project Number: 41-F2502900.10 04004

Log of Boring X-7B

Date(s) Drilled	11/5/01 - 11/7/01	Logged By	H. Phillips	Checked By	DB
Drilling Method	Mud Rotary	Drill Bit Size/Type	14.25-inch Mill bit	Total Depth Drilled (feet)	85.0
Drill Rig Type		Drilling Contractor	Water Development Corporation	Hammer Weight/ Drop (lbs/in.)	
Groundwater Level (feet)		Date Measured		Approx. Surface Elevation (feet)	
Diameter of Hole (inches)	16-inch / Diameter of Well (inches) 8-inch	Type of Well Casing	Low Carbon Steel Casing, Stainless Steel Screen	Screen Perforation	0.040-inch slot
Type of Sand Pack	#8 Sand	Type/Thickness of Seal(s)	#60 Transition Sand		
Comments					

Elevation feet	Depth, feet	SAMPLES Type	Description	Blows/foot	Headspace (ppm)	Graphic Log	MATERIAL DESCRIPTION	Drilling Progress (24-hour clock)	Well Completion Log	REMARKS AND WELL DETAIL
	0						Conductor casing to 12 feet bgs, overdrill to 15 ft bgs. No samples.			Flush-mount well seal (no lock)
	5									
	10									Grout to Surface
	15						Silty Clay (CL). Highly plastic, medium stiff (p.p. 1.2), yellowish brown, damp.			
	20						Clayey Silt (ML). Moderate plasticity, stiff (3.0 p.p.), to very stiff, brown with dark brown mottling, damp.			8" Low Carbon Steel Casing
	25									
	30									
	35						No Recovery.			
	40									

DRAFT

Report: ENV_1A; Project File: G:\GINTPROJECTS\FRONTIER.GPJ; Data Template:WC_CORP1.GDT Printed: 12/17/01

Project: Frontier Fertilizer
Project Location: Davis, California
Project Number: 41-F2502900.10 04004

Log of Boring X-7B

Elevation feet	Depth, feet	SAMPLES Type	SAMPLES Description	SAMPLES Blows/foot	SAMPLES Headspace (ppm)	Graphic Log	MATERIAL DESCRIPTION	Drilling Progress (24-hour clock)	Well Completion Log	REMARKS AND WELL DETAIL
	40						Silty Clay (CL). Highly plastic, medium stiff, yellowish brown, wet. Only 6" of recovery (sluff?)			
	45						Clay)CL). Trace silt, moderate plasticity, hard (4.0 p.p.), yellowish brown with gray mottling, damp.			
	50									#60 Transition Sand 52-54'
	55						Silty Clay (CL). Moderate to highly plastic, stiff, yellowish brown with gray mottling, damp.			
	60						Gravelly Clay (CL). Moderate plasticity, medium stiff, yellowish brown, wet. Fine Sandy Silty Clay(CL). Moderate plasticity, medium stiff, yellowish brown, wet. Clay (CL). Trace silty, moderate plasticity, hard (4.25 p.p.), yellowish brown with gray mottling, damp.			
	65						Fine Sandy Clay (CL). Moderate plasticity, medium stiff, yellowish brown with gray mottling, damp.			8-inch Stainless Steel, 0.040-inch Slot Screen, #8 Filter Pack Sand
	70						Silty Clay (CL). Highly plastic, medium stiff (1.5 p.p.), yellowish brown with gray mottling, wet.			
	75						Sandy Gravelly Clay (CL). Low to moderate plasticity, soft, yellowish brown with gray mottling, wet. Clay (CL). Trace silt, medium stiff, moderate plasticity, yellowish brown with gray mottling, damp.			
	80						Fine Sandy Clay (CL). Trace silt, moderate plasticity, soft, yellowish brown, moist. Silty Clay (CL). Low to moderate plasticity, very stiff (4.0 p.p.), reddish brown, damp.			5' Sump with Endcap
	85									Total Depth = 85' bgs
	90									

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Report: ENT Project File: G:\GINT\PROJECTS\FRONTIER.GPJ; Data Template:WC_CORP1.GDT Printed: 12/17/01

Project: Frontier Fertilizer
Project Location: Davis, California
Project Number: 41-F2502900.10 04004

Log of Boring X-7C

Date(s) Drilled	10/25/01 - 11/2/01		Logged By	H. Phillips	Checked By	DB
Drilling Method	Mud Rotary		Drill Bit Size/Type	14.25-inch Mill bit	Total Depth Drilled (feet)	160.0
Drill Rig Type			Drilling Contractor	Water Development Corporation	Hammer Weight/ Drop (lbs/in.)	
Groundwater Level (feet)			Date Measured		Approx. Surface Elevation (feet)	
Diameter of Hole (inches)	16-inch	Diameter of Well (inches) 8-inch	Type of Well Casing	Low Carbon Steel Casing, Stainless Steel Screen	Screen Perforation	0.040-inch slot
Type of Sand Pack	#8 Sand		Type/Thickness of Seal(s)	#60 Transition Sand		
Comments						

Elevation feet	Depth, feet	SAMPLES Type	Description	Blows/foot	Headspace (ppm)	Graphic Log	MATERIAL DESCRIPTION	Drilling Progress (24-hour clock)	Well Completion Log	REMARKS AND WELL DETAIL
	0						Conductor casing to 12 feet bgs, overdrill to 15 ft bgs. No samples.			Flush-mount well seal (no lock)
	5									
	10									Grout to Surf.
	15				0.0		Silty Clay (CL). Highly plastic, medium stiff (P.P. 1.2), yellowish brown, damp.			
	20				0.1		Clayey Silt (ML). Moderate plasiticity, stiff (3.0 p.p.), to very stiff, brown with dark brown mottling, damp.			8" Low Carbon Steel Casing
	25									
	30				0.1					
	35				0.1					
	40				0.0		No Recovery. Silty Clay (CL). Highly plastic, medium stiff, yellowish brown, wet. Only 6" of recovery (stuff?)			
	45									

DRAFT

Report: ENV_1A; Project File: G:\GINT\PROJECTS\FRONTIER.GPJ; Data Template:WC_CORP1.GDT Printed: 12/17/01

URS Corporation

Project: Frontier Fertilizer
Project Location: Davis, California
Project Number: 41-F2502900.10 04004

Log of Boring X-7C

Elevation feet	Depth, feet	SAMPLES Type	SAMPLES Description	SAMPLES Blows/foot	SAMPLES Headspace (ppm)	Graphic Log	MATERIAL DESCRIPTION	Drilling Progress (24-hour clock)	Well Completion Log	REMARKS AND WELL DETAIL
	45						Clay)CL). Trace silt, moderate plasticity, hard (4.0 p.p.), yellowish brown with gray mottling, damp.			
					0.1					
	50									
					0.1					
	55						Silty Clay (CL). Moderate to highly plastic, stiff, yellowish brown with gray mottling, damp.			
					0.1		Gravelly Clay (CL). Moderate plasticity, medium stiff, yellowish brown, wet.			
	60						Fine Sandy Silty Clay(CL). Moderate plasticity, medium stiff, yellowish brown, wet.			
							Clay (CL). Trace silty, moderate plasticity, hard (4.25 p.p.), yellowish brown with gray mottling, damp.			
					0.1					
	65						Fine Sandy Clay (CL). Moderate plasticity, medium stiff, yellowish brown with gray mottling, damp.			
					0.1					
	70						Silty Clay (CL). Highly plastic, medium stiff (1.5 p.p.), yellowish brown with gray mottling, wet.			
					0.1					
	75						Sandy Gravelly Clay (CL). Low to moderate plasticity, soft, yellowish brown with gray mottling, wet.			
					0.1		Clay (CL). Trace silt, medium stiff, moderate plasticity, yellowish brown with gray mottling, damp.			
	80						Fine Sandy Clay (CL). Trace silt, moderate plasticity, soft, yellowish brown, moist.			
							Silty Clay (CL). Low to moderate plasticity, very stiff (4.0 p.p.), reddish brown, damp.			
					0.1					
	85						Clayey Silt (ML). Moderate plasticity, soft, yellowish brown, moist.			#60 Transition Sand 84-89'
					0.1					
	90						Silty Fine Sand (SM). (0,60,30,10), loose, damp, brown.			
					0.1		Silty Fine Sand (SM). Trace fine to coarse gravel, subangular to subrounded, (15,50,25,5), loose, brown, damp.			
	95						No Recovery			
	100						No Recovery			
	105									

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Report: ENV. Project File: G:\GINT\PROJECTS\FRONTIER.GPJ; Data Template:WC_CORP1.GDT Printed: 12/17/01

Project: Frontier Fertilizer
Project Location: Davis, California
Project Number: 41-F2502900.10 04004

Log of Boring X-7C

Elevation feet	Depth, feet	SAMPLES Type	Description	Blows/foot	Headspace (ppm)	Graphic Log	MATERIAL DESCRIPTION	Drilling Progress (24-hour clock)	Well Completion Log	REMARKS AND WELL DETAIL
	105						Very Fine Sand some Silt (SM). (0,65,30,5), loose gray brown, wet.			8-inch Stainless Steel, 0.040-inch Slot Screen, #8 Filter Pack Sand
					0.1		Gravel (GW). Fine to coase gravel (65,25,5,5), loose, subangular to angular, saturated.			
	110						Silty Fine Sand (SM). (0,65,30,5) loose, brown, moist.			
							Clayey Silt (ML). Moderate plaxticity, soft, yellowish brown with gray mottling, damp.			
	115						Gravelly Clay (CL). Fine to coarse gravelly clay, low plasticity, stiff, gray brown, wet. 0.5' recovery.			
	120						No Recovery			
	125				0.1		Sand (SW). Fine to coarse sand, trace gravel, (15,70,10,5), round to subangular, loose. No Recovery			5' Sump with Endcap
	130									
	135						Clayey Silt (ML). Trace medium gravel, moderate plasticity, medium stiff, yellowish brown, wet.			Backfilled with Bentonite
					0.1		Clay (CL). Some silt, moderate to highly plastic, stiff, yellowish brown with gray mottling, wet.			
	140						Clayey Silt (ML). Moderate plasticity, medium stiff, yellowish brown, wet.			
					0.1		Clay (CL). Some silt, moderate to highly plastic, stiff (3.0 p.p.), yellowish brown with gray mottling, moist.			
	145						1 foot recovery from above but stiffer			
							No Recovery			
	150									
	155						Silty Clay (CL). Moderate- highly plastic, very stiff (4.0 p.p.), yellowish brown, damp.			
					0.1		Clayey Silt (ML). Moderate plasticity, soft, yellowish brown, damp.			
	160						Silty Clay (CL). Moderate - highly plastic, very stiff (4.0 p.p.), yellowish brown, damp.			Total Depth = 160' bgs
	165									

SP

SW ?

DRAFT

Report: EN... Project File: G:\GINT\PROJECTS\FRONTIER.GPJ; Data Template:WC_CORP1.GDT Printed: 12/17/01

APPENDIX B

Soil Particle Size Analysis

Soils Analysis

PARTICLE SIZE ANALYSIS
ASTM D-422

Proj. Desc.:	Frontier Fertilizer	Sample I.D.:	D7248-1
Proj. Number:	152293.RJ.04	Client Sample I.D.:	SB1-1
Attention:	Brian Schroth	Date Analyzed:	04/25/02
		Sample Desc:	SOIL

INITIAL SAMPLE MASS	Units			HYGROSCOPIC MOISTURE CONTENT	Units	
Mass Dry Sample	g	50.00		Can No.	--	[ ]
Moisture Cont	%	0.00		Gross Wet Mass	g	50.00
Corr. Dry Mass	g	50.00	(M)	Gross Dry Mass	g	50.00
Pass #10 sieve	%	100.00	(B)	Moisture Mass	g	0.00
Mass of total sample represented				Tare Mass	g	0.00
by mass used in hydrometer test				Dry Soil Mass	g	50.00
W = (M/B) x 100 =		50.00 g		Moisture Content	%	0.00

Hydrometer No.: 87026 Type: 152H
Dispersing Agent: Sodium Hexametaphosphate
Amount Used: 50 ml

Specific Gravity: 2.68

Material Retained On 75 um Sieve After Washing

STD Sieve #	Gross Mass	Tare Mass	Net Mass Indiv.	Retained Accumulative	Percent Retained Individual	Percent Retained Accumulative	STD Sieve	Accum. Percent Passing
20#	414.72	414.05	0.7	--	1.3	1.3	0.850mm	98.7
40#	395.05	394.44	0.6	1.3	1.2	2.6	0.425mm	97.4
80#	339.25	337.00	2.3	3.5	4.5	7.1	0.180mm	92.9
100#	358.91	357.44	1.5	5.0	2.9	10.0	0.150mm	90.0
200#	315.52	308.88	6.6	11.6	13.3	23.3	0.075mm	76.7
<200#	366.85	366.73	0.1	11.8	0.2	23.5	<0.075mm	76.5

Reading Time Day	Hr	Min	Elapsed Time (min)	Hydrom Reading	Temp °C	Corr. Hydrom Reading	Particle Diam. (mm)	Pct Soil Susp.
24	7	0	0	--	23.9	--	--	--
24	7	1	0.67	44.0	23.9	39.7	0.0476	79.0
24	7	31	30	28.5	23.9	24.2	0.0080	48.2
24	8	1	60	26.5	23.9	22.2	0.0058	44.2
24	11	1	240	23.0	23.9	18.7	0.0030	37.2
24	3	1	480	21.5	23.9	17.2	0.0021	34.2
25	7	1	1440	19.5	23.8	15.1	0.0012	30.1

Approved By: Ricky Jensen
Ricky Jensen
Resource Chemist

Date: 4/28/02

Soils Analysis

PARTICLE SIZE ANALYSIS
ASTM D-422

Proj. Desc.:	Frontier Fertilizer	Sample I.D.:	D7248-2
Proj. Number:	152293.RJ.04	Client Sample I.D.:	SB1-2
Attention:	Brian Schroth	Date Analyzed:	04/25/02
		Sample Desc:	SOIL

INITIAL SAMPLE MASS	Units			HYGROSCOPIC MOISTURE CONTENT	Units	
Mass Dry Sample	g	50.00		Can No.	--	[ ]
Moisture Cont	%	0.00		Gross Wet Mass	g	50.00
Corr. Dry Mass	g	50.00	(M)	Gross Dry Mass	g	50.00
Pass #10 sieve	%	100.00	(B)	Moisture Mass	g	0.00
Mass of total sample represented				Tare Mass	g	0.00
by mass used in hydrometer test				Dry Soil Mass	g	50.00
W = (M/B) x 100 =		50.00 g		Moisture Content	%	0.00

Hydrometer No.: 87026 Type: 152H
Dispersing Agent: Sodium Hexametaphosphate
Amount Used: 50 ml

Specific Gravity: 2.71

Material Retained On 75 um Sieve After Washing

STD Sieve #	Gross Mass	Tare Mass	Net Mass Indiv.	Retained Accumulative	Percent Retained Individual	Percent Retained Accumulative	STD Sieve	Accum. Percent Passing
20#	414.01	414.01	0.0	--	0.0	0.0	0.850mm	100.0
40#	394.45	394.42	0.0	0.0	0.1	0.1	0.425mm	99.9
80#	337.33	336.96	0.4	0.4	0.7	0.8	0.180mm	99.2
100#	357.65	357.36	0.3	0.7	0.6	1.4	0.150mm	98.6
200#	312.92	308.87	4.1	4.7	8.1	9.5	0.075mm	90.5
<200#	367.21	366.65	0.6	5.3	1.1	10.6	<0.075mm	89.4

Reading Time Day	Hr	Min	Elapsed Time (min)	Hydrom Reading	Temp °C	Corr. Hydrom Reading	Particle Diam. (mm)	Pct Soil Susp.
24	7	2	0	--	23.9	--	--	--
24	7	3	0.67	49.0	23.9	44.7	0.0450	88.4
24	7	33	30	30.5	23.9	26.2	0.0079	51.8
24	8	3	60	28.0	23.9	23.7	0.0057	46.9
24	11	3	240	24.5	23.9	20.2	0.0029	40.0
24	3	3	480	23.5	23.9	19.2	0.0021	38.0
25	7	3	1440	22.0	23.8	17.6	0.0012	34.8

Approved By: Ricky Jensen
Ricky Jensen
Resource Chemist

Date: 4/28/02

Soils Analysis

PARTICLE SIZE ANALYSIS
ASTM D-422

Proj. Desc.:	Frontier Fertilizer	Sample I.D.:	D7248-3
Proj. Number:	152293.RJ.04	Client Sample I.D.:	SB1-3
Attention:	Brian Schroth	Date Analyzed:	04/25/02
		Sample Desc:	SOIL

INITIAL SAMPLE MASS	Units			HYGROSCOPIC MOISTURE CONTENT	Units	
Mass Dry Sample	g	50.00		Can No.	--	[ ]
Moisture Cont	%	0.00		Gross Wet Mass	g	50.00
Corr. Dry Mass	g	50.00	(M)	Gross Dry Mass	g	50.00
Pass #10 sieve	%	100.00	(B)	Moisture Mass	g	0.00
Mass of total sample represented				Tare Mass	g	0.00
by mass used in hydrometer test				Dry Soil Mass	g	50.00
W = (M/B) x 100 =		50.00 g		Moisture Content	%	0.00

Hydrometer No.: 87026 Type: 152H
Dispersing Agent: Sodium Hexametaphosphate
Amount Used: 50 ml

Specific Gravity: 2.70

Material Retained On 75 um Sieve After Washing

STD Sieve #	Gross Mass	Tare Mass	Net Mass Indiv.	Retained Accumulative	Percent Retained Individual	Percent Retained Accumulative	STD Sieve	Accum. Percent Passing
20#	428.08	428.07	0.0	--	0.0	0.0	0.850mm	100.0
40#	394.91	394.76	0.2	0.2	0.3	0.3	0.425mm	99.7
80#	367.41	352.99	14.4	14.6	28.8	29.2	0.180mm	70.8
100#	372.03	366.65	5.4	20.0	10.8	39.9	0.150mm	60.1
200#	372.48	366.00	6.5	26.4	13.0	52.9	0.075mm	47.1
<200#	367.47	367.46	0.0	26.5	0.0	52.9	<0.075mm	47.1

Reading Time Day	Hr	Min	Elapsed Time (min)	Hydrom Reading	Temp °C	Corr. Hydrom Reading	Particle Diam. (mm)	Pct Soil Susp.
24	7	3	0	--	23.9	--	--	--
24	7	4	0.67	32.0	23.9	27.7	0.0521	54.9
24	7	34	30	27.0	23.9	22.7	0.0081	45.0
24	8	4	60	25.5	23.9	21.2	0.0058	42.0
24	11	4	240	22.5	23.9	18.2	0.0029	36.1
24	3	4	480	21.5	23.9	17.2	0.0021	34.1
25	7	4	1440	19.0	23.8	14.6	0.0012	28.9

Approved By: Ricky Jensen
Ricky Jensen
Resource Chemist

Date: 4/28/02

Soils Analysis

PARTICLE SIZE ANALYSIS
ASTM D-422

Proj. Desc.:	Frontier Fertilizer	Sample I.D.:	D7248-4
Proj. Number:	152293.RJ.04	Client Sample I.D.:	SB1-4
Attention:	Brian Schroth	Date Analyzed:	04/25/02
		Sample Desc:	SOIL

INITIAL SAMPLE MASS	Units			HYGROSCOPIC MOISTURE CONTENT	Units	
Mass Dry Sample	g	50.00		Can No.	--	[ ]
Moisture Cont	%	0.00		Gross Wet Mass	g	50.00
Corr. Dry Mass	g	50.00	(M)	Gross Dry Mass	g	50.00
Pass #10 sieve	%	100.00	(B)	Moisture Mass	g	0.00
Mass of total sample represented				Tare Mass	g	0.00
by mass used in hydrometer test				Dry Soil Mass	g	50.00
W = (M/B) x 100 =		50.00 g		Moisture Content	%	0.00

Hydrometer No.: 87026 Type: 152H
Dispersing Agent: Sodium Hexametaphosphate
Amount Used: 50 ml

Specific Gravity: 2.71

Material Retained On 75 um Sieve After Washing

STD Sieve #	Gross Mass	Tare Mass	Net Mass Indiv.	Retained Accumulative	Percent Retained Individual	Percent Retained Accumulative	STD Sieve	Accum. Percent Passing
20#	414.02	414.02	0.0	--	0.0	0.0	0.850mm	100.0
40#	394.52	394.39	0.1	0.1	0.3	0.3	0.425mm	99.7
80#	349.76	336.98	12.8	12.9	25.6	25.8	0.180mm	74.2
100#	362.31	357.35	5.0	17.9	9.9	35.7	0.150mm	64.3
200#	318.87	308.84	10.0	27.9	20.1	55.8	0.075mm	44.2
<200#	366.79	366.62	0.2	28.1	0.3	56.1	<0.075mm	43.9

Reading Time Day	Hr	Min	Elapsed Time (min)	Hydrom Reading	Temp °C	Corr. Hydrom Reading	Particle Diam. (mm)	Pct Soil Susp.
24	7	4	0	--	23.9	--	--	--
24	7	5	0.67	29.5	23.9	25.2	0.0529	49.8
24	7	35	30	22.5	23.9	18.2	0.0083	36.0
24	8	5	60	21.5	23.9	17.2	0.0059	34.0
24	11	5	240	19.5	23.9	15.2	0.0030	30.1
24	3	5	480	18.5	23.9	14.2	0.0021	28.1
25	7	5	1440	17.5	23.8	13.1	0.0012	25.9

Approved By: Ricky Jensen
Ricky Jensen
Resource Chemist

Date: 4/28/02

Soils Analysis

PARTICLE SIZE ANALYSIS
ASTM D-422

Proj. Desc.:	Frontier Fertilizer	Sample I.D.:	D7248-5
Proj. Number:	152293.RJ.04	Client Sample I.D.:	SB1-5
Attention:	Brian Schroth	Date Analyzed:	04/25/02
		Sample Desc:	SOIL

INITIAL SAMPLE MASS	Units			HYGROSCOPIC MOISTURE CONTENT	Units	
Mass Dry Sample	g	50.00		Can No.	--	[ ]
Moisture Cont	%	0.00		Gross Wet Mass	g	50.00
Corr. Dry Mass	g	50.00	(M)	Gross Dry Mass	g	50.00
Pass #10 sieve	%	100.00	(B)	Moisture Mass	g	0.00
Mass of total sample represented				Tare Mass	g	0.00
by mass used in hydrometer test				Dry Soil Mass	g	50.00
W = (M/B) x 100 =		50.00 g		Moisture Content	%	0.00

Hydrometer No.: 87026 Type: 152H
Dispersing Agent: Sodium Hexametaphosphate
Amount Used: 50 ml

Specific Gravity: 2.68

Material Retained On 75 um Sieve After Washing

STD Sieve #	Gross Mass	Tare Mass	Net Mass Indiv.	Retained Accumulative	Percent Retained Individual	Percent Retained Accumulative	STD Sieve	Accum. Percent Passing
20#	428.46	428.05	0.4	--	0.8	0.8	0.850mm	99.2
40#	395.13	394.76	0.4	0.8	0.7	1.6	0.425mm	98.4
80#	353.43	352.94	0.5	1.3	1.0	2.5	0.180mm	97.5
100#	366.93	366.64	0.3	1.6	0.6	3.1	0.150mm	96.9
200#	369.32	366.02	3.3	4.9	6.6	9.7	0.075mm	90.3
<200#	367.96	367.47	0.5	5.3	1.0	10.7	<0.075mm	89.3

Reading Time Day	Hr	Min	Elapsed Time (min)	Hydrom Reading	Temp °C	Corr. Hydrom Reading	Particle Diam. (mm)	Pct Soil Susp.
24	7	5	0	--	23.9	--	--	--
24	7	6	0.67	49.0	23.9	44.7	0.0454	89.0
24	7	35	30	25.5	23.9	21.2	0.0082	42.2
24	8	6	60	23.5	23.9	19.2	0.0059	38.2
24	11	6	240	20.0	23.9	15.7	0.0030	31.3
24	3	6	480	18.5	23.9	14.2	0.0021	28.3
25	7	6	1440	15.0	23.8	10.6	0.0013	21.1

Approved By: Ricky Jensen
Ricky Jensen
Resource Chemist

Date: 4/28/02

Soils Analysis

PARTICLE SIZE ANALYSIS
ASTM D-422

Proj. Desc.:	Frontier Fertilizer	Sample I.D.:	D7248-6
Proj. Number:	152293.RJ.04	Client Sample I.D.:	SB1-6
Attention:	Brian Schroth	Date Analyzed:	04/25/02
		Sample Desc:	SOIL

INITIAL SAMPLE MASS	Units			HYGROSCOPIC MOISTURE CONTENT	Units	
Mass Dry Sample	g	50.00		Can No.	--	[ ]
Moisture Cont	%	0.00		Gross Wet Mass	g	50.00
Corr. Dry Mass	g	50.00	(M)	Gross Dry Mass	g	50.00
Pass #10 sieve	%	100.00	(B)	Moisture Mass	g	0.00
Mass of total sample represented				Tare Mass	g	0.00
by mass used in hydrometer test				Dry Soil Mass	g	50.00
W = (M/B) x 100 =		50.00 g		Moisture Content	%	0.00

Hydrometer No.: 87026 Type: 152H
Dispersing Agent: Sodium Hexametaphosphate
Amount Used: 50 ml

Specific Gravity: 2.68

Material Retained On 75 um Sieve After Washing

STD Sieve #	Gross Mass	Tare Mass	Net Mass Indiv.	Retained Accumulative	Percent Retained Individual	Percent Retained Accumulative	STD Sieve	Accum. Percent Passing
20#	414.07	414.00	0.1	--	0.1	0.1	0.850mm	99.9
40#	394.50	394.41	0.1	0.2	0.2	0.3	0.425mm	99.7
80#	339.43	336.96	2.5	2.6	4.9	5.3	0.180mm	94.7
100#	359.63	357.38	2.3	4.9	4.5	9.8	0.150mm	90.2
200#	319.37	308.86	10.5	15.4	21.0	30.8	0.075mm	69.2
<200#	367.37	366.63	0.7	16.1	1.5	32.3	<0.075mm	67.7

Reading Time Day	Hr	Min	Elapsed Time (min)	Hydrom Reading	Temp °C	Corr. Hydrom Reading	Particle Diam. (mm)	Pct Soil Susp.
24	7	6	0	--	23.9	--	--	--
24	7	7	0.67	39.5	23.9	35.2	0.0495	70.1
24	7	37	30	28.0	23.9	23.7	0.0081	47.2
24	8	7	60	26.0	23.9	21.7	0.0058	43.2
24	11	7	240	23.0	23.9	18.7	0.0030	37.2
24	3	7	480	22.5	23.9	18.2	0.0021	36.2
25	7	7	1440	20.0	23.8	15.6	0.0012	31.1

Approved By: Ricky Jensen
Ricky Jensen
Resource Chemist

Date: 4/29/02

Soils Analysis

PARTICLE SIZE ANALYSIS
ASTM D-422

Proj. Desc.:	Frontier Fertilizer	Sample I.D.:	D7248-7
Proj. Number:	152293.RJ.04	Client Sample I.D.:	SB1-7
Attention:	Brian Schroth	Date Analyzed:	04/25/02
		Sample Desc:	SOIL

INITIAL SAMPLE MASS	Units			HYGROSCOPIC MOISTURE CONTENT	Units	
Mass Dry Sample	g	50.00		Can No.	--	[ ]
Moisture Cont	%	0.00		Gross Wet Mass	g	50.00
Corr. Dry Mass	g	50.00	(M)	Gross Dry Mass	g	50.00
Pass #10 sieve	%	100.00	(B)	Moisture Mass	g	0.00
Mass of total sample represented				Tare Mass	g	0.00
by mass used in hydrometer test				Dry Soil Mass	g	50.00
W = (M/B) x 100 =		50.00 g		Moisture Content	%	0.00

Hydrometer No.: 87026 Type: 152H
Dispersing Agent: Sodium Hexametaphosphate
Amount Used: 50 ml

Specific Gravity: 2.67

Material Retained On 75 um Sieve After Washing

STD Sieve #	Gross Mass	Tare Mass	Net Mass Indiv.	Retained Accumulative	Percent Retained Individual	Percent Retained Accumulative	STD Sieve	Accum. Percent Passing
20#	428.09	428.09	0.0	--	0.0	0.0	0.850mm	100.0
40#	394.76	394.76	0.0	0.0	0.0	0.0	0.425mm	100.0
80#	353.01	352.94	0.1	0.1	0.1	0.1	0.180mm	99.9
100#	366.67	366.64	0.0	0.1	0.1	0.2	0.150mm	99.8
200#	366.05	366.00	0.1	0.2	0.1	0.3	0.075mm	99.7
<200#	367.47	367.47	0.0	0.2	0.0	0.3	<0.075mm	99.7

Reading Time Day	Hr	Min	Elapsed Time (min)	Hydrom Reading	Temp °C	Corr. Hydrom Reading	Particle Diam. (mm)	Pct Soil Susp.
24	7	7	0	--	23.9	--	--	--
24	7	8	0.67	58.5	23.9	54.2	0.0410	108.1
24	7	38	30	44.5	23.9	40.2	0.0071	80.2
24	8	8	60	35.0	23.9	30.7	0.0054	61.2
24	11	8	240	31.0	23.9	26.7	0.0028	53.3
24	3	8	480	27.0	23.9	22.7	0.0020	45.3
25	7	8	1440	15.0	23.8	10.6	0.0013	21.1

Approved By: Ricky Jensen
Ricky Jensen
Resource Chemist

Date: 4/28/02

Soils Analysis

PARTICLE SIZE ANALYSIS
ASTM D-422

Proj. Desc.:	Frontier Fertilizer	Sample I.D.:	D7248-8
Proj. Number:	152293.RJ.04	Client Sample I.D.:	SB1-8
Attention:	Brian Schroth	Date Analyzed:	04/25/02
		Sample Desc:	SOIL

INITIAL SAMPLE MASS	Units			HYGROSCOPIC MOISTURE CONTENT	Units	
Mass Dry Sample	g	50.00		Can No.	--	[ ]
Moisture Cont	%	0.00		Gross Wet Mass	g	50.00
Corr. Dry Mass	g	50.00	(M)	Gross Dry Mass	g	50.00
Pass #10 sieve	%	100.00	(B)	Moisture Mass	g	0.00
Mass of total sample represented				Tare Mass	g	0.00
by mass used in hydrometer test				Dry Soil Mass	g	50.00
W = (M/B) x 100 =		50.00 g		Moisture Content	%	0.00

Hydrometer No.: 87026 Type: 152H
Dispersing Agent: Sodium Hexametaphosphate
Amount Used: 50 ml

Specific Gravity: 2.69

Material Retained On 75 um Sieve After Washing

STD Sieve #	Gross Mass	Tare Mass	Net Mass Indiv.	Retained Accumulative	Percent Retained Individual	Percent Retained Accumulative	STD Sieve	Accum. Percent Passing
20#	421.17	413.98	7.2	--	14.4	14.4	0.850mm	85.6
40#	402.92	394.39	8.5	15.7	17.1	31.4	0.425mm	68.6
80#	348.84	336.96	11.9	27.6	23.8	55.2	0.180mm	44.8
100#	359.32	357.34	2.0	29.6	4.0	59.2	0.150mm	40.8
200#	317.18	308.85	8.3	37.9	16.7	75.8	0.075mm	24.2
<200#	366.74	366.62	0.1	38.0	0.2	76.1	<0.075mm	23.9

Reading Time Day	Hr	Min	Elapsed Time (min)	Hydrom Reading	Temp °C	Corr. Hydrom Reading	Particle Diam. (mm)	Pct Soil Susp.
24	7	8	0	--	23.9	--	--	--
24	7	9	0.67	19.0	23.9	14.7	0.0571	29.2
24	7	39	30	15.0	23.9	10.7	0.0087	21.3
24	8	9	60	14.5	23.9	10.2	0.0062	20.3
24	11	9	240	13.5	23.9	9.2	0.0031	18.3
24	3	9	480	13.5	23.9	9.2	0.0022	18.3
25	7	9	1440	13.0	23.8	8.6	0.0013	17.1

Approved By: Ricky Jensen
Ricky Jensen
Resource Chemist

Date: 4/28/02

Soils Analysis

PARTICLE SIZE ANALYSIS
ASTM D-422

Proj. Desc.:	Frontier Fertilizer	Sample I.D.:	D7248-9
Proj. Number:	152293.RJ.04	Client Sample I.D.:	SB1-9
Attention:	Brian Schroth	Date Analyzed:	04/25/02
		Sample Desc:	SOIL

INITIAL SAMPLE MASS	Units			HYGROSCOPIC MOISTURE CONTENT	Units	
Mass Dry Sample	g	50.00		Can No.	--	[ ]
Moisture Cont	%	0.00		Gross Wet Mass	g	50.00
Corr. Dry Mass	g	50.00	(M)	Gross Dry Mass	g	50.00
Pass #10 sieve	%	100.00	(B)	Moisture Mass	g	0.00
Mass of total sample represented				Tare Mass	g	0.00
by mass used in hydrometer test				Dry Soil Mass	g	50.00
W = (M/B) x 100 =		50.00 g		Moisture Content	%	0.00

Hydrometer No.: 87026 Type: 152H
Dispersing Agent: Sodium Hexametaphosphate
Amount Used: 50 ml

Specific Gravity: 2.71

Material Retained On 75 um Sieve After Washing

STD Sieve #	Gross Mass	Tare Mass	Net Mass Indiv.	Retained Accumulative	Percent Retained Individual	Percent Retained Accumulative	STD Sieve	Accum. Percent Passing
20#	444.76	428.03	16.7	--	33.5	33.5	0.850mm	66.5
40#	404.64	394.75	9.9	26.6	19.8	53.2	0.425mm	46.8
80#	361.55	352.93	8.6	35.2	17.2	70.5	0.180mm	29.5
100#	367.96	366.64	1.3	36.6	2.6	73.1	0.150mm	26.9
200#	369.25	366.02	3.2	39.8	6.5	79.6	0.075mm	20.4
<200#	367.56	367.47	0.1	39.9	0.2	79.8	<0.075mm	20.2

Reading Time Day	Hr	Min	Elapsed Time (min)	Hydrom Reading	Temp °C	Corr. Hydrom Reading	Particle Diam. (mm)	Pct Soil Susp.
24	7	9	0	--	23.9	--	--	--
24	7	10	0.67	18.0	23.9	13.7	0.0571	27.1
24	7	40	30	15.0	23.9	10.7	0.0087	21.2
24	8	10	60	14.0	23.9	9.7	0.0062	19.2
24	11	10	240	13.0	23.9	8.7	0.0031	17.2
24	3	10	480	13.0	23.9	8.7	0.0022	17.2
25	7	10	1440	12.5	23.8	8.1	0.0013	16.0

Approved By: Ricky Jensen
Ricky Jensen
Resource Chemist

Date: 4/28/02

Soils Analysis

PARTICLE SIZE ANALYSIS
ASTM D-422

Proj. Desc.:	Frontier Fertilizer	Sample I.D.:	D7248-10
Proj. Number:	152293.RJ.04	Client Sample I.D.:	SB1-10
Attention:	Brian Schroth	Date Analyzed:	04/25/02
		Sample Desc:	SOIL

INITIAL SAMPLE MASS	Units			HYGROSCOPIC MOISTURE CONTENT	Units	
Mass Dry Sample	g	50.00		Can No.	--	[ ]
Moisture Cont	%	0.00		Gross Wet Mass	g	50.00
Corr. Dry Mass	g	50.00	(M)	Gross Dry Mass	g	50.00
Pass #10 sieve	%	100.00	(B)	Moisture Mass	g	0.00
Mass of total sample represented				Tare Mass	g	0.00
by mass used in hydrometer test				Dry Soil Mass	g	50.00
W = (M/B) x 100 =		50.00 g		Moisture Content	%	0.00

Hydrometer No.: 87026 Type: 152H
Dispersing Agent: Sodium Hexametaphosphate
Amount Used: 50 ml

Specific Gravity: 2.70

Material Retained On 75 um Sieve After Washing

STD Sieve #	Gross Mass	Tare Mass	Net Mass Indiv.	Retained Accumulative	Percent Retained Individual	Percent Retained Accumulative	STD Sieve	Accum. Percent Passing
20#	414.04	414.01	0.0	--	0.1	0.1	0.850mm	99.9
40#	394.39	394.39	0.0	0.0	0.0	0.1	0.425mm	99.9
80#	337.01	336.94	0.1	0.1	0.1	0.2	0.180mm	99.8
100#	357.37	357.33	0.0	0.1	0.1	0.3	0.150mm	99.7
200#	309.41	308.84	0.6	0.7	1.1	1.4	0.075mm	98.6
<200#	366.70	366.62	0.1	0.8	0.2	1.6	<0.075mm	98.4

Reading Time Day	Hr	Min	Elapsed Time (min)	Hydrom Reading	Temp °C	Corr. Hydrom Reading	Particle Diam. (mm)	Pct Soil Susp.
24	7	10	0	--	23.9	--	--	--
24	7	11	0.67	56.0	23.9	51.7	0.0419	102.5
24	7	41	30	41.5	23.9	37.2	0.0072	73.7
24	8	11	60	37.5	23.9	33.2	0.0053	65.8
24	11	11	240	30.5	23.9	26.2	0.0028	51.9
24	3	11	480	26.5	23.9	22.2	0.0020	44.0
25	7	11	1440	15.0	23.8	10.6	0.0013	21.0

Approved By: Ricky Jensen
Ricky Jensen
Resource Chemist

Date: 4/28/02

Soils Analysis

PARTICLE SIZE ANALYSIS
ASTM D-422

Proj. Desc.:	Frontier Fertilizer	Sample I.D.:	D7309-11
Proj. Number:	152293.RJ.04	Client Sample I.D.:	SB2-1
Attention:	Brian Schroth	Date Analyzed:	05/07/02
		Sample Desc:	SOIL

INITIAL SAMPLE MASS	Units			HYGROSCOPIC MOISTURE CONTENT	Units	
Mass Dry Sample	g	50.00		Can No.	--	[ ]
Moisture Cont	%	0.00		Gross Wet Mass	g	50.00
Corr. Dry Mass	g	50.00	(M)	Gross Dry Mass	g	50.00
Pass #10 sieve	%	100.00	(B)	Moisture Mass	g	0.00
Mass of total sample represented				Tare Mass	g	0.00
by mass used in hydrometer test				Dry Soil Mass	g	50.00
W = (M/B) x 100 =		50.00 g		Moisture Content	%	0.00

Hydrometer No.: 87026 Type: 152H
Dispersing Agent: Sodium Hexametaphosphate
Amount Used: 50 ml

Specific Gravity: 2.67

Material Retained On 75 um Sieve After Washing

STD Sieve #	Gross Mass	Tare Mass	Net Mass Indiv.	Retained Accumulative	Percent Retained Individual	Percent Retained Accumulative	STD Sieve	Accum. Percent Passing
20#	414.32	414.00	0.3	--	0.6	0.6	0.850mm	99.4
40#	395.36	394.36	1.0	1.3	2.0	2.6	0.425mm	97.4
80#	352.46	336.98	15.5	16.8	31.0	33.6	0.180mm	66.4
100#	361.59	357.39	4.2	21.0	8.4	42.0	0.150mm	58.0
200#	319.69	308.89	10.8	31.8	21.6	63.6	0.075mm	36.4
<200#	367.16	366.65	0.5	32.3	1.0	64.6	<0.075mm	35.4

Reading Time Day	Hr	Min	Elapsed Time (min)	Hydrom Reading	Temp °C	Corr. Hydrom Reading	Particle Diam. (mm)	Pct Soil Susp.
2	7	10	0	--	23.4	--	--	--
2	7	11	0.67	24.0	23.4	19.5	0.0560	38.9
2	7	41	30	16.5	23.4	12.0	0.0088	23.9
2	8	11	60	15.5	23.4	11.0	0.0062	21.9
2	11	11	240	14.0	23.4	9.5	0.0031	19.0
2	3	11	480	13.0	23.5	8.5	0.0022	17.0
3	7	11	1440	12.5	23.4	8.0	0.0013	16.0

Approved By: Ricky Jensen
Ricky Jensen
Resource Chemist

Date: 5/10/02

Soils Analysis

PARTICLE SIZE ANALYSIS
ASTM D-422

Proj. Desc.:	Frontier Fertilizer	Sample I.D.:	D7309-12
Proj. Number:	152293.RJ.04	Client Sample I.D.:	SB2-2
Attention:	Brian Schroth	Date Analyzed:	05/07/02
		Sample Desc:	SOIL

INITIAL SAMPLE MASS	Units			HYGROSCOPIC MOISTURE CONTENT	Units	
Mass Dry Sample	g	50.00		Can No.	--	[ ]
Moisture Cont	%	0.00		Gross Wet Mass	g	50.00
Corr. Dry Mass	g	50.00	(M)	Gross Dry Mass	g	50.00
Pass #10 sieve	%	100.00	(B)	Moisture Mass	g	0.00
Mass of total sample represented				Tare Mass	g	0.00
by mass used in hydrometer test				Dry Soil Mass	g	50.00
W = (M/B) x 100 =		50.00 g		Moisture Content	%	0.00

Hydrometer No.: 87026 Type: 152H
Dispersing Agent: Sodium Hexametaphosphate
Amount Used: 50 ml

Specific Gravity: 2.68

Material Retained On 75 um Sieve After Washing

STD Sieve #	Gross Mass	Tare Mass	Net Mass Indiv.	Retained Accumulative	Percent Retained Individual	Percent Retained Accumulative	STD Sieve	Accum. Percent Passing
20#	428.81	428.02	0.8	--	1.6	1.6	0.850mm	98.4
40#	395.52	394.72	0.8	1.6	1.6	3.2	0.425mm	96.8
80#	354.03	352.91	1.1	2.7	2.2	5.4	0.180mm	94.6
100#	367.11	366.65	0.5	3.2	0.9	6.3	0.150mm	93.7
200#	367.71	366.00	1.7	4.9	3.4	9.8	0.075mm	90.2
<200#	367.47	367.45	0.0	4.9	0.0	9.8	<0.075mm	90.2

Reading Time Day	Hr	Min	Elapsed Time (min)	Hydrom Reading	Temp °C	Corr. Hydrom Reading	Particle Diam. (mm)	Pct Soil Susp.
2	7	11	0	--	23.4	--	--	--
2	7	12	0.67	52.5	23.4	48.0	0.0441	95.6
2	7	42	30	38.5	23.4	34.0	0.0075	67.7
2	8	12	60	34.0	23.4	29.5	0.0055	58.7
2	11	12	240	27.0	23.4	22.5	0.0029	44.8
2	3	12	480	24.0	23.5	19.5	0.0021	38.8
3	7	12	1440	19.5	23.4	15.0	0.0012	29.9

Approved By: Ricky Jensen
Ricky Jensen
Resource Chemist

Date: 5/10/02

Soils Analysis

PARTICLE SIZE ANALYSIS
ASTM D-422

Proj. Desc.:	Frontier Fertilizer	Sample I.D.:	D7309-13
Proj. Number:	152293.RJ.04	Client Sample I.D.:	SB2-3
Attention:	Brian Schroth	Date Analyzed:	05/07/02
		Sample Desc:	SOIL

INITIAL SAMPLE MASS	Units			HYGROSCOPIC MOISTURE CONTENT	Units	
Mass Dry Sample	g	50.00		Can No.	--	[ ]
Moisture Cont	%	0.00		Gross Wet Mass	g	50.00
Corr. Dry Mass	g	50.00	(M)	Gross Dry Mass	g	50.00
Pass #10 sieve	%	100.00	(B)	Moisture Mass	g	0.00
Mass of total sample represented				Tare Mass	g	0.00
by mass used in hydrometer test				Dry Soil Mass	g	50.00
W = (M/B) x 100 =		50.00 g		Moisture Content	%	0.00

Hydrometer No.: 87026 Type: 152H
Dispersing Agent: Sodium Hexametaphosphate
Amount Used: 50 ml

Specific Gravity: 2.67

Material Retained On 75 um Sieve After Washing

STD Sieve #	Gross Mass	Tare Mass	Net Mass Indiv.	Retained Accumulative	Percent Retained Individual	Percent Retained Accumulative	STD Sieve	Accum. Percent Passing
20#	413.96	413.96	0.0	--	0.0	0.0	0.850mm	100.0
40#	394.37	394.35	0.0	0.0	0.0	0.0	0.425mm	100.0
80#	338.06	336.97	1.1	1.1	2.2	2.2	0.180mm	97.8
100#	359.10	357.32	1.8	2.9	3.6	5.8	0.150mm	94.2
200#	317.44	308.81	8.6	11.5	17.3	23.0	0.075mm	77.0
<200#	367.32	366.57	0.8	12.3	1.5	24.5	<0.075mm	75.5

Reading Time Day	Hr	Min	Elapsed Time (min)	Hydrom Reading	Temp °C	Corr. Hydrom Reading	Particle Diam. (mm)	Pct Soil Susp.
2	7	12	0	--	23.4	--	--	--
2	7	13	0.67	42.0	23.4	37.5	0.0489	74.8
2	7	43	30	21.0	23.4	16.5	0.0085	32.9
2	8	13	60	18.5	23.4	14.0	0.0061	27.9
2	11	13	240	16.5	23.4	12.0	0.0031	23.9
2	3	13	480	15.0	23.5	10.5	0.0022	20.9
3	7	13	1440	14.0	23.4	9.5	0.0013	19.0

Approved By: Ricky Jensen
Ricky Jensen
Resource Chemist

Date: 5/10/02

Soils Analysis

PARTICLE SIZE ANALYSIS
ASTM D-422

Proj. Desc.:	Frontier Fertilizer	Sample I.D.:	D7309-14
Proj. Number:	152293.RJ.04	Client Sample I.D.:	SB2-4
Attention:	Brian Schroth	Date Analyzed:	05/07/02
		Sample Desc:	SOIL

INITIAL SAMPLE MASS	Units			HYGROSCOPIC MOISTURE CONTENT	Units	
Mass Dry Sample	g	50.00		Can No.	--	[ ]
Moisture Cont	%	0.00		Gross Wet Mass	g	50.00
Corr. Dry Mass	g	50.00	(M)	Gross Dry Mass	g	50.00
Pass #10 sieve	%	100.00	(B)	Moisture Mass	g	0.00
Mass of total sample represented				Tare Mass	g	0.00
by mass used in hydrometer test				Dry Soil Mass	g	50.00
W = (M/B) x 100 =		50.00 g		Moisture Content	%	0.00

Hydrometer No.: 87026 Type: 152H
Dispersing Agent: Sodium Hexametaphosphate
Amount Used: 50 ml

Specific Gravity: 2.67

Material Retained On 75 um Sieve After Washing

STD Sieve #	Gross Mass	Tare Mass	Net Mass Indiv.	Retained Accumulative	Percent Retained Individual	Percent Retained Accumulative	STD Sieve	Accum. Percent Passing
20#	428.05	428.03	0.0	--	0.0	0.0	0.850mm	100.0
40#	394.78	394.70	0.1	0.1	0.2	0.2	0.425mm	99.8
80#	360.96	352.93	8.0	8.1	16.1	16.3	0.180mm	83.7
100#	371.21	366.64	4.6	12.7	9.1	25.4	0.150mm	74.6
200#	381.21	365.98	15.2	27.9	30.5	55.9	0.075mm	44.1
<200#	368.28	367.46	0.8	28.7	1.6	57.5	<0.075mm	42.5

Reading Time Day	Hr	Min	Elapsed Time (min)	Hydrom Reading	Temp °C	Corr. Hydrom Reading	Particle Diam. (mm)	Pct Soil Susp.
2	7	13	0	--	23.4	--	--	--
2	7	14	0.67	27.5	23.4	23.0	0.0547	45.9
2	7	44	30	18.0	23.4	13.5	0.0087	26.9
2	8	14	60	17.0	23.4	12.5	0.0062	24.9
2	11	14	240	15.5	23.4	11.0	0.0031	21.9
2	3	14	480	14.0	23.5	9.5	0.0022	19.0
3	7	14	1440	13.5	23.4	9.0	0.0013	18.0

Approved By: Ricky Jensen
Ricky Jensen
Resource Chemist

Date: 5/10/02

Soils Analysis

PARTICLE SIZE ANALYSIS
ASTM D-422

Proj. Desc.:	Frontier Fertilizer	Sample I.D.:	D7309-15
Proj. Number:	152293.RJ.04	Client Sample I.D.:	SB2-5
Attention:	Brian Schroth	Date Analyzed:	05/07/02
		Sample Desc:	SOIL

INITIAL SAMPLE MASS	Units			HYGROSCOPIC MOISTURE CONTENT	Units	
Mass Dry Sample	g	50.00		Can No.	--	[ ]
Moisture Cont	%	0.00		Gross Wet Mass	g	50.00
Corr. Dry Mass	g	50.00	(M)	Gross Dry Mass	g	50.00
Pass #10 sieve	%	100.00	(B)	Moisture Mass	g	0.00
Mass of total sample represented				Tare Mass	g	0.00
by mass used in hydrometer test				Dry Soil Mass	g	50.00
W = (M/B) x 100 =		50.00 g		Moisture Content	%	0.00

Hydrometer No.: 87026 Type: 152H
Dispersing Agent: Sodium Hexametaphosphate
Amount Used: 50 ml

Specific Gravity: 2.67

Material Retained On 75 um Sieve After Washing

STD Sieve #	Gross Mass	Tare Mass	Net Mass Indiv.	Retained Accumulative	Percent Retained Individual	Percent Retained Accumulative	STD Sieve	Accum. Percent Passing
20#	414.04	413.97	0.1	--	0.1	0.1	0.850mm	99.9
40#	394.48	394.36	0.1	0.2	0.2	0.4	0.425mm	99.6
80#	343.05	336.99	6.1	6.3	12.1	12.5	0.180mm	87.5
100#	361.29	357.31	4.0	10.2	8.0	20.5	0.150mm	79.5
200#	325.66	308.84	16.8	27.1	33.6	54.1	0.075mm	45.9
<200#	367.41	366.67	0.7	27.8	1.5	55.6	<0.075mm	44.4

Reading Time Day	Hr	Min	Elapsed Time (min)	Hydrom Reading	Temp °C	Corr. Hydrom Reading	Particle Diam. (mm)	Pct Soil Susp.
2	7	14	0	--	23.4	--	--	--
2	7	15	0.67	28.0	23.4	23.5	0.0545	46.9
2	7	45	30	17.5	23.4	13.0	0.0087	25.9
2	8	15	60	17.0	23.4	12.5	0.0062	24.9
2	11	15	240	15.0	23.4	10.5	0.0031	20.9
2	3	15	480	14.0	23.5	9.5	0.0022	19.0
3	7	15	1440	13.5	23.4	9.0	0.0013	18.0

Approved By: Ricky Jensen
Ricky Jensen
Resource Chemist

Date: 5/10/02

Soils Analysis

PARTICLE SIZE ANALYSIS
ASTM D-422

Proj. Desc.:	Frontier Fertilizer	Sample I.D.:	D7309-16
Proj. Number:	152293.RJ.04	Client Sample I.D.:	SB2-6
Attention:	Brian Schroth	Date Analyzed:	05/07/02
		Sample Desc:	SOIL

INITIAL SAMPLE MASS	Units			HYGROSCOPIC MOISTURE CONTENT	Units	
Mass Dry Sample	g	50.00		Can No.	--	[ ]
Moisture Cont	%	0.00		Gross Wet Mass	g	50.00
Corr. Dry Mass	g	50.00	(M)	Gross Dry Mass	g	50.00
Pass #10 sieve	%	100.00	(B)	Moisture Mass	g	0.00
Mass of total sample represented				Tare Mass	g	0.00
by mass used in hydrometer test				Dry Soil Mass	g	50.00
W = (M/B) x 100 =		50.00 g		Moisture Content	%	0.00

Hydrometer No.: 87026 Type: 152H
Dispersing Agent: Sodium Hexametaphosphate
Amount Used: 50 ml

Specific Gravity: 2.66

Material Retained On 75 um Sieve After Washing

STD Sieve #	Gross Mass	Tare Mass	Net Mass Indiv.	Retained Accumulative	Percent Retained Individual	Percent Retained Accumulative	STD Sieve	Accum. Percent Passing
20#	428.07	428.07	0.0	--	0.0	0.0	0.850mm	100.0
40#	394.84	394.71	0.1	0.1	0.3	0.3	0.425mm	99.7
80#	368.66	352.91	15.8	15.9	31.5	31.8	0.180mm	68.2
100#	373.72	366.63	7.1	23.0	14.2	45.9	0.150mm	54.1
200#	380.19	365.97	14.2	37.2	28.4	74.4	0.075mm	25.6
<200#	367.65	367.45	0.2	37.4	0.4	74.8	<0.075mm	25.2

Reading Time Day	Hr	Min	Elapsed Time (min)	Hydrom Reading	Temp °C	Corr. Hydrom Reading	Particle Diam. (mm)	Pct Soil Susp.
2	7	15	0	--	23.4	--	--	--
2	7	16	0.67	18.5	23.4	14.0	0.0582	28.0
2	7	46	30	14.0	23.4	9.5	0.0089	19.0
2	8	16	60	13.0	23.4	8.5	0.0064	17.0
2	11	16	240	12.5	23.4	8.0	0.0032	16.0
2	3	16	480	12.0	23.5	7.5	0.0023	15.0
3	7	16	1440	11.0	23.4	6.5	0.0013	13.0

Approved By: Ricky Jensen
Ricky Jensen
Resource Chemist

Date: 5/10/02

Soils Analysis

PARTICLE SIZE ANALYSIS
ASTM D-422

Proj. Desc.:	Frontier Fertilizer	Sample I.D.:	D7309-17
Proj. Number:	152293.RJ.04	Client Sample I.D.:	SB2-7
Attention:	Brian Schroth	Date Analyzed:	05/07/02
		Sample Desc:	SOIL

INITIAL SAMPLE MASS	Units			HYGROSCOPIC MOISTURE CONTENT	Units	
Mass Dry Sample	g	50.00		Can No.	--	[ ]
Moisture Cont	%	0.00		Gross Wet Mass	g	50.00
Corr. Dry Mass	g	50.00	(M)	Gross Dry Mass	g	50.00
Pass #10 sieve	%	100.00	(B)	Moisture Mass	g	0.00
Mass of total sample represented				Tare Mass	g	0.00
by mass used in hydrometer test				Dry Soil Mass	g	50.00
W = (M/B) x 100 =		50.00 g		Moisture Content	%	0.00

Hydrometer No.: 87026 Type: 152H
Dispersing Agent: Sodium Hexametaphosphate
Amount Used: 50 ml

Specific Gravity: 2.66

Material Retained On 75 um Sieve After Washing

STD Sieve #	Gross Mass	Tare Mass	Net Mass Indiv.	Retained Accumulative	Percent Retained Individual	Percent Retained Accumulative	STD Sieve	Accum. Percent Passing
20#	414.29	413.95	0.3	--	0.7	0.7	0.850mm	99.3
40#	398.81	394.34	4.5	4.8	8.9	9.6	0.425mm	90.4
80#	367.37	336.99	30.4	35.2	60.8	70.4	0.180mm	29.6
100#	363.19	357.33	5.9	41.1	11.7	82.1	0.150mm	17.9
200#	313.84	308.81	5.0	46.1	10.1	92.2	0.075mm	7.8
<200#	366.63	366.60	0.0	46.1	0.1	92.2	<0.075mm	7.8

Reading Time Day	Hr	Min	Elapsed Time (min)	Hydrom Reading	Temp °C	Corr. Hydrom Reading	Particle Diam. (mm)	Pct Soil Susp.
2	7	16	0	--	23.4	--	--	--
2	7	17	0.67	12.5	23.4	8.0	0.0603	16.0
2	7	47	30	12.0	23.4	7.5	0.0090	15.0
2	8	17	60	11.5	23.4	7.0	0.0064	14.0
2	11	17	240	10.0	23.4	5.5	0.0032	11.0
2	3	17	480	10.0	23.5	5.5	0.0023	11.0
3	7	17	1440	10.0	23.4	5.5	0.0013	11.0

Approved By: Ricky Jensen
Ricky Jensen
Resource Chemist

Date: 5/10/02

Soils Analysis

PARTICLE SIZE ANALYSIS
ASTM D-422

Proj. Desc.:	Frontier Fertilizer	Sample I.D.:	D7309-18
Proj. Number:	152293.RJ.04	Client Sample I.D.:	SB2-8
Attention:	Brian Schroth	Date Analyzed:	05/07/02
		Sample Desc:	SOIL

INITIAL SAMPLE MASS	Units			HYGROSCOPIC MOISTURE CONTENT	Units	
Mass Dry Sample	g	50.00		Can No.	--	[ ]
Moisture Cont	%	0.00		Gross Wet Mass	g	50.00
Corr. Dry Mass	g	50.00	(M)	Gross Dry Mass	g	50.00
Pass #10 sieve	%	100.00	(B)	Moisture Mass	g	0.00
Mass of total sample represented				Tare Mass	g	0.00
by mass used in hydrometer test				Dry Soil Mass	g	50.00
W = (M/B) x 100 =		50.00 g		Moisture Content	%	0.00

Hydrometer No.: 87026 Type: 152H
Dispersing Agent: Sodium Hexametaphosphate
Amount Used: 50 ml

Specific Gravity: 2.60

Material Retained On 75 um Sieve After Washing

STD Sieve #	Gross Mass	Tare Mass	Net Mass Indiv.	Retained Accumulative	Percent Retained Individual	Percent Retained Accumulative	STD Sieve	Accum. Percent Passing
20#	428.09	428.06	0.0	--	0.1	0.1	0.850mm	99.9
40#	394.73	394.72	0.0	0.0	0.0	0.1	0.425mm	99.9
80#	353.04	352.92	0.1	0.2	0.2	0.3	0.180mm	99.7
100#	366.65	366.62	0.0	0.2	0.1	0.4	0.150mm	99.6
200#	366.13	365.95	0.2	0.4	0.4	0.7	0.075mm	99.3
<200#	367.43	367.43	0.0	0.4	0.0	0.7	<0.075mm	99.3

Reading Time Day	Hr	Min	Elapsed Time (min)	Hydrom Reading	Temp °C	Corr. Hydrom Reading	Particle Diam. (mm)	Pct Soil Susp.
2	7	17	0	--	23.4	--	--	--
2	7	18	0.67	57.0	23.4	52.5	0.0430	106.3
2	7	48	30	47.0	23.4	42.5	0.0071	86.0
2	8	18	60	43.0	23.4	38.5	0.0052	77.9
2	11	18	240	35.0	23.4	30.5	0.0028	61.7
2	3	18	480	30.5	23.5	26.0	0.0020	52.6
3	7	18	1440	15.0	23.4	10.5	0.0013	21.3

Approved By: Ricky Jensen
Ricky Jensen
Resource Chemist

Date: 5/10/02

Soils Analysis

PARTICLE SIZE ANALYSIS
ASTM D-422

Proj. Desc.:	Frontier Fertilizer	Sample I.D.:	D7309-19
Proj. Number:	152293.RJ.04	Client Sample I.D.:	SB2-9
Attention:	Brian Schroth	Date Analyzed:	05/07/02
		Sample Desc:	SOIL

INITIAL SAMPLE MASS	Units			HYGROSCOPIC MOISTURE CONTENT	Units	
Mass Dry Sample	g	50.00		Can No.	--	[ ]
Moisture Cont	%	0.00		Gross Wet Mass	g	50.00
Corr. Dry Mass	g	50.00	(M)	Gross Dry Mass	g	50.00
Pass #10 sieve	%	100.00	(B)	Moisture Mass	g	0.00
Mass of total sample represented				Tare Mass	g	0.00
by mass used in hydrometer test				Dry Soil Mass	g	50.00
W = (M/B) x 100 =		50.00 g		Moisture Content	%	0.00

Hydrometer No.: 87026 Type: 152H
Dispersing Agent: Sodium Hexametaphosphate
Amount Used: 50 ml

Specific Gravity: 2.67

Material Retained On 75 um Sieve After Washing

STD Sieve #	Gross Mass	Tare Mass	Net Mass Indiv.	Retained Accumulative	Percent Retained Individual	Percent Retained Accumulative	STD Sieve	Accum. Percent Passing
20#	418.14	413.99	4.1	--	8.3	8.3	0.850mm	91.7
40#	403.23	394.36	8.9	13.0	17.7	26.0	0.425mm	74.0
80#	357.61	336.99	20.6	33.6	41.2	67.3	0.180mm	32.7
100#	360.92	357.37	3.6	37.2	7.1	74.4	0.150mm	25.6
200#	314.89	308.83	6.1	43.3	12.1	86.5	0.075mm	13.5
<200#	366.73	366.57	0.2	43.4	0.3	86.8	<0.075mm	13.2

Reading Time Day	Hr	Min	Elapsed Time (min)	Hydrom Reading	Temp °C	Corr. Hydrom Reading	Particle Diam. (mm)	Pct Soil Susp.
2	7	18	0	--	23.4	--	--	--
2	7	19	0.67	14.5	23.4	10.0	0.0594	19.9
2	7	49	30	13.0	23.4	8.5	0.0090	17.0
2	8	19	60	12.0	23.4	7.5	0.0064	15.0
2	11	19	240	11.0	23.4	6.5	0.0032	13.0
2	3	19	480	11.0	23.5	6.5	0.0023	13.0
3	7	19	1440	10.5	23.4	6.0	0.0013	12.0

Approved By: Ricky Jensen
Ricky Jensen
Resource Chemist

Date: 5/10/02

Soils Analysis

PARTICLE SIZE ANALYSIS
ASTM D-422

Proj. Desc.:	Frontier Fertilizer	Sample I.D.:	D7309-20
Proj. Number:	152293.RJ.04	Client Sample I.D.:	SB2-10
Attention:	Brian Schroth	Date Analyzed:	05/07/02
		Sample Desc:	SOIL

INITIAL SAMPLE MASS	Units			HYGROSCOPIC MOISTURE CONTENT	Units	
Mass Dry Sample	g	50.00		Can No.	--	[ ]
Moisture Cont	%	0.00		Gross Wet Mass	g	50.00
Corr. Dry Mass	g	50.00	(M)	Gross Dry Mass	g	50.00
Pass #10 sieve	%	100.00	(B)	Moisture Mass	g	0.00
Mass of total sample represented				Tare Mass	g	0.00
by mass used in hydrometer test				Dry Soil Mass	g	50.00
W = (M/B) x 100 =		50.00 g		Moisture Content	%	0.00

Hydrometer No.: 87026 Type: 152H
Dispersing Agent: Sodium Hexametaphosphate
Amount Used: 50 ml

Specific Gravity: 2.69

Material Retained On 75 um Sieve After Washing

STD Sieve #	Gross Mass	Tare Mass	Net Mass Indiv.	Retained Accumulative	Percent Retained Individual	Percent Retained Accumulative	STD Sieve	Accum. Percent Passing
20#	443.10	428.02	15.1	--	30.2	30.2	0.850mm	69.8
40#	405.54	394.70	10.8	25.9	21.7	51.8	0.425mm	48.2
80#	360.78	352.91	7.9	33.8	15.7	67.6	0.180mm	32.4
100#	367.84	366.60	1.2	35.0	2.5	70.1	0.150mm	29.9
200#	369.45	365.96	3.5	38.5	7.0	77.0	0.075mm	23.0
<200#	367.46	367.41	0.0	38.6	0.1	77.1	<0.075mm	22.9

Reading Time Day	Hr	Min	Elapsed Time (min)	Hydrom Reading	Temp °C	Corr. Hydrom Reading	Particle Diam. (mm)	Pct Soil Susp.
2	7	19	0	--	23.4	--	--	--
2	7	20	0.67	19.0	23.4	14.5	0.0575	28.8
2	7	50	30	15.0	23.4	10.5	0.0088	20.9
2	8	20	60	14.0	23.4	9.5	0.0063	18.9
2	11	20	240	13.0	23.4	8.5	0.0031	16.9
2	3	20	480	12.5	23.5	8.0	0.0022	15.9
3	7	20	1440	12.0	23.4	7.5	0.0013	14.9

Approved By: Ricky Jensen
Ricky Jensen
Resource Chemist

Date: 5/10/02

Soils Analysis

PARTICLE SIZE ANALYSIS
ASTM D-422

Proj. Desc.:	Frontier Fertilizer	Sample I.D.:	D7309-21
Proj. Number:	152293.RJ.04	Client Sample I.D.:	SB2-11
Attention:	Brian Schroth	Date Analyzed:	05/07/02
		Sample Desc:	SOIL

INITIAL SAMPLE MASS	Units			HYGROSCOPIC MOISTURE CONTENT	Units	
Mass Dry Sample	g	50.00		Can No.	--	[ ]
Moisture Cont	%	0.00		Gross Wet Mass	g	50.00
Corr. Dry Mass	g	50.00	(M)	Gross Dry Mass	g	50.00
Pass #10 sieve	%	100.00	(B)	Moisture Mass	g	0.00
Mass of total sample represented				Tare Mass	g	0.00
by mass used in hydrometer test				Dry Soil Mass	g	50.00
W = (M/B) x 100 =		50.00 g		Moisture Content	%	0.00

Hydrometer No.: 87026 Type: 152H
Dispersing Agent: Sodium Hexametaphosphate
Amount Used: 50 ml

Specific Gravity: 2.60

Material Retained On 75 um Sieve After Washing

STD Sieve #	Gross Mass	Tare Mass	Net Mass Indiv.	Retained Accumulative	Percent Retained Individual	Percent Retained Accumulative	STD Sieve	Accum. Percent Passing
20#	414.92	413.96	1.0	--	1.9	1.9	0.850mm	98.1
40#	395.26	394.34	0.9	1.9	1.8	3.8	0.425mm	96.2
80#	338.14	336.94	1.2	3.1	2.4	6.2	0.180mm	93.8
100#	357.57	357.34	0.2	3.3	0.5	6.6	0.150mm	93.4
200#	309.80	308.82	1.0	4.3	2.0	8.6	0.075mm	91.4
<200#	366.63	366.59	0.0	4.3	0.1	8.7	<0.075mm	91.3

Reading Time Day	Hr	Min	Elapsed Time (min)	Hydrom Reading	Temp °C	Corr. Hydrom Reading	Particle Diam. (mm)	Pct Soil Susp.
2	7	20	0	--	23.4	--	--	--
2	7	21	0.67	52.0	23.4	47.5	0.0454	96.1
2	7	51	30	39.5	23.4	35.0	0.0076	70.8
2	8	21	60	36.5	23.4	32.0	0.0055	64.8
2	11	21	240	29.5	23.4	25.0	0.0029	50.6
2	3	21	480	26.5	23.5	22.0	0.0021	44.5
3	7	21	1440	12.5	23.4	8.0	0.0013	16.2

Approved By: Ricky Jensen
Ricky Jensen
Resource Chemist

Date: 5/10/02

Soils Analysis

PARTICLE SIZE ANALYSIS
ASTM D-422

Proj. Desc.:	Frontier Fertilizer	Sample I.D.:	D7309-1
Proj. Number:	152293.RJ.04	Client Sample I.D.:	SB3-1
Attention:	Brian Schroth	Date Analyzed:	05/07/02
		Sample Desc:	SOIL

INITIAL SAMPLE MASS	Units			HYGROSCOPIC MOISTURE CONTENT	Units	
Mass Dry Sample	g	50.00		Can No.	--	[ ]
Moisture Cont	%	0.00		Gross Wet Mass	g	50.00
Corr. Dry Mass	g	50.00	(M)	Gross Dry Mass	g	50.00
Pass #10 sieve	%	100.00	(B)	Moisture Mass	g	0.00
Mass of total sample represented				Tare Mass	g	0.00
by mass used in hydrometer test				Dry Soil Mass	g	50.00
W = (M/B) x 100 =		50.00 g		Moisture Content	%	0.00

Hydrometer No.: 87026 Type: 152H
Dispersing Agent: Sodium Hexametaphosphate
Amount Used: 50 ml

Specific Gravity: 2.69

Material Retained On 75 um Sieve After Washing

STD Sieve #	Gross Mass	Tare Mass	Net Mass Indiv.	Retained Accumulative	Percent Retained Individual	Percent Retained Accumulative	STD Sieve	Accum. Percent Passing
20#	414.77	414.02	0.8	--	1.5	1.5	0.850mm	98.5
40#	395.36	394.35	1.0	1.8	2.0	3.5	0.425mm	96.5
80#	343.25	336.98	6.3	8.0	12.5	16.1	0.180mm	83.9
100#	359.30	357.35	1.9	10.0	3.9	20.0	0.150mm	80.0
200#	316.36	308.85	7.5	17.5	15.0	35.0	0.075mm	65.0
<200#	367.42	366.69	0.7	18.2	1.5	36.4	<0.075mm	63.6

Reading Time Day	Hr	Min	Elapsed Time (min)	Hydrom Reading	Temp °C	Corr. Hydrom Reading	Particle Diam. (mm)	Pct Soil Susp.
30	6	42	0	--	23.3	--	--	--
30	6	43	0.67	37.5	23.3	33.0	0.0505	65.6
30	7	3	30	23.0	23.3	18.5	0.0084	36.7
30	7	43	60	21.5	23.3	17.0	0.0060	33.8
30	10	43	240	19.0	23.2	14.4	0.0030	28.6
30	2	43	480	18.0	23.4	13.5	0.0022	26.8
31	6	43	1440	17.0	23.2	12.4	0.0013	24.6

Approved By: Ricky Jensen
Ricky Jensen
Resource Chemist

Date: 5/10/02

Soils Analysis

PARTICLE SIZE ANALYSIS
ASTM D-422

Proj. Desc.:	Frontier Fertilizer	Sample I.D.:	D7309-2
Proj. Number:	152293.RJ.04	Client Sample I.D.:	SB3-2
Attention:	Brian Schroth	Date Analyzed:	05/07/02
		Sample Desc:	SOIL

INITIAL SAMPLE MASS	Units			HYGROSCOPIC MOISTURE CONTENT	Units	
Mass Dry Sample	g	50.00		Can No.	--	[ ]
Moisture Cont	%	0.00		Gross Wet Mass	g	50.00
Corr. Dry Mass	g	50.00	(M)	Gross Dry Mass	g	50.00
Pass #10 sieve	%	100.00	(B)	Moisture Mass	g	0.00
Mass of total sample represented				Tare Mass	g	0.00
by mass used in hydrometer test				Dry Soil Mass	g	50.00
W = (M/B) x 100 =		50.00 g		Moisture Content	%	0.00

Hydrometer No.: 87026 Type: 152H
Dispersing Agent: Sodium Hexametaphosphate
Amount Used: 50 ml

Specific Gravity: 2.68

Material Retained On 75 um Sieve After Washing

STD Sieve #	Gross Mass	Tare Mass	Net Mass Indiv.	Retained Accumulative	Percent Retained Individual	Percent Retained Accumulative	STD Sieve	Accum. Percent Passing
20#	428.72	428.09	0.6	--	1.3	1.3	0.850mm	98.7
40#	395.32	394.76	0.6	1.2	1.1	2.4	0.425mm	97.6
80#	355.45	352.97	2.5	3.7	5.0	7.3	0.180mm	92.7
100#	367.49	366.67	0.8	4.5	1.6	9.0	0.150mm	91.0
200#	370.30	366.04	4.3	8.8	8.5	17.5	0.075mm	82.5
<200#	367.93	367.47	0.5	9.2	0.9	18.4	<0.075mm	81.6

Reading Time Day	Hr	Min	Elapsed Time (min)	Hydrom Reading	Temp °C	Corr. Hydrom Reading	Particle Diam. (mm)	Pct Soil Susp.
2	7	0	0	--	23.4	--	--	--
2	7	1	0.67	46.0	23.4	41.5	0.0470	82.6
2	7	31	30	32.5	23.4	28.0	0.0079	55.7
2	8	1	60	30.5	23.4	26.0	0.0056	51.8
2	11	1	240	27.0	23.4	22.5	0.0029	44.8
2	3	1	480	25.5	23.5	21.0	0.0021	41.8
3	7	1	1440	22.5	23.4	18.0	0.0012	35.8

Approved By: Ricky Jensen
Ricky Jensen
Resource Chemist

Date: 5/10/02

Soils Analysis

PARTICLE SIZE ANALYSIS
ASTM D-422

Proj. Desc.:	Frontier Fertilizer	Sample I.D.:	D7309-3
Proj. Number:	152293.RJ.04	Client Sample I.D.:	SB3-3
Attention:	Brian Schroth	Date Analyzed:	05/07/02
		Sample Desc:	SOIL

INITIAL SAMPLE MASS	Units			HYGROSCOPIC MOISTURE CONTENT	Units	
Mass Dry Sample	g	50.00		Can No.	--	[ ]
Moisture Cont	%	0.00		Gross Wet Mass	g	50.00
Corr. Dry Mass	g	50.00	(M)	Gross Dry Mass	g	50.00
Pass #10 sieve	%	100.00	(B)	Moisture Mass	g	0.00
Mass of total sample represented				Tare Mass	g	0.00
by mass used in hydrometer test				Dry Soil Mass	g	50.00
W = (M/B) x 100 =		50.00 g		Moisture Content	%	0.00

Hydrometer No.: 87026 Type: 152H
Dispersing Agent: Sodium Hexametaphosphate
Amount Used: 50 ml

Specific Gravity: 2.68

Material Retained On 75 um Sieve After Washing

STD Sieve #	Gross Mass	Tare Mass	Net Mass Indiv.	Retained Accumulative	Percent Retained Individual	Percent Retained Accumulative	STD Sieve	Accum. Percent Passing
20#	428.07	428.06	0.0	--	0.0	0.0	0.850mm	100.0
40#	394.97	394.74	0.2	0.2	0.5	0.5	0.425mm	99.5
80#	362.54	352.94	9.6	9.8	19.2	19.7	0.180mm	80.3
100#	370.82	366.64	4.2	14.0	8.4	28.0	0.150mm	72.0
200#	380.39	366.01	14.4	28.4	28.8	56.8	0.075mm	43.2
<200#	368.26	367.47	0.8	29.2	1.6	58.4	<0.075mm	41.6

Reading Time Day	Hr	Min	Elapsed Time (min)	Hydrom Reading	Temp °C	Corr. Hydrom Reading	Particle Diam. (mm)	Pct Soil Susp.
2	7	2	0	--	23.4	--	--	--
2	7	3	0.67	27.5	23.4	23.0	0.0545	45.8
2	7	33	30	20.5	23.4	16.0	0.0085	31.9
2	8	3	60	18.5	23.4	14.0	0.0061	27.9
2	11	3	240	17.5	23.4	13.0	0.0031	25.9
2	3	3	480	17.0	23.5	12.5	0.0022	24.9
3	7	3	1440	15.5	23.4	11.0	0.0013	21.9

Approved By: Ricky Jensen
Ricky Jensen
Resource Chemist

Date: 5/10/02

Soils Analysis

PARTICLE SIZE ANALYSIS
ASTM D-422

Proj. Desc.:	Frontier Fertilizer	Sample I.D.:	D7309-4
Proj. Number:	152293.RJ.04	Client Sample I.D.:	SB3-4
Attention:	Brian Schroth	Date Analyzed:	05/07/02
		Sample Desc:	SOIL

INITIAL SAMPLE MASS	Units			HYGROSCOPIC MOISTURE CONTENT	Units	
Mass Dry Sample	g	50.00		Can No.	--	[ ]
Moisture Cont	%	0.00		Gross Wet Mass	g	50.00
Corr. Dry Mass	g	50.00	(M)	Gross Dry Mass	g	50.00
Pass #10 sieve	%	100.00	(B)	Moisture Mass	g	0.00
Mass of total sample represented				Tare Mass	g	0.00
by mass used in hydrometer test				Dry Soil Mass	g	50.00
W = (M/B) x 100 =		50.00 g		Moisture Content	%	0.00

Hydrometer No.: 87026 Type: 152H
Dispersing Agent: Sodium Hexametaphosphate
Amount Used: 50 ml

Specific Gravity: 2.67

Material Retained On 75 um Sieve After Washing

STD Sieve #	Gross Mass	Tare Mass	Net Mass Indiv.	Retained Accumulative	Percent Retained Individual	Percent Retained Accumulative	STD Sieve	Accum. Percent Passing
20#	414.27	413.99	0.3	--	0.6	0.6	0.850mm	99.4
40#	394.81	394.35	0.5	0.7	0.9	1.5	0.425mm	98.5
80#	339.78	336.94	2.8	3.6	5.7	7.2	0.180mm	92.8
100#	359.26	357.34	1.9	5.5	3.8	11.0	0.150mm	89.0
200#	320.36	308.82	11.5	17.0	23.1	34.1	0.075mm	65.9
<200#	366.98	366.58	0.4	17.4	0.8	34.9	<0.075mm	65.1

Reading Time Day	Hr	Min	Elapsed Time (min)	Hydrom Reading	Temp °C	Corr. Hydrom Reading	Particle Diam. (mm)	Pct Soil Susp.
2	7	3	0	--	23.4	--	--	--
2	7	4	0.67	37.5	23.4	33.0	0.0508	65.8
2	7	34	30	22.0	23.4	17.5	0.0085	34.9
2	8	4	60	20.0	23.4	15.5	0.0061	30.9
2	11	4	240	17.5	23.4	13.0	0.0031	25.9
2	3	4	480	16.5	23.5	12.0	0.0022	23.9
3	7	4	1440	15.5	23.4	11.0	0.0013	21.9

Approved By: Ricky Jensen
Ricky Jensen
Resource Chemist

Date: 5/10/02

Soils Analysis

PARTICLE SIZE ANALYSIS
ASTM D-422

Proj. Desc.:	Frontier Fertilizer	Sample I.D.:	D7309-5
Proj. Number:	152293.RJ.04	Client Sample I.D.:	SB3-5
Attention:	Brian Schroth	Date Analyzed:	05/07/02
		Sample Desc:	SOIL

INITIAL SAMPLE MASS	Units			HYGROSCOPIC MOISTURE CONTENT	Units	
Mass Dry Sample	g	50.00		Can No.	--	[ ]
Moisture Cont	%	0.00		Gross Wet Mass	g	50.00
Corr. Dry Mass	g	50.00	(M)	Gross Dry Mass	g	50.00
Pass #10 sieve	%	100.00	(B)	Moisture Mass	g	0.00
Mass of total sample represented				Tare Mass	g	0.00
by mass used in hydrometer test				Dry Soil Mass	g	50.00
W = (M/B) x 100 =		50.00 g		Moisture Content	%	0.00

Hydrometer No.: 87026 Type: 152H
Dispersing Agent: Sodium Hexametaphosphate
Amount Used: 50 ml

Specific Gravity: 2.64

Material Retained On 75 um Sieve After Washing

STD Sieve #	Gross Mass	Tare Mass	Net Mass Indiv.	Retained Accumulative	Percent Retained Individual	Percent Retained Accumulative	STD Sieve	Accum. Percent Passing
20#	428.07	428.05	0.0	--	0.0	0.0	0.850mm	100.0
40#	394.74	394.74	0.0	0.0	0.0	0.0	0.425mm	100.0
80#	352.98	352.94	0.0	0.1	0.1	0.1	0.180mm	99.9
100#	366.69	366.65	0.0	0.1	0.1	0.2	0.150mm	99.8
200#	366.09	366.00	0.1	0.2	0.2	0.4	0.075mm	99.6
<200#	367.47	367.45	0.0	0.2	0.0	0.4	<0.075mm	99.6

Reading Time Day	Hr	Min	Elapsed Time (min)	Hydrom Reading	Temp °C	Corr. Hydrom Reading	Particle Diam. (mm)	Pct Soil Susp.
2	7	4	0	--	23.4	--	--	--
2	7	5	0.67	57.0	23.4	52.5	0.0424	105.4
2	7	35	30	38.0	23.4	33.5	0.0076	67.2
2	8	5	60	34.0	23.4	29.5	0.0056	59.2
2	11	5	240	27.5	23.4	23.0	0.0029	46.2
2	3	5	480	24.5	23.5	20.0	0.0021	40.1
3	7	5	1440	17.0	23.4	12.5	0.0013	25.1

Approved By: Ricky Jensen
Ricky Jensen
Resource Chemist

Date: 5/10/02

Soils Analysis

PARTICLE SIZE ANALYSIS
ASTM D-422

Proj. Desc.:	Frontier Fertilizer	Sample I.D.:	D7309-6
Proj. Number:	152293.RJ.04	Client Sample I.D.:	SB3-6
Attention:	Brian Schroth	Date Analyzed:	05/07/02
		Sample Desc:	SOIL

INITIAL SAMPLE MASS	Units			HYGROSCOPIC MOISTURE CONTENT	Units	
Mass Dry Sample	g	50.00		Can No.	--	[ ]
Moisture Cont	%	0.00		Gross Wet Mass	g	50.00
Corr. Dry Mass	g	50.00	(M)	Gross Dry Mass	g	50.00
Pass #10 sieve	%	100.00	(B)	Moisture Mass	g	0.00
Mass of total sample represented				Tare Mass	g	0.00
by mass used in hydrometer test				Dry Soil Mass	g	50.00
W = (M/B) x 100 =		50.00 g		Moisture Content	%	0.00

Hydrometer No.: 87026 Type: 152H
Dispersing Agent: Sodium Hexametaphosphate
Amount Used: 50 ml

Specific Gravity: 2.71

Material Retained On 75 um Sieve After Washing

STD Sieve #	Gross Mass	Tare Mass	Net Mass Indiv.	Retained Accumulative	Percent Retained Individual	Percent Retained Accumulative	STD Sieve	Accum. Percent Passing
20#	414.51	414.00	0.5	--	1.0	1.0	0.850mm	99.0
40#	403.04	394.37	8.7	9.2	17.3	18.4	0.425mm	81.6
80#	357.68	336.96	20.7	29.9	41.4	59.8	0.180mm	40.2
100#	360.40	357.32	3.1	33.0	6.2	66.0	0.150mm	34.0
200#	314.33	308.81	5.5	38.5	11.0	77.0	0.075mm	23.0
<200#	366.79	366.60	0.2	38.7	0.4	77.4	<0.075mm	22.6

Reading Time Day	Hr	Min	Elapsed Time (min)	Hydrom Reading	Temp °C	Corr. Hydrom Reading	Particle Diam. (mm)	Pct Soil Susp.
2	7	5	0	--	23.4	--	--	--
2	7	6	0.67	18.5	23.4	14.0	0.0573	27.7
2	7	36	30	16.0	23.4	11.5	0.0087	22.7
2	8	6	60	15.5	23.4	11.0	0.0062	21.8
2	11	6	240	14.5	23.4	10.0	0.0031	19.8
2	3	6	480	14.0	23.5	9.5	0.0022	18.8
3	7	6	1440	13.5	23.4	9.0	0.0013	17.8

Approved By: Ricky Jensen
Ricky Jensen
Resource Chemist

Date: 5/13/02

Soils Analysis

PARTICLE SIZE ANALYSIS
ASTM D-422

Proj. Desc.:	Frontier Fertilizer	Sample I.D.:	D7309-7
Proj. Number:	152293.RJ.04	Client Sample I.D.:	SB3-7
Attention:	Brian Schroth	Date Analyzed:	05/07/02
		Sample Desc:	SOIL

INITIAL SAMPLE MASS	Units			HYGROSCOPIC MOISTURE CONTENT	Units	
Mass Dry Sample	g	50.00		Can No.	--	[ ]
Moisture Cont	%	0.00		Gross Wet Mass	g	50.00
Corr. Dry Mass	g	50.00	(M)	Gross Dry Mass	g	50.00
Pass #10 sieve	%	100.00	(B)	Moisture Mass	g	0.00
Mass of total sample represented				Tare Mass	g	0.00
by mass used in hydrometer test				Dry Soil Mass	g	50.00
W = (M/B) x 100 =		50.00 g		Moisture Content	%	0.00

Hydrometer No.: 87026 Type: 152H
Dispersing Agent: Sodium Hexametaphosphate
Amount Used: 50 ml

Specific Gravity: 2.69

Material Retained On 75 um Sieve After Washing

STD Sieve #	Gross Mass	Tare Mass	Net Mass Indiv.	Retained Accumulative	Percent Retained Individual	Percent Retained Accumulative	STD Sieve	Accum. Percent Passing
20#	435.60	428.07	7.5	--	15.1	15.1	0.850mm	84.9
40#	402.33	394.73	7.6	15.1	15.2	30.3	0.425mm	69.7
80#	375.67	352.94	22.7	37.9	45.5	75.7	0.180mm	24.3
100#	368.52	366.69	1.8	39.7	3.7	79.4	0.150mm	20.6
200#	369.26	366.00	3.3	43.0	6.5	85.9	0.075mm	14.1
<200#	367.61	367.48	0.1	43.1	0.3	86.2	<0.075mm	13.8

Reading Time Day	Hr	Min	Elapsed Time (min)	Hydrom Reading	Temp °C	Corr. Hydrom Reading	Particle Diam. (mm)	Pct Soil Susp.
2	7	6	0	--	23.4	--	--	--
2	7	7	0.67	15.5	23.4	11.0	0.0587	21.9
2	7	37	30	13.0	23.4	8.5	0.0089	16.9
2	8	7	60	12.5	23.4	8.0	0.0063	15.9
2	11	7	240	12.0	23.4	7.5	0.0032	14.9
2	3	7	480	11.5	23.5	7.0	0.0022	13.9
3	7	7	1440	11.5	23.4	7.0	0.0013	13.9

Approved By: Ricky Jensen
Ricky Jensen
Resource Chemist

Date: 5/10/02

Soils Analysis

PARTICLE SIZE ANALYSIS
ASTM D-422

Proj. Desc.:	Frontier Fertilizer	Sample I.D.:	D7309-8
Proj. Number:	152293.RJ.04	Client Sample I.D.:	SB3-8
Attention:	Brian Schroth	Date Analyzed:	05/07/02
		Sample Desc:	SOIL

INITIAL SAMPLE MASS	Units			HYGROSCOPIC MOISTURE CONTENT	Units	
Mass Dry Sample	g	50.00		Can No.	--	[ ]
Moisture Cont	%	0.00		Gross Wet Mass	g	50.00
Corr. Dry Mass	g	50.00	(M)	Gross Dry Mass	g	50.00
Pass #10 sieve	%	100.00	(B)	Moisture Mass	g	0.00
Mass of total sample represented				Tare Mass	g	0.00
by mass used in hydrometer test				Dry Soil Mass	g	50.00
W = (M/B) x 100 =		50.00 g		Moisture Content	%	0.00

Hydrometer No.: 87026 Type: 152H
Dispersing Agent: Sodium Hexametaphosphate
Amount Used: 50 ml

Specific Gravity: 2.68

Material Retained On 75 um Sieve After Washing

STD Sieve #	Gross Mass	Tare Mass	Net Mass Indiv.	Retained Accumulative	Percent Retained Individual	Percent Retained Accumulative	STD Sieve	Accum. Percent Passing
20#	413.99	413.99	0.0	--	0.0	0.0	0.850mm	100.0
40#	394.62	394.36	0.3	0.3	0.5	0.5	0.425mm	99.5
80#	359.92	336.99	22.9	23.2	45.9	46.4	0.180mm	53.6
100#	362.94	357.38	5.6	28.8	11.1	57.5	0.150mm	42.5
200#	318.28	308.85	9.4	38.2	18.9	76.4	0.075mm	23.6
<200#	366.70	366.63	0.1	38.2	0.1	76.5	<0.075mm	23.5

Reading Time Day	Hr	Min	Elapsed Time (min)	Hydrom Reading	Temp °C	Corr. Hydrom Reading	Particle Diam. (mm)	Pct Soil Susp.
2	7	7	0	--	23.4	--	--	--
2	7	8	0.67	18.0	23.4	13.5	0.0580	26.9
2	7	38	30	14.5	23.4	10.0	0.0089	19.9
2	8	8	60	14.5	23.4	10.0	0.0063	19.9
2	11	8	240	13.0	23.4	8.5	0.0032	16.9
2	3	8	480	13.0	23.5	8.5	0.0022	16.9
3	7	8	1440	12.0	23.4	7.5	0.0013	14.9

Approved By: Ricky Jensen
Ricky Jensen
Resource Chemist

Date: 5/10/02

Soils Analysis

PARTICLE SIZE ANALYSIS
ASTM D-422

Proj. Desc.:	Frontier Fertilizer	Sample I.D.:	D7309-9
Proj. Number:	152293.RJ.04	Client Sample I.D.:	SB3-9
Attention:	Brian Schroth	Date Analyzed:	05/07/02
		Sample Desc:	SOIL

INITIAL SAMPLE MASS	Units			HYGROSCOPIC MOISTURE CONTENT	Units	
Mass Dry Sample	g	50.00		Can No.	--	[ ]
Moisture Cont	%	0.00		Gross Wet Mass	g	50.00
Corr. Dry Mass	g	50.00	(M)	Gross Dry Mass	g	50.00
Pass #10 sieve	%	100.00	(B)	Moisture Mass	g	0.00
Mass of total sample represented				Tare Mass	g	0.00
by mass used in hydrometer test				Dry Soil Mass	g	50.00
W = (M/B) x 100 =		50.00 g		Moisture Content	%	0.00

Hydrometer No.: 87026 Type: 152H
Dispersing Agent: Sodium Hexametaphosphate
Amount Used: 50 ml

Specific Gravity: 2.64

Material Retained On 75 um Sieve After Washing

STD Sieve #	Gross Mass	Tare Mass	Net Mass Indiv.	Retained Accumulative	Percent Retained Individual	Percent Retained Accumulative	STD Sieve	Accum. Percent Passing
20#	414.34	413.96	0.4	--	0.8	0.8	0.850mm	99.2
40#	394.78	394.38	0.4	0.8	0.8	1.6	0.425mm	98.4
80#	337.96	336.96	1.0	1.8	2.0	3.6	0.180mm	96.4
100#	357.63	357.34	0.3	2.1	0.6	4.1	0.150mm	95.9
200#	309.86	308.81	1.1	3.1	2.1	6.2	0.075mm	93.8
<200#	366.61	366.61	0.0	3.1	0.0	6.2	<0.075mm	93.8

Reading Time Day	Hr	Min	Elapsed Time (min)	Hydrom Reading	Temp °C	Corr. Hydrom Reading	Particle Diam. (mm)	Pct Soil Susp.
2	7	8	0	--	23.4	--	--	--
2	7	9	0.67	54.5	23.4	50.0	0.0437	100.4
2	7	39	30	43.0	23.4	38.5	0.0073	77.3
2	8	9	60	39.5	23.4	35.0	0.0053	70.3
2	11	9	240	32.5	23.4	28.0	0.0028	56.2
2	3	9	480	27.0	23.5	22.5	0.0021	45.2
3	7	9	1440	11.5	23.4	7.0	0.0013	14.1

Approved By: Ricky Jensen
Ricky Jensen
Resource Chemist

Date: 5/10/02

Soils Analysis

PARTICLE SIZE ANALYSIS
ASTM D-422

Proj. Desc.:	Frontier Fertilizer	Sample I.D.:	D7309-10
Proj. Number:	152293.RJ.04	Client Sample I.D.:	SB3-10
Attention:	Brian Schroth	Date Analyzed:	05/07/02
		Sample Desc:	SOIL

INITIAL SAMPLE MASS	Units			HYGROSCOPIC MOISTURE CONTENT	Units	
Mass Dry Sample	g	50.00		Can No.	--	[ ]
Moisture Cont	%	0.00		Gross Wet Mass	g	50.00
Corr. Dry Mass	g	50.00	(M)	Gross Dry Mass	g	50.00
Pass #10 sieve	%	100.00	(B)	Moisture Mass	g	0.00
Mass of total sample represented				Tare Mass	g	0.00
by mass used in hydrometer test				Dry Soil Mass	g	50.00
W = (M/B) x 100 =		50.00 g		Moisture Content	%	0.00

Hydrometer No.: 87026 Type: 152H
Dispersing Agent: Sodium Hexametaphosphate
Amount Used: 50 ml

Specific Gravity: 2.67

Material Retained On 75 um Sieve After Washing

STD Sieve #	Gross Mass	Tare Mass	Net Mass Indiv.	Retained Accumulative	Percent Retained Individual	Percent Retained Accumulative	STD Sieve	Accum. Percent Passing
20#	433.65	428.03	5.6	--	11.2	11.2	0.850mm	88.8
40#	412.12	394.71	17.4	23.0	34.8	46.1	0.425mm	53.9
80#	374.76	352.95	21.8	44.8	43.6	89.7	0.180mm	10.3
100#	367.00	366.66	0.3	45.2	0.7	90.4	0.150mm	9.6
200#	366.45	366.04	0.4	45.6	0.8	91.2	0.075mm	8.8
<200#	367.52	367.52	0.0	45.6	0.0	91.2	<0.075mm	8.8

Reading Time Day	Hr	Min	Elapsed Time (min)	Hydrom Reading	Temp °C	Corr. Hydrom Reading	Particle Diam. (mm)	Pct Soil Susp.
2	7	9	0	--	23.4	--	--	--
2	7	10	0.67	13.5	23.4	9.0	0.0597	18.0
2	7	40	30	13.0	23.4	8.5	0.0090	17.0
2	8	10	60	12.5	23.4	8.0	0.0063	16.0
2	11	10	240	12.0	23.4	7.5	0.0032	15.0
2	3	10	480	12.0	23.5	7.5	0.0022	15.0
3	7	10	1440	11.5	23.4	7.0	0.0013	14.0

Approved By: Ricky Jensen
Ricky Jensen
Resource Chemist

Date: 5/10/02

Soils Analysis

PARTICLE SIZE ANALYSIS
ASTM D-422

Proj. Desc.:	Frontier Fertilizer	Sample I.D.:	D7248-11
Proj. Number:	152293.RJ.04	Client Sample I.D.:	SB4-1
Attention:	Brian Schroth	Date Analyzed:	04/25/02
		Sample Desc:	SOIL

INITIAL SAMPLE MASS	Units			HYGROSCOPIC MOISTURE CONTENT	Units	
Mass Dry Sample	g	50.00		Can No.	--	[ ]
Moisture Cont	%	0.00		Gross Wet Mass	g	50.00
Corr. Dry Mass	g	50.00	(M)	Gross Dry Mass	g	50.00
Pass #10 sieve	%	100.00	(B)	Moisture Mass	g	0.00
Mass of total sample represented				Tare Mass	g	0.00
by mass used in hydrometer test				Dry Soil Mass	g	50.00
W = (M/B) x 100 =		50.00 g		Moisture Content	%	0.00

Hydrometer No.: 87026 Type: 152H
Dispersing Agent: Sodium Hexametaphosphate
Amount Used: 50 ml

Specific Gravity: 2.69

Material Retained On 75 um Sieve After Washing

STD Sieve #	Gross Mass	Tare Mass	Net Mass Indiv.	Retained Accumulative	Percent Retained Individual	Percent Retained Accumulative	STD Sieve	Accum. Percent Passing
20#	428.56	428.08	0.5	--	1.0	1.0	0.850mm	99.0
40#	395.09	394.73	0.4	0.8	0.7	1.7	0.425mm	98.3
80#	354.29	352.95	1.3	2.2	2.7	4.4	0.180mm	95.6
100#	367.31	366.64	0.7	2.9	1.3	5.7	0.150mm	94.3
200#	371.25	365.99	5.3	8.1	10.5	16.2	0.075mm	83.8
<200#	367.59	367.46	0.1	8.2	0.3	16.5	<0.075mm	83.5

Reading Time Day	Hr	Min	Elapsed Time (min)	Hydrom Reading	Temp °C	Corr. Hydrom Reading	Particle Diam. (mm)	Pct Soil Susp.
24	7	11	0	--	23.9	--	--	--
24	7	12	0.67	45.5	23.9	41.2	0.0468	81.8
24	7	42	30	28.5	23.9	24.2	0.0080	48.1
24	8	12	60	26.5	23.9	22.2	0.0057	44.1
24	11	12	240	23.5	23.9	19.2	0.0029	38.1
24	3	12	480	22.5	23.9	18.2	0.0021	36.2
25	7	12	1440	21.0	23.8	16.6	0.0012	33.0

Approved By: Ricky Jensen
Ricky Jensen
Resource Chemist

Date: 4/28/02

Soils Analysis

PARTICLE SIZE ANALYSIS
ASTM D-422

Proj. Desc.:	Frontier Fertilizer	Sample I.D.:	D7248-12
Proj. Number:	152293.RJ.04	Client Sample I.D.:	SB4-2
Attention:	Brian Schroth	Date Analyzed:	04/25/02
		Sample Desc:	SOIL

INITIAL SAMPLE MASS	Units			HYGROSCOPIC MOISTURE CONTENT	Units	
Mass Dry Sample	g	50.00		Can No.	--	[ ]
Moisture Cont	%	0.00		Gross Wet Mass	g	50.00
Corr. Dry Mass	g	50.00	(M)	Gross Dry Mass	g	50.00
Pass #10 sieve	%	100.00	(B)	Moisture Mass	g	0.00
Mass of total sample represented				Tare Mass	g	0.00
by mass used in hydrometer test				Dry Soil Mass	g	50.00
W = (M/B) x 100 =		50.00 g		Moisture Content	%	0.00

Hydrometer No.: 87026 Type: 152H
Dispersing Agent: Sodium Hexametaphosphate
Amount Used: 50 ml

Specific Gravity: 2.71

Material Retained On 75 um Sieve After Washing

STD Sieve #	Gross Mass	Tare Mass	Net Mass Indiv.	Retained Accumulative	Percent Retained Individual	Percent Retained Accumulative	STD Sieve	Accum. Percent Passing
20#	414.96	413.99	1.0	--	1.9	1.9	0.850mm	98.1
40#	395.41	394.39	1.0	2.0	2.0	4.0	0.425mm	96.0
80#	344.36	336.93	7.4	9.4	14.9	18.8	0.180mm	81.2
100#	359.80	357.34	2.5	11.9	4.9	23.8	0.150mm	76.2
200#	316.43	308.83	7.6	19.5	15.2	39.0	0.075mm	61.0
<200#	366.80	366.61	0.2	19.7	0.4	39.3	<0.075mm	60.7

Reading Time Day	Hr	Min	Elapsed Time (min)	Hydrom Reading	Temp °C	Corr. Hydrom Reading	Particle Diam. (mm)	Pct Soil Susp.
24	7	12	0	--	23.9	--	--	--
24	7	13	0.67	37.0	23.9	32.7	0.0500	64.7
24	7	43	30	24.0	23.9	19.7	0.0082	39.0
24	8	13	60	22.0	23.9	17.7	0.0059	35.0
24	11	13	240	19.0	23.9	14.7	0.0030	29.1
24	3	13	480	18.5	23.9	14.2	0.0021	28.1
25	7	13	1440	17.5	23.8	13.1	0.0012	25.9

Approved By: Ricky Jensen
Ricky Jensen
Resource Chemist

Date: 4/28/02

Soils Analysis

PARTICLE SIZE ANALYSIS
ASTM D-422

Proj. Desc.:	Frontier Fertilizer	Sample I.D.:	D7248-13
Proj. Number:	152293.RJ.04	Client Sample I.D.:	SB4-3
Attention:	Brian Schroth	Date Analyzed:	04/25/02
		Sample Desc:	SOIL

INITIAL SAMPLE MASS	Units			HYGROSCOPIC MOISTURE CONTENT	Units	
Mass Dry Sample	g	50.00		Can No.	--	[ ]
Moisture Cont	%	0.00		Gross Wet Mass	g	50.00
Corr. Dry Mass	g	50.00	(M)	Gross Dry Mass	g	50.00
Pass #10 sieve	%	100.00	(B)	Moisture Mass	g	0.00
Mass of total sample represented				Tare Mass	g	0.00
by mass used in hydrometer test				Dry Soil Mass	g	50.00
W = (M/B) x 100 =		50.00 g		Moisture Content	%	0.00

Hydrometer No.: 87026 Type: 152H
Dispersing Agent: Sodium Hexametaphosphate
Amount Used: 50 ml

Specific Gravity: 2.71

Material Retained On 75 um Sieve After Washing

STD Sieve #	Gross Mass	Tare Mass	Net Mass Indiv.	Retained Accumulative	Percent Retained Individual	Percent Retained Accumulative	STD Sieve	Accum. Percent Passing
20#	428.09	428.08	0.0	--	0.0	0.0	0.850mm	100.0
40#	394.75	394.75	0.0	0.0	0.0	0.0	0.425mm	100.0
80#	353.18	352.93	0.3	0.3	0.5	0.5	0.180mm	99.5
100#	366.73	366.64	0.1	0.4	0.2	0.7	0.150mm	99.3
200#	366.48	366.02	0.5	0.8	0.9	1.6	0.075mm	98.4
<200#	367.48	367.42	0.1	0.9	0.1	1.7	<0.075mm	98.3

Reading Time Day	Hr	Min	Elapsed Time (min)	Hydrom Reading	Temp °C	Corr. Hydrom Reading	Particle Diam. (mm)	Pct Soil Susp.
24	7	13	0	--	23.9	--	--	--
24	7	14	0.67	58.0	23.9	53.7	0.0408	106.2
24	7	44	30	48.5	23.9	44.2	0.0068	87.4
24	8	14	60	44.0	23.9	39.7	0.0050	78.5
24	11	14	240	35.5	23.9	31.2	0.0027	61.7
24	3	14	480	30.5	23.9	26.2	0.0020	51.8
25	7	14	1440	24.0	23.8	19.6	0.0012	38.8

Approved By: Ricky Jensen
Ricky Jensen
Resource Chemist

Date: 4/28/02

Soils Analysis

PARTICLE SIZE ANALYSIS
ASTM D-422

Proj. Desc.:	Frontier Fertilizer	Sample I.D.:	D7248-14
Proj. Number:	152293.RJ.04	Client Sample I.D.:	SB4-4
Attention:	Brian Schroth	Date Analyzed:	04/25/02
		Sample Desc:	SOIL

INITIAL SAMPLE MASS	Units			HYGROSCOPIC MOISTURE CONTENT	Units	
Mass Dry Sample	g	50.00		Can No.	--	[ ]
Moisture Cont	%	0.00		Gross Wet Mass	g	50.00
Corr. Dry Mass	g	50.00	(M)	Gross Dry Mass	g	50.00
Pass #10 sieve	%	100.00	(B)	Moisture Mass	g	0.00
Mass of total sample represented				Tare Mass	g	0.00
by mass used in hydrometer test				Dry Soil Mass	g	50.00
W = (M/B) x 100 =		50.00 g		Moisture Content	%	0.00

Hydrometer No.: 87026 Type: 152H
Dispersing Agent: Sodium Hexametaphosphate
Amount Used: 50 ml

Specific Gravity: 2.67

Material Retained On 75 um Sieve After Washing

STD Sieve #	Gross Mass	Tare Mass	Net Mass Indiv.	Retained Accumulative	Percent Retained Individual	Percent Retained Accumulative	STD Sieve	Accum. Percent Passing
20#	414.01	414.01	0.0	--	0.0	0.0	0.850mm	100.0
40#	394.52	394.40	0.1	0.1	0.2	0.2	0.425mm	99.8
80#	349.22	336.97	12.3	12.4	24.5	24.7	0.180mm	75.3
100#	362.70	357.35	5.3	17.7	10.7	35.4	0.150mm	64.6
200#	321.41	308.84	12.6	30.3	25.1	60.6	0.075mm	39.4
<200#	367.11	366.59	0.5	30.8	1.0	61.6	<0.075mm	38.4

Reading Time Day	Hr	Min	Elapsed Time (min)	Hydrom Reading	Temp °C	Corr. Hydrom Reading	Particle Diam. (mm)	Pct Soil Susp.
24	7	14	0	--	23.9	--	--	--
24	7	15	0.67	26.5	23.9	22.2	0.0547	44.3
24	7	45	30	19.5	23.9	15.2	0.0086	30.3
24	8	15	60	18.5	23.9	14.2	0.0061	28.3
24	11	15	240	17.0	23.9	12.7	0.0031	25.3
24	3	15	480	17.0	23.9	12.7	0.0022	25.3
25	7	15	1440	16.0	23.8	11.6	0.0013	23.1

Approved By: Ricky Jensen
Ricky Jensen
Resource Chemist

Date: 4/28/02

Soils Analysis

PARTICLE SIZE ANALYSIS
ASTM D-422

Proj. Desc.:	Frontier Fertilizer	Sample I.D.:	D7248-15
Proj. Number:	152293.RJ.04	Client Sample I.D.:	SB4-5
Attention:	Brian Schroth	Date Analyzed:	04/25/02
		Sample Desc:	SOIL

INITIAL SAMPLE MASS	Units			HYGROSCOPIC MOISTURE CONTENT	Units	
Mass Dry Sample	g	50.00		Can No.	--	[ ]
Moisture Cont	%	0.00		Gross Wet Mass	g	50.00
Corr. Dry Mass	g	50.00	(M)	Gross Dry Mass	g	50.00
Pass #10 sieve	%	100.00	(B)	Moisture Mass	g	0.00
Mass of total sample represented				Tare Mass	g	0.00
by mass used in hydrometer test				Dry Soil Mass	g	50.00
W = (M/B) x 100 =		50.00	g	Moisture Content	%	0.00

Hydrometer No.: 87026 Type: 152H
Dispersing Agent: Sodium Hexametaphosphate
Amount Used: 50 ml

Specific Gravity: 2.74

Material Retained On 75 um Sieve After Washing

STD Sieve #	Gross Mass	Tare Mass	Net Mass Indiv.	Retained Accumulative	Percent Retained Individual	Percent Retained Accumulative	STD Sieve	Accum. Percent Passing
20#	428.58	428.10	0.5	--	1.0	1.0	0.850mm	99.0
40#	395.52	394.74	0.8	1.3	1.6	2.5	0.425mm	97.5
80#	354.01	352.96	1.1	2.3	2.1	4.6	0.180mm	95.4
100#	367.04	366.65	0.4	2.7	0.8	5.4	0.150mm	94.6
200#	367.06	366.03	1.0	3.7	2.1	7.5	0.075mm	92.5
<200#	367.51	367.51	0.0	3.7	0.0	7.5	<0.075mm	92.5

Reading Time Day	Hr	Min	Elapsed Time (min)	Hydrom Reading	Temp °C	Corr. Hydrom Reading	Particle Diam. (mm)	Pct Soil Susp.
24	7	15	0	--	23.9	--	--	--
24	7	16	0.67	54.0	23.9	49.7	0.0424	97.7
24	7	46	30	41.0	23.9	36.7	0.0072	72.1
24	8	16	60	37.0	23.9	32.7	0.0052	64.3
24	11	16	240	28.5	23.9	24.2	0.0028	47.6
24	3	16	480	25.5	23.9	21.2	0.0020	41.7
25	7	16	1440	22.0	23.8	17.6	0.0012	34.6

Approved By: Ricky Jensen
Ricky Jensen
Resource Chemist

Date: 4/28/02

Soils Analysis

PARTICLE SIZE ANALYSIS
ASTM D-422

Proj. Desc.:	Frontier Fertilizer	Sample I.D.:	D7248-16
Proj. Number:	152293.RJ.04	Client Sample I.D.:	SB4-6
Attention:	Brian Schroth	Date Analyzed:	04/25/02
		Sample Desc:	SOIL

INITIAL SAMPLE MASS	Units			HYGROSCOPIC MOISTURE CONTENT	Units	
Mass Dry Sample	g	50.00		Can No.	--	[ ]
Moisture Cont	%	0.00		Gross Wet Mass	g	50.00
Corr. Dry Mass	g	50.00	(M)	Gross Dry Mass	g	50.00
Pass #10 sieve	%	100.00	(B)	Moisture Mass	g	0.00
Mass of total sample represented				Tare Mass	g	0.00
by mass used in hydrometer test				Dry Soil Mass	g	50.00
W = (M/B) x 100 =		50.00 g		Moisture Content	%	0.00

Hydrometer No.: 87026 Type: 152H
Dispersing Agent: Sodium Hexametaphosphate
Amount Used: 50 ml

Specific Gravity: 2.68

Material Retained On 75 um Sieve After Washing

STD Sieve #	Gross Mass	Tare Mass	Net Mass Indiv.	Retained Accumulative	Percent Retained Individual	Percent Retained Accumulative	STD Sieve	Accum. Percent Passing
20#	414.95	413.97	1.0	--	2.0	2.0	0.850mm	98.0
40#	395.14	394.36	0.8	1.8	1.6	3.5	0.425mm	96.5
80#	338.12	336.92	1.2	3.0	2.4	5.9	0.180mm	94.1
100#	357.73	357.30	0.4	3.4	0.9	6.8	0.150mm	93.2
200#	311.61	308.79	2.8	6.2	5.6	12.4	0.075mm	87.6
<200#	366.65	366.60	0.0	6.3	0.1	12.5	<0.075mm	87.5

Reading Time Day	Hr	Min	Elapsed Time (min)	Hydrom Reading	Temp °C	Corr. Hydrom Reading	Particle Diam. (mm)	Pct Soil Susp.
24	7	16	0	--	23.9	--	--	--
24	7	17	0.67	49.0	23.9	44.7	0.0454	89.0
24	7	47	30	32.5	23.9	28.2	0.0078	56.1
24	8	17	60	29.5	23.9	25.2	0.0056	50.2
24	11	17	240	26.0	23.9	21.7	0.0029	43.2
24	3	17	480	23.5	23.9	19.2	0.0021	38.2
25	7	17	1440	14.5	23.8	10.1	0.0013	20.1

Approved By: Ricky Jensen
Ricky Jensen
Resource Chemist

Date: 4/28/02

Soils Analysis

PARTICLE SIZE ANALYSIS
ASTM D-422

Proj. Desc.:	Frontier Fertilizer	Sample I.D.:	D7248-17
Proj. Number:	152293.RJ.04	Client Sample I.D.:	SB4-7
Attention:	Brian Schroth	Date Analyzed:	04/25/02
		Sample Desc:	SOIL

INITIAL SAMPLE MASS	Units			HYGROSCOPIC MOISTURE CONTENT	Units	
Mass Dry Sample	g	50.00		Can No.	--	[ ]
Moisture Cont	%	0.00		Gross Wet Mass	g	50.00
Corr. Dry Mass	g	50.00	(M)	Gross Dry Mass	g	50.00
Pass #10 sieve	%	100.00	(B)	Moisture Mass	g	0.00
Mass of total sample represented				Tare Mass	g	0.00
by mass used in hydrometer test				Dry Soil Mass	g	50.00
W = (M/B) x 100 =		50.00 g		Moisture Content	%	0.00

Hydrometer No.: 87026 Type: 152H
Dispersing Agent: Sodium Hexametaphosphate
Amount Used: 50 ml

Specific Gravity: 2.70

Material Retained On 75 um Sieve After Washing

STD Sieve #	Gross Mass	Tare Mass	Net Mass Indiv.	Retained Accumulative	Percent Retained Individual	Percent Retained Accumulative	STD Sieve	Accum. Percent Passing
20#	428.67	428.07	0.6	--	1.2	1.2	0.850mm	98.8
40#	398.27	394.74	3.5	4.1	7.1	8.3	0.425mm	91.7
80#	371.82	352.92	18.9	23.0	37.8	46.1	0.180mm	53.9
100#	369.91	366.64	3.3	26.3	6.5	52.6	0.150mm	47.4
200#	372.84	365.99	6.8	33.2	13.7	66.3	0.075mm	33.7
<200#	367.66	367.44	0.2	33.4	0.4	66.7	<0.075mm	33.3

Reading Time Day	Hr	Min	Elapsed Time (min)	Hydrom Reading	Temp °C	Corr. Hydrom Reading	Particle Diam. (mm)	Pct Soil Susp.
24	7	17	0	--	23.9	--	--	--
24	7	18	0.67	24.0	23.9	19.7	0.0551	39.1
24	7	48	30	19.0	23.9	14.7	0.0085	29.1
24	8	18	60	18.5	23.9	14.2	0.0060	28.1
24	11	18	240	17.5	23.9	13.2	0.0030	26.2
24	3	18	480	16.5	23.9	12.2	0.0022	24.2
25	7	18	1440	16.0	23.8	11.6	0.0013	23.0

Approved By: Ricky Jensen
Ricky Jensen
Resource Chemist

Date: 4/28/02

Soils Analysis

PARTICLE SIZE ANALYSIS
ASTM D-422

Proj. Desc.:	Frontier Fertilizer	Sample I.D.:	D7248-18
Proj. Number:	152293.RJ.04	Client Sample I.D.:	SB4-8
Attention:	Brian Schroth	Date Analyzed:	04/25/02
		Sample Desc:	SOIL

INITIAL SAMPLE MASS	Units			HYGROSCOPIC MOISTURE CONTENT	Units	
Mass Dry Sample	g	50.00		Can No.	--	[ ]
Moisture Cont	%	0.00		Gross Wet Mass	g	50.00
Corr. Dry Mass	g	50.00	(M)	Gross Dry Mass	g	50.00
Pass #10 sieve	%	100.00	(B)	Moisture Mass	g	0.00
Mass of total sample represented				Tare Mass	g	0.00
by mass used in hydrometer test				Dry Soil Mass	g	50.00
W = (M/B) x 100 =		50.00 g		Moisture Content	%	0.00

Hydrometer No.: 87026 Type: 152H
Dispersing Agent: Sodium Hexametaphosphate
Amount Used: 50 ml

Specific Gravity: 2.69

Material Retained On 75 um Sieve After Washing

STD Sieve #	Gross Mass	Tare Mass	Net Mass Indiv.	Retained Accumulative	Percent Retained Individual	Percent Retained Accumulative	STD Sieve	Accum. Percent Passing
20#	426.52	413.98	12.5	--	25.1	25.1	0.850mm	74.9
40#	406.94	394.41	12.5	25.1	25.1	50.1	0.425mm	49.9
80#	349.96	336.91	13.1	38.1	26.1	76.2	0.180mm	23.8
100#	358.67	357.31	1.4	39.5	2.7	79.0	0.150mm	21.0
200#	311.61	308.81	2.8	42.3	5.6	84.6	0.075mm	15.4
<200#	366.66	366.57	0.1	42.4	0.2	84.7	<0.075mm	15.3

Reading Time Day	Hr	Min	Elapsed Time (min)	Hydrom Reading	Temp °C	Corr. Hydrom Reading	Particle Diam. (mm)	Pct Soil Susp.
24	7	18	0	--	23.9	--	--	--
24	7	19	0.67	15.5	23.9	11.2	0.0583	22.2
24	7	49	30	13.0	23.9	8.7	0.0088	17.3
24	8	19	60	12.5	23.9	8.2	0.0063	16.3
24	11	19	240	12.5	23.9	8.2	0.0031	16.3
24	3	19	480	12.0	23.9	7.7	0.0022	15.3
25	7	19	1440	11.5	23.8	7.1	0.0013	14.1

Approved By: Ricky Jensen
Ricky Jensen
Resource Chemist

Date: 4/28/02

Soils Analysis

PARTICLE SIZE ANALYSIS
ASTM D-422

Proj. Desc.:	Frontier Fertilizer	Sample I.D.:	D7248-19
Proj. Number:	152293.RJ.04	Client Sample I.D.:	SB4-9
Attention:	Brian Schroth	Date Analyzed:	04/25/02
		Sample Desc:	SOIL

INITIAL SAMPLE MASS	Units			HYGROSCOPIC MOISTURE CONTENT	Units	
Mass Dry Sample	g	50.00		Can No.	--	[ ]
Moisture Cont	%	0.00		Gross Wet Mass	g	50.00
Corr. Dry Mass	g	50.00	(M)	Gross Dry Mass	g	50.00
Pass #10 sieve	%	100.00	(B)	Moisture Mass	g	0.00
Mass of total sample represented				Tare Mass	g	0.00
by mass used in hydrometer test				Dry Soil Mass	g	50.00
W = (M/B) x 100 =		50.00 g		Moisture Content	%	0.00

Hydrometer No.: 87026 Type: 152H
Dispersing Agent: Sodium Hexametaphosphate
Amount Used: 50 ml

Specific Gravity: 2.69

Material Retained On 75 um Sieve After Washing

STD Sieve #	Gross Mass	Tare Mass	Net Mass Indiv.	Retained Accumulative	Percent Retained Individual	Percent Retained Accumulative	STD Sieve	Accum. Percent Passing
20#	441.97	428.06	13.9	--	27.8	27.8	0.850mm	72.2
40#	408.51	394.74	13.8	27.7	27.5	55.4	0.425mm	44.6
80#	363.48	353.02	10.5	38.1	20.9	76.3	0.180mm	23.7
100#	367.77	366.67	1.1	39.2	2.2	78.5	0.150mm	21.5
200#	368.25	365.98	2.3	41.5	4.5	83.0	0.075mm	17.0
<200#	367.49	367.46	0.0	41.5	0.1	83.1	<0.075mm	16.9

Reading Time Day	Hr	Min	Elapsed Time (min)	Hydrom Reading	Temp °C	Corr. Hydrom Reading	Particle Diam. (mm)	Pct Soil Susp.
24	7	19	0	--	23.9	--	--	--
24	7	20	0.67	16.5	23.9	12.2	0.0580	24.2
24	7	50	30	13.5	23.9	9.2	0.0088	18.3
24	8	20	60	13.0	23.9	8.7	0.0063	17.3
24	11	20	240	12.5	23.9	8.2	0.0031	16.3
24	3	20	480	12.5	23.9	8.2	0.0022	16.3
25	7	20	1440	12.0	23.8	7.6	0.0013	15.1

Approved By: Ricky Jensen
Ricky Jensen
Resource Chemist

Date: 4/28/02

Soils Analysis

PARTICLE SIZE ANALYSIS
ASTM D-422

Proj. Desc.:	Frontier Fertilizer	Sample I.D.:	D7248-20
Proj. Number:	152293.RJ.04	Client Sample I.D.:	SB4-10
Attention:	Brian Schroth	Date Analyzed:	04/25/02
		Sample Desc:	SOIL

INITIAL SAMPLE MASS	Units			HYGROSCOPIC MOISTURE CONTENT	Units	
Mass Dry Sample	g	50.00		Can No.	--	[ ]
Moisture Cont	%	0.00		Gross Wet Mass	g	50.00
Corr. Dry Mass	g	50.00	(M)	Gross Dry Mass	g	50.00
Pass #10 sieve	%	100.00	(B)	Moisture Mass	g	0.00
Mass of total sample represented				Tare Mass	g	0.00
by mass used in hydrometer test				Dry Soil Mass	g	50.00
W = (M/B) x 100 =		50.00 g		Moisture Content	%	0.00

Hydrometer No.: 87026 Type: 152H
Dispersing Agent: Sodium Hexametaphosphate
Amount Used: 50 ml

Specific Gravity: 2.70

Material Retained On 75 um Sieve After Washing

STD Sieve #	Gross Mass	Tare Mass	Net Mass Indiv.	Retained Accumulative	Percent Retained Individual	Percent Retained Accumulative	STD Sieve	Accum. Percent Passing
20#	430.49	413.99	16.5	--	33.0	33.0	0.850mm	67.0
40#	407.50	394.37	13.1	29.6	26.3	59.3	0.425mm	40.7
80#	344.20	336.94	7.3	36.9	14.5	73.8	0.180mm	26.2
100#	358.45	357.34	1.1	38.0	2.2	76.0	0.150mm	24.0
200#	311.53	308.83	2.7	40.7	5.4	81.4	0.075mm	18.6
<200#	366.62	366.60	0.0	40.7	0.0	81.4	<0.075mm	18.6

Reading Time Day	Hr	Min	Elapsed Time (min)	Hydrom Reading	Temp °C	Corr. Hydrom Reading	Particle Diam. (mm)	Pct Soil Susp.
24	7	20	0	--	23.9	--	--	--
24	7	21	0.67	17.0	23.9	12.7	0.0576	25.2
24	7	51	30	14.5	23.9	10.2	0.0087	20.2
24	8	21	60	14.0	23.9	9.7	0.0062	19.2
24	11	21	240	13.0	23.9	8.7	0.0031	17.2
24	3	21	480	12.5	23.9	8.2	0.0022	16.3
25	7	21	1440	12.0	23.8	7.6	0.0013	15.1

Approved By: Ricky Jensen
Ricky Jensen
Resource Chemist

Date: 4/28/02

Soils Analysis

PARTICLE SIZE ANALYSIS
ASTM D-422

Proj. Desc.:	Frontier Fertilizer	Sample I.D.:	D7248-21
Proj. Number:	152293.RJ.04	Client Sample I.D.:	SB4-11
Attention:	Brian Schroth	Date Analyzed:	04/25/02
		Sample Desc:	SOIL

INITIAL SAMPLE MASS	Units			HYGROSCOPIC MOISTURE CONTENT	Units	
Mass Dry Sample	g	50.00		Can No.	--	[ ]
Moisture Cont	%	0.00		Gross Wet Mass	g	50.00
Corr. Dry Mass	g	50.00	(M)	Gross Dry Mass	g	50.00
Pass #10 sieve	%	100.00	(B)	Moisture Mass	g	0.00
Mass of total sample represented				Tare Mass	g	0.00
by mass used in hydrometer test				Dry Soil Mass	g	50.00
W = (M/B) x 100 =		50.00 g		Moisture Content	%	0.00

Hydrometer No.: 87026 Type: 152H
Dispersing Agent: Sodium Hexametaphosphate
Amount Used: 50 ml

Specific Gravity: 2.66

Material Retained On 75 um Sieve After Washing

STD Sieve #	Gross Mass	Tare Mass	Net Mass Indiv.	Retained Accumulative	Percent Retained Individual	Percent Retained Accumulative	STD Sieve	Accum. Percent Passing
20#	414.04	414.00	0.0	--	0.1	0.1	0.850mm	99.9
40#	394.41	394.40	0.0	0.1	0.0	0.1	0.425mm	99.9
80#	337.61	336.98	0.6	0.7	1.3	1.4	0.180mm	98.6
100#	358.42	357.38	1.0	1.7	2.1	3.4	0.150mm	96.6
200#	314.70	308.83	5.9	7.6	11.7	15.2	0.075mm	84.8
<200#	367.01	366.62	0.4	8.0	0.8	16.0	<0.075mm	84.0

Reading Time Day	Hr	Min	Elapsed Time (min)	Hydrom Reading	Temp °C	Corr. Hydrom Reading	Particle Diam. (mm)	Pct Soil Susp.
24	7	22	0	--	23.9	--	--	--
24	7	23	0.67	47.0	23.9	42.7	0.0466	85.4
24	7	53	30	32.0	23.9	27.7	0.0079	55.4
24	8	23	60	28.5	23.9	24.2	0.0057	48.4
24	11	23	240	25.5	23.9	21.2	0.0029	42.4
24	3	23	480	23.0	23.9	18.7	0.0021	37.4
25	7	23	1440	23.0	23.8	18.6	0.0012	37.2

Approved By: Ricky Jensen
Ricky Jensen
Resource Chemist

Date: 4/28/02

APPENDIX C

QA/QC Sample Analytical Results

Table C-1
QA/QC Sample Analytical Results

Location ID[1]	Sample ID	Sample Date	Method	QA/QC Type[2]	Analyte	Result	Flag[3]	Unit	Matrix
CPT-5	39406	11/28/2001	524.2	EB	Chloroform	0.6	J	ug/L	water
CPT-9	39680	11/05/2001	524.2	EB	Bromoform	1	UJ	ug/L	water
CPT-11	39445	10/31/2001	504.1	EB	1,2-Dibromo-3-chloropropane	0.02	J	ug/L	water
CPT-11	39445	10/31/2001	524.2	EB	1,2,3-Trichlorobenzene	1	UJ	ug/L	water
CPT-16	39482	10/25/2001	524.2	EB	Chloroform	0.6	J	ug/L	water
CPT-16	39482	10/25/2001	524.2	EB	1,2,3-Trichlorobenzene	1	UJ	ug/L	water
CPT-16	39483	10/25/2001	524.2	EB	Bromomethane	1	UJ	ug/L	water
CPT-18	39494	10/29/2001	524.2	FB	1,2,3-Trichlorobenzene	1	UJ	ug/L	water
CPT-21	39507	10/18/2001	524.2	EB	Dichloromethane	1	UJ	ug/L	water
CPT-21	39507	10/18/2001	524.2	EB	Chloroform	0.5	J	ug/L	water
CPT-21	39507	10/18/2001	524.2	EB	Benzene	1	UJ	ug/L	water
CPT-23	39519	10/23/2001	524.2	FB	1,2,3-Trichlorobenzene	1	UJ	ug/L	water
CPT-23	39519	10/23/2001	524.2	FB	Chloroform	0.6	J	ug/L	water
CPT-24	39525	10/24/2001	524.2	EB	1,2,3-Trichlorobenzene	1	UJ	ug/L	water
CPT-25	39531	10/22/2001	524.2	FB	Chloroform	0.6	J	ug/L	water
CPT-40	39855	11/12/2001	524.2	EB	Chloroform	0.6	J	ug/L	water
CPT-1	39792	11/09/2001	TO-15	EB	Chloroethane	0.47		ppbv	air
CPT-1	39792	11/09/2001	TO-15	EB	Trichlorofluoromethane	0.49		ppbv	air
CPT-1	39792	11/09/2001	TO-15	EB	Acetone	4.91		ppbv	air
CPT-1	39792	11/09/2001	TO-15	EB	Methyl tert butyl ether	0.54		ppbv	air
CPT-1	39792	11/09/2001	TO-15	EB	Benzene	0.38		ppbv	air
CPT-1	39792	11/09/2001	TO-15	EB	Toluene	0.80		ppbv	air
CPT-1	39792	11/09/2001	TO-15	EB	m & p-Xylene	0.43		ppbv	air
CPT-1	39792	11/09/2001	TO-15	EB	Styrene	0.36		ppbv	air
CPT-1	39792	11/09/2001	TO-15	EB	Hexachlorobutadiene	0.39		ppbv	air
CPT-2	39798	11/07/2001	TO-15	FB	Chloromethane	0.59		ppbv	air
CPT-2	39798	11/07/2001	TO-15	FB	Acetone	2.96		ppbv	air
CPT-2	39798	11/07/2001	TO-15	FB	Methyl tert butyl ether	0.60		ppbv	air
CPT-2	39798	11/07/2001	TO-15	FB	Toluene	0.79		ppbv	air
CPT-2	39798	11/07/2001	TO-15	FB	m & p-Xylene	0.80		ppbv	air
CPT-2	39798	11/07/2001	TO-15	FB	4-Ethyltoluene	0.46		ppbv	air
CPT-2	39798	11/07/2001	TO-15	FB	1,2,4-Trimethylbenzene	0.51		ppbv	air
CPT-12	39821	11/20/2001	TO-15	EB	Chloromethane	0.57		ppbv	air
CPT-12	39821	11/20/2001	TO-15	EB	Chloroethane	0.64		ppbv	air
CPT-12	39821	11/20/2001	TO-15	EB	Trichlorofluoromethane	0.84		ppbv	air
CPT-12	39821	11/20/2001	TO-15	EB	Acetone	87.94		ppbv	air
CPT-12	39821	11/20/2001	TO-15	EB	Methyl tert butyl ether	0.63		ppbv	air
CPT-12	39821	11/20/2001	TO-15	EB	2-Butanone	2.50		ppbv	air
CPT-12	39821	11/20/2001	TO-15	EB	Benzene	0.86		ppbv	air
CPT-12	39821	11/20/2001	TO-15	EB	Toluene	2.30		ppbv	air
CPT-12	39821	11/20/2001	TO-15	EB	m & p-Xylene	0.72		ppbv	air
CPT-12	39821	11/20/2001	TO-15	EB	4-Ethyltoluene	0.86		ppbv	air
CPT-12	39821	11/20/2001	TO-15	EB	1,2,4-Trichlorobenzene	0.5	B	ppbv	air
CPT-51	CPT-51-2	04/01/2002	524.2	EB	Chloroform	3		ug/L	water
CPT-51	CPT-51-2	04/01/2002	524.2	EB	Carbon Tetrachloride	1.6		ug/L	water
CPT-52	CPT-52-3	04/02/2002	524.2	FB	Chloroform	0.8	J	ug/L	water
CPT-54	CPT-54-4	04/03/2002	524.2	EB	Dichlorodifluoromethane	1	UJ	ug/L	water
CPT-54	CPT-54-4	04/03/2002	524.2	EB	Chloroform	0.7	J	ug/L	water
CPT-56	CPT-56-3	04/05/2002	524.2	FB	Dichlorodifluoromethane	1	UJ	ug/L	water
CPT-58	CPT-58-4	04/03/2002	524.2	FB	Dichlorodifluoromethane	1	UJ	ug/L	water
CPT-59	CPT-59-3	04/04/2002	524.2	EB	Dichlorodifluoromethane	1	UJ	ug/L	water
SB-1	Y0EJ1	04/08/2002	VOCs	FB	Toluene	0.1	J	ug/L	water
SB-1	Y0EJ1	04/08/2002	VOCs	FB	Cyclohexane	0.1	J	ug/L	water
SB-1	Y0EJ1	04/08/2002	VOCs	FB	Chloroform	0.2	J	ug/L	water
SB-1	Y0EK8	04/09/2002	VOCs	FB	Chloroform	0.2	J	ug/L	water
SB-1	Y0G31	04/05/2002	VOCs	FB	Chloroform	0.3	J	ug/L	water
SB-1	Y0G31	04/05/2002	VOCs	FB	Chloromethane	0.1	J	ug/L	water
SB-1	Y0EJ1	04/08/2002	VOCs	FB	Dichloromethane	0.3	J	ug/L	water
SB-1	Y0EK8	04/09/2002	VOCs	FB	Dichloromethane	0.2	J	ug/L	water
SB-2	Y0EL9	04/17/2002	VOCs	EB	Chloroform	1		ug/L	water
SB-2	Y0EM9	04/18/2002	VOCs	EB	Chloroform	1		ug/L	water
SB-2	Y0EL9	04/17/2002	VOCs	EB	4-Methyl-2-pentanone	0.4	J	ug/L	water
SB-2	Y0EM9	04/18/2002	VOCs	EB	4-Methyl-2-pentanone	0.4	J	ug/L	water

Table C-1
QA/QC Sample Analytical Results

Location ID[1]	Sample ID	Sample Date	Method	QA/QC Type[2]	Analyte	Result	Flag[3]	Unit	Matrix
SB-2	Y0EL9	04/17/2002	VOCs	EB	Dichloromethane	0.3	J	ug/L	water
SB-2	Y0EM9	04/18/2002	VOCs	EB	Dichloromethane	0.3	J	ug/L	water
SB-2	Y0EL4	04/19/2002	VOCs	FB	4-Methyl-2-pentanone	0.2	J	ug/L	water
SB-2	Y0EL4	04/19/2002	VOCs	FB	Chloroform	1	J	ug/L	water
SB-2	Y0EL4	04/19/2002	VOCs	FB	Dichloromethane	0.2	J	ug/L	water
SB-3	Y0EQ1	04/15/2002	VOCs	FB	Chloroform	0.2	J	ug/L	water
SB-3	Y0EQ1	04/15/2002	VOCs	FB	Chloromethane	0.1	J	ug/L	water
SB-3	Y0ES8	04/16/2002	VOCs	FB	Chloroform	0.2	J	ug/L	water
SB-4	Y0EY0	12-Apr-02	VOCs	EB	Chloroform	0.2	J	ug/L	water
SB-4	Y0ET4	10-Apr-02	VOCs	EB	Chloroform	0.2	J	ug/L	water
SB-4	Y0ET4	10-Apr-02	VOCs	EB	Dichloromethane	0.2	J	ug/L	water
SB-4	Y0ET4	10-Apr-02	VOCs	EB	Trichloroethene	0.1	J	ug/L	water
SB-4	Y0EX0	11-Apr-02	VOCs	FB	Chloroform	0.3	J	ug/L	water
SB-4	Y0EX0	11-Apr-02	VOCs	FB	Chloromethane	0.1	J	ug/L	water
904	040302	04/03/2002	524.2	TB	Chloroform	1		ug/L	water
906	Y0C63	05-Dec-01	Pest/PCBs	EB	Heptachlor epoxide	0.01		ug/L	water
906	Y0C64	05-Dec-01	Pest/PCBs	EB	Heptachlor epoxide	0.01		ug/L	water
906	Y0C65	05-Dec-01	Pest/PCBs	EB	Heptachlor epoxide	0.01		ug/L	water
906	Y0C63	05-Dec-01	Pest/PCBs	EB	Endosulfan sulfate	0.02		ug/L	water
906	Y0C64	05-Dec-01	Pest/PCBs	EB	Endosulfan sulfate	0.02		ug/L	water
906	Y0C65	05-Dec-01	Pest/PCBs	EB	Endosulfan sulfate	0.02		ug/L	water
906	Y0C63	05-Dec-01	Pest/PCBs	EB	gamma-Chlordane	0.01		ug/L	water
906	Y0C64	05-Dec-01	Pest/PCBs	EB	gamma-Chlordane	0.01		ug/L	water
906	Y0C65	05-Dec-01	Pest/PCBs	EB	gamma-Chlordane	0.01		ug/L	water
906	Y0C63	05-Dec-01	Pest/PCBs	EB	Aldrin	0.01		ug/L	water
906	Y0C64	05-Dec-01	Pest/PCBs	EB	Aldrin	0.01		ug/L	water
906	Y0C65	05-Dec-01	Pest/PCBs	EB	Aldrin	0.01		ug/L	water
906	Y0C63	05-Dec-01	Pest/PCBs	EB	alpha-BHC	0.01		ug/L	water
906	Y0C64	05-Dec-01	Pest/PCBs	EB	alpha-BHC	0.01		ug/L	water
906	Y0C65	05-Dec-01	Pest/PCBs	EB	alpha-BHC	0.01		ug/L	water
906	Y0C63	05-Dec-01	Pest/PCBs	EB	beta-BHC	0.01		ug/L	water
906	Y0C64	05-Dec-01	Pest/PCBs	EB	beta-BHC	0.01		ug/L	water
906	Y0C65	05-Dec-01	Pest/PCBs	EB	beta-BHC	0.01		ug/L	water
906	Y0C63	05-Dec-01	Pest/PCBs	EB	delta-BHC	0.01		ug/L	water
906	Y0C64	05-Dec-01	Pest/PCBs	EB	delta-BHC	0.01		ug/L	water
906	Y0C65	05-Dec-01	Pest/PCBs	EB	delta-BHC	0.01		ug/L	water
906	Y0C63	05-Dec-01	Pest/PCBs	EB	Endosulfan II	0.02		ug/L	water
906	Y0C64	05-Dec-01	Pest/PCBs	EB	Endosulfan II	0.02		ug/L	water
906	Y0C65	05-Dec-01	Pest/PCBs	EB	Endosulfan II	0.02		ug/L	water
906	Y0C63	05-Dec-01	Pest/PCBs	EB	4,4'-DDT	0.02		ug/L	water
906	Y0C64	05-Dec-01	Pest/PCBs	EB	4,4'-DDT	0.02		ug/L	water
906	Y0C65	05-Dec-01	Pest/PCBs	EB	4,4'-DDT	0.02		ug/L	water
906	Y0C63	05-Dec-01	Pest/PCBs	EB	alpha-Chlordane	0.01		ug/L	water
906	Y0C64	05-Dec-01	Pest/PCBs	EB	alpha-Chlordane	0.01		ug/L	water
906	Y0C65	05-Dec-01	Pest/PCBs	EB	alpha-Chlordane	0.01		ug/L	water
906	Y0C63	05-Dec-01	Pest/PCBs	EB	Endrin ketone	0.02		ug/L	water
906	Y0C64	05-Dec-01	Pest/PCBs	EB	Endrin ketone	0.02		ug/L	water
906	Y0C65	05-Dec-01	Pest/PCBs	EB	Endrin ketone	0.02		ug/L	water
906	Y0C63	05-Dec-01	Pest/PCBs	EB	gamma-BHC (Lindane)	0.01		ug/L	water
906	Y0C64	05-Dec-01	Pest/PCBs	EB	gamma-BHC (Lindane)	0.01		ug/L	water
906	Y0C65	05-Dec-01	Pest/PCBs	EB	gamma-BHC (Lindane)	0.01		ug/L	water
906	Y0C63	05-Dec-01	Pest/PCBs	EB	Dieldrin	0.02		ug/L	water
906	Y0C64	05-Dec-01	Pest/PCBs	EB	Dieldrin	0.02		ug/L	water
906	Y0C65	05-Dec-01	Pest/PCBs	EB	Dieldrin	0.02		ug/L	water
906	Y0C63	05-Dec-01	Pest/PCBs	EB	Endrin	0.02		ug/L	water
906	Y0C64	05-Dec-01	Pest/PCBs	EB	Endrin	0.02		ug/L	water
906	Y0C65	05-Dec-01	Pest/PCBs	EB	Endrin	0.02		ug/L	water
906	Y0C63	05-Dec-01	Pest/PCBs	EB	Methoxychlor	0.1		ug/L	water
906	Y0C64	05-Dec-01	Pest/PCBs	EB	Methoxychlor	0.1		ug/L	water
906	Y0C65	05-Dec-01	Pest/PCBs	EB	Methoxychlor	0.1		ug/L	water
906	Y0C63	05-Dec-01	Pest/PCBs	EB	4,4'-DDD	0.02		ug/L	water
906	Y0C64	05-Dec-01	Pest/PCBs	EB	4,4'-DDD	0.02		ug/L	water
906	Y0C65	05-Dec-01	Pest/PCBs	EB	4,4'-DDD	0.02		ug/L	water

Table C-1
QA/QC Sample Analytical Results

Location ID[1]	Sample ID	Sample Date	Method	QA/QC Type[2]	Analyte	Result	Flag[3]	Unit	Matrix
906	Y0C63	05-Dec-01	Pest/PCBs	EB	4,4'-DDE	0.02		ug/L	water
906	Y0C64	05-Dec-01	Pest/PCBs	EB	4,4'-DDE	0.02		ug/L	water
906	Y0C65	05-Dec-01	Pest/PCBs	EB	4,4'-DDE	0.02		ug/L	water
906	Y0C63	05-Dec-01	Pest/PCBs	EB	Endrin aldehyde	0.02		ug/L	water
906	Y0C64	05-Dec-01	Pest/PCBs	EB	Endrin aldehyde	0.02		ug/L	water
906	Y0C65	05-Dec-01	Pest/PCBs	EB	Endrin aldehyde	0.02		ug/L	water
906	Y0C63	05-Dec-01	Pest/PCBs	EB	Heptachlor	0.01		ug/L	water
906	Y0C64	05-Dec-01	Pest/PCBs	EB	Heptachlor	0.01		ug/L	water
906	Y0C65	05-Dec-01	Pest/PCBs	EB	Heptachlor	0.01		ug/L	water
906	Y0C63	05-Dec-01	Pest/PCBs	EB	Endosulfan I	0.01		ug/L	water
906	Y0C64	05-Dec-01	Pest/PCBs	EB	Endosulfan I	0.01		ug/L	water
906	Y0C65	05-Dec-01	Pest/PCBs	EB	Endosulfan I	0.01		ug/L	water
906	Y0C63	05-Dec-01	VOCs	EB	Chloroform	1		ug/L	water
906	Y0C64	05-Dec-01	VOCs	EB	Chloroform	1		ug/L	water
906	Y0C65	05-Dec-01	VOCs	EB	Chloroform	0.9		ug/L	water
906	Y0C63	05-Dec-01	VOCs	EB	Xylenes (total)	0.5		ug/L	water
906	Y0C64	05-Dec-01	VOCs	EB	Xylenes (total)	0.5		ug/L	water
906	Y0C65	05-Dec-01	VOCs	EB	Xylenes (total)	0.5		ug/L	water
906	Y0C63	05-Dec-01	VOCs	EB	Ethylbenzene	0.5		ug/L	water
906	Y0C64	05-Dec-01	VOCs	EB	Ethylbenzene	0.5		ug/L	water
906	Y0C65	05-Dec-01	VOCs	EB	Ethylbenzene	0.5		ug/L	water
906	Y0C63	05-Dec-01	VOCs	EB	Styrene	0.5		ug/L	water
906	Y0C64	05-Dec-01	VOCs	EB	Styrene	0.5		ug/L	water
906	Y0C65	05-Dec-01	VOCs	EB	Styrene	0.5		ug/L	water
906	Y0C63	05-Dec-01	VOCs	EB	cis-1,3-Dichloropropene	0.5		ug/L	water
906	Y0C64	05-Dec-01	VOCs	EB	cis-1,3-Dichloropropene	0.5		ug/L	water
906	Y0C65	05-Dec-01	VOCs	EB	cis-1,3-Dichloropropene	0.5		ug/L	water
906	Y0C63	05-Dec-01	VOCs	EB	trans-1,3-Dichloropropene	0.5		ug/L	water
906	Y0C64	05-Dec-01	VOCs	EB	trans-1,3-Dichloropropene	0.5		ug/L	water
906	Y0C65	05-Dec-01	VOCs	EB	trans-1,3-Dichloropropene	0.5		ug/L	water
906	Y0C63	05-Dec-01	VOCs	EB	1,4-Dichlorobenzene	0.5		ug/L	water
906	Y0C64	05-Dec-01	VOCs	EB	1,4-Dichlorobenzene	0.5		ug/L	water
906	Y0C65	05-Dec-01	VOCs	EB	1,4-Dichlorobenzene	0.5		ug/L	water
906	Y0C63	05-Dec-01	VOCs	EB	1,2-Dibromoethane (EDB)	0.5		ug/L	water
906	Y0C64	05-Dec-01	VOCs	EB	1,2-Dibromoethane (EDB)	0.5		ug/L	water
906	Y0C65	05-Dec-01	VOCs	EB	1,2-Dibromoethane (EDB)	0.5		ug/L	water
906	Y0C63	05-Dec-01	VOCs	EB	1,2-Dichloroethane	0.5		ug/L	water
906	Y0C64	05-Dec-01	VOCs	EB	1,2-Dichloroethane	0.5		ug/L	water
906	Y0C65	05-Dec-01	VOCs	EB	1,2-Dichloroethane	0.5		ug/L	water
906	Y0C63	05-Dec-01	VOCs	EB	4-Methyl-2-pentanone	5		ug/L	water
906	Y0C64	05-Dec-01	VOCs	EB	4-Methyl-2-pentanone	5		ug/L	water
906	Y0C65	05-Dec-01	VOCs	EB	4-Methyl-2-pentanone	5		ug/L	water
906	Y0C63	05-Dec-01	VOCs	EB	Methylcyclohexane	0.5		ug/L	water
906	Y0C64	05-Dec-01	VOCs	EB	Methylcyclohexane	0.5		ug/L	water
906	Y0C65	05-Dec-01	VOCs	EB	Methylcyclohexane	0.5		ug/L	water
906	Y0C63	05-Dec-01	VOCs	EB	Toluene	0.5		ug/L	water
906	Y0C64	05-Dec-01	VOCs	EB	Toluene	0.5		ug/L	water
906	Y0C65	05-Dec-01	VOCs	EB	Toluene	0.5		ug/L	water
906	Y0C63	05-Dec-01	VOCs	EB	Chlorobenzene	0.5		ug/L	water
906	Y0C64	05-Dec-01	VOCs	EB	Chlorobenzene	0.5		ug/L	water
906	Y0C65	05-Dec-01	VOCs	EB	Chlorobenzene	0.5		ug/L	water
906	Y0C63	05-Dec-01	VOCs	EB	Cyclohexane	0.5		ug/L	water
906	Y0C64	05-Dec-01	VOCs	EB	Cyclohexane	0.5		ug/L	water
906	Y0C65	05-Dec-01	VOCs	EB	Cyclohexane	0.5		ug/L	water
906	Y0C63	05-Dec-01	VOCs	EB	1,2,4-Trichlorobenzene	0.5		ug/L	water
906	Y0C64	05-Dec-01	VOCs	EB	1,2,4-Trichlorobenzene	0.5		ug/L	water
906	Y0C65	05-Dec-01	VOCs	EB	1,2,4-Trichlorobenzene	0.5		ug/L	water
906	Y0C63	05-Dec-01	VOCs	EB	Dibromochloromethane	0.5		ug/L	water
906	Y0C64	05-Dec-01	VOCs	EB	Dibromochloromethane	0.5		ug/L	water
906	Y0C65	05-Dec-01	VOCs	EB	Dibromochloromethane	0.5		ug/L	water
906	Y0C63	05-Dec-01	VOCs	EB	Tetrachloroethene	0.5		ug/L	water
906	Y0C64	05-Dec-01	VOCs	EB	Tetrachloroethene	0.5		ug/L	water
906	Y0C65	05-Dec-01	VOCs	EB	Tetrachloroethene	0.5		ug/L	water

Table C-1
QA/QC Sample Analytical Results

Location ID[1]	Sample ID	Sample Date	Method	QA/QC Type[2]	Analyte	Result	Flag[3]	Unit	Matrix
906	Y0C63	05-Dec-01	VOCs	EB	cis-1,2-Dichloroethene	0.5		ug/L	water
906	Y0C64	05-Dec-01	VOCs	EB	cis-1,2-Dichloroethene	0.5		ug/L	water
906	Y0C65	05-Dec-01	VOCs	EB	cis-1,2-Dichloroethene	0.5		ug/L	water
906	Y0C63	05-Dec-01	VOCs	EB	trans-1,2-Dichloroethene	0.5		ug/L	water
906	Y0C64	05-Dec-01	VOCs	EB	trans-1,2-Dichloroethene	0.5		ug/L	water
906	Y0C65	05-Dec-01	VOCs	EB	trans-1,2-Dichloroethene	0.5		ug/L	water
906	Y0C63	05-Dec-01	VOCs	EB	Methyl t-butyl ether (MTBE)	0.5		ug/L	water
906	Y0C64	05-Dec-01	VOCs	EB	Methyl t-butyl ether (MTBE)	0.5		ug/L	water
906	Y0C65	05-Dec-01	VOCs	EB	Methyl t-butyl ether (MTBE)	0.5		ug/L	water
906	Y0C63	05-Dec-01	VOCs	EB	1,3-Dichlorobenzene	0.5		ug/L	water
906	Y0C64	05-Dec-01	VOCs	EB	1,3-Dichlorobenzene	0.5		ug/L	water
906	Y0C65	05-Dec-01	VOCs	EB	1,3-Dichlorobenzene	0.5		ug/L	water
906	Y0C63	05-Dec-01	VOCs	EB	Carbon tetrachloride (CCL4)	0.5		ug/L	water
906	Y0C64	05-Dec-01	VOCs	EB	Carbon tetrachloride (CCL4)	0.5		ug/L	water
906	Y0C65	05-Dec-01	VOCs	EB	Carbon tetrachloride (CCL4)	0.5		ug/L	water
906	Y0C63	05-Dec-01	VOCs	EB	2-Hexanone	5		ug/L	water
906	Y0C64	05-Dec-01	VOCs	EB	2-Hexanone	5		ug/L	water
906	Y0C65	05-Dec-01	VOCs	EB	2-Hexanone	5		ug/L	water
906	Y0C63	05-Dec-01	VOCs	EB	Acetone	5		ug/L	water
906	Y0C63	05-Dec-01	VOCs	EB	Chloroform	1		ug/L	water
906	Y0C64	05-Dec-01	VOCs	EB	Chloroform	1		ug/L	water
906	Y0C65	05-Dec-01	VOCs	EB	Chloroform	0.9		ug/L	water
906	Y0C63	05-Dec-01	VOCs	EB	Benzene	0.5		ug/L	water
906	Y0C64	05-Dec-01	VOCs	EB	Benzene	0.5		ug/L	water
906	Y0C65	05-Dec-01	VOCs	EB	Benzene	0.5		ug/L	water
906	Y0C63	05-Dec-01	VOCs	EB	1,1,1-Trichloroethane	0.5		ug/L	water
906	Y0C64	05-Dec-01	VOCs	EB	1,1,1-Trichloroethane	0.5		ug/L	water
906	Y0C65	05-Dec-01	VOCs	EB	1,1,1-Trichloroethane	0.5		ug/L	water
906	Y0C63	05-Dec-01	VOCs	EB	Bromomethane	0.5		ug/L	water
906	Y0C64	05-Dec-01	VOCs	EB	Bromomethane	0.5		ug/L	water
906	Y0C65	05-Dec-01	VOCs	EB	Bromomethane	0.5		ug/L	water
906	Y0C63	05-Dec-01	VOCs	EB	Chloromethane	0.5		ug/L	water
906	Y0C65	05-Dec-01	VOCs	EB	Chloromethane	0.5		ug/L	water
906	Y0C63	05-Dec-01	VOCs	EB	Bromochloromethane	0.5		ug/L	water
906	Y0C64	05-Dec-01	VOCs	EB	Bromochloromethane	0.5		ug/L	water
906	Y0C65	05-Dec-01	VOCs	EB	Bromochloromethane	0.5		ug/L	water
906	Y0C63	05-Dec-01	VOCs	EB	Chloroethane	0.5		ug/L	water
906	Y0C64	05-Dec-01	VOCs	EB	Chloroethane	0.5		ug/L	water
906	Y0C65	05-Dec-01	VOCs	EB	Chloroethane	0.5		ug/L	water
906	Y0C63	05-Dec-01	VOCs	EB	Vinyl Chloride	0.5		ug/L	water
906	Y0C64	05-Dec-01	VOCs	EB	Vinyl Chloride	0.5		ug/L	water
906	Y0C65	05-Dec-01	VOCs	EB	Vinyl Chloride	0.5		ug/L	water
906	Y0C63	05-Dec-01	VOCs	EB	Carbon Disulfide	0.5		ug/L	water
906	Y0C64	05-Dec-01	VOCs	EB	Carbon Disulfide	0.5		ug/L	water
906	Y0C65	05-Dec-01	VOCs	EB	Carbon Disulfide	0.5		ug/L	water
906	Y0C63	05-Dec-01	VOCs	EB	Bromoform	0.5		ug/L	water
906	Y0C64	05-Dec-01	VOCs	EB	Bromoform	0.5		ug/L	water
906	Y0C65	05-Dec-01	VOCs	EB	Bromoform	0.5		ug/L	water
906	Y0C63	05-Dec-01	VOCs	EB	Bromodichloromethane	0.5		ug/L	water
906	Y0C64	05-Dec-01	VOCs	EB	Bromodichloromethane	0.5		ug/L	water
906	Y0C65	05-Dec-01	VOCs	EB	Bromodichloromethane	0.5		ug/L	water
906	Y0C63	05-Dec-01	VOCs	EB	1,1-Dichloroethane	0.5		ug/L	water
906	Y0C64	05-Dec-01	VOCs	EB	1,1-Dichloroethane	0.5		ug/L	water
906	Y0C65	05-Dec-01	VOCs	EB	1,1-Dichloroethane	0.5		ug/L	water
906	Y0C65	05-Dec-01	VOCs	EB	1,1-Dichloroethene	0.5		ug/L	water
906	Y0C63	05-Dec-01	VOCs	EB	1,1-Dichloroethene	0.5		ug/L	water
906	Y0C64	05-Dec-01	VOCs	EB	1,1-Dichloroethene	0.5		ug/L	water
906	Y0C63	05-Dec-01	VOCs	EB	Trichlorofluoromethane	0.5		ug/L	water
906	Y0C64	05-Dec-01	VOCs	EB	Trichlorofluoromethane	0.5		ug/L	water
906	Y0C65	05-Dec-01	VOCs	EB	Trichlorofluoromethane	0.5		ug/L	water
906	Y0C63	05-Dec-01	VOCs	EB	Dichlorodifluoromethane	0.5		ug/L	water
906	Y0C64	05-Dec-01	VOCs	EB	Dichlorodifluoromethane	0.5		ug/L	water
906	Y0C65	05-Dec-01	VOCs	EB	Dichlorodifluoromethane	0.5		ug/L	water

Table C-1
QA/QC Sample Analytical Results

Location ID[1]	Sample ID	Sample Date	Method	QA/QC Type[2]	Analyte	Result	Flag[3]	Unit	Matrix
906	Y0C63	05-Dec-01	VOCs	EB	1,1,2-Trichloro-1,2,2-trifluoroethane	0.5		ug/L	water
906	Y0C64	05-Dec-01	VOCs	EB	1,1,2-Trichloro-1,2,2-trifluoroethane	0.5		ug/L	water
906	Y0C65	05-Dec-01	VOCs	EB	1,1,2-Trichloro-1,2,2-trifluoroethane	0.5		ug/L	water
906	Y0C63	05-Dec-01	VOCs	EB	1,2-Dichloropropane (DCP)	0.5		ug/L	water
906	Y0C64	05-Dec-01	VOCs	EB	1,2-Dichloropropane (DCP)	0.5		ug/L	water
906	Y0C65	05-Dec-01	VOCs	EB	1,2-Dichloropropane (DCP)	0.5		ug/L	water
906	Y0C63	05-Dec-01	VOCs	EB	2-Butanone	5		ug/L	water
906	Y0C64	05-Dec-01	VOCs	EB	2-Butanone	5		ug/L	water
906	Y0C65	05-Dec-01	VOCs	EB	2-Butanone	5		ug/L	water
906	Y0C63	05-Dec-01	VOCs	EB	1,1,2-Trichloroethane	0.5		ug/L	water
906	Y0C64	05-Dec-01	VOCs	EB	1,1,2-Trichloroethane	0.5		ug/L	water
906	Y0C65	05-Dec-01	VOCs	EB	1,1,2-Trichloroethane	0.5		ug/L	water
906	Y0C63	05-Dec-01	VOCs	EB	Trichloroethene	0.5		ug/L	water
906	Y0C64	05-Dec-01	VOCs	EB	Trichloroethene	0.5		ug/L	water
906	Y0C65	05-Dec-01	VOCs	EB	Trichloroethene	0.5		ug/L	water
906	Y0C63	05-Dec-01	VOCs	EB	1,1,2,2-Tetrachloroethane	0.5		ug/L	water
906	Y0C64	05-Dec-01	VOCs	EB	1,1,2,2-Tetrachloroethane	0.5		ug/L	water
906	Y0C65	05-Dec-01	VOCs	EB	1,1,2,2-Tetrachloroethane	0.5		ug/L	water
906	Y0C63	05-Dec-01	VOCs	EB	1,2,3-Trichlorobenzene	0.5		ug/L	water
906	Y0C64	05-Dec-01	VOCs	EB	1,2,3-Trichlorobenzene	0.5		ug/L	water
906	Y0C65	05-Dec-01	VOCs	EB	1,2,3-Trichlorobenzene	0.5		ug/L	water
906	Y0C63	05-Dec-01	VOCs	EB	1,2-Dichlorobenzene	0.5		ug/L	water
906	Y0C64	05-Dec-01	VOCs	EB	1,2-Dichlorobenzene	0.5		ug/L	water
906	Y0C65	05-Dec-01	VOCs	EB	1,2-Dichlorobenzene	0.5		ug/L	water
906	Y0C63	05-Dec-01	VOCs	EB	1,2-Dibromo-3-chloropropane (DBCP)	0.5		ug/L	water
906	Y0C64	05-Dec-01	VOCs	EB	1,2-Dibromo-3-chloropropane (DBCP)	0.5		ug/L	water
906	Y0C65	05-Dec-01	VOCs	EB	1,2-Dibromo-3-chloropropane (DBCP)	0.5		ug/L	water
906	Y0C63	05-Dec-01	VOCs	EB	Isopropylbenzene	0.5		ug/L	water
906	Y0C64	05-Dec-01	VOCs	EB	Isopropylbenzene	0.5		ug/L	water
906	Y0C65	05-Dec-01	VOCs	EB	Isopropylbenzene	0.5		ug/L	water
906	Y0C64	05-Dec-01	VOCs	EB	Chloromethane	0.3	J	ug/L	water
906	Y0C64	05-Dec-01	VOCs	EB	Acetone	1	J	ug/L	water
906	Y0C65	05-Dec-01	VOCs	EB	Acetone	3	J	ug/L	water
906	Y0C64	05-Dec-01	VOCs	EB	Acetone	1	J	ug/L	water
906	Y0C65	05-Dec-01	VOCs	EB	Acetone	3	J	ug/L	water
906	Y0C64	05-Dec-01	VOCs	EB	Chloromethane	0.3	J	ug/L	water
906	Y0C66	06-Dec-01	Pest/PCBs	EB	Heptachlor epoxide	0.01		ug/L	water
906	Y0C67	06-Dec-01	Pest/PCBs	EB	Heptachlor epoxide	0.01		ug/L	water
906	Y0C68	06-Dec-01	Pest/PCBs	EB	Heptachlor epoxide	0.01		ug/L	water
906	Y0C66	06-Dec-01	Pest/PCBs	EB	Endosulfan sulfate	0.02		ug/L	water
906	Y0C67	06-Dec-01	Pest/PCBs	EB	Endosulfan sulfate	0.02		ug/L	water
906	Y0C68	06-Dec-01	Pest/PCBs	EB	Endosulfan sulfate	0.02		ug/L	water
906	Y0C66	06-Dec-01	Pest/PCBs	EB	gamma-Chlordane	0.01		ug/L	water
906	Y0C67	06-Dec-01	Pest/PCBs	EB	gamma-Chlordane	0.01		ug/L	water
906	Y0C68	06-Dec-01	Pest/PCBs	EB	gamma-Chlordane	0.01		ug/L	water
906	Y0C66	06-Dec-01	Pest/PCBs	EB	Aldrin	0.01		ug/L	water
906	Y0C67	06-Dec-01	Pest/PCBs	EB	Aldrin	0.01		ug/L	water
906	Y0C68	06-Dec-01	Pest/PCBs	EB	Aldrin	0.01		ug/L	water
906	Y0C66	06-Dec-01	Pest/PCBs	EB	alpha-BHC	0.01		ug/L	water
906	Y0C67	06-Dec-01	Pest/PCBs	EB	alpha-BHC	0.01		ug/L	water
906	Y0C68	06-Dec-01	Pest/PCBs	EB	alpha-BHC	0.01		ug/L	water
906	Y0C66	06-Dec-01	Pest/PCBs	EB	beta-BHC	0.01		ug/L	water
906	Y0C67	06-Dec-01	Pest/PCBs	EB	beta-BHC	0.01		ug/L	water
906	Y0C68	06-Dec-01	Pest/PCBs	EB	beta-BHC	0.01		ug/L	water
906	Y0C66	06-Dec-01	Pest/PCBs	EB	delta-BHC	0.01		ug/L	water
906	Y0C67	06-Dec-01	Pest/PCBs	EB	delta-BHC	0.01		ug/L	water
906	Y0C68	06-Dec-01	Pest/PCBs	EB	delta-BHC	0.01		ug/L	water
906	Y0C66	06-Dec-01	Pest/PCBs	EB	Endosulfan II	0.02		ug/L	water
906	Y0C67	06-Dec-01	Pest/PCBs	EB	Endosulfan II	0.02		ug/L	water
906	Y0C68	06-Dec-01	Pest/PCBs	EB	Endosulfan II	0.02		ug/L	water
906	Y0C66	06-Dec-01	Pest/PCBs	EB	4,4'-DDT	0.02		ug/L	water
906	Y0C67	06-Dec-01	Pest/PCBs	EB	4,4'-DDT	0.02		ug/L	water
906	Y0C68	06-Dec-01	Pest/PCBs	EB	4,4'-DDT	0.02		ug/L	water

Table C-1
QA/QC Sample Analytical Results

Location ID[1]	Sample ID	Sample Date	Method	QA/QC Type[2]	Analyte	Result	Flag[3]	Unit	Matrix
906	Y0C66	06-Dec-01	Pest/PCBs	EB	alpha-Chlordane	0.01		ug/L	water
906	Y0C67	06-Dec-01	Pest/PCBs	EB	alpha-Chlordane	0.01		ug/L	water
906	Y0C68	06-Dec-01	Pest/PCBs	EB	alpha-Chlordane	0.01		ug/L	water
906	Y0C66	06-Dec-01	Pest/PCBs	EB	Endrin ketone	0.02		ug/L	water
906	Y0C67	06-Dec-01	Pest/PCBs	EB	Endrin ketone	0.02		ug/L	water
906	Y0C68	06-Dec-01	Pest/PCBs	EB	Endrin ketone	0.02		ug/L	water
906	Y0C68	06-Dec-01	Pest/PCBs	EB	gamma-BHC (Lindane)	0.01		ug/L	water
906	Y0C66	06-Dec-01	Pest/PCBs	EB	gamma-BHC (Lindane)	0.01		ug/L	water
906	Y0C67	06-Dec-01	Pest/PCBs	EB	gamma-BHC (Lindane)	0.01		ug/L	water
906	Y0C66	06-Dec-01	Pest/PCBs	EB	Dieldrin	0.02		ug/L	water
906	Y0C67	06-Dec-01	Pest/PCBs	EB	Dieldrin	0.02		ug/L	water
906	Y0C68	06-Dec-01	Pest/PCBs	EB	Dieldrin	0.02		ug/L	water
906	Y0C66	06-Dec-01	Pest/PCBs	EB	Endrin	0.02		ug/L	water
906	Y0C67	06-Dec-01	Pest/PCBs	EB	Endrin	0.02		ug/L	water
906	Y0C68	06-Dec-01	Pest/PCBs	EB	Endrin	0.02		ug/L	water
906	Y0C66	06-Dec-01	Pest/PCBs	EB	Methoxychlor	0.1		ug/L	water
906	Y0C67	06-Dec-01	Pest/PCBs	EB	Methoxychlor	0.1		ug/L	water
906	Y0C68	06-Dec-01	Pest/PCBs	EB	Methoxychlor	0.1		ug/L	water
906	Y0C66	06-Dec-01	Pest/PCBs	EB	4,4'-DDD	0.02		ug/L	water
906	Y0C67	06-Dec-01	Pest/PCBs	EB	4,4'-DDD	0.02		ug/L	water
906	Y0C68	06-Dec-01	Pest/PCBs	EB	4,4'-DDD	0.02		ug/L	water
906	Y0C66	06-Dec-01	Pest/PCBs	EB	4,4'-DDE	0.02		ug/L	water
906	Y0C67	06-Dec-01	Pest/PCBs	EB	4,4'-DDE	0.02		ug/L	water
906	Y0C68	06-Dec-01	Pest/PCBs	EB	4,4'-DDE	0.02		ug/L	water
906	Y0C66	06-Dec-01	Pest/PCBs	EB	Endrin aldehyde	0.02		ug/L	water
906	Y0C67	06-Dec-01	Pest/PCBs	EB	Endrin aldehyde	0.02		ug/L	water
906	Y0C68	06-Dec-01	Pest/PCBs	EB	Endrin aldehyde	0.02		ug/L	water
906	Y0C66	06-Dec-01	Pest/PCBs	EB	Heptachlor	0.01		ug/L	water
906	Y0C67	06-Dec-01	Pest/PCBs	EB	Heptachlor	0.01		ug/L	water
906	Y0C68	06-Dec-01	Pest/PCBs	EB	Heptachlor	0.01		ug/L	water
906	Y0C66	06-Dec-01	Pest/PCBs	EB	Endosulfan I	0.01		ug/L	water
906	Y0C67	06-Dec-01	Pest/PCBs	EB	Endosulfan I	0.01		ug/L	water
906	Y0C68	06-Dec-01	Pest/PCBs	EB	Endosulfan I	0.01		ug/L	water
906	Y0C66	06-Dec-01	VOCs	EB	Chloroform	1		ug/L	water
906	Y0C67	06-Dec-01	VOCs	EB	Chloroform	1		ug/L	water
906	Y0C68	06-Dec-01	VOCs	EB	Chloroform	1		ug/L	water
906	Y0C66	06-Dec-01	VOCs	EB	Xylenes (total)	0.5		ug/L	water
906	Y0C67	06-Dec-01	VOCs	EB	Xylenes (total)	0.5		ug/L	water
906	Y0C68	06-Dec-01	VOCs	EB	Xylenes (total)	0.5		ug/L	water
906	Y0C66	06-Dec-01	VOCs	EB	Ethylbenzene	0.5		ug/L	water
906	Y0C67	06-Dec-01	VOCs	EB	Ethylbenzene	0.5		ug/L	water
906	Y0C68	06-Dec-01	VOCs	EB	Ethylbenzene	0.5		ug/L	water
906	Y0C66	06-Dec-01	VOCs	EB	Styrene	0.5		ug/L	water
906	Y0C67	06-Dec-01	VOCs	EB	Styrene	0.5		ug/L	water
906	Y0C68	06-Dec-01	VOCs	EB	Styrene	0.5		ug/L	water
906	Y0C66	06-Dec-01	VOCs	EB	cis-1,3-Dichloropropene	0.5		ug/L	water
906	Y0C67	06-Dec-01	VOCs	EB	cis-1,3-Dichloropropene	0.5		ug/L	water
906	Y0C68	06-Dec-01	VOCs	EB	cis-1,3-Dichloropropene	0.5		ug/L	water
906	Y0C66	06-Dec-01	VOCs	EB	trans-1,3-Dichloropropene	0.5		ug/L	water
906	Y0C67	06-Dec-01	VOCs	EB	trans-1,3-Dichloropropene	0.5		ug/L	water
906	Y0C68	06-Dec-01	VOCs	EB	trans-1,3-Dichloropropene	0.5		ug/L	water
906	Y0C66	06-Dec-01	VOCs	EB	1,4-Dichlorobenzene	0.5		ug/L	water
906	Y0C67	06-Dec-01	VOCs	EB	1,4-Dichlorobenzene	0.5		ug/L	water
906	Y0C68	06-Dec-01	VOCs	EB	1,4-Dichlorobenzene	0.5		ug/L	water
906	Y0C66	06-Dec-01	VOCs	EB	1,2-Dibromoethane (EDB)	0.5		ug/L	water
906	Y0C67	06-Dec-01	VOCs	EB	1,2-Dibromoethane (EDB)	0.5		ug/L	water
906	Y0C68	06-Dec-01	VOCs	EB	1,2-Dibromoethane (EDB)	0.5		ug/L	water
906	Y0C66	06-Dec-01	VOCs	EB	1,2-Dichloroethane	0.5		ug/L	water
906	Y0C67	06-Dec-01	VOCs	EB	1,2-Dichloroethane	0.5		ug/L	water
906	Y0C68	06-Dec-01	VOCs	EB	1,2-Dichloroethane	0.5		ug/L	water
906	Y0C66	06-Dec-01	VOCs	EB	4-Methyl-2-pentanone	5		ug/L	water
906	Y0C67	06-Dec-01	VOCs	EB	4-Methyl-2-pentanone	5		ug/L	water
906	Y0C68	06-Dec-01	VOCs	EB	4-Methyl-2-pentanone	5		ug/L	water

Table C-1
QA/QC Sample Analytical Results

Location ID[1]	Sample ID	Sample Date	Method	QA/QC Type[2]	Analyte	Result	Flag[3]	Unit	Matrix
906	Y0C66	06-Dec-01	VOCs	EB	Methylcyclohexane	0.5		ug/L	water
906	Y0C67	06-Dec-01	VOCs	EB	Methylcyclohexane	0.5		ug/L	water
906	Y0C68	06-Dec-01	VOCs	EB	Methylcyclohexane	0.5		ug/L	water
906	Y0C66	06-Dec-01	VOCs	EB	Toluene	0.5		ug/L	water
906	Y0C67	06-Dec-01	VOCs	EB	Toluene	0.5		ug/L	water
906	Y0C68	06-Dec-01	VOCs	EB	Toluene	0.5		ug/L	water
906	Y0C66	06-Dec-01	VOCs	EB	Chlorobenzene	0.5		ug/L	water
906	Y0C67	06-Dec-01	VOCs	EB	Chlorobenzene	0.5		ug/L	water
906	Y0C68	06-Dec-01	VOCs	EB	Chlorobenzene	0.5		ug/L	water
906	Y0C66	06-Dec-01	VOCs	EB	Cyclohexane	0.5		ug/L	water
906	Y0C67	06-Dec-01	VOCs	EB	Cyclohexane	0.5		ug/L	water
906	Y0C68	06-Dec-01	VOCs	EB	Cyclohexane	0.5		ug/L	water
906	Y0C66	06-Dec-01	VOCs	EB	1,2,4-Trichlorobenzene	0.5		ug/L	water
906	Y0C67	06-Dec-01	VOCs	EB	1,2,4-Trichlorobenzene	0.5		ug/L	water
906	Y0C68	06-Dec-01	VOCs	EB	1,2,4-Trichlorobenzene	0.5		ug/L	water
906	Y0C66	06-Dec-01	VOCs	EB	Dibromochloromethane	0.5		ug/L	water
906	Y0C67	06-Dec-01	VOCs	EB	Dibromochloromethane	0.5		ug/L	water
906	Y0C68	06-Dec-01	VOCs	EB	Dibromochloromethane	0.5		ug/L	water
906	Y0C66	06-Dec-01	VOCs	EB	Tetrachloroethene	0.5		ug/L	water
906	Y0C67	06-Dec-01	VOCs	EB	Tetrachloroethene	0.5		ug/L	water
906	Y0C68	06-Dec-01	VOCs	EB	Tetrachloroethene	0.5		ug/L	water
906	Y0C66	06-Dec-01	VOCs	EB	cis-1,2-Dichloroethene	0.5		ug/L	water
906	Y0C67	06-Dec-01	VOCs	EB	cis-1,2-Dichloroethene	0.5		ug/L	water
906	Y0C68	06-Dec-01	VOCs	EB	cis-1,2-Dichloroethene	0.5		ug/L	water
906	Y0C66	06-Dec-01	VOCs	EB	trans-1,2-Dichloroethene	0.5		ug/L	water
906	Y0C67	06-Dec-01	VOCs	EB	trans-1,2-Dichloroethene	0.5		ug/L	water
906	Y0C68	06-Dec-01	VOCs	EB	trans-1,2-Dichloroethene	0.5		ug/L	water
906	Y0C66	06-Dec-01	VOCs	EB	Methyl t-butyl ether (MTBE)	0.5		ug/L	water
906	Y0C67	06-Dec-01	VOCs	EB	Methyl t-butyl ether (MTBE)	0.5		ug/L	water
906	Y0C68	06-Dec-01	VOCs	EB	Methyl t-butyl ether (MTBE)	0.5		ug/L	water
906	Y0C66	06-Dec-01	VOCs	EB	1,3-Dichlorobenzene	0.5		ug/L	water
906	Y0C67	06-Dec-01	VOCs	EB	1,3-Dichlorobenzene	0.5		ug/L	water
906	Y0C68	06-Dec-01	VOCs	EB	1,3-Dichlorobenzene	0.5		ug/L	water
906	Y0C66	06-Dec-01	VOCs	EB	Carbon tetrachloride (CCL4)	0.5		ug/L	water
906	Y0C67	06-Dec-01	VOCs	EB	Carbon tetrachloride (CCL4)	0.5		ug/L	water
906	Y0C68	06-Dec-01	VOCs	EB	Carbon tetrachloride (CCL4)	0.5		ug/L	water
906	Y0C66	06-Dec-01	VOCs	EB	2-Hexanone	5		ug/L	water
906	Y0C67	06-Dec-01	VOCs	EB	2-Hexanone	5		ug/L	water
906	Y0C68	06-Dec-01	VOCs	EB	2-Hexanone	5		ug/L	water
906	Y0C66	06-Dec-01	VOCs	EB	Chloroform	1		ug/L	water
906	Y0C67	06-Dec-01	VOCs	EB	Chloroform	1		ug/L	water
906	Y0C68	06-Dec-01	VOCs	EB	Chloroform	1		ug/L	water
906	Y0C66	06-Dec-01	VOCs	EB	Benzene	0.5		ug/L	water
906	Y0C67	06-Dec-01	VOCs	EB	Benzene	0.5		ug/L	water
906	Y0C68	06-Dec-01	VOCs	EB	Benzene	0.5		ug/L	water
906	Y0C66	06-Dec-01	VOCs	EB	1,1,1-Trichloroethane	0.5		ug/L	water
906	Y0C67	06-Dec-01	VOCs	EB	1,1,1-Trichloroethane	0.5		ug/L	water
906	Y0C68	06-Dec-01	VOCs	EB	1,1,1-Trichloroethane	0.5		ug/L	water
906	Y0C66	06-Dec-01	VOCs	EB	Bromomethane	0.5		ug/L	water
906	Y0C67	06-Dec-01	VOCs	EB	Bromomethane	0.5		ug/L	water
906	Y0C68	06-Dec-01	VOCs	EB	Bromomethane	0.5		ug/L	water
906	Y0C66	06-Dec-01	VOCs	EB	Chloromethane	0.5		ug/L	water
906	Y0C67	06-Dec-01	VOCs	EB	Chloromethane	0.5		ug/L	water
906	Y0C68	06-Dec-01	VOCs	EB	Chloromethane	0.5		ug/L	water
906	Y0C66	06-Dec-01	VOCs	EB	Bromochloromethane	0.5		ug/L	water
906	Y0C67	06-Dec-01	VOCs	EB	Bromochloromethane	0.5		ug/L	water
906	Y0C68	06-Dec-01	VOCs	EB	Bromochloromethane	0.5		ug/L	water
906	Y0C66	06-Dec-01	VOCs	EB	Chloroethane	0.5		ug/L	water
906	Y0C67	06-Dec-01	VOCs	EB	Chloroethane	0.5		ug/L	water
906	Y0C68	06-Dec-01	VOCs	EB	Chloroethane	0.5		ug/L	water
906	Y0C66	06-Dec-01	VOCs	EB	Vinyl Chloride	0.5		ug/L	water
906	Y0C67	06-Dec-01	VOCs	EB	Vinyl Chloride	0.5		ug/L	water
906	Y0C68	06-Dec-01	VOCs	EB	Vinyl Chloride	0.5		ug/L	water

Table C-1
QA/QC Sample Analytical Results

Location ID[1]	Sample ID	Sample Date	Method	QA/QC Type[2]	Analyte	Result	Flag[3]	Unit	Matrix
906	Y0C66	06-Dec-01	VOCs	EB	Carbon Disulfide	0.5		ug/L	water
906	Y0C67	06-Dec-01	VOCs	EB	Carbon Disulfide	0.5		ug/L	water
906	Y0C68	06-Dec-01	VOCs	EB	Carbon Disulfide	0.5		ug/L	water
906	Y0C66	06-Dec-01	VOCs	EB	Bromoform	0.5		ug/L	water
906	Y0C67	06-Dec-01	VOCs	EB	Bromoform	0.5		ug/L	water
906	Y0C68	06-Dec-01	VOCs	EB	Bromoform	0.5		ug/L	water
906	Y0C66	06-Dec-01	VOCs	EB	Bromodichloromethane	0.5		ug/L	water
906	Y0C67	06-Dec-01	VOCs	EB	Bromodichloromethane	0.5		ug/L	water
906	Y0C68	06-Dec-01	VOCs	EB	Bromodichloromethane	0.5		ug/L	water
906	Y0C66	06-Dec-01	VOCs	EB	1,1-Dichloroethane	0.5		ug/L	water
906	Y0C67	06-Dec-01	VOCs	EB	1,1-Dichloroethane	0.5		ug/L	water
906	Y0C68	06-Dec-01	VOCs	EB	1,1-Dichloroethane	0.5		ug/L	water
906	Y0C66	06-Dec-01	VOCs	EB	1,1-Dichloroethene	0.5		ug/L	water
906	Y0C67	06-Dec-01	VOCs	EB	1,1-Dichloroethene	0.5		ug/L	water
906	Y0C68	06-Dec-01	VOCs	EB	1,1-Dichloroethene	0.5		ug/L	water
906	Y0C66	06-Dec-01	VOCs	EB	Trichlorofluoromethane	0.5		ug/L	water
906	Y0C67	06-Dec-01	VOCs	EB	Trichlorofluoromethane	0.5		ug/L	water
906	Y0C68	06-Dec-01	VOCs	EB	Trichlorofluoromethane	0.5		ug/L	water
906	Y0C66	06-Dec-01	VOCs	EB	Dichlorodifluoromethane	0.5		ug/L	water
906	Y0C67	06-Dec-01	VOCs	EB	Dichlorodifluoromethane	0.5		ug/L	water
906	Y0C68	06-Dec-01	VOCs	EB	Dichlorodifluoromethane	0.5		ug/L	water
906	Y0C66	06-Dec-01	VOCs	EB	1,1,2-Trichloro-1,2,2-trifluoroethane	0.5		ug/L	water
906	Y0C67	06-Dec-01	VOCs	EB	1,1,2-Trichloro-1,2,2-trifluoroethane	0.5		ug/L	water
906	Y0C68	06-Dec-01	VOCs	EB	1,1,2-Trichloro-1,2,2-trifluoroethane	0.5		ug/L	water
906	Y0C66	06-Dec-01	VOCs	EB	1,2-Dichloropropane (DCP)	0.5		ug/L	water
906	Y0C67	06-Dec-01	VOCs	EB	1,2-Dichloropropane (DCP)	0.5		ug/L	water
906	Y0C68	06-Dec-01	VOCs	EB	1,2-Dichloropropane (DCP)	0.5		ug/L	water
906	Y0C66	06-Dec-01	VOCs	EB	2-Butanone	5		ug/L	water
906	Y0C67	06-Dec-01	VOCs	EB	2-Butanone	5		ug/L	water
906	Y0C68	06-Dec-01	VOCs	EB	2-Butanone	5		ug/L	water
906	Y0C66	06-Dec-01	VOCs	EB	1,1,2-Trichloroethane	0.5		ug/L	water
906	Y0C67	06-Dec-01	VOCs	EB	1,1,2-Trichloroethane	0.5		ug/L	water
906	Y0C68	06-Dec-01	VOCs	EB	1,1,2-Trichloroethane	0.5		ug/L	water
906	Y0C66	06-Dec-01	VOCs	EB	Trichloroethene	0.5		ug/L	water
906	Y0C67	06-Dec-01	VOCs	EB	Trichloroethene	0.5		ug/L	water
906	Y0C68	06-Dec-01	VOCs	EB	Trichloroethene	0.5		ug/L	water
906	Y0C66	06-Dec-01	VOCs	EB	1,1,2,2-Tetrachloroethane	0.5		ug/L	water
906	Y0C67	06-Dec-01	VOCs	EB	1,1,2,2-Tetrachloroethane	0.5		ug/L	water
906	Y0C68	06-Dec-01	VOCs	EB	1,1,2,2-Tetrachloroethane	0.5		ug/L	water
906	Y0C66	06-Dec-01	VOCs	EB	1,2,3-Trichlorobenzene	0.5		ug/L	water
906	Y0C67	06-Dec-01	VOCs	EB	1,2,3-Trichlorobenzene	0.5		ug/L	water
906	Y0C68	06-Dec-01	VOCs	EB	1,2,3-Trichlorobenzene	0.5		ug/L	water
906	Y0C66	06-Dec-01	VOCs	EB	1,2-Dichlorobenzene	0.5		ug/L	water
906	Y0C67	06-Dec-01	VOCs	EB	1,2-Dichlorobenzene	0.5		ug/L	water
906	Y0C68	06-Dec-01	VOCs	EB	1,2-Dichlorobenzene	0.5		ug/L	water
906	Y0C66	06-Dec-01	VOCs	EB	1,2-Dibromo-3-chloropropane (DBCP)	0.5		ug/L	water
906	Y0C67	06-Dec-01	VOCs	EB	1,2-Dibromo-3-chloropropane (DBCP)	0.5		ug/L	water
906	Y0C68	06-Dec-01	VOCs	EB	1,2-Dibromo-3-chloropropane (DBCP)	0.5		ug/L	water
906	Y0C66	06-Dec-01	VOCs	EB	Isopropylbenzene	0.5		ug/L	water
906	Y0C67	06-Dec-01	VOCs	EB	Isopropylbenzene	0.5		ug/L	water
906	Y0C68	06-Dec-01	VOCs	EB	Isopropylbenzene	0.5		ug/L	water
906	Y0C66	06-Dec-01	VOCs	EB	Acetone	5	J	ug/L	water
906	Y0C67	06-Dec-01	VOCs	EB	Acetone	4	J	ug/L	water
906	Y0C68	06-Dec-01	VOCs	EB	Acetone	4	J	ug/L	water
906	Y0C66	06-Dec-01	VOCs	EB	Acetone	5	J	ug/L	water
906	Y0C67	06-Dec-01	VOCs	EB	Acetone	4	J	ug/L	water
906	Y0C68	06-Dec-01	VOCs	EB	Acetone	4	J	ug/L	water
906	35987	07-Dec-01	8015B	EB	TPH as Diesel	200	J	ug/L	water
906	Y0C69	07-Dec-01	Pest/PCBs	EB	Heptachlor epoxide	0.01		ug/L	water
906	Y0C70	07-Dec-01	Pest/PCBs	EB	Heptachlor epoxide	0.01		ug/L	water
906	Y0C71	07-Dec-01	Pest/PCBs	EB	Heptachlor epoxide	0.01		ug/L	water
906	Y0C69	07-Dec-01	Pest/PCBs	EB	Endosulfan sulfate	0.02		ug/L	water
906	Y0C70	07-Dec-01	Pest/PCBs	EB	Endosulfan sulfate	0.02		ug/L	water

Table C-1
QA/QC Sample Analytical Results

Location ID[1]	Sample ID	Sample Date	Method	QA/QC Type[2]	Analyte	Result	Flag[3]	Unit	Matrix
906	Y0C71	07-Dec-01	Pest/PCBs	EB	Endosulfan sulfate	0.02		ug/L	water
906	Y0C69	07-Dec-01	Pest/PCBs	EB	gamma-Chlordane	0.01		ug/L	water
906	Y0C70	07-Dec-01	Pest/PCBs	EB	gamma-Chlordane	0.01		ug/L	water
906	Y0C71	07-Dec-01	Pest/PCBs	EB	gamma-Chlordane	0.01		ug/L	water
906	Y0C69	07-Dec-01	Pest/PCBs	EB	Aldrin	0.01		ug/L	water
906	Y0C70	07-Dec-01	Pest/PCBs	EB	Aldrin	0.01		ug/L	water
906	Y0C71	07-Dec-01	Pest/PCBs	EB	Aldrin	0.01		ug/L	water
906	Y0C69	07-Dec-01	Pest/PCBs	EB	alpha-BHC	0.01		ug/L	water
906	Y0C70	07-Dec-01	Pest/PCBs	EB	alpha-BHC	0.01		ug/L	water
906	Y0C71	07-Dec-01	Pest/PCBs	EB	alpha-BHC	0.01		ug/L	water
906	Y0C69	07-Dec-01	Pest/PCBs	EB	beta-BHC	0.01		ug/L	water
906	Y0C70	07-Dec-01	Pest/PCBs	EB	beta-BHC	0.01		ug/L	water
906	Y0C71	07-Dec-01	Pest/PCBs	EB	beta-BHC	0.01		ug/L	water
906	Y0C69	07-Dec-01	Pest/PCBs	EB	delta-BHC	0.01		ug/L	water
906	Y0C70	07-Dec-01	Pest/PCBs	EB	delta-BHC	0.01		ug/L	water
906	Y0C71	07-Dec-01	Pest/PCBs	EB	delta-BHC	0.01		ug/L	water
906	Y0C69	07-Dec-01	Pest/PCBs	EB	Endosulfan II	0.02		ug/L	water
906	Y0C70	07-Dec-01	Pest/PCBs	EB	Endosulfan II	0.02		ug/L	water
906	Y0C71	07-Dec-01	Pest/PCBs	EB	Endosulfan II	0.02		ug/L	water
906	Y0C69	07-Dec-01	Pest/PCBs	EB	4,4'-DDT	0.02		ug/L	water
906	Y0C70	07-Dec-01	Pest/PCBs	EB	4,4'-DDT	0.02		ug/L	water
906	Y0C71	07-Dec-01	Pest/PCBs	EB	4,4'-DDT	0.02		ug/L	water
906	Y0C69	07-Dec-01	Pest/PCBs	EB	alpha-Chlordane	0.01		ug/L	water
906	Y0C70	07-Dec-01	Pest/PCBs	EB	alpha-Chlordane	0.01		ug/L	water
906	Y0C71	07-Dec-01	Pest/PCBs	EB	alpha-Chlordane	0.01		ug/L	water
906	Y0C69	07-Dec-01	Pest/PCBs	EB	Endrin ketone	0.02		ug/L	water
906	Y0C70	07-Dec-01	Pest/PCBs	EB	Endrin ketone	0.02		ug/L	water
906	Y0C71	07-Dec-01	Pest/PCBs	EB	Endrin ketone	0.02		ug/L	water
906	Y0C69	07-Dec-01	Pest/PCBs	EB	gamma-BHC (Lindane)	0.01		ug/L	water
906	Y0C70	07-Dec-01	Pest/PCBs	EB	gamma-BHC (Lindane)	0.01		ug/L	water
906	Y0C71	07-Dec-01	Pest/PCBs	EB	gamma-BHC (Lindane)	0.01		ug/L	water
906	Y0C69	07-Dec-01	Pest/PCBs	EB	Dieldrin	0.02		ug/L	water
906	Y0C70	07-Dec-01	Pest/PCBs	EB	Dieldrin	0.02		ug/L	water
906	Y0C71	07-Dec-01	Pest/PCBs	EB	Dieldrin	0.02		ug/L	water
906	Y0C69	07-Dec-01	Pest/PCBs	EB	Endrin	0.02		ug/L	water
906	Y0C70	07-Dec-01	Pest/PCBs	EB	Endrin	0.02		ug/L	water
906	Y0C71	07-Dec-01	Pest/PCBs	EB	Endrin	0.02		ug/L	water
906	Y0C69	07-Dec-01	Pest/PCBs	EB	Methoxychlor	0.1		ug/L	water
906	Y0C70	07-Dec-01	Pest/PCBs	EB	Methoxychlor	0.1		ug/L	water
906	Y0C71	07-Dec-01	Pest/PCBs	EB	Methoxychlor	0.1		ug/L	water
906	Y0C69	07-Dec-01	Pest/PCBs	EB	4,4'-DDD	0.02		ug/L	water
906	Y0C70	07-Dec-01	Pest/PCBs	EB	4,4'-DDD	0.02		ug/L	water
906	Y0C71	07-Dec-01	Pest/PCBs	EB	4,4'-DDD	0.02		ug/L	water
906	Y0C69	07-Dec-01	Pest/PCBs	EB	4,4'-DDE	0.02		ug/L	water
906	Y0C70	07-Dec-01	Pest/PCBs	EB	4,4'-DDE	0.02		ug/L	water
906	Y0C71	07-Dec-01	Pest/PCBs	EB	4,4'-DDE	0.02		ug/L	water
906	Y0C69	07-Dec-01	Pest/PCBs	EB	Endrin aldehyde	0.02		ug/L	water
906	Y0C70	07-Dec-01	Pest/PCBs	EB	Endrin aldehyde	0.02		ug/L	water
906	Y0C71	07-Dec-01	Pest/PCBs	EB	Endrin aldehyde	0.02		ug/L	water
906	Y0C69	07-Dec-01	Pest/PCBs	EB	Heptachlor	0.01		ug/L	water
906	Y0C70	07-Dec-01	Pest/PCBs	EB	Heptachlor	0.01		ug/L	water
906	Y0C71	07-Dec-01	Pest/PCBs	EB	Heptachlor	0.01		ug/L	water
906	Y0C69	07-Dec-01	Pest/PCBs	EB	Endosulfan I	0.01		ug/L	water
906	Y0C70	07-Dec-01	Pest/PCBs	EB	Endosulfan I	0.01		ug/L	water
906	Y0C71	07-Dec-01	Pest/PCBs	EB	Endosulfan I	0.01		ug/L	water
906	Y0C69	07-Dec-01	VOCs	EB	Chloroform	0.7		ug/L	water
906	Y0C70	07-Dec-01	VOCs	EB	Chloroform	0.7		ug/L	water
906	Y0C70	07-Dec-01	VOCs	EB	Xylenes (total)	0.5		ug/L	water
906	Y0C71	07-Dec-01	VOCs	EB	Xylenes (total)	0.5		ug/L	water
906	Y0C69	07-Dec-01	VOCs	EB	Xylenes (total)	0.5		ug/L	water
906	Y0C70	07-Dec-01	VOCs	EB	Ethylbenzene	0.5		ug/L	water
906	Y0C71	07-Dec-01	VOCs	EB	Ethylbenzene	0.5		ug/L	water
906	Y0C69	07-Dec-01	VOCs	EB	Ethylbenzene	0.5		ug/L	water

Table C-1
QA/QC Sample Analytical Results

Location ID[1]	Sample ID	Sample Date	Method	QA/QC Type[2]	Analyte	Result	Flag[3]	Unit	Matrix
906	Y0C70	07-Dec-01	VOCs	EB	Styrene	0.5		ug/L	water
906	Y0C71	07-Dec-01	VOCs	EB	Styrene	0.5		ug/L	water
906	Y0C69	07-Dec-01	VOCs	EB	Styrene	0.5		ug/L	water
906	Y0C70	07-Dec-01	VOCs	EB	cis-1,3-Dichloropropene	0.5		ug/L	water
906	Y0C71	07-Dec-01	VOCs	EB	cis-1,3-Dichloropropene	0.5		ug/L	water
906	Y0C69	07-Dec-01	VOCs	EB	cis-1,3-Dichloropropene	0.5		ug/L	water
906	Y0C70	07-Dec-01	VOCs	EB	trans-1,3-Dichloropropene	0.5		ug/L	water
906	Y0C71	07-Dec-01	VOCs	EB	trans-1,3-Dichloropropene	0.5		ug/L	water
906	Y0C69	07-Dec-01	VOCs	EB	trans-1,3-Dichloropropene	0.5		ug/L	water
906	Y0C70	07-Dec-01	VOCs	EB	1,4-Dichlorobenzene	0.5		ug/L	water
906	Y0C71	07-Dec-01	VOCs	EB	1,4-Dichlorobenzene	0.5		ug/L	water
906	Y0C69	07-Dec-01	VOCs	EB	1,4-Dichlorobenzene	0.5		ug/L	water
906	Y0C70	07-Dec-01	VOCs	EB	1,2-Dibromoethane (EDB)	0.5		ug/L	water
906	Y0C71	07-Dec-01	VOCs	EB	1,2-Dibromoethane (EDB)	0.5		ug/L	water
906	Y0C69	07-Dec-01	VOCs	EB	1,2-Dibromoethane (EDB)	0.5		ug/L	water
906	Y0C70	07-Dec-01	VOCs	EB	1,2-Dichloroethane	0.5		ug/L	water
906	Y0C71	07-Dec-01	VOCs	EB	1,2-Dichloroethane	0.5		ug/L	water
906	Y0C69	07-Dec-01	VOCs	EB	1,2-Dichloroethane	0.5		ug/L	water
906	Y0C70	07-Dec-01	VOCs	EB	4-Methyl-2-pentanone	5		ug/L	water
906	Y0C71	07-Dec-01	VOCs	EB	4-Methyl-2-pentanone	5		ug/L	water
906	Y0C69	07-Dec-01	VOCs	EB	4-Methyl-2-pentanone	5		ug/L	water
906	Y0C70	07-Dec-01	VOCs	EB	Methylcyclohexane	0.5		ug/L	water
906	Y0C71	07-Dec-01	VOCs	EB	Methylcyclohexane	0.5		ug/L	water
906	Y0C69	07-Dec-01	VOCs	EB	Methylcyclohexane	0.5		ug/L	water
906	Y0C70	07-Dec-01	VOCs	EB	Toluene	0.5		ug/L	water
906	Y0C71	07-Dec-01	VOCs	EB	Toluene	0.5		ug/L	water
906	Y0C69	07-Dec-01	VOCs	EB	Toluene	0.5		ug/L	water
906	Y0C70	07-Dec-01	VOCs	EB	Chlorobenzene	0.5		ug/L	water
906	Y0C71	07-Dec-01	VOCs	EB	Chlorobenzene	0.5		ug/L	water
906	Y0C69	07-Dec-01	VOCs	EB	Chlorobenzene	0.5		ug/L	water
906	Y0C70	07-Dec-01	VOCs	EB	Cyclohexane	0.5		ug/L	water
906	Y0C71	07-Dec-01	VOCs	EB	Cyclohexane	0.5		ug/L	water
906	Y0C69	07-Dec-01	VOCs	EB	Cyclohexane	0.5		ug/L	water
906	Y0C70	07-Dec-01	VOCs	EB	1,2,4-Trichlorobenzene	0.5		ug/L	water
906	Y0C71	07-Dec-01	VOCs	EB	1,2,4-Trichlorobenzene	0.5		ug/L	water
906	Y0C69	07-Dec-01	VOCs	EB	1,2,4-Trichlorobenzene	0.5		ug/L	water
906	Y0C70	07-Dec-01	VOCs	EB	Dibromochloromethane	0.5		ug/L	water
906	Y0C71	07-Dec-01	VOCs	EB	Dibromochloromethane	0.5		ug/L	water
906	Y0C69	07-Dec-01	VOCs	EB	Dibromochloromethane	0.5		ug/L	water
906	Y0C70	07-Dec-01	VOCs	EB	Tetrachloroethene	0.5		ug/L	water
906	Y0C71	07-Dec-01	VOCs	EB	Tetrachloroethene	0.5		ug/L	water
906	Y0C69	07-Dec-01	VOCs	EB	Tetrachloroethene	0.5		ug/L	water
906	Y0C69	07-Dec-01	VOCs	EB	cis-1,2-Dichloroethene	0.5		ug/L	water
906	Y0C70	07-Dec-01	VOCs	EB	cis-1,2-Dichloroethene	0.5		ug/L	water
906	Y0C71	07-Dec-01	VOCs	EB	cis-1,2-Dichloroethene	0.5		ug/L	water
906	Y0C69	07-Dec-01	VOCs	EB	trans-1,2-Dichloroethene	0.5		ug/L	water
906	Y0C70	07-Dec-01	VOCs	EB	trans-1,2-Dichloroethene	0.5		ug/L	water
906	Y0C71	07-Dec-01	VOCs	EB	trans-1,2-Dichloroethene	0.5		ug/L	water
906	Y0C69	07-Dec-01	VOCs	EB	Methyl t-butyl ether (MTBE)	0.5		ug/L	water
906	Y0C70	07-Dec-01	VOCs	EB	Methyl t-butyl ether (MTBE)	0.5		ug/L	water
906	Y0C71	07-Dec-01	VOCs	EB	Methyl t-butyl ether (MTBE)	0.5		ug/L	water
906	Y0C70	07-Dec-01	VOCs	EB	1,3-Dichlorobenzene	0.5		ug/L	water
906	Y0C71	07-Dec-01	VOCs	EB	1,3-Dichlorobenzene	0.5		ug/L	water
906	Y0C69	07-Dec-01	VOCs	EB	1,3-Dichlorobenzene	0.5		ug/L	water
906	Y0C70	07-Dec-01	VOCs	EB	Carbon tetrachloride (CCL4)	0.5		ug/L	water
906	Y0C71	07-Dec-01	VOCs	EB	Carbon tetrachloride (CCL4)	0.5		ug/L	water
906	Y0C69	07-Dec-01	VOCs	EB	Carbon tetrachloride (CCL4)	0.5		ug/L	water
906	Y0C70	07-Dec-01	VOCs	EB	2-Hexanone	5		ug/L	water
906	Y0C71	07-Dec-01	VOCs	EB	2-Hexanone	5		ug/L	water
906	Y0C69	07-Dec-01	VOCs	EB	2-Hexanone	5		ug/L	water
906	Y0C69	07-Dec-01	VOCs	EB	Chloroform	0.7		ug/L	water
906	Y0C70	07-Dec-01	VOCs	EB	Chloroform	0.7		ug/L	water
906	Y0C70	07-Dec-01	VOCs	EB	Benzene	0.5		ug/L	water

Table C-1
QA/QC Sample Analytical Results

Location ID[1]	Sample ID	Sample Date	Method	QA/QC Type[2]	Analyte	Result	Flag[3]	Unit	Matrix
906	Y0C71	07-Dec-01	VOCs	EB	Benzene	0.5		ug/L	water
906	Y0C69	07-Dec-01	VOCs	EB	Benzene	0.5		ug/L	water
906	Y0C70	07-Dec-01	VOCs	EB	1,1,1-Trichloroethane	0.5		ug/L	water
906	Y0C71	07-Dec-01	VOCs	EB	1,1,1-Trichloroethane	0.5		ug/L	water
906	Y0C69	07-Dec-01	VOCs	EB	1,1,1-Trichloroethane	0.5		ug/L	water
906	Y0C69	07-Dec-01	VOCs	EB	Bromomethane	0.5		ug/L	water
906	Y0C70	07-Dec-01	VOCs	EB	Bromomethane	0.5		ug/L	water
906	Y0C71	07-Dec-01	VOCs	EB	Bromomethane	0.5		ug/L	water
906	Y0C69	07-Dec-01	VOCs	EB	Chloromethane	0.5		ug/L	water
906	Y0C70	07-Dec-01	VOCs	EB	Chloromethane	0.5		ug/L	water
906	Y0C71	07-Dec-01	VOCs	EB	Chloromethane	0.5		ug/L	water
906	Y0C69	07-Dec-01	VOCs	EB	Bromochloromethane	0.5		ug/L	water
906	Y0C70	07-Dec-01	VOCs	EB	Bromochloromethane	0.5		ug/L	water
906	Y0C71	07-Dec-01	VOCs	EB	Bromochloromethane	0.5		ug/L	water
906	Y0C69	07-Dec-01	VOCs	EB	Chloroethane	0.5		ug/L	water
906	Y0C70	07-Dec-01	VOCs	EB	Chloroethane	0.5		ug/L	water
906	Y0C71	07-Dec-01	VOCs	EB	Chloroethane	0.5		ug/L	water
906	Y0C69	07-Dec-01	VOCs	EB	Vinyl Chloride	0.5		ug/L	water
906	Y0C70	07-Dec-01	VOCs	EB	Vinyl Chloride	0.5		ug/L	water
906	Y0C71	07-Dec-01	VOCs	EB	Vinyl Chloride	0.5		ug/L	water
906	Y0C69	07-Dec-01	VOCs	EB	Carbon Disulfide	0.5		ug/L	water
906	Y0C70	07-Dec-01	VOCs	EB	Carbon Disulfide	0.5		ug/L	water
906	Y0C71	07-Dec-01	VOCs	EB	Carbon Disulfide	0.5		ug/L	water
906	Y0C70	07-Dec-01	VOCs	EB	Bromoform	0.5		ug/L	water
906	Y0C71	07-Dec-01	VOCs	EB	Bromoform	0.5		ug/L	water
906	Y0C69	07-Dec-01	VOCs	EB	Bromoform	0.5		ug/L	water
906	Y0C70	07-Dec-01	VOCs	EB	Bromodichloromethane	0.5		ug/L	water
906	Y0C71	07-Dec-01	VOCs	EB	Bromodichloromethane	0.5		ug/L	water
906	Y0C69	07-Dec-01	VOCs	EB	Bromodichloromethane	0.5		ug/L	water
906	Y0C69	07-Dec-01	VOCs	EB	1,1-Dichloroethane	0.5		ug/L	water
906	Y0C70	07-Dec-01	VOCs	EB	1,1-Dichloroethane	0.5		ug/L	water
906	Y0C71	07-Dec-01	VOCs	EB	1,1-Dichloroethane	0.5		ug/L	water
906	Y0C69	07-Dec-01	VOCs	EB	1,1-Dichloroethene	0.5		ug/L	water
906	Y0C70	07-Dec-01	VOCs	EB	1,1-Dichloroethene	0.5		ug/L	water
906	Y0C71	07-Dec-01	VOCs	EB	1,1-Dichloroethene	0.5		ug/L	water
906	Y0C69	07-Dec-01	VOCs	EB	Trichlorofluoromethane	0.5		ug/L	water
906	Y0C70	07-Dec-01	VOCs	EB	Trichlorofluoromethane	0.5		ug/L	water
906	Y0C71	07-Dec-01	VOCs	EB	Trichlorofluoromethane	0.5		ug/L	water
906	Y0C69	07-Dec-01	VOCs	EB	Dichlorodifluoromethane	0.5		ug/L	water
906	Y0C70	07-Dec-01	VOCs	EB	Dichlorodifluoromethane	0.5		ug/L	water
906	Y0C71	07-Dec-01	VOCs	EB	Dichlorodifluoromethane	0.5		ug/L	water
906	Y0C69	07-Dec-01	VOCs	EB	1,1,2-Trichloro-1,2,2-trifluoroethane	0.5		ug/L	water
906	Y0C70	07-Dec-01	VOCs	EB	1,1,2-Trichloro-1,2,2-trifluoroethane	0.5		ug/L	water
906	Y0C71	07-Dec-01	VOCs	EB	1,1,2-Trichloro-1,2,2-trifluoroethane	0.5		ug/L	water
906	Y0C70	07-Dec-01	VOCs	EB	1,2-Dichloropropane (DCP)	0.5		ug/L	water
906	Y0C71	07-Dec-01	VOCs	EB	1,2-Dichloropropane (DCP)	0.5		ug/L	water
906	Y0C69	07-Dec-01	VOCs	EB	1,2-Dichloropropane (DCP)	0.5		ug/L	water
906	Y0C69	07-Dec-01	VOCs	EB	2-Butanone	5		ug/L	water
906	Y0C70	07-Dec-01	VOCs	EB	2-Butanone	5		ug/L	water
906	Y0C71	07-Dec-01	VOCs	EB	2-Butanone	5		ug/L	water
906	Y0C70	07-Dec-01	VOCs	EB	1,1,2-Trichloroethane	0.5		ug/L	water
906	Y0C71	07-Dec-01	VOCs	EB	1,1,2-Trichloroethane	0.5		ug/L	water
906	Y0C69	07-Dec-01	VOCs	EB	1,1,2-Trichloroethane	0.5		ug/L	water
906	Y0C70	07-Dec-01	VOCs	EB	Trichloroethene	0.5		ug/L	water
906	Y0C71	07-Dec-01	VOCs	EB	Trichloroethene	0.5		ug/L	water
906	Y0C69	07-Dec-01	VOCs	EB	Trichloroethene	0.5		ug/L	water
906	Y0C70	07-Dec-01	VOCs	EB	1,1,2,2-Tetrachloroethane	0.5		ug/L	water
906	Y0C71	07-Dec-01	VOCs	EB	1,1,2,2-Tetrachloroethane	0.5		ug/L	water
906	Y0C69	07-Dec-01	VOCs	EB	1,1,2,2-Tetrachloroethane	0.5		ug/L	water
906	Y0C70	07-Dec-01	VOCs	EB	1,2,3-Trichlorobenzene	0.5		ug/L	water
906	Y0C71	07-Dec-01	VOCs	EB	1,2,3-Trichlorobenzene	0.5		ug/L	water
906	Y0C69	07-Dec-01	VOCs	EB	1,2,3-Trichlorobenzene	0.5		ug/L	water
906	Y0C70	07-Dec-01	VOCs	EB	1,2-Dichlorobenzene	0.5		ug/L	water

Table C-1
QA/QC Sample Analytical Results

Location ID[1]	Sample ID	Sample Date	Method	QA/QC Type[2]	Analyte	Result	Flag[3]	Unit	Matrix
906	Y0C71	07-Dec-01	VOCs	EB	1,2-Dichlorobenzene	0.5		ug/L	water
906	Y0C69	07-Dec-01	VOCs	EB	1,2-Dichlorobenzene	0.5		ug/L	water
906	Y0C70	07-Dec-01	VOCs	EB	1,2-Dibromo-3-chloropropane (DBCP)	0.5		ug/L	water
906	Y0C71	07-Dec-01	VOCs	EB	1,2-Dibromo-3-chloropropane (DBCP)	0.5		ug/L	water
906	Y0C69	07-Dec-01	VOCs	EB	1,2-Dibromo-3-chloropropane (DBCP)	0.5		ug/L	water
906	Y0C70	07-Dec-01	VOCs	EB	Isopropylbenzene	0.5		ug/L	water
906	Y0C71	07-Dec-01	VOCs	EB	Isopropylbenzene	0.5		ug/L	water
906	Y0C69	07-Dec-01	VOCs	EB	Isopropylbenzene	0.5		ug/L	water
906	Y0C69	07-Dec-01	VOCs	EB	Acetone	2	J	ug/L	water
906	Y0C70	07-Dec-01	VOCs	EB	Acetone	2	J	ug/L	water
906	Y0C71	07-Dec-01	VOCs	EB	Acetone	1	J	ug/L	water
906	Y0C71	07-Dec-01	VOCs	EB	Chloroform	0.5	J	ug/L	water
906	Y0C69	07-Dec-01	VOCs	EB	Acetone	2	J	ug/L	water
906	Y0C70	07-Dec-01	VOCs	EB	Acetone	2	J	ug/L	water
906	Y0C71	07-Dec-01	VOCs	EB	Acetone	1	J	ug/L	water
906	Y0C71	07-Dec-01	VOCs	EB	Chloroform	0.5	J	ug/L	water

Note:
1. Samples designated with the location 906 were collected during the tank soil sampling and 904 was collected with the soil borings.

2. QA/QC Type:
EB = Equipment Blank
FB = Field Blank
TB= Trip Blank

3. Lab Flag Description:
B = This compound was also detected in the blank.
J = The amount detected is less than the quantitation limit and is only an estimated value.
UJ = The analyte was not detected above the reported quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

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