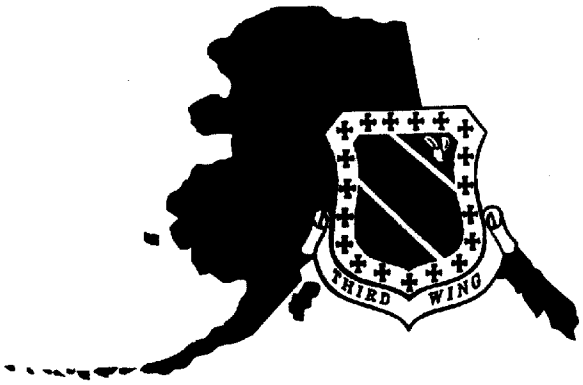


UNITED STATES AIR FORCE
ELMENDORF AIR FORCE BASE, ALASKA

ENVIRONMENTAL RESTORATION PROGRAM

BASEWIDE BACKGROUND SAMPLING REPORT
VOLUME 1

JANUARY 1993

PRINTED ON RECYCLED PAPER

Engineers
Planners
Economists
Scientists

February 1, 1993

ANC31026.F2.70

Ms. Sharon Stone
United States Air Force
3 SPTG/DEVR
22040 Maple Street
Elmendorf AFB, Alaska 99506

Dear Ms. Stone:

Subject: Distribution of the Final Basewide Background Sampling Report

Enclosed are 15 copies of the Final Basewide Background Sampling Report (BBS Report).

We have included an additional appendix in the Final BBS Report, Appendix H, that includes a graphic display of the base wells and monitoring wells that have been installed prior to December 1992, tables of monitoring well coordinate information, and base monument elevations relative to the monuments near the Port of Anchorage. This information will allow groundwater flow and gradient evaluations to be accurately assessed on a basewide basis, and will allow future monitoring wells to be integrated into the basewide groundwater monitoring network.

We have appreciated your input in the completion of the Basewide Background Sampling investigation and in the completion of this document. If you have any questions concerning the document, or have any questions concerning the transfer of this information to Jacobs Engineering or other contractors, please do not hesitate to call me.

Sincerely,

CH2M HILL

Dave Bunte
Project Manager

md/10010f0b.anc
cc: John April/EMO (5 copies)
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UNITED STATES AIR FORCE
ELMENDORF AIR FORCE BASE, ALASKA

ENVIRONMENTAL RESTORATION PROGRAM

BASEWIDE BACKGROUND SAMPLING REPORT
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EXECUTIVE SUMMARY

EXECUTIVE SUMMARY

This report presents the results of the Basewide Background Sampling Investigation (BBSI) conducted at Elmendorf Air Force Base (AFB) located near Anchorage, Alaska. The objectives of the investigation were to assess background concentrations of inorganic constituents in soil, and to compile existing data on concentrations of chemicals in various environmental media on the base. The data may be used comparatively to assess whether concentrations of these constituents found at operable units (OUs) on the base represent naturally-occurring background levels, or those resulting from human activities. This information will aid in risk-based decisions which are part of the remedial investigation and feasibility studies (RI/FS) activities.

The BBSI was divided into four subtasks: compiling existing surface water, sediment, and groundwater data; reviewing air quality literature; monitoring water levels; and sampling and analyzing soils for background metals content.

Compiling Existing Data

Existing surface water, groundwater, and sediment data from previous investigations were compiled and entered into an electronic database in Installation Restoration Program Information Management System (IRPIMS) format. Sources of data were the U.S. Geological Survey (USGS), U.S. Air Force (USAF) Bioenvironmental Engineering Services Group (BESG), and previous Black & Veatch investigative reports. Summary tables of over 30,000 entries were generated, and the results were analyzed for increasing and decreasing trends at each sampling location. Six cases of observable trends were cited, although most data indicated no clear trend.

Reviewing Air Quality Literature

The status of air quality in the vicinity of Elmendorf AFB was evaluated through discussions with regulatory personnel and a review of existing literature. The evaluation revealed that the Anchorage area is considered to be in compliance with existing air toxics standards. No extensive ambient air monitoring for toxics has been conducted by the Municipality of Anchorage, although BESG conducted a 19-hour air sampling event coincidental with the transfer of 840,000 gallons of fuel by the Defense Fuel Agency at the Port of Anchorage. Air samples collected in the vicinity of the Cherry Hill and Citrus housing areas did not contain fuel constituents in excess of nationally established work place or public standards. Samples collected at the Defense Fuel Agency facilities contained fuel constituents in excess of general public standards, but the concentrations detected were below occupational exposure standards. Major sources of increased risk from air toxics in the United States were listed and discussed as they pertain to the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) process on the AFB. Baseline air sampling is not recommended, but air dispersion modeling for health risk assessments at source areas may be conducted during the RI/FS process.

Monitoring Water Levels

Onsite monitoring wells, base production wells, and stream gages were inspected and evaluated to select locations most appropriate for continuous water level monitoring (CWLM). Evaluations included a review of well construction and soil boring logs, followed by a field inspection. Of 131 monitoring wells evaluated, 72 were preselected based on

logs, and after a field review, 38 wells were selected as appropriate for installation of CWLM equipment. Potential locations were evaluated based on the following criteria:

- The CWLM network in the shallow aquifer must be distributed throughout the OU areas to allow assessment of hydrogeologic conditions.
- Shallow aquifer CWLM sites used for surface/groundwater interaction must be located within 1/2 mile of Ship Creek.
- Several wells must be located near confined aquifer wells to enable the assessment of interaction between shallow and confined aquifers.

Seventeen sites were selected in consultation with USAF, EPA, and ADEC as CWLM sites: 12 monitoring wells, 3 base supply wells, and 2 gaging stations on Ship Creek. CWLM equipment was selected and 17 units were ordered. Eleven units were installed during the week of August 17, 1992; however, portions of five units were inoperative and returned for repairs. The remainder of the equipment was installed in September 1992.

Water level data collected during the field well inspections were used to generate a water level contour map representative of groundwater levels in the unconfined aquifer in September 1992. Quarterly manual measurement of water levels on the base is recommended. Additional recommendations based on the monitoring well inspection include improvements to well surface completions, locating those monitoring wells not found during the inspection, and possible abandonment of wells depending on their condition.

Background Soil Sampling

Soil samples were collected from 14 boring locations: 7 borings in the morainal area of the base, and 7 from the alluvium. At each boring location a surface sample (0 to 0.5 feet), a root zone sample (0.5 to 3.0 feet) and one or more deep soil samples (greater than 3.0 feet) were collected. The various depths represent source zones for potential exposure routes typically examined during health risk assessments. Each of the resulting 60 samples were analyzed in the laboratory for concentrations of 23 metals; lab results were statistically analyzed to generate characteristics to which OU soils metal content can be compared.

Statistical exploratory plots using the soil lab data were generated for each of the 23 metals. The data revealed no statistically significant differences between the samples from alluvial versus morainal areas; the alluvial and morainal results were therefore pooled. The three depth ranges did contain different distributions of metals content. Other observations from the plots were:

- All data fit the normal distribution model reasonably well.
- The widest distributions of metals content were found in the surface samples.
- The variation in metals content with depth included some increases, some decreases, and some cases with little change.

Based on distribution information from the plots, a mean, a standard deviation, a 99 percent upper confidence limit on the mean, and an upper 99th percentile tolerance limit at a 95 percent confidence interval were generated for each metal in each depth range. Data collected from Elmendorf AFB OU investigations may be compared to these values. Sets of new data may be similarly analyzed, and the resulting statistics compared to background values. Single points may be compared to the upper tolerance limits to evaluate the likelihood that OU source metals content is representative of background concentrations. The upper confidence limit of the mean from OU sample data can be compared to the upper confidence limit of the background mean when OU sample data are grouped to represent a given area. The following guidelines should be considered when performing risk assessments associated with OUs:

- Samples should be collected from the soil depth range that is potential source of metals for that particular route of exposure.

- Samples from both alluvial and morainal formations may be compared with the same background results.

ABBREVIATIONS

ADF&G	Alaska Department of Fish and Game
ACGIH	American Conference of Governmental Industrial Hygienists
AFB	Air Force Base
ASTM	American Society for Testing Material
BBSI	Basewide Background Sampling Investigation
BBSP	Basewide Background Sampling Plan
BCHWCI	well completion information file
bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene, and xylenes
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CLP	contract laboratory program
CRDL	contract required detection limit
CWLM	continuous water level monitoring
DFA	Defense Fuels Agency
DFSP	Defense Fuels Supply Point
DNAPL	dense non-aqueous phase liquid
EPA	U.S. Environmental Protection Agency
gA	glacial alluvial
gpm	gallons per minute
IDL	instrument detection limit
IQR	interquartile range
IRP	Installation Restoration Program
IRPIMS	Installation Restoration Program Information Management System
kg	kilogram
LNAPL	light non-aqueous phase liquid
MDL	method detection limit
mg	milligram
NESHAP	National Emission Standards for Hazardous Air Pollutants
NIOSH	National Institute for Occupational Safety and Health
NPL	National Priorities List
OSHA	Occupational Safety and Health Administration
OU	operable unit
PICs	products of incomplete combustion

PID	photoionization detector
POL	petroleum, oil, and lubricants
psig	per square inch gauge
PVC	polyvinyl chloride
QA	quality assurance
QC	quality control
RA	remedial action
RD	remedial design
RI/FS	remedial investigation/feasibility study
RPD	relative percent difference
SCS	Soil Conservation Service
TCA	trichloroethane
USAF	U.S. Air Force
USGS	U.S. Geological Survey
UTL	upper tolerance limit

1.0 INTRODUCTION

1.0 INTRODUCTION

This report presents the results of the Basewide Background Sampling Investigation conducted at Elmendorf AFB located in the Municipality of Anchorage, Alaska. The BBSI was conducted to compile existing data for various environmental media, and to collect and analyze soils samples from undisturbed sites across the base in order to assess background concentrations of inorganic constituents. The results of the investigation are to be used to facilitate the planning and execution of other RI/FS activities currently being completed, or those that may be completed in the future. The data gathered during this investigation may be used comparatively to assess whether metals data collected from other source area investigations represent naturally-occurring background levels, or those resulting from human activities. This information is of particular importance when RI/FS decisions could be made using risk-based concentrations of metals that could be less than background concentrations.

The following sections and appendixes present the results of this investigation:

- 1.0 Introduction—includes background information
- 2.0 Existing Data Compilation
- 3.0 Air Quality Literature Review
- 4.0 Water Level Monitoring
- 5.0 Background Soil Sampling
- 6.0 References
- 7.0 Bibliography
- Appendixes

-	Appendix A	Existing Data Compilation Report
-	Appendix B	Geologic and Well Construction Logs
-	Appendix C	Wells Within 1/4 Mile of Elmendorf AFB
-	Appendix D	Existing Well Evaluation Forms
-	Appendix E	Well Evaluation Results Memo
-	Appendix F	RST Maintenance and Operations Manual
-	Appendix G	CWLM Data
-	Appendix H	Summary of Elmendorf AFB Monitoring Wells
-	Appendix I	Soil Boring Logs
-	Appendix J	Soil Sampling Field Logbook
-	Appendix K	Background Sampling Laboratory Results

1.1 PURPOSE AND SCOPE

1.1.1 Purpose

The purpose of the BBSI was to assess background concentrations of inorganics in soils at Elmendorf AFB, to establish a groundwater level monitoring network for future

development of a hydrogeologic model for the base, and to compile existing data to aid in the evaluation of contaminant concentrations from OU investigations.

1.1.1.1 Compiling Existing Data

Existing groundwater, surface water and sediment, and soils data were compiled to collect the USGS, USAF Bioenvironmental Engineering, and USAF IRP data into one consistent database format. In this format, the data can be more readily accessed to plan investigations or compare the results of current investigations to results of previous investigations.

1.1.1.2 Reviewing Air Quality Information

Air quality literature was reviewed to determine if any air toxics data had been previously collected from Elmendorf AFB. This information could be used to determine whether any air toxics had been identified at concentrations in excess of applicable state or federal ambient or air emission standards.

1.1.1.3 Monitoring Water Levels

The basewide water level monitoring task was completed to gather information about the construction of the base supply wells and monitoring wells, to record observed deficiencies in the construction of the base supply sells, and to develop a basewide water level monitoring network.

1.1.1.4 Background Soil Sampling

Data were collected to determine background soil concentrations of inorganics in the soils at Elmendorf AFB. These data may be used during future remedial investigations and risk assessment activities to determine when background concentrations of inorganic constituents have been exceeded.

1.1.2 Scope

The scope of the BBSI task was divided into four subtasks:

- compiling existing data
- reviewing air quality literature
- monitoring groundwater and surface water stream levels
- sampling background soil.

The success of each of these activities depended on meeting the requirements of each scope of work described in the BBSP. These requirements include completing each activity and meeting the quality control/quality assurance criteria described in the BBSP.

1.1.2.1 Compiling Existing Data

Existing surface water, groundwater, and sediment data from previous investigations were compiled, entered into Paradox® using the IRPIMS database format, and reformatted into summary data tables. These data were compiled to assess

concentrations of inorganic and organic constituents in groundwater, surface water, and sediments. Sources of data that were compiled, entered into IRPIMS, and reformatted into tables included USGS groundwater data, USAF Bioenvironmental Engineering Services Group surface water and groundwater data, and Black & Veatch, Inc., surface water, sediment, and groundwater data collected during earlier investigations.

1.1.2.2 Reviewing Air Quality Literature

This task included the review of existing EPA reports, discussions with state regulatory agency personnel, and a review of pertinent air toxics literature to obtain air toxics data that may have been collected during previous investigations in the Anchorage bowl on or near Elmendorf AFB.

1.1.2.3 Monitoring Water Levels

Onsite monitoring wells, base production wells, and stream staff gages were inspected and evaluated to select those locations most appropriate for collecting water level measurements. The results of this task were used to select CWLM sites consisting of monitoring wells, active/inactive water supply wells, and staff gauges on Ship Creek.

Evaluation of the monitoring and production wells consisted of a review of boring logs, well construction logs, and a field inspection. Information obtained during the field inspection included observations of the surface completion, depth to water, dense non-aqueous phase product (DNAPL), light non-aqueous phase product (LNAPL), and total casing depth. It should be noted that this monitoring well evaluation did not consider hydrostratagraphic factors such as heterogeneity in grain size and hydraulic conductivity, or groundwater quality with respect to contaminated sources. More detailed evaluation is required if these factors are to be considered.

The basewide CWLM network will be used to assess groundwater movement across the base, which encompasses a number of hazardous waste OUs. The information and field measurements collected from the CWLM network will also support the evaluation of fate and transport of groundwater contaminants. These data may also be used to plan or to supplement individual OU investigations with respect to groundwater flow.

1.1.2.4 Background Soil Sampling

Soil samples were collected from 14 soil borings: 7 in the alluvial area, and 7 in the moraine of Elmendorf AFB. At each boring, a surface soil sample (between 0.0 to 0.5 feet) and a shallow subsurface (0.5 to 3 feet) soil sample were collected and tested for Target Analyte List metals. The shallow subsurface soil sample represented the root zone and the excavation depths made for building foundations and shallow pipelines on base. Two deeper soil samples for each boring were also collected and tested for total metals. The latter samples were discretionary samples collected based on observed changes in lithology.

1.2 OBJECTIVES

The objectives of the BBSI were to:

- obtain basewide soil background metals data that could be the basis for making decisions throughout the CERCLA remediation process at Elmendorf AFB, including ecological assessments
- compile data, if available, representative of the background levels of other environmental media from previous reports
- provide a network for collecting the data required to establish a hydrogeologic model for the base.
- estimate groundwater flow directions in the confined and unconfined aquifers
- estimate the effects seasonal variations on confined and unconfined aquifer groundwater elevations
- estimate the interconnection between the unconfined and confined aquifers (data permitting)
- estimate the effects of surface water on the shallow aquifer
- estimate the current extent and thickness of floating product observed on the water table (The extent and chemical nature of the product may be assessed during OU investigations.)

1.3 SITE DESCRIPTION

1.3.1 Location

Elmendorf AFB is adjacent to the Municipality of Anchorage, Alaska. It is bounded on the west and north by the Knik Arm of Cook Inlet, and on the east by Fort Richardson. Immediately to the south and southwest of the base lies urban development within the Municipality, including a large industrial warehouse district, a railroad switching yard, private and government fuel tank farms, and the Port of Anchorage (Figure 1.1).

In August 1990, the U.S. Environmental Protection Agency (EPA) formally included Elmendorf AFB on the National Priorities List (NPL) of facilities that might pose a danger to public health. Past studies have identified over 60 source areas on Elmendorf AFB that could potentially cause contamination and pose a threat to human health and the environment. These sources are located in areas developed for airfield operations (runways, taxiways, and maintenance buildings), base support operations, housing, and recreational facilities. Most of the development lies in the southern part of the base. For more thorough discussions of the contaminant sources and past investigations, refer to the *Basewide Investigation Work Plan* (CH2M HILL 1992b) and the *Installation Restoration Program Site Summary* (CH2M HILL 1991).

Approximately half of Elmendorf AFB remains undeveloped and is potentially suitable for background sample locations. Criteria used to select the locations for the background samples are discussed in Section 5.1.

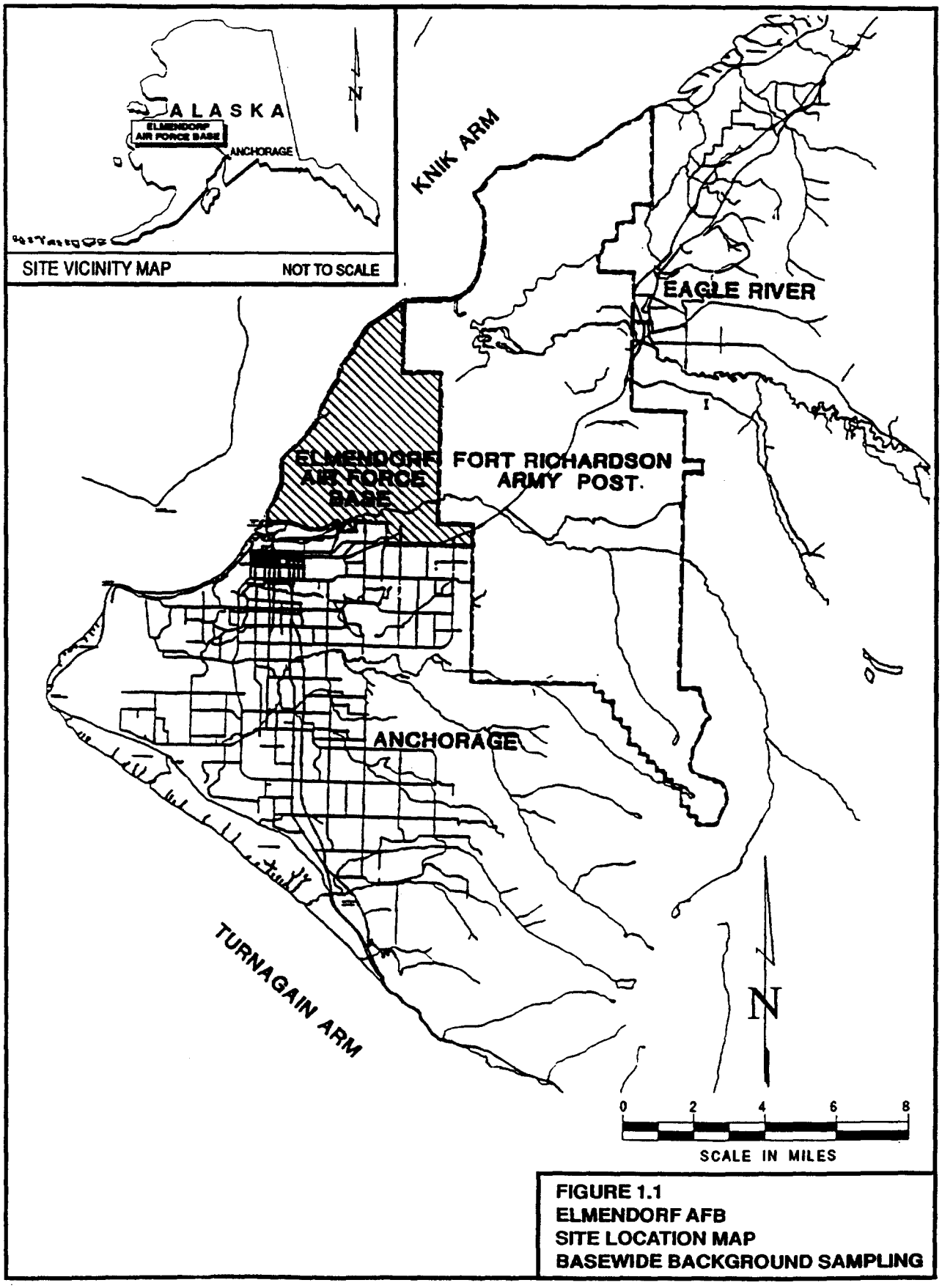


FIGURE 1.1
ELMENDORF AFB
SITE LOCATION MAP
BASEWIDE BACKGROUND SAMPLING

1.3.2 Geology and Soils

Two major landforms, moraine and glacial fluvial outwash plain, divide Elmendorf AFB (Figure 1.2). The southern boundary of the Elmendorf Terminal Moraine is visible as a rising bluff line on the north side of the east-west runway. The topography of this terminal moraine is rough and hilly with elevations ranging from 200 feet above mean sea level at the bluff edge of Knik Arm to about 380 feet at the eastern boundary. Relief is not a uniform slope; it reflects the hilly nature typical of an end moraine. Land features formed under or adjacent to glacier ice are part of a ground moraine (Elmendorf Moraine), which is north of the Elmendorf Terminal Moraine. These features include drumlins, eskers, kame terraces, and kettle lakes. The ground moraine slopes gently upward toward the east. Relief is relatively flat with elevations ranging from 125 to 210 feet above mean sea level.

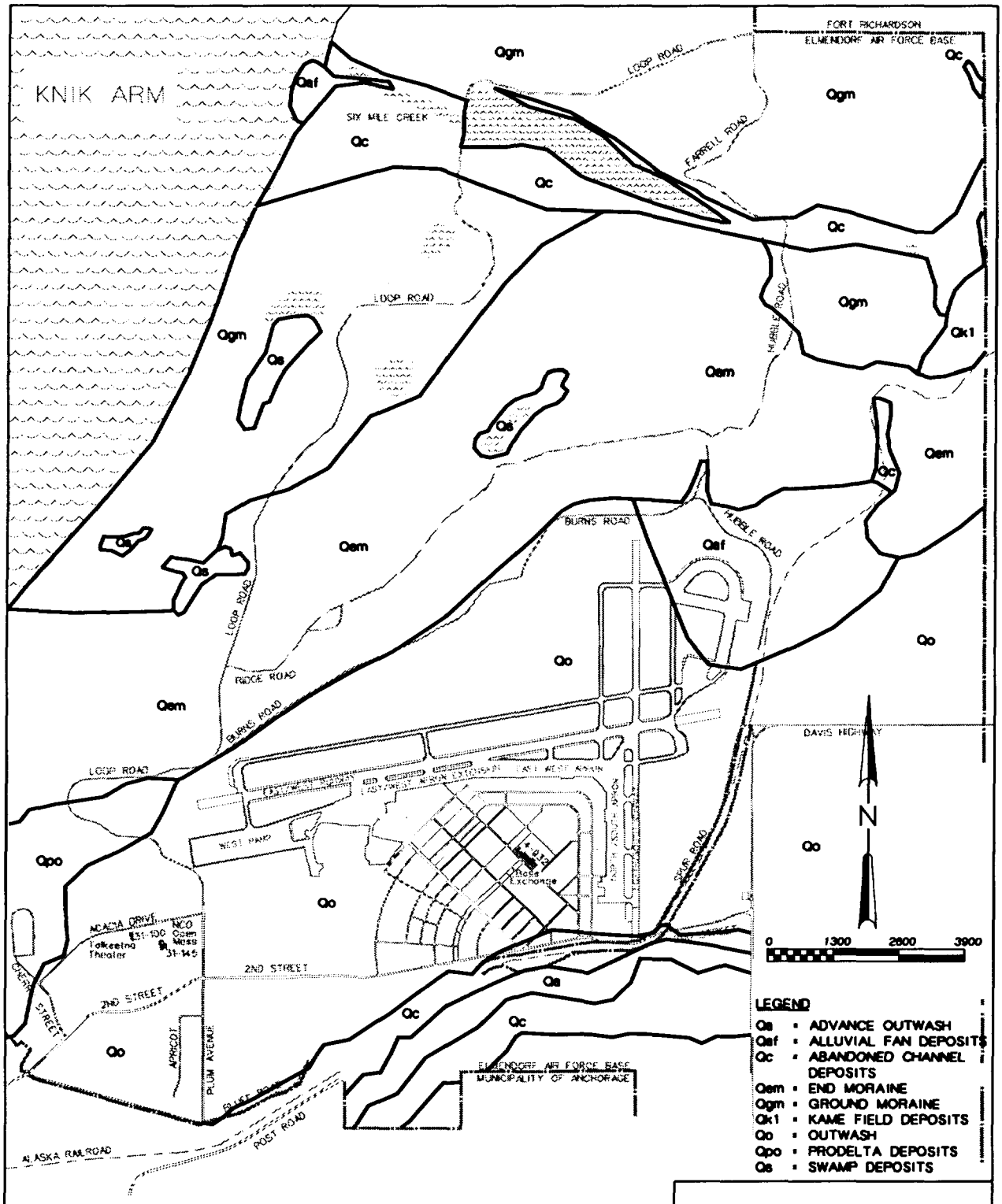
The smooth alluvial outwash plain south of the Elmendorf Terminal Moraine was formed by a series of coalescing streams from glacial meltwater. Although composed mainly of sand and gravel, the plain is also overlain with a thin veneer of loess (windblown silt). Relief is generally flat with elevations ranging from 25 feet along Knik Arm bluffs to 225 feet at the flank of the Elmendorf Moraine. The outwash plain has also been incised by stream channels, displaying the meandering nature of fast flowing streams in glacial material.

The soils of Elmendorf AFB have not been mapped by the Soil Conservation Service (SCS), although those adjacent to the AFB were mapped by the SCS in 1979 for the U.S. Army Corps of Engineers and the Municipality of Anchorage. Areas adjacent to the AFB that have been mapped indicate that the outwash plain consists primarily of Kasilof silt loam, 0 to 3 percent slopes, and that the Elmendorf Moraine and ground moraine consist of various phases of Homestead soils interspersed with delineations of Salamatof peat and Purches silt loam.

The soils of the outwash plain are well- to somewhat-excessively-drained coarse-grained soils formed in a mantle of loess overlying very gravelly alluvium. These soils are moderately permeable in the upper parts and very permeable at depths greater than 10 feet.

The soils found on the terminal moraine and the ground moraine have formed in either loess, glacial till, alluvium, or are organic soils. The difference in parent materials is a result of landscape position and glacial landforms where these soils formed. Phases of the Homestead series are found on better-drained surfaces of the moraine, and have formed in loess overlying glacial till that varies in compactedness. Phases of Purches silt loam have formed in glacial till on the edges of muskeg wetlands and slight depressions in glacial moraines. Subsequently, these soils are moderately-well-drained to somewhat-poorly-drained soils. Areas of Salamatof soils are organic soils occurring in broad basins and depressions on the ground and terminal moraines. To a depth of at least 63 inches, these soils consist of coarse sphagnum moss and sedge fibers.

Most of the developed areas on the base were built on alluvial material on the outwash plain in front of the Elmendorf Moraine. Of the sources currently being investigated at Elmendorf AFB, approximately 90 percent are on the glacial fluvial outwash plain. Among those sources not located on the outwash plain are two large tank farms (Sources ST41 and ST32) that sit on the southern edge of the Elmendorf Terminal Moraine. The drainages of the tank farms affect the terminal and ground moraines as well as the outwash plain. An old landfill (LF04) and two petroleum, oil, and lubricants (POL) sludge disposal areas (WP14 and SD15) are also on morainal soils.



SOURCE: USGS 1969. SURFICIAL GEOLOGY OF ANCHORAGE AND VICINITY, ALASKA. USGS BULLETIN 1093

FIGURE 1.2
LANDFORMS AND GEOLOGY OF ELMENDORF AFB

BASEWIDE BACKGROUND SAMPLING

1.3.3 Hydrogeology

Surface water bodies in the vicinity of Elmendorf AFB include rivers, creeks, sloughs, lakes, ponds, and wetlands. Two natural surface water drainage basins occur on the base:

- North of the Elmendorf Moraine, most surface water drains into the Six Mile Creek basin and then into Knik Arm. Six Mile Creek originates in wetlands on the boundary of Fort Richardson and Elmendorf AFB.

- South of the moraine, surface water drains south and west into Ship Creek. The upper Ship Creek basin is an important recharge area for the Anchorage confined aquifer and provides approximately one quarter of the total recharge to the system. Ship Creek originates in the Chugach Mountains to the east and flows through Fort Richardson before entering Elmendorf AFB.

Surface water flow and sediment movement is strongly influenced by the spring thaw, when large volumes of water are flushed through the surface water drainage system. Similar processes occur during heavy summer rains.

Contaminants are primarily mobilized either as dissolved constituents or adsorbed to particulate matter. Once introduced to the surface water systems, many contaminants undergo various transport, transformation, or degradation processes, including volatilization, adsorption, biodegradation or bioaccumulation, and photodegradation.

Two major sources of groundwater have been identified at Elmendorf AFB:

- a shallow, unconfined aquifer system

- a deeper, confined aquifer.

The shallow aquifer is composed of alluvial fan, alluvial and outwash deposits, morainal till deposits, and tidal deposits. South of the Elmendorf Moraine, most sediments consist of alluvial and outwash deposits of sands, gravels, and small amounts of silts with high permeability, a yield of 10 to 1500 gpm, and an aquifer thickness of 10 to 50 feet. The Elmendorf Moraine consists of till (a sand, silt, gravel, clay, and boulder mixture) with moderate permeability, a lower yield, and an aquifer thickness estimated at 10 to 300 feet.

The shallow-aquifer groundwater flow across the southern part of Elmendorf AFB occurs in a southerly or southwesterly direction. The actual groundwater velocity will depend on the hydraulic gradient, hydraulic conductivity, and porosity of the soil; all are moderate to high in the unconfined aquifer at the southern part of the base.

According to Black & Veatch (1990), the southern ridge of the Elmendorf Moraine is a groundwater divide for the upper, unconfined aquifer. Groundwater north of the moraine flows in a westerly direction toward Knik Arm. In general, Elmendorf AFB is downgradient from Fort Richardson. The major developments at Elmendorf AFB are upgradient of Ship Creek and the Municipality of Anchorage to the south.

The magnitude of seasonal water level fluctuations in the unconfined aquifer is not well known. Water levels are expected to rise in the spring in response to the spring thaw,

and through the summer from precipitation and the continued input from the Chugach Mountains. The levels should fall slowly in late summer and fall.

The Bootlegger Cove formation forms the lower limit of the shallow aquifer and is the confining layer of the deeper artesian aquifer (Figure 1.3). It is not known if connections between the aquifers exist under Elmendorf AFB, but the clay unit is assumed to retard, if not prevent, the downward migration of contaminants to the lower aquifer. Depth to Bootlegger Cove Clay varies from 2 to 140 feet. Regionally, the confined aquifer is thought to flow in a westerly direction from the Chugach Mountains to Knik Arm.

Past studies summarized in the *Installation Restoration Site Summary* (CH2M HILL 1991) and the *Basewide Investigation Work Plan* (CH2M HILL 1992b) have determined that the shallow aquifer has been contaminated under source areas at the base. Elmendorf AFB Bioenvironmental Engineering Services monitors the groundwater quality of the supply wells on base that draw from the deeper aquifer; to date, the water quality of that deeper aquifer has been good.

31026.F2.70 ELMENDORF OU4 FIG 1.3
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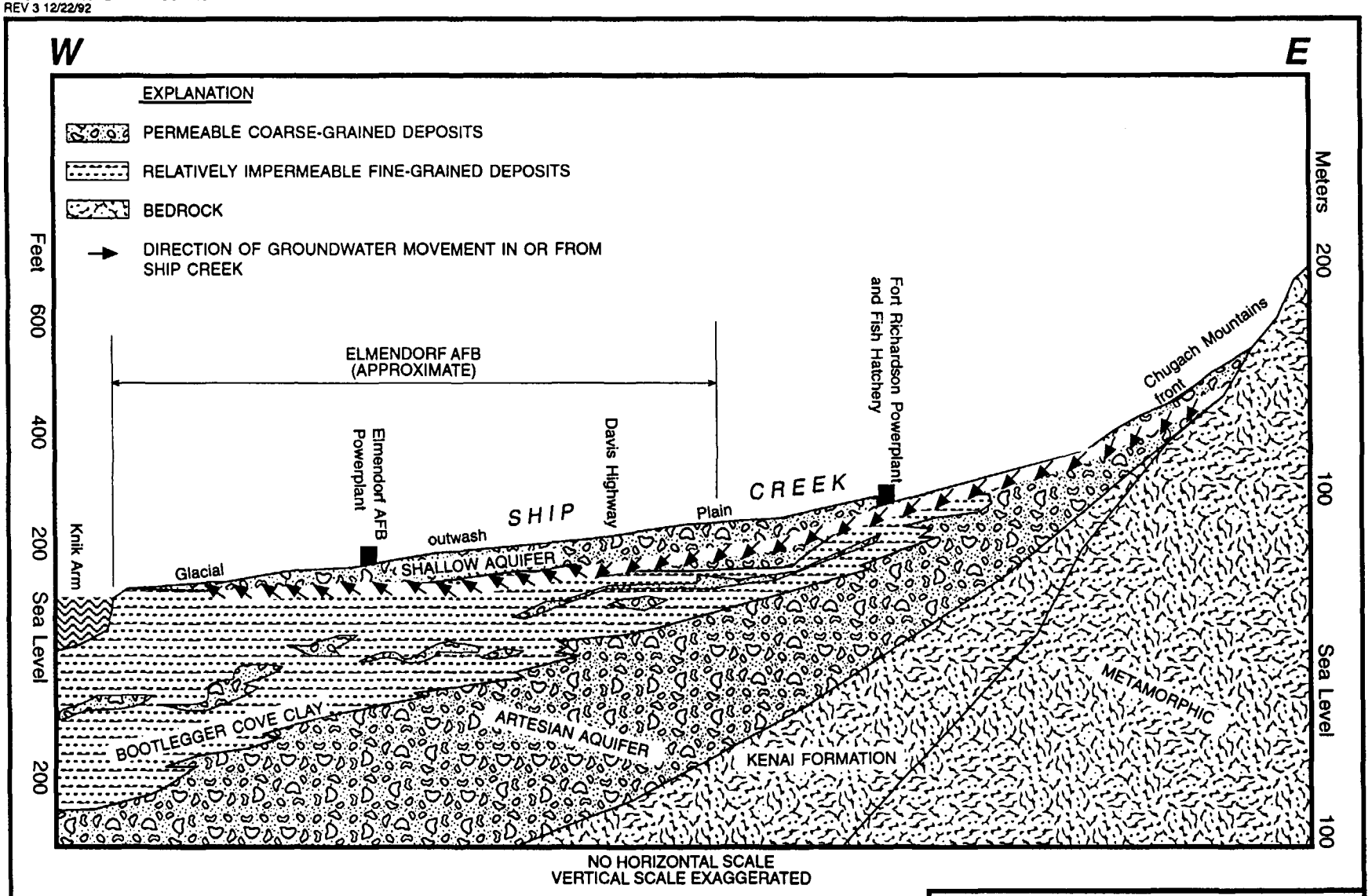


FIGURE 1.3
HYDROGEOLOGY OF ELMENDORF AFB
BASEWIDE BACKGROUND SAMPLING

SOURCE: MODIFIED FROM HARDING LAWSON ASSOCIATES, 1988

2.0 EXISTING DATA COMPILATION

2.0 EXISTING DATA COMPILATION

Three sources of existing data were reviewed and compiled, according to procedures described in the following sections. Sources of existing data are the USGS, an RI/FS completed by a previous contractor (Black & Veatch 1990), and data obtained by the base Bioenvironmental Engineering Services Group.

2.1 SUMMARY OF METHODS

Generally, the procedures for compiling the data were to:

- Review documents to determine which data were within the scope of this task.
- Establish a format in which to present the information, using location identifiers consistent with the most recent source area and operable unit identifications.
- Enter the data using version 3.5 of Paradox®, which is compatible with IRPIMS.
- Generate tables for the final report.
- Discuss observable trends.

The resulting tables and accompanying discussion of trends are presented in Appendix A.

Limitations on the use of certain data presented in the tables are as follows:

USGS Data

- Analytical methods were not cited in the USGS reports from which data were obtained (USGS 1988, 1989, 1991).
- Quality control test results were not available for the USGS data set.

Black & Veatch Data

- Quality control test results were available for only a part of the data set in the RI/FS report.
- Test methods, detection limits, and reporting units were difficult to extract from the report due to inconsistencies between the text and tables, and the presence of obvious errors.

Bioenvironmental Engineering Services Group Data

- In some instances, test methods were not clear. For example, naphthalene was reported as a volatile organic, but is typically tested as a semivolatile constituent.
- Quality control test results were not available for the data set.

The data tables in Appendix A (Attachments A, B, and C) may be used for qualitative information, but may not be suitable for EPA Level III purposes (such as risk assessments) due to the absence of quality control test results and data validation.

2.2 SUMMARY OF RESULTS

A search of the 30,000 database entries yielded only six possible trends. This low number was due to the fact that over 90 percent of the data were nondetects. The following trends were observed for inorganics:

- Iron appeared to increase in potable water from Well 27 from January 1984 to July 1990. The levels ranged from 103 μg/l to 148 μ/l.
- Iron levels at Six Mile Lake outfall increased from 104 μg/l in January 1985 to 1334 μg/l in November 1985.
- Iron levels observed in surface water from Ship Creek II decreased from 491 μg/l in October 1989 to 160 μg/l in October 1991.
- Potassium content in potable water from Well 27 also decreased slightly from January 1984 to July 1990. Levels decreased from 2.1 to 1.8 mg/l.

Two possible trends involving organics were observed:

- At Well 1 (potable water), 1,1,1-trichloroethane increased from 2.4 μg/l in May 1989 to 8.4 μg/l in July 1990.
- Petroleum hydrocarbons increased very slightly at groundwater sampling point GW-6A. The values ranged from 12 mg/l in July 1987, to 64 mg/l in August 1988; however, a duplicate sample on July 18, 1987 is recorded at 61 mg/l. Four of the total five points were dated during a 3-day period.

In all of the above cases, the end date was the most recent value recorded for that sampling point and parameter (no shift in the trend was observed).

3.0 AIR LITERATURE REVIEW

3.0 AIR LITERATURE REVIEW

3.1 METHODS

The status of air quality in the vicinity of Elmendorf AFB was evaluated through discussions with regulatory personnel, USAF personnel, and a search through available literature. Agencies contacted included ADEC; the Municipality of Anchorage, Department of Health and Human Services, Environmental Services Division; and the USAF Bioenvironmental Engineering Services Group (BESG). Available literature, such as reports from ambient air quality monitoring conducted in Alaska, indicated an absence of air toxics monitoring; however, the BESG had conducted an air sampling event. The results of the BESG air sampling are summarized below. Additionally, the document *The Air Toxics Problem in the United States: An Analysis of Cancer Risks for Selected Pollutants*, (EPA-450/1-85-001, May 1985) was reviewed to develop an overview of air monitoring.

3.2 RESULTS

3.2.1 Air Literature Review

Airborne pollutants are divided into two categories: criteria pollutants and air toxics. Criteria pollutants include carbon monoxide, nitrogen oxides, sulfur dioxide, lead, ozone, total particulate matter, and particulate matter less than 10 microns in size. All other pollutants are considered to be air toxics.

Literature reviews and discussions with local and state air quality representatives revealed that the Anchorage area is considered to be in compliance with existing ADEC standards and federal National Emission Standards for Hazardous Air Pollutants (NESHAP) for air toxics. ADEC administers air quality control regulations, but the EPA has established the ambient air standards for criteria pollutants and emission standards for a very small listing of air toxics. In general, EPA has established ambient air standards for criteria pollutants. Individual states have the authority to accept these standards or to establish ambient air standards that are more stringent, but in ADEC's case, the federal standards have been accepted. The EPA also administers the NESHAP program. In this program, standards have been established for only a very small number of air toxics, but the EPA delegates the authority to each state to implement and enforce NESHAP for stationary sources. In the case of Alaska, the EPA has not yet approved a delegation request from Alaska that would allow any Alaskan state entity to implement or enforce a state-administered NESHAP program.

The Alaska ambient air standards have not been incorporated into the BBS Report because the units of measure are not consistent for every criteria pollutant, making them cumbersome to list; there are different criteria for different classification areas; and there are different standards depending on the type of uses resulting in emissions. The Alaska air quality control regulations are described in the Alaska Administrative Code, Title 18, Environmental Conservation, Chapter 50—Air Quality Control: Effective May 26, 1972. The latest revision to these regulations was June 2, 1988.

Because of the cost and difficulties associated with conducting air toxics monitoring, this monitoring is performed only in locations where there is reason to suspect elevated levels of air toxics. This type of monitoring should be conducted for at least a year to be representative of various weather conditions occurring in the project area. In addition, many air toxics are organic and require the use of field gas chromatography for real time detection. General

sampling and analysis for organic air toxics would most likely require mass spectroscopy techniques. Although some sampling for air toxics using these techniques has been conducted in the United States, it is considered to be non-standard sampling.

Increased risks of cancer due to air toxics are typically due to large point sources and to exposure at home and in the work place. Risk studies assume continuous exposure to these toxics over a period of 70 years. A review of the document *The Air Toxics Problem in the United States: An Analysis of Cancer Risks for Selected Pollutants* (EPA-450/1-85-001, May 1985) indicates that the following air toxics constitute the major portion of increased risk in the United States: products of incomplete combustion (PICs), chromium, ethylene oxide, benzene, ethylene dibromide, chloroform, formaldehyde, carbon tetrachloride, coke oven emissions, cadmium, and vapors from gasoline components. This increased risk due to air toxics exposure does not include risks associated with indoor exposure, work place exposure, or exposure to tobacco smoke.

With the exception of carbon tetrachloride, which has a half-life of approximately 35 years, the majority of the toxic organic compounds have half-lives of hours and days in the atmosphere (EPA-450/1-85-001, May 1985). As a result, these toxic organic compounds do not accumulate in the atmosphere. The potential for exposure to these compounds would exist only at locations both near and downwind of the source. Therefore, to have a good chance of detection, sampling for toxic organic compounds must be conducted at the maximum impact point, and the results apply only to the actual days in which sampling was conducted.

There is no indication that occupants of Elmendorf AFB are subject to significant increases in cancer risk due to ambient levels of air toxics in the area. No major industrial sources of toxic organic compounds are located near the facility. Most of the fuels stored on the base are nonvolatile fluids such as JP-4 and diesel. These fluids have relatively low vapor pressures, less than 0.5 pounds per square inch, and are not considered significant sources of air toxics.

Based on the literature reviewed, baseline grab sampling for levels of toxic organic compounds would not provide significant information about Elmendorf AFB, since the life of these compounds is very short, and ambient levels can change radically within a short period of time. In addition, ambient levels in an area are dependent upon instantaneous meteorological conditions. Baseline grab sampling for toxic compounds would, therefore, probably not provide representative results for use in CERCLA risk assessments. However, grab sampling and analysis used in conjunction with air dispersion modeling may be conducted on selected source areas during the RI/FS process to obtain representative air emissions data for CERCLA risk assessment activities.

3.2.2 USAF Air Monitoring

In response to an ADEC study indicating the potential for exposure to vapors of fuel constituents to Government Hill residents during Port of Anchorage tank farm operations, the BESG conducted an air monitoring study at Elmendorf AFB and the Defense Fuels Supply Point (DFSP). The objective of this study was to assess whether occupants of base housing in the Cherry Hill and Citrus Avenue housing areas could be exposed to vapors of fuel constituents during fuel handling operations at the Port of Anchorage, and to assess the concentrations of fuel vapors that workers at the DFSP could potentially be exposed to.

3.2.2.1 Methods

Air sampling was conducted on August 6, 1992 by BESG during a fuel receiving operation by the Defense Fuel Agency (DFA). The DFA maintains and operates fuel tanks located at the Port of Anchorage. The types of fuel received by DFA includes JP-4 and JP-8 by tank car, pipeline, and rail car. During this study, 19 hours of air sampling occurred during the transfer of 840,000 gallons of JP-4 fuel by pipeline. Air samples were collected from three base housing locations and the DFSP as shown on Figure 3.1. The specific base housing locations were buildings 21-473A, 30-381A, and 21-431G. The sampling location near the DFSP was located in the vicinity of 1217 Port Road.

Samples were concentrated on SKC jumbo charcoal cartridges connected in series. Samples were collected with a Staplex Model VM-3 high volume pump calibrated at a flow rate of 4 liters per minute. The cartridges were analyzed according to NIOSH Method 1500 and 1501 for benzene, ethylbenzene, toluene, and hexane. The detection limit for the analyses conducted varied from 0.001 mg/m^3 to 0.003 mg/m^3. The samples were analyzed by Armstrong Laboratories located at Brooks AFB, San Antonio, Texas.

3.2.2.2 Results

Sample analytical results are summarized in Table 3.1. Detectable quantities of fuel constituents were detected at each sampling location with the exception of Building 21-473 in the Citrus Avenue housing area. At building 30-381A, benzene, hexane, and toluene were detected, but at the same order of magnitude as the analytical method detection limit. At building 21-4321G, hexane was detected at a concentration of 0.015 mg/m^3. At the DFSP, hexane was detected at 0.173 mg/m^3, benzene was detected at 0.032 mg/m^3, and toluene was detected at 0.019 mg/m^3.

3.2.2.3 Discussion of Results

Because benzene was the most toxic analyte under investigation, the BESG compared the detected concentrations of benzene to occupational health standards to assess the potential for worker exposure, and to EPA cancer risk levels to assess potential public health effects. Since NIOSH Method 1501 has a detection limit of 1 mg/m^3, comparisons could not be made to EPA's 10^{-6} risk level because this concentration is 0.1 $\mu g/m^3$.

Benzene was detected only at building 30-381G at a concentration of 0.001mg/m^3. This concentration is at the EPA 10^{-5} risk based level. All other constituents under investigation at the housing areas sampled are not considered carcinogens, and were either not detected or quantified at concentrations below existing standards.

At the DFSP, benzene was detected at concentrations in excess of EPA's 10^{-4} risk based level of 10 $\mu g/m^3$, but this concentration was below occupational health standards. The occupational health standards used by BESG to compare data included the Threshold Limit Value/Time Weighted Average of the American Conference of Governmental Industrial Hygienists (ACGIH), the Recommended Exposure Limit of the National Institute for Occupational Safety and Health (NIOSH), and the Permissible Exposure Limit of the Occupational Safety and Health Administration (OSHA).

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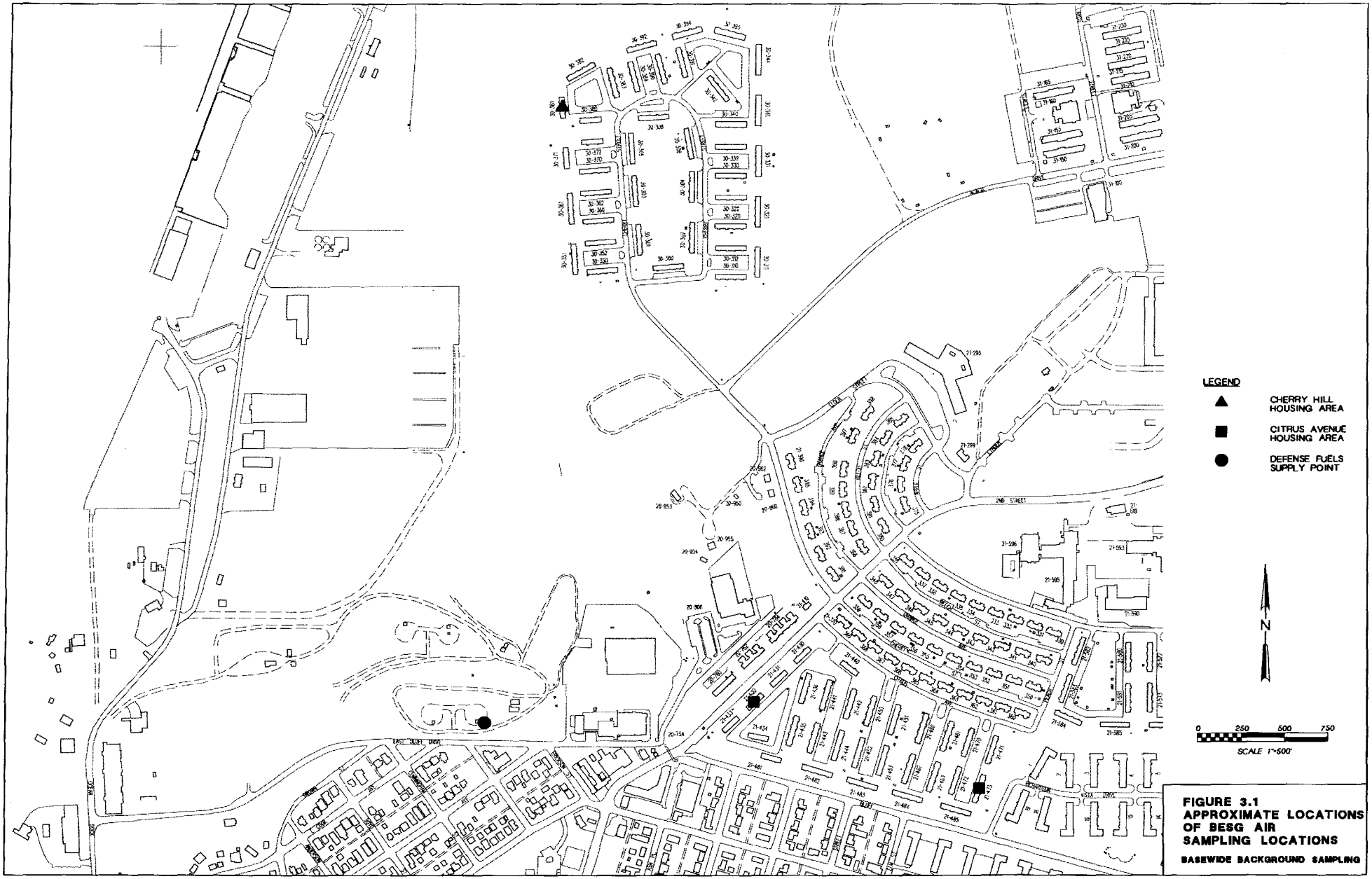


FIGURE 3.1
APPROXIMATE LOCATIONS OF BESG AIR SAMPLING LOCATIONS
BASEWIDE BACKGROUND SAMPLING

Table 3.1 Bioenvironmental Engineering Services Group Air Sampling Results		
Sampling Location	**Analyte**	**Analytical Results (mg/m^3)**
Building 21-4321G	Benzene	<.001
	Ethylbenzene	<.003
	Hexane	.015
	Toluene	<.004
Building 30-381A	Benzene	.001
	Ethylbenzene	<.001
	Hexane	.002
	Toluene	.002
Building 21-473	Benzene	<.001
	Ethylbenzene	<.002
	Hexane	<.002
	Toluene	<.002
Defense Fuels Supply Point	Benzene	.032
	Ethylbenzene	<.001
	Hexane	.173
	Toluene	.019

4.0 GROUNDWATER LEVEL MONITORING TASK

4.0 GROUNDWATER LEVEL MONITORING TASK

4.1 EVALUATION OF EXISTING GROUNDWATER WELLS

4.1.1 Inspection of Well Construction Logs

Geologic and construction logs were collected for all monitoring wells installed on Elmendorf AFB during previous investigations. Table 4.1, Monitoring Well Evaluation Information, summarizes the information on the existing wells and the references used to collect the information. Figure 4.1 shows the base supply and monitoring well locations at Elmendorf AFB. The geologic and well construction logs were reviewed and revised to parallel the format of an Installation Restoration Program Information Management System (IRPIMS) well-completion information file (BCHWCI).

It should be noted that the monitoring well information described above was not entered into the actual IRPIMS database; the IRPIMS BCHWCI format was used in Table 4.1 to provide consistency for future data reference.

IRPIMS format requires evaluation or review of the following information: Air Force installation identification, location identification, installation date, well owner code, well type classification code, well completion method code, geologic completion code, sole source aquifer code, seal end depth, filter pack length, measuring point elevation, total casing depth, casing diameter, casing material code, screen beginning depth, screen length, screen slot size, screen diameter, percent open area, and remarks. The database was organized and sorted according to OU designation, geologic material screened, and the CWLM preselection information.

Geologic and well construction logs for monitoring wells on Elmendorf AFB are included in Appendix B. In addition, a listing of relevant information for wells located within 1/4 mile of Elmendorf AFB are presented in Appendix C. According to the USAF and USGS files, no well construction logs exist for the base water supply wells. However, information has been requested from the U.S. Army Corps of Engineers.

Information from the monitoring well evaluation was compiled and analyzed to determine the best wells available for the installation of CWLM equipment. The evaluation information compiled in Table 4.1 was used to preselect wells based on the following criteria:

- The well must be within the aquifer zone of interest.
- The well must be completed properly with an adequate annular seal.
- The well construction must be properly documented, including the total depth and length of the screened interval.
- The well screen interval should be no more than 15 feet in length (to avoid acquiring a water level influenced by vertical gradients).

Of the 131 monitoring wells evaluated, 72 were preselected based on the results of the construction and boring log evaluations. Table 4.2 contains information for the preselected wells.

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Table 4.1
MONITORING WELL EVALUATION INFORMATION
ELMENDORF AFB, ANCHORAGE, ALASKA

AFIID	LOCID	INSDATE	WELCODE	BCHWCI WTCCODE	WCM CODE	GZC CODE	SEDEPTH	FPL	MPELEV*	TOT DEPTH	CAS DIAM	CMA CODE	SB DEPTH	SCR LENGTH	SOUA	SCR DIAM	SCREEN MATL	RECOM-MEND	DRILL DEPTH	OU DESIG	REMARKS
ELMN	BH-1	10-Aug-88	USAF	MNW	S	S	48	17	230.34	65	2	PVC	50	15	0.01	2	SAND	YES	65	MISC	
ELMN	BH-3	23-Aug-88	USAF	MNW	S	S	29.5	11	318.27	20	2	PVC	10	10	0.01	2	GVLY CLY	YES	40.5	MISC	
ELMN	BH-4	11-Aug-88	USAF	MNW	S	S	6	13.5	303.19	18	2	PVC	8	10	0.01	2	SAND	YES	19.5	MISC	
ELMN	BH-5	20-Aug-88	USAF	MNW	S	S	6	12	245.08	17	2	PVC	7	10	0.01	2	SAND	NO	18	MISC	IN SWAMP
ELMN	BH-6	5-Aug-88	USAF	MNW	S	S	4.5	6	145.38	10.1	2	PVC	5.1	5	0.02	2	SAND/GVL	YES	10.5	MISC	BOOTLEGGER CLAY @ 11'
ELMN	D13-01	16-Jul-88	USAF	MNW	S	S	33	22		55	2	PVC	35	20	0.01	2	GVL/SAND	NO	55	OU-1	CLAY LAYER 22-24 FT BGS, SCREEN LENGTH > 15'
ELMN	D13-02	16-Jul-88	USAF	MNW	S	S	29	17	210.96	46	2	PVC	31	15	0.02	2	GVL/SAND	YES	46	OU-1	BLACK CLAYEY MATERIAL @ 20'
ELMN	D13-03	18-Jul-88	USAF	MNW	S	S	28	25		53	2	PVC	33	20	0.01	2	GVL	NO	53	OU-1	ABANDONED BY JACOBS ENGINEERING, 3/1992
ELMN	GW-1A	10-Sep-86	USAF	MNW	S	S	41	10	217.91	51	2	PVC	41	10	0.01	2	SAND	YES	51.5	OU-1	
ELMN	GW-1B	21-Sep-86	USAF	MNW	S	S	34	10		44	2	PVC	34	10	0.01	2	SND/GRVL	YES	45	OU-1	ABANDONED BY JACOBS ENGINEERING, 3/1992
ELMN	GW-1C	22-Sep-86	USAF	MNW	S	S	40	10	211.45	49.5	2	PVC	40	10	0.01	2	SAND	YES	50	OU-1	
ELMN	GW-2A	18-Sep-86	USAF	MNW	S	S	40	10	222.19	50.5	2	PVC	40	10	0.01	2	SAND	YES	50.5	OU-1	
ELMN	GW-2B	19-Sep-86	USAF	MNW	S	S	29	10	201.23	41.5	2	PVC	29	10	0.01	2	SNDY GVL	YES	41.5	OU-1	
ELMN	GW-2C	23-Sep-86	USAF	MNW	S	S	27	10	197.12	37	2	PVC	27	10	0.01	2	SAND	YES	38	OU-1	
ELMN	NS2-01	15-Jul-88	USAF	MNW	S	S	24	32.5	211.34	50	2	PVC	30	20	0.01	2	GVL	NO	56.5	OU-1	SCREEN LENGTH > 15'
ELMN	NS2-02	15-Jul-88	USAF	MNW	S	S	33	22		55	2	PVC	35	20		2	SAND	NO	55	OU-1	SCREEN LENGTH > 15'
ELMN	W-1	10-Jun-84	USAF	MNW	S	S	30	25	211.54	59	2	PVC	30	25	0.01	2	SAND	NO	59	OU-1	
ELMN	W-2	12-Jun-84	USAF	MNW	S	S	30	25		57	2	PVC	30	25	0.01	2	GVLY SND	NO	16.5	OU-1	ABANDONED BY JACOBS ENGINEERING, 3/1992
ELMN	W-5	7-Jun-84	USAF	MNW	S	S	25	14	207.12	52	2	PVC	25	25	0.01	2	SAND	NO	56.5	OU-1	WELL COMPLETED IN LANDFILL
ELMN	W-6	8-Jun-84	USAF	MNW	S	S	30	25	201.04	57	2	PVC	30	25	0.01	2	SILT	NO	57	OU-1	WELL COMPLETED IN LANDFILL
ELMN	B1MW	8-May-91	USAF	MNW	S	S	17	18		35	4	ALUM	19	23	0.02	4	SAND	YES	35	OU-2	
ELMN	B2MW	9-May-91	USAF	MNW	S	S	17	13		30	2	ALUM	20	10	0.02	4	SAND	YES	30	OU-2	
ELMN	B3MW		USAF	MNW														YES		OU-2	
ELMN	B4MW		USAF	MNW														YES		OU-2	
ELMN	ST20-01	15-Oct-90	USAF	MNW	S	S	19	13.5	185.54	32.5	4	PVC	22	10	0.02	4	GVL/SAND	NO	34	OU-2	WELL LOGS NOT AVAILABLE UNTIL AFTER FINAL SELECTION, FLUSH MOUNT
ELMN	ST20-02	16-Oct-90	USAF	MNW	S	S	18.5	13.5	183.23	32	4	PVC	21.5	10	0.02	4	SAND/GVL	NO	32	OU-2	WELL LOGS NOT AVAILABLE UNTIL AFTER FINAL SELECTION, FLUSH MOUNT
ELMN	ST20-03	18-Oct-90	USAF	MNW	S	S	18	12	181.58	30	4	PVC	19.5	10	0.02	4	SAND/GVL	NO	30	OU-2	WELL LOGS NOT AVAILABLE UNTIL AFTER FINAL SELECTION, FLUSH MOUNT
ELMN	ST20-04	22-Oct-90	USAF	MNW	S	S			184.86									NO		OU-2	NO WELL COMPLETION LOG, FLUSH MOUNT
ELMN	ST20-05	23-Oct-90	USAF	MNW	S	S	17.5	12.5	181.22	30	4	PVC	19.5	10	0.02	4	GVL/SAND	NO	30	OU-2	WELL LOGS NOT AVAILABLE UNTIL AFTER FINAL SELECTION, FLUSH MOUNT
ELMN	ST-41-01	9-Jul-88	USAF	MNW	GS	C	28.5	15	279.7	45	2	PVC	30	15	0.02	2	GVL/SAND	NO	46.5	OU-2	25' OF CLAY
ELMN	ST-41-02	8-Jul-88	USAF	MNW	S	S	18	18.5	265.27	36.5	2	PVC	21.5	15	0.02	2	SND/SILT	YES	36.5	OU-2	
ELMN	ST-41-06	9-Jul-88	USAF	MNW	S	S	31	17	268.62		2	PVC	33	15	0.02	2	SILT	NO	48	OU-2	NO TOTAL CASING DEPTH ON LOG
ELMN	ST-41-07	8-Jul-88	USAF	MNW	S	C	31.5	25	268.11	55	2	PVC	40	15	0.02	2	CLY/SAND	YES	56.5	OU-2	WATER LEVEL ABOVE SCREEN BY 10 FEET
ELMN	ST-41-08	7-Jul-88	USAF	MNW	S	S	8	17	249.45	25	2	PVC	10	15	0.02	2	SAND	NO	26.5	OU-2	WELL COMPLETION LOG AND BORING LOG INFORMATION DO NOT MATCH, TD
ELMN	ST-41-10	14-Jul-88	USAF	MNW	S	S	7	8	235.13	10	2	PVC		5	0.01	2	CLAY	NO	15	OU-2	WELL COMPLETION LOG AND BORING LOG INFORMATION DO NOT MATCH
ELMN	ST-41-15	12-Jul-88	USAF	MNW	S	S	9	12	252.18	20	2	PVC	10	10	0.01	2	SAND	YES	21	OU-2	LOG HAS NO W.L. JUST WATER LENS AT 11-12.5 FEET
ELMN	ST-41-16	11-Jul-88	USAF	MNW	S	S	8	12	253.43	20	2	PVC	10	10	0.02	2	GVL/SAND	YES	20	OU-2	
ELMN	ST-41-18	11-Jul-88	USAF	MNW	S	S	6	12	242.65	18	2	PVC	8	10	0.02	2	SNDY SLT	YES	18	OU-2	WATER LEVEL BELOW TD
ELMN	ST-41-19	11-Jul-88	USAF	MNW	S	S	8	12	236.33	20	2	PVC	10	10	0.02	2	SNDY GVL	YES	20	OU-2	
ELMN	ST-41-20	23-Aug-88	USAF	MNW	S	S	2	6	218.78	8	2	PVC	3	5	0.01	2	PEAT	NO	8	OU-2	WELL COMPLETED IN PEAT, TD 8'
ELMN	ST-41-21	6-Nov-89	USAF	MNW	S	S	3.4	17.6	220.25	19.3	2	PVC	4.3	15	0.02	2	GRAVEL	YES	21	OU-2	
ELMN	ST-41-22	7-Nov-89	USAF	MNW	S	S	11	14	202.94	18.5	2	PVC	5.5	10	0.02	2	SLTY SND	YES	25	OU-2	WATER LEVEL ABOVE SCREEN CASING
ELMN	ST-41-23	8-Nov-89	USAF	MNW	S	S	5.85	14.15	207.57	18.65	2	PVC	8.65	10	0.02	2	CLY/SAND	YES		OU-2	
ELMN	ST-41-24	8-Nov-89	USAF	MNW	S	L	6.1	13.9	212.16	18.9	2	PVC	7.2	10	0.02	2	SILT/CLY	NO	20	OU-2	WELL LOGS NOT AVAILABLE
ELMN	ST-41-25	9-Nov-89	USAF	MNW	S	S	4.8	10.2	220.44	15	2	PVC	7	8	0.02	2	SNDY GVL	YES	15	OU-2	WELL LOGS NOT AVAILABLE
ELMN	ST-41-26	9-Nov-89	USAF	MNW	S	S	6	14	215.05	19	2	PVC	9	10	0.02	2	SILT/CLY	YES	20	OU-2	
ELMN	ST-41-27		USAF	MNW	S	S												NO		OU-2	WELL LOGS NOT AVAILABLE
ELMN	ST-41-28	11-Oct-90	USAF	MNW	S	S	11.5	12.5		24	4	PVC	14	10	0.02	4	SND/SILT	YES	24	OU-2	
ELMN	ST-41-29	12-Oct-90	USAF	MNW	S	S	3.25	10	216.16	13.25	4	PVC	3.25	9.5	0.02	4	SAND	YES	13.5	OU-2	
ELMN	ST-41-30	18-Oct-90	USAF	MNW	S	S	5	12	225.21	16	4	PVC	5.5	10	0.02	4	SILTY SND	YES	17	OU-2	
ELMN	ST-41-31	19-Oct-90	USAF	MNW	S	S	2.5	11	219.39	13.5	4	PVC	14.5	10	0.02	4	SILTY SND	YES	14.5	OU-2	
ELMN	ST-41-32	20-Oct-90	USAF	MNW	S	S	14	12.5	241.59	26.5	4	PVC	16	10	0.02	4	SILTY SND	YES	27.5	OU-2	
ELMN	ST-41-33A		USAF	MNW														YES		OU-2	WELL LOGS NOT AVAILABLE
ELMN	ST-41-34	19-Apr-91	USAF	MNW	S	S	2.5	27.5		25.5	4	PVC	5	20	0.02	4	SAND	NO		OU-2	SCREEN LENGTH > 15'
ELMN	ST-41-35		USAF	MNW														YES		OU-2	WELL LOGS NOT AVAILABLE
ELMN	W-7	13-Jun-84	USAF	MNW	S	S	3	22	218.09	25	2	PVC	3	22	0.01	2	SILT/SND	NO	25	OU-2	SCREEN LENGTH > 15'
ELMN	W-8	13-Jun-84	USAF	MNW	S	S	5	20	216.37	25	2	PVC	5	20	0.01	2	SND/SILT	NO	25	OU-2	SCREEN LENGTH > 15'
ELMN	W-10	18-Jun-84	USAF	MNW	S	S	5	25	149.33	30	2	PVC	5	25	0.01	2	SNDY SLT	NO	30	OU-3	BOTTOM 15 FEET SILTY CLAY, WELL SCREEN > 15'

Table 4.1 (Cont'd)

AFIID	LOCID	INSDATE	WELCODE	BCHWCI WTCCODE	WCM CODE	GZC CODE	SEDEPTH	FPL	MPELEV*	TOT DEPTH	CAS DIAM	CMA CODE	SB DEPTH	SCR LENGTH	SOUA	SCR DIAM	SCREEN MATL	RECOM-MEND	DRILL DEPTH	OU DESIG	REMARKS
ELMN	W-11	14-Jun-84	USAF	MNW	S	S	5	25	150.51	30	2	PVC	5	25	0.01	2	SND/SILT	NO	31.5	OU-3	WELL SCREEN > 15'
ELMN	W-12	15-Jun-84	USAF	MNW	S	S	10	25		35	2	PVC	10	25	0.01	2	SAND/CL	NO	36.5	OU-3	WELL SCREEN > 15'
ELMN	W-13	15-Jun-84	USAF	MNW	S	S	10	15	154.09	35	2	PVC	10	15	0.01	2	SND/SILT	YES	35.5	OU-3	
ELMN	IS7-01	22-Jul-88	USAF	MNW	S	S	10	17		27	2	PVC	12	15	0.01	2	SNDY GVL	NO	27	OU-4	FLUSH MOUNT
ELMN	IS8-01	22-Jul-88	USAF	MNW	S	S	18	17	154.53	35	2	PVC	20	15		2	SNDY GVL	YES	35	OU-4	
ELMN	IS-1	3-Aug-88	USAF	MNW	S	S	18	17	188.23	35	2	PVC	20	14.2	0.02	2	CRSE SND	YES	35	OU-4	
ELMN	IS-2	30-Jul-88	USAF	MNW	S	S	23	17	189.83	40	2	PVC	25	14.2	0.02	2	SAND/GVL	YES	40	OU-4	
ELMN	IS-3	1-Aug-88	USAF	MNW	S	S	25	17	202.73	50	2	PVC	35	14.2	0.02	2	SAND/GVL	YES	50	OU-4	
ELMN	IS-4	3-Aug-88	USAF	MNW	S	S	13	17	181.7	30	2	PVC	15	14.2	0.02	2	SAND/GVL	YES	30	OU-4	
ELMN	IS-5	4-Aug-88	USAF	MNW	S	S	43	17.5	216.09	60	2	PVC	45	14.2	0.02	2	SNDY GVL	NO	60.5	OU-4	FLUSH MOUNT
ELMN	IS-6	2-Aug-88	USAF	MNW	S	S	43	17	215.76	60	2	PVC	45	14.2	0.02	2	GVL/SAND	YES	60	OU-4	
ELMN	W-18	23-Jun-84	USAF	MNW	S	S	20	28	188.75	43	2	PVC	20	28	0.01	2	SAND/GVL	NO	47	OU-4	WELL SCREEN > 15'
ELMN	W-19	23-Jun-84	USAF	MNW	S	S	25	25	186.2	50	2	PVC	25	25	0.01	2	SAND/GVL	NO	51.5	OU-4	WELL SCREEN > 15'
ELMN	GW4-A	11-Sep-86	USAF	MNW	S	S	1	10	139.38	11	2	PVC	1	10	0.01	2	SAND	NO	16.5	OU-5	NO WELL SEAL
ELMN	GW6-A	13-Sep-86	USAF	MNW	S	S	28	10	140.27	38	2	PVC	28	10	0.01	2	SAND	YES	41.5	OU-5	
ELMN	NS3-02	1-Aug-88	USAF	MNW	S	S	5.5	21	121.13	24	2	PVC	4	20	0.01	2	COAL/S&G	NO	26.5	OU-5	
ELMN	NS3-03	30-Jul-88	USAF	MNW	S	S	3	12	111.92	14	2	PVC	4	10	0.01	2	SAND/GVL	YES	15	OU-5	
ELMN	NS3-06	3-Aug-88	USAF	MNW	S	S	25	25		48	2	PVC	28	20	0.01	2	GVL/SAND	NO	48	OU-5	WELL SCREEN > 15'
ELMN	SP1-01	5-Aug-88	USAF	MNW	S	S	3	17	100.69	20	2	PVC	5	15	0.01	2	FILL	NO	20	OU-5	COMPLETED IN FILL
ELMN	SP1-02	6-Aug-88	USAF	MNW	S	S	39	19	138.34	50	2	PVC	35	15	0.01	2	GVL/FILL	NO	58	OU-5	COMPLETED IN FILL, BOOTLEGGER CLAY AT 52'
ELMN	SP2-01	20-Jul-88	USAF	MNW	S	S	33	17	155.42	50	2	PVC	35	15		2	SND/GRVL	YES	50	OU-5	
ELMN	SP2/6-02	23-Jul-88	USAF	MNW	S	S	22	29.5	146.91	45	2	PVC	25	20	0.01	2	SAND	NO	51.5	OU-5	WELL SCREEN > 15', BOOTLEGGER CLAY AT 52 FEET
ELMN	SP2/6-03	25-Jul-88	USAF	MNW	S	S	27	23	144.39	50	2	PVC	30	20	0.01	2	FILL	NO	50	OU-5	WELL SCREEN > 15', BOOTLEGGER CLAY AT 52.5', WELL DRILLED IN FLY ASH
ELMN	SP2/6-04	28-Jul-88	USAF	MNW	S	S	30	23	143.21	50	2	PVC	30	20	0.01	2	FILL	NO	53	OU-5	WELL SCREEN > 15', BOOTLEGGER CLAY AT 54 FEET
ELMN	SP2/6-05	28-Jul-88	USAF	MNW	S	S	24	22	138.54	46	2	PVC	26	20	0.01	2	SAND	NO	46	OU-5	WELL SCREEN > 15', FREE PRODUCT ON WATER TABLE
ELMN	SP4-01	2-Aug-88	USAF	MNW	S	S	5.5	21	137.36	24	2	PVC	4	20	0.01	2	SAND/GVL	NO	26.5	OU-5	WELL SCREEN > 15'
ELMN	SP4-02	2-Aug-88	USAF	MNW	S	S	4.5	22	131.27	24	2	PVC	24	24	0.01	2	SAND/GVL	NO	26.5	OU-5	WELL SCREEN > 15', INACCURATE COMPLETION LOG
ELMN	SP4-03	4-Aug-88	USAF	MNW	S	S	33	22	173.67	55	2	PVC	35	20	0.01	2	SAND	NO	55	OU-5	WELL SCREEN > 15'
ELMN	W-14	21-Jun-84	USAF	MNW	S	S	3	22	137.63	25	2	PVC	3	22	0.01	2	SAND/GVL	NO	25	OU-5	WELL SCREEN > 15'
ELMN	W-16	20-Jun-84	USAF	MNW	S	S	25	28	140.81	55	2	PVC	25	28	0.01	2	GVLY SND	NO	52	OU-5	WELL SCREEN > 15', WELL CONSTRUCTION LOG INACCURATE TD
ELMN	D3-01	13-Jul-88	USAF	MNW	S	S	35	26.5	224.08	57	2	PVC	37	20	0.01	2	SND/SILT	NO	61.5	OU-6	
ELMN	D3-02	13-Jul-88	USAF	MNW	S	S	13	18		30	2	PVC	15	15	0.02	2	SLTY/SND	YES	31	OU-6	
ELMN	D3-03	13-Jul-88	USAF	MNW	S	S	8	10		20	2	PVC	10	10		2	SLTY GVL	YES	20	OU-6	
ELMN	K301	30-Nov-87	USAF	MNW	S	S	120	40	187.64	151	2	PVC	142	5	?	2	GVL	YES	183	OU-6	WELL REPORTEDLY FAILED DURING INSTALLATION, HARZA 1988.
ELMN	K302	15-Dec-87	USAF	MNW	S	S	54	26	234.52	83	2	PVC	77	5	?	2	FINE SND	NO	228	OU-6	WELL COMPLETION INFORMATION FROM DRAWING WITH ENGINEERS SCALE
ELMN	K303	12-May-88	USAF	MNW	S	S	124	14	145.68	134	2	PVC	125	10	?	2	SND/SILT	YES	145.6	OU-6	WELL COMPLETION INFORMATION FROM DRAWING WITH ENGINEERS SCALE
ELMN	K304	10-Dec-87	USAF	MNW	S	S	0	11		12	2	PVC	7.3	5	?	2	SAND	NO	25	OU-6	WELL COMPLETION INFORMATION FROM DRAWING WITH ENGINEERS SCALE, NO SEAL
ELMN	K306	23-May-88	USAF	MNW	S	S	2.7	5.3		8	2	PVC	2.7	5	?	2	SLTY SND	NO	26.5	OU-6	WELL COMPLETION INFORMATION FROM DRAWING WITH ENGINEERS SCALE
ELMN	K308	24-May-88	USAF	MNW	S	S	17.3	6.6		23.5	2	PVC	18	5	?	2	SAND	YES	25.5	OU-6	WELL COMPLETION INFORMATION FROM DRAWING WITH ENGINEERS SCALE
ELMN	K309	25-May-88	USAF	MNW	S	S	16.7	8		23.5	2	PVC	18	5	?	2	SAND	YES	25	OU-6	WELL COMPLETION INFORMATION FROM DRAWING WITH ENGINEERS SCALE
ELMN	K310	26-May-88	USAF	MNW	S	S	7.3	7.7		13.5	2	PVC	8	5	?	2	SAND	YES	22	OU-6	WELL COMPLETION INFORMATION FROM DRAWING WITH ENGINEERS SCALE
ELMN	FP-51	15-Jun-88	USAF	MNW	S	S	60	13	205.54	75.5	2	SLS	64	14	?	2	GVL SND	YES	102	OU-7	WELL COMPLETION INFORMATION FROM DRAWING WITH ENGINEERS SCALE
ELMN	FP-52	17-Jun-88	USAF	MNW	S	S	37.7	7	206.01	49	4	SLS	41	7	?	4	SAND	NO	49.5	OU-7	WELL COMPLETION INFORMATION FROM DRAWING WITH ENGINEERS SCALE
ELMN	FP-53	21-Jun-88	USAF	MNW	S	S	39.7	9.3	205.41	50	4	SLS	42	6.7	?	4	SND GVL	YES	50	OU-7	WELL COMPLETION INFORMATION FROM DRAWING WITH ENGINEERS SCALE
ELMN	FP-54	22-Jun-88	USAF	MNW	S	S	39.3	9.3	206.4	49.5	4	SLS	41.7	6.7	?	4	SNDY GVL	YES	49.5	OU-7	WELL COMPLETION INFORMATION FROM DRAWING WITH ENGINEERS SCALE
ELMN	FP-55	23-Jun-88	USAF	MNW	S	S	39.3	9.3	205.28	49.5	4	SLS	41	8	?	4	SNDY GVL	YES	50	OU-7	WELL COMPLETION INFORMATION FROM DRAWING WITH ENGINEERS SCALE
ELMN	FP-56	27-Jun-88	USAF	MNW	S	S	38	10	204.71	48.5	4	SLS	40.3	7	?	4	SNDY GVL	YES	49	OU-7	WELL COMPLETION INFORMATION FROM DRAWING WITH ENGINEERS SCALE
ELMN	GW-5A	14-Sep-86	USAF	MNW	S	S	40	10	206.21	50	2	PVC	40	10	0.01	2	CRSE SND	YES	51.5	OU-7	
ELMN	W-15	12-Jun-84	USAF	MNW	S	S	35	25	204.62	60	2	PVC	35	25	0.01	2	GVLY SND	YES	60.5	OU-7	
ELMN	GW-3A	12-Sep-86	USAF	MNW	S	S	23	10	174.65	33	2	PVC	23	10	0.01	2	SNDY GVL	YES	42	POL	
ELMN	GW-7A	10-Sep-86	USAF	MNW	S	S	30	10	181.19	40	2	PVC	30	10	0.01	2	SAND	YES	40	POL	
ELMN	PT-01	16-Aug-88	USAF	MNW	S	S	18	24	176.6	40	4	PVC	20	20	0.01	4	SAND	YES	42	POL	
ELMN	PT-03	12-Aug-88	USAF	MNW	S	S	18	22	176.5	40	2	PVC	20	20	0.01	2	GRAVEL	YES	40	POL	
ELMN	PT-04	17-Aug-88	USAF	MNW	S	S	56	22	176.17	40	2	PVC	20	20	0.01	2	GRVL/SND	NO	78	POL	BOOTLEGGER CLAY @ 78'
ELMN	W-9	18-Jun-84	USAF	MNW	S	S	10	26	215.94	36	2	PVC	10	25	0.01	2	SNDY GVL	NO	42	POL	WELL SCREEN > 15'
ELMN	SP14-01	28-Jul-88	USAF	MNW	S	S	23	17	181.94	40	2	PVC	25	15	0.02	2	SNDY GVL	YES	40	POL	
ELMN	SP14-02	29-Jul-88	USAF	MNW	S	S	28	17	181.26	45	2	PVC	30	15	0.02	2	SNDY GVL	YES	45	POL	
ELMN	SP15-1	19-Jul-88	USAF	MNW	S	S	22	17	185.03	39	2	PVC	24	15		2	SNDY GVL	YES	39	POL	
ELMN	SP15-2	21-Jul-88	USAF	MNW	S	S	23	17	184.58	40	2	PVC	25	15		2	SNDY GVL	YES	40	POL	
ELMN	SP7/10-01	26-Jul-88	USAF	MNW	S	S	13	22	169.28	34	2	PVC	14	20	0.01	2	GRAVEL	YES	35	POL	

Table 4.1 (Cont'd)

AFIID	LOCID	INSDATE	WELCODE	BCHWCI WTCCODE	WCM CODE	GZC CODE	SEDEPTH	FPL	MPELEV*	TOT DEPTH	CAS DIAM	CMA CODE	SB DEPTH	SCR LENGTH	SOUA	SCR DIAM	SCREEN MATL	RECOM-MEND	DRILL DEPTH	OU DESIG	REMARKS
ELMN	SP7/10-02	26-Jul-88	USAF	MNW	S	S	8	17	170.95	25	2	PVC	10	15	0.02	2	GVLY SND	YES	25	POL	
ELMN	SP7/10-03	27-Jul-88	USAF	MNW	S	S	13	17	181.46	30	2	PVC	15	15	0.02	2	SNDY GVL	YES	30	POL	
ELMN	SP7/10-04	27-Jul-88	USAF	MNW	S	S	13	17	177.04	30	2	PVC	15	15	0.01	2	SAND	YES	30	POL	
ELMN	W-17	19-Jun-84	USAF	MNW	S	S	23	27		50	2	PVC	23	27	0.01	2	SAND	YES	50.5	POL	
ELMN	W-3	22-Jun-84	USAF	MNW	S	S	10	25	178.59	35	2	PVC	10	25	0.01	2	SNDY GVL	NO	40	POL	
ELMN	W-4	22-Jun-84	USAF	MNW	S	S	5	25	170.48	32	2	PVC	5	25	0.01	2	SLTY CLY	NO	32	POL	
ELMN	T40001	8-Jul-88	USAF	MNW	S	S	85.2	32.8	243.63	100.5	2	PVC	88.8	11.2	?	2	GVLY SND	YES	119	UST	WELL COMPLETION INFORMATION FROM DRAWING WITH ENGINEERS SCALE
ELMN	T40107	5-Jul-88	USAF	MNW	S	S	15.9	15.5	230.48	29	2	PVC	18.5	10.9	?	2	SNDY GVL	YES	32	UST	WELL COMPLETION INFORMATION FROM DRAWING WITH ENGINEERS SCALE
ELMN	T40304	21-Jul-88	USAF	MNW	S	S	27.6	8.4	225.1	67	2	PVC	29.7	3.5	?	2	SNDY CLY	YES	92	UST	WELL COMPLETION INFORMATION FROM DRAWING WITH ENGINEERS SCALE
ELMN	T40503	24-Jul-88	USAF	MNW	S	S	84.8	24.8	224.56	100	2	PVC	89.2	10	?	2	SAND	YES	110	UST	WELL COMPLETION INFORMATION FROM DRAWING WITH ENGINEERS SCALE
ELMN	T40905	29-Jul-88	USAF	MNW	S	S	21.4	18.4	288.03	35	2	PVC	24.2	10.5	?	2	SILT	NO	40.5	UST	WELL COMPLETION INFORMATION FROM DRAWING WITH ENGINEERS SCALE
ELMN	T41206	1-Jul-88	USAF	MNW	S	S	16	14.2	290.09	29	2	PVC	18.4	10	?	2	SILT	YES	31	UST	WELL COMPLETION INFORMATION FROM DRAWING WITH ENGINEERS SCALE
ELMN	T41709	11-Jul-88	USAF	MNW	S	S	15.7	15	276.94	30	2	PVC	19.2	10	?	2	GVLY SND	YES	31.5	UST	WELL COMPLETION INFORMATION FROM DRAWING WITH ENGINEERS SCALE
ELMN	T42202	15-Jul-88	USAF	MNW	S	S	120	26.7	290.5	145	2	PVC	120	20	?	2	SAND	YES	174.5	UST	WELL COMPLETION INFORMATION FROM DRAWING WITH ENGINEERS SCALE
ELMN	T42810	12-Jul-88	USAF	MNW	S	S	19.5	18.4	305.15	36.5	2	PVC	25.9	10.4	?	2	GVLY SND	YES	39	UST	WELL COMPLETION INFORMATION FROM DRAWING WITH ENGINEERS SCALE

Wells are listed alphabetically by Operable Unit Designation:

AFIID	Air Force installation identification
LOCID	Well identifier
INSDATE	Well installation date
WELCODE	Well owner code
BCHWCI WTCCODE	Well type classification code
WCMCODE	Well completion method code (s=screen)
GZCCODE	Geologic completion zone (s=shallow aquifer)
SEDEPTH	seal end depth
FPL	filter pack length
MPELEV	Measuring point elevation
TOTDEPTH	total casing depth
CASDIAM	Casing inside diameter
CMACODE	Casing material code
SBDEPTH	Screen beginning depth
SCRLENGTH	Screen length
SOUA	Screen slot size
SCRDIAM	Screen diameter
SCREENMATL	Geologic screened material
RECOMMEND	Recommendation for CWLM per the criteria set forth in final SWLM selection memo
DRILLDEPTH	Total boring drill depth
OUDESIG	Operable Unit Designation
REMARKS	Comments regarding well construction
*	MP elevations are relative to OU-specific monuments and not to a basewide vertical datum. See Tables H.2 and H.3.

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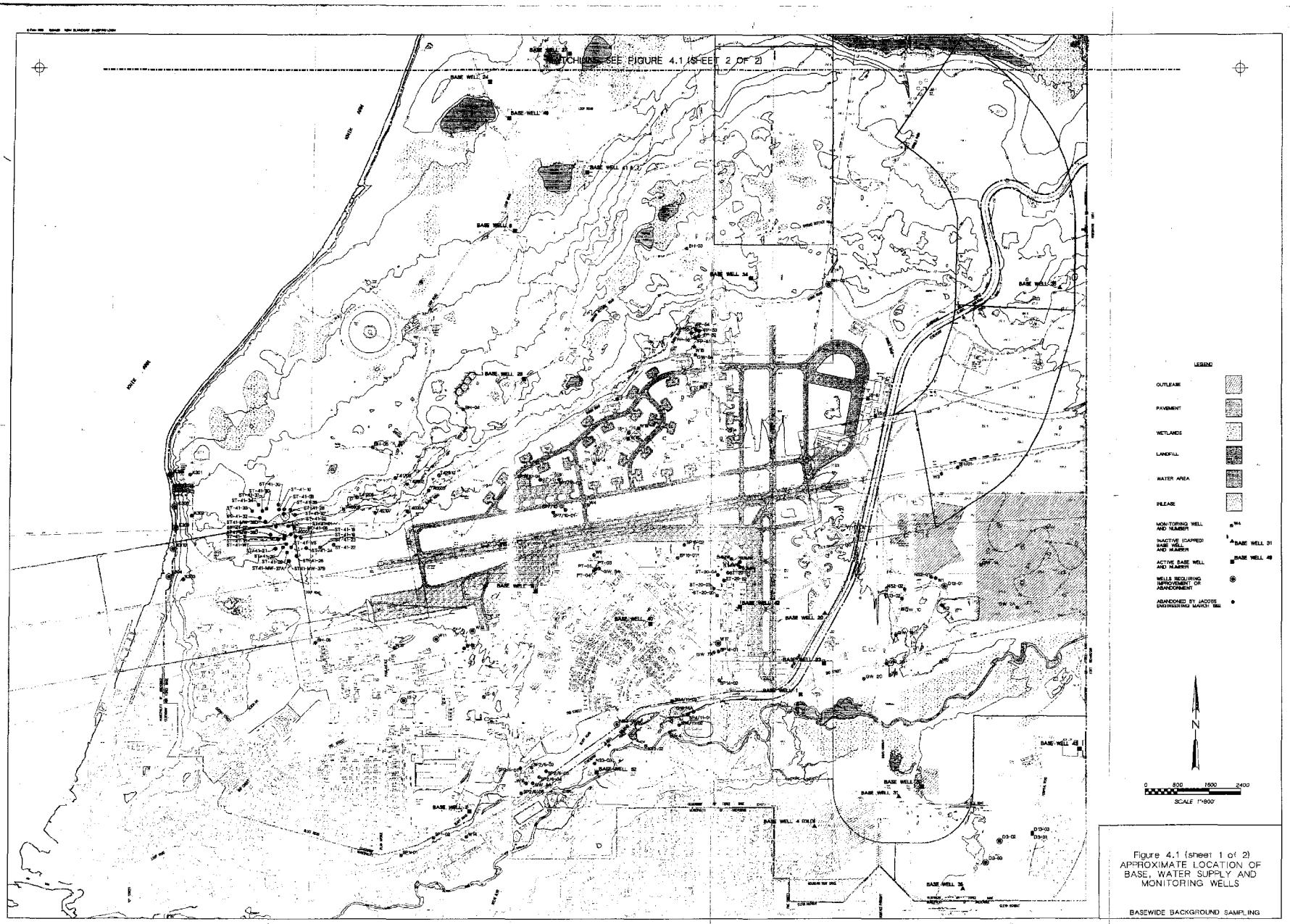


Figure 4.1 (sheet 1 of 2)
APPROXIMATE LOCATION OF BASE, WATER SUPPLY AND MONITORING WELLS

BASEWIDE BACKGROUND SAMPLING



Figure 4.1 (sheet 2 of 2)
APPROXIMATE LOCATION OF BASE, WATER SUPPLY AND MONITORING WELLS

BASEWIDE BACKGROUND SAMPLING

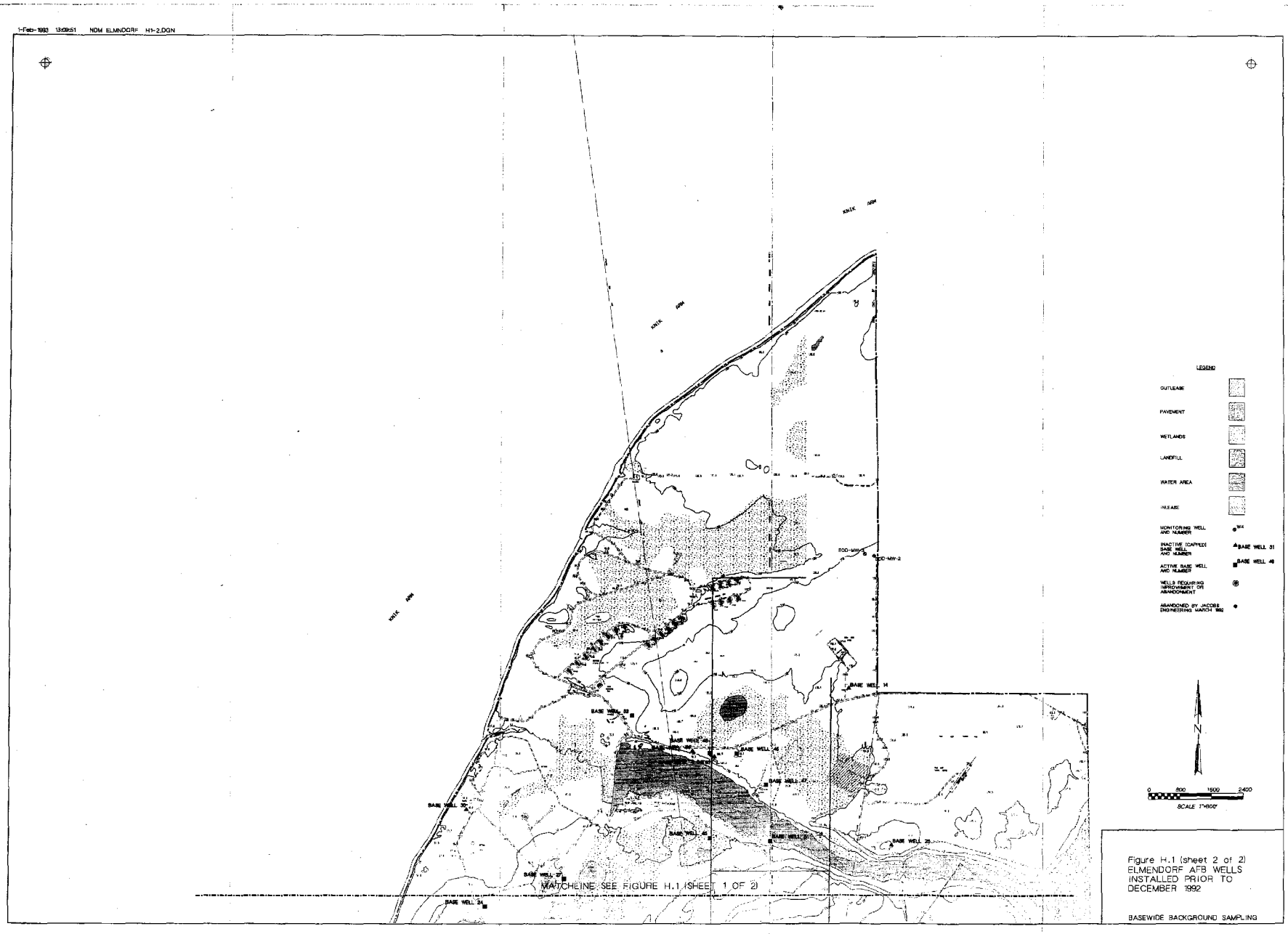


Figure H.1 (sheet 2 of 2)
ELMENDORF AFB WELLS
INSTALLED PRIOR TO
DECEMBER 1992

BASEWIDE BACKGROUND SAMPLING

Table 4.2
MONITORING WELL PASSING CONSTRUCTION/BORING LOG REVIEW
ELMENDORF AFB, ANCHORAGE, ALASKA

AFID	LOCID	INSDATE	WELCODE	BCHWCI WTCCODE	WCM CODE	GZC CODE	SEDEPTH	FPL	MPELEV*	TOT DEPTH	CAS DIAM	CMA CODE	SB DEPTH	SCR LENGTH	SOUA	SCR DIAM	SCREEN MATL	RECOM-MEND	DRILL DEPTH	OU DESIG	REMARKS
ELMN	BH-1	10-Aug-88	USAF	MNW	S	S	48	17	230.34	65	2	PVC	50	15	0.01	2	SAND	YES	65	MISC	
ELMN	BH-3	23-Aug-88	USAF	MNW	S	S	29.5	11	318.27	20	2	PVC	10	10	0.01	2	GVLY CLY	YES	40.5	MISC	
ELMN	BH-4	11-Aug-88	USAF	MNW	S	S	6	13.5	303.19	18	2	PVC	8	10	0.01	2	SAND	YES	19.5	MISC	
ELMN	BH-6	5-Aug-88	USAF	MNW	S	S	4.5	6	145.38	10.1	2	PVC	5.1	5	0.02	2	SAND/GVL	YES	10.5	MISC	BOOTLEGGER CLAY @ 11'
ELMN	D13-02	16-Jul-88	USAF	MNW	S	S	29	17	210.96	46	2	PVC	31	15	0.02	2	GVL/SAND	YES	46	OU-1	BLACK CLAYEY MATERIAL @ 20'
ELMN	GW-1A	10-Sep-86	USAF	MNW	S	S	41	10	217.91	51	2	PVC	41	10	0.01	2	SAND	YES	51.5	OU-1	
ELMN	GW-1C	22-Sep-86	USAF	MNW	S	S	40	10	211.45	49.5	2	PVC	40	10	0.01	2	SAND	YES	50	OU-1	
ELMN	GW-2A	18-Sep-86	USAF	MNW	S	S	40	10	222.19	50.5	2	PVC	40	10	0.01	2	SAND	YES	50.5	OU-1	
ELMN	GW-2B	19-Sep-86	USAF	MNW	S	S	29	10	201.23	41.5	2	PVC	29	10	0.01	2	SNDY GVL	YES	41.5	OU-1	
ELMN	GW-2C	23-Sep-86	USAF	MNW	S	S	27	10	197.12	37	2	PVC	27	10	0.01	2	SAND	YES	38	OU-1	
ELMN	ST-41-02	8-Jul-88	USAF	MNW	S	S	18	18.5	265.27	36.5	2	PVC	21.5	15	0.02	2	SND/SILT	YES	36.5	OU-2	
ELMN	ST-41-07	8-Jul-88	USAF	MNW	S	C	31.5	25	268.11	55	2	PVC	40	15	0.02	2	CLY/SAND	YES	56.5	OU-2	WATER LEVEL ABOVE SCREEN BY 10 FEET
ELMN	ST-41-15	12-Jul-88	USAF	MNW	S	S	9	12	252.18	20	2	PVC	10	10	0.01	2	SAND	YES	21	OU-2	LOG HAS NO W.L. JUST WATER LENS AT 11-12.5 FEET
ELMN	ST-41-16	11-Jul-88	USAF	MNW	S	S	8	12	253.43	20	2	PVC	10	10	0.02	2	GVL/SAND	YES	20	OU-2	
ELMN	ST-41-18	11-Jul-88	USAF	MNW	S	S	6	12	242.65	18	2	PVC	8	10	0.02	2	SNDY SLT	YES	18	OU-2	WATER LEVEL BELOW TD
ELMN	ST-41-19	11-Jul-88	USAF	MNW	S	S	8	12	236.33	20	2	PVC	10	10	0.02	2	SNDY GVL	YES	20	OU-2	
ELMN	ST-41-21	6-Nov-89	USAF	MNW	S	S	3.4	17.6	220.25	19.3	2	PVC	4.3	15	0.02	2	GRAVEL	YES	21	OU-2	
ELMN	ST-41-22	7-Nov-89	USAF	MNW	S	S	11	14	202.94	18.5	2	PVC	5.5	10	0.02	2	SLTY SND	YES	25	OU-2	WATER LEVEL ABOVE SCREEN CASING
ELMN	ST-41-23	8-Nov-89	USAF	MNW	S	S	5.85	14.15	207.57	18.65	2	PVC	8.65	10	0.02	2	CLY/SAND	YES		OU-2	
ELMN	ST-41-25	9-Nov-89	USAF	MNW	S	S	4.8	10.2	220.44	15	2	PVC	7	8	0.02	2	SNDY GVL	YES	15	OU-2	WELL LOGS NOT AVAILABLE
ELMN	ST-41-26	9-Nov-89	USAF	MNW	S	S	6	14	215.05	19	2	PVC	9	10	0.02	2	SILT/CLY	YES	20	OU-2	
ELMN	ST-41-31	19-Oct-90	USAF	MNW	S	S	2.5	11	219.39	13.5	4	PVC	14.5	10	0.02	4	SILTY SND	YES	14.5	OU-2	
ELMN	ST-41-32	20-Oct-90	USAF	MNW	S	S	14	12.5	241.59	26.5	4	PVC	16	10	0.02	4	SILTY SND	YES	27.5	OU-2	
ELMN	ST-41-34	19-Apr-91	USAF	MNW	S	S	2.5	27.5		25	4	PVC	5	20	0.02	4	GVL/SND	NO		OU-2	
ELMN	W-13	15-Jun-84	USAF	MNW	S	S	10	15	154.09	35	2	PVC	10	15	0.01	2	SND/SILT	YES	35.5	OU-3	
ELMN	IS8-01	22-Jul-88	USAF	MNW	S	S	18	17	154.53	35	2	PVC	20	15		2	SNDY/GVL	YES	35	OU-4	
ELMN	IS-1	3-Aug-88	USAF	MNW	S	S	18	17	188.23	35	2	PVC	20	14.2	0.02	2	CRSE SND	YES	35	OU-4	
ELMN	IS-2	30-Jul-88	USAF	MNW	S	S	23	17	189.83	40	2	PVC	25	14.2	0.02	2	SAND/GVL	YES	40	OU-4	
ELMN	IS-3	1-Aug-88	USAF	MNW	S	S	25	17	202.73	50	2	PVC	35	14.2	0.02	2	SAND/GVL	YES	50	OU-4	
ELMN	IS-4	3-Aug-88	USAF	MNW	S	S	13	17	181.7	30	2	PVC	15	14.2	0.02	2	SAND/GVL	YES	30	OU-4	
ELMN	IS-6	2-Aug-88	USAF	MNW	S	S	43	17	215.76	60	2	PVC	45	14.2	0.02	2	GVL/SAND	YES	60	OU-4	
ELMN	GW6-A	13-Sep-86	USAF	MNW	S	S	28	10	140.27	38	2	PVC	28	10	0.01	2	SAND	YES	41.5	OU-5	
ELMN	NS3-03	30-Jul-88	USAF	MNW	S	S	3	12	111.92	14	2	PVC	4	10	0.01	2	SAND/GVL	YES	15	OU-5	
ELMN	SP2-01	20-Jul-88	USAF	MNW	S	S	33	17	155.42	50	2	PVC	35	15		2	SND/GRVL	YES	50	OU-5	
ELMN	D3-02	13-Jul-88	USAF	MNW	S	S	13	18		30	2	PVC	15	15	0.02	2	SLTY/SND	YES	31	OU-6	
ELMN	D3-03	13-Jul-88	USAF	MNW	S	S	8	10		20	2	PVC	10	10		2	SLTY GVL	YES	20	OU-6	
ELMN	K303	12-May-88	USAF	MNW	S	S	124	14	145.68	134	2	PVC	125	10	?	2	SND/SILT	YES	145.6	OU-6	WELL COMPLETION INFORMATION FROM DRAWING WITH ENGINEERS SCALE
ELMN	K308	24-May-88	USAF	MNW	S	S	17.3	6.6		23.5	2	PVC	18	5	?	2	SAND	YES	25.5	OU-6	WELL COMPLETION INFORMATION FROM DRAWING WITH ENGINEERS SCALE
ELMN	K309	25-May-88	USAF	MNW	S	S	16.7	8		23.5	2	PVC	18	5	?	2	SAND	YES	25	OU-6	WELL COMPLETION INFORMATION FROM DRAWING WITH ENGINEERS SCALE
ELMN	K310	26-May-88	USAF	MNW	S	S	7.3	7.7		13.5	2	PVC	8	5	?	2	SAND	YES	22	OU-6	WELL COMPLETION INFORMATION FROM DRAWING WITH ENGINEERS SCALE
ELMN	FP-51	15-Jun-88	USAF	MNW	S	S	60	13	205.54	75.5	2	SLS	64	14	?	2	GVL SND	YES	102	OU-7	WELL COMPLETION INFORMATION FROM DRAWING WITH ENGINEERS SCALE
ELMN	FP-53	21-Jun-88	USAF	MNW	S	S	39.7	9.3	205.41	50	4	SLS	42	6.7	?	4	SND GVL	YES	50	OU-7	WELL COMPLETION INFORMATION FROM DRAWING WITH ENGINEERS SCALE
ELMN	FP-54	22-Jun-88	USAF	MNW	S	S	39.3	9.3	206.4	49.5	4	SLS	41.7	6.7	?	4	SNDY GVL	YES	49.5	OU-7	WELL COMPLETION INFORMATION FROM DRAWING WITH ENGINEERS SCALE
ELMN	FP-55	23-Jun-88	USAF	MNW	S	S	39.3	9.3	205.28	49.5	4	SLS	41	8	?	4	SNDY GVL	YES	50	OU-7	WELL COMPLETION INFORMATION FROM DRAWING WITH ENGINEERS SCALE
ELMN	FP-56	27-Jun-88	USAF	MNW	S	S	38	10	204.71	48.5	4	SLS	40.3	7	?	4	SNDY GVL	YES	49	OU-7	WELL COMPLETION INFORMATION FROM DRAWING WITH ENGINEERS SCALE
ELMN	GW-5A	14-Sep-86	USAF	MNW	S	S	40	10	206.21	50	2	PVC	40	10	0.01	2	CRSE SND	YES	51.5	OU-7	
ELMN	W-15	12-Jun-84	USAF	MNW	S	S	35	25	204.62	60	2	PVC	35	25	0.01	2	GVLY SND	YES	60.5	OU-7	
ELMN	GW-3A	12-Sep-86	USAF	MNW	S	S	23	10	174.65	33	2	PVC	23	10	0.01	2	SNDY GVL	YES	42	POL	
ELMN	GW-7A	10-Sep-86	USAF	MNW	S	S	30	10	181.19	40	2	PVC	30	10	0.01	2	SAND	YES	40	POL	
ELMN	PT-01	16-Aug-88	USAF	MNW	S	S	18	24	176.6	40	4	PVC	20	20	0.01	2	SAND	YES	42	POL	

Table 4.2 (Cont'd)

AFIID	LOCID	INSDATE	WELCODE	BCHWCI WTCCODE	WCM CODE	GZC CODE	SEDEPTH	FPL	MPELEV*	TOT DEPTH	CAS DIAM	CMA CODE	SB DEPTH	SCR LENGTH	SOUA	SCR DIAM	SCREEN MATL	RECOM-MEND	DRILL DEPTH	OU DESIG	REMARKS
ELMN	PT-03	12-Aug-88	USAF	MNW	S	S	18	22	176.5	40	2	PVC	20	20	0.01	2	GRAVEL	YES	40	POL	
ELMN	SP14-01	28-Jul-88	USAF	MNW	S	S	23	17	181.94	40	2	PVC	25	15	0.02	2	SNDY GVL	YES	40	POL	
ELMN	SP14-02	29-Jul-88	USAF	MNW	S	S	28	17	181.26	45	2	PVC	30	15	0.02	2	SNDY GVL	YES	45	POL	
ELMN	SP15-1	19-Jul-88	USAF	MNW	S	S	22	17	185.03	39	2	PVC	24	15		2	SNDY GVL	YES	39	POL	
ELMN	SP15-2	21-Jul-88	USAF	MNW	S	S	23	17	184.58	40	2	PVC	25	15		2	SNDY GVL	YES	40	POL	
ELMN	SP7/10-01	26-Jul-88	USAF	MNW	S	S	13	22	169.28	34	2	PVC	14	20	0.01	2	GRAVEL	YES	35	POL	
ELMN	SP7/10-02	26-Jul-88	USAF	MNW	S	S	8	17	170.95	25	2	PVC	10	15	0.02	2	GVLY SND	YES	25	POL	
ELMN	SP7/10-03	27-Jul-88	USAF	MNW	S	S	13	17	181.46	30	2	PVC	15	15	0.02	2	SNDY GVL	YES	30	POL	
ELMN	SP7/10-04	27-Jul-88	USAF	MNW	S	S	13	17	177.04	30	2	PVC	15	15	0.01	2	SAND	YES	30	POL	
ELMN	W-17	19-Jun-84	USAF	MNW	S	S	23	27		50	2	PVC	23	27	0.01	2	SAND	YES	50.5	POL	
ELMN	T40001	8-Jul-88	USAF	MNW	S	S	85.2	32.8	243.63	100.5	2	PVC	88.8	11.2	?	2	GVLY SND	YES	119	UST	WELL COMPLETION INFORMATION FROM DRAWING WITH ENGINEERS SCALE
ELMN	T40107	5-Jul-88	USAF	MNW	S	S	15.9	15.5	230.48	29	2	PVC	18.5	10.9	?	2	SNDY GVL	YES	32	UST	WELL COMPLETION INFORMATION FROM DRAWING WITH ENGINEERS SCALE
ELMN	T40304	21-Jul-88	USAF	MNW	S	S	27.6	8.4	225.1	67	2	PVC	29.7	3.5	?	2	SNDY CLY	YES	92	UST	WELL COMPLETION INFORMATION FROM DRAWING WITH ENGINEERS SCALE
ELMN	T40503	24-Jul-88	USAF	MNW	S	S	84.8	24.8	224.56	100	2	PVC	89.2	10	?	2	SAND	YES	110	UST	WELL COMPLETION INFORMATION FROM DRAWING WITH ENGINEERS SCALE
ELMN	T41206	1-Jul-88	USAF	MNW	S	S	16	14.2	290.09	29	2	PVC	18.4	10	?	2	SILT	YES	31	UST	WELL COMPLETION INFORMATION FROM DRAWING WITH ENGINEERS SCALE
ELMN	T41709	11-Jul-88	USAF	MNW	S	S	15.7	15	276.94	30	2	PVC	19.2	10	?	2	GVLY SND	YES	31.5	UST	WELL COMPLETION INFORMATION FROM DRAWING WITH ENGINEERS SCALE
ELMN	T42810	12-Jul-88	USAF	MNW	S	S	19.5	18.4	305.15	36.5	2	PVC	25.9	10.4	?	2	GVLY SND	YES	39	UST	WELL COMPLETION INFORMATION FROM DRAWING WITH ENGINEERS SCALE

Wells are listed alphabetically by Operable Unit Designation:

AFIID	Air Force installation identification
LOCID	Well identifier
INSDATE	Well installation date
WELCODE	Well owner code
BCHWCI WTCCODE	Well type classification code
WCMCODE	Well completion method code (s=screen)
GZCCODE	Geologic completion zone (s=shallow aquifer)
SEDEPTH	seal end depth
FPL	filter pack length
MPELEV	Measuring point elevation
TOTDEPTH	total casing depth
CASDIAM	Casing inside diameter
CMACODE	Casing material code
SBDEPTH	Screen beginning depth
SCRLENGTH	Screen length
SOUA	Screen slot size
SCRDIAM	Screen diameter
SCREENMATL	Geologic screened material
RECOMMEND	Recommendation for CWLM per the criteria set forth in final SWLM selection memo
DRILLDEPTH	Total boring drill depth
OUDESIG	Operable Unit Designation
REMARKS	Comments regarding well construction
*	MP elevations are relative to OU-specific monuments and not to a basewide vertical datum. See Tables H.2 and H.3.

REFERENCES:

Black & Veatch. 1990. Installation Restoration Program, Stage 3, Remedial Investigation/Feasibility Study, Report for Elmendorf AFB, Alaska. Prepared for Headquarters Alaskan Air Command, Elmendorf AFB, Alaska. May.

Dames & Moore. 1986. Installation Restoration Program, Phase II, Confirmation/Qualification, Stage 2, Elmendorf AFB, Alaska. Final Report prepared for Alaskan Air Command, Elmendorf AFB, Alaska. March.

Dames & Moore. 1986. Installation Restoration Program, Phase II, Confirmation/Qualification, Stage 2, Elmendorf AFB, Alaska. Final Report prepared for Alaskan Air Command, Elmendorf AFB, Alaska. March.

James Montgomery Consulting Engineers, Inc. (JMCE) and Harza Environmental Services, Inc. (HES). 1988. Elmendorf AFB Restoration Project, Remedial Investigation: Field Activities and Data Analysis. Volumes I and II. September.

4.1.2 Monitoring Well Field Inspection

Following the initial monitoring well evaluation and preselection for CWLM, a field inspection was conducted to assess the condition of each monitoring well. The following criteria were used to evaluate the monitoring wells as candidates for CWLM:

- The monitoring well must be accessible and its surface completion in good condition.
- Field measurements of the monitoring well must closely match those listed on the well completion log.
- The well must not have a flush-mount surface completion because installation of the CWLM equipment requires an 8-inch-diameter PVC pipe (CWLM housing) to be strapped to the surface completion to protect the equipment, and flush-mounted wells are difficult to locate in deep snow.

Inspection of the monitoring wells located on Elmendorf AFB began on June 3 and continued through June 10, 1992. Information collected during the field inspection included

- Measurements of the well's surface completion
- A description of the conditions of the well's surface completion and PVC casing
- Measurement of the well's depth to water, total casing depth, and the existence of DNAPL and LNAPL.

The depth to water, LNAPL, DNAPL, and total casing depth measurements were collected from every monitoring well on site, with the exception of monitoring wells that either have not been found, had obstructions in the casing, or were previously abandoned.

4.1.3 Final Selection of Wells for CWLM Locations

Following the field inspection, 38 candidate CWLM wells remained. Table 4.3 contains information for the candidate CWLM wells. The following set of hydrogeologic criteria was developed from the BBSP and used to facilitate the final selection of CWLM sites:

- The CWLM network in the shallow aquifer must be distributed throughout the OU areas to allow assessment of hydrogeologic conditions.
- Shallow aquifer CWLM sites used for surface/groundwater interaction should be located as close as possible to Ship Creek, preferably within 1/2 mile.
- Several wells must be located near confined aquifer wells to enable the assessment of interaction between shallow and confined aquifers. Additionally, water levels from these wells may enable the seasonal and long-term confined aquifer fluctuations to be evaluatd.

TABLE 4.3. Monitoring Wells Passing Construction/Boring Log Review and Field Inspection							
LOCID	INSDATE	GZC CODE	TOT DEPTH	SCR LENGTH	SCREEN MATL	OU DESIG	REMARKS
BH-1	10-AUG-88	S	65	15	SAND	MISC	
BH-3	23-AUG-88	S	20	10	GVLY CLY	MISC	
BH-4	11-AUG-88	S	18	10	SAND	MISC	
BH-6	5-AUG-88	S	10.1	5	SAND/GVL	MISC	Bootlegger Cove Clay @ 11 ft
GW-1A	10-SEP-86	S	51	10	SAND	OU 1	
GW-1C	22-SEP-86	S	49.5	10	SAND	OU 1	
GW-2A	18-SEP-86	S	50.5	10	SAND	OU 1	
GW-2B	19-SEP-86	S	41.5	10	SNDY GVL	OU 1	
GW-2C	23-SEP-86	S	37	10	SAND	OU 1	
ST-41-02	8-JUL-88	S	36.5	15	SND/SILT	OU 2	
ST-41-07	8-JUL-88	C	55	15	CLY/SAND	OU 2	Water level above screen by 10 feet
ST-41-15	12-JUL-88	S	20	10	SAND	OU 2	Log has no W.L. Just water lense at 11-12.5 ft
ST-41-16	11-JUL-88	S	20	10	GVL/SAND	OU 2	
ST-41-18	11-JUL-88	S	18	10	SNDY SLT	OU 2	Water level below td
ST-41-19	11-JUL-88	S	20	10	SNDY GVL	OU 2	
ST-41-21	6-NOV-89	S	19.3	15	GRAVEL	OU 2	
ST-41-25	9-NOV-89	S	15	8	SNDY GVL	OU 2	Well logs not available
ST-41-26	9-NOV-89	S	19	10	SILT/CLY	OU 2	
W-13	15-JUN-84	S	35	15	SND/SILT	OU 3	
IS8-01	22-JUL-88	S	35	15	SNDY/GVL	OU 4	
GW-6A	13-SEP-86	S	38	10	SAND	OU 5	
NS3-03	30-JUL-88	S	14	10	SAND/GVL	OU 5	

TABLE 4.3. (Cont'd.)

LOCID	INSDATE	GZC CODE	TOT DEPTH	SCR LENGTH	SCREEN MATL	OU DESIG	REMARKS
SP2/6-01	20-JUL-88	S	50	15	SND/GRVL	OU 5	
K303	12-MAY-88	S	134	10	SND/SILT	OU 6	Well completion information from drawing with engineers scale
GW-5A	14-SEP-86	S	50	10	CRSE SND	OU 7	
GW-3A	12-SEP-86	S	33	10	SNDY GVL	POL	
GW-7A	10-SEP-86	S	40	10	SAND	POL	
SP14-01	28-JUL-88	S	40	15	SNDY GVL	POL	
SP14-02	29-JUL-88	S	45	15	SNDY GVL	POL	
SP15-1	19-JUL-88	S	39	15	SNDY GVL	POL	
SP7/10-04	27-JUL-88	S	30	15	SAND	POL	
T40001	8-JUL-88	S	100.5	11.2	GVLY SND	UST	Well completion information from drawing with engineers scale
T40107	5-JUL-88	S	29	10.9	SNDY GVL	UST	Well completion information from drawing with engineers scale
T40304	21-JUL-88	S	67	3.5	SNDY CLY	UST	Well completion information from drawing with engineers scale
T40503	24-JUL-88	S	100	10	SAND	UST	Well completion information from drawing with engineers scale
T41206	1-JUL-88	S	29	10	SILT	UST	Well completion information from drawing with engineers scale
T41709	11-JUL-88	S	30	10	GVLY SND	UST	Well completion information from drawing with engineers scale
T42810	12-JUL-88	S	36.5	10.4	GVLY SND	UST	Well completion information from drawing with engineers scale

Wells are listed alphabetically by Operable Unit Designation

LOCID	Well identifier
INSDATE	Well installation date
GZCCODE	Geologic completion zone (s=shallow aquifer)
TOTDEPTH	Total casing depth
SCRLENGTH	Screen length
SCREENMATL	Geologic screened material
OUDESIGNATION	Operable Unit Designation
REMARKS	Comments regarding well construction

Based on the above criteria, 12 monitoring wells were selected as CWLM sites for the shallow aquifer. In addition, three base water supply wells were selected as CWLM sites. In the confined aquifer, access to the base water supply wells would require modifications to the wells' surface completions. A Ship Creek gaging station (gaging station-dam) was proposed to evaluate shallow aquifer/confined aquifer/surface water interaction.

Regulatory agencies requested that a second gaging station (gaging station-bridge) be located on Ship Creek near the boundary between Elmendorf AFB and Fort Richardson. Table 4.4 lists the selected CWLM sites and their hydrogeologic significance. Figure 4.2 shows the locations of the CWLM wells in relation to Ship Creek, the OU areas, and the base water supply wells.

4.2 CWLM Installation

4.2.1 Selection of CWLM Equipment

In cooperation with CH2M HILL, Battelle/EMO developed bid specifications for CWLM equipment. Battelle coordinated the bid specification, the final selection of equipment, and the equipment purchasing. The CWLM equipment specifications are described below:

- Data Logger
  - One or more input channels compatible with output signal from specified pressure transducer
  - Analog/digital resolution of at least 0.01 percent over the temperature range of -20° to 120°F
  - Minimum storage capacity of 9,000 data points consisting of date, time, and pressure readings
  - Programmable data sampling intervals from 1 minute or less to 6 hours or more (logarithmic sampling option desirable)
  - RS-232 port for downloading data
  - Unattended battery operation for a minimum of 1 year, with readings recorded hourly
  - Logger and battery power supply operable to minimum temperatures of -20°F (lithium batteries recommended)
  - Stored data to remain intact if power supply fails and to temperatures of -40°F.
- Pressure Transducer
  - Designed to be installed in a well
  - Diameter to be no greater than 1.5 inches
  - Output to be compatible with specified data logger

TABLE 4.4. CWLM Monitoring Locations
Elmendorf AFB, Anchorage, Alaska

Loc ID	Tot Depth	Screen Matl	OU Designation	Hydrogeologic Significance
BH-1	65	Sand	Misc	Upgradient well for shallow aquifer flow direction
BH-6	10.1	Sandy gravel	Misc	Shallow aquifer flow direction
GW-2b	29	Sandy gravel	OU 1	Shallow aquifer flow direction
ST41-18	18	Sandy silt	OU 2	Proximity to contamination, shallow aquifer flow direction
IS8-01	35	Sandy gravel	OU 4	Shallow aquifer flow direction
NS3-03	14	Sand/gravel	OU 5	Surface water/shallow aquifer interaction, shallow/confined aquifer interaction, shallow aquifer flow direction
Gauging Station-Dam	N/A	N/A	N/A	Surface water/shallow aquifer interaction, surface water/confined aquifer interconnection
SP2/6-01	50	Sandy gravel	OU 5	Shallow aquifer flow direction
D3-01	57	Silty sand	OU 6	Upgradient well for shallow groundwater flow direction
GW-5a	50	Sand	OU 7	Upgradient well for shallow aquifer flow direction
SP15-01	39	Sandy gravel	POL	Shallow aquifer flow direction
SP14-02	28	Sandy gravel	POL	Shallow aquifer flow direction, surface water/shallow aquifer interaction, shallow/confined aquifer interaction
T40503	100	Sand	UST	Proximity to contamination, shallow aquifer flow direction
BW-40	228	?	Base supply well	Confined aquifer flow direction; shallow/confined aquifer interaction
BW-50	158	?	Base supply well	Confined aquifer flow direction, shallow/confined aquifer interaction
BW-52	166	?	Base supply well	Confined aquifer flow direction, shallow/confined aquifer interaction, confined aquifer/surface water interaction
Gauging Station-Bridge	N/A	N/A	N/A	Surface water/shallow aquifer interaction, surface water/confined aquifer interaction

Wells are listed alphabetically by operable unit designation:

Loc ID	Well Identifier
Tot Depth	Total casing depth
Screen Matl	Geologic screened material
OU Designation	Operable unit designation
Hydrogeologic Significance	Hydrogeologic criteria specified in basewide background sampling plan
N/A	Not applicable

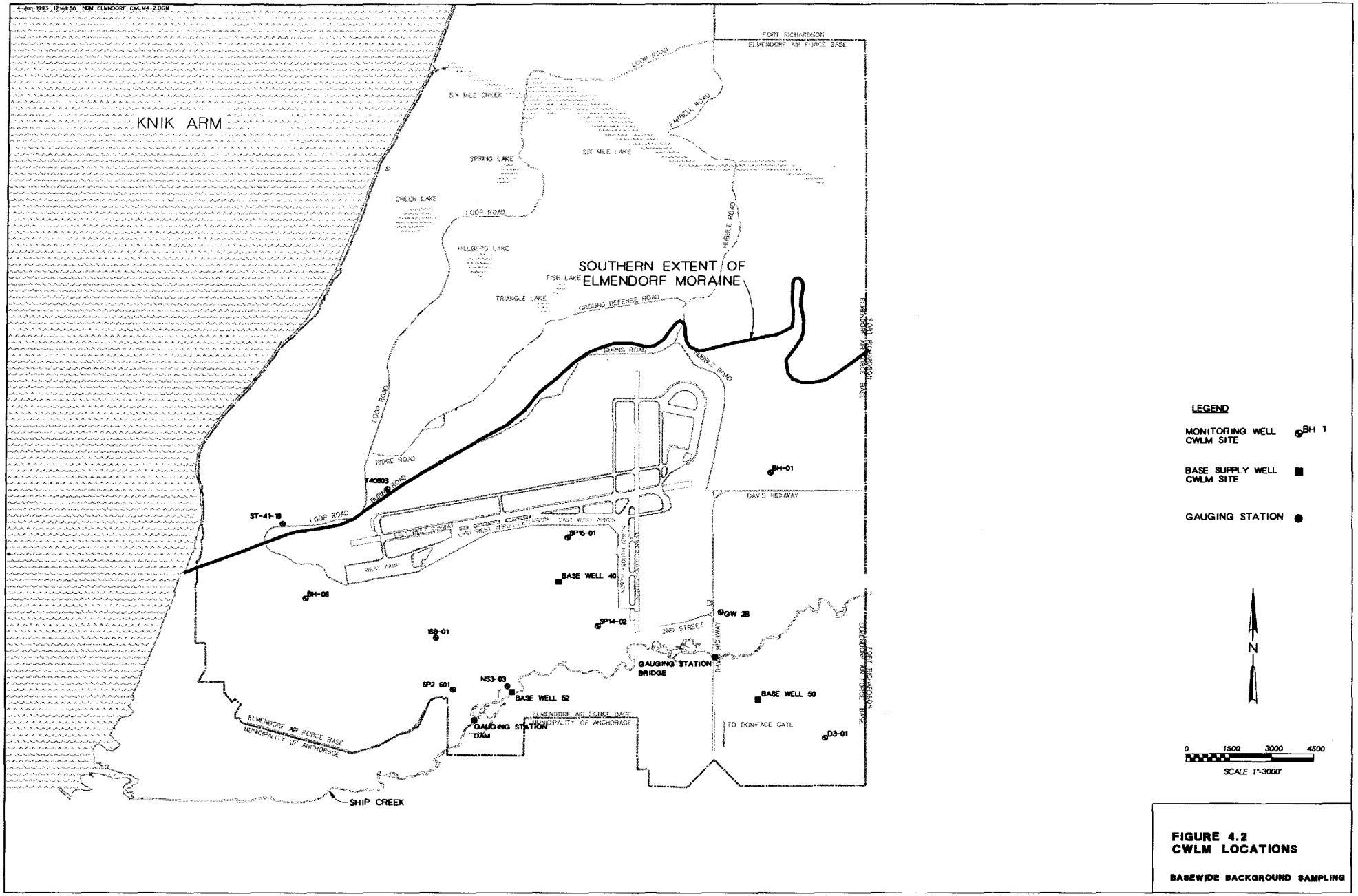


FIGURE 4.2
CWLM LOCATIONS

BASEWIDE BACKGROUND SAMPLING

- Accuracy to be at least 0.1 percent of full scale
- To include vented cable and connector compatible with specified data logger
- Exposed materials must not deteriorate from exposure to JP-4 jet fuels and petroleum lubricants.

A total of 17 data loggers and transducers were purchased. Installation took place the weeks of August 17 and September 21, 1992.

4.2.2 CWLM Installation and Operation Procedures

4.2.2.1 CWLM Installation Procedures

Installing the CWLM equipment included the following tasks:

- Inventory equipment and record serial numbers.
- Prepare the surface completion of the monitoring well.
- Modify the CWLM base supply wells to enable installation of the transducer and measure water levels.
- Install galvanized piping for the two CWLM gaging stations in Ship Creek.
- Prepare and install the equipment housing.
- Install the data loggers and transducers.
- Calibrate the CWLM equipment.
- Program the CWLM equipment for long-term monitoring.

Eleven CWLM were received August 17, 1992. Serial numbers were recorded by both EMO and CH2M HILL personnel. The remaining six data loggers and transducers were received on September 21, 1992.

Installation of the data loggers and transducers into the monitoring wells, the base supply wells, and the gaging stations in Ship Creek required a lockable, secure housing. Additional modifications to the surface completions of the CWLM monitoring and base water supply wells were required to allow the transducer cable to pass from the equipment housing into the well.

An Alaska Department of Fish and Game (ADF&G) representative supervised the installation of the gaging stations in Ship Creek. To protect the transducers from ice build-up and flooding, galvanized pipe was installed on both the bridge and dam locations.

The equipment housing built for the installation of the CWLM equipment consists of 15 inches of 8-inch-diameter, schedule-40 PVC piping with an end cap and a PVC bottom. A 6-inch length of I-beam was used to separate the housing from the well

surface completion. To secure the housing, a 3/8 x 12-inch bolt was placed through the end cap and into the well surface completion. The transducer cable was fed into the monitoring well through a 1-1/4-inch hole drilled into the side of the surface completion and the PVC housing. Equipment housing was assembled and secured to the wells with steel strapping. Housing was also used for the gaging station and base water supply well data loggers.

During the August 17, 1992, installation, five transducers did not meet the field calibration criteria. This dysfunctional equipment was removed and returned to the manufacturer for repair under warranty. The repaired equipment, along with the additional six data loggers and transducers, was installed the week of September 21, 1992.

Hydrographs for the CWLM locations are included in Appendix G.

4.2.2.2 CWLM Operating Procedures

The data loggers are menu-driven and compatible with IBM-compatible personal computers. The program necessary to run the data logger is called RST. Additional programs or directories, such as "format," "library," "data," "raw," and "text," are necessary to run the program. The program "library" is set up with files unique to each CWLM location. Each library file has well-specific information necessary to record the voltage output from the transducer and convert the reading to the depth to water below top of casing.

The program is run by initiating communications with the data logger and executing the file information specific to the CWLM location. The data loggers are currently programmed to collect groundwater levels at 3-hour intervals.

Data files will be downloaded from the data loggers on a monthly basis. Calibration of the CWLM equipment will be checked each time the data is downloaded to ensure the proper functioning of the equipment.

Monthly water level data will be entered into a database created specifically for Elmendorf AFB. Hydrographs will be created on a quarterly basis to evaluate the seasonal fluctuations and verify the equipment calibration. For detailed instructions on data logger operation, please refer to Appendix F, *RST Maintenance and Operation Manual*.

4.2.3 CWLM Results

Preliminary CWLM results are located in Appendix G. These data are presented as hydrographs of groundwater elevations collected from the CWLM locations described earlier. The data presented in Appendix G are those that have been collected to date.

Until a full year or more of CWLM data has been collected, it is premature to fully evaluate the seasonal and long-term fluctuations in the shallow and confined aquifers, the shallow/confined aquifer interaction, and shallow aquifer/surface water interaction. The USAF will continue to collect and evaluate the remainder of the data and interpret the hydrogeologic questions at Elmendorf AFB.

Various data gaps resulting from equipment malfunctions appear in the hydrographs presented in Appendix G. All 17 CWLM locations have been in operation since September 23, 1992, with the following exceptions:

- The transducer at BW-52 failed after installation; this well was refitted with the transducer from BW-40.
- The water level in BW-40 dropped below the length of the transducer cable on October 7, 1992, due to what appears to be pumping of the confined aquifer.
- The transducer in monitoring well D3-01 failed on October 6, 1992.
- Electric utility repairmen working in the area around monitoring well NS3-03 apparently sheared the cable leading to the transducer on November 25, 1992. The cable was repaired and reinstalled the week of December 7, 1992.

Manual water-level data have been collected each time the CWLM dataloggers are downloaded. Monthly water-level data will continue to be collected at wells without CWLM equipment until the equipment has been replaced.

Groundwater elevations in monitoring wells BH-1, GW-2B, and base supply well BW-50 all have a similar declining trend, as shown on Figure 4.3. It is possible that BW-50 is screened across both the shallow and confined aquifers, or the well is improperly constructed. Further investigation is necessary to ensure the well will not allow potentially contaminated groundwater from the unconfined aquifer to enter the lower confined aquifer.

Groundwater elevations in the shallow alluvial aquifer monitoring wells (SP14-02, SP15-01, SP2/6-01, GW-5A, BH-6, and IS8-01) have remained relatively constant, with slight fluctuations resulting from precipitation. Rainfall during the first and third weeks of September increased water levels by approximately 0.25 feet after each storm.

Groundwater elevations in monitoring well ST-41-18, located in the Elmendorf Moraine, have increased approximately 1 foot since the installation of the CWLM equipment as shown on Figure 4.4, but groundwater elevations within the moraine at T40503 have declined. This inconsistency in trends and the observed differences in groundwater elevations between these two CWLM locations may indicate that these two wells are screened across different water-bearing zones within the moraine.

Shallow aquifer/surface water interaction along Ship Creek is noticeable in NS3-03 and the dam gaging station (Figure 4.5). Changes in river stage appear to directly influence the groundwater levels in the adjacent well NS3-03.

Seasonal and long-term fluctuations in the confined aquifer are difficult to interpret from the data collected to date. The data suggest that pumping of the confined aquifer occurred near BW-40 around October 19, 1992.

Insufficient data exist to evaluate the shallow/confined aquifer interaction at this time. Pumping apparent in BW-40 did not appear to influence shallow aquifer water levels in monitoring wells SP15-01 or SP14-02.

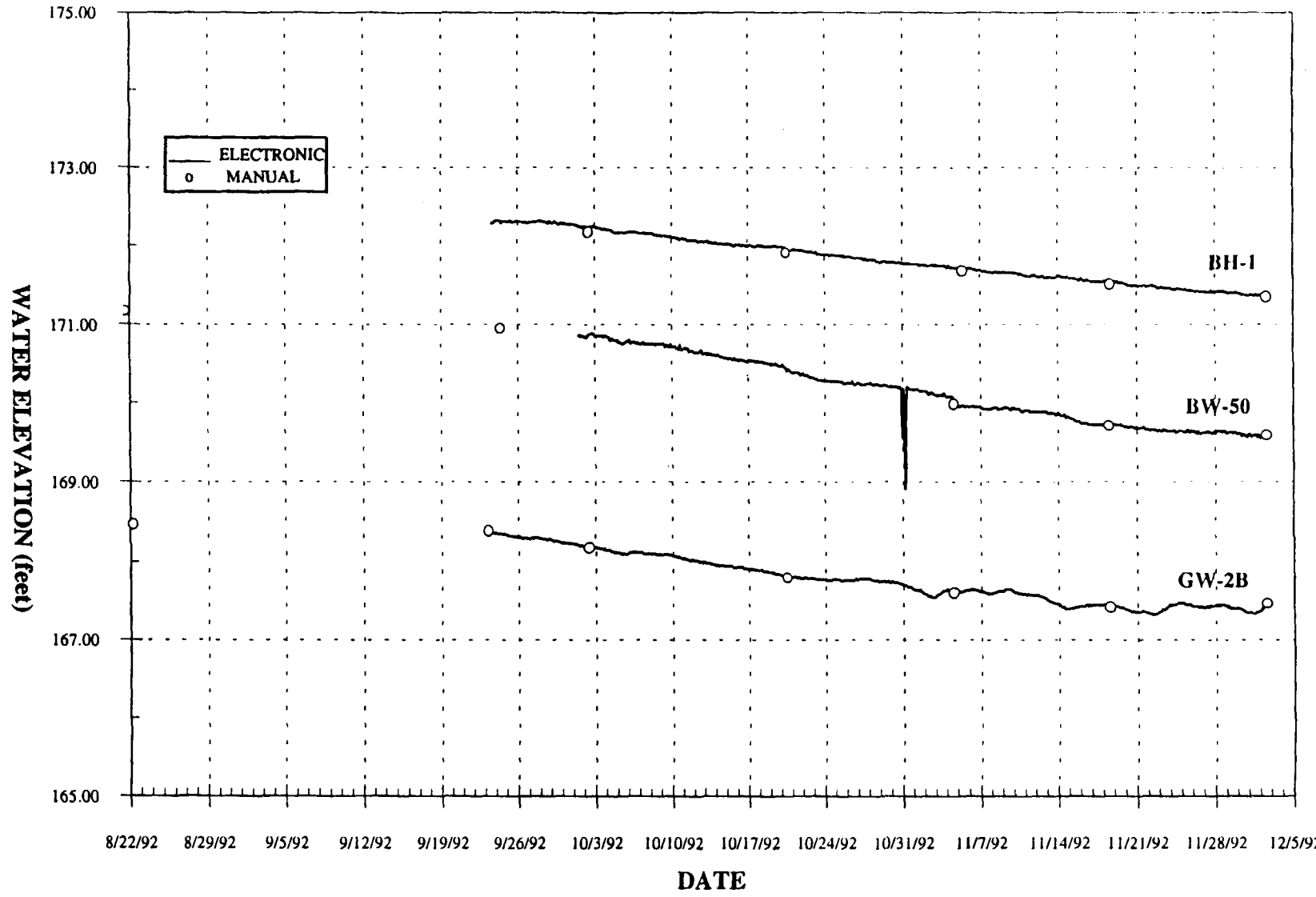


FIGURE 4.3
ELMENDORF AFB
WATER LEVEL COMPARISON
BASEWIDE BACKGROUND SAMPLING

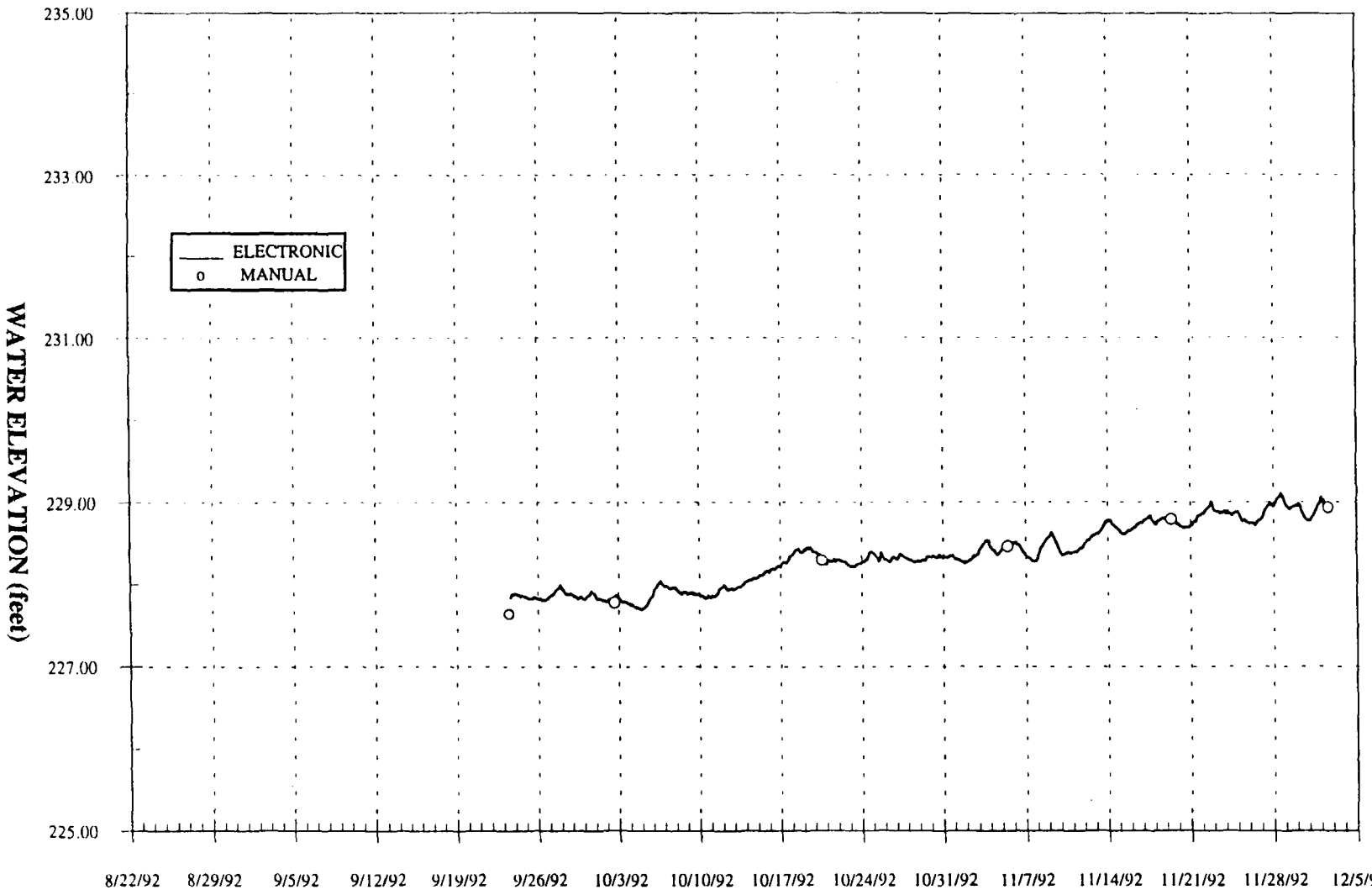


FIGURE 4.4
ELMENDORF AFB
SHALLOW AQUIFER
MONITORING WELL ST-41-18
BASEWIDE BACKGROUND SAMPLING

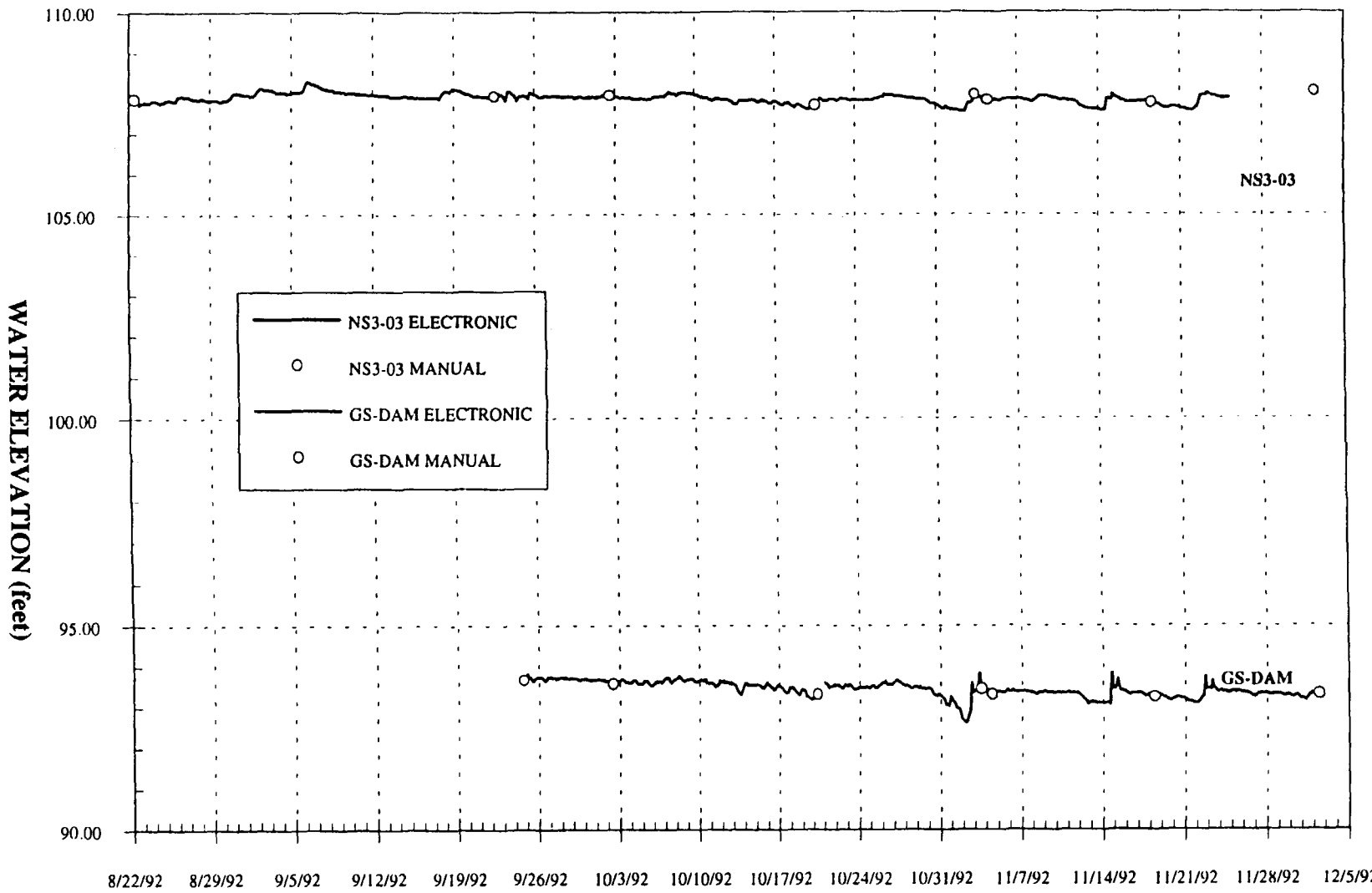


FIGURE 4.5
ELMENDORF AFB
SHALLOW AQUIFER/SURFACE WATER INTERACTION
BASEWIDE BACKGROUND SAMPLING

4.3 BASELINE MANUAL WATER LEVEL MEASUREMENTS

4.3.1 Methods

During the well field inspection, depth to water, LNAPL, and DNAPL measurements were collected from the monitoring wells from June 3 through June 10, 1992. Water level measurements were used to generate a water level contour map to help in evaluating the placement of CWLM equipment.

Water levels were collected using a groundwater interface probe calibrated against a steel tape. The measurements were conducted according to Section 2.2.3.2 in the Basewide Background Sampling Plan (BBSP). All measurements were collected from the top of the PVC casing unless otherwise noted, and were recorded on the Existing Well Evaluation Form (Appendix D). The probe was decontaminated after each use according to the procedures described in Section 2.6 of the BBSP.

LNAPL and DNAPL measurements were made using an Oil Recovery Service interface probe. The probe uses an optical sensor to detect hydrocarbon and a conductivity sensor to detect water. When the probe contacts water, an oscillating tone sounds; when the probe contacts hydrocarbon, a solid tone sounds. As each tone sounds, the depth is recorded and the thickness of any detected LNAPL or DNAPL is calculated. When the probe reaches the bottom of the well, the total depth of the well is recorded.

4.3.2 Results

4.3.2.1 Water Levels

Water levels were collected in June and September 1992 as described above. These measurements were converted into groundwater elevations using existing survey information. The June and September water level data from the Elmendorf AFB monitoring wells are displayed in Tables 4.5 and 4.6, respectively. Tables 4.7 and 4.8 display the LNAPL and DNAPL product thicknesses for June and September, respectively. Base water supply wells are not constructed to allow the collection of water level measurements. Modifications have been made to three CWLM base water supply wells, however, to allow manual water level collection.

Those LNAPL and DNAPL measurements collected in September had little correlation to the June LNAPL and DNAPL measurements. No DNAPL was measured in September. The DNAPL measurements detected in June were most likely material in the sump, not DNAPL.

4.3.2.2 Site Water Level Contour Maps

A water-level contour map (Figure 4.6) has been prepared from groundwater elevation data collected in September 1992 from 63 wells across the southern portion of the base south of the Elmendorf Moraine. Only those water level elevations that were taken from wells screened in the shallow, unconfined aquifer and having Alaska State Plane coordinates were used to prepare the contour maps. Shallow aquifer characteristics within the Elmendorf Moraine and areas northward are believed to be inconsistent with the southern areas of the base because perched water appears to be present within the moraine. The water level contour map has been developed into a flow net by constructing flowlines perpendicular to the equipotential lines (contours).

TABLE 4.5. Elmendorf AFB Groundwater Level Elevations
June 1992

OU Designation	Well No. ID	Date	Time	Depth to Water Level[a]	Top of Casing Elevation[b]	Water Level Elevation[b]	Recommended for Quarterly Monitoring?
OU 1	D13-02	06/03/92	10:20	40.96	210.96	170	Yes
OU 1	GW-1A	06/05/92	09:16	42.51	217.91	175.4	Yes
OU 1	GW-1C	06/03/92	10:52	41.45	211.45	170	No
OU 1	GW-2A	06/05/92	09:03	43.02	222.19	179.17	No
OU 1	GW-2B	06/03/92	11:04	32.96	201.23	168.27	Yes
OU 1	GW-2C	06/03/92	11:57	31.66	197.12	165.46	No
OU 1	NS2-01	06/03/92	10:37	39.47	211.34	171.87	No
OU 1	NS2-02	06/03/92	10:37	40.55	210.76	170.21	No
OU 1	W-1	06/03/92	10:06	39.21	211.54	172.33	No
OU 1	W-5	06/03/92	11:36	32.8	207.12	174.32	Yes
OU 1	W-6	06/03/92	11:19	32.68	201.04	168.36	No
OU 2	B1MW	06/09/92	12:16	25.5	180.16		No
OU 2	B2MW	06/09/92	12:23	35.81	179.06		No
OU 2	B3MW	06/09/92	12:32	26.32	N/A		No
OU 2	B4MW	06/09/92	12:06	26.71	N/A		No
OU 2	ST20-01	06/05/92	13:42	26.08	185.54	159.46	Yes
OU 2	ST20-02	06/05/92	10:57	24.42	183.23	158.81	No
OU 2	ST20-03	06/05/92	10:34	23.58	181.58	158	No
OU 2	ST20-04	06/05/92	13:30	26.02	184.86	158.84	No
OU 2	ST20-05	06/05/92	10:11	23.63	181.22	157.59	Yes
OU 2	ST41-01	06/10/92	07:48	34.98	279.7	244.72	Yes
OU 2	ST41-02	06/10/92	07:52	18.48	265.27	246.79	Yes
OU 2	ST41-06	06/10/92	07:44	33.51	268.62	235.11	Yes
OU 2	ST41-07	06/10/92	07:38	33.26	268.11	234.85	Yes
OU 2	ST41-08	06/10/92	12:38	14.31	249.45	235.14	Yes
OU 2	ST41-10	06/10/92	12:40	3.54	235.13	231.59	Yes
OU 2	ST41-15	06/09/92	17:20	9.84	252.18	242.34	Yes
OU 2	ST41-16	06/09/92	09:39	15.23	253.43	238.2	Yes
OU 2	ST41-18	06/09/92	09:32	13.35	242.65	229.3	Yes
OU 2	ST41-19	06/09/92	09:26	14.94	236.33	221.39	Yes
OU 2	ST41-20	06/10/92	12:50	3.67	218.78	215.11	Yes
OU 2	ST41-21	06/05/92	16:05	6.81	220.25	213.44	Yes

TABLE 4.5. (Cont'd)							
OU Designation	Well No. ID	Date	Time	Depth to Water Level[a]	Top of Casing Elevation[b]	Water Level Elevation[b]	Recommended for Quarterly Monitoring?
OU 2	ST41-22	06/05/92	17:36	11.38	202.94	191.56	Yes
OU 2	ST41-23	06/05/92	17:31	10.73	207.57	196.84	Yes
OU 2	ST41-24	06/05/92	17:20	4.42	212.16	207.74	Yes
OU 2	ST41-25	06/05/92	16:16	6.36	220.44	214.08	Yes
OU 2	ST41-26	06/05/92	17:11	13.2	215.05	201.85	Yes
OU 2	ST41-27	06/10/92	08:09	11.78	261.91	250.13	Yes
OU 2	ST41-28	06/10/92	07:59	22.01	254.21	232.2	Yes
OU 2	ST41-29	06/05/92	16:20	5.07	216.16	211.09	Yes
OU 2	ST41-30						Yes
OU 2	ST41-31	06/11/92	14:45	3.42	219.39	215.97	Yes
OU 2	ST41-32	06/11/92	14:30	20.13	241.59		Yes
OU 2	ST41-33A	06/11/92	14:00	3.35	N/A		Yes
OU 2	ST41-34	06/11/92	14:10	4.84	N/A		Yes
OU 2	ST41-35	06/10/92	08:16	12	N/A		Yes
OU 2	W-7	06/05/92	16:55	2.51	218.61	216.1	Yes
OU 2	W-8	06/05/92	16:40	4.03	216.37	212.34	Yes
OU 3	W-10	06/05/92	15:42	8.56	149.33	140.77	Yes
OU 3	W-11	06/05/92	15:04	8.59	150.51	141.92	No
OU 3	W-13	06/04/92	14:07	13.24	154.09	140.85	Yes
OU 4	IS1-01	06/08/92	15:21	26.29	188.23	161.94	No
OU 4	IS2-01	06/08/92	14:44	27.08	189.83	162.75	Yes
OU 4	IS3-01	06/09/92	11:36	39.57	202.73	163.16	Yes
OU 4	IS4-01	06/09/92	08:22	21.34	181.7	160.36	Yes
OU 4	IS5-01	06/09/92	11:20	49.21	216.09	166.88	Yes
OU 4	IS6-01	06/08/92	11:40	49.31	215.76	166.45	No
OU 4	IS8-01	06/03/92	16:00	32.79	154.53	121.74	Yes
OU 4	W-18	06/08/92	14:54	27.01	188.75	161.74	No
OU 4	W-19	06/08/92	15:08	27.34	188.2	160.86	No
OU 5	GW-4A	06/03/92	14:49	6.08	139.38	133.3	No
OU 5	GW-6A	06/04/92	11:11	30.91	140.27	109.36	No
OU 5	NS3-02	06/03/92	15:20	4.2	121.13	116.93	Yes
OU 5	NS3-03	06/03/92	15:31	3.14	111.92	108.78	Yes

TABLE 4.5. (Cont'd)							
OU Designation	Well No. ID	Date	Time	Depth to Water Level[a]	Top of Casing Elevation[b]	Water Level Elevation[b]	Recommended for Quarterly Monitoring?
OU 5	NS3-06						Yes
OU 5	SP1-01	06/04/92	16:06	8.08	100.69	92.61	Yes
OU 5	SP1-02	06/04/92	16:19	33.95	138.34	104.39	Yes
OU 5	SP2/6-01	06/03/92	16:10	49.67	155.42	105.75	Yes
OU 5	SP2/6-02	06/04/92	11:35	31.45	146.91	115.46	No
OU 5	SP2/6-03	06/04/92	11:30	37.13	144.39	107.26	Yes
OU 5	SP2/6-04	06/04/92		DRY	143.21		No
OU 5	SP2/6-05	06/03/92	16:20	32	138.54	106.54	Yes
OU 5	SP4-01	06/03/92	15:00	5.14	137.36	132.22	Yes
OU 5	SP4-02	06/03/92	15:09	5.38	131.27	125.89	No
OU 5	SP4-03	06/03/92	13:45	39.15	173.67	134.52	Yes
OU 5	W-14	06/03/92	14:36	2.87	137.63	134.76	Yes
OU 5	W-16	06/04/92	11:03	31.3	140.81	109.51	No
OU 6	D3-01	06/09/92	17:40	29.73	224.08	194.35	Yes
OU 6	K-301	06/09/92	09:09	88.85	187.64	98.79	Yes
OU 6	K-302	06/09/92	09:03	69.99	234.52	164.53	Yes
OU 6	K-303	06/09/92	08:56	95.68	145.68	50	Yes
OU 7	FP-51	06/08/92	12:20	42.06	205.54	163.48	No
OU 7	FP-52	06/08/92	12:28	42.555	206.01	163.455	Yes
OU 7	FP-53	06/08/92	12:37	42.82	205.41	162.59	No
OU 7	FP-54	06/08/92	12:46	43	206.4	163.4	Yes
OU 7	FP-55	06/08/92	12:55	41.88	205.28	163.4	No
OU 7	FP-56	06/08/92	12:10	41.295	204.71	163.415	Yes
OU 7	GW-5A	06/08/92	11:53	32.76	206.21	173.45	Yes
OU 7	W-15	06/08/92	12:00	41.28	204.62	163.34	No
MISC	BH1	06/03/92	13:30	59.5	230.34	170.84	Yes
MISC	BH3	06/09/92	13:58	13.56	318.27	304.71	Yes
MISC	BH4	06/09/92	13:04	3.88	303.19	299.31	Yes
MISC	BH5	06/09/92	17:10	6.02	245.08	239.06	Yes
MISC	BH6	06/04/92	15:49	10.47	145.38	134.91	Yes
POL	GW-3A	06/04/92	14:36	20.94	174.65	153.71	Yes
POL	GW-7A	06/04/92	12:11	30.54	181.19	150.65	No

TABLE 4.5. (Cont'd)

OU Designation	Well No. ID	Date	Time	Depth to Water Level[a]	Top of Casing Elevation[b]	Water Level Elevation[b]	Recommended for Quarterly Monitoring?
POL	PT-01	06/04/92	14:41	22.9	176.6	153.7	No
POL	PT-03	06/04/92	14:47	22.84	176.5	153.66	No
POL	PT-04	06/04/92	14:55	22.73	176.17	153.44	No
POL	SP14-01	06/04/92	12:06	30.83	181.94	151.11	Yes
POL	SP14-02	06/04/92	11:55	35.16	181.26	146.1	Yes
POL	SP15-01	06/04/92	15:07	27	185.03	158.03	Yes
POL	SP15-02	06/09/92	16:29	25.52	184.58	159.06	No
POL	SP7/10-01	06/09/92	16:08	12.38	169.28	156.9	Yes
POL	SP7/10-02	06/09/92	16:00	13.84	170.95	157.11	No
POL	SP7/10-03	06/09/92	15:07	22.48	181.46	158.98	Yes
POL	SP7/10-04	06/09/92	15:23	17.04	177.04	160	No
POL	W-3	06/09/92	15:15	18.85	178.59	159.74	No
POL	W-4	06/09/92	15:36	12.35	170.48	158.13	Yes
POL	W-9	06/04/92	14:30	20.98	175.65	154.67	No
UST	T40001	06/09/92	09:19	27.51	243.63	216.12	Yes
UST	T40107	06/07/92	14:25	16.5	230.48	213.98	Yes
UST	T40304	06/07/92	13:35	31.76	225.1	193.34	Yes
UST	T40503	06/07/92	13:45	28.53	224.56	196.03	Yes
UST	T40905	06/07/92	14:39	27.79	288.03	260.24	Yes
UST	T41206	06/07/92	14:45	14.75	290.09	275.34	Yes
UST	T41709	06/07/92	14:09	16.92	276.94	260.02	Yes
UST	T42202	06/07/92	13:59	63.98	290.5	226.52	Yes
UST	T42810	06/07/92	13:20	28.98	305.15	276.17	Yes

Notes:
[a]In feet, from top of casing
[b]Feet above mean sea level

Monitoring wells not found on this list were either
- Abandoned by Jacobs Engineering
- Not found during the well evaluation, or
- Had an obstruction in the well during the well evaluation

TABLE 4.6. Elmendorf AFB Groundwater Level Elevations
September 1992

OU Designation	Well No. ID	Date	Time	Depth to Water Level[a]	Top of Casing Elevation[b]	Water Level Elevation[b]	Recommended for Quarterly Monitoring?
OU 1	D13-02	09/21/92	13:57	40.06	210.96	170.90	Yes
OU 1	GW-1A	09/21/92	14:10	41.31	217.91	176.60	Yes
OU 1	GW-1C	09/21/92	13:54	40.63	211.45	170.82	No
OU 1	GW-2A	Inaccessible				0.00	No
OU 1	GW-2B	09/21/92	13:37	32.79	201.23	168.44	No
OU 1	GW-2C	09/21/92	14:35	31.88	197.12	165.24	No
OU 1	NS2-01	09/21/92	14:03	38.31	211.34	173.03	No
OU 1	NS2-02	09/21/92	14:00	39.59	210.76	171.17	No
OU 1	W-1	09/21/92	14:05	38.06	211.54	173.48	No
OU 1	W-5	09/21/92	13:45	32.44	207.12	174.68	Yes
OU 1	W-6	09/21/92	13:35	32.73	201.04	168.31	No
OU 2	B1MW	09/22/92	11:05	25.12	180.16	155.04	No
OU 2	B2MW	09/22/92	11:10	25.39	179.06	153.67	No
OU 2	B3MW	09/22/92	11:12	25.93	N/A		No
OU 2	B4MW	Casing & Surface Completion Damaged				0.00	No
OU 2	ST20-01	09/22/92	12:00	25.65	185.54	159.89	Yes
OU 2	ST20-02	09/22/92	11:55	24.07	183.23	159.16	No
OU 2	ST20-03	09/22/92	11:45	23.21	181.58	158.37	No
OU 2	ST20-04	09/22/92	11:48	25.62	184.86	159.24	No
OU 2	ST20-05	09/22/92	11:43	23.29	181.22	157.93	Yes
OU 2	ST41-01	09/22/92	15:06	36.97	279.7	242.73	Yes
OU 2	ST41-02	09/22/92	15:05	21.89	265.27	243.38	Yes
OU 2	ST41-06	09/22/92	15:09	33.80	268.62	234.82	Yes
OU 2	ST41-07	09/22/92	15:10	34.15	268.11	233.96	Yes
OU 2	ST41-08	09/22/92	14:05	16.45	249.45	233.00	Yes
OU 2	ST41-10	09/22/92	14:07	3.20	235.13	231.93	Yes
OU 2	ST41-15	09/22/92	15:13	10.16	252.18	242.02	Yes
OU 2	ST41-16	09/22/92	15:15	16.90	253.43	236.53	Yes
OU 2	ST41-18	09/22/92	15:18	14.88	242.65	227.77	Yes
OU 2	ST41-19	09/22/92	15:20	15.61	236.33	220.72	Yes
OU 2	ST41-20	09/22/92	14:13	3.60	218.78	215.18	Yes
OU 2	ST41-21	09/22/92	15:50	5.00	220.25	215.25	Yes

TABLE 4.6. (Cont'd)							
OU Designation	Well No. ID	Date	Time	Depth to Water Level[a]	Top of Casing Elevation[b]	Water Level Elevation[b]	Recommended for Quarterly Monitoring?
OU 2	ST41-22	09/22/92	16:10	11.84	202.94	191.10	Yes
OU 2	ST41-23	09/22/92	16:07	11.84	207.57	195.73	Yes
OU 2	ST41-24	09/22/92	16:05	4.45	212.16	207.71	Yes
OU 2	ST41-25	09/22/92	14:52	5.30	220.44	215.14	Yes
OU 2	ST41-26	09/22/92	15:00	14.93	215.05	200.12	Yes
OU 2	ST41-27	09/22/92	14:35	18.62	261.91	243.29	Yes
OU 2	ST41-28	09/22/92	14:37	21.86	254.21	232.35	Yes
OU 2	ST41-29	09/22/92	14:59	5.80	216.16	210.36	Yes
OU 2	ST41-30	09/22/92	14:10	4.21	225.21	221.00	Yes
OU 2	ST41-31	09/22/92	14:48	2.54	219.39	216.85	Yes
OU 2	ST41-32	09/22/92	10:05	22.42	241.59	219.17	Yes
OU 2	ST41-33	09/22/92	14:20	3.44	N/A		Yes
OU 2	ST41-34	09/22/92	14:50	4.15	N/A		Yes
OU 2	ST41-35	09/22/92	14:55	14.90	N/A		Yes
OU 2	W-7	09/22/92	14:55	2.34	218.61	216.27	Yes
OU 2	W-8	09/22/92	14:58	4.07	216.37	212.30	Yes
OU 3	W-10	09/21/92	15:50	10.21	149.33	139.12	Yes
OU 3	W-11	09/21/92	15:55	10.04	150.51	140.47	Yes
OU 3	W-13	09/21/92	16:00	13.75	154.09	140.34	Yes
OU 4	IS1-01	09/22/92	10:25	26.45	188.23	161.78	Yes
OU 4	IS2-01	09/22/92	12:50	27.36	189.83	162.47	Yes
OU 4	IS3-01	09/22/92	10:35	39.52	202.73	163.21	Yes
OU 4	IS4-01	Inaccessible - Vehicle Parked over Well					Yes
OU 4	IS5-01	09/22/92	10:50	48.23	216.09	167.86	Yes
OU 4	IS6-01	09/22/92	10:40	48.41	215.76	167.35	Yes
OU 4	IS8-01	09/21/92	15:42	23.11	154.53	131.42	No
OU 4	W-18	09/22/92	10:15	27.15	188.75	161.60	No
OU 4	W-19	09/22/92	10:20	27.46	188.2	160.74	No
OU 5	GW-4A	09/21/92	14:45	3.98	139.38	135.40	No
OU 5	GW-6A	09/21/92	15:33	31.04	140.27	109.23	Yes
OU 5	NS3-02	09/21/92	14:55	5.22	121.13	115.91	Yes
OU 5	NS3-03	09/21/92	14:58	3.90	111.92	108.02	No

TABLE 4.6. (Cont'd)

OU Designation	Well No. ID	Date	Time	Depth to Water Level[a]	Top of Casing Elevation[b]	Water Level Elevation[b]	Recommended for Quarterly Monitoring?
OU 5	NS3-06	09/21/92	15:02	27.87	149.03	121.16	Yes
OU 5	SP1-01	09/21/92	15:15	8.46	100.69	92.23	Yes
OU 5	SP1-02	09/21/92	15:20	35.20	138.34	103.14	Yes
OU 5	SP2/6-01	09/21/92	15:22	39.98	155.42	115.44	Yes
OU 5	SP2/6-02	09/21/92	15:38	37.74	146.91	109.17	No
OU 5	SP2/6-03	09/21/92	15:36	37.09	144.39	107.30	No
OU 5	SP2/6-04	09/21/92	15:34	37.80	143.21	105.41	No
OU 5	SP2/6-05	09/21/92	15:25	32.01	138.54	106.53	Yes
OU 5	SP4-01	09/21/92	14:48	5.23	137.36	132.13	Yes
OU 5	SP4-02	09/21/92	14:52	5.72	131.27	125.55	No
OU 5	SP4-03	09/21/92	15:05	39.23	173.67	134.44	Yes
OU 5	W-14	09/21/92	14:40	3.16	137.63	134.47	No
OU 5	W-16	09/21/92	15:27	31.44	140.81	109.37	No
OU 6	D3-01	09/21/92	13:20	24.39	224.08	199.69	No
OU 6	K-301	09/22/92	15:45	90.18	187.64	97.46	Yes
OU 6	K-302	09/22/92	15:41	69.72	234.52	164.80	Yes
OU 6	K-303	09/22/92	15:39	95.06	145.68	50.62	No
OU 7	FP-51	09/22/92	12:32	42.09	205.54	163.45	No
OU 7	FP-52	09/22/92	12:35	42.54	206.01	163.47	No
OU 7	FP-53	09/22/92	12:40	42.81	205.41	162.60	No
OU 7	FP-54	09/22/92	12:41	43.03	206.4	163.37	Yes
OU 7	FP-55	09/22/92	12:43	41.84	205.28	163.44	No
OU 7	FP-56	09/22/92	12:34	41.31	204.71	163.40	No
OU 7	GW-5A	09/22/92	12:25	42.77	206.21	163.44	Yes
OU 7	W-15	09/22/92	12:30	41.27	204.62	163.35	No
MISC	BH1	09/21/92	14:30	58.05	230.34	172.29	No
MISC	BH3	09/22/92	13:00	16.58	318.27	301.69	Yes
MISC	BH4	09/22/92	13:08	5.04	303.19	298.15	Yes
MISC	BH5	09/22/92	13:10	5.96	245.08	239.12	Yes
MISC	BH6	09/21/92	15:45	10.65	145.38	134.73	Yes
POL	GW-3A	09/21/92	16:10	21.32	174.65	153.33	Yes
POL	GW-7A	09/22/92	11:41	30.42	181.19	150.77	No

TABLE 4.6. (Cont'd)							
OU Designation	Well No. ID	Date	Time	Depth to Water Level[a]	Top of Casing Elevation[b]	Water Level Elevation[b]	Recommended for Quarterly Monitoring?
POL	PT-01	09/21/92	16:09	23.28	176.6	153.32	No
POL	PT-03	09/21/92	16:08	23.22	176.5	153.28	No
POL	PT-04	09/21/92	16:00	23.12	176.17	153.05	No
POL	SP14-01	09/22/92	11:40	30.71	181.94	151.23	Yes
POL	SP14-02	09/22/92	11:34	35.28	181.26	145.98	Yes
POL	SP15-01	09/22/92	12:14	26.82	185.03	158.21	No
POL	SP15-02	09/22/92	12:10	25.25	184.58	159.33	Yes
POL	SP7/10-01	09/22/92	9:50	12.95	169.28	156.33	Yes
POL	SP7/10-02	09/22/92	9:52	14.34	170.95	156.61	No
POL	SP7/10-03	09/22/92	9:54	23.25	181.46	158.21	Yes
POL	SP7/10-04	09/22/92	9:59	17.72	177.04	159.32	No
POL	W-3	09/22/92	9:57	19.78	178.59	158.81	No
POL	W-4	09/22/92	9:48	12.36	170.48	158.12	No
POL	W-9	09/21/92	16:12	21.30	175.65	154.35	No
UST	T40001	09/22/92	15:33	27.67	243.63	215.96	Yes
UST	T40107	09/22/92	13:45	17.55	230.48	212.93	Yes
UST	T40304	09/22/92	13:37	32.86	225.1	192.24	Yes
UST	T40503	09/22/92	13:40	28.92	224.56	195.64	Yes
UST	T40905	09/22/92	13:55	28.81	288.03	259.22	Yes
UST	T41206	09/22/92	14:00	17.99	290.09	272.10	Yes
UST	T41709	09/22/92	14:04	19.19	276.94	257.75	Yes
UST	T42202	09/22/92	13:35	64.33	290.5	226.17	Yes
UST	T42810	09/22/92	13:15	36.29	305.15	268.86	Yes

Notes:
[a]In feet, from top of casing
[b]Feet above mean sea level

Monitoring wells not found on this list were either
- Abandoned by Jacobs Engineering
- Not found during the well evaluation, or
- Had an obstruction in the well during the well evaluation

TABLE 4.7. LNAPL and DNAPL Measurements
Elmendorf AFB, June 1992

OU Designation	Well No. ID	Depth to Water (ft)	Depth to LNAPL (ft)	Depth to DNAPL (ft)	Total Well Depth (ft)	LNAPL Thickness (ft)	DNAPL Thickness (ft)
OU2	W-7	2.51	2.50	--	--	0.01	--
OU2	ST-41-19	14.94	14.93	--	--	0.01	--
OU2	ST-41-28	22.02	22.01	--	--	0.01	--
OU2	ST-41-34	--	--	24.04	24.35	--	0.31[a]
OU2	B3MW	26.32	26.31	--	--	0.01	--
OU4	IS2-01	27.08	27.07	--	--	0.01	--
OU4	W-18	27.01	27.00	48.32	48.40	0.01	0.08[a]
OU7	FP-51	42.06	42.05	--	--	0.01	--
OU7	FP-54	43.00	42.99	--	--	0.01	--
OU7	FP-55	41.88	41.87	--	--	0.01	--
Misc.	SP7/10-01	--	--	32.82	34.6	--	1.78[a]
Misc.	SP7/10-04	17.04	17.03	--	--	0.01	--
Misc.	W-3	18.85	18.14	--	--	0.71	

[a]The material measured as DNAPL is likely to be silt in the bottom of the monitoring well that would also be detected by the interface probe.
Note: For date and time of LNAPL and DNAPL measurements, refer to Table 4.5

TABLE 4.8. LNAPL and DNAPL Measurements
Elmendorf AFB, September 1992

OU Designation	Well No. ID	Depth to Water (ft)	Depth to LNAPL (ft)	Depth to DNAPL (ft)	Total Well Depth (ft)	LNAPL Thickness (ft)	DNAPL Thickness (ft)
Miscellaneous	W-3	19.78	18.97	--	--	0.81	--
OU 2	ST-41-28	21.86	21.85	--	--	0.01	--
OU 2	ST-41-16	16.90	16.71	--	--	0.19	--
OU 5	GW-4A	3.98	3.97	--	--	0.01	--

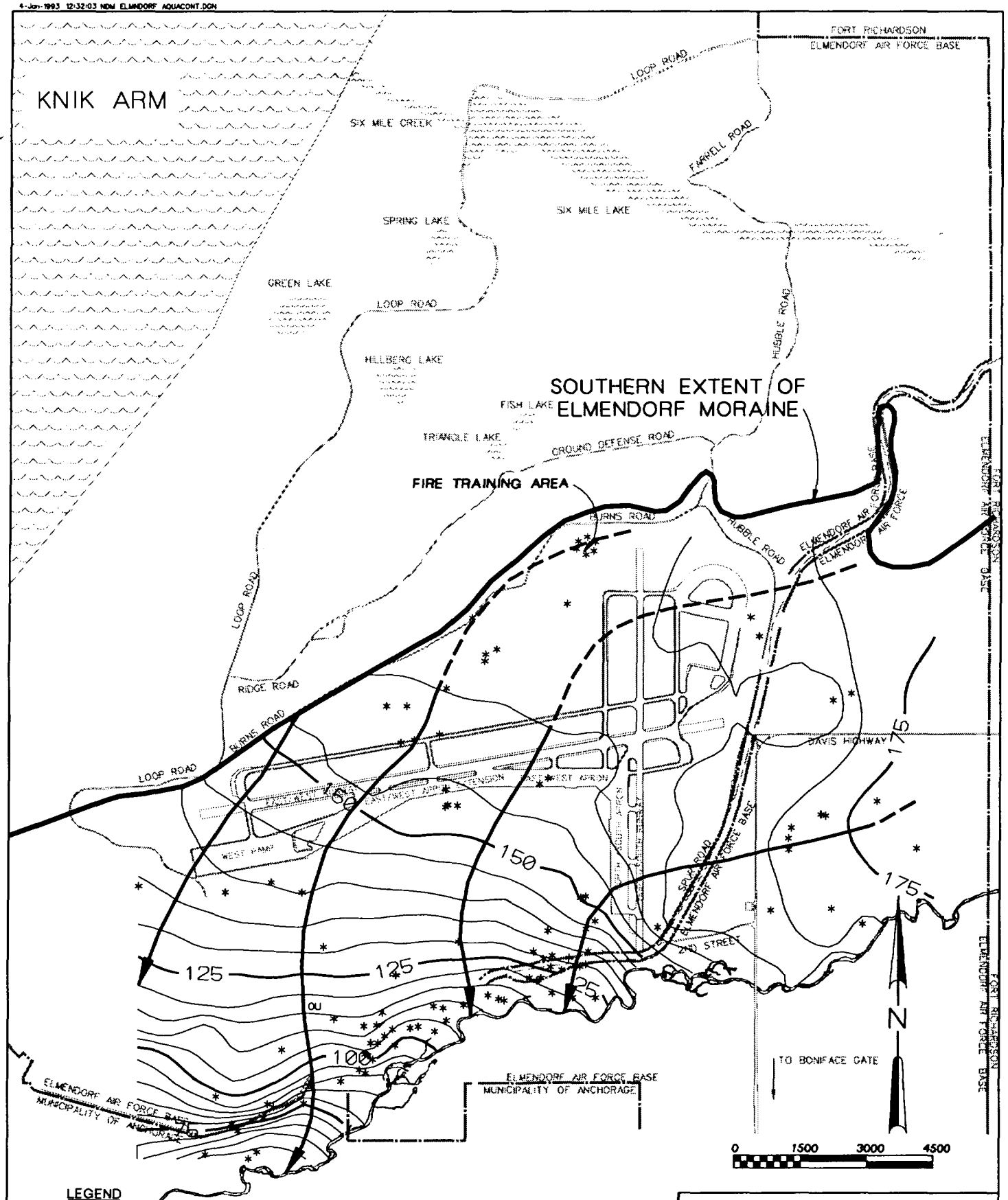


FIGURE 4.6
SHALLOW AQUIFER WATER LEVEL CONTOUR MAP WITH FLOW LINES SEPTEMBER, 1992

The flowlines represent the estimated direction of groundwater flow within the shallow aquifer. The well locations used to collect water level data are not evenly distributed over the study area. This uneven distribution affects the accuracy of the water level surface map.

The water level contours and flowlines (Figure 4.6) over the southern portion of the base indicate that groundwater movement in the shallow unconfined aquifer is generally toward Ship Creek, along the southern boundary of the base. However, groundwater flow direction along the eastern extremity of the base appears to be to the west, then southerly toward Ship Creek. Flow directions on the western side of the base are interpreted to be to the south toward Ship Creek.

4.3.3 Potential Upgradient Wells

An upgradient monitoring well is one in which groundwater quality is not affected by site activities. Most monitoring wells on Elmendorf AFB were installed in or downgradient of operable units. The shallow unconfined aquifer contour map, Figure 4.6, indicates that BH-1 may be the only monitoring well south of the Elmendorf Moraine that meets these criteria.

4.4 CONCLUSIONS, RECOMMENDATIONS, AND FUTURE ACTIVITIES

The monitoring and base water supply well evaluation, inspection, and recommendation for CWLM on Elmendorf AFB was completed in August 1992. Installation of the CWLM equipment took place in August and September 1992.

The inspection of the base water supply wells in the OU areas identified the need to modify the surface completions so that depth to water measurements can be collected in the future. The monitoring well inspection revealed the need for the AFB to abandon or repair several wells. A total of 131 monitoring wells were evaluated; 13 were not found and may need to be abandoned if the surface completions are not located by land surveying. The potential for contaminant migration through these wells should decrease if they are abandoned in accordance with state regulations. Table 4.9 lists the status of the monitoring wells and whether repair is needed.

Future recommended groundwater activities on Elmendorf AFB include the following:

- A quarterly collection of manual water level data collection from the recommended monitoring wells in Table 4.5.
- An attempt should be made to modify base water supply wells across the base to allow quarterly manual water level data collection.
- Pumping tests should be run in the confined aquifer to assist in evaluating the spatial variability of the potential interconnection between the shallow, unconfined and the confined aquifers.
- Repair or abandon those base water supply wells lacking adequate seals between the shallow and confined aquifers (as determined from well logs, pumping tests, or CWLM data).
- Repair or abandon monitoring wells as outlined in Table 4.9.

- Maintain and operate the CWLM network to assist in evaluating the groundwater movement across the site.

- After data have been collected for 1 year, consideration should be given to moving the CWLM network to evaluate groundwater from the Elmendorf Moraine or specific OUs.

- It may be appropriate to move one set of CWLM equipment from one of the existing base well locations to the observation well that was installed for the pumping test conducted in October. This well is screened in the confined aquifer, and the use of this well for data collection would allow water levels to be collected without potential pumping interferences.

- Some of the most recently installed monitoring wells should be evaluated against the CWLM site selection criteria to assess if any monitoring wells installed during the 1992 field season should be used for CWLM use.

- CWLM data from the Ship Creek dam gaging station should be provided to ADF&G.

Appendix H contains a summary of the monitoring wells located at Elmendorf AFB. The appendix includes information pertaining to the location and construction of monitoring wells installed before December 1992. Information about wells installed during the 1992 field season was obtained after the well evaluation and well inspection subtask had been completed, and has been included in this report to provide a comprehensive summary of the monitoring wells installed to date at Elmendorf AFB.

TABLE 4.9. Monitoring Well Inspection Results				
OU	**Well ID**	**Condition**	**Action Required**	**1992 Field Season Corrective Action**
OU1	GW-1C	Surface seal cracked	Repair surface seal	
OU1	GW-2A	Surface seal cracked	Repair surface seal	
OU1	GW-2C	Surface seal cracked	Repair surface seal	Repaired
OU1	D13-01	Well not found	Locate well, determine condition	Well destroyed
OU1	NS2-01	Surface seal cracked	Repair surface seal	
OU1	NS2-02	Surface seal cracked	Repair surface seal	
OU2	W-7	Surface seal cracked	Repair surface seal	Repaired
OU2	W-8	Protective casing loose around PVC, frost heave	Repair surface seal	Repaired
OU2	ST-41-01	Surface seal affected by frost heave	Repair surface seal	Repaired
OU2	ST-41-02	Surface seal cracked	Repair surface seal	Repaired
OU2	ST-41-07	Surface seal raised by frost heave	Repair surface seal	Repaired
OU2	ST-41-08	Surface seal raised by frost heave	Repair surface seal	Repaired
OU2	ST-41-20	Surface seal raised by frost heave	Repair surface seal	Repaired
OU2	ST-41-22	Surface seal raised by frost heave	Repair surface seal	Repaired
OU2	ST-41-23	Surface seal raised by frost heave	Repair surface seal	Repaired
OU2	ST-41-29	Surface seal deteriorated	Repair surface seal	Repaired
OU2	ST-41-31	Surface seal raised by frost heave	Repair surface seal	Repaired
OU2	ST-41-33A	No surface seal	Install surface seal	
OU2	ST-41-34	Surface seal cracked	Repair surface seal	Repaired
OU2	ST-41-35	Surface seal broken	Repair surface seal	Repaired
OU2	ST-20-01	Flush mount seal not water-tight	Replace with expandable cap	
OU2	ST-20-03	Flush mount seal not water-tight	Replace with expandable cap	

TABLE 4.9. Monitoring Well Inspection Results				
OU2	ST-20-04	Flush mount seal not water-tight	Replace with expandable cap	
OU2	ST-20-05	Flush mount seal not water-tight	Replace with expandable cap	
OU2	B1MW	Flush mount monument destroyed	Repair flush mount monument	
OU2	B2MW	Flush mount monument needs repair	Repair flush mount monument	
OU2	B3MW	Flush mount monument needs repair	Repair flush mount monument	
OU2	B4MW	Monument and casing destroyed	Abandon	
OU3	W-11	Well located in runway snowmelt pond with broken PVC casing	Abandon	
OU3	W-12	Well not found	Locate well and abandon	
OU4	IS1-01	Flush mount monument needs repair	Repair flush mount monument	
OU4	IS2-01	Needs one bolt and expanding cap		
OU4	IS3-01	Flush mount monument needs repair	Repair flush mount monument	
OU4	IS4-01	Flush mount monument needs repair	Repair flush mount monument	
OU4	IS5-01	Needs one bolt		
OU4	IS6-01	Flush mount monument needs rubber seal		
OU4	IS7-01	Well covered by asphalt as reported by D&M	Locate well and abandon	
OU5	SP4-01	Surface seal cracked	Repair surface seal	Repaired
OU5	SP4-02	Surface seal cracked	Repair surface seal	Repaired
OU5	SP4-03	Frost heave, loose surface completion	Repair surface seal	
OU5	GW-4A	Surface completion in poor shape, well not secure	Repair surface completion, secure well	Repaired
OU5	W-14	No bentonite seal, well not secure	Secure well	Repaired

TABLE 4.9. Monitoring Well Inspection Results				
OU5	W-16	Surface seal cracked	Repair surface seal	Repaired
OU6	D3-02	Obstruction in well	Remove obstruction or abandon	
OU6	D3-03	Well not found	Locate well and *determine condition*	
OU6	K-301	No surface seal	Install surface seal	
OU6	K-302	No surface seal	Install surface seal	
OU6	K-303	No surface seal	Install surface seal	
OU6	K-304	Well located in swamp	Locate well and abandon	
OU6	K-305	Well located in swamp	Locate well and abandon	
OU6	K-306	Well located in swamp	Locate well and abandon	
OU6	K-308	Well located in swamp	Locate well and abandon	
OU6	K-309	Well located in swamp	Locate well and abandon	
OU6	K-310	Well located in swamp	Locate well and abandon	
OU7	FP-51	No surface seal	Install surface seal	
OU7	FP-52	No surface seal	Install surface seal	
OU7	FP-53	No surface seal, lid needs repair	Install surface seal, repair lid	
OU7	FP-55	No surface seal	Install surface seal	
POL	SP7/10-03	PVC has coupler 2' down	Repair PVC	
POL	W-3	Surface seal cracked	Repair surface seal	
POL	W-4	No surface seal	Install surface seal	
POL	PT-01	Surface seal cracked	Repair surface seal	
POL	GW-3A	Surface seal cracked	Repair surface seal	
POL	W-9	No surface seal	Install surface seal	
POL	GW-7A	Surface seal cracked	Repair surface seal	
POL	W-17	Casing damaged and obstructed	Remove obstruction or abandon	
POL	SP15-02	Needs expandable cap	Replace expandable cap	
UST	T40001	No surface seal	Install surface seal	
UST	T40905	No surface seal	Install surface seal	
UST	T41206	No surface seal	Install surface seal	

TABLE 4.9. Monitoring Well Inspection Results				
UST	T40107	No surface seal	Install surface seal	
UST	T40304	No surface seal	Install surface seal	
UST	T41709	No surface seal	Install surface seal	
UST	T42202	No surface seal	Install surface seal	
UST	T40503	No surface seal	Install surface seal	
UST	T42810	No surface seal	Install surface seal	
UST	BH-2	Well not found	Locate well and abandon	
UST	BH-5	Surface seal affected by frost heave	Repair surface seal	

5.0 BACKGROUND SOIL SAMPLING

5.0 BACKGROUND SOIL SAMPLING

5.1 SELECTION OF NUMBER OF SAMPLES AND SAMPLING LOCATIONS

5.1.1 Number of Samples and General Locations

The purpose of the soil sampling task is to obtain information about the background concentrations of metals in the soil on Elmendorf AFB. Due to variability in soil conditions across the site, and in sampling and analysis procedures, metals concentrations are described by a range of values, or a distribution. To compare source concentrations with background concentrations, statistical characteristics of the distribution must be calculated.

The sample design considered the potential use of metals concentrations data for risk assessments. In performing a risk assessment, the route of exposure is considered. The depth of the soil which may act as a source of contamination is a function of the exposure route. For example, surface soils could be a source of contamination by the way of ingestion or direct dermal contact. Exposure to contaminants in the shallow subsurface could result by ingesting plants that have taken up contaminants from the root zone, or by inhaling or directly contacting the soil during shallow excavations. Contaminants in deeper soils could leach into the groundwater and be ingested. Because it is likely that metals concentrations are a function of soil depth, samples were collected from each of the above three depth ranges to define background metals concentrations representative of each potential exposure route.

Landform and soil type were also considered in the selection of sampling locations. Samples were collected from the two major types of land formations on the base—alluvial and morainal—to determine whether distributions from each would differ. Locations were also selected to be representative of the soil conditions found in the Operable Units.

The ability to estimate the statistical characteristics of a distribution improves with the number of samples taken. In selecting the number of samples to be collected, the need for statistical information concerning background concentrations and the cost of sampling were considered. Order statistics were used to estimate the degree of uncertainty associated with detecting differences in distributions versus sample size. The number of sampling locations chosen was seven from each land formation, seven from the alluvial soils, and seven from the morainal area. Results from each of the formations were compared, and the samples were pooled if the two distributions were not statistically different, yielding a total of 14 samples. A detailed explanation of the statistics involved in the selection of seven samples is available in the Basewide Background Sampling Plan.

At each of the 14 sample locations, one sample was taken from the surface soil, one from the root zone, and one or two samples were collected between the root zone and the water table. Additional samples were collected for quality control; these are described in Section 5.2.3.2.

5.1.2 Selection of Sampling Locations

5.1.2.1 Site Selection Criteria

The background sampling areas were selected from within the undisturbed acreage on the base. The criteria for defining the background areas were

- The selected areas are at least 1000 feet from currently developed parts of the base.
- Available aerial photographs do not show past development of the selected areas.
- Stressed vegetation is not present in the areas.
- The selected areas are upgradient of known utilidors and fuel pipelines.
- The selected areas are outside the OUs under investigation.

5.1.2.2 Description of Sampling Locations

Sampling locations were selected on the basis of being representative of soil conditions at Elmendorf AFB and the OUs at the base. The majority of the OUs are found on soils of the outwash plain or the better-drained soils of the Elmendorf moraine. Typically, these soils are the Kasilof, silt loam on the outwash plain and different slope phases of Homestead soils on the moraine. Seven soil sampling locations were drilled and sampled on the moraine, and the remaining seven locations were located on the outwash plain.

The background areas and soil sampling locations are shown on Figure 5.1. Borings 7, 8, 9, 10, 11, and 13 were drilled and sampled on the moraine, and Borings 1, 2, 3, 4, 5, 6, and 12 were on the outwash plain.

5.2 SOIL SAMPLING ACTIVITIES

5.2.1 Methods

5.2.1.1 Soil Sampling

Based on the number of samples and sampling locations described above, 14 soil borings were planned. Borings were made using a Nodwell-mounted mobile B-61 drill rig with 7-inch-outside-diameter (OD) hollow-stem augers. Boring depths ranged from 4 to 35 feet. Samples were collected from each boring at a minimum of three depths:

- Surface samples — 0.0 to 0.5 feet
- Root zone samples — 0.5 to 3.0 feet
- Deep soil samples — Depth between 3.0 feet and groundwater level.

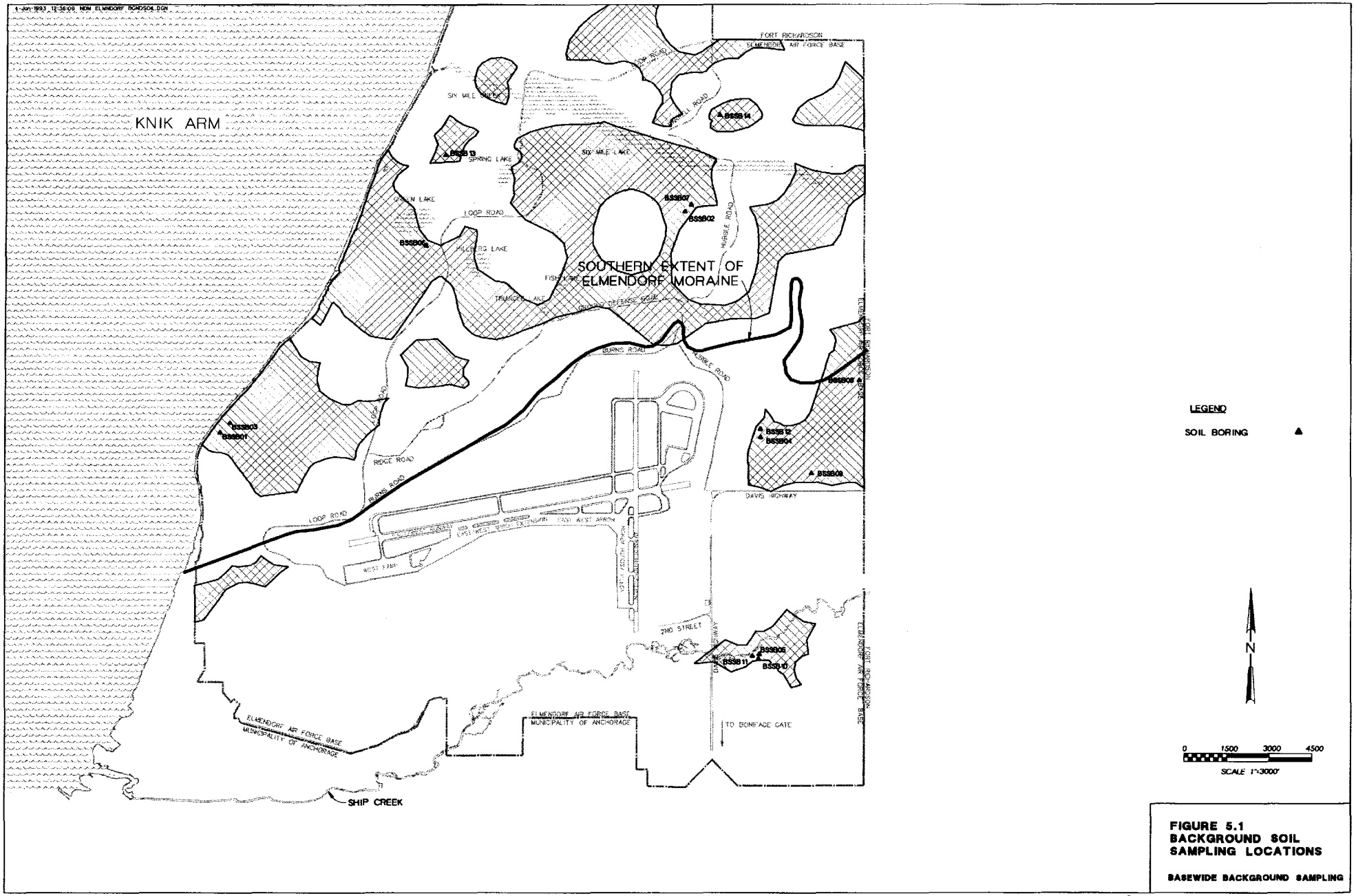


FIGURE 5.1
BACKGROUND SOIL SAMPLING LOCATIONS

BASEWIDE BACKGROUND SAMPLING

Samples were collected with a 3-inch-OD by 2.5-inch-inner-diameter (ID) stainless steel split-barrel Blue Bore (SH) sampler, driven by a 140-pound hammer falling 30 inches. Field procedures were recorded in the field log book.

Boring locations were located using a Brunton compass and 300-foot graduated fiberglass measuring tape. This information was collected in field logbooks and transferred to the boring location map. Throughout the field investigation, care was taken to avoid felling trees or damaging wetlands.

Each split-barrel sampler was recovered, opened, and the contents laid out on a clean polyethylene tarp. The sampling procedures were

- Soil was photographed and visually inspected. Soil classifications were recorded in the soil boring log forms.
- If groundwater was encountered during or after the drilling, levels were recorded.
- A small, representative portion of the soil was collected and headspace analysis was performed using an HNu photoionization detector (PID). Levels of organic vapors above 1 ppm greater than background were noted.
- A representative portion of soil was placed in an 8-ounce, wide-mouth, glass container, and submitted to the CH2M HILL Redding laboratory for metals analysis.

Headspace analysis was performed on soils recovered from borings to detect signs of contamination in background areas. Additional field screening procedures included visual and olfactory observations. Any potentially contaminated soils were sampled for additional analysis. All observations were noted in the field log book and the soil boring logs.

5.2.1.2 Soil Classification

Soil samples and auger cuttings were visually inspected, described and logged by a field geologist. Work was performed in accordance with the American Society for Testing Material (ASTM) D-2488, *Description and Identification of Soil (Visual-Manual Procedure)*. Soil descriptions included:

- soil texture class
- color
- moisture content
- grain size
- particle shape
- soil structure

- Unified Soil Classification System symbol
- odor, organic content, and any other outstanding features.

5.2.1.3 Field Quality Assurance

Quality assurance for background sampling efforts was accomplished through field audits and supervisor reviews. Details are discussed in Section 3.9 of the Quality Assurance Project Plan. Field activities were recorded in the field logbook. Specific field logbook procedures are listed in Section 2.1 of the BBSP. Completed logbook entries were quality control (QC) checked and signed by a second individual.

Field instruments were calibrated at least twice a day; once before their use, and at the end of the day after their use.

Field QC samples consisted of field duplicates and equipment rinsate samples. Field duplicate samples are those samples taken from the same media at the same time that the original sample is collected. Equipment rinsate samples are collections of deionized water which is rinsed over sampling equipment just before the equipment is used. In addition to the 49 soil samples, 2 equipment blanks and 11 field duplicates were taken.

5.2.2 Field Sampling Results

5.2.2.1 Site Conditions

Fourteen borings were drilled by CH2M HILL from June 1 through June 8, 1992. The final boring locations have been marked on the Background Sampling Locations map (Figure 5.1). No significant modifications to the planned sampling procedures were required.

Field screening did not reveal signs of contamination in the sampling areas. No elevated levels of organics were found in soil cuttings or samples. Groundwater was encountered during drilling in all borings except numbers 4, 8, 9, 12, and 14. Water levels were measured and logged on the soil boring logs.

5.2.2.2 Soil Classification

Soil boring logs were completed for all 14 borings; they are included in Appendix I, along with a soil classification key. Other field observations of soil characteristics are noted in Appendix J, the soil sampling field logbook. The types of soils found are summarized below.

Borings BSSB07, BSSB08, BSSB09, BSSB10, BSSB11, BSSB13, and BSSB14 were drilled in the moraine. Soil conditions found in the moraine borings generally consisted of a surficial organic layer overlying a mantle of loess, followed by either coarse glacial fluvial deposits or interbedded glacial till and glacial fluvial deposits.

Borings BSSB01, BSSB02, BSSB03, BSSB04, BSSB05, BSSB06 and BSSB12 were drilled in the outwash plain. Outwash plain borings also contained a very thin organic layer and loess mantle, along with interbedded silt, sand and gravel.

The organic layer found in all borings ranged from 1 to 4 inches in thickness and consisted of a mixture of very soft to soft organic debris and peat. The underlying loess consists of stiff to very stiff silt and sandy silt, ranging from 0.5 to 3 feet in thickness.

Borings BSSB14, BSSB11, BSSB10, and BSSB07 contained varying amounts of glacial till deposits (consisting of intermixed silt, sand, and gravel, along with occasional cobbles) interbedded with glacial fluvial deposits. The deposits were encountered in all borings and consist of loose to very dense sand and gravel.

In Borings BSSB01, BSSB03 and BSSB13, stiff clay with low plasticity was encountered at a depths of 7.5, 16, and 7 feet, respectively.

5.2.3 Laboratory Analysis for Metals

5.2.3.1 Analytical Methods

The soil samples collected during the background sampling task were analyzed for metals. The analytes, test methods used, and method detection limits (MDLs) are listed in Table 5.1. Note that the MDL may change each month when the laboratory experimentally determines detection limits. Results were reported in milligrams of analyte per kilograms of soil on a dry weight basis, according to contract laboratory program (CLP) specifications.

5.2.3.2 Quality Assurance and Quality Control

The QA/QC procedures for the background sampling task were consistent with the EPA guidance document, *Interim Guidelines and Specifications for Preparing Quality Assurance Project Plans, QAMS-005-80*. The procedures were described in the Basewide Background Sampling Plan, Section 3.0.

The goal for completeness was 80 percent, and the goals for accuracy were 70 to 130 percent recovery for metals in soil.

The precision goals for duplicates were less than or equal to 50 percent relative percent difference (RPD) for laboratory duplicate pair analysis and less than or equal to 100 percent RPD for field duplicates. The recommended frequency for field duplicates is 5 to 10 percent of the samples collected; 11 duplicates were taken for 49 soil samples.

Two concentration data qualifiers were associated with the laboratory results in addition to the qualifiers associated with the data validation. A "B" flag is assigned when the metals result is less than the CRDL (contract required detection limit), but above the IDL (instrument detection limit). The "U" concentration qualifier indicates that the analyte was not detected at the level reported concentration; the reported concentration is the method detection limit. These flags affected values that were assigned in the calculation of statistical characteristics.

TABLE 5.1. Analytical Methods and Detection Limits		
Analyte	**Test Method[a]**	**Method Detection Limits[b] (mg/kg)**
aluminum	EPA 6010	3.04
antimony	EPA 6010	1.74
arsenic	EPA 7060	0.10
barium	EPA 6010	0.08
beryllium	EPA 6010	0.04
cadmium	EPA 6010	0.22
calcium	EPA 6010	4.56
chromium	EPA 6010	0.32
cobalt	EPA 6010	0.48
copper	EPA 6010	0.28
iron	EPA 6010	2.42
lead	EPA 6010	2.70
magnesium	EPA 6010	3.00
manganese	EPA 6010	0.06
mercury	EPA 7471	0.028
nickel	EPA 6010	0.84
potassium	EPA 6010	52.6
selenium	EPA 7740	0.10
silver	EPA 6010	0.36
sodium	EPA 6010	9.26
thallium	EPA 7840	0.14
vanadium	EPA 6010	0.22
zinc	EPA 6010	0.20

[a]Preparation procedure is EPA 3050.
[b]MDL changes slightly each month. For inorganics, it is also a function of moisture content.

5.3 DATA VALIDATION

5.3.1 Data Validation Procedures

The laboratory data quality assurance packages prepared to facilitate the validation of the background soils data were CLP Level IV data packages. Laboratory data were validated according to EPA Region X procedures for data validation as described in EPA Sample Management Office Technical Directive Document No. HQ-8410, Contract No. 68-01-6699 (EPA 1989).

The validation was broken into two phases. Initially, the QC and raw field sample data from the first batch of 20 samples was validated. The results of this data validation indicated that the completeness goal of 80 percent had been met. Subsequently, when the remaining batches of data were generated by the laboratory, 50 percent of the raw field sample data from 48 samples and 100 percent of the remaining laboratory QC data were validated.

5.3.2 Summary of Results

As a result of the data validation, the data have met the acceptance criteria outlined in the BBSP and are usable for the purposes outlined in the context of the data quality objectives.

The BBSP set the completeness objective at 80 percent for acceptable analytical data based on precision and accuracy. This figure represents the percent of data considered usable compared to the total number of samples analyzed. All metals, except antimony and selenium, met the completeness objective for accuracy. All metals, except iron and manganese, met the completeness objective for precision.

Minor nonconformances in the data were identified during the completion of the data validation. Minor nonconformances from the quality assurance/quality control (QA/QC) data are summarized below.

- Sodium and calcium results were qualified as non-detected and flagged with a "U" as a result of blank contamination.
- Iron and manganese results were qualified as estimates and flagged with a "J" for positive results, or a "UJ" for non-detects because laboratory duplicate results did not meet precision criteria.
- Antimony and selenium results were qualified as biased low and flagged with an "L" for positive results, a "UL" for non-detected results due to low matrix spike recoveries.
- Selenium and thallium results were qualified as biased low and flagged with an "L" for positive results, or a "UL" for non-detected results due to low analytical spike recoveries.

5.4 DATA ANALYSIS

5.4.1 Methods

5.4.1.1 Data Reduction

Data arrived from the laboratory in electronic format. Before statistical analysis of the data could begin, the following operations were required:

- QA/QC: Every analysis result was cross-checked with the hard copy results to verify that no errors had occurred in the translation to electronic form.

- Field duplicates: All duplicate results were averaged to a single data point for each metal. This is standard treatment of field duplicates for statistical analysis.

- Data validation: As part of the data validation described above, quality qualifiers were added to some of the sample results. The data qualifiers which required some change to be made to the data values were those which resulted from contamination of the equipment blanks. Since these samples may have shown positive results due to contamination, the data points were dropped from the statistical analysis.

- Treatment of non-detects: As described in the QA/QC section of this report, there were two types of concentration qualifiers assigned to the laboratory result—"B" and "U" flags. For the statistical analysis, those results flagged as "B" were included as valid; no change in value was required. The non-detect values (U) were included in the analyses, as they provide valid information about the metals levels. Data points with the "U" flag were assigned a value of one-half the MDL. This is a standard convention, as the true metal content of the sample lies somewhere between zero and the MDL.

- Addition of sample location fields: In order to analyze the background sample data's dependence on landform and soil depth, each data point had to be identified with a type of landform and sampling depth associated with its location. Two fields were added to the data—a depth range and a landform type. Data were classified as one of three depths. Samples taken from depths of 0 to 0.5 feet were labeled as surface samples. Root zone samples were defined as those taken at 0.5 to 3 feet. Samples taken from soil lying deeper than 3 feet was classified as deep. The landform classifications were alluvial and morainal.

5.4.1.2 Analysis of Distributions

At the time of selection of sample number and location, little was known about the characteristics of the distribution of metals concentrations in soils on the base. For this reason, order statistics were used to select an

appropriate type and number of sampling locations. The soil sampling task provides the data required to characterize the background metals distribution(s) using parametric statistics, but calculation of these values requires knowledge of the data distributions. For example, equations appropriate for calculating a mean and standard deviation for a normal distribution differ from those appropriate for a lognormal distribution.

Before the properties of the background soil metals content could be calculated, the type of data distributions and sets of data which could be pooled as belonging to the same distribution had to be determined. Graphical tools, including box plots and probability plots, are available to assist in the exploratory data analysis phase. These tools provide information about the number and types of distributions represented by the data.

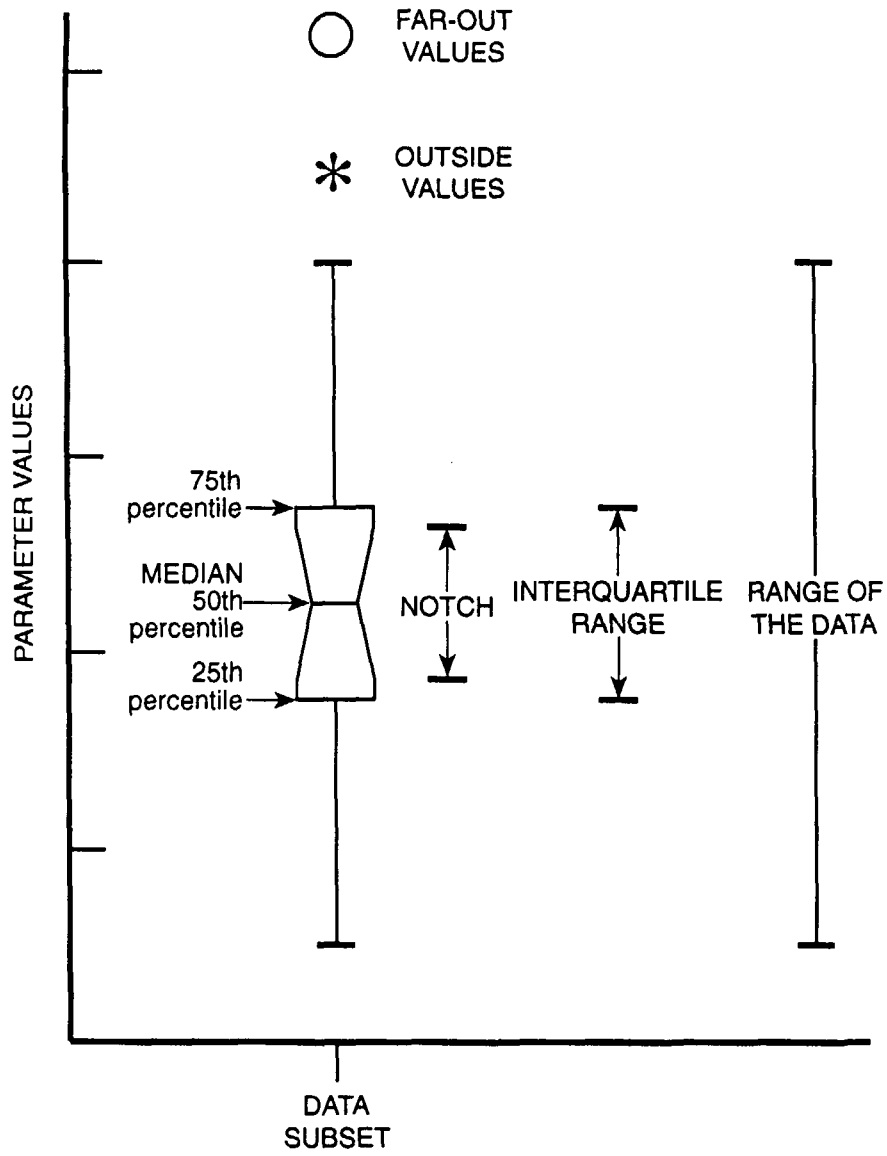
Box Plots

An example of a box plot is shown in Figure 5.2; the important statistics are labeled. The bottom of the box is the 25th percentile of the data; the line in the interior of the box is the median (50th percentile); and the top of the box is at the 75th percentile. Lines extend from the ends of the box to the range of the data, excluding outliers. The distance between the 75th percentile and the 25th percentile is known as the interquartile range (IQR). Values more than 1.5 times the IQR beyond the ends of the box are marked with an asterisk (*). Values more than three times the IQR beyond the ends are called far out values. These values are marked with a circle. A notch in the box indicates the approximate 95th percent confidence limits on the median, which indicate that to the 95 percent confidence level, the median of the population lies within these limits.

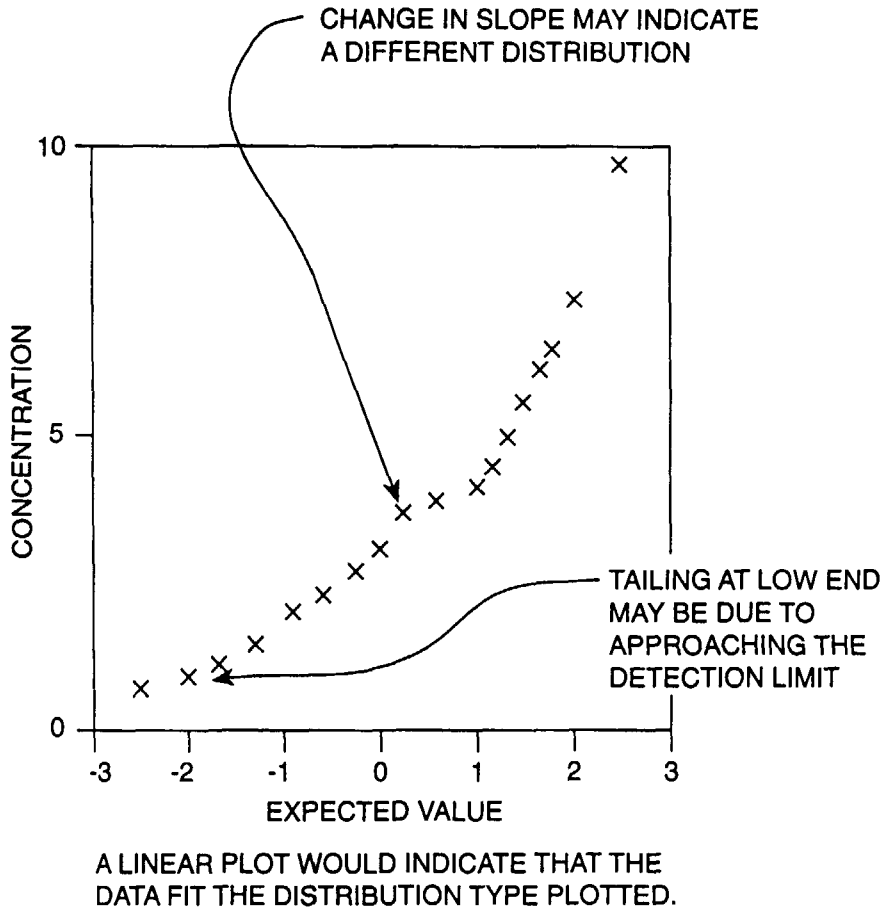
Multiple sets of data can be compared by plotting the boxes on the same set of axes and comparing the confidence limits about the median. If these do not overlap, then a significant difference in the median of the two distributions is indicated; the two sets of data are not likely part of the same distribution. Similarly, other features of the plots can be visually compared to assess whether major data categories may be combined.

Probability Plots

A second visual tool is useful for judging whether different categories of data belong to the same distribution, and for assessing the type of distribution to which the data belong. This graphical tool is called the probability plot; a sample appears in Figure 5.2. To use this plot, a type of distribution is assumed—a normal distribution, for example. Each measured value is plotted versus its expected value if the data do belong to the assumed distribution. If the assumption holds true, the individual data points will lie in a straight line. Deviations from a straight line indicate that data may not belong to the assumed type of distribution. A change in slope may indicate that the data are subsets of different distributions, and tailing at the low end may occur when values approach the detection limit.



BOX PLOT



A LINEAR PLOT WOULD INDICATE THAT THE DATA FIT THE DISTRIBUTION TYPE PLOTTED.

PROBABILITY PLOT

FIGURE 5.2
GENERIC BOX PLOT
AND PROBABILITY PLOT
BASEWIDE BACKGROUND SAMPLING

Soil Data Analysis Steps

When the sampling locations were developed, they were stratified for alluvial and morainal land formation. Characterizing the distribution of soil metals content at Elmendorf AFB required determining whether two sets of parameters, one for each formation, would need to be generated, or whether the data could be pooled. It was also recognized that metals concentrations might differ according to soil depth. To address the issue of whether these location categories represented separate populations, the reduced soil metals content data was divided into six categories using the land formation and depth flags described above. The six categories were

- Alluvial formation—surface, root zone, deep soil
- Morainal formation—surface, root zone, deep soil

For each of 23 metals, box plots for the six categories of data were created on the same concentration axis. The characteristics of the box plots were visually compared to examine how the data were distributed. Based on the results of the box plots, data were regrouped so that values which appeared to belong to the same population were plotted as a single distribution.

The second type of plot generated was the probability plot. For a single metal, all data points were plotted on the same concentration scale as the box plots to allow direct comparisons of the data in the two plots. Individual data points were labeled according to the land formation to which they belonged. The resulting set of data was analyzed for shape, slope, and incongruities to assess the number and types of distributions represented. To examine whether the data were better represented by a lognormal distribution, the plots were regenerated using a logarithmic scale; the better representation of the population was that which best approximated a straight line.

5.4.1.3 Calculation of Statistical Characteristics

Once the data sets that were to be pooled into single populations had been established, the estimates of the statistical characteristics were calculated. Values for each metal were generated for each population. The statistical characteristics estimated included minimum value, maximum value, mean, standard deviation, upper tolerance limit, and confidence limit for the mean.

The upper tolerance limit (UTL) was estimated using the equation for a normal distribution:

$$UTL = x + (K \times s)$$

where x is the estimated sample mean, K is the tolerance factor, and s is the estimated standard deviation.

The tolerance limit was calculated for the 99th percentile with an associated 95 percent confidence level. This means that, if the normal distribution approximation is a valid representation of the population's actual distribution,

there is a 95 percent probability that only 1 out of 100 values will fall above this upper tolerance limit.

The following equation was used to calculate the confidence limit for the mean:

$$CI = x \pm t \times (s/\sqrt{n})$$

where CI is the confidence interval, x and s remain as defined above, *t* is the critical value of the t distribution, and n is the number of observations from the normal population.

When applying the confidence interval to determine whether a group of samples have metals concentration greater than the background, only the upper confidence limit is of concern. A one-sided, 99 percent confidence limit was calculated; there is a 99 percent probability that the mean of a group of samples from this population will fall beneath this limit.

5.4.2 Results

5.4.2.1 Data Reduction

The electronic data set delivered from the laboratory consisted of results for 60 soil samples, each analyzed for 23 metals, or 1380 data points. A comparison of each result in the electronic version with the hard copy values identified only one inconsistency. A copy of the raw data appears in Appendix K.

In preparation for statistical analysis, the data was reduced and treated as described above. Operations that changed the number of data points or their values were

- Field duplicates: The averaging of field duplicate results decreased the number of data points from 1380 to 1127.

- Data validation: The data validation resulted in 11 points being flagged for equipment blank contamination—one calcium and ten sodium results. Therefore, 11 points were dropped from the data set. All other data were treated as valid estimates of metals concentration. After deletion, 1116 data points were available for statistical analysis.

Table 5.2 contains a summary of the results of metals analysis after data reduction. The data have been classified by metal type, land formation and sample depth. Data range, number of points, and number of non-detects are listed for each classification.

5.4.2.2 Analysis of Distributions

Box plots were produced for each of the 23 metals, using the six categories of sampling locations. From the plots, it was clear that there was no

TABLE 5.2. Summary of Results of Metals Analysis in Soil Borings						
Metal	Landform	Depth	Number of Data Points	Number of Non-detects	Concentrations* mg/kg dry soil	
					Minimum	Maximum
Aluminum	Morainal	Surface	7	0	4,750	24,900
		Root Zone	7	0	16,500	23,800
		Deep	11	0	9,830	15,250
	Alluvial	Surface	7	0	8,920	25,000
		Root Zone	7	0	14,850	22,000
		Deep	10	0	11,100	16,600
Antimony	Morainal	Surface	7	6	1.45	3.4
		Root Zone	7	7	1.25	1.5
		Deep	11	11	1.1	1.3
	Alluvial	Surface	7	7	1.6	1.9
		Root Zone	7	7	1.2	1.6
		Deep	10	9	1.15	3.1
Arsenic	Morainal	Surface	7	0	3.9	9
		Root Zone	7	0	4.7	9.6
		Deep	11	0	3.5	8.35
	Alluvial	Surface	7	0	4.4	13.1
		Root Zone	7	0	5.45	7.6
		Deep	10	0	4	7.5
Barium	Morainal	Surface	7	0	77.25	141
		Root Zone	7	0	64.5	171
		Deep	11	0	38.8	71.8
	Alluvial	Surface	7	0	90.9	154
		Root Zone	7	0	43.4	131
		Deep	10	0	37.1	82.5
Beryllium	Morainal	Surface	7	3	0.12	0.47
		Root Zone	7	0	0.32	0.5
		Deep	11	2	0.09	0.4
	Alluvial	Surface	7	0	0.31	0.62
		Root Zone	7	0	0.29	0.55
		Deep	10	1	0.085	0.48

TABLE 5.2. (Cont'd)						
Metal	Landform	Depth	Number of Data Points	Number of Non-detects	Concentrations* mg/kg dry soil	
					Minimum	Maximum
Cadmium	Morainal	Surface	7	1	0.17	1.95
		Root Zone	7	0	1.4	1.9
		Deep	11	0	0.96	2.7
	Alluvial	Surface	7	1	0.17	1.7
		Root Zone	7	0	0.93	1.8
		Deep	10	0	1.3	2.6
Calcium	Morainal	Surface	7	0	1,760	8,210
		Root Zone	7	0	1,830	7,530
		Deep	10	0	4,345	10,800
	Alluvial	Surface	7	0	1,330	3,120
		Root Zone	7	0	1,730	3,465
		Deep	10	0	2,980	6,510
Chromium	Morainal	Surface	7	0	10.8	34.3
		Root Zone	7	0	21.8	45.3
		Deep	11	0	18.5	80.9
	Alluvial	Surface	7	0	9.6	31.6
		Root Zone	7	0	19	35.9
		Deep	10	0	24	57.2
Cobalt	Morainal	Surface	7	1	1.3	12.6
		Root Zone	7	0	9	14.3
		Deep	11	0	7.2	16.6
	Alluvial	Surface	7	1	1.35	9.2
		Root Zone	7	0	7.2	14.3
		Deep	10	0	9.7	13.1
Copper	Morainal	Surface	7	0	7.8	24.8
		Root Zone	7	0	17.5	24.05
		Deep	11	0	14.5	59.9
	Alluvial	Surface	7	0	9.35	18.7
		Root Zone	7	0	13.95	28.3
		Deep	10	0	21.3	38.9

TABLE 5.2. (Cont'd)						
Metal	Landform	Depth	Number of Data Points	Number of Non-detects	Concentrations* mg/kg dry soil	
					Minimum	Maximum
Iron	Morainal	Surface	7	0	8,970	30,200
		Root Zone	7	0	23,600	32,000
		Deep	11	0	18,500	38,000
	Alluvial	Surface	7	0	11,600	32,700
		Root Zone	7	0	23,450	31,100
		Deep	10	0	21,000	30,400
Lead	Morainal	Surface	7	0	4.3	7.3
		Root Zone	7	0	4.1	6.5
		Deep	11	0	3	9.1
	Alluvial	Surface	7	0	6.1	11.1
		Root Zone	7	0	4.9	7
		Deep	10	0	3.45	7.4
Magnesium	Morainal	Surface	7	0	769	6,610
		Root Zone	7	0	4,480	10,100
		Deep	11	0	3,690	14,800
	Alluvial	Surface	7	0	791	4,060
		Root Zone	7	0	2,160	8,700
		Deep	10	0	7,010	10,700
Manganese	Morainal	Surface	7	0	67.8	738
		Root Zone	7	0	290	567
		Deep	11	0	375	596.5
	Alluvial	Surface	7	0	69.4	438
		Root Zone	7	0	193.5	742.5
		Deep	10	0	456	640
Mercury	Morainal	Surface	7	0	0.06	0.15
		Root Zone	7	0	0.04	0.22
		Deep	11	0	0.04	0.165
	Alluvial	Surface	7	0	0.05	0.14
		Root Zone	7	0	0.04	0.08
		Deep	10	0	0.05	0.11

TABLE 5.2. (Cont'd)						
Metal	Landform	Depth	Number of Data Points	Number of Non-detects	Concentrations* mg/kg dry soil	
					Minimum	Maximum
Nickel	Morainal	Surface	7	1	1.3	31.7
		Root Zone	7	0	21.2	44.5
		Deep	11	0	17.6	73.1
	Alluvial	Surface	7	1	1.35	24.9
		Root Zone	7	0	11	41.2
		Deep	10	0	28.5	45.5
Potassium	Morainal	Surface	7	0	244	685
		Root Zone	7	0	236	629.5
		Deep	11	0	221	842
	Alluvial	Surface	7	0	259	669
		Root Zone	7	0	337	586
		Deep	10	0	409	792
Selenium	Morainal	Surface	7	1	0.055	0.41
		Root Zone	7	2	0.045	0.29
		Deep	11	8	0.04	0.4
	Alluvial	Surface	7	0	0.23	0.51
		Root Zone	7	1	0.05	0.28
		Deep	10	8	0.04	0.4
Silver	Morainal	Surface	7	1	0.24	1.1
		Root Zone	7	2	0.16	0.81
		Deep	11	3	0.145	0.775
	Alluvial	Surface	7	3	0.23	1.6
		Root Zone	7	3	0.17	1.2
		Deep	10	3	0.145	0.65
Sodium	Morainal	Surface	5	0	242	381
		Root Zone	5	0	233	285
		Deep	9	0	218	306
	Alluvial	Surface	6	0	291	369
		Root Zone	6	0	178.5	317

TABLE 5.2. (Cont'd)

Metal	Landform	Depth	Number of Data Points	Number of Non-detects	Concentrations* mg/kg dry soil	
					Minimum	Maximum
		Deep	8	0	181	228
Thallium	Morainal	Surface	7	7	0.105	0.135
		Root Zone	7	7	0.09	0.11
		Deep	11	11	0.08	0.095
	Alluvial	Surface	7	6	0.115	0.28
		Root Zone	7	7	0.085	0.115
		Deep	10	9	0.085	0.19
Vanadium	Morainal	Surface	7	0	21.5	70.45
		Root Zone	7	0	47.1	76.6
		Deep	11	0	33.2	55.9
	Alluvial	Surface	7	0	24.1	83.1
		Root Zone	7	0	46.85	73.25
		Deep	10	0	35.7	59.9
Zinc	Morainal	Surface	7	0	12.9	77.7
		Root Zone	7	0	41.2	61.1
		Deep	11	0	34.1	60.9
	Alluvial	Surface	7	0	16.8	49.7
		Root Zone	7	0	33.65	62.9
		Deep	10	0	45.6	63

* Non-detects are assumed equal to one half of the detection limit.

statistically-significant difference between the alluvial and the morainal formations; however, differences were apparent between the three classes of sampling depth. Based on the results of these box plots, points from the two types of land formations were pooled, and a second set of box plots was generated. These pooled plots appear on the left side of Figures 5.3 through 5.25.

The second type of plots, probability plots, was generated using all data points for a given metal on a single plot. To identify the land formation associated with each point, the letter "x" was plotted for values from alluvial samples, and "o" marked values from the morainal areas. Initially, the normal distribution was assumed. The resulting curves fit a straight line model fairly well. To see whether the assumption of a lognormal distribution improved the line fit, the probability plots were repeated on a log scale. This model did not produce an improved fit, so the original normal distribution model was selected for representation of the metals concentration data. The probability plots for a normal distribution assumption appear on the right side of Figures 5.3 through 5.25.

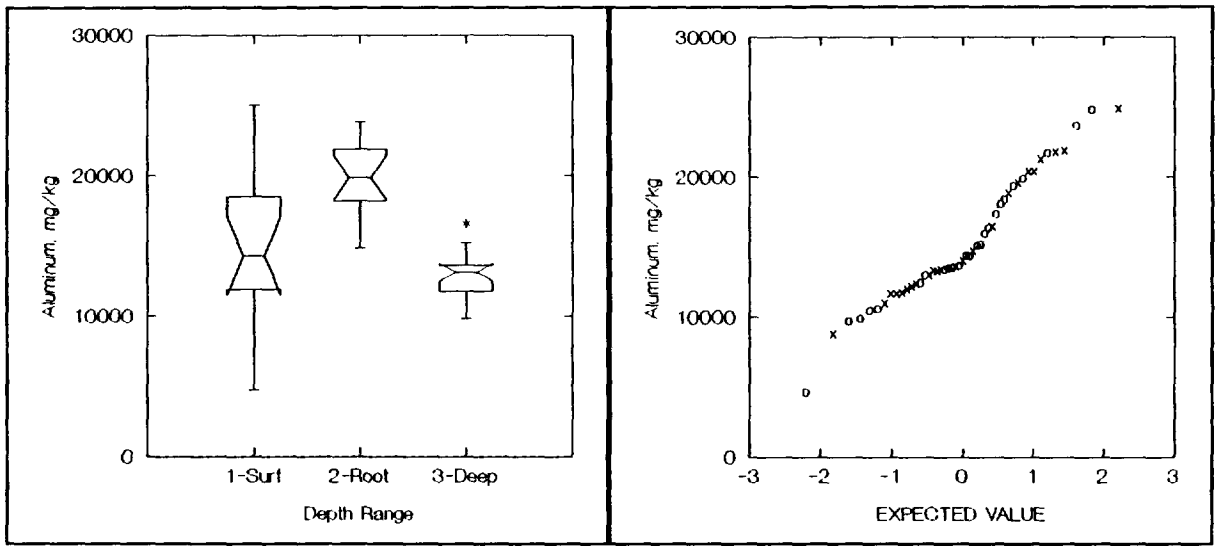
The MDL appears as a dotted line on all plots. The MDL is an approximation because it is a function of the specific sample being analyzed through the standardization of the metals content to a dry-weight basis. Detection limits appear at the maximum limit value reported for each metal. If the limit does not appear on a plot, its value is below the scale of the plots.

A metal-specific discussion of the plots follows, but several general observations about the plots are noted:

- The alluvial formation points are well-mixed within the morainal points. This is further indication that no statistically significant differences exist between the metals content of soils from these two formations.

- Discontinuities or changes in the slope of the probability plot curves may correspond to a new distribution of values, such as a different depth range as shown in the box plots.
- Because the plots are aligned with the same concentration scales, positions on the box plots correspond to points on the probability plots at the same vertical position.

Aluminum



LEGEND
X = alluvial soil
O = morainal soil

Figure 5.3. Box Plot and Probability Plot for Aluminum

The box plots show that all three depths are symmetrically distributed, as evidenced by the upper and lower halves being near mirror images of each other. The median of the root zone distribution is significantly different from those of the surface and the deep soil samples. The span of the surface data is noticeably wider than that of the other two depths.

In the probability plot (referred to as "p plot"), there are tailings on both ends, and the morainal (o) and alluvial (x) points are well-mixed throughout. The kink in the curve at approximately 14,000 mg/kg soil appears to line up with the top (75th percentile) of the deep soil distribution. Overall, the plots support the finding that soil-metal concentrations have different distributions by depth, but similar concentrations in the landforms that were sampled.

Aluminum is ubiquitous in the base environment, as evidenced by the high concentrations in the soil.

Antimony

(No figure.)

For antimony, 47 of 49 sample points yielded concentrations below the MDL of approximately 3.8 mg/kg. The MDL is an approximation because it is a function of the specific sample moisture content; 3.8 was the highest MDL reported (highest moisture content). Characteristic statistics were not calculated for antimony because the value of the true antimony content of each sample may lie anywhere between zero and the detection limit. The data indicate that approximately 96 percent of the population of background antimony soil concentrations are expected to be less than 3.8 mg/kg.

Arsenic

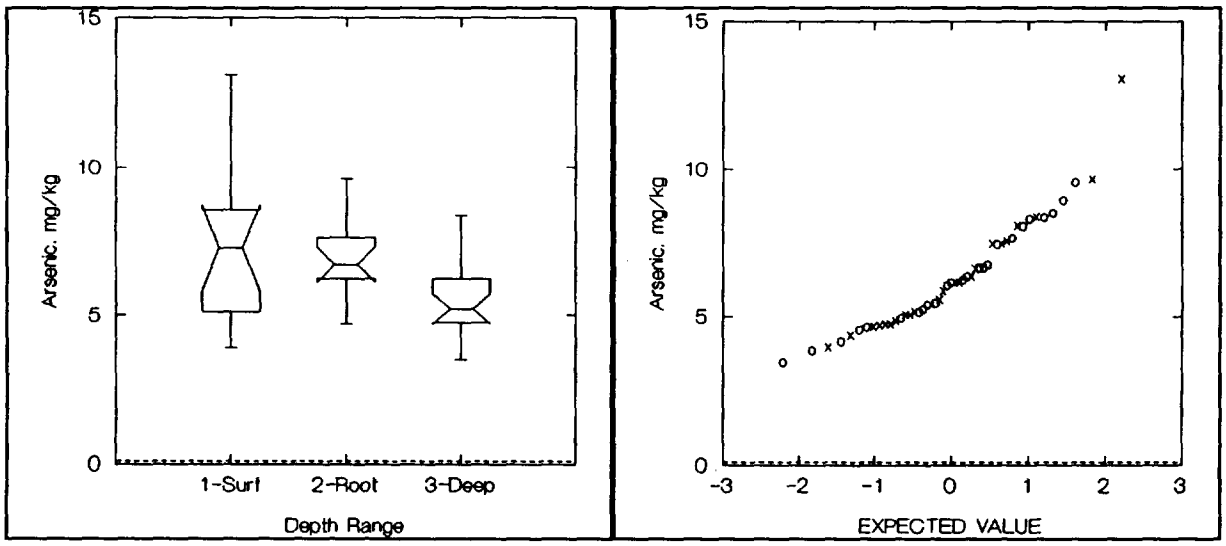


Figure 5.4. Box Plot and Probability Plot for Arsenic

The arsenic box plots show the three distributions having more overlap than the aluminum plots, but the data exhibit some of the same trends. The medians of the root zone and deep soil samples are significantly different, and the surface samples again have the broadest range. From the p plot, there is a single high value in the surface samples, but it still falls within the distribution as is indicated by the absence of outliers on the box plots.

Barium

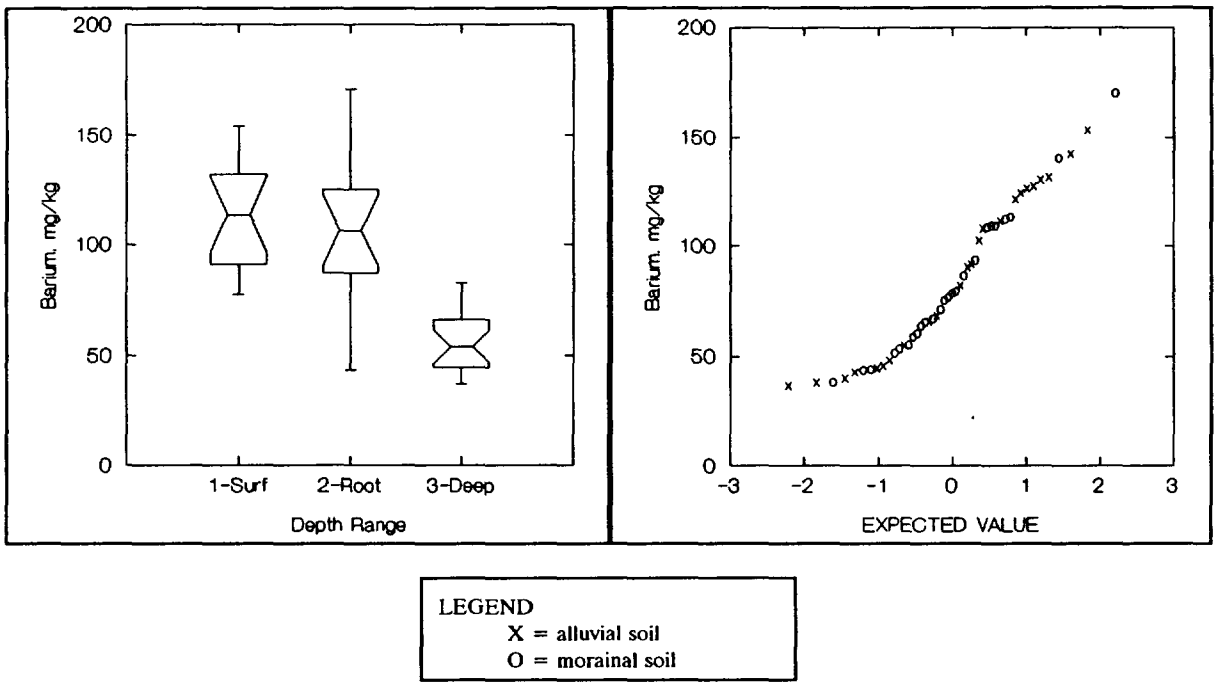
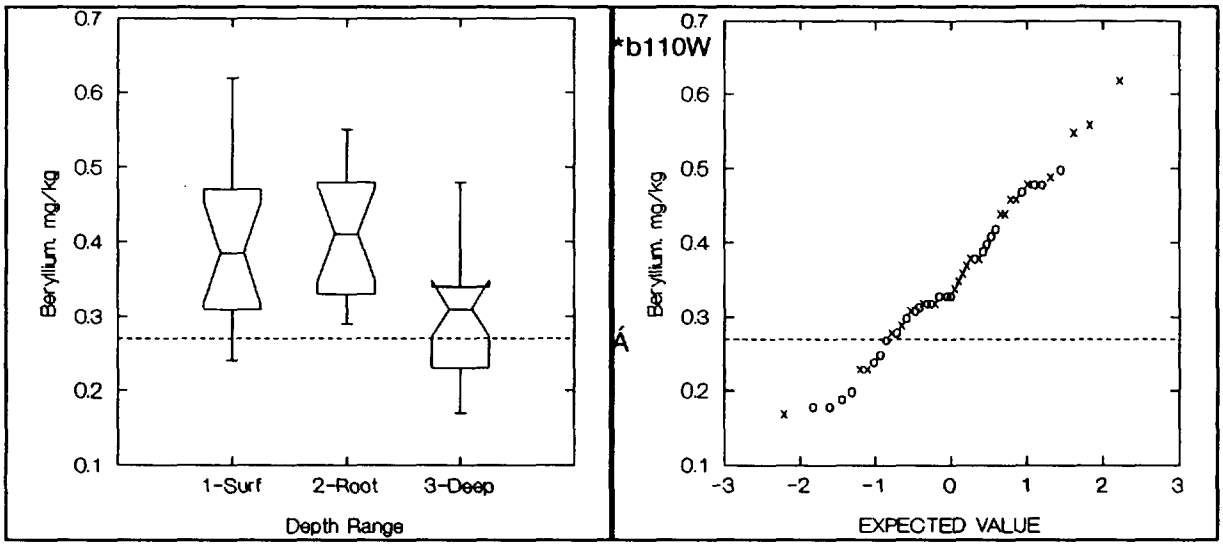


Figure 5.5. Box Plot and Probability Plot for Barium

The root zone of barium box plots contains the widest range of values. The medians of the surface and root zone samples are not significantly different. The deep soil samples again have the lowest metal concentrations. The p plot shows the gradual slope changes that may be associated with changes in distributions.

Beryllium

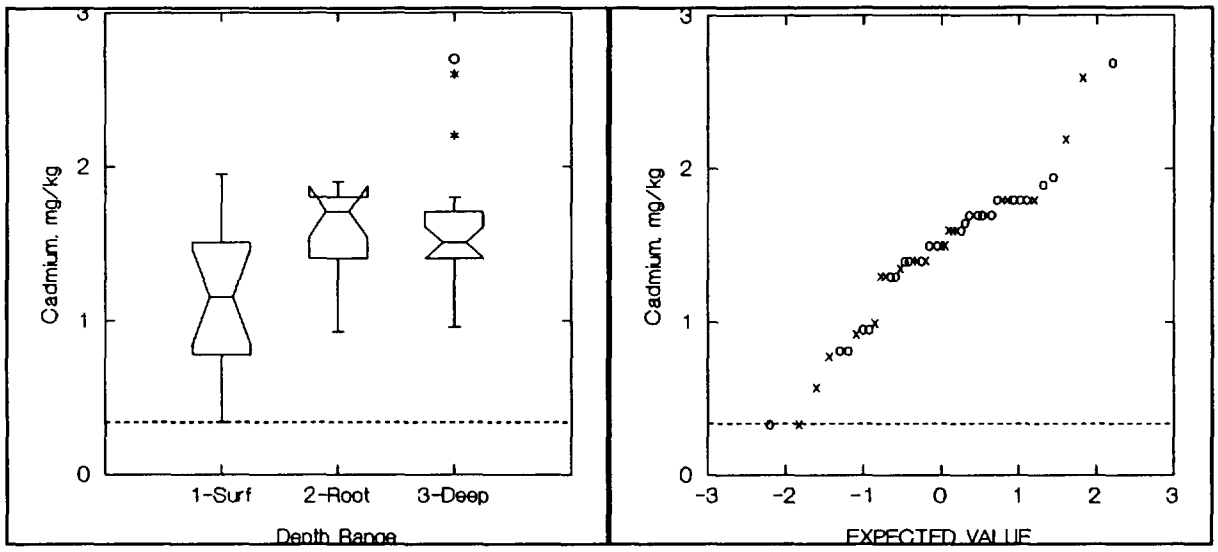


LEGEND
X = alluvial soil
O = morainal soil

Figure 5.6. Box Plot and Probability Plot for Beryllium

Beryllium had a total of six points below the MDL. The deeper soil samples have slightly lower metals concentrations than the other two depths.

Cadmium

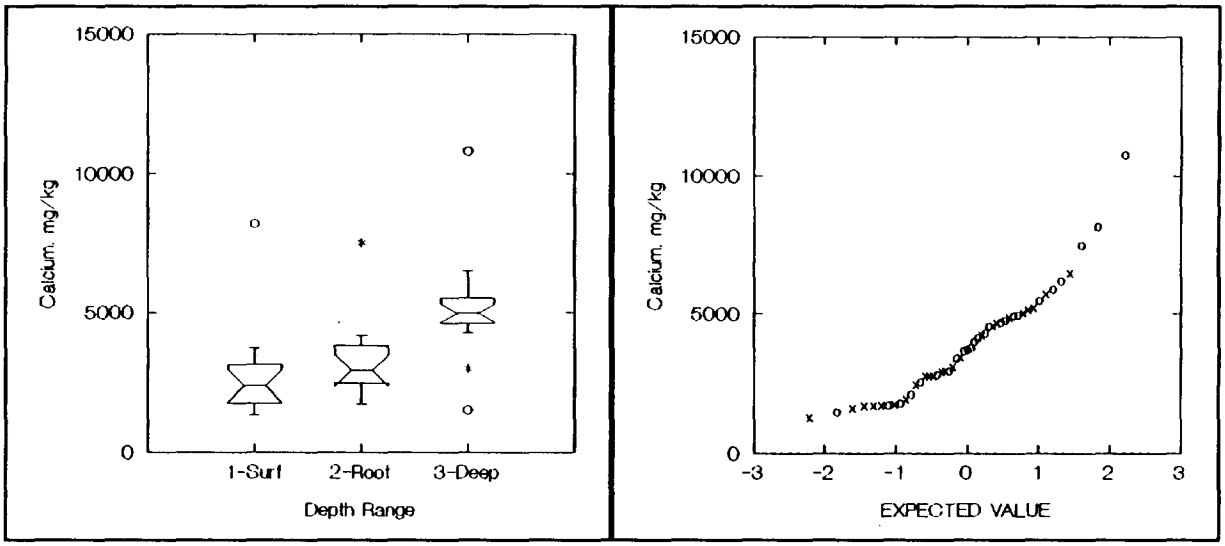


LEGEND
X = alluvial soil
O = morainal soil

Figure 5.7. Box Plot and Probability Plot for Cadmium

The cadmium surface samples had a median significantly lower than the root zone samples. There are three outliers in the distributions, all from the deep soil samples.

Calcium

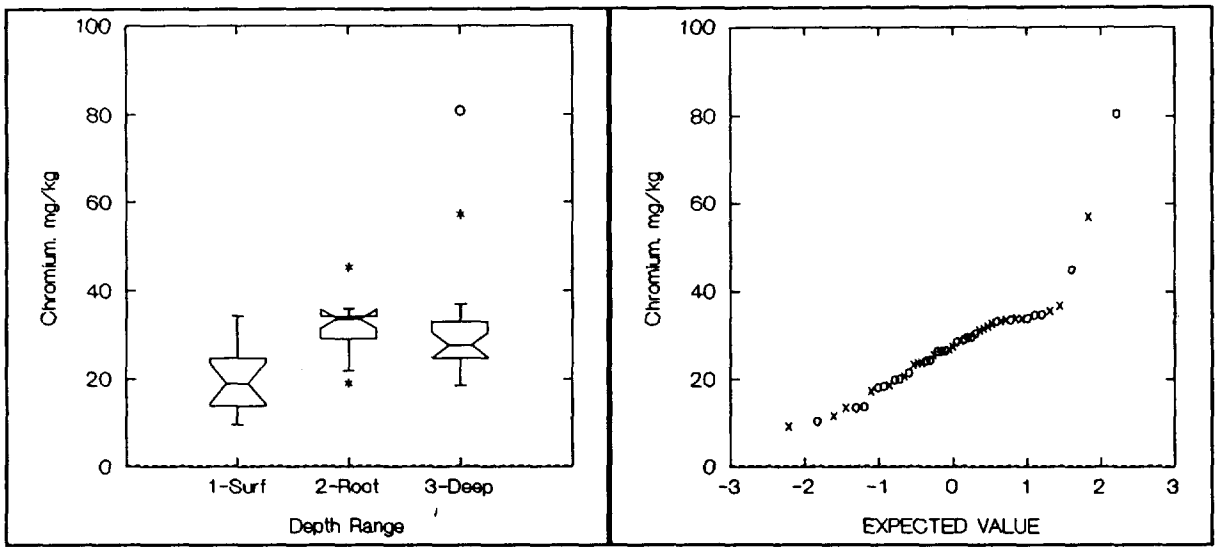


LEGEND
X = alluvial soil
O = morainal soil

Figure 5.8. Box Plot and Probability Plot for Calcium

All three sample depth ranges contain at least one outlier; the deep zone has both high and low outliers. The median of the deep soil samples is significantly higher than those from the surface and root zones. Calcium is the first metal showing higher concentrations in its deep samples.

Chromium



LEGEND
X = alluvial soil
O = morainal soil

Figure 5.9. Box Plot and Probability Plot for Chromium

The chromium samples contain four outliers, two in each of the deep soil and root zone samples. The p plot illustrates how the outliers do not fit on the straight line. They are most likely not part of the same distributions. The source of outliers will be discussed later in this section.

Cobalt

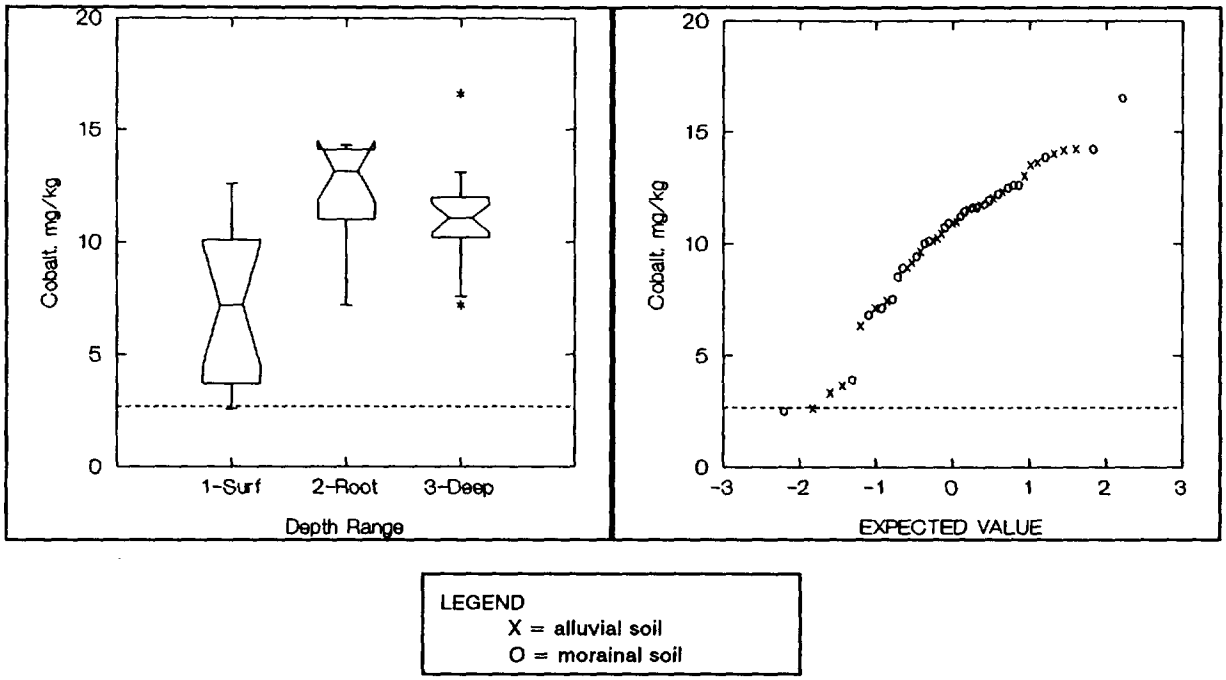
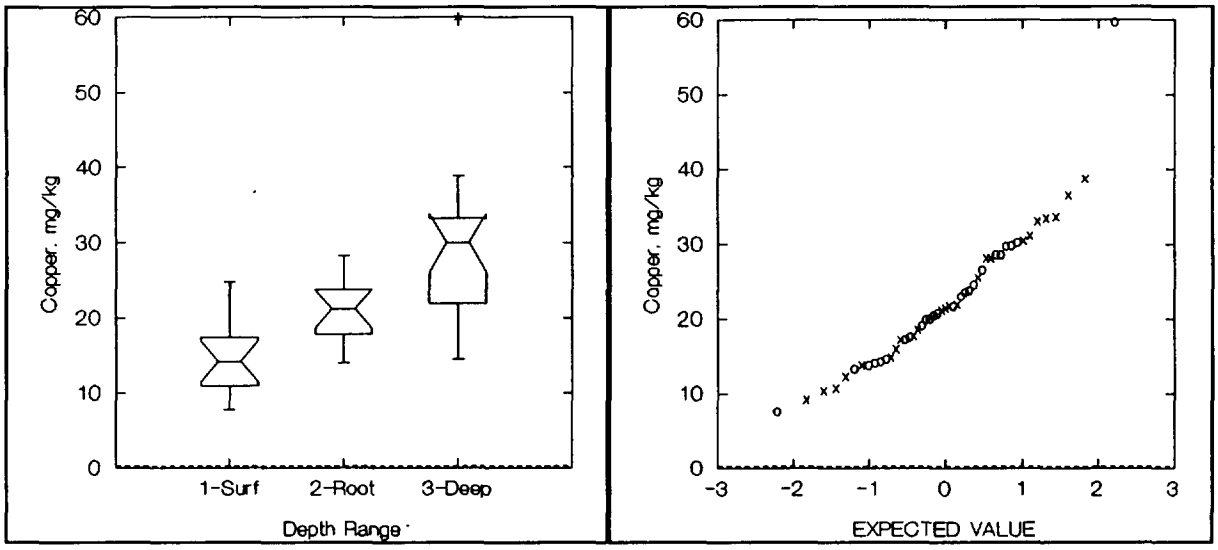


Figure 5.10. Box Plot and Probability Plot for Cobalt

Two surface soil samples had nondetectable cobalt concentrations. One sample was from the alluvial soil, the other from the moraine. The surface samples have the widest range of values. All three depth ranges have statistically different medians.

Copper

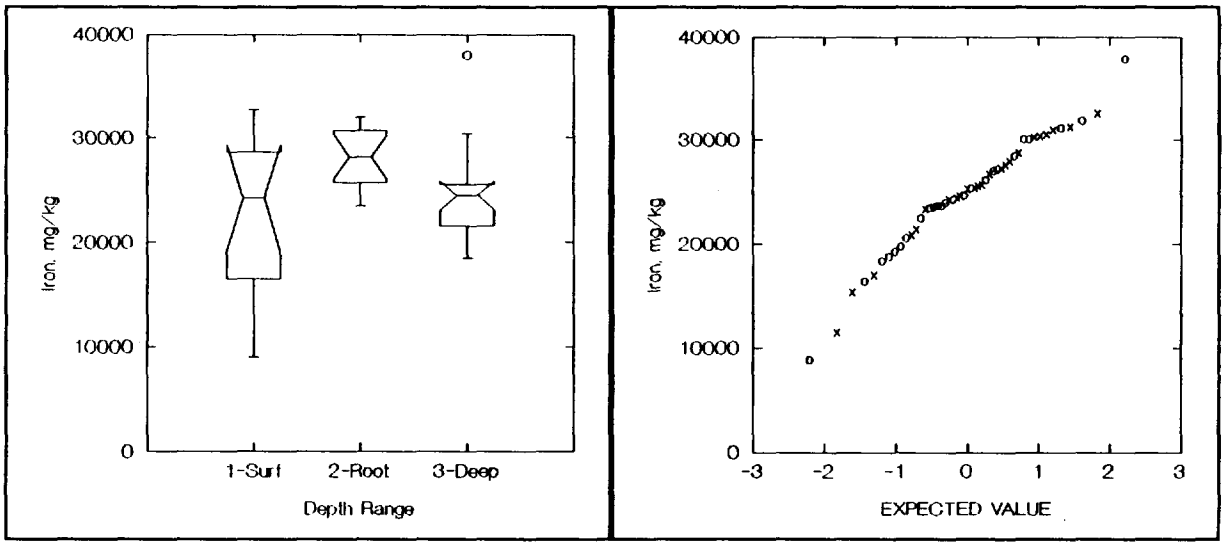


LEGEND
X = alluvial soil
O = morainal soil

Figure 5.11. Box Plot and Probability Plot for Copper

The copper concentrations increase with sample depth. Copper is the first metal with this trend. The distributions at all depths are well-defined and all three medians are statistically different. The p plot for copper has a good straight-line fit, indicating that the data are normally distributed. The exception is a single high value in the deep soil.

Iron

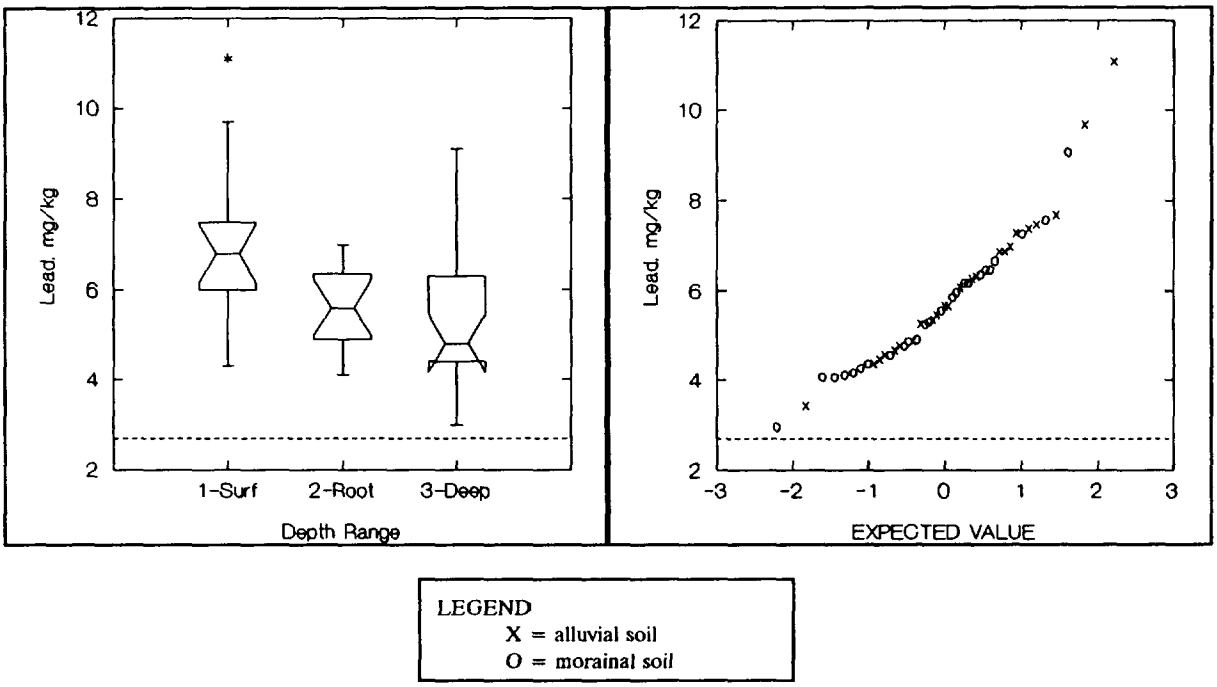


LEGEND
X = alluvial soil
O = morainal soil

Figure 5.12. Box Plot and Probability Plot for Iron

Iron concentrations were the highest of all metals tested. Iron content is known to be high in the Anchorage area. The surface samples show the highest spread. The three kinks in the p plot indicate three different standard deviations; these may correspond to the three depth ranges.

Lead

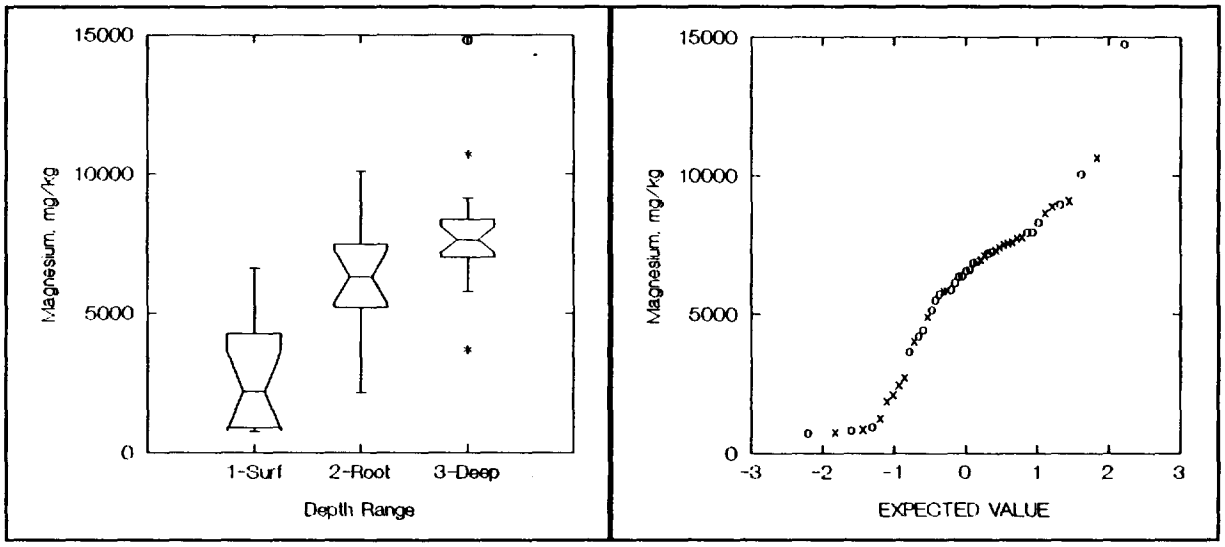


LEGEND
X = alluvial soil
O = morainal soil

Figure 5.13. Box Plot and Probability Plot for Lead

Lead concentrations decrease slightly with depth.

Magnesium



LEGEND
X = alluvial soil
O = morainal soil

Figure 5.14. Box Plot and Probability Plot for Magnesium

Magnesium concentrations, like copper, increase with sample depth. The three medians are statistically different. The deep samples have three outliers. The low end of the surface values shows a significant tailing on the p plot. This tailing indicates a different distribution present at very low values, which may be due to the concentration approaching the detection limit.

Manganese

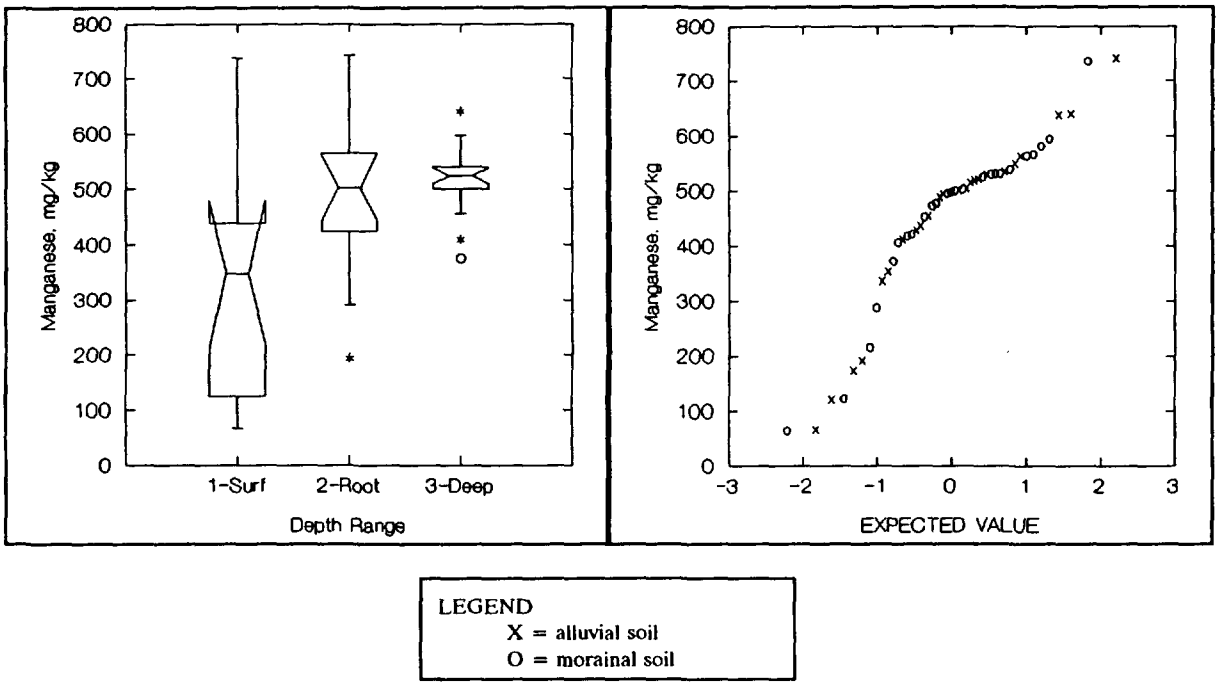
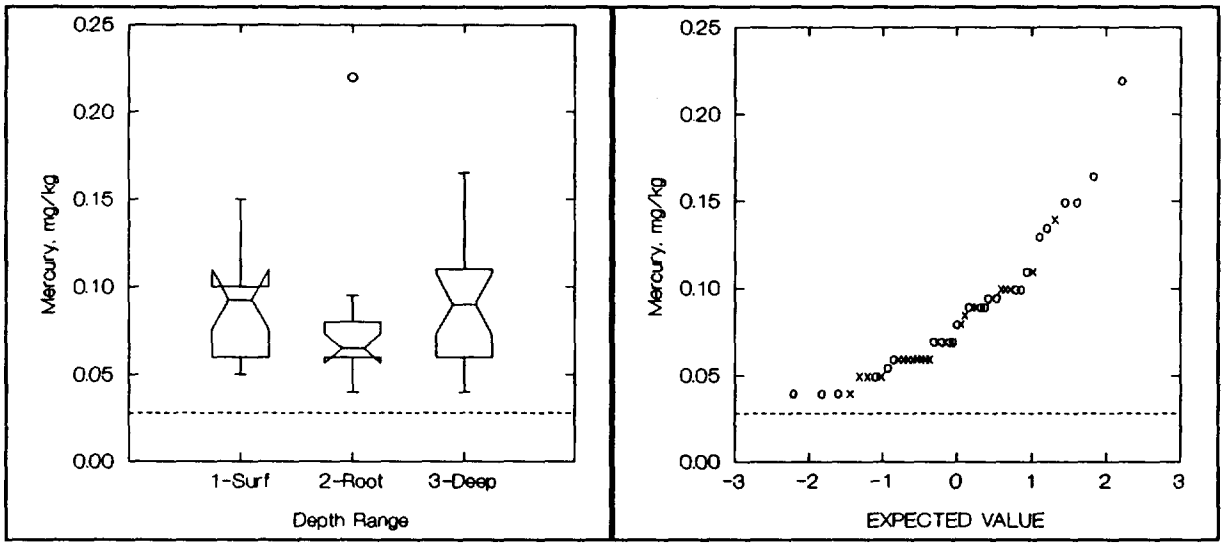


Figure 5.15. Box Plot and Probability Plot for Manganese

The manganese data do not appear to fit the normal distribution model well. The surface and root zone samples are widely spread and have many overlapping values; the curvature of the p plot could be attributed to this overlap. The distributions mix over a wide range, so no distinct kinks are apparent. Again, the deep soil samples have the most outliers.

Mercury

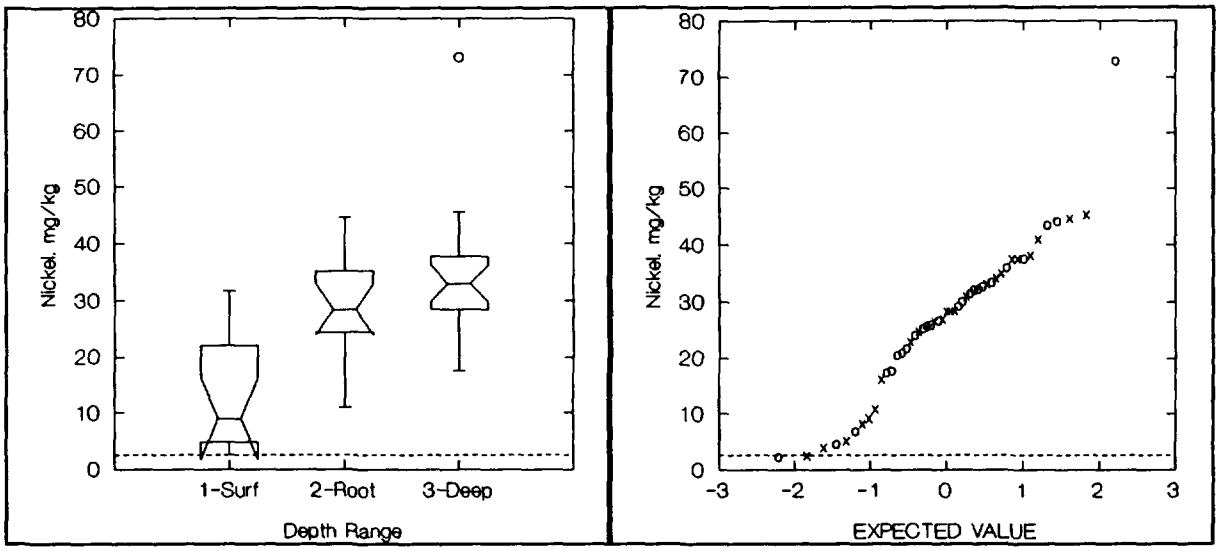


LEGEND
X = alluvial soil
O = morainal soil

Figure 5.16. Box Plot and Probability Plot for Mercury

The soil samples have similar mercury concentration ranges over depth. The concentrations of mercury in soil were the lowest of the 23 metals.

Nickel

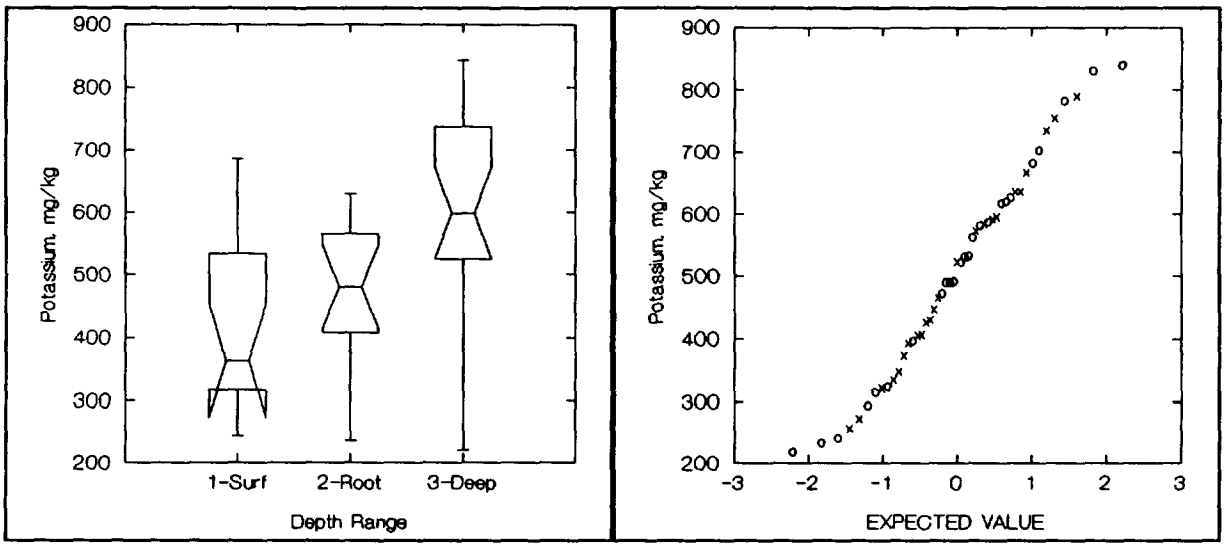


LEGEND
X = alluvial soil
O = morainal soil

Figure 5.17. Box Plot and Probability Plot for Nickel

Nickel concentrations at the surface are statistically lower than those in the root zone and deep soils. The values near the detection limit (two are non-detects) show the characteristic tailing of the p plot values. One deep soil sample has a single high outlier.

Potassium



LEGEND
X = alluvial soil
O = morainal soil

Figure 5.18. Box Plot and Probability Plot for Potassium

Potassium concentrations have similar ranges of overlapping values. The p plots reflect this overlap with a good fit to a straight line. The deep soil median is significantly higher than that for the surface soil.

Selenium

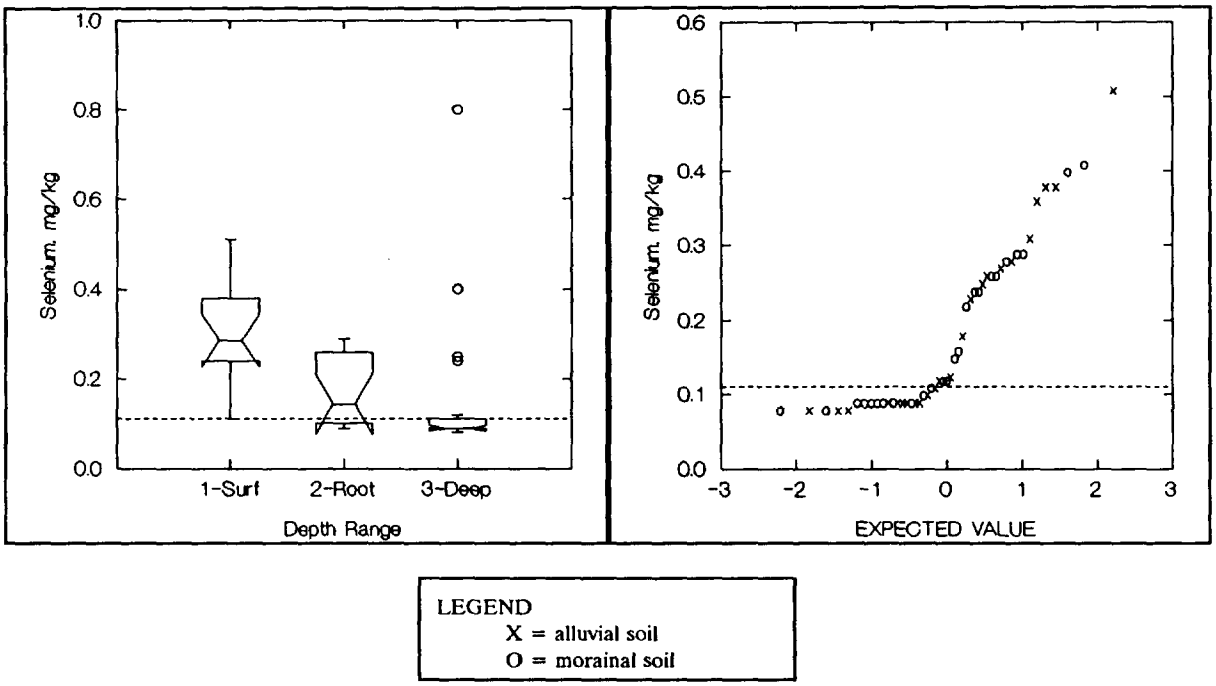


Figure 5.19. Box Plot and Probability Plot for Selenium

The selenium distributions are not symmetrical, and the p plot shows distinctly different slopes. Of 49 points, 20 were below the detection limit, which skewed the lower ends of the distributions. The deep values do not fall into the normal distribution because 16 of the 21 points were nondetects. Statistics generated for cases with such a high percentage of nondetects are not valid; therefore, the mean and standard deviation were not calculated for the concentration of selenium in deep soil.

Silver

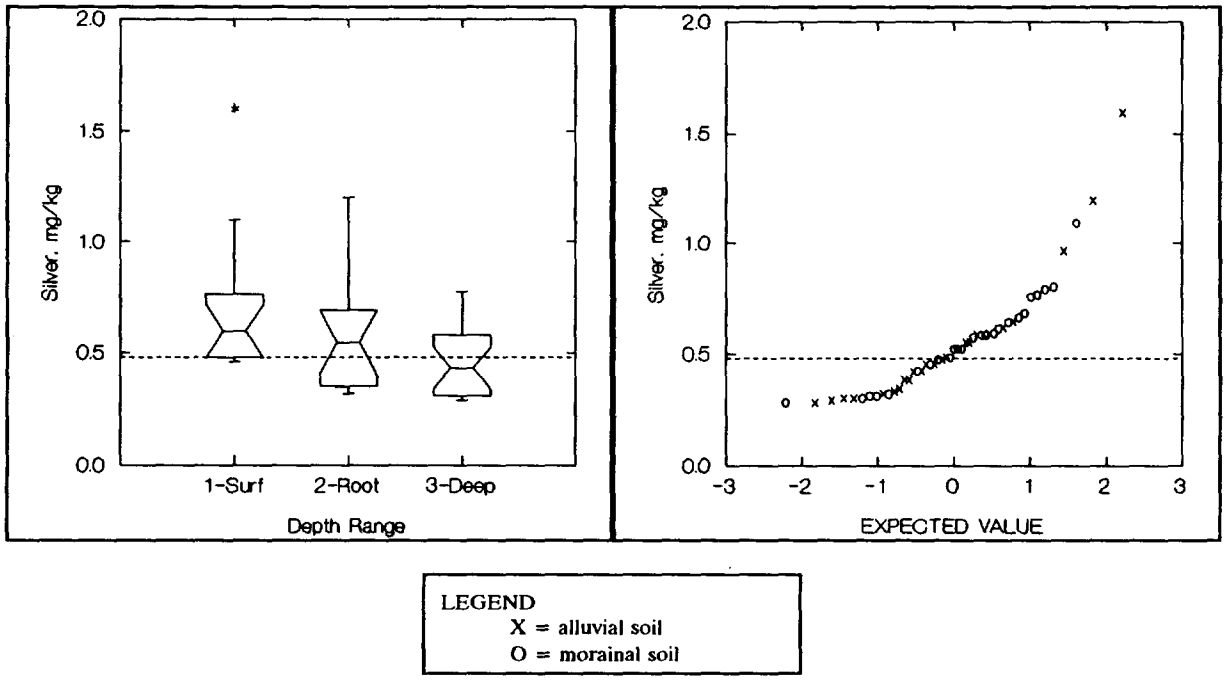
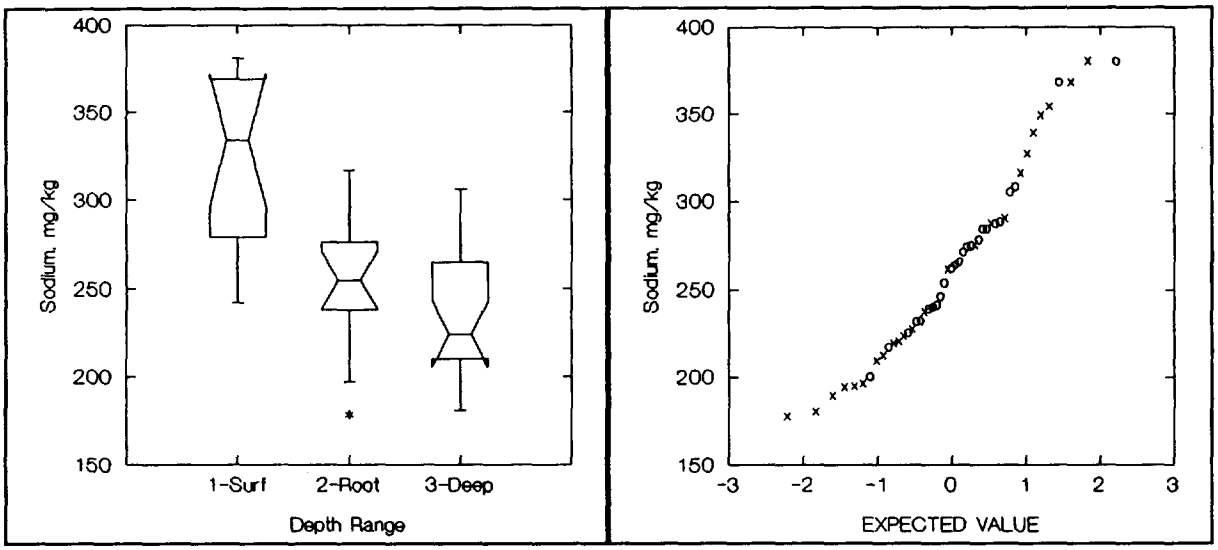


Figure 5.20. Box Plot and Probability Plot for Silver

Silver values do not vary with depth. The three depth ranges had four, five, and six nondetected concentrations; in generating statistics, they were assigned values equal to one-half the detection limit.

Sodium



LEGEND
X = alluvial soil
O = morainal soil

Figure 5.21. Box Plot and Probability Plot for Sodium

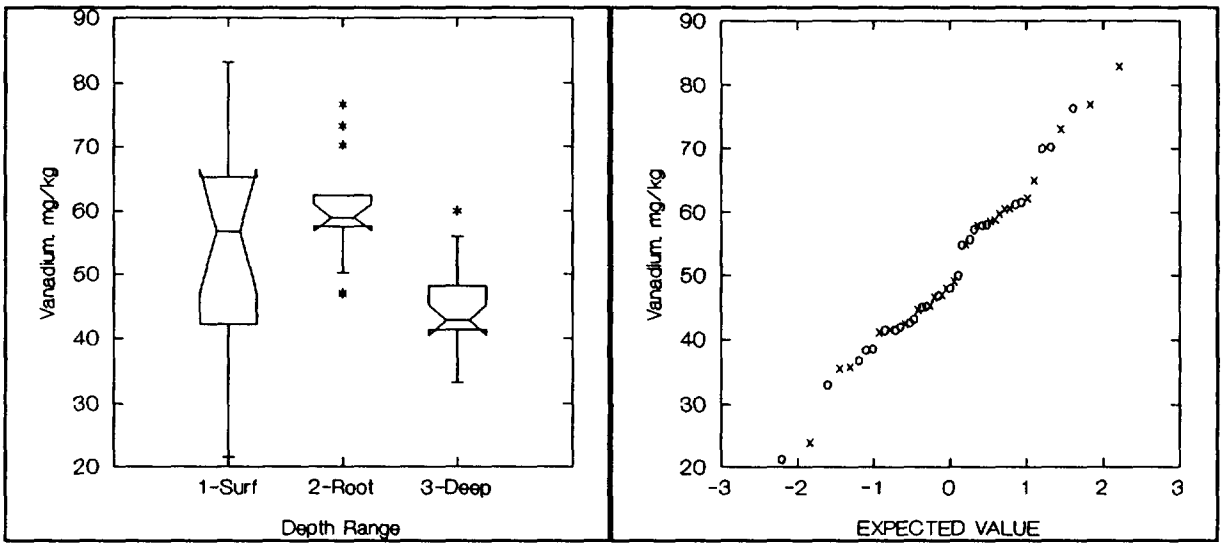
Concentrations of sodium show a statistically significant decrease with sample depth. All three depth ranges have approximately the same range.

Thallium

(No figure.)

Thallium results are similar to those for antimony. Because 48 of 49 samples were nondetects, the plots are not shown and statistical characteristics were not calculated. Sampling results indicate that approximately 98 percent of the background concentrations of thallium in soil are expected to be below the detection limit of approximately 0.27 mg/kg.

Vanadium



LEGEND
X = alluvial soil
O = morainal soil

Figure 5.22. Box Plot and Probability Plot for Vanadium

Vanadium concentrations in the surface soils have a range inclusive of concentrations at other depths. The deep soil samples have a median significantly lower than those of the surface or root zones. There were four outliers at the root zone depth.

Zinc

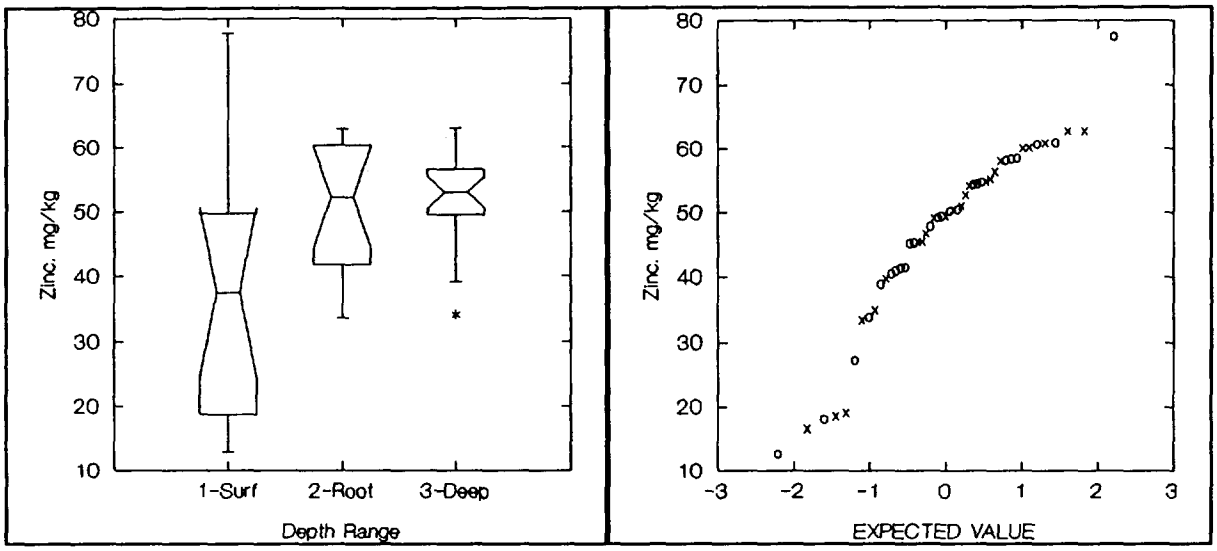


Figure 5.23. Box Plot and Probability Plot for Zinc

Surface concentrations of zinc demonstrate a range encompassing those of the deeper soils. The median zinc concentrations in the root zone and deep soils are not statistically different.

General

- Most soils had metals concentrations above the detection limit, enabling calculations of statistical characteristics.
- There was no consistent trend of metal concentrations increasing or decreasing with soil depth.
- The widest distributions were found in the surface soil samples, indicating the greatest heterogeneity. Surface soils are most exposed to disturbances and movement by wind, rain, and other forms of transport, which may redistribute concentrations.
- The highest numbers of outliers were found at the deeper levels.

Samples labeled deep were from depths of 3 to 25 feet, taken as composites over a 1 to 2 foot range. Cases in which only a single sample was taken from a given depth range or type of soil may show up as outliers. One third

of the outliers in the deep soil range were from a single boring that appears to have been an anomaly (see below).

5.4.2.3 Calculation of Statistical Characteristics

Table 5.3 lists the results of the calculations of statistical characteristics for the depth ranges of each metal. The alluvial and morainal samples have been pooled. The metals are listed in descending order of means. The last column of numbers contains a count of the number of sample results in the depth zone of each metal which exceeds the calculated 99th percentile UTL.

The definition of the 99th percentile UTL with an associated 95 percent confidence level implies that there is a 95 percent probability that 1 in 100 samples is expected to exceed this limit. Table 5.3 shows that there are five metals for which one sample exceeded the UTL. In all five cases, the value was an outlier on the box plots. In addition, all cases were from the same sample; the sample from the deep section of Boring 14. The samples above and below it had normal concentrations. This single sample is an outlier; either the sample contained elevated concentrations of metals, or the sample preparation gave skewed results. Outliers may occur since the model for calculating the statistical characteristics assumes the data are normally distributed, although this is only an approximation of real data.

The 99th percentile UTL was chosen because nearly all of the samples taken are expected to represent true background soil metals values. The trade-off in selecting a high percentile as an indicator is that the higher the UTL, the larger the chance of missing a case of elevated metal concentration. If contaminated soil contains metals values only slightly above background values, the distribution of contaminated levels may overlap those of the background values, causing the identification of a contaminated area to be missed. In most cases, metals concentrations that contribute unacceptable levels of risk to human health or the environment are expected to be several times larger than background concentrations; however, at Elmendorf AFB the UTL of background metals exceeds the 10^{-6} risk-based soil concentrations for arsenic and beryllium. These cases should be discussed in associated risk assessment reports.

5.5 USE OF BACKGROUND DATA IN OU INVESTIGATIONS

The statistical analysis of soil background metals concentrations was completed to allow differentiation between background levels and primary source contaminant levels. The ranges of background concentrations and types of distributions have been estimated for 23 inorganic constituents in soil. Sampling locations were selected to be representative of soil found at the operable units, and to detect differences between landforms. Since no statistically significant differences between alluvial and morainal soils were detected, the statistical results are representative of soil conditions at the OUs, and provide a basis for comparison with operable unit metals data. The use of the data for future risk assessments depends on the OU data available.

The statistics used to compare OU onsite soil data with background metals concentrations in soil will depend on whether single points or groups of data are available for an area. If single points are available, they may be compared to the 99th percentile UTL with an associ-

TABLE 5.3 Results of Statistical Analysis of Metals Content of Soil Borings										
Metal	Depth Range	Concentrations (mg/kg soil)				Number of Cases	Number of Non-Detects	Upper Tolerance Limit[b] (mg/kg)	Upper 99 Percent Confidence Limit for the Mean (mg/kg)	Number of Points Exceeding the Upper Tolerance Limit
		Min	Mean[a]	Max	Std Dev[a]					
Aluminum	Surface	4,750	15,094	25,000	5,813	14	0	35,627	19,211	0
	Root Zone	14,850	19,700	23,800	2,391	14	0	31,655	21,393	0
	Deep	9,830	12,878	16,600	1,606	21	0	18,013	13,764	0
Antimony	Surface	1.45	1.83	3.40	N/A	14	13	N/A	N/A	N/A
	Root Zone	1.20	1.40	1.60	N/A	14	14	N/A	N/A	N/A
	Deep	1.10	1.29	3.10	N/A	21	20	N/A	N/A	N/A
Arsenic	Surface	3.90	7.20	13.10	2.54	14	0	16.18	9.00	0
	Root Zone	4.70	6.87	9.60	1.28	14	0	11.40	7.78	0
	Deep	3.50	5.46	8.35	1.18	21	0	9.24	6.12	0
Barium	Surface	77.3	113.8	154.0	24.9	14	0	201.7	131.4	0
	Root Zone	43.4	103.3	171.0	31.4	14	0	214.3	125.5	0
	Deep	37.1	54.5	82.5	12.7	21	0	95.0	61.5	0
Beryllium	Surface	0.12	0.37	0.62	0.15	14	3	0.91	0.47	0
	Root Zone	0.29	0.41	0.55	0.08	14	0	0.70	0.46	0
	Deep	0.09	0.28	0.48	0.11	21	3	0.63	0.34	0
Cadmium	Surface	0.17	1.07	1.95	0.55	14	2	3.01	1.46	0
	Root Zone	0.93	1.62	1.90	0.26	14	0	2.53	1.80	0
	Deep	0.96	1.63	2.70	0.44	21	0	3.03	1.87	0

TABLE 5.3 (Cont'd)

Metal	Depth Range	Concentrations (mg/kg soil)				Number of Cases	Number of Non-Detects	Upper Tolerance Limit[b] (mg/kg)	Upper 99 Percent Confidence Limit for the Mean (mg/kg)	Number of Points Exceeding the Upper Tolerance Limit
		Min	Mean[a]	Max	Std Dev[a]					
Calcium	Surface	1,330	2,803	8,210	1,721	14	0	8,881	4,021	0
	Root Zone	1,730	3,283	7,530	1,474	14	0	8,490	4,327	0
	Deep	2,980	5,312	10,800	1,503	20	0	10,169	6,165	1
Chromium	Surface	9.6	19.8	34.3	8.1	14	0	48.4	25.5	0
	Root Zone	19.0	31.8	45.3	6.4	14	0	54.4	36.3	0
	Deep	18.5	31.6	80.9	13.9	21	0	76.1	39.3	1
Cobalt	Surface	1.3	7.1	12.6	3.9	14	2	20.7	9.81	0
	Root Zone	7.2	12.3	14.3	2.2	14	0	20.2	13.8	0
	Deep	7.2	11.1	16.6	2.0	21	0	17.5	12.2	0
Copper	Surface	7.8	14.8	24.8	4.9	14	0	32.2	18.3	0
	Root Zone	14.0	20.8	28.3	4.0	14	0	34.7	23.6	0
	Deep	14.5	29.5	59.9	9.3	21	0	59.2	34.7	1
Iron	Surface	8,970	22,359	32,700	7,609	14	0	49,237	27,748	0
	Root Zone	23,450	28,082	32,000	3,039	14	0	38,818	30,235	0
	Deep	18,500	24,581	38,000	4,262	21	0	38,210	26,932	0
Lead	Surface	4.30	6.93	11.10	1.80	14	0	13.3	8.2	0
	Root Zone	4.10	5.65	7.00	0.89	14	0	8.78	6.28	0
	Deep	3.00	5.30	9.10	1.48	21	0	10.0	6.12	0

TABLE 5.3 (Cont'd)

Metal	Depth Range	Concentrations (mg/kg soil)				Number of Cases	Number of Non-Detects	Upper Tolerance Limit[b] (mg/kg)	Upper 99 Percent Confidence Limit for the Mean (mg/kg)	Number of Points Exceeding the Upper Tolerance Limit
		Min	Mean[a]	Max	Std Dev[a]					
Magnesium	Surface	769	2,821	6610	2,133	14	0	10,356	4,332	0
	Root Zone	2,160	6,371	10,100	1,929	14	0	13,183	7,737	0
	Deep	3,690	7,895	14,800	2,112	21	0	14,648	9,060	1
Manganese	Surface	67.8	319.9	738.0	197.0	14	0	1,015.7	459.4	0
	Root Zone	193.5	489.4	742.5	136.2	14	0	970.5	585.8	0
	Deep	375.0	518.3	640.0	58.6	21	0	705.8	550.6	0
Mercury	Surface	0.050	0.090	0.150	0.029	14	0	0.19	0.11	0
	Root Zone	0.040	0.075	0.220	0.044	14	0	0.23	0.11	0
	Deep	0.040	0.088	0.165	0.036	21	0	0.20	0.11	0
Nickel	Surface	1.3	13.0	31.7	10.1	14	2	48.5	20.1	0
	Root Zone	11.0	29.6	44.5	8.8	14	0	60.6	35.8	0
	Deep	17.6	34.6	73.1	11.4	21	0	71.1	40.9	1
Potassium	Surface	244	406	685	144	14	0	915.7	508.5	0
	Root Zone	236	466	630	119	14	0	887.1	550.3	0
	Deep	221	612	842	154	21	0	1,105.1	697.3	0
Selenium	Surface	0.055	0.295	0.510	0.113	14	1	0.69	0.37	0
	Root Zone	0.045	0.161	0.290	0.089	14	3	0.47	0.22	0
	Deep	0.040	0.104	0.400	0.116	21	16	N/A	N/A	N/A

TABLE 5.3 (Cont'd)

Metal	Depth Range	Concentrations (mg/kg soil)				Number of Cases	Number of Non-Detects	Upper Tolerance Limit[b] (mg/kg)	Upper 99 Percent Confidence Limit for the Mean (mg/kg)	Number of Points Exceeding the Upper Tolerance Limit
		Min	Mean[a]	Max	Std Dev[a]					
Silver	Surface	0.23	0.63	1.60	0.39	14	4	2.00	0.91	0
	Root Zone	0.16	0.51	1.20	0.32	14	5	1.62	0.73	0
	Deep	0.15	0.41	0.78	0.20	21	6	1.05	0.52	0
Sodium	Surface	242.0	327.8	381.0	44.5	11	0	497.8	364.9	0
	Root Zone	178.5	251.2	317.0	40.5	11	0	406.1	285.0	0
	Deep	181.0	234.8	306.0	38.3	17	0	363.1	258.7	0
Thallium	Surface	0.105	0.133	0.280	N/A	14	13	N/A	N/A	N/A
	Root Zone	0.085	0.101	0.115	N/A	14	14	N/A	N/A	N/A
	Deep	0.080	0.092	0.190	N/A	21	20	N/A	N/A	N/A
Vanadium	Surface	21.5	53.4	83.1	18.5	14	0	118.6	66.5	0
	Root Zone	46.9	60.0	76.6	8.8	14	0	91.3	66.3	0
	Deep	33.2	44.3	59.9	6.7	21	0	65.8	48.0	0
Zinc	Surface	12.9	36.7	77.7	18.7	14	0	102.9	49.9	0
	Root Zone	33.7	51.3	62.9	9.5	14	0	84.8	58.0	0
	Deep	34.1	51.7	63.0	7.5	21	0	75.7	55.9	0

[a]Assumes non-detect values are equal to one-half the detection limit.
[b]Upper tolerance limit for the 99th percentile with a 95 percent confidence level.

ated 95 percent confidence level that has been generated for the same metal and depth range. If the onsite value is greater than the UTL, it is extremely unlikely that it is part of the background population.

If multiple onsite sample points are available, then the 99 percent confidence limit (CL) for the mean may be used. A confidence interval (CI) for the onsite data would be calculated and compared to the CL for the background data; if the lower CL of the site data is above the upper CL for the background data, then the two confidence intervals about the mean would have no overlap and the populations could be assumed statistically different. This would indicate that the metals concentrations for the onsite area were due to a source other than background sources.

It is important to note that the calculation of statistics for onsite data should include the same processes followed for the background data. Both the number and type of distributions represented in a group of samples must be determined before a mean and standard deviation are calculated. The equations for these statistics are only meaningful and accurate if the data belong to a single population that is approximately normally distributed. Data exploration tools such as box plots and probability plots may be used to assess the distributions of new data.

The above methods for comparing onsite data to background soil concentration levels are general approaches. The exact steps to be followed are case-specific; decisions about the number and locations of data points to be grouped are dependent on factors such as the activities that took place on the site, the number of samples collected, and the relative locations of elevated concentrations. For instance, samples that include high levels of a metal and are evenly distributed across a site should be grouped differently than a case in which all high level data are concentrated in one area. For the same reasons, the response to an exceedence of a single point or a group of points is also dependent on the specific data. The methods of comparison described in this report may be used as a screening procedure for determining if additional investigation of an area is warranted.

Based on the results, when performing risk assessments associated with operable units, these guidelines should be considered:

- Samples should be collected from the soil depth range that is the potential source of metals for that particular route of exposure; metals concentrations varied with sample depth.
- Samples from both alluvial and morainal formations may be compared with the same background results.
- The certainty associated with detecting a difference between background and elevated levels increases with the number of samples collected.
- Moisture content of the samples can affect detection limits on a dry-weight basis, and soil metals concentrations on a basis other than dry weight. It will be important to be consistent in measurement and reporting units.

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6.0 REFERENCES

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UNITED STATES AIR FORCE
ELMENDORF AIR FORCE BASE, ALASKA

ENVIRONMENTAL RESTORATION PROGRAM

BASEWIDE BACKGROUND SAMPLING REPORT
VOLUME 2
APPENDIX A

JANUARY 1993

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APPENDIX A
EXISTING DATA
COMPILATION REPORT

Appendix A

Existing Data Compilation Report

EXISTING DATA COMPILATION REPORT

1.0 INTRODUCTION

This report presents the results of the Basewide Background Sampling Investigation Existing Data Compilation task. The objective of the Existing Data Compilation task was to gather contaminant data from groundwater, surface water, and sediment samples collected from Elmendorf AFB and vicinity. These data were gathered so that existing data could be compiled into a consistent format and used to compare with data gathered during other ongoing or future investigations at Elmendorf AFB.

The following sections and appendixes present the results of the existing data compilation task:

- 1.0 Introduction
- 2.0 Purpose and Scope
- 3.0 Data Compilation
- 4.0 Analysis of Trends
- Attachments
  - Attachment A U.S. Geologic Survey Data
  - Attachment B Black & Veatch Data
  - Attachment C Bioenvironmental Engineering Services Group Data

2.0 PURPOSE AND SCOPE

The purpose of this task was to compile existing data for the concentrations of organic and inorganic constituents in environmental samples collected from Elmendorf AFB, or from the Anchorage bowl in the vicinity of Elmendorf AFB. Previous reports from investigations contain concentration data for groundwater, surface water, and sediment on the base. These data were compiled and entered into a common database (using Paradox® 3.5) to aid in the assessment of background concentrations of contaminants of concern at Elmendorf.

This task involved compiling environmental data from samples collected by the U.S. Geologic Survey (USGS), Black & Veatch (B&V), and the USAF Bioenvironmental Engineering Services Group (BESG), and presenting these data in a consistent format for use in other current and future investigations at Elmendorf AFB. The data were entered into Paradox® 3.5 in IRPIMS format, and arranged into tables according to media, chemical analyses, and sampling location. The database was also to identify any noticeable trends of increasing or decreasing concentration in the media sampled.

3.0 DATA COMPILATION

3.1. Methods

Three sources of existing data were reviewed and compiled, according to procedures described in the following sections.

The procedures for compiling existing data were to:

- Review documents to determine which data were within the scope of this task.
- Establish a format in which to present the information.
- Enter the data using version 3.5 of Paradox®, which is compatible with IRPIMS.
- Generate tables for the final report.

The resulting tables are presented in Attachments A, B, and C.

Limitations on the use of certain data presented in the tables are as follows:

USGS Data

- Analytical methods were not cited in the USGS reports from which data were obtained (USGS 1988, 1989, 1991).
- Quality control test results were not available for the USGS data set.

Black & Veatch Data

- Quality control test results were available for only a part of the data set in the RI/FS report.
- Test methods, detection limits, and reporting units were difficult to extract from the report due to inconsistencies between the text and tables, and the presence of obvious errors.

Bioenvironmental Engineering Data

- In some instances, test methods were not clear. For example, naphthalene was reported as a volatile organic, but is typically tested as a semivolatile constituent.
- Quality control data were not available for the data set.

The data tables in Attachments A, B, and C may be used for qualitative information, but may not be suitable for EPA Level III purposes (such as risk assessments) due to the absence of quality control test results and data validation.

3.2. Data Tables and Figures

The USGS, B&V, and BESG data summary tables are contained in Appendixes A, B, and C, respectively. The USGS and BESG sampling locations are shown on Figures A.1 and A.2, respectively.

4.0 ANALYSIS OF TRENDS

4.1. Methods

The analysis of trends was completed to combine the existing data and analyze it for consistent increases or decreases in the individual parameters measured at each location. Because the sources of existing data did not necessarily include methods of sampling and analysis information and QA/QC data, statistical analyses were not performed. The data do provide qualitative information about general increases or decreases within the parameters measured.

Because the number of individual data entries from existing reports number in the tens of thousands, no trend information could be obtained by a visual inspection of the data tables. Instead, database software was used to select certain data sets for inspection. The procedures were:

- All nondetect points were deleted. This accounted for more than 90 percent of the data.
- All records lacking a sampling location were deleted.
- A trend was defined as at least three points in which values consistently increased or decreased; cases including only one or two sampling dates were deleted.
- So that a single location, type of sample, and parameter were considered at a time, the data were sorted by
  - location
  - type of sample (surface water, groundwater, or soil)
  - parameter
  - date
- The data were visually inspected for three or more consecutive increases or decreases.

4.2. Results

The number of data points remaining after the deletions described in Section 4.1 were approximately 600. Twenty-three locations and 34 parameters were represented. Of the 600 points, only 27 were from sources other than the Bioenvironmental Services source. Possible trends are summarized below.

BESG Data

Potable water from Well 27 (location 68-PG-027) showed two possible trends. Iron increased from 103 µg/l to 148 µg/l from 1984 to 1990. There were five data points. Potassium had three points that decreased from 2.1 to 1.8 µg/l during the same time period.

1,1,1-trichloroethane in potable water from Well 1 increased consistently over four data points from May 1989 to July 1990, from 2.4 to 8.4 µg/l.

Iron from a surface water sample of Ship Creek II (location 687-NS-405) had three data points that decreased from 491 to 160 µg/l. The samples were taken from October 1989 to October 1991.

Iron increased in samples taken from January 1985 to November 1985 in Six Mile Lake outfall, location 687-NS-404. Values increased from 104 to 1334 µg/l.

Other Sources

A possible trend was noted when groundwater data from Dames and Moore and Black & Veatch were combined. Petroleum hydrocarbons increased from 12 mg/l in July 1987 to 64 mg/l in August 1988; however, the 12 mg/l measurement was one of two analyses performed on the same date. The second result was 61 mg/l. The trend without this data point was only from 61 to 64 mg/l.

ATTACHMENT A
US GEOLOGICAL SURVEY DATA

Attachment A

U.S. Geological Survey Data

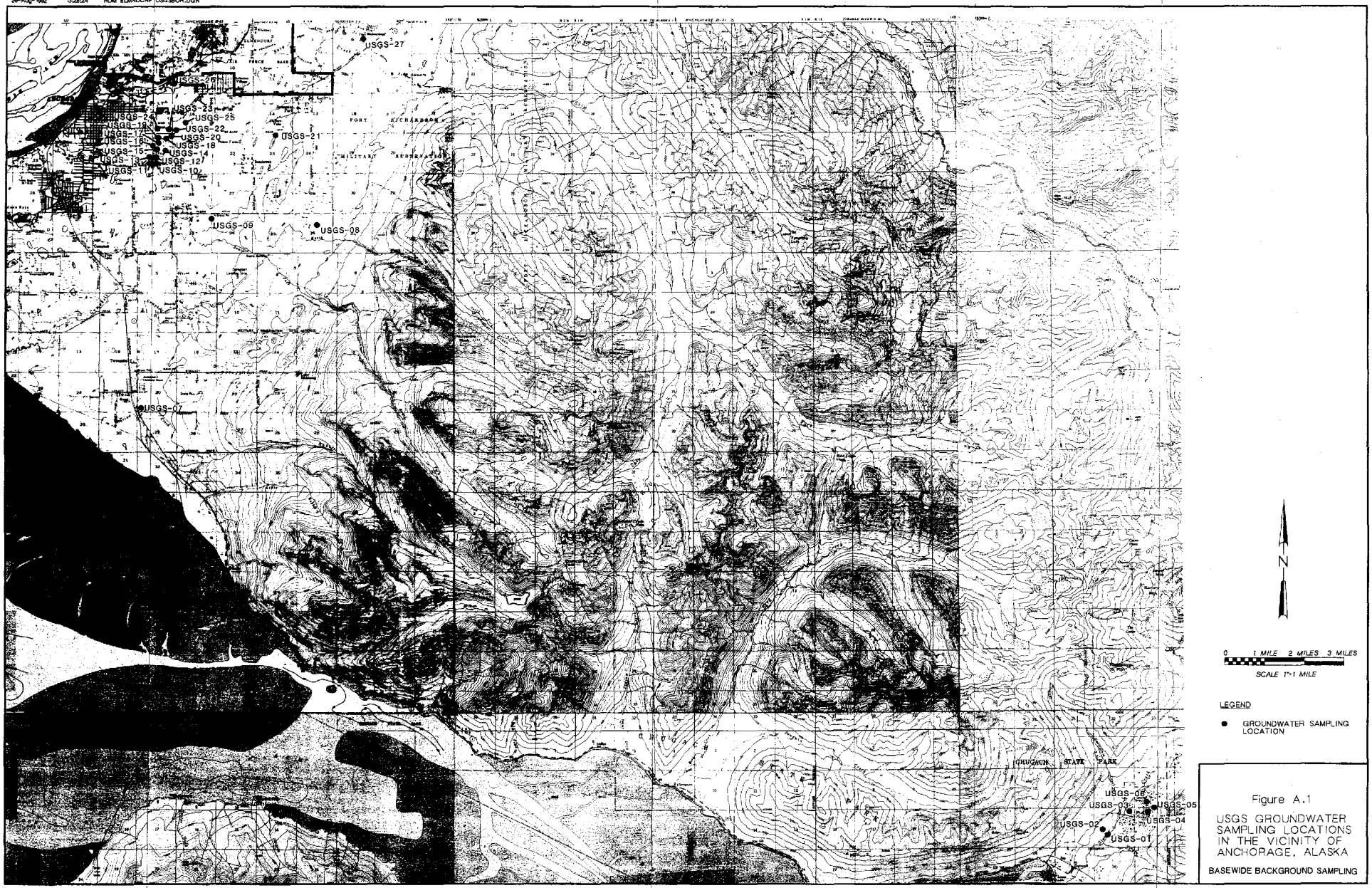


Figure A.1

USGS GROUNDWATER SAMPLING LOCATIONS IN THE VICINITY OF ANCHORAGE, ALASKA

BASEWIDE BACKGROUND SAMPLING

METALS IN GROUNDWATER

Dissolved Metals in Groundwater
Anchorage Bowl
US Geological Service

USGS Location ID	SA01000217CBDD1010	SB01200320CCDA1026	SB01300336ADDA1001	SB01300320ABDD1033	
Location ID	605716149084001	610638149512201	611033149430101	611223149503901	
CH2M Hill Site ID	USGS-01	USGS-07	USGS-08	USGS-14	
Sample Date	861015	890905	890905	851126	860826
Units	mg/l	mg/l	mg/l	mg/l	mg/l
SILVER	NR	< .001	< .001	NR	NR
ALUMINUM	NR	< .01	< .01	NR	NR
ARSENIC	NR	< .001	< .001	NR	NR
BARIUM	NR	< .002	.008	NR	NR
BERYLLIUM	NR	< .0005	< .0005	NR	NR
CADMIUM	NR	< .001	< .001	NR	NR
CHROMIUM	NR	< .001	< .001	NR	NR
COBALT	NR	< .003	< .003	NR	NR
COPPER	NR	< .001	< .001	NR	NR
IRON	.016	.032	.005	11	11
MERCURY	NR	< .0001	< .0001	NR	NR
LITHIUM	NR	< .004	< .004	NR	NR
MAGNESIUM	2.5	2.3	4.6	NR	NR
MANGANESE	.002	.007	< .001	2.9	3
MOLYBDENUM	NR	< .01	< .01	NR	NR
NICKEL	NR	< .001	< .001	NR	NR
LEAD	NR	< .001	< .001	NR	NR
ANTIMONY	NR	NR	NR	NR	NR
SELENIUM	NR	< .001	< .001	NR	NR
STRONTIUM	NR	.057	.17	NR	NR
THALLIUM	NR	NR	NR	NR	NR
VANADIUM	NR	< .006	< .006	NR	NR
ZINC	NR	.003	.004	NR	NR

< = less than detection limits
NR = Not Reported

Dissolved Metals in Groundwater
Anchorage Bowl
US Geological Service

USGS Location ID	Not Available	SB01300316CCBC3006				SB01300309BCCD1006
Location ID	611235149454001	611243149500701				611355149500201
CH2M Hill Site ID	USGS-21	USGS-22				USGS-26
Sample Date	900821	851125	860825	851125	860825	900822
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
SILVER	< .001	NR	NR	NR	NR	< .001
ALUMINUM	< .01	NR	NR	NR	NR	NR
ARSENIC	.008	NR	NR	NR	NR	< .001
BARIUM	.087	NR	NR	NR	NR	.01
BERYLLIUM	< .0005	NR	NR	NR	NR	< .0005
CADMIUM	< .001	NR	NR	NR	NR	< .001
CHROMIUM	< .001	NR	NR	NR	NR	< .001
COBALT	< .003	NR	NR	NR	NR	< .003
COPPER	.017	NR	NR	NR	NR	.001
IRON	.081	1.1	.7	93	8.3	.041
MERCURY	< .0001	NR	NR	NR	NR	< .0001
LITHIUM	.007	NR	NR	NR	NR	.004
MAGNESIUM	12	NR	NR	NR	NR	6.3
MANGANESE	.17	.21	.21	9.2	5.9	.03
MOLYBDENUM	< .01	NR	NR	NR	NR	< .01
NICKEL	.001	NR	NR	NR	NR	.001
LEAD	< .001	NR	NR	NR	NR	.003
ANTIMONY	NR	NR	NR	NR	NR	NR
SELENIUM	< .001	NR	NR	NR	NR	< .001
STRONTIUM	.42	NR	NR	NR	NR	.19
THALLIUM	NR	NR	NR	NR	NR	NR
VANADIUM	< .006	NR	NR	NR	NR	< .006
ZINC	.006	NR	NR	NR	NR	.004

< = less than detection limits
NR = Not Reported

Dissolved Metals in Groundwater
Anchorage Bowl
US Geological Service

USGS Location ID	SB01300206DBBA1004		Not Available	Not Available	Not Available	
Location ID	611444149415401		605750149063801	611235149454001	611243149501401	
CH2M Hill Site ID	USGS-27		USGS-05	USGS-21	USGS-23	
Sample Date	890905	900822	850613	900821	851127	860827
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
SILVER	< .001	< .001	NR	< .001	NR	NR
ALUMINUM	< .01	< .01	NR	< .01	NR	NR
ARSENIC	< .001	< .001	NR	.008	NR	NR
BARIUM	.005	.006	NR	.087	NR	NR
BERYLLIUM	< .0005	< .0005	NR	< .0005	NR	NR
CADMIUM	< .001	< .001	NR	< .001	NR	NR
CHROMIUM	< .001	< .001	NR	< .001	NR	NR
COBALT	< .003	< .003	NR	< .003	NR	NR
COPPER	< .001	.003	NR	.017	NR	NR
IRON	.078	.12	2.9	.081	.39	1.2
MERCURY	< .0001	< .0001	NR	< .0001	NR	NR
LITHIUM	< .004	.005	NR	.007	NR	NR
MAGNESIUM	5.4	5.2	NR	NR	NR	NR
MANGANESE	.003	.005	1.6	.17	.096	2.7
MOLYBDENUM	< .01	< .01	NR	< .01	NR	NR
NICKEL	< .001	.001	NR	.001	NR	NR
LEAD	< .001	.001	NR	< .001	NR	NR
ANTIMONY	NR	NR	NR	NR	NR	NR
SELENIUM	< .001	< .001	NR	< .001	NR	NR
STRONTIUM	.23	.23	NR	.42	NR	NR
THALLIUM	NR	NR	NR	NR	NR	NR
VANADIUM	< .006	< .006	NR	< .006	NR	NR
ZINC	.007	.004	NR	.006	NR	NR

< = less than detection limits
NR = Not Reported

Dissolved Metals in Groundwater
Anchorage Bowl
US Geological Service

USGS Location ID	Not Available		SA01000209CBDD1002	SA01000216BABA1005	SA01000217AABC1005
Location ID	611243149504801		605809149065601	605749149063901	605747149074201
CH2M Hill Site ID	USGS-24		USGS-06	USGS-04	USGS-03
Sample Date	851127	860827	890824	850613	850611
Units	mg/l	mg/l	mg/l	mg/l	mg/l
SILVER	NR	NR	< .001	NR	NR
ALUMINUM	NR	NR	< .01	NR	NR
ARSENIC	NR	NR	< .001	NR	NR
BARIUM	NR	NR	.007	NR	NR
BERYLLIUM	NR	NR	< .0005	NR	NR
CADMIUM	NR	NR	< .001	NR	NR
CHROMIUM	NR	NR	< .001	NR	NR
COBALT	NR	NR	< .003	NR	NR
COPPER	NR	NR	< .001	NR	NR
IRON	170	130	1.7	.32	< .003
MERCURY	NR	NR	< .0001	NR	NR
LITHIUM	NR	NR	< .004	NR	NR
MAGNESIUM	NR	NR	NR	NR	NR
MANGANESE	76	56	.091	2.4	< .001
MOLYBDENUM	NR	NR	< .01	NR	NR
NICKEL	NR	NR	< .001	NR	NR
LEAD	NR	NR	< .001	NR	NR
ANTIMONY	NR	NR	NR	NR	NR
SELENIUM	NR	NR	< .001	NR	NR
STRONTIUM	NR	NR	.14	NR	NR
THALLIUM	NR	NR	NR	NR	NR
VANADIUM	NR	NR	< .006	NR	NR
ZINC	NR	NR	.007	NR	NR

< = less than detection limits
NR = Not Reported

Dissolved Metals in Groundwater
Anchorage Bowl
US Geological Service

USGS Location ID	SA01000217CBDD1010	SA01000217CBDD2010	SB01200320CCDA1026	SB01300206DBBA1004
Location ID	605716149084001	605717149084101	610638149512201	611444149415401
CH2M Hill Site ID	USGS-01	USGS-02	USGS-07	USGS-27
Sample Date	861015	900824	890905	890905
Units	mg/l	mg/l	mg/l	mg/l
SILVER	NR	< .001	< .001	< .001
ALUMINUM	NR	.04	< .01	< .01
ARSENIC	NR	.005	< .001	< .001
BARIUM	NR	.004	< .002	.005
BERYLLIUM	NR	< .0005	< .0005	< .0005
CADMIUM	NR	< .001	< .001	< .001
CHROMIUM	NR	< .001	< .001	< .001
COBALT	NR	< .003	< .003	< .003
COPPER	NR	.001	< .001	< .001
IRON	.016	.098	.032	.078
MERCURY	NR	< .0001	< .0001	< .0001
LITHIUM	NR	.005	< .004	< .004
MAGNESIUM	NR	NR	NR	NR
MANGANESE	.002	.12	.007	.003
MOLYBDENUM	NR	< .01	< .01	< .01
NICKEL	NR	< .001	< .001	< .001
LEAD	NR	< .001	< .001	< .001
ANTIMONY	NR	NR	NR	NR
SELENIUM	NR	< .001	< .001	< .001
STRONTIUM	NR	.18	.057	.23
THALLIUM	NR	NR	NR	NR
VANADIUM	NR	< .006	< .006	< .006
ZINC	NR	.006	.003	.007

< = less than detection limits
NR = Not Reported

Dissolved Metals in Groundwater
Anchorage Bowl
US Geological Service

USGS Location ID	SB01300206DBBA1004	SB01300309BCCD1006	SB01300316CAAC2007	SB01300316CAAC2007
Location ID	611444149415401	611355149500201	611259149492601	611259149492601
CH2M Hill Site ID	USGS-27	USGS-26	USGS-25	USGS-25
Sample Date	900822	900822	851127	860826
Units	mg/l	mg/l	mg/l	mg/l
SILVER	< .001	< .001	NR	NR
ALUMINUM	< .01	.03	NR	NR
ARSENIC	< .001	< .001	NR	NR
BARIUM	.006	.01	NR	NR
BERYLLIUM	< .0005	< .0005	NR	NR
CADMIUM	< .001	< .001	NR	NR
CHROMIUM	< .001	< .001	NR	NR
COBALT	< .003	< .003	NR	NR
COPPER	.003	.001	NR	NR
IRON	.12	.041	1.2	2.2
MERCURY	< .0001	< .0001	NR	NR
LITHIUM	.005	.004	NR	NR
MAGNESIUM	NR	NR	NR	NR
MANGANESE	.005	.03	.57	.48
MOLYBDENUM	< .01	< .01	NR	NR
NICKEL	.001	.001	NR	NR
LEAD	.001	.003	NR	NR
ANTIMONY	NR	NR	NR	NR
SELENIUM	< .001	< .001	NR	NR
STRONTIUM	.23	.19	NR	NR
THALLIUM	NR	NR	NR	NR
VANADIUM	< .006	< .006	NR	NR
ZINC	.004	.004	NR	NR

< = less than detection limits
NR = Not Reported

Dissolved Metals in Groundwater
Anchorage Bowl
US Geological Service

USGS Location ID	SB01300316CCBC3006	SB01300316CCBC3006	SB01300320AADA1003	SB01300320AADA1003
Location ID	611243149500701	611243149500701	611229149501301	611229149501301
CH2M Hill Site ID	USGS-22	USGS-22	USGS-20	USGS-20
Sample Date	851125	860825	851127	860827
Units	mg/l	mg/l	mg/l	mg/l
SILVER	NR	NR	NR	NR
ALUMINUM	NR	NR	NR	NR
ARSENIC	NR	NR	NR	NR
BARIUM	NR	NR	NR	NR
BERYLLIUM	NR	NR	NR	NR
CADMIUM	NR	NR	NR	NR
CHROMIUM	NR	NR	NR	NR
COBALT	NR	NR	NR	NR
COPPER	NR	NR	NR	NR
IRON	.89	1	.049	.09
MERCURY	NR	NR	NR	NR
LITHIUM	NR	NR	NR	NR
MAGNESIUM	NR	NR	NR	NR
MANGANESE	.23	.23	.21	.13
MOLYBDENUM	NR	NR	NR	NR
NICKEL	NR	NR	NR	NR
LEAD	NR	NR	NR	NR
ANTIMONY	NR	NR	NR	NR
SELENIUM	NR	NR	NR	NR
STRONTIUM	NR	NR	NR	NR
THALLIUM	NR	NR	NR	NR
VANADIUM	NR	NR	NR	NR
ZINC	NR	NR	NR	NR

< = less than detection limits
NR = Not Reported

Dissolved Metals in Groundwater
Anchorage Bowl
US Geological Service

USGS Location ID	SB01300320ABCD1053	SB01300320ABDA1051	SB01300320ABDC1052	SB01300320ABDD1033	
Location ID	611228149505401	611228149503901	611227149504501	611223149503901	
CH2M Hill Site ID	USGS-19	USGS-18	USGS-17	USGS-14	
Sample Date	860903	860903	860903	851126	851126
Units	mg/l	mg/l	mg/l	mg/l	mg/l
SILVER	NR	NR	NR	NR	NR
ALUMINUM	NR	NR	NR	NR	NR
ARSENIC	NR	NR	NR	NR	NR
BARIUM	NR	NR	NR	NR	NR
BERYLLIUM	NR	NR	NR	NR	NR
CADMIUM	NR	NR	NR	NR	NR
CHROMIUM	NR	NR	NR	NR	NR
COBALT	NR	NR	NR	NR	NR
COPPER	NR	NR	NR	NR	NR
IRON	23	18	73	.059	.067
MERCURY	NR	NR	NR	NR	NR
LITHIUM	NR	NR	NR	NR	NR
MAGNESIUM	NR	NR	NR	NR	NR
MANGANESE	1.2	1.3	4.4	.13	.13
MOLYBDENUM	NR	NR	NR	NR	NR
NICKEL	NR	NR	NR	NR	NR
LEAD	NR	NR	NR	NR	NR
ANTIMONY	NR	NR	NR	NR	NR
SELENIUM	NR	NR	NR	NR	NR
STRONTIUM	NR	NR	NR	NR	NR
THALLIUM	NR	NR	NR	NR	NR
VANADIUM	NR	NR	NR	NR	NR
ZINC	NR	NR	NR	NR	NR

< = less than detection limits
NR = Not Reported

Dissolved Metals in Groundwater
Anchorage Bowl
US Geological Service

USGS Location ID	SB01300320ACBA1054	SB01300320ACCC1056	SB01300320ACCC2056	SB01300320BDAA1002	
Location ID	611223149505601	611214149505901	611214149510301	611224149510801	
CH2M Hill Site ID	USGS-15	USGS-12	USGS-13	USGS-16	
Sample Date	860904	860905	860905	851126	860826
Units	mg/l	mg/l	mg/l	mg/l	mg/l
SILVER	NR	NR	NR	NR	NR
ALUMINUM	NR	NR	NR	NR	NR
ARSENIC	NR	NR	NR	NR	NR
BARIUM	NR	NR	NR	NR	NR
BERYLLIUM	NR	NR	NR	NR	NR
CADMIUM	NR	NR	NR	NR	NR
CHROMIUM	NR	NR	NR	NR	NR
COBALT	NR	NR	NR	NR	NR
COPPER	NR	NR	NR	NR	NR
IRON	24	13	5.7	7.1	7.6
MERCURY	NR	NR	NR	NR	NR
LITHIUM	NR	NR	NR	NR	NR
MAGNESIUM	NR	NR	NR	NR	NR
MANGANESE	1.4	.54	.41	1	1.1
MOLYBDENUM	NR	NR	NR	NR	NR
NICKEL	NR	NR	NR	NR	NR
LEAD	NR	NR	NR	NR	NR
ANTIMONY	NR	NR	NR	NR	NR
SELENIUM	NR	NR	NR	NR	NR
STRONTIUM	NR	NR	NR	NR	NR
THALLIUM	NR	NR	NR	NR	NR
VANADIUM	NR	NR	NR	NR	NR
ZINC	NR	NR	NR	NR	NR

< = less than detection limits
NR = Not Reported

Dissolved Metals in Groundwater
Anchorage Bowl
US Geological Service

USGS Location ID	SB01300320DBBA1057	SB01300320DBBB1058	SB01300333AADA2023	SB01300336ADDA1001
Location ID	611210149505301	611210149510101	611046149482401	611033149430101
CH2M Hill Site ID	USGS-10	USGS-11	USGS-09	USGS-08
Sample Date	860903	860903	900820	890905
Units	mg/l	mg/l	mg/l	mg/l
SILVER	NR	NR	< .001	< .001
ALUMINUM	NR	NR	.03	< .01
ARSENIC	NR	NR	.001	< .001
BARIUM	NR	NR	.009	.008
BERYLLIUM	NR	NR	< .0005	< .0005
CADMIUM	NR	NR	.002	< .001
CHROMIUM	NR	NR	< .001	< .001
COBALT	NR	NR	< .003	< .003
COPPER	NR	NR	.001	< .001
IRON	.17	.098	.34	.005
MERCURY	NR	NR	.0005	< .0001
LITHIUM	NR	NR	.007	< .004
MAGNESIUM	NR	NR	7.8	NR
MANGANESE	.024	.17	.087	< .001
MOLYBDENUM	NR	NR	< .01	< .01
NICKEL	NR	NR	.001	< .001
LEAD	NR	NR	< .001	< .001
ANTIMONY	NR	NR	NR	NR
SELENIUM	NR	NR	< .001	< .001
STRONTIUM	NR	NR	.2	.17
THALLIUM	NR	NR	NR	NR
VANADIUM	NR	NR	< .006	< .006
ZINC	.007	NR	.003	.004

< = less than detection limits
NR = Not Reported

Total Metals in Groundwater
Anchorage Bowl
US Geological Service

USGS Location ID	SB01300320DBBA1057	SB01300320DBBB1058	SB01300320ACCC1056	SB01300320ACCC2056
Location ID	611210149505301	611210149510101	611214149505901	611214149510301
CH2M Hill Site ID	USGS-10	USGS-11	USGS-12	USGS-13
Sample Date	860903	860903	860905	860905
Units	mg/l	mg/l	mg/l	mg/l
SILVER	NR	NR	NR	NR
ALUMINUM	NR	NR	NR	NR
ARSENIC	.036	.008	.002	.004
BARIUM	NR	NR	NR	NR
BERYLLIUM	NR	NR	NR	NR
CADMIUM	< .001	< .001	.001	< .001
CHROMIUM	.033	.009	.007	.04
COBALT	NR	NR	NR	NR
COPPER	.33	.004	.015	.013
IRON	210	1.6	17	9.5
MERCURY	< .0001	< .0001	.0001	.0001
LITHIUM	NR	NR	NR	NR
MAGNESIUM	NR	NR	NR	NR
MANGANESE	4.1	.17	.6	.46
MOLYBDENUM	NR	NR	NR	NR
NICKEL	.3	.003	.012	.011
LEAD	.051	< .005	< .005	< .005
ANTIMONY	.003	< .001	< .001	< .001
SELENIUM	NR	NR	NR	NR
STRONTIUM	NR	NR	NR	NR
THALLIUM	NR	NR	NR	NR
VANADIUM	NR	NR	NR	NR
ZINC	.54	.05	.02	< .01

< = less than detection limits
NR = Not Recorded

Total Metals in Groundwater
Anchorage Bowl
US Geological Service

USGS Location ID	SB01300320ABDD1033	SB01300320ABDD1033	SB01300320ABDD1033		
Location ID	611223149503901	611223149503901	611223149503901		
CH2M Hill Site ID	USGS-14	USGS-14	USGS-14		
Sample Date	851126	860826	861126	851126	860826
Units	mg/l	mg/l	mg/l	mg/l	mg/l
SILVER	< .001	NR	NR	< .001	NR
ALUMINUM	NR	NR	NR	NR	NR
ARSENIC	.026	.023	NR	.13	.13
BARIUM	NR	NR	NR	NR	NR
BERYLLIUM	< .01	NR	NR	< .01	NR
CADMIUM	< .001	< .001	NR	< .001	< .001
CHROMIUM	.012	NR	.009	.008	.029
COBALT	NR	NR	NR	NR	NR
COPPER	.001	.003	NR	.001	.033
IRON	.22	.37	NR	11	14
MERCURY	NR	< .0001	NR	NR	< .0001
LITHIUM	NR	NR	NR	NR	NR
MAGNESIUM	NR	NR	NR	NR	NR
MANGANESE	.18	.15	NR	2.8	3
MOLYBDENUM	NR	NR	NR	NR	NR
NICKEL	< .001	.002	NR	.003	.013
LEAD	.001	< .005	NR	< .001	< .005
ANTIMONY	.001	.001	NR	.006	.004
SELENIUM	< .001	NR	NR	< .001	NR
STRONTIUM	NR	NR	NR	NR	NR
THALLIUM	< .001	NR	NR	< .001	NR
VANADIUM	NR	NR	NR	NR	NR
ZINC	.03	.01	NR	< .01	.03

< = less than detection limits
NR = Not Recorded

Total Metals in Groundwater
Anchorage Bowl
US Geological Service

USGS Location ID	SB01300320ACBA1054	SB01300320BDAA1002	SB01300320BDAA1002	SB01300320ABDC1052
Location ID	611223149505601	611224149510801	611224149510801	611227149504501
CH2M Hill Site ID	USGS-15	USGS-16	USGS-16	USGS-17
Sample Date	860904	851126	860826	860903
Units	mg/l	mg/l	mg/l	mg/l
SILVER	NR	< .001	NR	NR
ALUMINUM	NR	NR	NR	NR
ARSENIC	.004	.046	.047	.001
BARIUM	NR	NR	NR	NR
BERYLLIUM	NR	< .01	NR	NR
CADMIUM	< .001	< .001	< .001	< .001
CHROMIUM	.004	.056	.22	.002
COBALT	NR	NR	NR	NR
COPPER	.004	.031	.11	.004
IRON	250	32	72	74
MERCURY	< .0001	.0001	.0004	.0001
LITHIUM	NR	NR	NR	NR
MAGNESIUM	NR	NR	NR	NR
MANGANESE	1.5	1.5	2.4	4.5
MOLYBDENUM	NR	NR	NR	NR
NICKEL	.01	.021	.088	.011
LEAD	< .005	.002	.012	< .005
ANTIMONY	< .001	.002	.004	< .001
SELENIUM	NR	< .001	NR	NR
STRONTIUM	NR	NR	NR	NR
THALLIUM	NR	< .001	NR	NR
VANADIUM	NR	NR	NR	NR
ZINC	.02	.08	.16	.02

< = less than detection limits
NR = Not Recorded

Total Metals in Groundwater
Anchorage Bowl
US Geological Service

USGS Location ID	SB01300320ABDA1051	SB01300320ABDA1051	SB01300320ABCD1053	SB01300320AADA1003
Location ID	611228149503901	611228149503901	611228149505401	611229149501301
CH2M Hill Site ID	USGS-18	USGS-18	USGS-19	USGS-20
Sample Date	860903	870623	860903	851127
Units	mg/l	mg/l	mg/l	mg/l
SILVER	NR	NR	NR	.001
ALUMINUM	NR	NR	NR	NR
ARSENIC	.001	NR	.006	.009
BARIUM	NR	NR	NR	NR
BERYLLIUM	NR	NR	NR	< .01
CADMIUM	< .001	NR	< .001	< .001
CHROMIUM	.006	NR	.015	.035
COBALT	NR	NR	NR	NR
COPPER	.004	NR	.052	.25
IRON	22	NR	58	220
MERCURY	.0003	NR	.0005	.0006
LITHIUM	NR	NR	NR	NR
MAGNESIUM	NR	NR	NR	NR
MANGANESE	1.5	NR	1.9	5.2
MOLYBDENUM	NR	NR	NR	NR
NICKEL	.01	NR	.043	.27
LEAD	< .005	NR	< .005	.054
ANTIMONY	< .001	NR	.001	.002
SELENIUM	NR	NR	NR	< .001
STRONTIUM	NR	NR	NR	NR
THALLIUM	NR	NR	NR	< .001
VANADIUM	NR	NR	NR	NR
ZINC	NR	.03	.17	.63

< = less than detection limits
NR = Not Recorded

Total Metals in Groundwater
Anchorage Bowl
US Geological Service

USGS Location ID	SB01300320AADA1003	SB01300316CCBC3006						
Location ID	611229149501301	611243149500701						
CH2M Hill Site ID	USGS-20	USGS-22						
Sample Date	860827	851125	860825	851125	860825	851105	851125	860825
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
SILVER	NR	< .001	NR	< .001	NR	NR	< .001	NR
ALUMINUM	NR	NR	NR	NR	NR	NR	NR	NR
ARSENIC	.024	.054	.036	.051	.038	NR	.01	.041
BARIUM	NR	NR	NR	NR	NR	NR	NR	NR
BERYLLIUM	NR	< .01	NR	< .01	NR	NR	< .01	NR
CADMIUM	< .001	< .001	< .001	< .001	< .001	NR	< .001	< .001
CHROMIUM	.045	.013	.01	.008	.028	NR	.004	< .001
COBALT	NR	NR	NR	NR	NR	NR	NR	NR
COPPER	.21	.001	.01	.002	.01	NR	.009	.008
IRON	130	1.9	2.4	2.4	8.5	NR	110	88
MERCURY	.0004	NR	.0003	NR	< .0001	NR	NR	NR
LITHIUM	NR	NR	NR	NR	NR	NR	NR	NR
MAGNESIUM	NR	NR	NR	NR	NR	NR	NR	NR
MANGANESE	3.2	.28	.25	.29	.32	NR	.10	6.3
MOLYBDENUM	NR	NR	NR	NR	NR	NR	NR	NR
NICKEL	.2	< .001	.007	.001	.007	NR	.081	.08
LEAD	.031	< .001	.026	< .001	.01	< .001	NR	.23
ANTIMONY	.002	.003	.002	.003	.001	NR	.014	.007
SELENIUM	NR	< .001	NR	< .001	NR	NR	< .001	NR
STRONTIUM	NR	NR	NR	NR	NR	NR	NR	NR
THALLIUM	NR	< .001	NR	< .001	NR	NR	< .001	NR
VANADIUM	NR	NR	NR	NR	NR	NR	NR	NR
ZINC	.35	.03	.03	< .01	.03	NR	.06	.04

< = less than detection limits
NR = Not Recorded

Total Metals in Groundwater
Anchorage Bowl
US Geological Service

USGS Location ID	Not Available		Not Available		SB01300316CAAC2007	
Location ID	611243149501401		611243149504801		611259149492601	
CH2M Hill Site ID	USGS-23		USGS-24		USGS-25	
Sample Date	851127	860827	851127	860827	851127	860826
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
SILVER	< .001	NR	< .001	NR	< .001	NR
ALUMINUM	NR	NR	NR	NR	NR	NR
ARSENIC	.012	.045	.004	.012	.005	.003
BARIUM	NR	NR	NR	NR	NR	NR
BERYLLIUM	< .01	NR	< .01	NR	< .01	NR
CADMIUM	< .001	.001	< .001	< .001	< .001	< .001
CHROMIUM	.04	.001	.005	.002	.22	.35
COBALT	NR	NR	NR	NR	NR	NR
COPPER	.23	1.1	.07	.032	.047	.043
IRON	99	500	240	140	34	25
MERCURY	.0006	.0011	.0004	.0002	NR	< .0001
LITHIUM	NR	NR	NR	NR	NR	NR
MAGNESIUM	NR	NR	NR	NR	NR	NR
MANGANESE	2.1	13	64	59	1.1	.81
MOLYBDENUM	NR	NR	NR	NR	NR	NR
NICKEL	.13	1	.17	.04	.042	.05
LEAD	.027	.3	.008	< .005	.005	< .005
ANTIMONY	.002	.005	.002	.001	.001	< .001
SELENIUM	< .001	NR	< .001	NR	< .001	NR
STRONTIUM	NR	NR	NR	NR	NR	NR
THALLIUM	< .001	NR	< .001	NR	< .001	NR
VANADIUM	NR	NR	NR	NR	NR	NR
ZINC	.48	3.5	.2	.07	.1	.07

< = less than detection limits
NR = Not Recorded

Total Metals in Groundwater
Anchorage Bowl
US Geological Service

USGS Location ID	**SB01300309BCCD1006**
Location ID	**611355149500201**
CH2M Hill Site ID	**USGS-26**
Sample Date	**900822**
Units	**mg/l**
SILVER	NR
ALUMINUM	< .03
ARSENIC	NR
BARIUM	NR
BERYLLIUM	NR
CADMIUM	NR
CHROMIUM	NR
COBALT	NR
COPPER	NR
IRON	NR
MERCURY	NR
LITHIUM	NR
MAGNESIUM	NR
MANGANESE	NR
MOLYBDENUM	NR
NICKEL	NR
LEAD	NR
ANTIMONY	NR
SELENIUM	NR
STRONTIUM	NR
THALLIUM	NR
VANADIUM	NR
ZINC	NR

< = less than detection limits
NR = Not Recorded

ATTACHMENT B
BLACK AND VEATCH DATA

Attachment B

Black & Veatch Data

VOLATILES AND SEMIVOLATILES IN GROUNDWATER

Volatiles in Groundwater
Elmendorf AFB, AK
Black & Veatch

Location ID	BW-1	BW-52	D13-01	FTA					
Sample ID	BW-1/36	BW-52/37	GN-88-0003	FP51-WS1	FP52-WS1	FP53-WS1	FP54-WS1	FP55-WS1	FP56-WS1
Lab Sample ID									
Sample Date	861015	861015	880809	880704	880703	880703	880703	880703	880704
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,1,1-TRICHLOROETHANE	.63	NR	NR	0 ND	1400	0 ND	0 ND	0 ND	110
1,1,2-TRICHLOROETHANE	NR	NR	NR	NR	.11	NR	NR	NR	NR
1,1-DICHLOROETHANE	NR	NR	NR	NR	NR	NR	NR	NR	NR
1,2-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR	NR	NR	NR
1,2-DICHLOROETHANE	NR	NR	NR	NR	NR	NR	NR	NR	NR
1,3-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR	NR	NR	NR
1,4-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR	NR	NR	NR
BENZENE	NR	NR	NR	NR	NR	NR	NR	NR	NR
CHLOROBENZENE	NR	NR	NR	NR	NR	NR	NR	NR	NR
CHLORODIBROMOMETHANE	NR	NR	NR	NR	NR	NR	NR	NR	NR
CHLOROETHANE	NR	NR	NR	NR	NR	NR	NR	NR	NR
CHLOROFORM	NR	1.2	NR	NR	NR	NR	NR	NR	NR
ETHYLBENZENE	NR	NR	NR	NR	NR	NR	NR	NR	NR
ETHYLENE DIBROMIDE	NR	NR	NR	NR	NR	NR	NR	NR	NR
M-XYLENE (1,3-DIMETHYLBENZENE	NR	NR	NR	NR	NR	NR	NR	NR	NR
METHYLENE CHLORIDE	3.7	NR	NR	16	0 ND	0 ND	0 ND	0 ND	0 ND
TETRACHLOROETHENE	.77	NR	1.5	NR	NR	NR	NR	NR	NR
TOLUENE	NR	NR	NR	NR	NR	NR	NR	NR	NR
trans-1,2-DICHLOROETHENE	NR	NR	NR	NR	NR	NR	NR	NR	NR
TRICHLOROETHENE	1.2	NR	NR	NR	NR	NR	NR	NR	NR
TRICHLOROFLUOROMETHANE	.83	NR	.81	NR	NR	NR	NR	NR	NR
VINYL CHLORIDE	NR	NR	NR	NR	NR	NR	NR	NR	NR
XYLENES, o & p	NR	NR	NR	NR	NR	NR	NR	NR	NR
XYLENES, TOTAL	NR	NR	NR	NR	NR	NR	NR	NR	NR

Note: These data have no associated laboratory QC data
NR = Not Reported
ND = Not Detects

Volatiles in Groundwater
Elmendorf AFB, AK
Black & Veatch

Location ID	GW-1B		GW-1C	GW-2A	GW-2B	GW-2C	GW-4A	SC-1	W-1	W-10
Sample ID	GN-88-0001	GW-1B/15	GW-1C/14	GW-2A/20	GW-2B/18	GW-2C/19	GW-4A/8	SC-1/33	W-1/16	W-10/12
Lab Sample ID										
Sample Date	880809	861005	861005	861006	861006	861006	870718	861010	861005	861004
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,1,1-TRICHLOROETHANE	36	32	NR	NR	NR	NR	NR	NR	NR	NR
1,1,2-TRICHLOROETHANE	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1,1-DICHLOROETHANE	4.2	4.7	NR	NR	1.5	3.5	NR	NR	NR	NR
1,2-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1,2-DICHLOROETHANE	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1,3-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1,4-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
BENZENE	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
CHLOROBENZENE	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
CHLORODIBROMOMETHANE	NR	NR	NR	NR	NR	NR	1.6	NR	NR	NR
CHLOROETHANE	9.5	NR	NR	NR	NR	NR	NR	NR	NR	NR
CHLOROFORM	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
ETHYLBENZENE	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
ETHYLENE DIBROMIDE	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
M-XYLENE (1,3-DIMETHYLBENZENE	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
METHYLENE CHLORIDE	NR	2.6	.72	.8	3	31	NR	NR	NR	19
TETRACHLOROETHENE	1.9	.49	.58	NR	NR	NR	.46	NR	NR	NR
TOLUENE	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
trans-1,2-DICHLOROETHENE	NR	NR	1.1	NR	6.9	3.1	2.4	NR	3.2	NR
TRICHLOROETHENE	3.5	2.7	NR	NR	2.3	.66	3	NR	NR	NR
TRICHLOROFLUOROMETHANE	49	.6	.51	NR	1.3	1.2	.49	.54	NR	NR
VINYL CHLORIDE	9.5	NR	NR	NR	NR	NR	NR	NR	NR	NR
XYLENES, o & p	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
XYLENES, TOTAL	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR

Note: These data have no associated la
NR = Not Reported
ND = Not Detects

Volatiles in Groundwater
Elmendorf AFB, AK
Black & Veatch

Location ID	W-11	W-12	W-13	W-18		W-19	W-2	W-5	W-6	
Sample ID	W-11/11	W-12/9	W-13/10	W-18/49	W-18/51(FQC)	W-19/54	W-2/17	W-5/26	W-6B/25	ELMNF-89-GW-5/5A-22
Lab Sample ID										
Sample Date	861004	861003	861004	870721	870721	870721	861005	861008	861008	891114
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,1,1-TRICHLOROETHANE	NR	NR	NR	NR	NR	2.4	NR	NR	NR	NR
1,1,2-TRICHLOROETHANE	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1,1-DICHLOROETHANE	NR	NR	NR	1.4	1.3	6.1	NR	NR	NR	NR
1,2-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR	NR	NR	NR	2 ND
1,2-DICHLOROETHANE	NR	NR	1.1	NR	NR	NR	NR	NR	NR	NR
1,3-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR	NR	NR	NR	2 ND
1,4-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR	NR	NR	NR	.5 ND
BENZENE	NR	NR	NR	NR	NR	NR	NR	NR	NR	.7 ND
CHLOROBENZENE	NR	NR	NR	NR	NR	NR	NR	NR	NR	1 ND
CHLORODIBROMOMETHANE	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
CHLOROETHANE	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
CHLOROFORM	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
ETHYLBENZENE	NR	NR	NR	NR	NR	NR	NR	NR	NR	1 ND
ETHYLENE DIBROMIDE	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
M-XYLENE (1,3-DIMETHYLBENZENE	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
METHYLENE CHLORIDE	3.7	6.3	NR	NR	NR	NR	.57	1.8	NR	NR
TETRACHLOROETHENE	NR	1.6	NR	NR	NR	NR	.48	NR	NR	NR
TOLUENE	NR	NR	NR	NR	NR	NR	NR	NR	NR	1 ND
trans-1,2-DICHLOROETHENE	16	30	15	NR	NR	NR	1.3	NR	NR	NR
TRICHLOROETHENE	47	26	5.2	NR	NR	NR	NR	NR	NR	NR
TRICHLOROFLUOROMETHANE	.62	NR	.68	NR	NR	NR	NR	.99	.56	NR
VINYL CHLORIDE	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
XYLENES, o & p	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
XYLENES, TOTAL	NR	NR	NR	NR	NR	NR	NR	NR	NR	2 ND

Note: These data have no associated la
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ND = Not Detects

Volatiles in Groundwater
Elmendorf AFB, AK
Black & Veatch

Location ID	W-6	FTA						SP1-02
Sample ID	ELMNF-89-GW-5/5A-23	FP51-WS1	FP52-WS1	FP53-WS1	FP54-WS1	FP55-WS1	FP56-WS1	GN-88-0003
Lab Sample ID								
Sample Date	891114	880704	880703	880703	880703	880703	880704	880822
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,1,1-TRICHLOROETHANE	NR	NR	NR	NR	NR	NR	NR	NR
1,1,2-TRICHLOROETHANE	NR	NR	NR	NR	NR	NR	NR	NR
1,1-DICHLOROETHANE	NR	NR	NR	NR	NR	NR	NR	NR
1,2-DICHLOROBENZENE	2 ND	NR	NR	NR	NR	NR	NR	NR
1,2-DICHLOROETHANE	NR	NR	NR	NR	NR	NR	NR	NR
1,3-DICHLOROBENZENE	2 ND	NR	NR	NR	NR	NR	NR	NR
1,4-DICHLOROBENZENE	.5 ND	NR	NR	NR	NR	NR	NR	NR
BENZENE	.7 ND	0 ND	290	340	73	0 ND	250	NR
CHLOROBENZENE	1 ND	NR	NR	NR	NR	NR	NR	NR
CHLORODIBROMOMETHANE	NR	NR	NR	NR	NR	NR	NR	NR
CHLOROETHANE	NR	NR	NR	NR	NR	NR	NR	NR
CHLOROFORM	NR	NR	NR	NR	NR	NR	NR	NR
ETHYLBENZENE	1 ND	0 ND	620	1600	770	220	860	1.4
ETHYLENE DIBROMIDE	NR	NR	NR	NR	NR	NR	NR	NR
M-XYLENE (1,3-DIMETHYLBENZENE	NR	NR	NR	NR	NR	NR	NR	NR
METHYLENE CHLORIDE	NR	NR	NR	NR	NR	NR	NR	NR
TETRACHLOROETHENE	NR	NR	NR	NR	NR	NR	NR	NR
TOLUENE	1 ND	6.4	2300	2200	420	330	1000	NR
trans-1,2-DICHLOROETHENE	NR	NR	NR	NR	NR	NR	NR	NR
TRICHLOROETHENE	NR	NR	NR	NR	NR	NR	NR	NR
TRICHLOROFLUOROMETHANE	NR	NR	NR	NR	NR	NR	NR	NR
VINYL CHLORIDE	NR	NR	NR	NR	NR	NR	NR	NR
XYLENES, o & p	NR	NR	NR	NR	NR	NR	NR	NR
XYLENES, TOTAL	2 ND	11	1300	6300	1100	0 ND	3000	NR

Note: These data have no associated la
NR = Not Reported
ND = Not Detects

Volatiles in Groundwater
Elmendorf AFB, AK
Black & Veatch

Location ID	SP1-02	W-3	W-8	SP14-02	W-17	
Sample ID	GN-88-0003D	W-3/23	W-8/27	GN-89-0003R	GN-88-0001D	GN-89-0002R
Lab Sample ID						
Sample Date	880822	861007	861008	880824	880824	880824
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,1,1-TRICHLOROETHANE	NR	NR	NR	NR	NR	NR
1,1,2-TRICHLOROETHANE	NR	NR	NR	NR	NR	NR
1,1-DICHLOROETHANE	NR	NR	NR	NR	NR	NR
1,2-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
1,2-DICHLOROETHANE	NR	NR	NR	NR	NR	NR
1,3-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
1,4-DICHLOROBENZENE	NR	NR	NR	NR	NR	NR
BENZENE	NR	4800	NR	NR	NR	NR
CHLOROBENZENE	NR	NR	NR	NR	NR	NR
CHLORODIBROMOMETHANE	NR	NR	NR	NR	NR	NR
CHLOROETHANE	NR	NR	NR	NR	NR	NR
CHLOROFORM	NR	NR	NR	NR	NR	NR
ETHYLBENZENE	1.3	620	NR	NR	NR	NR
ETHYLENE DIBROMIDE	NR	NR	NR	.046	.005	.035
M-XYLENE (1,3-DIMETHYLBENZENE	NR	3000	NR	NR	NR	NR
METHYLENE CHLORIDE	NR	NR	NR	NR	NR	NR
TETRACHLOROETHENE	NR	NR	NR	NR	NR	NR
TOLUENE	NR	8200	2	NR	NR	NR
trans-1,2-DICHLOROETHENE	NR	NR	NR	NR	NR	NR
TRICHLOROETHENE	NR	NR	NR	NR	NR	NR
TRICHLOROFLUOROMETHANE	NR	NR	NR	NR	NR	NR
VINYL CHLORIDE	NR	NR	NR	NR	NR	NR
XYLENES, o & p	NR	2600	NR	NR	NR	NR
XYLENES, TOTAL	NR	NR	NR	NR	NR	NR

Note: These data have no associated la
NR = Not Reported
ND = Not Detects

Volatiles in Groundwater (QA)
***Elmendorf* AFB, AK**
Black & Veatch

Location ID	GW-1C				NS1-01	NS1-02	NS1-03		NS1-04
Sample ID	GW-1C	GW-1C	GW-1C	GW-1C/14	GN-88-0002	GN-88-0002	GN-88-0002	GN-88-0002	GN-88-0002
Sample Date	870720	870720	870720	861005	880806	880806	880820	880820	880806
Lab Sample ID	GW-1C	GW-1C	GW-1C					001126-0003	
Lab Lot Control Number					880817P	880817P	880817P	880817P	880817P
Sample Type	LR1	LR1	MS1	N1	LB1	LB1	LB1	N1	LB1
Units	µg/l	µg/l	%	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
BROMODICHLOROMETHANE	NR	NR	NR	NR	< .5	< .5	< .5	NR	< .5
bis(2-CHLOROETHOXY) METHANE	NR	NR	NR	NR	NR	NR	NR	NR	NR
bis(2-CHLOROISOPROPYL) ETHER	NR	NR	NR	NR	NR	NR	NR	NR	NR
BROMOBENZENE	NR	NR	NR	NR	NR	NR	NR	NR	NR
BROMOMETHANE	NR	NR	NR	NR	< 6	< 6	< 6	NR	< 6
BENZENE	NR	NR	NR	NR	NR	NR	NR	NR	NR
BENZYL CHLORIDE	NR	NR	NR	NR	NR	NR	NR	NR	NR
2-CHLOROETHYL VINYL ETHER	NR	NR	NR	NR	< .7	< .7	< .7	NR	< .7
CHLOROACETALDEHYDE	NR	NR	NR	NR	NR	NR	NR	NR	NR
CHLOROBENZENE	< .37	< .37	64	NR	< 1.2	< 1.2	< 1.2	NR	< 1.2
4-CHLOROTOLUENE	NR	NR	NR	NR	NR	NR	NR	NR	NR
CHLORODIBROMOMETHANE	NR	NR	NR	NR	< .5	< .5	< .5	NR	< .5
CHLOROETHANE	NR	NR	NR	NR	< 3	< 3	< 3	NR	< 3
1-CHLOROHEXANE	NR	NR	NR	NR	NR	NR	NR	NR	NR
CHLOROMETHANE	NR	NR	NR	NR	< .4	< .4	< .4	NR	< .4
CHLOROMETHYL METHYL ETHER	NR	NR	NR	NR	NR	NR	NR	NR	NR
CARBON TETRACHLORIDE	NR	NR	NR	NR	< .6	< .6	< .6	NR	< .6
DIBROMOMETHANE	NR	NR	NR	NR	NR	NR	NR	NR	NR
1,1-DICHLOROETHANE	NR	NR	NR	NR	< .4	< .4	< .4	NR	< .4
1,2-DICHLOROETHANE	NR	NR	NR	NR	< .2	< .2	< .2	NR	< .2
1,2-DICHLOROBENZENE	NR	NR	NR	NR	< .5	< .5	< .5	NR	< .5
1,3-DICHLOROBENZENE	NR	NR	NR	NR	< 1	< 1	< 1	NR	< 1
1,4-DICHLOROBENZENE	NR	NR	NR	NR	< .5	< .5	< .5	NR	< .5
1,1-DICHLOROETHENE	< .49	< .49	95	NR	< .7	< .7	< .7	NR	< .7
trans-1,2-DICHLOROETHENE	NR	NR	NR	1.1	< .5	< .5	< .5	NR	< .5
cis-1,3-DICHLOROPROPENE	NR	NR	NR	NR	< 1	< 1	< 1	NR	< 1
trans-1,3-DICHLOROPROPENE	NR	NR	NR	NR	< 2	< 2	< 2	NR	< 2
1,2-DICHLOROPROPANE	NR	NR	NR	NR	< .2	< .2	< .2	NR	< .2

Volatiles in Groundwater (QA)
Elmendorf AFB, AK
Black & Veatch

Location ID	GW-1C				NS1-01	NS1-02	NS1-03		NS1-04
Sample ID	GW-1C	GW-1C	GW-1C	GW-1C/14	GN-88-0002	GN-88-0002	GN-88-0002	GN-88-0002	GN-88-0002
Sample Date	870720	870720	870720	861005	880806	880806	880820	880820	880806
Lab Sample ID	GW-1C	GW-1C	GW-1C					001126-0003	
Lab Lot Control Number					880817P	880817P	880817P	880817P	880817P
Sample Type	LR1	LR1	MS1	N1	LB1	LB1	LB1	N1	LB1
Units	µg/l	µg/l	%	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
TRICHLOROFLUOROMETHANE	NR	NR	NR	.51	< 5	< 5	< 5	NR	< 5
DICHLORODIFLUOROMETHANE	NR	NR	NR	NR	< 9	< 9	< 9	NR	< 9
METHYLENE CHLORIDE	NR	NR	NR	.72	< 2	< 2	< 2	NR	< 2
1,1,2,2-TETRACHLOROETHANE	NR	NR	NR	NR	< .2	< .2	< .2	NR	< .2
BROMOFORM	NR	NR	NR	NR	< 1	< 1	< 1	NR	< 1
1,1,1,2-TETRACHLOROETHANE	NR	NR	NR	NR	NR	NR	NR	NR	NR
1,1,1-TRICHLOROETHANE	< .53	< .53	78	NR	< .2	< .2	< .2	NR	< .2
1,1,2-TRICHLOROETHANE	NR	NR	NR	NR	< .1	< .1	< .1	NR	< .1
CHLOROFORM	< .45	< .45	81	NR	< .2	< .2	< .2	.96	< .2
1,2,3-TRICHLOROPROPANE	NR	NR	NR	NR	NR	NR	NR	NR	NR
TETRACHLOROETHENE	.58	.59	68	.58	< .2	< .2	< .2	NR	< .2
TRICHLOROETHENE	< .6	< .6	77	NR	< .6	< .6	< .6	NR	< .6
VINYL CHLORIDE	NR	NR	NR	NR	< .2	< .2	< .2	NR	< .2

NR = Not Reported

Volatiles in Groundwater (QA)
Elmendorf AFB, AK
Black & Veatch

Location ID	NS1-04	GW-1C		GW-2B		W-1		GW-2C
Sample ID	GN-88-0002	GN-88-0001	GN-88-0001	GN-88-0001	GN-88-0001	GN-88-0001	GN-88-0001	GN-88-0001
Sample Date	880806	880809	880809	880809	880809	880809	880809	880810
Lab Sample ID	001126-0004		001240-0005		001240-0007		001240-0006	
Lab Lot Control Number	880817P	880819L	880819L	880819L	880819L	880819L	880819L	880820P
Sample Type	N1	LB1	N1	LB1	N1	LB1	N1	LB1
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
BROMODICHLOROMETHANE	NR	< .6	NR	< .6	NR	< .6	NR	< .5
bis(2-CHLOROETHOXY) METHANE	NR	ND	NR	ND	NR	ND	NR	ND
bis(2-CHLOROISOPROPYL) ETHER	NR	< 10	NR	< 10	NR	< 10	NR	ND
BROMOBENZENE	NR	< 5	NR	< 5	NR	< 5	NR	ND
BROMOMETHANE	NR	< .4	NR	< .4	NR	< .4	NR	< 6
BENZENE	NR	NR	NR	NR	1.1	NR	NR	NR
BENZYL CHLORIDE	NR	< 6.8	NR	< 6.8	NR	< 6.8	NR	ND
2-CHLOROETHYL VINYL ETHER	NR	< .1	NR	< .1	NR	< .1	NR	< .7
CHLOROACETALDEHYDE	NR	ND	NR	ND	NR	ND	NR	ND
CHLOROBENZENE	NR	< .2	NR	< .2	NR	< .2	NR	< 1.2
4-CHLOROTOLUENE	NR	< 23	NR	< 23	NR	< 23	NR	ND
CHLORODIBROMOMETHANE	NR	< .6	NR	< .6	NR	< .6	NR	< .5
CHLOROETHANE	NR	< .2	NR	< .2	NR	< .2	NR	< 3
1-CHLOROHEXANE	NR	< 5	NR	< 5	NR	< 5	NR	ND
CHLOROMETHANE	NR	ND	NR	ND	NR	ND	NR	< .4
CHLOROMETHYL METHYL ETHER	NR	ND	NR	ND	NR	ND	NR	ND
CARBON TETRACHLORIDE	NR	< .2	NR	< .2	NR	< .2	NR	< .6
DIBROMOMETHANE	NR	< 5	NR	< 5	NR	< 5	NR	ND
1,1-DICHLOROETHANE	NR	< .7	NR	< .7	2.5	< .7	NR	< .4
1,2-DICHLOROETHANE	NR	< .2	NR	< .2	NR	< .2	NR	< .2
1,2-DICHLOROBENZENE	NR	< 1	NR	< 1	NR	< 1	NR	< .5
1,3-DICHLOROBENZENE	NR	< 1.2	NR	< 1.2	NR	< 1.2	NR	< 1
1,4-DICHLOROBENZENE	NR	< .5	NR	< .5	NR	< .5	NR	< .5
1,1-DICHLOROETHENE	NR	< 5	NR	< 5	NR	< 5	NR	< .7
trans-1,2-DICHLOROETHENE	NR	< .4	NR	< .4	NR	< .4	3.2	< .5
cis-1,3-DICHLOROPROPENE	NR	< 1	NR	< 1	NR	< 1	NR	< 1
trans-1,3-DICHLOROPROPENE	NR	< .2	NR	< .2	NR	< .2	NR	< 2
1,2-DICHLOROPROPANE	NR	< .5	NR	< .5	NR	< .5	NR	< .2

Volatiles in Groundwater (QA)
Elmendorf AFB, AK
Black & Veatch

Location ID	NS1-04	GW-1C		GW-2B		W-1		GW-2C
Sample ID	GN-88-0002	GN-88-0001	GN-88-0001	GN-88-0001	GN-88-0001	GN-88-0001	GN-88-0001	GN-88-0001
Sample Date	880806	880809	880809	880809	880809	880809	880809	880810
Lab Sample ID	001126-0004		001240-0005		001240-0007		001240-0006	
Lab Lot Control Number	880817P	880819L	880819L	880819L	880819L	880819L	880819L	880820P
Sample Type	N1	LB1	N1	LB1	N1	LB1	N1	LB1
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
TRICHLOROFLUOROMETHANE	NR	< 2	NR	< 2	NR	< 2	NR	< 5
DICHLORODIFLUOROMETHANE	NR	< 6	NR	< 6	10	< 6	NR	< 9
METHYLENE CHLORIDE	NR	< 3	NR	< 3	NR	< 3	NR	< 2
1,1,2,2-TETRACHLOROETHANE	NR	< 1	NR	< 1	NR	< 1	NR	< .2
BROMOFORM	NR	< .7	NR	< .7	NR	< .7	NR	< 1
1,1,1,2-TETRACHLOROETHANE	NR	< 5	NR	< 5	NR	< 5	NR	ND
1,1,1-TRICHLOROETHANE	.53	< .2	NR	< .2	.52	< .2	NR	< .2
1,1,2-TRICHLOROETHANE	NR	< .5	NR	< .5	NR	< .5	NR	< .1
CHLOROFORM	.6	< .5	NR	< .5	NR	< .5	NR	< .2
1,2,3-TRICHLOROPROPANE	NR	NR	NR	NR	NR	NR	NR	ND
TETRACHLOROETHENE	NR	< .2	.42	< .2	.71	< .2	NR	< .2
TRICHLOROETHENE	NR	< 2	NR	< 2	3	< 2	NR	< .6
VINYL CHLORIDE	NR	< 9	NR	< 9	10	< 9	.9	< .2

NR = Not Reported

Volatiles in Groundwater (QA)
Elmendorf AFB, AK
Black & Veatch

Location ID	GW-2C	GW-6A	SP2/6-04	W-5				W-6
Sample ID	GN-88-0001	GN-88-0001	GN-88-0002	GN-88-0001	GN-88-0001	GN-88-0001D	GN-88-0001D	GN-88-0001
Sample Date	880810	880810	880813	880810	880810	880810	880810	880810
Lab Sample ID	001206-0006				001206-0004		001206-0004	
Lab Lot Control Number	880820P	880820P	880820P	880820P	880820P	880820P	880820P	880820P
Sample Type	N1	LB1	LB1	LB1	N1	LB1	FD1	LB1
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
BROMODICHLOROMETHANE	NR	< .5	< .5	< .5	NR	< .5	NR	< .5
bis(2-CHLOROETHOXY) METHANE	NR	ND	ND	ND	NR	ND	NR	ND
bis(2-CHLOROISOPROPYL) ETHER	NR	ND	ND	ND	NR	ND	NR	ND
BROMOBENZENE	NR	ND	ND	ND	NR	ND	NR	ND
BROMOMETHANE	NR	< 6	< 6	< 6	NR	< 6	NR	< 6
BENZENE	NR	NR	NR	NR	NR	NR	NR	NR
BENZYL CHLORIDE	NR	ND	ND	ND	NR	ND	NR	ND
2-CHLOROETHYL VINYL ETHER	NR	< .7	< .7	< .7	NR	< .7	NR	< .7
CHLOROACETALDEHYDE	NR	ND	ND	ND	NR	ND	NR	ND
CHLOROBENZENE	NR	< 1.2	< 1.2	< 1.2	NR	< 1.2	NR	< 1.2
4-CHLOROTOLUENE	NR	ND	ND	ND	NR	ND	NR	ND
CHLORODIBROMOMETHANE	NR	< .5	< .5	< .5	NR	< .5	NR	< .5
CHLOROETHANE	NR	< 3	< 3	< 3	NR	< 3	NR	< 3
1-CHLOROHEXANE	NR	ND	ND	ND	NR	ND	NR	ND
CHLOROMETHANE	NR	< .4	< .4	< .4	NR	< .4	NR	< .4
CHLOROMETHYL METHYL ETHER	NR	ND	ND	ND	NR	ND	NR	ND
CARBON TETRACHLORIDE	NR	< .6	< .6	< .6	NR	< .6	NR	< .6
DIBROMOMETHANE	NR	ND	ND	ND	NR	ND	NR	ND
1,1-DICHLOROETHANE	3	< .4	< .4	< .4	NR	< .4	NR	< .4
1,2-DICHLOROETHANE	NR	< .2	< .2	< .2	NR	< .2	NR	< .2
1,2-DICHLOROBENZENE	NR	< .5	< .5	< .5	NR	< .5	NR	< .5
1,3-DICHLOROBENZENE	NR	< 1	< 1	< 1	NR	< 1	NR	< 1
1,4-DICHLOROBENZENE	NR	< .5	< .5	< .5	NR	< .5	NR	< .5
1,1-DICHLOROETHENE	NR	< .7	< .7	< .7	NR	< .7	NR	< .7
trans-1,2-DICHLOROETHENE	NR	< .5	< .5	< .5	NR	< .5	NR	< .5
cis-1,3-DICHLOROPROPENE	NR	< 1	< 1	< 1	NR	< 1	NR	< 1
trans-1,3-DICHLOROPROPENE	NR	< 2	< 2	< 2	NR	< 2	NR	< 2
1,2-DICHLOROPROPANE	NR	< .2	< .2	< .2	NR	< .2	NR	< .2

Volatiles in Groundwater (QA)
Elmendorf AFB, AK
Black & Veatch

Location ID	GW-2C	GW-6A	SP2/6-04	W-5				W-6
Sample ID	GN-88-0001	GN-88-0001	GN-88-0002	GN-88-0001	GN-88-0001	GN-88-0001D	GN-88-0001D	GN-88-0001
Sample Date	880810	880810	880813	880810	880810	880810	880810	880810
Lab Sample ID	001206-0006				001206-0004		001206-0004	
Lab Lot Control Number	880820P	880820P	880820P	880820P	880820P	880820P	880820P	880820P
Sample Type	N1	LB1	LB1	LB1	N1	LB1	FD1	LB1
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
TRICHLOROFLUOROMETHANE	NR	< 5	< 5	< 5	NR	< 5	NR	< 5
DICHLORODIFLUOROMETHANE	19	< 9	< 9	< 9	NR	< 9	NR	< 9
METHYLENE CHLORIDE	NR	< 2	< 2	< 2	NR	< 2	NR	< 2
1,1,2,2-TETRACHLOROETHANE	NR	< .2	< .2	< .2	NR	< .2	NR	< .2
BROMOFORM	NR	< 1	< 1	< 1	NR	< 1	NR	< 1
1,1,1,2-TETRACHLOROETHANE	NR	ND	ND	ND	NR	ND	NR	ND
1,1,1-TRICHLOROETHANE	NR	< .2	< .2	< .2	.21	< .2	.26	< .2
1,1,2-TRICHLOROETHANE	NR	< .1	< .1	< .1	NR	< .1	NR	< .1
CHLOROFORM	NR	< .2	< .2	< .2	NR	< .2	NR	< .2
1,2,3-TRICHLOROPROPANE	NR	ND	ND	ND	NR	ND	NR	ND
TETRACHLOROETHENE	NR	< .2	< .2	< .2	.5	< .2	.52	< .2
TRICHLOROETHENE	.93	< .6	< .6	< .6	NR	< .6	NR	< .6
VINYL CHLORIDE	6.7	< .2	< .2	< .2	NR	< .2	NR	< .2

NR = Not Reported

Volatiles in Groundwater (QA)
Elmendorf AFB, AK
Black & Veatch

Location ID	IS1-01		IS2-01		IS4-01		IS5-01	
Sample ID	GN-88-0003	GN-88-0003	GN-88-0003	GN-88-0003	GN-88-0003	GN-88-0003	GN-88-0003	GN-88-0003
Sample Date	880818	880818	880817	880818	880818	880818	880817	880817
Lab Sample ID		001318-0007				001318-0004		001302-0002
Lab Lot Control Number	880829P	880829P	880829P	880829P	880829P	880829P	880829P	880829P
Sample Type	LB1	N1	LB1	LB1	LB1	N1	LB1	N1
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
BROMODICHLOROMETHANE	< .5	NR	< .5	< .5	< .5	NR	< .5	NR
bis(2-CHLOROETHOXY) METHANE	ND	NR	ND	ND	ND	NR	ND	NR
bis(2-CHLOROISOPROPYL) ETHER	< 10	NR	< 10	< 10	< 10	NR	< 10	NR
BROMOBENZENE	< 5	NR	< 5	< 5	< 5	NR	< 5	NR
BROMOMETHANE	< 6	NR	< 6	< 6	< 6	NR	< 6	NR
BENZENE	NR	NR	NR	NR	NR	NR	NR	NR
BENZYL CHLORIDE	< 6.8	NR	< 6.8	< 6.8	< 6.8	NR	< 6.8	NR
2-CHLOROETHYL VINYL ETHER	< .7	NR	< .7	< .7	< .7	NR	< .7	NR
CHLOROACETALDEHYDE	ND	NR	ND	ND	ND	NR	ND	NR
CHLOROBENZENE	< 1.2	NR	< 1.2	< 1.2	< 1.2	NR	< 1.2	NR
4-CHLOROTOLUENE	< 23	NR	< 23	< 23	< 23	NR	< 23	NR
CHLORODIBROMOMETHANE	< .5	NR	< .5	< .5	< .5	NR	< .5	NR
CHLOROETHANE	< 3	NR	< 3	< 3	< 3	NR	< 3	NR
1-CHLOROHEXANE	< 5	NR	< 5	< 5	< 5	NR	< 5	NR
CHLOROMETHANE	< .4	NR	< .4	< .4	< .4	NR	< .4	NR
CHLOROMETHYL METHYL ETHER	ND	NR	ND	ND	ND	NR	ND	NR
CARBON TETRACHLORIDE	< .6	NR	< .6	< .6	< .6	NR	< .6	NR
DIBROMOMETHANE	< 5	NR	< 5	< 5	< 5	NR	< 5	NR
1,1-DICHLOROETHANE	< .4	1.1	< .4	< .4	< .4	2.2	< .4	NR
1,2-DICHLOROETHANE	< .2	NR	< .2	< .2	< .2	NR	< .2	NR
1,2-DICHLOROBENZENE	< .5	NR	< .5	< .5	< .5	NR	< .5	NR
1,3-DICHLOROBENZENE	< 1	NR	< 1	< 1	< 1	NR	< 1	NR
1,4-DICHLOROBENZENE	< .5	NR	< .5	< .5	< .5	NR	< .5	NR
1,1-DICHLOROETHENE	< .7	NR	< .7	< .7	< .7	NR	< .7	NR
trans-1,2-DICHLOROETHENE	< .5	NR	< .5	< .5	< .5	NR	< .5	NR
cis-1,3-DICHLOROPROPENE	< 1	NR	< 1	< 1	< 1	NR	< 1	NR
trans-1,3-DICHLOROPROPENE	< 2	NR	< 2	< 2	< 2	NR	< 2	NR
1,2-DICHLOROPROPANE	< .2	NR	< .2	< .2	< .2	NR	< .2	NR

Volatiles in Groundwater (QA)
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Location ID	IS1-01		IS2-01		IS4-01		IS5-01	
Sample ID	GN-88-0003	GN-88-0003	GN-88-0003	GN-88-0003	GN-88-0003	GN-88-0003	GN-88-0003	GN-88-0003
Sample Date	880818	880818	880817	880818	880818	880818	880817	880817
Lab Sample ID		001318-0007				001318-0004		001302-0002
Lab Lot Control Number	880829P	880829P	880829P	880829P	880829P	880829P	880829P	880829P
Sample Type	LB1	N1	LB1	LB1	LB1	N1	LB1	N1
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
TRICHLOROFLUOROMETHANE	< 5	NR	< 5	< 5	< 5	NR	< 5	NR
DICHLORODIFLUOROMETHANE	< 9	NR	< 9	< 9	< 9	NR	< 9	NR
METHYLENE CHLORIDE	< 2	NR	< 2	< 2	< 2	NR	< 2	NR
1,1,2,2-TETRACHLOROETHANE	< .2	NR	< .2	< .2	< .2	NR	< .2	NR
BROMOFORM	< 1	NR	< 1	< 1	< 1	NR	< 1	NR
1,1,1,2-TETRACHLOROETHANE	< 5	NR	< 5	< 5	< 5	NR	< 5	NR
1,1,1-TRICHLOROETHANE	< .2	NR	< .2	< .2	< .2	5.8	< .2	NR
1,1,2-TRICHLOROETHANE	< .1	NR	< .1	< .1	< .1	NR	< .1	NR
CHLOROFORM	< .2	NR	< .2	< .2	< .2	NR	< .2	.78
1,2,3-TRICHLOROPROPANE	NR	NR	NR	NR	NR	NR	NR	NR
TETRACHLOROETHENE	< .2	NR	< .2	< .2	< .2	NR	< .2	NR
TRICHLOROETHENE	< .6	NR	< .6	< .6	< .6	NR	< .6	NR
VINYL CHLORIDE	< .2	NR	< .2	< .2	< .2	NR	< .2	NR

NR = Not Reported

Volatiles in Groundwater (QA)
Elmendorf AFB, AK
Black & Veatch

Location ID	IS6-01		IS7-01		IS8-01			
Sample ID	GN-88-0003	GN-88-0003	GN-88-0003	GN-88-0003	GN-88-0003	GN-88-0003	GN-88-0003D	GN-88-0003D
Sample Date	880817	880817	880817	880817	880817	880817	880817	880817
Lab Sample ID		001302-0005		001302-0006		001302-0001		001302-0001
Lab Lot Control Number	880829P	880829P	880829P	880829P	880829P	880829P	880829P	880829P
Sample Type	LB1	N1	LB1	N1	LB1	N1	LB1	FD1
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
BROMODICHLOROMETHANE	< .5	NR	< .5	NR	< .5	NR	< .5	NR
bis(2-CHLOROETHOXY) METHANE	ND	NR	ND	NR	ND	NR	ND	NR
bis(2-CHLOROISOPROPYL) ETHER	< 10	NR	< 10	NR	< 10	NR	< 10	NR
BROMOBENZENE	< 5	NR	< 5	NR	< 5	NR	< 5	NR
BROMOMETHANE	< 6	NR	< 6	NR	< 6	NR	< 6	NR
BENZENE	NR	NR	NR	NR	NR	NR	NR	NR
BENZYL CHLORIDE	< 6.8	NR	< 6.8	NR	< 6.8	NR	< 6.8	NR
2-CHLOROETHYL VINYL ETHER	< .7	NR	< .7	NR	< .7	NR	< .7	NR
CHLOROACETALDEHYDE	ND	NR	ND	NR	ND	NR	ND	NR
CHLOROBENZENE	< 1.2	NR	< 1.2	NR	< 1.2	NR	< 1.2	NR
4-CHLOROTOLUENE	< 23	NR	< 23	NR	< 23	NR	< 23	NR
CHLORODIBROMOMETHANE	< .5	NR	< .5	NR	< .5	NR	< .5	NR
CHLOROETHANE	< 3	NR	< 3	NR	< 3	NR	< 3	NR
1-CHLOROHEXANE	< 5	NR	< 5	NR	< 5	NR	< 5	NR
CHLOROMETHANE	< .4	NR	< .4	NR	< .4	NR	< .4	NR
CHLOROMETHYL METHYL ETHER	ND	NR	ND	NR	ND	NR	ND	NR
CARBON TETRACHLORIDE	< .6	NR	< .6	NR	< .6	NR	< .6	NR
DIBROMOMETHANE	< 5	NR	< 5	NR	< 5	NR	< 5	NR
1,1-DICHLOROETHANE	< .4	NR	< .4	NR	< .4	2.1	< .4	2
1,2-DICHLOROETHANE	< .2	NR	< .2	NR	< .2	NR	< .2	NR
1,2-DICHLOROBENZENE	< .5	NR	< .5	NR	< .5	NR	< .5	NR
1,3-DICHLOROBENZENE	< 1	NR	< 1	NR	< 1	NR	< 1	NR
1,4-DICHLOROBENZENE	< .5	NR	< .5	NR	< .5	NR	< .5	NR
1,1-DICHLOROETHENE	< .7	NR	< .7	NR	< .7	NR	< .7	NR
trans-1,2-DICHLOROETHENE	< .5	NR	< .5	NR	< .5	NR	< .5	NR
cis-1,3-DICHLOROPROPENE	< 1	NR	< 1	NR	< 1	NR	< 1	NR
trans-1,3-DICHLOROPROPENE	< 2	NR	< 2	NR	< 2	NR	< 2	NR
1,2-DICHLOROPROPANE	< .2	NR	< .2	NR	< .2	NR	< .2	NR

Volatiles in Groundwater (QA)
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Location ID	IS6-01		IS7-01		IS8-01			
Sample ID	GN-88-0003	GN-88-0003	GN-88-0003	GN-88-0003	GN-88-0003	GN-88-0003	GN-88-0003D	GN-88-0003D
Sample Date	880817	880817	880817	880817	880817	880817	880817	880817
Lab Sample ID		001302-0005		001302-0006		001302-0001		001302-0001
Lab Lot Control Number	880829P	880829P	880829P	880829P	880829P	880829P	880829P	880829P
Sample Type	LB1	N1	LB1	N1	LB1	N1	LB1	FD1
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
TRICHLOROFLUOROMETHANE	< 5	NR	< 5	NR	< 5	NR	< 5	NR
DICHLORODIFLUOROMETHANE	< 9	NR	< 9	NR	< 9	NR	< 9	NR
METHYLENE CHLORIDE	< 2	NR	< 2	NR	< 2	NR	< 2	NR
1,1,2,2-TETRACHLOROETHANE	< .2	NR	< .2	NR	< .2	NR	< .2	NR
BROMOFORM	< 1	NR	< 1	NR	< 1	NR	< 1	NR
1,1,1,2-TETRACHLOROETHANE	< 5	NR	< 5	NR	< 5	NR	< 5	NR
1,1,1-TRICHLOROETHANE	< .2	NR	< .2	NR	< .2	.9	< .2	.93
1,1,2-TRICHLOROETHANE	< .1	NR	< .1	NR	< .1	NR	< .1	NR
CHLOROFORM	< .2	.32	< .2	NR	< .2	NR	< .2	NR
1,2,3-TRICHLOROPROPANE	NR	NR	NR	NR	NR	NR	NR	NR
TETRACHLOROETHENE	< .2	12	< .2	NR	< .2	NR	< .2	NR
TRICHLOROETHENE	< .6	8.1	< .6	76	< .6	6.6	< .6	6.8
VINYL CHLORIDE	< .2	NR	< .2	NR	< .2	NR	< .2	NR

NR = Not Reported

Volatiles in Groundwater (QA)
Elmendorf AFB, AK
Black & Veatch

Location ID	W-18	W-19		NS3-02		SP15-02	SP15-02	W-11
Sample ID	GN-88-0001	GN-88-0001	GN-88-0001	GN-88-0003	GN-88-0003	GN-88-0003	GN-88-0003D	GN-88-0001
Sample Date	880818	880818	880818	880823	880823	880822	880822	880822
Lab Sample ID			001318-0005		001347-0004			
Lab Lot Control Number	880829P	880829P	880829P	880831L	880831L	880831L	880831L	880831L
Sample Type	LB1	LB1	N1	LB1	N1	LB1	LB1	LB1
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
BROMODICHLOROMETHANE	< .5	< .5	NR	< .5	NR	< .5	< .5	< .5
bis(2-CHLOROETHOXY) METHANE	ND	ND	NR	ND	NR	ND	ND	ND
bis(2-CHLOROISOPROPYL) ETHER	< 10	< 10	NR	< 10	NR	< 10	< 10	< 10
BROMOBENZENE	< 5	< 5	NR	< 5	NR	< 5	< 5	< 5
BROMOMETHANE	< 6	< 6	NR	< 6	NR	< 6	< 6	< 6
BENZENE	NR	NR	NR	NR	NR	NR	NR	NR
BENZYL CHLORIDE	< 6.8	< 6.8	NR	< 6.8	NR	< 6.8	< 6.8	< 6.8
2-CHLOROETHYL VINYL ETHER	< .7	< .7	NR	< .7	NR	< .7	< .7	< .7
CHLOROACETALDEHYDE	ND	ND	NR	ND	NR	ND	ND	ND
CHLOROBENZENE	< 1.2	< 1.2	NR	< 1.2	NR	< 1.2	< 1.2	< 1.2
4-CHLOROTOLUENE	< 23	< 23	NR	< 23	NR	< 23	< 23	< 23
CHLORODIBROMOMETHANE	< .5	< .5	NR	< .5	NR	< .5	< .5	< .5
CHLOROETHANE	< 3	< 3	NR	< 3	NR	< 3	< 3	< 3
1-CHLOROHEXANE	< 5	< 5	NR	< 5	NR	< 5	< 5	< 5
CHLOROMETHANE	< .4	< .4	NR	< .4	NR	< .4	< .4	< .4
CHLOROMETHYL METHYL ETHER	ND	ND	NR	ND	NR	ND	ND	ND
CARBON TETRACHLORIDE	< .6	< .6	NR	< .6	NR	< .6	< .6	< .6
DIBROMOMETHANE	< 5	< 5	NR	< 5	NR	< 5	< 5	< 5
1,1-DICHLOROETHANE	< .4	< .4	7.1	< .4	NR	< .4	< .4	< .4
1,2-DICHLOROETHANE	< .2	< .2	NR	< .2	NR	< .2	< .2	< .2
1,2-DICHLOROBENZENE	< .5	< .5	NR	< .5	NR	< .5	< .5	< .5
1,3-DICHLOROBENZENE	< 1	< 1	NR	< 1	NR	< 1	< 1	< 1
1,4-DICHLOROBENZENE	< .5	< .5	NR	< .5	NR	< .5	< .5	< .5
1,1-DICHLOROETHENE	< .7	< .7	NR	< .7	NR	< .7	< .7	< .7
trans-1,2-DICHLOROETHENE	< .5	< .5	NR	< .5	NR	< .5	< .5	< .5
cis-1,3-DICHLOROPROPENE	< 1	< 1	NR	< 1	NR	< 1	< 1	< 1
trans-1,3-DICHLOROPROPENE	< 2	< 2	NR	< 2	NR	< 2	< 2	< 2
1,2-DICHLOROPROPANE	< .2	< .2	NR	< .2	NR	< .2	< .2	< .2

Volatiles in Groundwater (QA)
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Location ID	W-18	W-19		NS3-02		SP15-02	SP15-02	W-11
Sample ID	GN-88-0001	GN-88-0001	GN-88-0001	GN-88-0003	GN-88-0003	GN-88-0003	GN-88-0003D	GN-88-0001
Sample Date	880818	880818	880818	880823	880823	880822	880822	880822
Lab Sample ID			001318-0005		001347-0004			
Lab Lot Control Number	880829P	880829P	880829P	880831L	880831L	880831L	880831L	880831L
Sample Type	LB1	LB1	N1	LB1	N1	LB1	LB1	LB1
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
TRICHLOROFLUOROMETHANE	< 5	< 5	NR	< 5	NR	< 5	< 5	< 5
DICHLORODIFLUOROMETHANE	< 9	< 9	NR	< 9	NR	< 9	< 9	< 9
METHYLENE CHLORIDE	< 2	< 2	NR	< 2	NR	< 2	< 2	< 2
1,1,2,2-TETRACHLOROETHANE	< .2	< .2	NR	< .2	NR	< .2	< .2	< .2
BROMOFORM	< 1	< 1	NR	< 1	NR	< 1	< 1	< 1
1,1,1,2-TETRACHLOROETHANE	< 5	< 5	NR	< 5	NR	< 5	< 5	< 5
1,1,1-TRICHLOROETHANE	< .2	< .2	3.1	< .2	NR	< .2	< .2	< .2
1,1,2-TRICHLOROETHANE	< .1	< .1	NR	< .1	NR	< .1	< .1	< .1
CHLOROFORM	< .2	< .2	NR	< .2	NR	< .2	< .2	< .2
1,2,3-TRICHLOROPROPANE	NR	NR	NR	< 5	NR	< 5	< 5	< 5
TETRACHLOROETHENE	< .2	< .2	NR	< .2	NR	< .2	< .2	< .2
TRICHLOROETHENE	< .6	< .6	NR	< .6	1.2	< .6	< .6	< .6
VINYL CHLORIDE	< .2	< .2	NR	< .2	NR	< .2	< .2	< .2

NR = Not Reported

Volatiles in Groundwater (QA)
Elmendorf AFB, AK
Black & Veatch

Location ID	W-11	W-13				BW-1		BW-2
Sample ID	GN-88-0001	GN-88-0001	GN-88-0001	GN-88-0001D	GN-88-0001D	GN-88-0001	GN-88-0001	GN-88-0001
Sample Date	880822	880822	880822	880822	880822	880823	880823	880823
Lab Sample ID	001347-0002		001347-0001		001347-0001		001370-0007	
Lab Lot Control Number	880831L	880831L	880831L	880831L	880831L	880901L	880901L	880901L
Sample Type	N1	LB1	N1	LB1	FD1	LB1	N1	LB1
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
BROMODICHLOROMETHANE	NR	< .5	NR	< .5	NR	< .5	NR	< .5
bis(2-CHLOROETHOXY) METHANE	NR	ND	NR	ND	NR	ND	NR	ND
bis(2-CHLOROISOPROPYL) ETHER	NR	< 10	NR	< 10	NR	< 10	NR	< 10
BROMOBENZENE	NR	< 5	NR	< 5	NR	< 5	NR	< 5
BROMOMETHANE	NR	< 6	NR	< 6	NR	< 6	NR	< 6
BENZENE	NR	NR	NR	NR	NR	NR	NR	NR
BENZYL CHLORIDE	NR	< 6.8	NR	< 6.8	NR	< 6.8	NR	< 6.8
2-CHLOROETHYL VINYL ETHER	NR	< .7	NR	< .7	NR	< .7	NR	< .7
CHLOROACETALDEHYDE	NR	ND	NR	ND	NR	ND	NR	ND
CHLOROBENZENE	NR	< 1.2	NR	< 1.2	NR	< 1.2	NR	< 1.2
4-CHLOROTOLUENE	NR	< 23	NR	< 23	NR	< 23	NR	< 23
CHLORODIBROMOMETHANE	NR	< .5	NR	< .5	NR	< .5	NR	< .5
CHLOROETHANE	NR	< 3	NR	< 3	NR	< 3	NR	< 3
1-CHLOROHEXANE	NR	< 5	NR	< 5	NR	< 5	NR	< 5
CHLOROMETHANE	NR	< .4	NR	< .4	NR	< .4	NR	< .4
CHLOROMETHYL METHYL ETHER	NR	ND	NR	ND	NR	ND	NR	ND
CARBON TETRACHLORIDE	NR	< .6	NR	< .6	NR	< .6	NR	< .6
DIBROMOMETHANE	NR	< 5	NR	< 5	NR	< 5	NR	< 5
1,1-DICHLOROETHANE	NR	< .4	NR	< .4	NR	< .4	.79	< .4
1,2-DICHLOROETHANE	NR	< .2	.57	< .2	.64	< .2	NR	< .2
1,2-DICHLOROBENZENE	NR	< .5	NR	< .5	NR	< .5	NR	< .5
1,3-DICHLOROBENZENE	NR	< 1	NR	< 1	NR	< 1	NR	< 1
1,4-DICHLOROBENZENE	NR	< .5	NR	< .5	NR	< .5	NR	< .5
1,1-DICHLOROETHENE	NR	< .7	NR	< .7	NR	< .7	NR	< .7
trans-1,2-DICHLOROETHENE	NR	< .5	NR	< .5	NR	< .5	NR	< .5
cis-1,3-DICHLOROPROPENE	NR	< 1	NR	< 1	NR	< 1	NR	< 1
trans-1,3-DICHLOROPROPENE	NR	< 2	NR	< 2	NR	< 2	NR	< 2
1,2-DICHLOROPROPANE	NR	< .2	NR	< .2	NR	< .2	NR	< .2

Volatiles in Groundwater (QA)
Elmendorf AFB, AK
Black & Veatch

Location ID	W-11	W-13				BW-1		BW-2
Sample ID	GN-88-0001	GN-88-0001	GN-88-0001	GN-88-0001D	GN-88-0001D	GN-88-0001	GN-88-0001	GN-88-0001
Sample Date	880822	880822	880822	880822	880822	880823	880823	880823
Lab Sample ID	001347-0002		001347-0001		001347-0001		001370-0007	
Lab Lot Control Number	880831L	880831L	880831L	880831L	880831L	880901L	880901L	880901L
Sample Type	N1	LB1	N1	LB1	FD1	LB1	N1	LB1
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
TRICHLOROFLUOROMETHANE	NR	< 5	NR	< 5	NR	< 5	NR	< 5
DICHLORODIFLUOROMETHANE	NR	< 9	NR	< 9	NR	< 9	NR	< 9
METHYLENE CHLORIDE	NR	< 2	NR	< 2	NR	< 2	NR	< 2
1,1,2,2-TETRACHLOROETHANE	NR	< .2	NR	< .2	NR	< .2	1.8	< .2
BROMOFORM	NR	< 1	NR	< 1	NR	< 1	NR	< 1
1,1,1,2-TETRACHLOROETHANE	NR	< 5	NR	< 5	NR	< 5	NR	< 5
1,1,1-TRICHLOROETHANE	NR	< .2	NR	< .2	NR	< .2	3.4	< .2
1,1,2-TRICHLOROETHANE	NR	< .1	NR	< .1	NR	< .1	NR	< .1
CHLOROFORM	NR	< .2	NR	< .2	NR	< .2	NR	< .2
1,2,3-TRICHLOROPROPANE	NR	< 5	NR	< 5	NR	< 5	NR	< 5
TETRACHLOROETHENE	NR	< .2	NR	< .2	NR	< .2	NR	< .2
TRICHLOROETHENE	45	< .6	5.4	< .6	5.5	< .6	1.4	< .6
VINYL CHLORIDE	NR	< .2	NR	< .2	NR	< .2	NR	< .2

NR = Not Reported

Volatiles in Groundwater (QA)
Elmendorf AFB, AK
Black & Veatch

Location ID	BW-52		NS3-03	BH-1	BH-3		BH-4	BH-5
Sample ID	GN-88-0001	GN-88-0001D	GN-88-0003	GN-88-0003	GN-88-0002	GN-88-0002	GN-88-0003	GN-88-0003
Sample Date	880823	880823	880823	880830	880830	880830	880830	880830
Lab Sample ID						001452-0004		
Lab Lot Control Number	880901L	880901L	880901L	880909L	880909L	880909L	880909L	880909L
Sample Type	LB1	LB1	LB1	LB1	LB1	N1	LB1	LB1
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
BROMODICHLOROMETHANE	< .5	< .5	< .5	< .5	< .5	NR	< .5	< .5
bis(2-CHLOROETHOXY) METHANE	ND	ND	ND	ND	ND	NR	ND	ND
bis(2-CHLOROISOPROPYL) ETHER	< 10	< 10	< 10	< 10	< 10	NR	< 10	< 10
BROMOBENZENE	< 5	< 5	< 5	< 5	< 5	NR	< 5	< 5
BROMOMETHANE	< 6	< 6	< 6	< 6	< 6	NR	< 6	< 6
BENZENE	NR	NR	NR	NR	NR	NR	NR	NR
BENZYL CHLORIDE	< 6.8	< 6.8	< 6.8	< 6.8	< 6.8	NR	< 6.8	< 6.8
2-CHLOROETHYL VINYL ETHER	< .7	< .7	< .7	< .7	< .7	NR	< .7	< .7
CHLOROACETALDEHYDE	ND	ND	ND	ND	ND	NR	ND	ND
CHLOROBENZENE	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	NR	< 1.2	< 1.2
4-CHLOROTOLUENE	< 23	< 23	< 23	< 23	< 23	NR	< 23	< 23
CHLORODIBROMOMETHANE	< .5	< .5	< .5	< .5	< .5	NR	< .5	< .5
CHLOROETHANE	< 3	< 3	< 3	< 3	< 3	NR	< 3	< 3
1-CHLOROHEXANE	< 5	< 5	< 5	< 5	< 5	NR	< 5	< 5
CHLOROMETHANE	< .4	< .4	< .4	< .4	< .4	NR	< .4	< .4
CHLOROMETHYL METHYL ETHER	ND	ND	ND	ND	ND	NR	ND	ND
CARBON TETRACHLORIDE	< .6	< .6	< .6	< .6	< .6	NR	< .6	< .6
DIBROMOMETHANE	< 5	< 5	< 5	< 5	< 5	NR	< 5	< 5
1,1-DICHLOROETHANE	< .4	< .4	< .4	< .4	< .4	NR	< .4	< .4
1,2-DICHLOROETHANE	< .2	< .2	< .2	< .2	< .2	NR	< .2	< .2
1,2-DICHLOROBENZENE	< .5	< .5	< .5	< .5	< .5	NR	< .5	< .5
1,3-DICHLOROBENZENE	< 1	< 1	< 1	< 1	< 1	NR	< 1	< 1
1,4-DICHLOROBENZENE	< .5	< .5	< .5	< .5	< .5	NR	< .5	< .5
1,1-DICHLOROETHENE	< .7	< .7	< .7	< .7	< .7	NR	< .7	< .7
trans-1,2-DICHLOROETHENE	< .5	< .5	< .5	< .5	< .5	NR	< .5	< .5
cis-1,3-DICHLOROPROPENE	< 1	< 1	< 1	< 1	< 1	NR	< 1	< 1
trans-1,3-DICHLOROPROPENE	< 2	< 2	< 2	< 2	< 2	NR	< 2	< 2
1,2-DICHLOROPROPANE	< .2	< .2	< .2	< .2	< .2	NR	< .2	< .2

Volatiles in Groundwater (QA)
Elmendorf AFB, AK
Black & Veatch

Location ID	BW-52		NS3-03	BH-1	BH-3		BH-4	BH-5
Sample ID	GN-88-0001	GN-88-0001D	GN-88-0003	GN-88-0003	GN-88-0002	GN-88-0002	GN-88-0003	GN-88-0003
Sample Date	880823	880823	880823	880830	880830	880830	880830	880830
Lab Sample ID						001452-0004		
Lab Lot Control Number	880901L	880901L	880901L	880909L	880909L	880909L	880909L	880909L
Sample Type	LB1	LB1	LB1	LB1	LB1	N1	LB1	LB1
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
TRICHLOROFLUOROMETHANE	< 5	< 5	< 5	< 5	< 5	NR	< 5	< 5
DICHLORODIFLUOROMETHANE	< 9	< 9	< 9	< 9	< 9	NR	< 9	< 9
METHYLENE CHLORIDE	< 2	< 2	< 2	< 2	< 2	7.6	< 2	< 2
1,1,2,2-TETRACHLOROETHANE	< .2	< .2	< .2	< .2	< .2	NR	< .2	< .2
BROMOFORM	< 1	< 1	< 1	< 1	< 1	NR	< 1	< 1
1,1,1,2-TETRACHLOROETHANE	< 5	< 5	< 5	< 5	< 5	NR	< 5	< 5
1,1,1-TRICHLOROETHANE	< .2	< .2	< .2	< .2	< .2	NR	< .2	< .2
1,1,2-TRICHLOROETHANE	< .1	< .1	< .1	< .1	< .1	NR	< .1	< .1
CHLOROFORM	< .2	< .2	< .2	< .2	< .2	NR	< .2	< .2
1,2,3-TRICHLOROPROPANE	< 5	< 5	< 5	< 5	< 5	NR	< 5	< 5
TETRACHLOROETHENE	< .2	< .2	< .2	< .2	< .2	NR	< .2	< .2
TRICHLOROETHENE	< .6	< .6	< .6	< .6	< .6	NR	< .6	< .6
VINYL CHLORIDE	< .2	< .2	< .2	< .6	< .6	NR	< .6	< .6

NR = Not Reported

Volatiles in Groundwater (QA)
Elmendorf AFB, AK
Black & Veatch

Location ID	**BH-6**
Sample ID	**GN-88-0003**
Sample Date	**880830**
Lab Sample ID	
Lab Lot Control Number	**880909L**
Sample Type	**LB1**
Units	**µg/l**
BROMODICHLOROMETHANE	< .5
bis(2-CHLOROETHOXY) METHANE	ND
bis(2-CHLOROISOPROPYL) ETHER	< 10
BROMOBENZENE	< 5
BROMOMETHANE	< 6
BENZENE	NR
BENZYL CHLORIDE	< 6.8
2-CHLOROETHYL VINYL ETHER	< .7
CHLOROACETALDEHYDE	ND
CHLOROBENZENE	< 1.2
4-CHLOROTOLUENE	< 23
CHLORODIBROMOMETHANE	< .5
CHLOROETHANE	< 3
1-CHLOROHEXANE	< 5
CHLOROMETHANE	< .4
CHLOROMETHYL METHYL ETHER	ND
CARBON TETRACHLORIDE	< .6
DIBROMOMETHANE	< 5
1,1-DICHLOROETHANE	< .4
1,2-DICHLOROETHANE	< .2
1,2-DICHLOROBENZENE	< .5
1,3-DICHLOROBENZENE	< 1
1,4-DICHLOROBENZENE	< .5
1,1-DICHLOROETHENE	< .7
trans-1,2-DICHLOROETHENE	< .5
cis-1,3-DICHLOROPROPENE	< 1
trans-1,3-DICHLOROPROPENE	< 2
1,2-DICHLOROPROPANE	< .2

Volatiles in Groundwater (QA)
Elmendorf AFB, AK
Black & Veatch

Location ID	**BH-6**
Sample ID	**GN-88-0003**
Sample Date	**880830**
Lab Sample ID	
Lab Lot Control Number	**880909L**
Sample Type	**LB1**
Units	**µg/l**
TRICHLOROFLUOROMETHANE	< 5
DICHLORODIFLUOROMETHANE	< 9
METHYLENE CHLORIDE	< 2
1,1,2,2-TETRACHLOROETHANE	< .2
BROMOFORM	< 1
1,1,1,2-TETRACHLOROETHANE	< 5
1,1,1-TRICHLOROETHANE	< .2
1,1,2-TRICHLOROETHANE	< .1
CHLOROFORM	< .2
1,2,3-TRICHLOROPROPANE	< 5
TETRACHLOROETHENE	< .2
TRICHLOROETHENE	< .6
VINYL CHLORIDE	< .6

NR = Not Reported

Volatiles in Groundwater (QA)(602)
Elmendorf AFB, AK
Black & Veatch

Location ID	GW-5/5A		
Sample ID	ELMNF-89-GW-5/5A-21	ELMNF-89-GW-5/5A-22	ELMNF-89-GW-5/5A-23
Sample Date	891113	891114	891114
Lab Sample ID	007465-0003	007483-0004	007483-0005
Lab Lot Control Number			
Sample Type	N1	N1	N1
Units	µg/l	µg/l	µg/l
1,2-DICHLOROBENZENE	< 2	< 2	< 2
1,3-DICHLOROBENZENE	< 2	< 2	< 2
1,4-DICHLOROBENZENE	< .5	< .5	< .5
BENZENE	< .7	< .7	< .7
CHLOROBENZENE	< 1	< 1	< 1
ETHYLBENZENE	< 1	< 1	< 1
M-XYLENE (1,3-DIMETHYLBENZENE)	NR	NR	NR
METHYL ETHYL KETONE (2-BUTANONE)	NR	NR	NR
METHYL ISOAMYL KETONE	NR	NR	NR
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	NR	NR	NR
TOLUENE	< 1	< 1	< 1
XYLENES, TOTAL	NR	NR	NR

NR = Not Reported

Volatiles in Groundwater (QA)(602)
Elmendorf AFB, AK
Black & Veatch

Location ID	GW-5/5A	GW-5/5A	
Sample ID	ELMNF-89-GW-5/5A-25	ELMNF-89-GW-5/5A-25	ELMNF-89-GW-5/5A-26
Sample Date	891113	891113	891113
Lab Sample ID	007465-0001	007465-0001	007483-0003
Lab Lot Control Number			
Sample Type	N1	N1	N1
Units	µg/l	µg/l	µg/l
1,2-DICHLOROBENZENE	< 500	< 500	< 2
1,3-DICHLOROBENZENE	< 500	< 500	< 2
1,4-DICHLOROBENZENE	< 120	< 120	< .5
BENZENE	< 180	< 180	< .7
CHLOROBENZENE	< 250	< 250	< 1
ETHYLBENZENE	1200	1100	< 1
M-XYLENE (1,3-DIMETHYLBENZENE)	NR	NR	NR
METHYL ETHYL KETONE (2-BUTANONE)	NR	NR	NR
METHYL ISOAMYL KETONE	NR	NR	NR
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	NR	NR	NR
TOLUENE	< 250	< 250	< 1
XYLENES, TOTAL	NR	NR	NR

NR = Not Reported

Volatiles in Groundwater (QA)(602)
Elmendorf AFB, AK
Black & Veatch

Location ID	GW-5/5A		
Sample ID	ELMNF-89-GW-5/5A-ACB	ELMNF-89-GW-5/5A-EB1	ELMNF-89-GW-5/5A-EB2
Sample Date	891113	891113	891113
Lab Sample ID	007465-0004	007483-0001	007483-0002
Lab Lot Control Number			
Sample Type	AB1	EB1	EB2
Units	µg/l	µg/l	µg/l
1,2-DICHLOROBENZENE	< 2	< 2	< 2
1,3-DICHLOROBENZENE	< 2	< 2	< 2
1,4-DICHLOROBENZENE	< .5	< .5	< .5
BENZENE	< .7	< .7	< .7
CHLOROBENZENE	< 1	< 1	< 1
ETHYLBENZENE	< 1	< 1	< 1
M-XYLENE (1,3-DIMETHYLBENZENE)	NR	NR	NR
METHYL ETHYL KETONE (2-BUTANONE)	NR	NR	NR
METHYL ISOAMYL KETONE	NR	NR	NR
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	NR	NR	NR
TOLUENE	< 1	< 1	< 1
XYLENES, TOTAL	NR	NR	NR

NR = Not Reported

Volatiles in Groundwater (QA)(602)
Elmendorf AFB, AK
Black & Veatch

Location ID	GW-5/5A	GWX-5/5A		SP5/5A-01
Sample ID	ELMNF-89-GW-5/5A-TB	ELMNF-89-GWX-5/5A-25	ELMNF-89-GWX-5/5A-25	GN-88-0003
Sample Date	891113	891113	891113	880804
Lab Sample ID	007465-0005	007465-0002	007465-0002	
Lab Lot Control Number				880812L
Sample Type	TB1	N1	N1	LB1
Units	µg/l	µg/l	µg/l	µg/l
1,2-DICHLOROBENZENE	< 2	< 500	< 500	< 2
1,3-DICHLOROBENZENE	< 2	< 500	< 500	< 2
1,4-DICHLOROBENZENE	< .5	< 120	< 120	< .5
BENZENE	< .7	< 180	< 180	< .7
CHLOROBENZENE	< 1	< 250	< 250	< 1
ETHYLBENZENE	< 1	1300	1200	< 1
M-XYLENE (1,3-DIMETHYLBENZENE)	NR	NR	NR	< 2
METHYL ETHYL KETONE (2-BUTANONE)	NR	NR	NR	NR
METHYL ISOAMYL KETONE	NR	NR	NR	NR
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	NR	NR	NR	NR
TOLUENE	< 1	< 250	< 250	< 1
XYLENES, TOTAL	NR	NR	NR	< 2

NR = Not Reported

Volatiles in Groundwater (QA)(602)
Elmendorf AFB, AK
Black & Veatch

Location ID	SP5/5A-01	SP5/5A-07	SP5/5A-07	SP5/5A-10		SP5/5A-15
Sample ID	GN-88-0003	GN-88-0003	GN-88-0003	GN-88-0003	GN-88-0003	GN-88-0004
Sample Date	880804	880805	880805	880805	880805	880805
Lab Sample ID	001115-0001		001121-0005		001121-0001	
Lab Lot Control Number	880812L	880812W	880812W	880812W	880812W	880812W
Sample Type	N1	LB1	N1	LB1	N1	LB1
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,2-DICHLOROBENZENE	NR	< 2	NR	< 2	NR	< 2
1,3-DICHLOROBENZENE	NR	< 2	NR	< 2	NR	< 2
1,4-DICHLOROBENZENE	NR	< .5	NR	< .5	NR	< .5
BENZENE	4.4	< .7	4200	< .7	28	< .7
CHLOROBENZENE	NR	< 1	NR	< 1	NR	< 1
ETHYLBENZENE	75	< 1	1000	< 1	12	< 1
M-XYLENE (1,3-DIMETHYLBENZENE)	NR	< 2	1200	< 2	10	< 2
METHYL ETHYL KETONE (2-BUTANONE)	NR	NR	NR	NR	NR	NR
METHYL ISOAMYL KETONE	NR	NR	NR	NR	NR	NR
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	NR	NR	NR	NR	NR	NR
TOLUENE	32	< 1	3500	< 1	NR	< 1
XYLENES, TOTAL	170	< 2	1800	< 2	18	< 2

NR = Not Reported

Volatiles in Groundwater (QA)(602)
Elmendorf AFB, AK
Black & Veatch

Location ID	SP5/5A-15	SP5/5A-16	SP5/5A-16	SP5/5A-19		GW-1C
Sample ID	GN-88-0004	GN-88-0004	GN-88-0004	GN-88-0004	GN-88-0004	GN-88-0001
Sample Date	880805	880805	880805	880805	880805	880809
Lab Sample ID	001121-0006		001121-0007		001121-0004	
Lab Lot Control Number	880812W	880812W	880812W	880812W	880812W	880819L
Sample Type	N1	LB1	N1	LB1	N1	LB1
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,2-DICHLOROBENZENE	NR	< 2	NR	< 2	NR	< 1
1,3-DICHLOROBENZENE	NR	< 2	NR	< 2	NR	< 1.2
1,4-DICHLOROBENZENE	NR	< .5	NR	< .5	NR	< .5
BENZENE	NR	< .7	21000	< .7	270	< .7
CHLOROBENZENE	NR	< 1	NR	< 1	NR	< .2
ETHYLBENZENE	2.5	< 1	2700	< 1	690	< 1
M-XYLENE (1,3-DIMETHYLBENZENE)	NR	< 2	6200	< 2	530	< 2
METHYL ETHYL KETONE (2-BUTANONE)	NR	NR	NR	NR	NR	NR
METHYL ISOAMYL KETONE	NR	NR	NR	NR	NR	NR
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	NR	NR	NR	NR	NR	NR
TOLUENE	NR	< 1	26000	< 1	NR	< 1
XYLENES, TOTAL	NR	< 2	4700	< 2	990	< 2

NR = Not Reported

Volatiles in Groundwater (QA)(602)
Elmendorf AFB, AK
Black & Veatch

Location ID	GW-2B		W-1	D13-02	D13-03	GW-4A
Sample ID	GN-88-0001	GN-88-0001	GN-88-0001	GN-88-0003	GN-88-0003	GN-88-0001
Sample Date	880809	880809	880809	880808	880809	880812
Lab Sample ID		001240-0007				
Lab Lot Control Number	880819L	880819L	880819L	880819P	880819P	880819P
Sample Type	LB1	N1	LB1	LB1	LB1	LB1
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,2-DICHLOROBENZENE	< 1	NR	< 1	< 2	< 2	< 2
1,3-DICHLOROBENZENE	< 1.2	NR	< 1.2	< 2	< 2	< 2
1,4-DICHLOROBENZENE	< .5	NR	< .5	< .5	< .5	< .5
BENZENE	< .7	NR	< .7	< .7	< .7	< .7
CHLOROBENZENE	< .2	NR	< .2	< 1	< 1	< 1
ETHYLBENZENE	< 1	NR	< 1	< 1	< 1	< 1
M-XYLENE (1,3-DIMETHYLBENZENE)	< 2	NR	< 2	< 2	< 2	< 2
METHYL ETHYL KETONE (2-BUTANONE)	NR	NR	NR	NR	NR	NR
METHYL ISOAMYL KETONE	NR	NR	NR	NR	NR	NR
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	NR	NR	NR	NR	NR	NR
TOLUENE	< 1	1	< 1	< 1	< 1	< 1
XYLENES, TOTAL	< 2	NR	< 2	< 2	< 2	< 2

NR = Not Reported

Volatiles in Groundwater (QA)(602)
Elmendorf AFB, AK
Black & Veatch

Location ID	GW-4A	NS2-01	NS2-02	W-14	GW-2C	GW-6A
Sample ID	GN-88-0001	GN-88-0003	GN-88-0003	GN-88-0001	GN-88-0001	GN-88-0001
Sample Date	880812	880809	880808	880812	880810	880810
Lab Sample ID	001229-0002					
Lab Lot Control Number	880819P	880819P	880819P	880819P	880820P	880820P
Sample Type	N1	LB1	LB1	LB1	LB1	LB1
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,2-DICHLOROBENZENE	NR	< 2	< 2	< 2	< 2	< 2
1,3-DICHLOROBENZENE	NR	< 2	< 2	< 2	< 2	< 2
1,4-DICHLOROBENZENE	NR	< .5	< .5	< .5	< .5	< .5
BENZENE	16	< .7	< .7	< .7	< .7	< .7
CHLOROBENZENE	NR	< 1	< 1	< 1	< 1	< 1
ETHYLBENZENE	NR	< 1	< 1	< 1	< 1	< 1
M-XYLENE (1,3-DIMETHYLBENZENE)	NR	< 2	< 2	< 2	< 2	< 2
METHYL ETHYL KETONE (2-BUTANONE)	NR	NR	NR	NR	NR	NR
METHYL ISOAMYL KETONE	NR	NR	NR	NR	NR	NR
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	NR	NR	NR	NR	NR	NR
TOLUENE	NR	< 1	< 1	< 1	< 1	< 1
XYLENES, TOTAL	NR	< 2	< 2	< 2	< 2	< 2

NR = Not Reported

Volatiles in Groundwater (QA)(602)
Elmendorf AFB, AK
Black & Veatch

Location ID	GW-6A	SP2/6-04	W-5		W-6	GW-3A
Sample ID	GN-88-0001	GN-88-0002	GN-88-0001	GN-88-0001D	GN-88-0001	GN-88-0001
Sample Date	880810	880813	880810	880810	880810	880812
Lab Sample ID	001206-0009					
Lab Lot Control Number	880820P	880820P	880820P	880820P	880820P	880820W
Sample Type	N1	LB1	LB1	LB1	LB1	LB1
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,2-DICHLOROBENZENE	NR	< 2	< 2	< 2	< 2	< 2
1,3-DICHLOROBENZENE	NR	< 2	< 2	< 2	< 2	< 2
1,4-DICHLOROBENZENE	NR	< .5	< .5	< .5	< .5	< .5
BENZENE	NR	< .7	< .7	< .7	< .7	< .7
CHLOROBENZENE	NR	< 1	< 1	< 1	< 1	< 1
ETHYLBENZENE	30	< 1	< 1	< 1	< 1	< 1
M-XYLENE (1,3-DIMETHYLBENZENE)	19	< 2	< 2	< 2	< 2	< 2
METHYL ETHYL KETONE (2-BUTANONE)	NR	NR	NR	NR	NR	NR
METHYL ISOAMYL KETONE	NR	NR	NR	NR	NR	NR
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	NR	NR	NR	NR	NR	NR
TOLUENE	4.5	< 1	< 1	< 1	< 1	< 1
XYLENES, TOTAL	5.8	< 2	< 2	< 2	< 2	< 2

NR = Not Reported

Volatiles in Groundwater (QA)(602)
Elmendorf AFB, AK
Black & Veatch

Location ID	SP2/6-03		SP4-01		W-9	IS1-01
Sample ID	GN-88-0002	GN-88-0002D	GN-88-0003	GN-88-0003	GN-88-0001	GN-88-0003
Sample Date	880813	880813	880812	880812	880812	880818
Lab Sample ID				001229-0014		
Lab Lot Control Number	880820W	880820W	880820W	880820W	880820W	880829P
Sample Type	LB1	LB1	LB1	N1	LB1	LB1
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,2-DICHLOROBENZENE	< 2	< 2	< 2	NR	< 2	< 2
1,3-DICHLOROBENZENE	< 2	< 2	< 2	NR	< 2	< 2
1,4-DICHLOROBENZENE	< .5	< .5	< .5	NR	< .5	< .5
BENZENE	< .7	< .7	< .7	27	< .7	< .7
CHLOROBENZENE	< 1	< 1	< 1	NR	< 1	< 1
ETHYLBENZENE	< 1	< 1	< 1	NR	< 1	< 1
M-XYLENE (1,3-DIMETHYLBENZENE)	< 2	< 2	< 2	NR	< 2	< 2
METHYL ETHYL KETONE (2-BUTANONE)	NR	NR	NR	NR	NR	< 5
METHYL ISOAMYL KETONE	NR	NR	NR	NR	NR	NR
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	NR	NR	NR	NR	NR	< 5
TOLUENE	< 1	< 1	< 1	1.1	< 1	< 1
XYLENES, TOTAL	< 2	< 2	< 2	NR	< 2	< 2

NR = Not Reported

Volatiles in Groundwater (QA)(602)
Elmendorf AFB, AK
Black & Veatch

Location ID	IS1-01	IS3-01	IS4-01	IS5-01	IS6-01	IS7-01	IS8-01
Sample ID	GN-88-0003	GN-88-0003	GN-88-0003	GN-88-0003	GN-88-0003	GN-88-0003	GN-88-0003
Sample Date	880817	880818	880818	880817	880817	880817	880817
Lab Sample ID							
Lab Lot Control Number	880829P	880829P	880829P	880829P	880829P	880829P	880829P
Sample Type	LB1	LB1	LB1	LB1	LB1	LB1	LB1
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,2-DICHLOROBENZENE	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,3-DICHLOROBENZENE	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,4-DICHLOROBENZENE	< .5	< .5	< .5	< .5	< .5	< .5	< .5
BENZENE	< .7	< .7	< .7	< .7	< .7	< .7	< .7
CHLOROBENZENE	< 1	< 1	< 1	< 1	< 1	< 1	< 1
ETHYLBENZENE	< 1	< 1	< 1	< 1	< 1	< 1	< 1
M-XYLENE (1,3-DIMETHYLBENZENE)	< 2	< 2	< 2	< 2	< 2	< 2	< 2
METHYL ETHYL KETONE (2-BUTANONE)	< 5	< 5	< 5	< 5	< 5	< 5	< 5
METHYL ISOAMYL KETONE	NR	NR	NR	NR	NR	NR	NR
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	< 5	< 5	< 5	< 5	< 5	< 5	< 5
TOLUENE	< 1	< 1	< 1	< 1	< 1	< 1	< 1
XYLENES, TOTAL	< 2	< 2	< 2	< 2	< 2	< 2	< 2

NR = Not Reported

Volatiles in Groundwater (QA)(602)
Elmendorf AFB, AK
Black & Veatch

Location ID	IS8-01			W-18		W-19
Sample ID	GN-88-0003	GN-88-0003D	GN-88-0003D	GN-88-0001	GN-88-0001	GN-88-0001
Sample Date	880817	880817	880817	880818	880818	880818
Lab Sample ID	001302-0001		001302-0001		001318-0009	
Lab Lot Control Number	880829P	880829P	880829P	880829P	880829P	880829P
Sample Type	N1	LB1	FD1	LB1	N1	LB1
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,2-DICHLOROBENZENE	NR	< 2	NR	< 2	NR	< 2
1,3-DICHLOROBENZENE	NR	< 2	NR	< 2	NR	< 2
1,4-DICHLOROBENZENE	NR	< .5	NR	< .5	NR	< .5
BENZENE	NR	< .7	NR	< .7	35	< .7
CHLOROBENZENE	NR	< 1	NR	< 1	NR	< 1
ETHYLBENZENE	NR	< 1	NR	< 1	250	< 1
M-XYLENE (1,3-DIMETHYLBENZENE)	NR	< 2	NR	< 2	530	< 2
METHYL ETHYL KETONE (2-BUTANONE)	NR	< 5	NR	< 5	NR	< 5
METHYL ISOAMYL KETONE	NR	NR	NR	NR	NR	NR
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	14	< 5	14	< 5	NR	< 5
TOLUENE	11	< 1	11	< 1	460	< 1
XYLENES, TOTAL	NR	< 2	NR	< 2	520	< 2

NR = Not Reported

Volatiles in Groundwater (QA)(602)
Elmendorf AFB, AK
Black & Veatch

Location ID	NS3-02	SP15-02		W-11		W-13
Sample ID	GN-88-0003	GN-88-0003	GN-88-0003D	GN-88-0001	GN-88-0001	GN-88-0001
Sample Date	880823	880822	880822	880822	880822	880822
Lab Sample ID					001347-0002	
Lab Lot Control Number	880831L	880831L	880831L	880831L	880831L	880831L
Sample Type	LB1	LB1	LB1	LB1	N1	LB1
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,2-DICHLOROBENZENE	< 2	< 2	< 2	< 2	NR	< 2
1,3-DICHLOROBENZENE	< 2	< 2	< 2	< 2	NR	< 2
1,4-DICHLOROBENZENE	< .5	< .5	< .5	< .5	NR	< .5
BENZENE	< .7	< .7	< .7	< .7	1.3	< .7
CHLOROBENZENE	< 1	< 1	< 1	< 1	NR	< 1
ETHYLBENZENE	< 1	< 1	< 1	< 1	NR	< 1
M-XYLENE (1,3-DIMETHYLBENZENE)	< 2	< 2	< 2	< 2	NR	< 2
METHYL ETHYL KETONE (2-BUTANONE)	ND	ND	ND	ND	NR	ND
METHYL ISOAMYL KETONE	ND	ND	ND	ND	NR	ND
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	NR	NR	NR	NR	NR	NR
TOLUENE	< 1	< 1	< 1	< 1	NR	< 1
XYLENES, TOTAL	< 2	< 2	< 2	< 2	NR	< 2

NR = Not Reported

Volatiles in Groundwater (QA)(602)
Elmendorf AFB, AK
Black & Veatch

Location ID	W-13	SP1-01		SP15-01		GW-2A
Sample ID	GN-88-0001D	GN-88-0003	GN-88-0003	GN-88-0003	GN-88-0003	GN-88-0001
Sample Date	880822	880822	880822	880822	880822	880829
Lab Sample ID			001347-0010		001347-0005	
Lab Lot Control Number	880831L	880831P	880831P	880831P	880831P	880908L
Sample Type	LB1	LB1	N1	LB1	N1	LB1
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,2-DICHLOROBENZENE	< 2	< 2	NR	< 2	NR	< 2
1,3-DICHLOROBENZENE	< 2	< 2	NR	< 2	NR	< 2
1,4-DICHLOROBENZENE	< .5	< .5	NR	< .5	NR	< .5
BENZENE	< .7	< .7	13	< .7	170	< .7
CHLOROBENZENE	< 1	< 1	NR	< 1	NR	< 1
ETHYLBENZENE	< 1	< 1	66	< 1	100	< 1
M-XYLENE (1,3-DIMETHYLBENZENE)	< 2	< 2	57	< 2	210	< 2
METHYL ETHYL KETONE (2-BUTANONE)	ND	NR	NR	NR	NR	NR
METHYL ISOAMYL KETONE	ND	NR	NR	NR	NR	NR
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	NR	NR	NR	NR	NR	NR
TOLUENE	< 1	< 1	8.8	< 1	300	< 1
XYLENES, TOTAL	< 2	< 2	48	< 2	200	< 2

NR = Not Reported

Volatiles in Groundwater (QA)(602)
Elmendorf AFB, AK
Black & Veatch

Location ID	SP4-03	
Sample ID	GN-88-0003	GN-88-0003
Sample Date	880829	880829
Lab Sample ID		001434-0007
Lab Lot Control Number	880908L	880908L
Sample Type	LB1	N1
Units	µg/l	µg/l
1,2-DICHLOROBENZENE	< 2	NR
1,3-DICHLOROBENZENE	< 2	NR
1,4-DICHLOROBENZENE	< .5	NR
BENZENE	< .7	NR
CHLOROBENZENE	< 1	NR
ETHYLBENZENE	< 1	3
M-XYLENE (1,3-DIMETHYLBENZENE)	< 2	NR
METHYL ETHYL KETONE (2-BUTANONE)	NR	NR
METHYL ISOAMYL KETONE	NR	NR
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	NR	NR
TOLUENE	< 1	6.5
XYLENES, TOTAL	< 2	NR

NR = Not Reported

Semivolatiles in Groundwater
Elmendorf AFB, AK
Black & Veatch

Location ID	GW-1C		GW-2C	GW-6A	W-1	
Sample ID	GN-88-0001	GN-88-0001	GN-88-0001	GN-88-0001	GN-88-0001	GN-88-0001
Sample Date	880809	880809	880810	880810	880809	880809
Lab Sample ID		001240-0005				001240-0006
Laboratory Lot Control Number	880816A	880816A	880816A	880816A	880816A	880816A
Sample Type	LB1	N1	LB1	LB1	LB1	N1
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ACENAPHTHENE	< 10	NR	< 10	< 10	< 10	NR
ACENAPTHYLENE	< 10	NR	< 10	< 10	< 10	NR
ACETOPHENONE	< 50	NR	< 50	< 50	< 50	NR
4-AMINOBIPHENYL (4-BIPHENYLAMINE)	< 50	NR	< 50	< 50	< 50	NR
1-NAPHTHYLAMINE	< 50	NR	< 50	< 50	< 50	NR
2-AMINONAPHTHALENE (BETA NAPHTHYLAMINE)	< 50	NR	< 50	< 50	< 50	NR
ANILINE (PHENYLAMINE, AMINOBENZENE)	< 50	NR	< 50	< 50	< 50	NR
ANTHRACENE	< 10	NR	< 10	< 10	< 10	NR
BENZYL BUTYL PHTHALATE	< 10	NR	< 10	< 10	< 10	NR
bis(2-CHLOROETHOXY) METHANE	< 10	NR	< 10	< 10	< 10	NR
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	< 10	NR	< 10	< 10	< 10	NR
bis(2-CHLOROISOPROPYL) ETHER	< 10	NR	< 10	< 10	< 10	NR
bis(2-ETHYLHEXYL) PHTHALATE	< 10	13	< 10	< 10	< 10	23
4-BROMOPHENYL PHENYL ETHER	< 10	NR	< 10	< 10	< 10	NR
BENZO(a)ANTHRACENE	< 10	NR	< 10	< 10	< 10	NR
BENZOIC ACID	< 50	NR	< 50	< 50	< 50	NR
BENZO(a)PYRENE	< 10	NR	< 10	< 10	< 10	NR
BENZO(b)FLUORANTHENE	< 10	NR	< 10	< 10	< 10	NR
BENZIDINE	< 170	NR	< 170	< 170	< 170	NR
BENZO(g,h,i)PERYLENE	< 10	NR	< 10	< 10	< 10	NR
BENZO(k)FLUORANTHENE	< 10	NR	< 10	< 10	< 10	NR
BENZYL ALCOHOL	< 20	NR	< 20	< 20	< 20	NR
1,2,4,5-TETRACHLOROBENZENE	< 50	NR	< 50	< 50	< 50	NR
4-CHLORO-3-METHYLPHENOL	< 10	NR	< 10	< 10	< 10	NR
CHRYSENE	< 10	NR	< 10	< 10	< 10	NR

Semivolatiles in Groundwater
Elmendorf AFB, AK
Black & Veatch

Location ID	GW-1C		GW-2C	GW-6A	W-1	
Sample ID	GN-88-0001	GN-88-0001	GN-88-0001	GN-88-0001	GN-88-0001	GN-88-0001
Sample Date	880809	880809	880810	880810	880809	880809
Lab Sample ID		001240-0005				001240-0006
Laboratory Lot Control Number	880816A	880816A	880816A	880816A	880816A	880816A
Sample Type	LB1	N1	LB1	LB1	LB1	N1
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
4-CHLOROANILINE	< 20	NR	< 20	< 20	< 20	NR
1-CHLORONAPHTHALENE	< 50	NR	< 50	< 50	< 50	NR
2-CHLOROPHENOL	< 10	NR	< 10	< 10	< 10	NR
2-CHLORONAPHTHALENE	< 10	NR	< 10	< 10	< 10	NR
4-CHLOROPHENYL PHENYL ETHER	< 10	NR	< 10	< 10	< 10	NR
DIBENZ(a,h)ANTHRACENE	< 10	NR	< 10	< 10	< 10	NR
DIBENZ(a,j)ACRIDINE	ND	NR	ND	ND	ND	NR
DIBENZOFURAN	< 10	NR	< 10	< 10	< 10	NR
3,3'-DICHLOROBENZIDINE	< 30	NR	< 30	< 30	< 30	NR
1,2-DICHLOROBENZENE	< 5	NR	< 5	< 5	< 5	NR
1,3-DICHLOROBENZENE	< 5	NR	< 5	< 5	< 5	NR
1,4-DICHLOROBENZENE	< 5	NR	< 5	< 5	< 5	NR
2,4-DICHLOROPHENOL	< 10	NR	< 10	< 10	< 10	NR
DIETHYL PHTHALATE	< 20	NR	< 20	< 20	< 20	NR
7,12-DIMETHYLBENZ(a)ANTHRACENE	< 50	NR	< 50	< 50	< 50	NR
2,4-DIMETHYLPHENOL	< 10	NR	< 10	< 10	< 10	NR
DIMETHYL PHTHALATE	< 10	NR	< 10	< 10	< 10	NR
4,6-DINITRO-2-METHYLPHENOL	< 50	NR	< 50	< 50	< 50	NR
DI-n-BUTYL PHTHALATE	< 10	NR	< 10	< 10	< 10	NR
DI-n-OCTYL PHTHALATE (bis-(2-ETHYLHEXYL)PHTHALATE)	< 10	NR	< 10	< 10	< 10	NR
2,4-DINITROPHENOL	< 50	NR	< 50	< 50	< 50	NR
2,4-DINITROTOLUENE	< 10	NR	< 10	< 10	< 10	NR
2,6-DINITROTOLUENE	< 10	NR	< 10	< 10	< 10	NR
DIPHENYLAMINE	< 50	NR	< 50	< 50	< 50	NR
1,2-DIPHENYLHYDRAZINE	< 50	NR	< 50	< 50	< 50	NR

Semivolatiles in Groundwater
Elmendorf AFB, AK
Black & Veatch

Location ID	GW-1C		GW-2C	GW-6A	W-1	
Sample ID	GN-88-0001	GN-88-0001	GN-88-0001	GN-88-0001	GN-88-0001	GN-88-0001
Sample Date	880809	880809	880810	880810	880809	880809
Lab Sample ID		001240-0005				001240-0006
Laboratory Lot Control Number	880816A	880816A	880816A	880816A	880816A	880816A
Sample Type	LB1	N1	LB1	LB1	LB1	N1
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ETHYL METHANESULFONATE	< 50	NR	< 50	< 50	< 50	NR
FLUORENE	< 10	NR	< 10	< 10	< 10	NR
FLUORANTHENE	< 10	NR	< 10	< 10	< 10	NR
HEXACHLOROBUTADIENE	< 10	NR	< 10	< 10	< 10	NR
HEXACHLOROCYCLOPENTADIENE	NR	NR	NR	NR	NR	NR
HEXACHLOROBENZENE	< 10	NR	< 10	< 10	< 10	NR
HEXACHLOROETHANE	< 10	NR	< 10	< 10	< 10	NR
INDENO(1,2,3-c,d)PYRENE	< 10	NR	< 10	< 10	< 10	NR
ISOPHORONE	< 10	NR	< 10	< 10	< 10	NR
3-METHYLCHOLANTHRENE	< 50	NR	< 50	< 50	< 50	NR
2-METHYLPHENOL (o-CRESOL)	< 10	NR	< 10	< 10	< 10	NR
4-METHYLPHENOL (p-CRESOL)	< 10	NR	< 10	< 10	< 10	NR
METHYL METHANESULFONATE	< 50	NR	< 50	< 50	< 50	NR
ALPHA, ALPHA DIMETHYLPHENETHYLAMINE	ND	NR	ND	ND	ND	NR
2-METHYLNAPHTHALENE	< 10	NR	< 10	< 10	< 10	NR
NAPHTHALENE	< 10	NR	< 10	< 10	< 10	NR
N-NITROSODI-n-BUTYLAMINE	< 50	NR	< 50	< 50	< 50	NR
N-NITROSODIMETHYLAMINE	< 50	NR	< 50	< 50	< 50	NR
N-NITROSODIPHENYLAMINE	< 10	NR	< 10	< 10	< 10	NR
N-NITROSOPIPERIDINE	< 50	NR	< 50	< 50	< 50	NR
N-NITROSODI-n-PROPYLAMINE	< 10	NR	< 10	< 10	< 10	NR
2-NITROANILINE	< 50	NR	< 50	< 50	< 50	NR
3-NITROANILINE	< 50	NR	< 50	< 50	< 50	NR
4-NITROANILINE	< 58	NR	< 58	< 58	< 58	NR
NITROBENZENE	< 10	NR	< 10	< 10	< 10	NR

Semivolatiles in Groundwater
Elmendorf AFB, AK
Black & Veatch

Location ID	GW-1C		GW-2C	GW-6A	W-1	
Sample ID	GN-88-0001	GN-88-0001	GN-88-0001	GN-88-0001	GN-88-0001	GN-88-0001
Sample Date	880809	880809	880810	880810	880809	880809
Lab Sample ID		001240-0005				001240-0006
Laboratory Lot Control Number	880816A	880816A	880816A	880816A	880816A	880816A
Sample Type	LB1	N1	LB1	LB1	LB1	N1
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
2-NITROPHENOL	< 10	NR	< 10	< 10	< 10	NR
4-NITROPHENOL	< 50	NR	< 50	< 50	< 50	NR
PENTACHLOROPHENOL	< 30	NR	< 30	< 30	< 30	NR
p-DIMETHYLAMINOAZOBENZENE	< 50	NR	< 50	< 50	< 50	NR
PENTACHLOROBENZENE	< 50	NR	< 50	< 50	< 50	NR
PENTACHLORONITROBENZENE	< 50	NR	< 50	< 50	< 50	NR
PHENANTHRENE	< 10	NR	< 10	< 10	< 10	NR
PHENOL	< 10	NR	< 10	< 10	< 10	NR
PHENACETIN	< 50	NR	< 50	< 50	< 50	NR
2-PICOLINE (ALPHA-PICOLINE)	< 50	NR	< 50	< 50	< 50	NR
PRONAMIDE	< 50	NR	< 50	< 50	< 50	NR
PYRENE	< 10	NR	< 10	< 10	< 10	NR
1,2,4-TRICHLOROBENZENE	< 10	NR	< 10	< 10	< 10	NR
2,3,4,6-TETRACHLOROPHENOL	< 50	NR	< 50	< 50	< 50	NR
2,4,5-TRICHLOROPHENOL	< 50	NR	< 50	< 50	< 50	NR
2,4,6-TRICHLOROPHENOL	< 10	NR	< 10	< 10	< 10	NR

NR = Not Reported
ND = Not detected, detection limit not available

Semivolatiles in Groundwater
Elmendorf AFB, AK
Black & Veatch

Location ID	W-5		W-6	IS1-01	IS3-01	IS4-01
Sample ID	GN-88-0001	GN-88-0001D	GN-88-0001	GN-88-0003	GN-88-0003	GN-88-0003
Sample Date	880810	880810	880810	880818	880818	880818
Lab Sample ID						
Laboratory Lot Control Number	880816A	880816A	880816A	880823A	880823A	880823A
Sample Type	LB1	LB1	LB1	LB1	LB1	LB1
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ACENAPHTHENE	< 10	< 10	< 10	< 10	< 10	< 10
ACENAPTHYLENE	< 10	< 10	< 10	< 10	< 10	< 10
ACETOPHENONE	< 50	< 50	< 50	< 50	< 50	< 50
4-AMINOBIPHENYL (4-BIPHENYLAMINE)	< 50	< 50	< 50	< 50	< 50	< 50
1-NAPHTHYLAMINE	< 50	< 50	< 50	< 50	< 50	< 50
2-AMINONAPHTHALENE (BETA NAPHTHYLAMINE)	< 50	< 50	< 50	< 50	< 50	< 50
ANILINE (PHENYLAMINE, AMINOBENZENE)	< 50	< 50	< 50	< 50	< 50	< 50
ANTHRACENE	< 10	< 10	< 10	< 10	< 10	< 10
BENZYL BUTYL PHTHALATE	< 10	< 10	< 10	< 10	< 10	< 10
bis(2-CHLOROETHOXY) METHANE	< 10	< 10	< 10	< 10	< 10	< 10
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	< 10	< 10	< 10	< 10	< 10	< 10
bis(2-CHLOROISOPROPYL) ETHER	< 10	< 10	< 10	< 10	< 10	< 10
bis(2-ETHYLHEXYL) PHTHALATE	< 10	< 10	< 10	< 10	< 10	< 10
4-BROMOPHENYL PHENYL ETHER	< 10	< 10	< 10	< 10	< 10	< 10
BENZO(a)ANTHRACENE	< 10	< 10	< 10	< 10	< 10	< 10
BENZOIC ACID	< 50	< 50	< 50	< 50	< 50	< 50
BENZO(a)PYRENE	< 10	< 10	< 10	< 10	< 10	< 10
BENZO(b)FLUORANTHENE	< 10	< 10	< 10	< 10	< 10	< 10
BENZIDINE	< 170	< 170	< 170	< 170	< 170	< 170
BENZO(g,h,i)PERYLENE	< 10	< 10	< 10	< 10	< 10	< 10
BENZO(k)FLUORANTHENE	< 10	< 10	< 10	< 10	< 10	< 10
BENZYL ALCOHOL	< 20	< 20	< 20	< 20	< 20	< 20
1,2,4,5-TETRACHLOROBENZENE	< 50	< 50	< 50	< 50	< 50	< 50
4-CHLORO-3-METHYLPHENOL	< 10	< 10	< 10	< 10	< 10	< 10
CHRYSENE	< 10	< 10	< 10	< 10	< 10	< 10

Semivolatiles in Groundwater
Elmendorf AFB, AK
Black & Veatch

Location ID	W-5		W-6	IS1-01	IS3-01	IS4-01
Sample ID	GN-88-0001	GN-88-0001D	GN-88-0001	GN-88-0003	GN-88-0003	GN-88-0003
Sample Date	880810	880810	880810	880818	880818	880818
Lab Sample ID						
Laboratory Lot Control Number	880816A	880816A	880816A	880823A	880823A	880823A
Sample Type	LB1	LB1	LB1	LB1	LB1	LB1
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
4-CHLOROANILINE	< 20	< 20	< 20	< 20	< 20	< 20
1-CHLORONAPHTHALENE	< 50	< 50	< 50	< 50	< 50	< 50
2-CHLOROPHENOL	< 10	< 10	< 10	< 10	< 10	< 10
2-CHLORONAPHTHALENE	< 10	< 10	< 10	< 10	< 10	< 10
4-CHLOROPHENYL PHENYL ETHER	< 10	< 10	< 10	< 10	< 10	< 10
DIBENZ(a,h)ANTHRACENE	< 10	< 10	< 10	< 10	< 10	< 10
DIBENZ(a,j)ACRIDINE	ND	ND	ND	ND	ND	ND
DIBENZOFURAN	< 10	< 10	< 10	< 10	< 10	< 10
3,3'-DICHLOROBENZIDINE	< 30	< 30	< 30	< 30	< 30	< 30
1,2-DICHLOROBENZENE	< 5	< 5	< 5	< 5	< 5	< 5
1,3-DICHLOROBENZENE	< 5	< 5	< 5	< 5	< 5	< 5
1,4-DICHLOROBENZENE	< 5	< 5	< 5	< 5	< 5	< 5
2,4-DICHLOROPHENOL	< 10	< 10	< 10	< 10	< 10	< 10
DIETHYL PHTHALATE	< 20	< 20	< 20	< 20	< 20	< 20
7,12-DIMETHYLBENZ(a)ANTHRACENE	< 50	< 50	< 50	< 50	< 50	< 50
2,4-DIMETHYLPHENOL	< 10	< 10	< 10	< 10	< 10	< 10
DIMETHYL PHTHALATE	< 10	< 10	< 10	< 10	< 10	< 10
4,6-DINITRO-2-METHYLPHENOL	< 50	< 50	< 50	< 50	< 50	< 50
DI-n-BUTYL PHTHALATE	< 10	< 10	< 10	< 10	< 10	< 10
DI-n-OCTYL PHTHALATE (bis-(2-ETHYLHEXYL)PHTHALATE)	< 10	< 10	< 10	< 10	< 10	< 10
2,4-DINITROPHENOL	< 50	< 50	< 50	< 50	< 50	< 50
2,4-DINITROTOLUENE	< 10	< 10	< 10	< 10	< 10	< 10
2,6-DINITROTOLUENE	< 10	< 10	< 10	< 10	< 10	< 10
DIPHENYLAMINE	< 50	< 50	< 50	< 50	< 50	< 50
1,2-DIPHENYLHYDRAZINE	< 50	< 50	< 50	< 50	< 50	< 50

Semivolatiles in Groundwater
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Location ID	W-5		W-6	IS1-01	IS3-01	IS4-01
Sample ID	GN-88-0001	GN-88-0001D	GN-88-0001	GN-88-0003	GN-88-0003	GN-88-0003
Sample Date	880810	880810	880810	880818	880818	880818
Lab Sample ID						
Laboratory Lot Control Number	880816A	880816A	880816A	880823A	880823A	880823A
Sample Type	LB1	LB1	LB1	LB1	LB1	LB1
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ETHYL METHANESULFONATE	< 50	< 50	< 50	< 50	< 50	< 50
FLUORENE	< 10	< 10	< 10	< 10	< 10	< 10
FLUORANTHENE	< 10	< 10	< 10	< 10	< 10	< 10
HEXACHLOROBUTADIENE	< 10	< 10	< 10	< 10	< 10	< 10
HEXACHLOROCYCLOPENTADIENE	NR	NR	NR	NR	NR	NR
HEXACHLOROBENZENE	< 10	< 10	< 10	< 10	< 10	< 10
HEXACHLOROETHANE	< 10	< 10	< 10	< 10	< 10	< 10
INDENO(1,2,3-c,d)PYRENE	< 10	< 10	< 10	< 10	< 10	< 10
ISOPHORONE	< 10	< 10	< 10	< 10	< 10	< 10
3-METHYLCHOLANTHRENE	< 50	< 50	< 50	< 50	< 50	< 50
2-METHYLPHENOL (o-CRESOL)	< 10	< 10	< 10	< 10	< 10	< 10
4-METHYLPHENOL (p-CRESOL)	< 10	< 10	< 10	< 10	< 10	< 10
METHYL METHANESULFONATE	< 50	< 50	< 50	< 50	< 50	< 50
ALPHA, ALPHA DIMETHYLPHENETHYLAMINE	ND	ND	ND	ND	ND	ND
2-METHYLNAPHTHALENE	< 10	< 10	< 10	< 10	< 10	< 10
NAPHTHALENE	< 10	< 10	< 10	< 10	< 10	< 10
N-NITROSODI-n-BUTYLAMINE	< 50	< 50	< 50	< 50	< 50	< 50
N-NITROSODIMETHYLAMINE	< 50	< 50	< 50	< 50	< 50	< 50
N-NITROSODIPHENYLAMINE	< 10	< 10	< 10	< 10	< 10	< 10
N-NITROSOPIPERIDINE	< 50	< 50	< 50	< 50	< 50	< 50
N-NITROSODI-n-PROPYLAMINE	< 10	< 10	< 10	< 10	< 10	< 10
2-NITROANILINE	< 50	< 50	< 50	< 50	< 50	< 50
3-NITROANILINE	< 50	< 50	< 50	< 50	< 50	< 50
4-NITROANILINE	< 58	< 58	< 58	< 58	< 58	< 58
NITROBENZENE	< 10	< 10	< 10	< 10	< 10	< 10

Semivolatiles in Groundwater
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Location ID	W-5		W-6	IS1-01	IS3-01	IS4-01
Sample ID	GN-88-0001	GN-88-0001D	GN-88-0001	GN-88-0003	GN-88-0003	GN-88-0003
Sample Date	880810	880810	880810	880818	880818	880818
Lab Sample ID						
Laboratory Lot Control Number	880816A	880816A	880816A	880823A	880823A	880823A
Sample Type	LB1	LB1	LB1	LB1	LB1	LB1
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
2-NITROPHENOL	< 10	< 10	< 10	< 10	< 10	< 10
4-NITROPHENOL	< 50	< 50	< 50	< 50	< 50	< 50
PENTACHLOROPHENOL	< 30	< 30	< 30	< 30	< 30	< 30
p-DIMETHYLAMINOAZOBENZENE	< 50	< 50	< 50	< 50	< 50	< 50
PENTACHLOROBENZENE	< 50	< 50	< 50	< 50	< 50	< 50
PENTACHLORONITROBENZENE	< 50	< 50	< 50	< 50	< 50	< 50
PHENANTHRENE	< 10	< 10	< 10	< 10	< 10	< 10
PHENOL	< 10	< 10	< 10	< 10	< 10	< 10
PHENACETIN	< 50	< 50	< 50	< 50	< 50	< 50
2-PICOLINE (ALPHA-PICOLINE)	< 50	< 50	< 50	< 50	< 50	< 50
PRONAMIDE	< 50	< 50	< 50	< 50	< 50	< 50
PYRENE	< 10	< 10	< 10	< 10	< 10	< 10
1,2,4-TRICHLOROBENZENE	< 10	< 10	< 10	< 10	< 10	< 10
2,3,4,6-TETRACHLOROPHENOL	< 50	< 50	< 50	< 50	< 50	< 50
2,4,5-TRICHLOROPHENOL	< 50	< 50	< 50	< 50	< 50	< 50
2,4,6-TRICHLOROPHENOL	< 10	< 10	< 10	< 10	< 10	< 10

NR = Not Reported
ND = Not detected, detection limit not available

Semivolatiles in Groundwater
Elmendorf AFB, AK
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Location ID	IS4-01	W-18		W-19	GW-2A	GW-2A
Sample ID	GN-88-0003	GN-88-0001	GN-88-0001	GN-88-0001	GN-88-0001	GN-88-0001
Sample Date	880818	880818	880818	880818	880829	880829
Lab Sample ID	001318-0004		001318-0009			001434-0004
Laboratory Lot Control Number	880823A	880823A	880823A	880823A	880902A	880902A
Sample Type	N1	LB1	N1	LB1	LB1	N1
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ACENAPHTHENE	NR	< 10	NR	< 10	< 10	NR
ACENAPTHYLENE	NR	< 10	NR	< 10	< 10	NR
ACETOPHENONE	NR	< 50	NR	< 50	< 50	NR
4-AMINOBIPHENYL (4-BIPHENYLAMINE)	NR	< 50	NR	< 50	< 50	NR
1-NAPHTHYLAMINE	NR	< 50	NR	< 50	< 50	NR
2-AMINONAPHTHALENE (BETA NAPHTHYLAMINE)	NR	< 50	NR	< 50	< 50	NR
ANILINE (PHENYLAMINE, AMINOBENZENE)	NR	< 50	NR	< 50	< 50	NR
ANTHRACENE	NR	< 10	NR	< 10	< 10	NR
BENZYL BUTYL PHTHALATE	NR	< 10	NR	< 10	< 10	NR
bis(2-CHLOROETHOXY) METHANE	NR	< 10	NR	< 10	< 10	NR
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	NR	< 10	NR	< 10	< 10	NR
bis(2-CHLOROISOPROPYL) ETHER	NR	< 10	NR	< 10	< 10	NR
bis(2-ETHYLHEXYL) PHTHALATE	NR	< 10	720	< 10	< 10	24
4-BROMOPHENYL PHENYL ETHER	NR	< 10	NR	< 10	< 10	NR
BENZO(a)ANTHRACENE	NR	< 10	NR	< 10	< 10	NR
BENZOIC ACID	NR	< 50	NR	< 50	< 50	NR
BENZO(a)PYRENE	NR	< 10	NR	< 10	< 10	NR
BENZO(b)FLUORANTHENE	NR	< 10	NR	< 10	< 10	NR
BENZIDINE	NR	< 170	NR	< 170	< 170	NR
BENZO(g,h,i)PERYLENE	NR	< 10	NR	< 10	< 10	NR
BENZO(k)FLUORANTHENE	NR	< 10	NR	< 10	< 10	NR
BENZYL ALCOHOL	NR	< 20	NR	< 20	< 20	NR
1,2,4,5-TETRACHLOROBENZENE	NR	< 50	NR	< 50	< 50	NR
4-CHLORO-3-METHYLPHENOL	NR	< 10	NR	< 10	< 10	NR
CHRYSENE	NR	< 10	NR	< 10	< 10	NR

Semivolatiles in Groundwater
Elmendorf AFB, AK
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Location ID	IS4-01	W-18		W-19	GW-2A	GW-2A
Sample ID	GN-88-0003	GN-88-0001	GN-88-0001	GN-88-0001	GN-88-0001	GN-88-0001
Sample Date	880818	880818	880818	880818	880829	880829
Lab Sample ID	001318-0004		001318-0009			001434-0004
Laboratory Lot Control Number	880823A	880823A	880823A	880823A	880902A	880902A
Sample Type	N1	LB1	N1	LB1	LB1	N1
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
4-CHLOROANILINE	NR	< 20	NR	< 20	< 20	NR
1-CHLORONAPHTHALENE	NR	< 50	NR	< 50	< 50	NR
2-CHLOROPHENOL	NR	< 10	NR	< 10	< 10	NR
2-CHLORONAPHTHALENE	NR	< 10	NR	< 10	< 10	NR
4-CHLOROPHENYL PHENYL ETHER	NR	< 10	NR	< 10	< 10	NR
DIBENZ(a,h)ANTHRACENE	NR	< 10	NR	< 10	< 10	NR
DIBENZ(a,j)ACRIDINE	NR	ND	NR	ND	ND	NR
DIBENZOFURAN	NR	< 10	NR	< 10	< 10	NR
3,3'-DICHLOROBENZIDINE	NR	< 30	NR	< 30	< 30	NR
1,2-DICHLOROBENZENE	NR	< 5	NR	< 5	< 5	NR
1,3-DICHLOROBENZENE	NR	< 5	NR	< 5	< 5	NR
1,4-DICHLOROBENZENE	NR	< 5	NR	< 5	< 5	NR
2,4-DICHLOROPHENOL	NR	< 10	NR	< 10	< 10	NR
DIETHYL PHTHALATE	NR	< 20	NR	< 20	< 20	NR
7,12-DIMETHYLBENZ(a)ANTHRACENE	NR	< 50	NR	< 50	< 50	NR
2,4-DIMETHYLPHENOL	NR	< 10	NR	< 10	< 10	NR
DIMETHYL PHTHALATE	NR	< 10	NR	< 10	< 10	NR
4,6-DINITRO-2-METHYLPHENOL	NR	< 50	NR	< 50	< 50	NR
DI-n-BUTYL PHTHALATE	13	< 10	NR	< 10	< 10	NR
DI-n-OCTYL PHTHALATE (bis-(2-ETHYLHEXYL)PHTHALATE)	NR	< 10	NR	< 10	< 10	NR
2,4-DINITROPHENOL	NR	< 50	NR	< 50	< 50	NR
2,4-DINITROTOLUENE	NR	< 10	NR	< 10	< 10	NR
2,6-DINITROTOLUENE	NR	< 10	NR	< 10	< 10	NR
DIPHENYLAMINE	NR	< 50	NR	< 50	< 50	NR
1,2-DIPHENYLHYDRAZINE	NR	< 50	NR	< 50	< 50	NR

Semivolatiles in Groundwater
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Location ID	IS4-01	W-18		W-19	GW-2A	GW-2A
Sample ID	GN-88-0003	GN-88-0001	GN-88-0001	GN-88-0001	GN-88-0001	GN-88-0001
Sample Date	880818	880818	880818	880818	880829	880829
Lab Sample ID	001318-0004		001318-0009			001434-0004
Laboratory Lot Control Number	880823A	880823A	880823A	880823A	880902A	880902A
Sample Type	N1	LB1	N1	LB1	LB1	N1
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ETHYL METHANESULFONATE	NR	< 50	NR	< 50	< 50	NR
FLUORENE	NR	< 10	NR	< 10	< 10	NR
FLUORANTHENE	NR	< 10	NR	< 10	< 10	NR
HEXACHLOROBUTADIENE	NR	< 10	NR	< 10	< 10	NR
HEXACHLOROCYCLOPENTADIENE	NR	NR	NR	NR	< 10	NR
HEXACHLOROBENZENE	NR	< 10	NR	< 10	< 10	NR
HEXACHLOROETHANE	NR	< 10	NR	< 10	< 10	NR
INDENO(1,2,3-c,d)PYRENE	NR	< 10	NR	< 10	< 10	NR
ISOPHORONE	NR	< 10	NR	< 10	< 10	NR
3-METHYLCHOLANTHRENE	NR	< 50	NR	< 50	< 50	NR
2-METHYLPHENOL (o-CRESOL)	NR	< 10	NR	< 10	< 10	NR
4-METHYLPHENOL (p-CRESOL)	NR	< 10	NR	< 10	< 10	NR
METHYL METHANESULFONATE	NR	< 50	NR	< 50	< 50	NR
ALPHA, ALPHA DIMETHYLPHENETHYLAMINE	NR	ND	NR	ND	ND	NR
2-METHYLNAPHTHALENE	NR	< 10	500	< 10	< 10	NR
NAPHTHALENE	NR	< 10	280	< 10	< 10	NR
N-NITROSODI-n-BUTYLAMINE	NR	< 50	NR	< 50	< 50	NR
N-NITROSODIMETHYLAMINE	NR	< 50	NR	< 50	< 50	NR
N-NITROSODIPHENYLAMINE	NR	< 10	NR	< 10	< 10	NR
N-NITROSOPIPERIDINE	NR	< 50	NR	< 50	< 50	NR
N-NITROSODI-n-PROPYLAMINE	NR	< 10	NR	< 10	< 10	NR
2-NITROANILINE	NR	< 50	NR	< 50	< 50	NR
3-NITROANILINE	NR	< 50	NR	< 50	< 50	NR
4-NITROANILINE	NR	< 58	NR	< 58	< 58	NR
NITROBENZENE	NR	< 10	NR	< 10	< 10	NR

Semivolatiles in Groundwater
Elmendorf AFB, AK
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Location ID	IS4-01	W-18		W-19	GW-2A	GW-2A
Sample ID	GN-88-0003	GN-88-0001	GN-88-0001	GN-88-0001	GN-88-0001	GN-88-0001
Sample Date	880818	880818	880818	880818	880829	880829
Lab Sample ID	001318-0004		001318-0009			001434-0004
Laboratory Lot Control Number	880823A	880823A	880823A	880823A	880902A	880902A
Sample Type	N1	LB1	N1	LB1	LB1	N1
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
2-NITROPHENOL	NR	< 10	NR	< 10	< 10	NR
4-NITROPHENOL	NR	< 50	NR	< 50	< 50	NR
PENTACHLOROPHENOL	NR	< 30	NR	< 30	< 30	NR
p-DIMETHYLAMINOAZOBENZENE	NR	< 50	NR	< 50	< 50	NR
PENTACHLOROBENZENE	NR	< 50	NR	< 50	< 50	NR
PENTACHLORONITROBENZENE	NR	< 50	NR	< 50	< 50	NR
PHENANTHRENE	NR	< 10	NR	< 10	< 10	NR
PHENOL	NR	< 10	NR	< 10	< 10	NR
PHENACETIN	NR	< 50	NR	< 50	< 50	NR
2-PICOLINE (ALPHA-PICOLINE)	NR	< 50	NR	< 50	< 50	NR
PRONAMIDE	NR	< 50	NR	< 50	< 50	NR
PYRENE	NR	< 10	NR	< 10	< 10	NR
1,2,4-TRICHLOROBENZENE	NR	< 10	NR	< 10	< 10	NR
2,3,4,6-TETRACHLOROPHENOL	NR	< 50	NR	< 50	< 50	NR
2,4,5-TRICHLOROPHENOL	NR	< 50	NR	< 50	< 50	NR
2,4,6-TRICHLOROPHENOL	NR	< 10	NR	< 10	< 10	NR

NR = Not Reported
ND = Not detected, detection limit not available

Semivolatiles in Groundwater
Elmendorf AFB, AK
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Location ID	SP4-03	BH-1	BH-3		BH-4	BH-5
Sample ID	GN-88-0003	GN-88-0003	GN-88-0002	GN-88-0002	GN-88-0003	GN-88-0003
Sample Date	880829	880830	880830	880830	880830	880830
Lab Sample ID				001452-0004		
Laboratory Lot Control Number	880902A	880905A	880905A	880905A	880905A	880905A
Sample Type	LB1	LB1	LB1	N1	LB1	LB1
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ACENAPHTHENE	< 10	< 10	< 10	NR	< 10	< 10
ACENAPTHYLENE	< 10	< 10	< 10	NR	< 10	< 10
ACETOPHENONE	< 50	< 50	< 50	NR	< 50	< 50
4-AMINOBIPHENYL (4-BIPHENYLAMINE)	< 50	< 50	< 50	NR	< 50	< 50
1-NAPHTHYLAMINE	< 50	< 50	< 50	NR	< 50	< 50
2-AMINONAPHTHALENE (BETA NAPHTHYLAMINE)	< 50	< 50	< 50	NR	< 50	< 50
ANILINE (PHENYLAMINE, AMINOBENZENE)	< 50	< 50	< 50	NR	< 50	< 50
ANTHRACENE	< 10	< 10	< 10	NR	< 10	< 10
BENZYL BUTYL PHTHALATE	< 10	< 10	< 10	NR	< 10	< 10
bis(2-CHLOROETHOXY) METHANE	< 10	< 10	< 10	NR	< 10	< 10
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	< 10	< 10	< 10	NR	< 10	< 10
bis(2-CHLOROISOPROPYL) ETHER	< 10	< 10	< 10	NR	< 10	< 10
bis(2-ETHYLHEXYL) PHTHALATE	< 10	< 10	< 10	20	< 10	< 10
4-BROMOPHENYL PHENYL ETHER	< 10	< 10	< 10	NR	< 10	< 10
BENZO(a)ANTHRACENE	< 10	< 10	< 10	NR	< 10	< 10
BENZOIC ACID	< 50	< 50	< 50	NR	< 50	< 50
BENZO(a)PYRENE	< 10	< 10	< 10	NR	< 10	< 10
BENZO(b)FLUORANTHENE	< 10	< 10	< 10	NR	< 10	< 10
BENZIDINE	< 170	< 170	< 170	NR	< 170	< 170
BENZO(g,h,i)PERYLENE	< 10	< 10	< 10	NR	< 10	< 10
BENZO(k)FLUORANTHENE	< 10	< 10	< 10	NR	< 10	< 10
BENZYL ALCOHOL	< 20	< 20	< 20	NR	< 20	< 20
1,2,4,5-TETRACHLOROBENZENE	< 50	< 50	< 50	NR	< 50	< 50
4-CHLORO-3-METHYLPHENOL	< 10	< 10	< 10	NR	< 10	< 10
CHRYSENE	< 10	< 10	< 10	NR	< 10	< 10

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Location ID	SP4-03	BH-1	BH-3		BH-4	BH-5
Sample ID	GN-88-0003	GN-88-0003	GN-88-0002	GN-88-0002	GN-88-0003	GN-88-0003
Sample Date	880829	880830	880830	880830	880830	880830
Lab Sample ID				001452-0004		
Laboratory Lot Control Number	880902A	880905A	880905A	880905A	880905A	880905A
Sample Type	LB1	LB1	LB1	N1	LB1	LB1
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
4-CHLOROANILINE	< 20	< 20	< 20	NR	< 20	< 20
1-CHLORONAPHTHALENE	< 50	< 50	< 50	NR	< 50	< 50
2-CHLOROPHENOL	< 10	< 10	< 10	NR	< 10	< 10
2-CHLORONAPHTHALENE	< 10	< 10	< 10	NR	< 10	< 10
4-CHLOROPHENYL PHENYL ETHER	< 10	< 10	< 10	NR	< 10	< 10
DIBENZ(a,h)ANTHRACENE	< 10	< 10	< 10	NR	< 10	< 10
DIBENZ(a,j)ACRIDINE	ND	ND	ND	NR	ND	ND
DIBENZOFURAN	< 10	< 10	< 10	NR	< 10	< 10
3,3'-DICHLOROBENZIDINE	< 30	< 30	< 30	NR	< 30	< 30
1,2-DICHLOROBENZENE	< 5	< 5	< 5	NR	< 5	< 5
1,3-DICHLOROBENZENE	< 5	< 5	< 5	NR	< 5	< 5
1,4-DICHLOROBENZENE	< 5	< 5	< 5	NR	< 5	< 5
2,4-DICHLOROPHENOL	< 10	< 10	< 10	NR	< 10	< 10
DIETHYL PHTHALATE	< 20	< 20	< 20	NR	< 20	< 20
7,12-DIMETHYLBENZ(a)ANTHRACENE	< 50	< 50	< 50	NR	< 50	< 50
2,4-DIMETHYLPHENOL	< 10	< 10	< 10	NR	< 10	< 10
DIMETHYL PHTHALATE	< 10	< 10	< 10	NR	< 10	< 10
4,6-DINITRO-2-METHYLPHENOL	< 50	< 50	< 50	NR	< 50	< 50
DI-n-BUTYL PHTHALATE	< 10	< 10	< 10	NR	< 10	< 10
DI-n-OCTYL PHTHALATE (bis-(2-ETHYLHEXYL)PHTHALATE)	< 10	< 10	< 10	NR	< 10	< 10
2,4-DINITROPHENOL	< 50	< 50	< 50	NR	< 50	< 50
2,4-DINITROTOLUENE	< 10	< 10	< 10	NR	< 10	< 10
2,6-DINITROTOLUENE	< 10	< 10	< 10	NR	< 10	< 10
DIPHENYLAMINE	< 50	< 50	< 50	NR	< 50	< 50
1,2-DIPHENYLHYDRAZINE	< 50	< 50	< 50	NR	< 50	< 50

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Location ID	SP4-03	BH-1	BH-3		BH-4	BH-5
Sample ID	GN-88-0003	GN-88-0003	GN-88-0002	GN-88-0002	GN-88-0003	GN-88-0003
Sample Date	880829	880830	880830	880830	880830	880830
Lab Sample ID				001452-0004		
Laboratory Lot Control Number	880902A	880905A	880905A	880905A	880905A	880905A
Sample Type	LB1	LB1	LB1	N1	LB1	LB1
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ETHYL METHANESULFONATE	< 50	< 50	< 50	NR	< 50	< 50
FLUORENE	< 10	< 10	< 10	NR	< 10	< 10
FLUORANTHENE	< 10	< 10	< 10	NR	< 10	< 10
HEXACHLOROBUTADIENE	< 10	< 10	< 10	NR	< 10	< 10
HEXACHLOROCYCLOPENTADIENE	< 10	NR	NR	NR	NR	NR
HEXACHLOROBENZENE	< 10	< 10	< 10	NR	< 10	< 10
HEXACHLOROETHANE	< 10	< 10	< 10	NR	< 10	< 10
INDENO(1,2,3-c,d)PYRENE	< 10	< 10	< 10	NR	< 10	< 10
ISOPHORONE	< 10	< 10	< 10	NR	< 10	< 10
3-METHYLCHOLANTHRENE	< 50	< 50	< 50	NR	< 50	< 50
2-METHYLPHENOL (o-CRESOL)	< 10	< 10	< 10	NR	< 10	< 10
4-METHYLPHENOL (p-CRESOL)	< 10	< 10	< 10	NR	< 10	< 10
METHYL METHANESULFONATE	< 50	< 50	< 50	NR	< 50	< 50
ALPHA, ALPHA DIMETHYLPHENETHYLAMINE	ND	ND	ND	NR	ND	ND
2-METHYLNAPHTHALENE	< 10	< 10	< 10	NR	< 10	< 10
NAPHTHALENE	< 10	< 10	< 10	NR	< 10	< 10
N-NITROSODI-n-BUTYLAMINE	< 50	< 50	< 50	NR	< 50	< 50
N-NITROSODIMETHYLAMINE	< 50	< 50	< 50	NR	< 50	< 50
N-NITROSODIPHENYLAMINE	< 10	< 10	< 10	NR	< 10	< 10
N-NITROSOPIPERIDINE	< 50	< 50	< 50	NR	< 50	< 50
N-NITROSODI-n-PROPYLAMINE	< 10	< 10	< 10	NR	< 10	< 10
2-NITROANILINE	< 50	< 50	< 50	NR	< 50	< 50
3-NITROANILINE	< 50	< 50	< 50	NR	< 50	< 50
4-NITROANILINE	< 58	< 58	< 58	NR	< 58	< 58
NITROBENZENE	< 10	< 10	< 10	NR	< 10	< 10

Semivolatiles in Groundwater
Elmendorf AFB, AK
Black & Veatch

Location ID	SP4-03	BH-1	BH-3		BH-4	BH-5
Sample ID	GN-88-0003	GN-88-0003	GN-88-0002	GN-88-0002	GN-88-0003	GN-88-0003
Sample Date	880829	880830	880830	880830	880830	880830
Lab Sample ID				001452-0004		
Laboratory Lot Control Number	880902A	880905A	880905A	880905A	880905A	880905A
Sample Type	LB1	LB1	LB1	N1	LB1	LB1
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
2-NITROPHENOL	< 10	< 10	< 10	NR	< 10	< 10
4-NITROPHENOL	< 50	< 50	< 50	NR	< 50	< 50
PENTACHLOROPHENOL	< 30	< 30	< 30	NR	< 30	< 30
p-DIMETHYLAMINOAZOBENZENE	< 50	< 50	< 50	NR	< 50	< 50
PENTACHLOROBENZENE	< 50	< 50	< 50	NR	< 50	< 50
PENTACHLORONITROBENZENE	< 50	< 50	< 50	NR	< 50	< 50
PHENANTHRENE	< 10	< 10	< 10	NR	< 10	< 10
PHENOL	< 10	< 10	< 10	NR	< 10	< 10
PHENACETIN	< 50	< 50	< 50	NR	< 50	< 50
2-PICOLINE (ALPHA-PICOLINE)	< 50	< 50	< 50	NR	< 50	< 50
PRONAMIDE	< 50	< 50	< 50	NR	< 50	< 50
PYRENE	< 10	< 10	< 10	NR	< 10	< 10
1,2,4-TRICHLOROBENZENE	< 10	< 10	< 10	NR	< 10	< 10
2,3,4,6-TETRACHLOROPHENOL	< 50	< 50	< 50	NR	< 50	< 50
2,4,5-TRICHLOROPHENOL	< 50	< 50	< 50	NR	< 50	< 50
2,4,6-TRICHLOROPHENOL	< 10	< 10	< 10	NR	< 10	< 10

NR = Not Reported
ND = Not detected, detection limit not available

Semivolatiles in Groundwater
Elmendorf AFB, AK
Black & Veatch

Location ID	**BH-6**
Sample ID	**GN-88-0003**
Sample Date	**880830**
Lab Sample ID	
Laboratory Lot Control Number	**880905A**
Sample Type	**LB1**
Units	**µg/l**
ACENAPHTHENE	< 10
ACENAPTHYLENE	< 10
ACETOPHENONE	< 50
4-AMINOBIPHENYL (4-BIPHENYLAMINE)	< 50
1-NAPHTHYLAMINE	< 50
2-AMINONAPHTHALENE (BETA NAPHTHYLAMINE)	< 50
ANILINE (PHENYLAMINE, AMINOBENZENE)	< 50
ANTHRACENE	< 10
BENZYL BUTYL PHTHALATE	< 10
bis(2-CHLOROETHOXY) METHANE	< 10
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	< 10
bis(2-CHLOROISOPROPYL) ETHER	< 10
bis(2-ETHYLHEXYL) PHTHALATE	< 10
4-BROMOPHENYL PHENYL ETHER	< 10
BENZO(a)ANTHRACENE	< 10
BENZOIC ACID	< 50
BENZO(a)PYRENE	< 10
BENZO(b)FLUORANTHENE	< 10
BENZIDINE	< 170
BENZO(g,h,i)PERYLENE	< 10
BENZO(k)FLUORANTHENE	< 10
BENZYL ALCOHOL	< 20
1,2,4,5-TETRACHLOROBENZENE	< 50
4-CHLORO-3-METHYLPHENOL	< 10
CHRYSENE	< 10

Semivolatiles in Groundwater
Elmendorf AFB, AK
Black & Veatch

Location ID	BH-6
Sample ID	GN-88-0003
Sample Date	880830
Lab Sample ID	
Laboratory Lot Control Number	880905A
Sample Type	LB1
Units	µg/l
4-CHLOROANILINE	< 20
1-CHLORONAPHTHALENE	< 50
2-CHLOROPHENOL	< 10
2-CHLORONAPHTHALENE	< 10
4-CHLOROPHENYL PHENYL ETHER	< 10
DIBENZ(a,h)ANTHRACENE	< 10
DIBENZ(a,j)ACRIDINE	ND
DIBENZOFURAN	< 10
3,3'-DICHLOROBENZIDINE	< 30
1,2-DICHLOROBENZENE	< 5
1,3-DICHLOROBENZENE	< 5
1,4-DICHLOROBENZENE	< 5
2,4-DICHLOROPHENOL	< 10
DIETHYL PHTHALATE	< 20
7,12-DIMETHYLBENZ(a)ANTHRACENE	< 50
2,4-DIMETHYLPHENOL	< 10
DIMETHYL PHTHALATE	< 10
4,6-DINITRO-2-METHYLPHENOL	< 50
DI-n-BUTYL PHTHALATE	< 10
DI-n-OCTYL PHTHALATE (bis-(2-ETHYLHEXYL)PHTHALATE)	< 10
2,4-DINITROPHENOL	< 50
2,4-DINITROTOLUENE	< 10
2,6-DINITROTOLUENE	< 10
DIPHENYLAMINE	< 50
1,2-DIPHENYLHYDRAZINE	< 50

Semivolatiles in Groundwater
Elmendorf AFB, AK
Black & Veatch

Location ID	BH-6
Sample ID	GN-88-0003
Sample Date	880830
Lab Sample ID	
Laboratory Lot Control Number	880905A
Sample Type	LB1
Units	µg/l
ETHYL METHANESULFONATE	< 50
FLUORENE	< 10
FLUORANTHENE	< 10
HEXACHLOROBUTADIENE	< 10
HEXACHLOROCYCLOPENTADIENE	NR
HEXACHLOROBENZENE	< 10
HEXACHLOROETHANE	< 10
INDENO(1,2,3-c,d)PYRENE	< 10
ISOPHORONE	< 10
3-METHYLCHOLANTHRENE	< 50
2-METHYLPHENOL (o-CRESOL)	< 10
4-METHYLPHENOL (p-CRESOL)	< 10
METHYL METHANESULFONATE	< 50
ALPHA, ALPHA DIMETHYLPHENETHYLAMINE	ND
2-METHYLNAPHTHALENE	< 10
NAPHTHALENE	< 10
N-NITROSODI-n-BUTYLAMINE	< 50
N-NITROSODIMETHYLAMINE	< 50
N-NITROSODIPHENYLAMINE	< 10
N-NITROSOPIPERIDINE	< 50
N-NITROSODI-n-PROPYLAMINE	< 10
2-NITROANILINE	< 50
3-NITROANILINE	< 50
4-NITROANILINE	< 58
NITROBENZENE	< 10

Semivolatiles in Groundwater
Elmendorf AFB, AK
Black & Veatch

Location ID	**BH-6**
Sample ID	**GN-88-0003**
Sample Date	**880830**
Lab Sample ID	
Laboratory Lot Control Number	**880905A**
Sample Type	**LB1**
Units	**µg/l**
2-NITROPHENOL	< 10
4-NITROPHENOL	< 50
PENTACHLOROPHENOL	< 30
p-DIMETHYLAMINOAZOBENZENE	< 50
PENTACHLOROBENZENE	< 50
PENTACHLORONITROBENZENE	< 50
PHENANTHRENE	< 10
PHENOL	< 10
PHENACETIN	< 50
2-PICOLINE (ALPHA-PICOLINE)	< 50
PRONAMIDE	< 50
PYRENE	< 10
1,2,4-TRICHLOROBENZENE	< 10
2,3,4,6-TETRACHLOROPHENOL	< 50
2,4,5-TRICHLOROPHENOL	< 50
2,4,6-TRICHLOROPHENOL	< 10

NR = Not Reported
ND = Not detected, detection limit not available

Semivolatiles in Groundwater
Elmendorf AFB, AK
Black & Veatch

Location ID	**NS1-03**
Sample ID	**GS-88-0001**
Lab Sample ID	**001130-0003**
Sample Date	**880806**
Units	**µg/kg**
BENZO (a) ANTHRACENE	15
BENZO (a) PYRENE	16.3
BENZO (b) FLUORANTHENE	13
CHRYSENE	21
FLUORANTHENE	38
PHENANTHRENE	30
PYRENE	27

Note: These data have no associated laboratory QC data

GENERAL ORGANICS IN GROUNDWATER

General Organic Results in Groundwater
Elmendorf AFB, AK
Black & Veatch

Location ID	GW-5/5A		
Sample ID	ELMNF-89-GW-5/5A-21	ELMNF-89-GW-5/5A-21	ELMNF-89-GW-5/5A-22
Sample Date	891113	891113	891114
Lab Sample ID	007465-0003	007465-0003	007483-0004
ANMCODE	160.1	418.1	160.1
Lab Lot Control Number			
Sample Type	N1	N1	N1
LOTCTLNUM	101A	101A	020A
PVCCODE			
Units	mg/l	mg/l	mg/l
OIL & GREASE, TOTAL REC	NR	NR	NR
PETROLEUM HYDROCARBONS	NR	3	NR
TOTAL ORGANIC CARBON	NR	NR	NR
TOTAL HYDROCARBONS	NR	NR	NR

NR = Not Reported

General Organic Results in Groundwater
Elmendorf AFB, AK
Black & Veatch

Location ID	GW-5/5A		
Sample ID	ELMNF-89-GW-5/5A-22	ELMNF-89-GW-5/5A-23	ELMNF-89-GW-5/5A-23
Sample Date	891114	891114	891114
Lab Sample ID	007483-0004	007483-0005	007483-0005
ANMCODE	418.1	160.1	418.1
Lab Lot Control Number			
Sample Type	N1	N1	N1
LOTCTLNUM	020A	020A	020A
PVCCODE			
Units	mg/l	mg/l	mg/l
OIL & GREASE, TOTAL REC	NR	NR	NR
PETROLEUM HYDROCARBONS	< 1	NR	< 1
TOTAL ORGANIC CARBON	NR	NR	NR
TOTAL HYDROCARBONS	NR	NR	NR

NR = Not Reported

General Organic Results in Groundwater
Elmendorf AFB, AK
Black & Veatch

Location ID	GW-5/5A		
Sample ID	ELMNF-89-GW-5/5A-25	ELMNF-89-GW-5/5A-25	ELMNF-89-GW-5/5A-26
Sample Date	891113	891113	891113
Lab Sample ID	007465-0001	007465-0001	007483-0003
ANMCODE	160.1	418.1	160.1
Lab Lot Control Number			
Sample Type	N1	N1	N1
LOTCTLNUM	101A	101A	020A
PVCCODE			
Units	mg/l	mg/l	mg/l
OIL & GREASE, TOTAL REC	NR	NR	NR
PETROLEUM HYDROCARBONS	NR	3	NR
TOTAL ORGANIC CARBON	NR	NR	NR
TOTAL HYDROCARBONS	NR	NR	NR

NR = Not Reported

General Organic Results in Groundwater
Elmendorf AFB, AK
Black & Veatch

Location ID	GW-5/5A		
Sample ID	ELMNF-89-GW-5/5A-26	ELMNF-89-GW-5/5A-EB1	ELMNF-89-GW-5/5A-EB1
Sample Date	891113	891113	891113
Lab Sample ID	007483-0003	007483-0001	007483-0001
ANMCODE	418.1	160.1	418.1
Lab Lot Control Number			
Sample Type	N1	EB1	EB1
LOTCTLNUM	020A	020A	020A
PVCCODE			
Units	mg/l	mg/l	mg/l
OIL & GREASE, TOTAL REC	NR	NR	NR
PETROLEUM HYDROCARBONS	< 1	NR	< 1
TOTAL ORGANIC CARBON	NR	NR	NR
TOTAL HYDROCARBONS	NR	NR	NR

NR = Not Reported

General Organic Results in Groundwater
Elmendorf AFB, AK
Black & Veatch

Location ID	GW-5/5A		
Sample ID	ELMNF-89-GW-5/5A-EB2	ELMNF-89-GW-5/5A-EB2	ELMNF-89-GWX-5/5A-25
Sample Date	891113	891113	891113
Lab Sample ID	007483-0002	007483-0002	007465-0002
ANMCODE	160.1	418.1	160.1
Lab Lot Control Number			
Sample Type	EB2	EB2	N1
LOTCTLNUM	020A	020A	000A
PVCCODE			
Units	mg/l	mg/l	mg/l
OIL & GREASE, TOTAL REC	NR	NR	NR
PETROLEUM HYDROCARBONS	NR	< 1	NR
TOTAL ORGANIC CARBON	NR	NR	NR
TOTAL HYDROCARBONS	NR	NR	NR

NR = Not Reported

General Organic Results in Groundwater
Elmendorf AFB, AK
Black & Veatch

Location ID	GW-5/5A	GW-1A			GW-1B			
Sample ID	ELMNF-89-GWX-5/5A-25	GW-1A	GW-1A/74	GW-1A/75	GW-1B	GW-1B	GW-1B	GW-1B
Sample Date	891113	870722	870722	870722	870720	870720	870720	870720
Lab Sample ID	007465-0002	GW-1A			GW-1B	GW-1B	GW-1B	GW-1B
ANMCODE	418.1	418.1	160.1	418.1	418.1	418.1	418.1	418.1
Lab Lot Control Number								
Sample Type	N1	MS1	N1	N1	LB1	LR1	LR1	MS1
LOTCTLNUM	000A	000A	000A	000A	000A	000A	000A	000A
PVCCODE						1C	2C	
Units	mg/l	%	mg/l	mg/l	mg/l	mg/l	mg/l	%
OIL & GREASE, TOTAL REC	NR	NR	NR	NR	NR	NR	NR	NR
PETROLEUM HYDROCARBONS	3	NR	NR	1	< 1	< 1	< 1	120
TOTAL ORGANIC CARBON	NR	NR	NR	NR	NR	NR	NR	NR
TOTAL HYDROCARBONS	NR	90	NR	NR	NR	NR	NR	NR

NR = Not Reported

General Organic Results in Groundwater
Elmendorf AFB, AK
Black & Veatch

Location ID	GW-1B		GW-2B		GW-6A			
Sample ID	GW-1B/67	GW-1B/72	GW-2B	GW-2B/80	GW-6A	GW-6A	GW-6A/27	GW-6A/28
Sample Date	870722	870722	870722	870722	870720	870720	870718	870718
Lab Sample ID			GW-2B		GW-6A	GW-6A		
ANMCODE	160.1	418.1	418.1	160.1	418.1	418.1	160.1	418.1
Lab Lot Control Number								
Sample Type	N1	N1	MS1	N1	LR1	LR1	N1	N1
LOTCTLNUM	000A	000A	000A	000A	000A	000A	000A	000A
PVCCODE					1C	2C		
Units	mg/l	mg/l	%	mg/l	mg/l	mg/l	mg/l	mg/l
OIL & GREASE, TOTAL REC	NR	NR	NR	NR	NR	NR	NR	NR
PETROLEUM HYDROCARBONS	NR	.5	NR	NR	61	62	NR	61
TOTAL ORGANIC CARBON	NR	NR	NR	NR	NR	NR	NR	NR
TOTAL HYDROCARBONS	NR	NR	86	NR	NR	NR	NR	NR

NR = Not Reported

General Organic Results in Groundwater
Eimendorf AFB, AK
Black & Veatch

Location ID	GW-6A	SC-3			W-15			W-16
Sample ID	GW-6A/31(FQC)	SC-3	SC-3/36	SC-3/36	GN-84-0285	W-15	W-15/30	GN840266
Sample Date	870718	870720	861010	870720	890622	870717	861009	840629
Lab Sample ID	007465-0005	SC-3	007465-0005			W-15		
ANMCODE	418.1	418.1	160.1	160.1		418.1		413.2
Lab Lot Control Number								
Sample Type	N1	MS1	N1	N1	N1	MS1	N1	N1
LOTCTLNUM	000A	000A	000A	000A	000A	000A	000A	000A
PVCCODE								
Units	mg/l	%	mg/l	mg/l	mg/l	%	mg/l	mg/l
OIL & GREASE, TOTAL REC	NR	NR	NR	NR	3.9	NR	NR	8.6
PETROLEUM HYDROCARBONS	12	100	NR	NR	NR	NR	< .2	NR
TOTAL ORGANIC CARBON	NR	NR	NR	NR	< 1	NR	NR	NR
TOTAL HYDROCARBONS	NR	NR	NR	NR	NR	112	NR	NR

NR = Not Reported

General Organic Results in Groundwater
Elmendorf AFB, AK
Black & Veatch

Location ID	W-16				W-7					
Sample ID	GN840266	W-16	W-16/25	W-16/26	GN840277	W-7	W-7/23	W-7/28	W-7/28	W-7/28
Sample Date	840629	870718	870718	870718	840628	870718	870718	861008	861008	861008
Lab Sample ID		W-16				W-7				
ANMCODE	415.1	418.1	160.1	418.1	415.1	479	160.1	310.2	353.2	365.4
Lab Lot Control Number										
Sample Type	N1	MS1	N1	N1	N1	MS1	N1	N1	N1	N1
LOTCTLNUM	000A	000A	000A	000A	000A	000A	000A	000A	000A	000A
PVCCODE										
Units	*mg/l*	*%*	*mg/l*	*mg/l*	*mg/l*	*%*	*mg/l*	*mg/l*	*mg/l*	*mg/l*
OIL & GREASE, TOTAL REC	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
PETROLEUM HYDROCARBONS	NR	NR	NR	.8	NR	NR	NR	NR	NR	NR
TOTAL ORGANIC CARBON	1	NR	NR	NR	4	NR	NR	NR	NR	NR
TOTAL HYDROCARBONS	NR	100	NR	NR	NR	NR	NR	NR	NR	NR

NR = Not Reported

General Organic Results in Groundwater
Elmendorf AFB, AK
Black & Veatch

Location ID	**W-7**
Sample ID	**W-7/28**
Sample Date	**861008**
Lab Sample ID	
ANMCODE	**A429**
Lab Lot Control Number	
Sample Type	**N1**
LOTCTLNUM	**000A**
PVCCODE	
Units	***mg/l***
OIL & GREASE, TOTAL REC	NR
PETROLEUM HYDROCARBONS	NR
TOTAL ORGANIC CARBON	NR
TOTAL HYDROCARBONS	NR

NR = Not Reported

General Organic Results in Groundwater
Elmendorf AFB, AK
Black & Veatch

Location ID	GW-5/5A		
Sample ID	ELMNF-89-GW-5/5A-22	ELMNF-89-GW-5/5A-22	ELMNF-89-GW-5/5A-23
Sample Date	891114	891114	891114
Lab Sample ID	007483-0004	007483-0004	007483-0005
Units	mg/l	mg/l	mg/l
OIL & GREASE, TOTAL REC	NR	NR	NR
PETROLEUM HYDROCARBONS	NR	1 ND	NR
PHENOL	NR	NR	NR
TOTAL ORGANIC CARBON	NR	NR	NR

Note: These data have no associated laboratory QC data
NR = Not Reported
ND = Not Detected

General Organic Results in Groundwater
Elmendorf AFB, AK
Black & Veatch

Location ID	GW-5/5A	BW-1			BW-2
Sample ID	ELMNF-89-GW-5/5A-23	BW-1/38	GN-88-0001	GN-88-0001	GN-88-0001
Sample Date	891114	870720	880823	880823	880823
Lab Sample ID	007483-0005		001370-0007	001370-0007	001370-0009
Units	mg/l	mg/l	mg/l	mg/l	mg/l
OIL & GREASE, TOTAL REC	NR	NR	NR	NR	NR
PETROLEUM HYDROCARBONS	1 ND	NR	NR	3	NR
PHENOL	NR	NR	NR	NR	NR
TOTAL ORGANIC CARBON	NR	NR	NR	NR	NR

Note: These data have no associated laboratory QC data
NR = Not Reported
ND = Not Detected

General Organic Results in Groundwater
Elmendorf AFB, AK
Black & Veatch

Location ID	BW-52				
Sample ID	BW-52/40	GN-88-0001	GN-88-0001	GN-88-0001D	GN-88-0001D
Sample Date	870720	880823	880823	880823	880823
Lab Sample ID		001370-0010	001370-0010	001370-0010	001370-0010
Units	mg/l	mg/l	mg/l	mg/l	mg/l
OIL & GREASE, TOTAL REC	NR	NR	NR	NR	NR
PETROLEUM HYDROCARBONS	NR	NR	2	NR	NR
PHENOL	NR	NR	NR	NR	NR
TOTAL ORGANIC CARBON	NR	NR	NR	NR	NR

Note: These data have no associated laboratory QC data
NR = Not Reported
ND = Not Detected

General Organic Results in Groundwater
Elmendorf AFB, AK
Black & Veatch

Location ID	BW-52	D13-01		D13-02	D13-03
Sample ID	GN-88-0001D	GN-88-0003	GN-88-0003	GN-88-0003	GN-88-0003
Sample Date	880823	880809	880809	880808	880809
Lab Sample ID	001370-0010	001240-0009	001240-0009	001167-0003	001167-0007
Units	mg/l	mg/l	mg/l	mg/l	mg/l
OIL & GREASE, TOTAL REC	NR	NR	NR	NR	NR
PETROLEUM HYDROCARBONS	.5	NR	1.4	NR	NR
PHENOL	NR	NR	NR	NR	NR
TOTAL ORGANIC CARBON	NR	NR	NR	NR	NR

Note: These data have no associated laboratory QC data
NR = Not Reported
ND = Not Detected

General Organic Results in Groundwater
Elmendorf AFB, AK
Black & Veatch

Location ID	D13-03	D3-01		D3-02	
Sample ID	GN-88-0003	GN-88-0003	GN-88-0003	GN-88-0003	GN-88-0003
Sample Date	880809	880819	880819	880819	880819
Lab Sample ID	001167-0007	001324-0005	001324-0005	001324-0003	001324-0003
Units	mg/l	mg/l	mg/l	mg/l	mg/l
OIL & GREASE, TOTAL REC	NR	NR	NR	NR	NR
PETROLEUM HYDROCARBONS	.017	NR	NR	NR	NR
PHENOL	NR	NR	NR	NR	NR
TOTAL ORGANIC CARBON	NR	NR	NR	NR	NR

Note: These data have no associated laboratory QC data
NR = Not Reported
ND = Not Detected

General Organic Results in Groundwater
Elmendorf AFB, AK
Black & Veatch

Location ID	D3-03	FTA				
Sample ID	GN-88-0003	FP51-WS1	FP52-WS1	FP53-WS1	FP54-WS1	FP55-WS1
Sample Date	880819	880704	880703	880703	880703	880703
Lab Sample ID	001324-0002					
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
OIL & GREASE, TOTAL REC	NR	1	2.2	140	1	NR
PETROLEUM HYDROCARBONS	NR	NR	NR	NR	NR	NR
PHENOL	NR	NR	NR	NR	NR	NR
TOTAL ORGANIC CARBON	NR	3	16	100	8	20

Note: These data have no associated laboratory QC data
NR = Not Reported
ND = Not Detected

General Organic Results in Groundwater
Elmendorf AFB, AK
Black & Veatch

Location ID	FTA	G-1		G-2		GW-1A	GW-1B
Sample ID	FP56-WS1	G-1	G-1	G-2	G-2	GN-88-0001	GN-88-0001
Sample Date	880704	840629	840629	840629	840629	880829	880809
Lab Sample ID						001434-0001	001240-0010
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
OIL & GREASE, TOTAL REC	23	3000	NR	159	NR	NR	NR
PETROLEUM HYDROCARBONS	NR	NR	NR	NR	NR	.7	NR
PHENOL	NR	NR	NR	NR	NR	NR	NR
TOTAL ORGANIC CARBON	3600	NR	NR	NR	NR	NR	NR

Note: These data have no associated laboratory QC data
NR = Not Reported
ND = Not Detected

General Organic Results in Groundwater
Elmendorf AFB, AK
Black & Veatch

Location ID	GW-1B		GW-1C		GW-2A	GW-2B
Sample ID	GW-1B/67	GW-1B/72	GN-88-0001	GW-1C/77	GW-2A/58	GN-88-0001
Sample Date	870722	870722	880809	870722	870722	880809
Lab Sample ID			001240-0005			001240-0007
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
OIL & GREASE, TOTAL REC	NR	NR	NR	NR	NR	NR
PETROLEUM HYDROCARBONS	NR	.5	NR	NR	NR	NR
PHENOL	NR	NR	NR	NR	NR	NR
TOTAL ORGANIC CARBON	NR	NR	NR	NR	NR	NR

Note: These data have no associated laboratory QC data
NR = Not Reported
ND = Not Detected

General Organic Results in Groundwater
Elmendorf AFB, AK
Black & Veatch

Location ID	GW-2C		GW-3A			GW-4A
Sample ID	GN-88-0001	GW-2C/61	GN-88-0001	GW-3A/1	GW-3A/2	GN-88-0001
Sample Date	880810	870722	880812	870718	870718	880812
Lab Sample ID	001206-0006		001229-0009			001229-0002
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
OIL & GREASE, TOTAL REC	NR	NR	NR	NR	NR	NR
PETROLEUM HYDROCARBONS	NR	NR	1	NR	.1	3
PHENOL	NR	NR	NR	NR	NR	NR
TOTAL ORGANIC CARBON	NR	NR	NR	NR	NR	NR

Note: These data have no associated laboratory QC data
NR = Not Reported
ND = Not Detected

General Organic Results in Groundwater
Elmendorf AFB, AK
Black & Veatch

Location ID	GW-4A		GW-5A	GW-6A		
Sample ID	GW-4A/13	GW-4A/14	GW-5A/29	GN-88-0001	GW-6A/27	GW-6A/28
Sample Date	880812	870718	861009	880810	870718	870718
Lab Sample ID				001206-0009		
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
OIL & GREASE, TOTAL REC	NR	NR	NR	NR	NR	NR
PETROLEUM HYDROCARBONS	NR	19	2 ND	64	NR	61
PHENOL	NR	NR	NR	NR	NR	NR
TOTAL ORGANIC CARBON	NR	NR	NR	NR	NR	NR

Note: These data have no associated laboratory QC data
NR = Not Reported
ND = Not Detected

General Organic Results in Groundwater
Elmendorf AFB, AK
Black & Veatch

Location ID	GW-6A	GW-7A	IS1-01	IS2-01	
Sample ID	GW-6A/31(FQC	GW-7A/15	GN-88-0003	GN-88-0003	GN-88-0003
Sample Date	870718	870718	880818	880817	880817
Lab Sample ID	007465-0005		001318-0007	001302-0003	001302-0003
Units	mg/l	mg/l	mg/l	mg/l	mg/l
OIL & GREASE, TOTAL REC	NR	NR	NR	NR	NR
PETROLEUM HYDROCARBONS	12	NR	NR	NR	.7
PHENOL	NR	NR	NR	NR	NR
TOTAL ORGANIC CARBON	NR	NR	NR	NR	NR

Note: These data have no associated laboratory QC data
NR = Not Reported
ND = Not Detected

General Organic Results in Groundwater
Elmendorf AFB, AK
Black & Veatch

Location ID	IS3-01		IS4-01	IS5-01	
Sample ID	GN-88-0003	GN-88-0003	GN-88-0003	GN-88-0003	GN-88-0003
Sample Date	880818	880818	880818	880817	880817
Lab Sample ID	001318-0003	001318-0003	001318-0004	001302-0002	001302-0002
Units	mg/l	mg/l	mg/l	mg/l	mg/l
OIL & GREASE, TOTAL REC	NR	NR	NR	NR	NR
PETROLEUM HYDROCARBONS	NR	1.3	NR	NR	.6
PHENOL	NR	NR	NR	NR	NR
TOTAL ORGANIC CARBON	NR	NR	NR	NR	NR

Note: These data have no associated laboratory QC data
NR = Not Reported
ND = Not Detected

General Organic Results in Groundwater
Elmendorf AFB, AK
Black & Veatch

Location ID	IS6-01		IS7-01		IS8-01
Sample ID	GN-88-0003	GN-88-0003	GN-88-0003	GN-88-0003	GN-88-0003
Sample Date	880817	880817	880817	880817	880817
Lab Sample ID	001302-0005	001302-0005	001302-0006	001302-0006	001302-0001
Units	mg/l	mg/l	mg/l	mg/l	mg/l
OIL & GREASE, TOTAL REC	NR	NR	NR	NR	NR
PETROLEUM HYDROCARBONS	NR	9	NR	2	NR
PHENOL	NR	NR	NR	NR	NR
TOTAL ORGANIC CARBON	NR	NR	NR	NR	NR

Note: These data have no associated laboratory QC data
NR = Not Reported
ND = Not Detected

General Organic Results in Groundwater
Elmendorf AFB, AK
Black & Veatch

Location ID	IS8-01			NS1-01	NS1-02
Sample ID	GN-88-0003	GN-88-0003D	GN-88-0003D	GN-88-0002	GN-88-0002
Sample Date	880817	880817	880817	880806	880806
Lab Sample ID	001302-0001	001302-0001	001302-0001	001126-0001	001126-0002
Units	mg/l	mg/l	mg/l	mg/l	mg/l
OIL & GREASE, TOTAL REC	NR	NR	NR	NR	NR
PETROLEUM HYDROCARBONS	2	NR	NR	NR	NR
PHENOL	NR	NR	NR	NR	NR
TOTAL ORGANIC CARBON	NR	NR	NR	NR	NR

Note: These data have no associated laboratory QC data
NR = Not Reported
ND = Not Detected

General Organic Results in Groundwater
Elmendorf AFB, AK
Black & Veatch

Location ID	NS1-03	NS1-04	NS2-01		NS2-02
Sample ID	GN-88-0002	GN-88-0002	GN-88-0003	GN-88-0003	GN-88-0003
Sample Date	880820	880806	880809	880809	880808
Lab Sample ID	001126-0003	001126-0004	001167-0006	001167-0006	001167-0001
Units	mg/l	mg/l	mg/l	mg/l	mg/l
OIL & GREASE, TOTAL REC	NR	NR	NR	NR	NR
PETROLEUM HYDROCARBONS	NR	NR	NR	NR	NR
PHENOL	NR	NR	NR	NR	NR
TOTAL ORGANIC CARBON	NR	NR	NR	NR	NR

Note: These data have no associated laboratory QC data
NR = Not Reported
ND = Not Detected

General Organic Results in Groundwater
Elmendorf AFB, AK
Black & Veatch

Location ID	NS2-02	NS3-02	NS3-03	SC-1	SC-2
Sample ID	GN-88-0003	GN-88-0003	GN-88-0003	SC-1/32	SC-2/34
Sample Date	880808	880823	880823	861010	861010
Lab Sample ID	001167-0001	001347-0004	001370-0005	007465-0005	
Units	mg/l	mg/l	mg/l	mg/l	mg/l
OIL & GREASE, TOTAL REC	NR	NR	NR	NR	NR
PETROLEUM HYDROCARBONS	NR	2	7	NR	NR
PHENOL	NR	NR	NR	NR	NR
TOTAL ORGANIC CARBON	NR	NR	NR	NR	NR

Note: These data have no associated laboratory QC data
NR = Not Reported
ND = Not Detected

General Organic Results in Groundwater
Elmendorf AFB, AK
Black & Veatch

Location ID	SC-3	SC-4	SC-5	SC-6	SP1-01
Sample ID	SC-3/36	GN-88-0002	GN-88-0002	GN-88-0002	GN-88-0003
Sample Date	861010	880808	880808	880808	880822
Lab Sample ID	007465-0005	001170-0004	001170-0006	001170-0008	001347-0010
Units	mg/l	mg/l	mg/l	mg/l	mg/l
OIL & GREASE, TOTAL REC	NR	NR	NR	NR	NR
PETROLEUM HYDROCARBONS	NR	NR	NR	NR	160
PHENOL	NR	NR	NR	NR	NR
TOTAL ORGANIC CARBON	NR	NR	NR	NR	NR

Note: These data have no associated laboratory QC data
NR = Not Reported
ND = Not Detected

General Organic Results in Groundwater
Elmendorf AFB, AK
Black & Veatch

Location ID	SP1-02		SP15-01	SP15-02	
Sample ID	GN-88-0003	GN-88-0003D	GN-88-0003	GN-88-0003	GN-88-0003D
Sample Date	880822	880822	880822	880822	880822
Lab Sample ID	001347-0011	001347-0011	001347-0005	001347-0006	001347-0006
Units	mg/l	mg/l	mg/l	mg/l	mg/l
OIL & GREASE, TOTAL REC	NR	NR	NR	NR	NR
PETROLEUM HYDROCARBONS	5	4	3	1	2
PHENOL	NR	NR	NR	NR	NR
TOTAL ORGANIC CARBON	NR	NR	NR	NR	NR

Note: These data have no associated laboratory QC data
NR = Not Reported
ND = Not Detected

General Organic Results in Groundwater
Elmendorf AFB, AK
Black & Veatch

Location ID	SP2/6-03		SP2/6-04	SP2/6-05	SP4-01
Sample ID	GN-88-0002	GN-88-0002D	GN-88-0002	GN-88-0003	GN-88-0003
Sample Date	880813	880813	880813	880816	880812
Lab Sample ID	001229-0011	001229-0011	001229-0005	001278-0001	001229-0014
Units	mg/l	mg/l	mg/l	mg/l	mg/l
OIL & GREASE, TOTAL REC	NR	NR	NR	NR	NR
PETROLEUM HYDROCARBONS	3.3	3.5	1	5.8	3.3
PHENOL	NR	NR	NR	NR	NR
TOTAL ORGANIC CARBON	NR	NR	NR	NR	NR

Note: These data have no associated laboratory QC data
NR = Not Reported
ND = Not Detected

General Organic Results in Groundwater
Elmendorf AFB, AK
Black & Veatch

Location ID	SP4-02	SP4-03	SP5/5A-02	SP5/5A-18	SP7/10-04
Sample ID	GN-88-0003	GN-88-0003	GN-88-0003	GN-88-0004	GN-88-0003
Sample Date	880816	880829	880719	880719	880815
Lab Sample ID	001278-0002	001434-0007	000837-0005	000837-0004	001268-0009
Units	mg/l	mg/l	mg/l	mg/l	mg/l
OIL & GREASE, TOTAL REC	NR	NR	NR	NR	NR
PETROLEUM HYDROCARBONS	3.2	2.5	NR	NR	5.9
PHENOL	NR	NR	NR	NR	NR
TOTAL ORGANIC CARBON	NR	NR	NR	NR	NR

Note: These data have no associated laboratory QC data
NR = Not Reported
ND = Not Detected

General Organic Results in Groundwater
Elmendorf AFB, AK
Black & Veatch

Location ID	W-1						
Sample ID	GN-88-0001	GN840271	GN840271	GN840271	GN840271	W-1/78	W-1/79
Sample Date	880809	840628	840628	840628	840628	870722	870722
Lab Sample ID	001240-0006						
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
OIL & GREASE, TOTAL REC	NR	NR	4	NR	NR	NR	NR
PETROLEUM HYDROCARBONS	NR	NR	NR	NR	NR	NR	.2
PHENOL	NR	NR	NR	NR	NR	NR	NR
TOTAL ORGANIC CARBON	NR	NR	NR	2	NR	NR	NR

Note: These data have no associated laboratory QC data
NR = Not Reported
ND = Not Detected

General Organic Results in Groundwater
Elmendorf AFB, AK
Black & Veatch

Location ID	W-10				W-11	
Sample ID	GN840280	GN840280	GN840280	GN840280	GN-88-0001	GN-88-0001
Sample Date	840628	840628	840628	840628	880822	880822
Lab Sample ID					001347-0002	001347-0002
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
OIL & GREASE, TOTAL REC	NR	1.2	NR	NR	NR	NR
PETROLEUM HYDROCARBONS	NR	NR	NR	NR	NR	2
PHENOL	NR	NR	NR	NR	NR	NR
TOTAL ORGANIC CARBON	NR	NR	3	NR	NR	NR

Note: These data have no associated laboratory QC data
NR = Not Reported
ND = Not Detected

General Organic Results in Groundwater
Elmendorf AFB, AK
Black & Veatch

Location ID	W-11				W-12		
Sample ID	GN840281	GN840281	GN840281	GN840281	GN8402	GN8402	GN8402
Sample Date	840628	840628	840628	840628	840629	840629	840629
Lab Sample ID							
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
OIL & GREASE, TOTAL REC	NR	3.1	NR	NR	NR	1	NR
PETROLEUM HYDROCARBONS	NR	NR	NR	NR	NR	NR	NR
PHENOL	NR	NR	NR	NR	NR	NR	NR
TOTAL ORGANIC CARBON	NR	NR	5	NR	NR	NR	2

Note: These data have no associated laboratory QC data
NR = Not Reported
ND = Not Detected

General Organic Results in Groundwater
Elmendorf AFB, AK
Black & Veatch

Location ID	W-12	W-13			
Sample ID	GN8402	GN-88-0001	GN-88-0001	GN-88-0001D	GN-88-0001D
Sample Date	840629	880822	880822	880822	880822
Lab Sample ID		001347-0001	001347-0001	001347-0001	001347-0001
Units	mg/l	mg/l	mg/l	mg/l	mg/l
OIL & GREASE, TOTAL REC	NR	NR	NR	NR	NR
PETROLEUM HYDROCARBONS	NR	NR	2	NR	NR
PHENOL	NR	NR	NR	NR	NR
TOTAL ORGANIC CARBON	NR	NR	NR	NR	NR

Note: These data have no associated laboratory QC data
NR = Not Reported
ND = Not Detected

General Organic Results in Groundwater
Elmendorf AFB, AK
Black & Veatch

Location ID	W-13					W-14
Sample ID	GN-88-0001D	GN840283	GN840283	GN840283	GN840283	GN-88-0001
Sample Date	880822	840629	840629	840629	840629	880812
Lab Sample ID	001347-0001					001229-0001
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
OIL & GREASE, TOTAL REC	NR	NR	2.7	NR	NR	NR
PETROLEUM HYDROCARBONS	1	NR	NR	NR	NR	1
PHENOL	NR	NR	NR	NR	NR	NR
TOTAL ORGANIC CARBON	NR	NR	NR	15	NR	NR

Note: These data have no associated laboratory QC data
NR = Not Reported
ND = Not Detected

General Organic Results in Groundwater
Elmendorf AFB, AK
Black & Veatch

Location ID	W-14			W-15		W-16
Sample ID	GN840264	GN840264	GN840264	GN-84-0285	W-15/30	GN840266
Sample Date	840629	840629	840629	890622	861009	840629
Lab Sample ID						
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
OIL & GREASE, TOTAL REC	NR	1.7	NR	3.9	NR	8.6
PETROLEUM HYDROCARBONS	NR	NR	NR	NR	.2 ND	NR
PHENOL	NR	NR	NR	.01 ND	NR	NR
TOTAL ORGANIC CARBON	NR	NR	NR	1 ND	NR	NR

Note: These data have no associated laboratory QC data
NR = Not Reported
ND = Not Detected

General Organic Results in Groundwater
Elmendorf AFB, AK
Black & Veatch

Location ID	W-16	W-17				W-18
Sample ID	GN840266	GN-88-0001D	GN-88-0001D	GN840267	W-17/21	GN-88-0001
Sample Date	840629	880824	880824	870720	870718	880818
Lab Sample ID		001221-0003	001221-0003			001318-0009
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
OIL & GREASE, TOTAL REC	NR	NR	NR	4.7	NR	NR
PETROLEUM HYDROCARBONS	NR	NR	280	NR	NR	NR
PHENOL	NR	NR	NR	NR	NR	NR
TOTAL ORGANIC CARBON	1	NR	NR	NR	NR	NR

Note: These data have no associated laboratory QC data
NR = Not Reported
ND = Not Detected

General Organic Results in Groundwater
Elmendorf AFB, AK
Black & Veatch

Location ID	W-18				W-19	
Sample ID	GN-88-0001	GN840288	GN840288	GN840288	GN840289	GN840289
Sample Date	880818	840629	840629	840629	840629	840629
Lab Sample ID	001318-0009					
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
OIL & GREASE, TOTAL REC	NR	2.5	NR	NR	1.7	NR
PETROLEUM HYDROCARBONS	78	NR	NR	NR	NR	NR
PHENOL	NR	NR	NR	NR	NR	NR
TOTAL ORGANIC CARBON	NR	NR	6	NR	NR	1

Note: These data have no associated laboratory QC data
NR = Not Reported
ND = Not Detected

General Organic Results in Groundwater
Elmendorf AFB, AK
Black & Veatch

Location ID	W-19	W-2				W-3
Sample ID	GN840289	GN840272	GN840272	GN840272	W-2/17	GN-88-0001
Sample Date	840629	840628	840628	840628	861005	880815
Lab Sample ID						001268-0010
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
OIL & GREASE, TOTAL REC	NR	NR	5	NR	NR	NR
PETROLEUM HYDROCARBONS	NR	NR	NR	NR	NR	1400
PHENOL	NR	NR	NR	NR	NR	NR
TOTAL ORGANIC CARBON	NR	NR	NR	NR	NR	NR

Note: These data have no associated laboratory QC data
NR = Not Reported
ND = Not Detected

General Organic Results in Groundwater
Elmendorf AFB, AK
Black & Veatch

Location ID	W-3				W-4		
Sample ID	GN840274	GN840274	W-3/46	W-3/48	GN-88-0001	GN840274	GN840274
Sample Date	840629	840629	870721	870721	880815	840629	840629
Lab Sample ID					001268-0011		
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
OIL & GREASE, TOTAL REC	56	NR	NR	NR	NR	6	NR
PETROLEUM HYDROCARBONS	NR	NR	NR	51	1	NR	NR
PHENOL	NR	NR	NR	NR	NR	NR	NR
TOTAL ORGANIC CARBON	NR	8	NR	NR	NR	NR	5

Note: These data have no associated laboratory QC data
NR = Not Reported
ND = Not Detected

General Organic Results in Groundwater
Elmendorf AFB, AK
Black & Veatch

Location ID	W-4		W-5			
Sample ID	W-4/44	W-4/45	GN-88-0001	GN-88-0001D	GN-88-0001D	GN840275
Sample Date	870721	870721	880810	880810	880810	840628
Lab Sample ID			001206-0004	001206-0004	001206-0004	
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
OIL & GREASE, TOTAL REC	NR	NR	NR	NR	NR	NR
PETROLEUM HYDROCARBONS	NR	1.9	NR	NR	NR	NR
PHENOL	NR	NR	NR	NR	NR	NR
TOTAL ORGANIC CARBON	NR	NR	NR	NR	NR	NR

Note: These data have no associated laboratory QC data
NR = Not Reported
ND = Not Detected

General Organic Results in Groundwater
Elmendorf AFB, AK
Black & Veatch

Location ID	W-5					W-6	
Sample ID	GN840275	GN840275	GN840275	W-5/64	W-5/65	GN-88-0001	GN840276
Sample Date	840628	840628	840628	870722	870722	880810	840628
Lab Sample ID						001206-0005	
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
OIL & GREASE, TOTAL REC	6	NR	NR	NR	NR	NR	NR
PETROLEUM HYDROCARBONS	NR	NR	NR	NR	3.9	NR	NR
PHENOL	NR	NR	NR	NR	NR	NR	NR
TOTAL ORGANIC CARBON	NR	1	NR	NR	NR	NR	NR

Note: These data have no associated laboratory QC data
NR = Not Reported
ND = Not Detected

General Organic Results in Groundwater
Elmendorf AFB, AK
Black & Veatch

Location ID	W-6				W-7			
Sample ID	GN840276	GN840276	W-6/55	W-6/56	GN840277	W-7/28	W-7/28	W-7/28
Sample Date	840628	840628	870722	870722	840628	861008	861008	861008
Lab Sample ID								
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
OIL & GREASE, TOTAL REC	1	NR	NR	NR	NR	NR	NR	NR
PETROLEUM HYDROCARBONS	NR	NR	NR	.7	NR	NR	NR	NR
PHENOL	NR	NR	NR	NR	NR	NR	NR	NR
TOTAL ORGANIC CARBON	NR	NR	NR	NR	4	NR	NR	NR

Note: These data have no associated laboratory QC data
NR = Not Reported
ND = Not Detected

General Organic Results in Groundwater
Elmendorf AFB, AK
Black & Veatch

Location ID	W-7	W-8						
Sample ID	W-7/28	GN840278	GN840278	W-8/27	W-8/27	W-8/27	W-8/27	W-8/27
Sample Date	861008	840628	840628	861008	861008	861008	861008	861008
Lab Sample ID								
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
OIL & GREASE, TOTAL REC	NR	3	NR	NR	NR	NR	.05	NR
PETROLEUM HYDROCARBONS	NR	NR	NR	NR	NR	NR	NR	NR
PHENOL	NR	NR	NR	NR	NR	NR	NR	NR
TOTAL ORGANIC CARBON	NR	NR	2	NR	NR	NR	NR	NR

Note: These data have no associated laboratory QC data
NR = Not Reported
ND = Not Detected

General Organic Results in Groundwater
Elmendorf AFB, AK
Black & Veatch

Location ID	W-9		
Sample ID	GN-88-0001	GN840279	W-9/3
Sample Date	880812	840628	870718
Lab Sample ID	001229-0008		
Units	mg/l	mg/l	mg/l
OIL & GREASE, TOTAL REC	NR	1	NR
PETROLEUM HYDROCARBONS	1	NR	NR
PHENOL	NR	NR	NR
TOTAL ORGANIC CARBON	NR	NR	NR

Note: These data have no associated laboratory QC data
NR = Not Reported
ND = Not Detected

METALS IN GROUNDWATER

Metals in
Groundwater (QA)
Elmendorf AFB, AK
Black & Veatch

Location ID	SC-1			SC-2					W-7			W-8		
Sample ID	SC-1	SC-1/33	SC-1/33	SC-2	SC-2	SC-2	SC-2/34	SC-2/34	W-7	W-7/28	W-7/28	W-8	W-8/27	W-8/27
Sample Date	870720	861010	870720	870720	870720	870720	861010	870720	870718	861008	861008	870718	861008	861008
Lab Sample ID	SC-1			SC-2	SC-2	SC-2			W-7			W-8		
Sample Type	MS1	N1	N1	LB1	LR1	LR1	N1	N1	MS1	N1	N1	MS1	N1	N1
Units	%	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	%	mg/l	mg/l	%	mg/l	mg/l
BARIUM	NR	NR	NR	NR	NR	NR	NR	NR	NR	.12	NR	NR	.056	NR
BERYLLIUM	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	94	NR	NR
BROMIDE	NR	NR	NR	NR	NR	NR	NR	NR	114	NR	.7	NR	NR	.3
CALCIUM	NR	NR	NR	NR	NR	NR	NR	NR	NR	120	NR	NR	80	NR
CADMIUM	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	83	NR	NR
CHROMIUM	NR	NR	NR	NR	NR	NR	NR	NR	NR	.013	NR	84	.011	NR
COBALT	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	82	NR	NR
COPPER	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	102	NR	NR
MAGNESIUM	NR	NR	NR	NR	NR	NR	NR	NR	NR	38	NR	NR	22	NR
MANGANESE	NR	NR	NR	NR	NR	NR	NR	NR	NR	.21	NR	NR	.005	NR
MOLYBDENUM	NR	NR	NR	NR	NR	NR	NR	NR	NR	.048	NR	NR	NR	NR
NICKEL	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	.02	NR
LEAD	110	.009	.009	< .005	.01	< .005	.01	.005	NR	NR	NR	NR	NR	NR
VANADIUM	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	90	NR	NR

NR = Not Reported

Recoverable Metals in Groundwater
Elmendorf AFB, AK
Black & Veatch

Location ID	BH-1	BH-3	BH-4	BH-5	BH-6	BW-1	BW-2	BW-52	
Sample ID	GN-88-0003	GN-88-0002	GN-88-0003	GN-88-0003	GN-88-0003	GN-88-0001	GN-88-0001	GN-88-0001	GN-88-0001D
Lab Sample ID	RECV	RECV	RECV	RECV	RECV	RECV	RECV	RECV	RECV
Sample Date	880830	880830	880830	880830	880830	880823	880823	880823	880823
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
ALUMINUM	101	8000	138	25	12	NR	NR	NR	NR
ARSENIC	.005	3.9	.01	.01	.007	NR	.005	NR	NR
BARIUM	.75	40	.69	.17	.13	.007	.013	NR	NR
BERYLLIUM	.003	.2	.003	.018	NR	NR	NR	NR	NR
CADMIUM	NR	NR	NR	.015	NR	NR	NR	NR	NR
CALCIUM	72	5400	51	73	75	28	10	26	26
CHROMIUM	.21	22	.18	.05	.01	NR	NR	NR	NR
COBALT	.17	7	.12	.04	.01	NR	NR	NR	NR
COPPER	.53	19	.58	.11	.078	NR	.009	NR	NR
IRON	236	16800	226	53	16	NR	NR	NR	NR
LEAD	.075	3.2	.092	.026	.066	NR	NR	NR	NR
MAGNESIUM	67	5200	61	28	24	5.4	5.7	6.7	6.7
MANGANESE	9.3	370	7	1.1	.22	.06	.019	NR	NR
MOLYBDENUM	.06	5	.06	.04	NR	NR	NR	NR	NR
NICKEL	.4	21	.35	.07	NR	NR	NR	NR	NR
POTASSIUM	6	NR	7	NR	NR	NR	NR	NR	NR
SILVER	NR	NR	NR	.013	NR	NR	NR	NR	NR
SODIUM	6.2	220	6.5	23	15	3.6	40	6.4	6.7
VANADIUM	.32	27	.33	.09	.05	NR	NR	NR	NR
ZINC	.49	34	.54	.13	.06	.01	NR	NR	NR

Note: These data have no associated laboratory QC data
NR = Not Reported
ND = Not Detected, detection limit not available

Recoverable Metals in Groundwater
Elmendorf AFB, AK
Black & Veatch

Location ID	D13-01	D13-02	D13-03	D3-01	D3-02	D3-03	GW-1A	GW-1B	GW-1C
Sample ID	GN-88-0003	GN-88-0003	GN-88-0003	GN-88-0003	GN-88-0003	GN-88-0003	GN-88-0001	GN-88-0001	GN-88-0001
Lab Sample ID	RECV	RECV	RECV	RECV	RECV	RECV	RECV	RECV	RECV
Sample Date	880809	880808	880809	880819	880819	880819	880829	880809	880809
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
ALUMINUM	21	25	536	2.4	29	1.9	93	43	8.1
ARSENIC	.012	.01	.01	.003	.01	.006	.014	.004	.004
BARIUM	.25	.26	6.4	.027	.18	.044	.78	.46	.08
BERYLLIUM	NR	NR	.02	NR	NR	NR	.003	NR	NR
CADMIUM	NR	NR	NR	NR	NR	NR	NR	NR	NR
CALCIUM	56	37	350	32	66	87	66	109	26
CHROMIUM	.04	.04	1.3	NR	.04	NR	.2	.08	.01
COBALT	.03	.06	1.3	NR	.02	NR	.25	.09	.02
COPPER	.21	.24	5.5	.008	.063	NR	.65	.32	.051
IRON	60	64	1320	3.9	45	3.1	220	87	14
LEAD	.029	.031	.062	.003	.019	.002	.068	NR	.013
MAGNESIUM	20	18	314	7.3	25	21	62	40	8.4
MANGANESE	8.5	8.6	79	.24	1.3	.93	13	8.1	.85
MOLYBDENUM	NR	NR	NR	NR	NR	NR	.06	NR	NR
NICKEL	.11	.14	3.3	NR	.08	NR	.45	.21	.03
POTASSIUM	NR	NR	NR	NR	NR	NR	5	NR	NR
SILVER	NR	NR	NR	NR	NR	NR	NR	NR	NR
SODIUM	9.3	6.3	8.4	3.6	7	8.6	5.8	10	3.1
VANADIUM	.09	.09	NR	NR	.08	NR	.32	NR	.02
ZINC	.1	.15	3.1	.02	.14	.01	.47	.22	.04

Note: These data have no associated laboratory QC data
NR = Not Reported
ND = Not Detected, detection limit not available

Recoverable Metals in Groundwater
Elmendorf AFB, AK
Black & Veatch

Location ID	GW-2A	GW-2B	GW-2C	GW-7A	IS1-01	IS2-01	IS3-01	IS4-01	IS5-01
Sample ID	GN-88-0001	GN-88-0001	GN-88-0001	GN-88-0001	GN-88-0003	GN-88-0003	GN-88-0003	GN-88-0003	GN-88-0003
Lab Sample ID	RECV	RECV	RECV	RECV	RECV	RECV	RECV	RECV	RECV
Sample Date	880829	880809	880810	880824	880818	880817	880818	880818	880817
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
ALUMINUM	199	20	73	NR	68	80	65	75	70
ARSENIC	NR	.02	.022	NR	.019	.01	.01	.016	.01
BARIUM	1.7	.24	.87	NR	.93	1.3	.55	2.3	.63
BERYLLIUM	.005	NR	.003	NR	.004	NR	.002	.004	.003
CADMIUM	NR	NR	NR	NR	.005	NR	NR	NR	NR
CALCIUM	94	55	80	NR	272	147	205	209	92
CHROMIUM	.4	.03	.21	NR	.1	.12	.11	.05	.1
COBALT	.41	.04	.13	NR	.18	.26	.11	.39	.25
COPPER	1.2	.21	.74	NR	1.1	.69	.62	1.2	.49
IRON	400	59	179	NR	161	182	151	162	150
LEAD	.16	.028	.065	.066	.16	.004	.084	.22	.085
MAGNESIUM	112	19	50	NR	59	55	54	62	40
MANGANESE	26	8.4	15	NR	27	18	9.4	59	14
MOLYBDENUM	.1	NR	NR	NR	NR	NR	NR	NR	NR
NICKEL	.91	.11	.46	NR	.45	.58	.28	1.5	.36
POTASSIUM	7	NR	NR	NR	6	6	6	5	NR
SILVER	NR	NR	NR	NR	NR	NR	NR	NR	NR
SODIUM	6.2	9.1	13	NR	15	14	9	11	6.6
VANADIUM	.6	NR	.28	NR	.34	.3	.25	.23	.21
ZINC	.96	.09	.34	NR	.55	.51	.44	.67	.43

Note: These data have no associated laboratory QC data

NR = Not Reported

ND = Not Detected, detection limit not available

Recoverable Metals in Groundwater
Elmendorf AFB, AK
Black & Veatch

Location ID	IS6-01	IS7-01	IS8-01		NS1-01	NS1-02	NS1-03	NS1-04	NS2-01
Sample ID	GN-88-0003	GN-88-0003	GN-88-0003	GN-88-0003D	GN-88-0002	GN-88-0002	GN-88-0002	GN-88-0002	GN-88-0003
Lab Sample ID	RECV	RECV	RECV	RECV	RECV	RECV	RECV	RECV	RECV
Sample Date	880817	880817	880817	880817	880806	880806	880820	880806	880809
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
ALUMINUM	129	5.5	1.9	2	.11	NR	.28	.13	76
ARSENIC	.012	.005	.008	.004	.017	NR	NR	NR	.008
BARIUM	1.3	.14	.053	.055	.065	.042	.033	.028	.79
BERYLLIUM	.004	NR	NR	NR	NR	NR	NR	NR	.003
CADMIUM	NR	NR	NR	NR	NR	NR	NR	NR	NR
CALCIUM	159	68	100	99	94	75	32	30	69
CHROMIUM	.19	NR	NR	NR	NR	NR	NR	NR	.19
COBALT	.31	.01	NR	NR	NR	NR	NR	NR	.12
COPPER	.93	.043	.023	.026	.007	NR	.006	NR	.78
IRON	247	13	5.7	6.2	12	.32	.88	.61	193
LEAD	.097	.011	.01	.008	.01	.003	.008	.005	.067
MAGNESIUM	80	22	16	16	28	22	9.5	9.3	52
MANGANESE	29	2.2	1.9	1.6	13	.44	.51	.43	11
MOLYBDENUM	NR	NR	NR	NR	NR	NR	NR	NR	NR
NICKEL	.75	.03	.01	.01	NR	NR	NR	NR	.39
POTASSIUM	7	NR	NR	NR	NR	NR	NR	NR	5
SILVER	NR	NR	NR	NR	NR	NR	NR	NR	NR
SODIUM	8.8	8.4	6	6.1	11	8.1	11	10	8
VANADIUM	.36	.02	NR	.01	NR	NR	NR	NR	.3
ZINC	.77	.04	.02	.02	NR	NR	NR	NR	.51

Note: These data have no associated laboratory QC data

NR = Not Reported

ND = Not Detected, detection limit not available

Recoverable Metals in Groundwater
Elmendorf AFB, AK
Black & Veatch

Location ID	NS2-02	SC-4	SC-5	SC-6	SP14-02	SP15-01	SP15-02		W-1
Sample ID	GN-88-0003	GN-88-0002	GN-88-0002	GN-88-0002	GN-88-0003	GN-88-0003	GN-88-0003	GN-88-0003D	GN-88-0001
Lab Sample ID	RECV	RECV	RECV	RECV	RECV	RECV	RECV	RECV	RECV
Sample Date	880808	880808	880808	880808	880824	880822	880822	880822	880809
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
ALUMINUM	53	NR	NR	NR	NR	NR	NR	NR	.09
ARSENIC	.01	NR	NR	NR	NR	NR	NR	NR	.007
BARIUM	.56	NR	NR	NR	NR	NR	NR	NR	.018
BERYLLIUM	NR	NR	NR	NR	NR	NR	NR	NR	NR
CADMIUM	NR	NR	NR	NR	NR	NR	NR	NR	NR
CALCIUM	58	21	20	17	NR	NR	NR	NR	26
CHROMIUM	.11	NR	NR	NR	NR	NR	NR	NR	NR
COBALT	.13	NR	NR	NR	NR	NR	NR	NR	NR
COPPER	.41	NR	NR	NR	NR	NR	NR	NR	.009
IRON	116	.18	.17	.21	NR	NR	NR	NR	8.3
LEAD	.052	NR	.019	.005	.03	.027	.12	.11	NR
MAGNESIUM	53	3.5	3.1	2.6	NR	NR	NR	NR	7.1
MANGANESE	14	.15	.04	.06	NR	NR	NR	NR	2.6
MOLYBDENUM	NR	NR	NR	NR	NR	NR	NR	NR	NR
NICKEL	.26	NR	NR	NR	NR	NR	NR	NR	NR
POTASSIUM	NR	NR	NR	NR	NR	NR	NR	NR	NR
SILVER	NR	NR	NR	NR	NR	NR	NR	NR	NR
SODIUM	8.1	2.4	2.4	2	NR	NR	NR	NR	4.7
VANADIUM	.18	NR	NR	NR	NR	NR	NR	NR	NR
ZINC	.28	NR	NR	NR	NR	NR	NR	NR	NR

Note: These data have no associated laboratory QC data

NR = Not Reported

ND = Not Detected, detection limit not available

Recoverable Metals in Groundwater
Elmendorf AFB, AK
Black & Veatch

Location ID	W-11	W-13		W-17	W-18	W-19	W-5		W-6
Sample ID	GN-88-0001	GN-88-0001	GN-88-0001D	GN-88-0001	GN-88-0001	GN-88-0001	GN-88-0001	GN-88-0001D	GN-88-0001
Lab Sample ID	RECV	RECV	RECV	RECV	RECV	RECV	RECV	RECV	RECV
Sample Date	880822	880822	880822	880824	880818	880818	880810	880810	880810
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
ALUMINUM	17	17	21	NR	.44	2	7.8	.72	26
ARSENIC	.015	.007	.007	NR	.008	NR	.004	.004	.016
BARIUM	.39	.19	.2	NR	.044	.052	.15	.15	.2
BERYLLIUM	NR	NR	NR	NR	NR	NR	NR	NR	NR
CADMIUM	NR	NR	NR	NR	NR	NR	NR	NR	NR
CALCIUM	86	109	110	NR	164	142	30	30	31
CHROMIUM	.03	.03	.05	NR	NR	NR	.02	.02	.07
COBALT	.02	.02	.02	NR	NR	.01	NR	NR	.04
COPPER	.1	.067	.066	NR	.009	.016	.18	.17	.11
IRON	38	29	37	NR	5	4.6	11	10	67
LEAD	.12	.076	.076	.004	.002	.003	.15	.14	.1
MAGNESIUM	24	34	36	NR	17	15	7.5	7.5	17
MANGANESE	4.6	11	9.7	NR	4.4	2.5	.74	.73	6
MOLYBDENUM	NR	.04	.04	NR	NR	NR	NR	NR	NR
NICKEL	.04	.04	.05	NR	.01	.01	NR	NR	.09
POTASSIUM	8	7	8	NR	NR	NR	NR	NR	NR
SILVER	NR	NR	NR	NR	NR	NR	NR	NR	NR
SODIUM	13	18	17	NR	5.3	4.8	5.1	5.2	4.5
VANADIUM	.07	.05	.06	NR	NR	NR	.02	.02	.1
ZINC	.1	.08	.09	NR	.01	.02	.34	.34	.12

Note: These data have no associated laboratory QC data
NR = Not Reported
ND = Not Detected, detection limit not available

Total Metals in Groundwater
Elmendorf AFB, AK
Black & Veatch

Location ID	BH-1	BH-3	BH-4	BH-5	BH-6	D13-01		D13-03
Sample ID	GN-88-0003	GN-88-0002	GN-88-0003	GN-88-0003	GN-88-0003	GN-88-0003	GN-88-0003	GN-88-0003
Laboratory ID	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	6010	TOTAL	6010
Sample Date	880830	880830	880830	880830	880830	880809	880809	880809
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
BARIUM	NR	NR	NR	NR	NR	NR	NR	NR
CALCIUM	NR	NR	NR	NR	NR	NR	NR	NR
CHROMIUM	NR	NR	NR	NR	NR	NR	NR	NR
CYANIDE	NR	NR	NR	NR	NR	NR	NR	NR
MERCURY	.0016	.06	.0017	.0002	.0003	NR	.0006	NR
MAGNESIUM	NR	NR	NR	NR	NR	NR	NR	NR
MANGANESE	NR	NR	NR	NR	NR	NR	NR	NR
MOLYBDENUM	NR	NR	NR	NR	NR	NR	NR	NR
NICKEL	NR	NR	NR	NR	NR	NR	NR	NR
LEAD	NR	NR	NR	NR	NR	NR	NR	NR
VANADIUM	NR	NR	NR	NR	NR	NR	NR	17
ZINC	NR	NR	NR	NR	NR	1	NR	NR

Note: These data have no associated laboratory QC data
NR = Not Reported
ND = Not Detected, detection limit not available

Total Metals in Groundwater
Elmendorf AFB, AK
Black & Veatch

Location ID	D13-03		D3-02	FTA					
Sample ID	GN-88-0003	GN-88-0003R	GN-88-0003	FP51-WS1	FP52-WS1	FP53-WS1	FP54-WS1	FP55-WS1	FP56-WS1
Laboratory ID	TOTAL	TOTAL	TOTAL						
Sample Date	880809	880819	880819	880704	880703	880703	880703	880703	880704
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
BARIUM	NR	NR	NR	NR	NR	NR	NR	NR	NR
CALCIUM	NR	NR	NR	NR	NR	NR	NR	NR	NR
CHROMIUM	NR	NR	NR	NR	NR	NR	NR	NR	NR
CYANIDE	NR	NR	NR	NR	NR	NR	NR	NR	NR
MERCURY	.017	.0002	.0002	NR	NR	NR	NR	NR	NR
MAGNESIUM	NR	NR	NR	NR	NR	NR	NR	NR	NR
MANGANESE	NR	NR	NR	NR	NR	NR	NR	NR	NR
MOLYBDENUM	NR	NR	NR	NR	NR	NR	NR	NR	NR
NICKEL	NR	NR	NR	NR	NR	NR	NR	NR	NR
LEAD	NR	NR	NR	NR	NR	.25	.03	.04	.08
VANADIUM	NR	NR	NR	NR	NR	NR	NR	NR	NR
ZINC	NR	NR	NR	NR	NR	NR	NR	NR	NR

Note: These data have no associated laboratory QC data
NR = Not Reported
ND = Not Detected, detection limit not available

Total Metals in Groundwater
Elmendorf AFB, AK
Black & Veatch

Location ID	GW-1A	GW-1B	GW-1C	GW-2A	GW-2B	GW-2C	IS1-01		IS2-01
Sample ID	GN-88-0001	GN-88-0001	GN-88-0001	GN-88-0001	GN-88-0001	GN-88-0001	GN-88-0003	GN-88-0003	GN-88-0003
Laboratory ID	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	335.3	TOTAL	335.3
Sample Date	880829	880809	880809	880829	880809	880810	880818	880818	880817
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
BARIUM	NR	NR	NR	NR	NR	NR	NR	NR	NR
CALCIUM	NR	NR	NR	NR	NR	NR	NR	NR	NR
CHROMIUM	NR	NR	NR	NR	NR	NR	NR	NR	NR
CYANIDE	NR	NR	NR	NR	NR	NR	.02	NR	.02
MERCURY	.0016	.0006	.001	.004	.0005	.0008	NR	.007	NR
MAGNESIUM	NR	NR	NR	NR	NR	NR	NR	NR	NR
MANGANESE	NR	NR	NR	NR	NR	NR	NR	NR	NR
MOLYBDENUM	NR	NR	NR	NR	NR	NR	NR	NR	NR
NICKEL	NR	NR	NR	NR	NR	NR	NR	NR	NR
LEAD	NR	NR	NR	NR	NR	NR	NR	NR	NR
VANADIUM	NR	NR	NR	NR	NR	NR	NR	NR	NR
ZINC	NR	NR	NR	NR	NR	NR	NR	NR	NR

Note: These data have no associated laboratory QC data
NR = Not Reported
ND = Not Detected, detection limit not *available*

Total Metals in Groundwater
Elmendorf AFB, AK
Black & Veatch

Location ID	IS2-01	IS3-01		IS4-01		IS5-01		IS6-01	
Sample ID	GN-88-0003	GN-88-0003	GN-88-0003	GN-88-0003	GN-88-0003	GN-88-0003	GN-88-0003	GN-88-0003	GN-88-0003
Laboratory ID	TOTAL	335.3	TOTAL	335.3	TOTAL	335.3	TOTAL	335.3	TOTAL
Sample Date	880817	880818	880818	880818	880818	880817	880817	880817	880817
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
BARIUM	NR	NR	NR	NR	NR	NR	NR	NR	NR
CALCIUM	NR	NR	NR	NR	NR	NR	NR	NR	NR
CHROMIUM	NR	NR	NR	NR	NR	NR	NR	NR	NR
CYANIDE	NR	.01	NR	.01	NR	.02	NR	.01	NR
MERCURY	.0032	NR	.004	NR	.006	NR	.0038	NR	.0048
MAGNESIUM	NR	NR	NR	NR	NR	NR	NR	NR	NR
MANGANESE	NR	NR	NR	NR	NR	NR	NR	NR	NR
MOLYBDENUM	NR	NR	NR	NR	NR	NR	NR	NR	NR
NICKEL	NR	NR	NR	NR	NR	NR	NR	NR	NR
LEAD	NR	NR	NR	NR	NR	NR	NR	NR	NR
VANADIUM	NR	NR	NR	NR	NR	NR	NR	NR	NR
ZINC	NR	NR	NR	NR	NR	NR	NR	NR	NR

Note: These data have no associated laboratory QC data
NR = Not Reported
ND = Not Detected, detection limit not available

Total Metals in Groundwater
Elmendorf AFB, AK
Black & Veatch

Location ID	IS7-01	IS8-01		NS1-01		NS1-02	NS1-03	
Sample ID	GN-88-0003	GN-88-0003	GN-88-0003D	GN-88-0002	GN-88-0002R	GN-88-0002	GN-88-0002	GN-88-0002R
Laboratory ID	TOTAL	TOTAL	TOTAL	335.3	TOTAL	335.3	TOTAL	TOTAL
Sample Date	880817	880817	880817	880806	880820	880806	880820	880806
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
BARIUM	NR	NR	NR	NR	NR	NR	NR	NR
CALCIUM	NR	NR	NR	NR	NR	NR	NR	NR
CHROMIUM	NR	NR	NR	NR	NR	NR	NR	NR
CYANIDE	NR	NR	NR	.02	NR	.02	.01	NR
MERCURY	.0002	.0002	.0001	NR	.0002	NR	NR	.0001
MAGNESIUM	NR	NR	NR	NR	NR	NR	NR	NR
MANGANESE	NR	NR	NR	NR	NR	NR	NR	NR
MOLYBDENUM	NR	NR	NR	NR	NR	NR	NR	NR
NICKEL	NR	NR	NR	NR	NR	NR	NR	NR
LEAD	NR	NR	NR	NR	NR	NR	NR	NR
VANADIUM	NR	NR	NR	NR	NR	NR	NR	NR
ZINC	NR	NR	NR	NR	NR	NR	NR	NR

Note: These data have no associated laboratory QC data
NR = Not Reported
ND = Not Detected, detection limit not available

Total Metals in Groundwater
Elmendorf AFB, AK
Black & Veatch

Location ID	NS2-01	NS2-02		SC-1	SC-2	SC-3	W-1	W-11	W-13
Sample ID	GN-88-0003	GN-88-0002R	GN-88-0003	SC-1/33	SC-2/34	SC-3/32	GN-88-0001	GN-88-0001	GN-88-0001
Laboratory ID	TOTAL	TOTAL	TOTAL	239.2	239.2	239.2	TOTAL	TOTAL	TOTAL
Sample Date	880809	880813	880808	861010	861010	861010	880809	880822	880822
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
BARIUM	NR	NR	NR	NR	NR	NR	NR	NR	NR
CALCIUM	NR	NR	NR	NR	NR	NR	NR	NR	NR
CHROMIUM	NR	NR	NR	NR	NR	NR	NR	NR	NR
CYANIDE	NR	NR	NR	NR	NR	NR	NR	NR	NR
MERCURY	.005	.0002	.001	NR	NR	NR	.0003	.0004	.0002
MAGNESIUM	NR	NR	NR	NR	NR	NR	NR	NR	NR
MANGANESE	NR	NR	NR	NR	NR	NR	NR	NR	NR
MOLYBDENUM	NR	NR	NR	NR	NR	NR	NR	NR	NR
NICKEL	NR	NR	NR	NR	NR	NR	NR	NR	NR
LEAD	NR	NR	NR	.009	.01	.005	NR	NR	NR
VANADIUM	NR	NR	NR	NR	NR	NR	NR	NR	NR
ZINC	NR	NR	NR	NR	NR	NR	NR	NR	NR

Note: These data have no associated laboratory QC data
NR = Not Reported
ND = Not Detected, detection limit not available

Total Metals in Groundwater
Elmendorf AFB, AK
Black & Veatch

Location ID	W-13	W-15	W-18	W-5		W-6	W-7	W-8
Sample ID	GN-88-0001D	GN-84-0285	GN840288	GN-88-0001	GN-88-0001D	GN-88-0001	W-7/28	W-8/27
Laboratory ID	TOTAL		239.2	TOTAL	TOTAL	TOTAL	200.7	200.7
Sample Date	880822	890622	840629	880810	880810	880810	861008	861008
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
BARIUM	NR	NR	NR	NR	NR	NR	.12	.056
CALCIUM	NR	NR	NR	NR	NR	NR	120	80
CHROMIUM	NR	NR	NR	NR	NR	NR	.013	.011
CYANIDE	NR	NR	NR	NR	NR	NR	NR	NR
MERCURY	.0002	NR	NR	.0002	.0001	.0008	NR	NR
MAGNESIUM	NR	NR	NR	NR	NR	NR	38	22
MANGANESE	NR	NR	NR	NR	NR	NR	.21	.005
MOLYBDENUM	NR	NR	NR	NR	NR	NR	.048	NR
NICKEL	NR	NR	NR	NR	NR	NR	NR	.02
LEAD	NR	.01 ND	.02	NR	NR	NR	NR	NR
VANADIUM	NR	NR	NR	NR	NR	NR	NR	NR
ZINC	NR	NR	NR	NR	NR	NR	NR	NR

Note: These data have no associated laboratory QC data
NR = Not Reported
ND = Not Detected, detection limit not available

Dissolved Metals in Water
Elmendorf AFB, AK
Black and Veatch

Location ID	BH-1	BH-3	BH-4	BH-5	BH-6	BW-1	BW-2	BW-52
Sample ID	GN-88-0003	GN-88-0002	GN-88-0003	GN-88-0003	GN-88-0003	GN-88-0001	GN-88-0001	GN-88-0001
Lab Sample ID	DISS	DISS	DISS	DISS	DISS	DISS	DISS	DISS
Sample Date	880830	880830	880830	880830	880830	880823	880823	880823
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
ALUMINUM	.23	NR	NR	NR	NR	NR	NR	NR
ANTIMONY	NR	NR	NR	NR	NR	NR	NR	NR
ARSENIC	NR	NR	NR	.004	NR	NR	.005	NR
BARIUM	.044	.055	.081	.12	.07	.008	.013	NR
CADMIUM	NR	NR	NR	NR	NR	NR	NR	NR
CALCIUM	24	78	20	67	75	29	11	27
CHROMIUM	NR	NR	NR	NR	NR	NR	NR	NR
COBALT	NR	NR	NR	NR	NR	NR	NR	NR
COPPER	NR	NR	NR	NR	.009	NR	.006	NR
IRON	.25	NR	NR	.18	NR	NR	NR	NR
LEAD	NR	NR	NR	NR	NR	NR	NR	NR
MAGNESIUM	3.7	24	5.9	18	19	5.7	5.9	7.1
MANGANESE	.036	.92	.096	.28	NR	.06	.018	NR
MOLYBDENUM	NR	.02	NR	NR	NR	NR	NR	NR
NICKEL	NR	NR	NR	NR	NR	NR	NR	NR
POTASSIUM	NR	7	NR	NR	NR	NR	NR	NR
SELENIUM	NR	NR	NR	NR	NR	NR	NR	NR
SODIUM	11	198	8.5	28	16	3.8	41	6.5
VANADIUM	NR	NR	NR	NR	NR	NR	NR	NR
ZINC	NR	NR	.06	.02	.03	.02	NR	NR

Note: These data have no associated laboratory QC data
NR = Not Reported
ND = Not Detected, detection limit not available

Dissolved Metals in Water
Elmendorf AFB, AK
Black and Veatch

Location ID	BW-52	D13-01	D13-02		D13-03		D3-01	D3-02
Sample ID	GN-88-0001D	GN-88-0002R	GN-88-0003	GN-88-0003R	GN-88-0003	GN-88-0003R	GN-88-0003	GN-88-0003
Lab Sample ID	DISS	DISS	DISS	DISS	DISS	DISS	DISS	DISS
Sample Date	880823	880813	880808	880815	880809	880819	880819	880819
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
ALUMINUM	NR	NR	NR	NR	NR	.17	NR	NR
ANTIMONY	NR	NR	NR	NR	NR	NR	NR	NR
ARSENIC	NR	NR	.01	NR	NR	NR	NR	.005
BARIUM	NR	.016	NR	.021	NR	.15	.011	.13
CADMIUM	NR	NR	NR	NR	NR	NR	NR	NR
CALCIUM	27	29	NR	33	NR	27	30	38
CHROMIUM	NR	NR	NR	NR	NR	NR	NR	NR
COBALT	NR	NR	NR	.02	NR	NR	NR	NR
COPPER	NR	NR	NR	NR	NR	NR	NR	NR
IRON	NR	2.6	NR	4.5	NR	.33	NR	NR
LEAD	NR	NR	.02	NR	.02	NR	NR	NR
MAGNESIUM	7	5.8	NR	7	NR	5.1	6.5	9.6
MANGANESE	NR	1.3	NR	7.4	NR	.052	.14	.2
MOLYBDENUM	NR	NR	NR	NR	NR	NR	NR	NR
NICKEL	NR	NR	NR	.02	NR	NR	NR	NR
POTASSIUM	NR	NR	NR	NR	NR	NR	NR	NR
SELENIUM	NR	NR	NR	NR	NR	NR	NR	.002
SODIUM	6.9	3.7	NR	6.3	NR	22	4.4	9.5
VANADIUM	NR	NR	NR	NR	NR	NR	NR	NR
ZINC	NR	.02	NR	NR	NR	.04	NR	NR

Note: These data have no associated laboratory QC data
NR = Not Reported
ND = Not Detected, detection limit not available

Dissolved Metals in Water
Elmendorf AFB, AK
Black and Veatch

Location ID	D3-03	GW-1A		GW-1B	GW-1C	GW-2A	GW-2B	GW-2B
Sample ID	GN-88-0003	GN-88-0001	GN-88-0001	GN-88-0001R	GN-88-0001R	GN-88-0001	GN-88-0001	GN-88-0001R
Lab Sample ID	DISS	DISS	DISS	DISS	DISS	DISS	DISS	DISS
Sample Date	880819	880829	880809	880819	880815	880829	880809	880819
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
ALUMINUM	NR	NR	15	NR	NR	NR	5.5	.08
ANTIMONY	NR	NR	NR	NR	NR	NR	NR	NR
ARSENIC	NR	NR	.006	.003	NR	NR	.014	.012
BARIUM	.033	.072	.25	.17	.008	.058	.11	.22
CADMIUM	NR	NR	NR	NR	NR	NR	NR	NR
CALCIUM	87	22	109	87	27	19	54	40
CHROMIUM	NR	NR	.01	NR	NR	NR	NR	NR
COBALT	NR	NR	.09	NR	NR	NR	.03	.01
COPPER	NR	NR	.27	NR	NR	NR	.14	NR
IRON	NR	NR	27	NR	.05	NR	37	26
LEAD	NR	NR	.016	NR	NR	NR	.018	NR
MAGNESIUM	20	3.9	26	19	4.8	3.1	13	9.3
MANGANESE	.91	NR	9	NR	.095	NR	8.7	7.1
MOLYBDENUM	NR	NR	NR	NR	NR	NR	NR	NR
NICKEL	NR	NR	.15	NR	NR	NR	.06	NR
POTASSIUM	NR	NR	NR	NR	NR	NR	NR	NR
SELENIUM	.002	NR	NR	.002	NR	NR	NR	NR
SODIUM	9.9	8.3	9.5	13	3	8.9	9.5	14
VANADIUM	NR	NR	.15	NR	NR	NR	.09	NR
ZINC	NR	NR	.11	.12	NR	NR	.04	.07

Note: These data have no associated laboratory QC data
NR = Not Reported
ND = Not Detected, detection limit not available

Dissolved Metals in Water
Elmendorf AFB, AK
Black and Veatch

Location ID	GW-2C		GW-7A	IS1-01	IS2-01	IS3-01	IS4-01	IS5-01
Sample ID	GN-88-0001	GN-88-0001R	GN-88-0001	GN-88-0003	GN-88-0003	GN-88-0003	GN-88-0003	GN-88-0003
Lab Sample ID	DISS	DISS	DISS	DISS	DISS	DISS	DISS	DISS
Sample Date	880810	880816	880824	880818	880817	880818	880818	880817
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
ALUMINUM	NR	NR	NR	NR	NR	NR	NR	NR
ANTIMONY	NR	NR	NR	NR	NR	NR	NR	NR
ARSENIC	.031	.003	NR	.01	NR	NR	NR	NR
BARIUM	NR	.032	NR	.17	.16	.13	.16	.11
CADMIUM	NR	NR	NR	NR	NR	NR	NR	NR
CALCIUM	NR	37	NR	169	89	157	141	58
CHROMIUM	NR	NR	NR	NR	NR	NR	NR	NR
COBALT	NR	.02	NR	.01	NR	NR	NR	NR
COPPER	NR	NR	NR	NR	NR	NR	NR	NR
IRON	NR	4.8	NR	3.3	NR	NR	NR	NR
LEAD	.04	NR	.066	NR	NR	NR	NR	NR
MAGNESIUM	NR	8.4	NR	20	12	18	19	6.9
MANGANESE	NR	7.6	NR	6.7	.009	4.5	.52	.016
MOLYBDENUM	NR	NR	NR	NR	NR	NR	NR	NR
NICKEL	NR	.02	NR	.01	NR	NR	NR	NR
POTASSIUM	NR	NR	NR	NR	NR	NR	NR	NR
SELENIUM	NR	NR	NR	NR	NR	NR	NR	NR
SODIUM	NR	11	NR	20	20	12	15	14
VANADIUM	NR	NR	NR	NR	NR	NR	NR	NR
ZINC	NR	.02	NR	.06	NR	.05	.04	.03

Note: These data have no associated laboratory QC data
NR = Not Reported
ND = Not Detected, detection limit not available

Dissolved Metals in Water
Elmendorf AFB, AK
Black and Veatch

Location ID	IS6-01	IS7-01	IS8-01		NS1-01		NS1-02	NS1-03
Sample ID	GN-88-0003	GN-88-0003	GN-88-0003	GN-88-0003D	GN-88-0002	GN-88-0002R	GN-88-0002R	GN-88-0002
Lab Sample ID	DISS	DISS	DISS	DISS	DISS	DISS	DISS	DISS
Sample Date	880817	880817	880817	880817	880806	880820	880820	880820
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
ALUMINUM	NR	NR	NR	NR	NR	NR	NR	NR
ANTIMONY	NR	NR	NR	NR	NR	NR	NR	NR
ARSENIC	NR	NR	NR	.004	.011	.014	NR	NR
BARIUM	.082	.019	.037	.037	NR	.11	.11	NR
CADMIUM	NR	NR	NR	NR	NR	NR	NR	NR
CALCIUM	76	65	99	100	NR	86	53	NR
CHROMIUM	NR	NR	NR	NR	NR	NR	NR	NR
COBALT	NR	NR	NR	NR	NR	NR	NR	NR
COPPER	NR	NR	NR	NR	NR	NR	NR	NR
IRON	NR	NR	1.4	1	NR	9.3	.11	NR
LEAD	NR	NR	NR	NR	NR	NR	NR	.004
MAGNESIUM	8.3	18	16	16	NR	26	15	NR
MANGANESE	1.2	.43	1.6	1.9	NR	12	.32	NR
MOLYBDENUM	NR	NR	NR	NR	NR	NR	NR	NR
NICKEL	NR	NR	NR	NR	NR	NR	NR	NR
POTASSIUM	NR	NR	NR	NR	NR	NR	NR	NR
SELENIUM	NR	NR	NR	NR	NR	NR	NR	NR
SODIUM	11	9.5	7.3	7.8	NR	14	12	NR
VANADIUM	NR	NR	NR	NR	NR	NR	NR	NR
ZINC	.02	NR	NR	NR	NR	.04	.01	NR

Note: These data have no associated laboratory QC data
NR = Not Reported
ND = Not Detected, detection limit not available

Dissolved Metals in Water
***Elmendorf* AFB, AK**
Black and Veatch

Location ID	NS1-03	NS1-04		NS2-01		NS2-02		SC-4
Sample ID	GN-88-0002R	GN-88-0002	GN-88-0002R	GN-88-0002R	GN-88-0003	GN-88-0002R	GN-88-0003	GN-88-0002R
Lab Sample ID	DISS	DISS	DISS	DISS	DISS	DISS	DISS	DISS
Sample Date	880806	880806	880820	880813	880809	880813	880808	880820
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
ALUMINUM	NR	NR	NR	.35	NR	6.4	NR	NR
ANTIMONY	NR	NR	NR	NR	.025	NR	NR	NR
ARSENIC	.003	NR	.003	.004	NR	.003	NR	NR
BARIUM	.025	NR	.12	.043	NR	.081	NR	.008
CADMIUM	NR	NR	NR	NR	NR	NR	NR	NR
CALCIUM	29	NR	28	41	NR	45	NR	28
CHROMIUM	NR	NR	NR	NR	NR	NR	NR	NR
COBALT	NR	NR	NR	NR	NR	.01	NR	NR
COPPER	.01	NR	.01	.013	NR	.056	NR	NR
IRON	.13	NR	.13	8.2	NR	13	NR	NR
LEAD	NR	.002	NR	.003	.05	.007	.02	NR
MAGNESIUM	7.7	NR	7.1	9.7	NR	10	NR	4.5
MANGANESE	.3	NR	.23	5.7	NR	2.3	NR	.2
MOLYBDENUM	NR	NR	NR	NR	NR	NR	NR	NR
NICKEL	NR	NR	NR	.01	NR	.03	NR	NR
POTASSIUM	NR	NR	NR	NR	NR	NR	NR	NR
SELENIUM	NR	NR	NR	NR	NR	NR	NR	NR
SODIUM	8.2	NR	12	21	NR	7	NR	2.6
VANADIUM	NR	NR	NR	NR	NR	.02	NR	NR
ZINC	.03	NR	.01	.04	NR	.04	NR	NR

Note: These data have no associated laboratory QC data
NR = Not Reported
ND = Not Detected, detection limit not available

Dissolved Metals in Water
Elmendorf AFB, AK
Black and Veatch

Location ID	SC-5	SC-6	SP14-01	SP14-02	W-1	W-11	W-13	
Sample ID	GN-88-0002R	GN-88-0002R	GN-88-0003	GN-88-0003	GN-88-0001R	GN-88-0001	GN-88-0001	GN-88-0001D
Lab Sample ID	DISS	DISS	DISS	DISS	DISS	DISS	DISS	DISS
Sample Date	880820	880820	880824	880824	880815	880822	880822	880822
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
ALUMINUM	NR	NR	NR	NR	.06	NR	NR	NR
ANTIMONY	NR	NR	NR	NR	NR	NR	NR	NR
ARSENIC	NR	NR	NR	NR	.004	.02	.004	.004
BARIUM	.008	.009	NR	NR	.019	.2	.15	.1
CADMIUM	NR	NR	NR	NR	NR	NR	NR	NR
CALCIUM	21	22	NR	NR	33	58	105	104
CHROMIUM	NR	NR	NR	NR	NR	NR	NR	NR
COBALT	NR	NR	NR	NR	NR	NR	NR	NR
COPPER	NR	NR	NR	NR	NR	NR	NR	NR
IRON	NR	NR	NR	NR	7.1	NR	NR	NR
LEAD	.002	NR	.052	.065	NR	NR	NR	NR
MAGNESIUM	3.1	3.2	NR	NR	7.8	18	26	26
MANGANESE	.033	.078	NR	NR	3	2.7	4.9	5
MOLYBDENUM	NR	NR	NR	NR	NR	NR	NR	NR
NICKEL	NR	NR	NR	NR	NR	NR	NR	NR
POTASSIUM	NR	NR	NR	NR	NR	7	7	7
SELENIUM	NR	NR	NR	NR	NR	NR	NR	NR
SODIUM	2.4	2.4	NR	NR	5.4	16	21	16
VANADIUM	NR	NR	NR	NR	NR	NR	NR	NR
ZINC	NR	NR	NR	NR	NR	.04	.04	.02

Note: These data have no associated laboratory QC data
NR = Not Reported
ND = Not Detected, detection limit not available

Dissolved Metals in Water
Elmendorf AFB, AK
Black and Veatch

Location ID	W-17		W-18	W-19	W-5			
Sample ID	GN-88-0001	GN-88-0001D	GN-88-0001	GN-88-0001	GN-88-0001	GN-88-0001D	GN-88-0001DU	GN-88-0001R
Lab Sample ID	DISS	DISS	DISS	DISS	DISS	DISS	DISS	DISS
Sample Date	880824	880824	880818	880818	880810	880810	880816	880816
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
ALUMINUM	NR	NR	NR	NR	NR	NR	.06	NR
ANTIMONY	NR	NR	NR	NR	NR	NR	NR	NR
ARSENIC	NR	NR	.01	NR	.004	NR	NR	NR
BARIUM	NR	NR	.042	.03	NR	NR	.015	.022
CADMIUM	NR	NR	.013	NR	NR	NR	NR	NR
CALCIUM	NR	NR	166	137	NR	NR	25	27
CHROMIUM	NR	NR	NR	NR	NR	NR	NR	NR
COBALT	NR	NR	NR	NR	NR	NR	NR	NR
COPPER	NR	NR	NR	NR	NR	NR	NR	NR
IRON	NR	NR	4.8	NR	NR	NR	NR	NR
LEAD	.003	.007	NR	NR	.14	.027	NR	NR
MAGNESIUM	NR	NR	18	14	NR	NR	4.4	4.8
MANGANESE	NR	NR	4.5	1.7	NR	NR	.084	.072
MOLYBDENUM	NR	NR	NR	NR	NR	NR	NR	NR
NICKEL	NR	NR	NR	NR	NR	NR	NR	NR
POTASSIUM	NR	NR	NR	NR	NR	NR	NR	NR
SELENIUM	NR	NR	NR	NR	NR	NR	NR	NR
SODIUM	NR	NR	6	4.4	NR	NR	3.6	4.2
VANADIUM	NR	NR	NR	NR	NR	NR	NR	NR
ZINC	NR	NR	NR	NR	NR	NR	.05	.06

Note: These data have no associated laboratory QC data
NR = Not Reported
ND = Not Detected, detection limit not available

Dissolved Metals in Water
Elmendorf AFB, AK
Black and Veatch

Location ID	W-6	
Sample ID	GN-88-0001	GN-88-0001R
Lab Sample ID	DISS	DISS
Sample Date	880810	880816
Units	mg/l	mg/l
ALUMINUM	NR	NR
ANTIMONY	NR	NR
ARSENIC	.027	NR
BARIUM	NR	.005
CADMIUM	NR	NR
CALCIUM	NR	22
CHROMIUM	NR	NR
COBALT	NR	NR
COPPER	NR	NR
IRON	NR	NR
LEAD	.15	NR
MAGNESIUM	NR	3.9
MANGANESE	NR	.58
MOLYBDENUM	NR	NR
NICKEL	NR	NR
POTASSIUM	NR	NR
SELENIUM	NR	NR
SODIUM	NR	3
VANADIUM	NR	NR
ZINC	NR	NR

Note: These data have no associated laboratory QC data
NR = Not Reported
ND = Not Detected, detection limit not available

PESTICIDES IN GROUNDWATER

Pesticides in Groundwater
Elmendorf AFB, AK
Black & Veatch

Location ID	IS3-01	IS4-01
Sample ID	GN-88-0003	GN-88-0003
Sample Date	880818	880818
Lab Sample ID	001318-0003	001318-0004
Units	µg/l	µg/l
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	26	2.3
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	1.7	NR

Note: These data have no associated laboratory QC data
NR = Not Reported

METALS IN SOIL

Metals In Soil
Elmendorf AFB, AK
Black & Veatch

Location ID	NS1-01	NS1-02	NS1-03	NS1-04	SC-4		SC-5	SC-6
Sample ID	GS-88-0001	GS-88-0001	GS-88-0001	GS-88-0001	GS-88-0001	GS-88-0001D	GS-88-0001	GS-88-0001
Lab Sample ID	001130-0001	001130-0002	001130-0003	001130-0005	001170-0003	001170-0003	001170-0005	001170-0010
Log Date	880806	880806	880806	880806	880808	880808	880808	880808
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
ALUMINUM	2300	15962	14773	10771	15324	15324	14309	17494
ARSENIC	NR	70	NR	NR	NR	NR	NR	NR
BARIUM	65	329	186	86	82	74	81	113
BERYLLIUM	NR	NR	.4	.2	.3	.3	.3	NR
CALCIUM	14000	23709	6818	12018	5371	5529	5854	7801
CADMIUM	NR	NR	8	NR	NR	NR	NR	NR
CHROMIUM	NR	19	117	25	30	30	29	38
COBALT	NR	19	11	9	11	11	10	14
COPPER	40	28	190	31	24	22	21	35
IRON	29500	49061	30303	21655	28752	27804	24715	30733
MERCURY	1.35	.35	.45	NR	NR	NR	NR	NR
POTASSIUM	NR	NR	NR	NR	NR	790	NR	NR
MAGNESIUM	2350	9624	8333	7370	9163	9005	7317	8747
MANGANESE	3100	13146	568	850	1311	1027	390	827
SODIUM	NR	258	265	125	221	237	260	284
NICKEL	75	47	40	27	32	30	27	33
LEAD	NR	NR	852	57	NR	NR	NR	NR
VANADIUM	20	63	57	43	52	52	49	59
ZINC	65	423	455	98	68	62	57	76

Note: These data have no associated laboratory QC data
NR = Not Reported

POL Products in Soil
Elmendorf AFB, AK
Black & Veatch

Location ID	NS1-03	SC-6
Sample ID	GS-88-0001	GS-88-0001
Sample Date	880806	880808
Lab Sample ID	001130-0003	001170-0010
Units	mg/kg	mg/kg
TOTAL PETROLEUM HYDROCARBONS	436	111

Note: These data have no associated laboratory QC data

ATTACHMENT C
BIOENVIRONMENTAL ENGINEERING
SERVICE GROUP DATA

Attachment C

Bioenvironmental Engineering Services Group Data

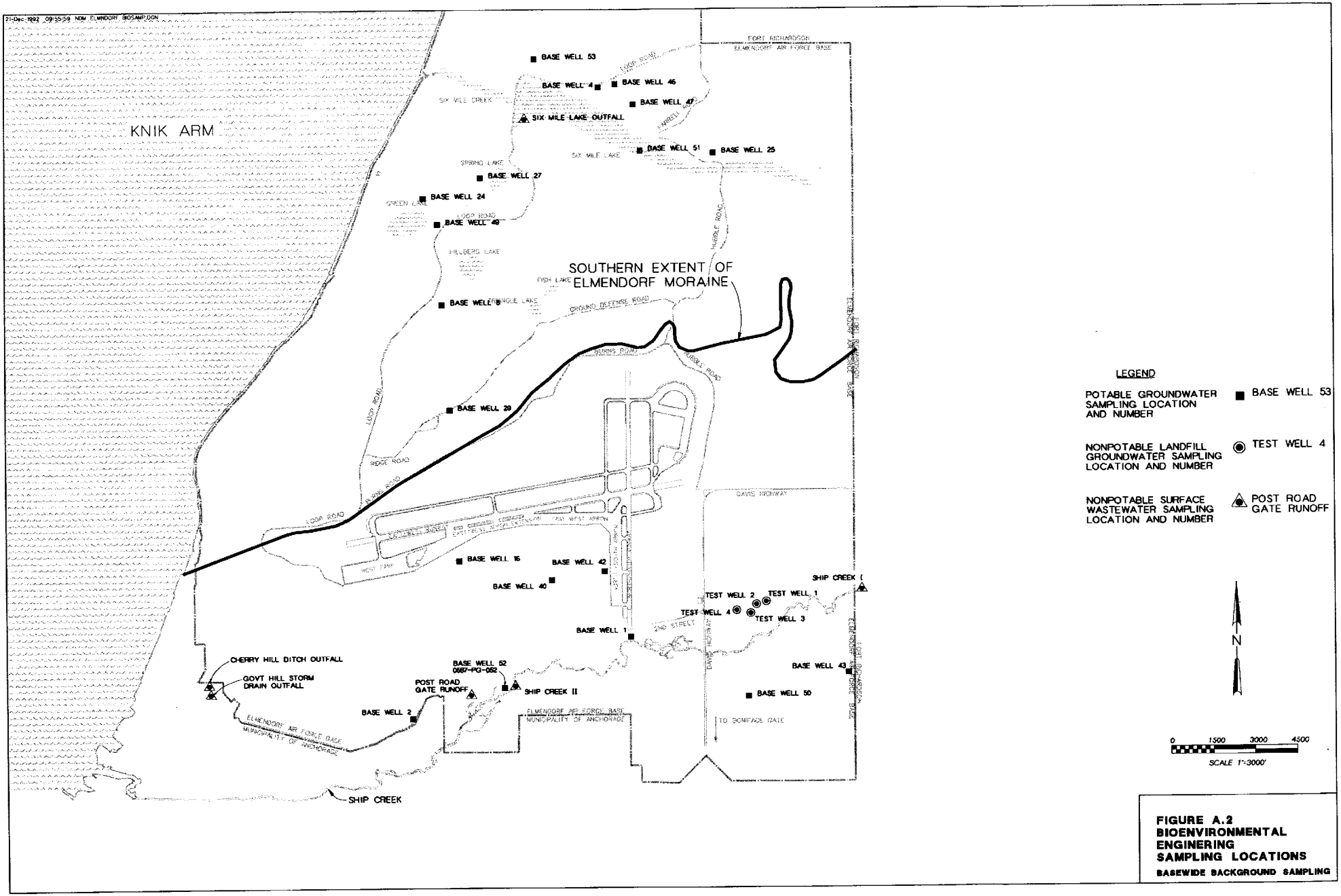


FIGURE A.2
BIOENVIRONMENTAL ENGINERING SAMPLING LOCATIONS
BASEWIDE BACKGROUND SAMPLING

METALS IN SURFACE WATER

Total Metals in Surface Water
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name				CHERRY HILL DITCH OUTFALL			
Location ID				687-NO-401			
Sample ID	D213	D219	POTW 1118	CHHILL0184	CHHILL0185	CHHILL0284	CHHILL0285
Sample Date	880605	880605	871118	840101	850101	840201	850201
Laboratory ID	06/190670	06/190674	11/180137	CHHILL0184	CHHILL0185	CHHILL0284	CHHILL0285
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
SILVER							
ALUMINUM							
ARSENIC	< .05	< .05					
BARIUM							
BERYLLIUM							
CADMIUM	.02	.07					
COBALT							
CHROMIUM	.2	.48		< .05	< .05	< .05	< .05
CHROMIUM VI							
COPPER							
IRON				1.188	1.133	1.215	2.657
MERCURY					< .001		< .001
MAGNESIUM							
MANGANESE							
MOLYBDENUM							
NICKEL							
LEAD		.07	< .03	< .02	< .02	< .02	< .02
ANTIMONY							
SELENIUM							
TITANIUM							
THALLIUM							
ZINC				< .05	< .05	< .05	< .05

< = less than detection limit
NA = Not analyzed
ND = Not detected, detection limit not reported

Total Metals in Surface Water
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	CHERRY HILL DITCH OUTFALL						
Location ID	687-NO-401						
Sample ID	CHHILL0384	CHHILL0385	CHHILL0386	CHHILL0484	CHHILL0485	CHHILL0584	CHHILL0585
Sample Date	840301	850301	860301	840401	850401	840501	850501
Laboratory ID	CHHILL0384	CHHILL0385	CHHILL0386	CHHILL0484	CHHILL0485	CHHILL0584	CHHILL0585
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
SILVER							
ALUMINUM							
ARSENIC							
BARIUM							
BERYLLIUM							
CADMIUM							
COBALT							
CHROMIUM	< .05	< .05	< .05	< .05	< .05	< .05	< .05
CHROMIUM VI							
COPPER							
IRON	.576	1.375	3.408	.552	7.64	2.068	6.4
MERCURY		< .001	< .001		< .001		< .001
MAGNESIUM							
MANGANESE							
MOLYBDENUM							
NICKEL							
LEAD	< .02	< .02	< .02	< .02	< .02	< .02	< .02
ANTIMONY							
SELENIUM							
TITANIUM							
THALLIUM							
ZINC	< .05	< .05	< .05	< .05	< .05	< .05	.064

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Total Metals in Surface Water
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	CHERRY HILL DITCH OUTFALL						
Location ID	687-NO-401						
Sample ID	CHHILL0684	CHHILL0685	CHHILL0686	CHHILL0784	CHHILL0785	CHHILL0884	CHHILL0885
Sample Date	840601	850601	860601	840701	850701	840801	850801
Laboratory ID	CHHILL0684	CHHILL0685	CHHILL0686	CHHILL0784	CHHILL0785	CHHILL0884	CHHILL0885
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
SILVER							
ALUMINUM							
ARSENIC							
BARIUM							
BERYLLIUM							
CADMIUM							
COBALT							
CHROMIUM	< .05	< .05	< .05	< .05	< .05		< .05
CHROMIUM VI							
COPPER							
IRON	1.089	< .1	5.8	3.164	3.23	1.242	8.27
MERCURY		< .001	< .001		< .001		< .001
MAGNESIUM							
MANGANESE							
MOLYBDENUM							
NICKEL							
LEAD	< .02	< .02	< .02	< .02	< .02	< .02	< .02
ANTIMONY							
SELENIUM							
TITANIUM							
THALLIUM							
ZINC	< .05	< .05	< .05	< .05	< .05	< .05	< .05

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Total Metals in Surface Water
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	CHERRY HILL DITCH OUTFALL						
Location ID	687-NO-401						
Sample ID	CHHILL0984	CHHILL0986	CHHILL1084	CHHILL1184	CHHILL1185	CHHILL1186	CHHILL1284
Sample Date	840901	860901	841001	841101	851101	861101	841201
Laboratory ID	CHHILL0984	CHHILL0986	CHHILL1084	CHHILL1184	CHHILL1185	CHHILL1186	CHHILL1284
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
SILVER							
ALUMINUM							
ARSENIC							
BARIUM							
BERYLLIUM							
CADMIUM							
COBALT							
CHROMIUM	< .05	< .05	< .05	< .05	< .05	< .05	< .05
CHROMIUM VI							
COPPER							
IRON	1.252	3.083	6.72	1.118	1.542	.435	1.681
MERCURY		< .001			< .001	< .001	
MAGNESIUM							
MANGANESE							
MOLYBDENUM							
NICKEL							
LEAD	< .02	< .02	< .02	< .02	< .02	< .02	< .02
ANTIMONY							
SELENIUM							
TITANIUM							
THALLIUM							
ZINC	< .05	< .05	< .05	< .05	< .05	< .05	< .05

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Total Metals in Surface Water
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	CHERRY HILL DITCH OUTFALL							
Location ID	687-NO-401							
Sample ID	GN870177	GN870451	GN870703	GN870845	GN880022	GN880113	GN880164	GN880208
Sample Date	870330	870624	870923	871119	880329	880629	880923	881115
Laboratory ID	021090	044152	068272	082668	020593	044508	061218	072484
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
SILVER						< .01	< .01	< .01
ALUMINUM								
ARSENIC						< .01	< .01	< .01
BARIUM								
BERYLLIUM								
CADMIUM						< .01	< .01	< .01
COBALT								
CHROMIUM	< .05			< .05	< .05	< .05	< .05	< .05
CHROMIUM VI								< .05
COPPER						< .02	< .02	< .02
IRON	8.85			.99	1.438	.804	1.733	< .66
MERCURY	< .001	< .001	< .001	< .001	< .001	< .001	< .001	< .001
MAGNESIUM								13
MANGANESE								
MOLYBDENUM								
NICKEL								< .05
LEAD	.024	< .02	< .02	< .02	< .02	< .02	< .02	< .02
ANTIMONY								
SELENIUM						< .01	< .01	< .01
TITANIUM								
THALLIUM								
ZINC	.115			< .05	< .05	< .05	< .05	< .05

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Total Metals in Surface Water
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	CHERRY HILL DITCH OUTFALL							
Location ID	687-NO-401							
Sample ID	GN890040	GN890077	GN900089	GN900142	GN900281	GN912076	GN912244	GN912342
Sample Date	890629	891030	900417	900625	901007	910423	910724	911023
Laboratory ID	021601	021601	021601	021601	021601	021601	021601	021601
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
SILVER	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
ALUMINUM								
ARSENIC	< .01	< .01	< .01	< .01	< .01	.026	< .01	< .01
BARIUM								
BERYLLIUM								
CADMIUM	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
COBALT								
CHROMIUM	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05
CHROMIUM VI	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05
COPPER	< .02	< .02	< .02	< .02	< .02	.391	< .02	< .02
IRON	.87	3.439	4.407	1.474	1.026	3.866	8.62	2.16
MERCURY	< .001	< .001	< .001	< .001	< .001	< .001	< .001	< .001
MAGNESIUM	8.2	16.7	9.7	5.1	15.3	16.5	14.9	14.49
MANGANESE							.402	
MOLYBDENUM								
NICKEL	< .05	< .05	< .05	< .05	< .05	< .05	< .05	.067
LEAD	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
ANTIMONY								
SELENIUM	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
TITANIUM								
THALLIUM								
ZINC	< .05	< .05	< .05	< .05	< .05	< .05	.06	.422

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Total Metals in Surface Water
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	GOVERNMENT HILL STORM DRAIN OUTFALL							
Location ID	687-NO-406							
Sample ID	GN870178	GN870452	GN870707	GN870844	GN880023	GN880114	GN880165	GN890063
Sample Date	870330	870624	870923	871119	880329	880629	880923	890821
Laboratory ID	021098	044155	068284	082665	020595	044513	062603	021601
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
SILVER						< .01	< .01	< .01
ALUMINUM								
ARSENIC						< .01	< .01	< .01
BARIUM								
BERYLLIUM								
CADMIUM						< .01	< .01	< .01
COBALT								
CHROMIUM	< .05			< .05	< .05	< .05	< .05	< .05
CHROMIUM VI							< .05	< .05
COPPER						< .02	< .02	< .02
IRON	14.92			.647	1.394	1	2.69	.366
MERCURY	< .001	< .001	< .001	< .001	< .001	< .001	< .001	< .001
MAGNESIUM							8.6	6.5
MANGANESE								
MOLYBDENUM								
NICKEL							< .05	< .05
LEAD	.073	< .02	< .02	< .02	< .02	< .02	< .02	< .02
ANTIMONY								
SELENIUM						< .01	< .01	< .01
TITANIUM								
THALLIUM								
ZINC	.169			< .05	< .05	< .05	< .05	< .05

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Total Metals in Surface Water
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	GOVERNMENT HILL STORM DRAIN OUTFALL							SHIP CREEK I
Location ID	687-NO-406							687-NS-404
Sample ID	GN890080	GN900101	GN900166	GN900290	GN912071	GN912239	GN912347	GN870174
Sample Date	891030	900417	900625	901007	910423	910724	911023	870330
Laboratory ID	021601	021601	021601	021601	021601	91039137	91055658	021075
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
SILVER	< .01	< .01	< .01	< .01	< .01	< .01	< .005	
ALUMINUM								
ARSENIC	< .01	< .01	< .01	< .01	< .01	.016	< .01	
BARIUM								
BERYLLIUM								
CADMIUM	< .01	< .01	< .01	.01	< .01	< .05	< .005	
COBALT								
CHROMIUM	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05
CHROMIUM VI	< .05	< .05	< .05	< .05	< .05	< .05	< .05	
COPPER	< .02	.036	.022	< .02	< .02	.093	.055	
IRON	3.541	10.23	3.991	.711	1.028	6.18	.02956	< .1
MERCURY	< .001	< .001	< .001	< .001	< .001	< .001	< .001	< .001
MAGNESIUM	16.6	18.2	16.1	10.3	16.9	13.72	< .01	
MANGANESE								
MOLYBDENUM								
NICKEL	< .05	< .05	< .05	< .05	< .05	< .05	.077	
LEAD	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
ANTIMONY								
SELENIUM	< .01	< .01	< .01	< .01	< .01	< .01	< .01	
TITANIUM								
THALLIUM								
ZINC	< .05	.063	< .05	< .05	< .05	.062	.093	< .05

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Total Metals in Surface Water
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	SHIP CREEK I								
Location ID	687-NS-404								
Sample ID	GN870449	GN870705	GN870847	GN880024	GN880098	GN880162	GN880211	GN890019	GN890039
Sample Date	870701	870923	871119	880329	880614	880923	881115	890328	890629
Laboratory ID	044147	068279	082680	020605	038858	061217	072511	018468	021601
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
SILVER						< .01	< .01	< .01	< .01
ALUMINUM									
ARSENIC					< .01	< .01	< .01	< .01	< .01
BARIUM									
BERYLLIUM									
CADMIUM						< .01	< .01	< .01	< .01
COBALT									
CHROMIUM			< .05	< .05	< .05	< .05	< .05	< .05	< .05
CHROMIUM VI							< .05	< .05	< .05
COPPER					< .02	< .02	< .02	< .02	< .02
IRON			< .1	< .1	1.22	.254	< .1	< .1	< .1
MERCURY	< .001	< .001	< .001	< .001	< .001	< .001	< .001	< .001	< .001
MAGNESIUM							3.1	4.4	2.2
MANGANESE									
MOLYBDENUM									
NICKEL					< .05		< .05	< .05	< .05
LEAD	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
ANTIMONY									
SELENIUM						< .01	< .01	< .01	< .01
TITANIUM									
THALLIUM									
ZINC			< .05	< .05	< .05	< .05	< .05	< .05	< .05

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Total Metals in Surface Water
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	SHIP CREEK I						SHIP CREEK II	
Location ID	687-NS-404						687-NS-405	
Sample ID	GN890061	GN890079	GN900150	GN900284	GN912088	GN912228	GN870179	GN870450
Sample Date	890821	891030	900625	901007	910429	910722	870301	870701
Laboratory ID	021601	021601	021601	021601	021601	021601	021105	044150
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
SILVER	< .01	< .01	< .01	< .01	< .01	< .01		
ALUMINUM								
ARSENIC	< .01	< .01	< .01	< .01	< .01	< .01		
BARIUM								
BERYLLIUM								
CADMIUM	< .01	< .01	< .01	.011	< .01	< .01		
COBALT								
CHROMIUM	< .05	< .05	< .05	< .05	< .05	< .05	< .05	
CHROMIUM VI	< .05	< .05	< .05	< .05	< .05	< .05		
COPPER	< .02	< .02	< .02	< .02	< .02	< .02		
IRON	< .1	.245	< .1	.597	.2	.208	< .1	
MERCURY	< .001	< .001	< .001	< .001	< .001	< .001	< .001	< .001
MAGNESIUM	2.7	2.9	2.4	3.7	3.3	2.7		
MANGANESE								
MOLYBDENUM								
NICKEL	< .05	< .05	< .05	< .05	< .05	< .05		
LEAD	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
ANTIMONY								
SELENIUM	< .01	< .01	< .01	< .01	< .01	< .01		
TITANIUM								
THALLIUM								
ZINC	< .05	< .05	< .05	< .05	< .05	< .05	.063	

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Total Metals in Surface Water
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	SHIP CREEK II								
Location ID	687-NS-405								
Sample ID	GN870706	GN870848	GN880018	GN880099	GN880159	GN890020	GN890038	GN890062	GN890078
Sample Date	870923	871201	880301	880601	880901	890301	890628	890821	891030
Laboratory ID	068282	082686	018886	038866	060152	018469	021601	021601	021601
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
SILVER					< .01	< .01	< .01	< .01	< .01
ALUMINUM									
ARSENIC				< .01	< .01	< .01	< .01	< .01	< .01
BARIUM									
BERYLLIUM									
CADMIUM					< .01	< .01	< .01	< .01	< .01
COBALT									
CHROMIUM		< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05
CHROMIUM VI					< .05	< .05	< .05	< .05	< .05
COPPER				< .02	< .02	< .02	< .02	< .02	< .02
IRON		< .1	< .1	.479	.13	< .1	< .1	< .1	.491
MERCURY	< .001	< .001	< .001	< .001	< .001	< .001	< .001	< .001	< .001
MAGNESIUM					2.8	7	2.5	3.3	3.6
MANGANESE									
MOLYBDENUM									
NICKEL				< .05	< .05	< .05	< .05	< .05	< .05
LEAD	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
ANTIMONY									
SELENIUM					< .01	< .01	< .01	< .01	< .01
TITANIUM									
THALLIUM									
ZINC		< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05

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Total Metals in Surface Water
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	SHIP CREEK II						SIX MILE LAKE OUTFALL		
Location ID	687-NS-405						687-NS-403		
Sample ID	GN900097	GN900154	GN900287	GN912093	GN912233	GN912327	0184	0185	0284
Sample Date	900417	900625	901007	910501	910722	911021	840101	850101	840101
Laboratory ID	021601	021601	021601	91022615	021601	91055280	0184	0185	0284
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
SILVER	< .01	< .01	< .01	< .01	< .01	< .01			
ALUMINUM									
ARSENIC	< .01	< .01	< .01	< .01	< .01	< .01			
BARIUM									
BERYLLIUM									
CADMIUM	< .01	< .01	< .01	< .01	< .01	< .005			
COBALT									
CHROMIUM	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05
CHROMIUM VI	< .05	< .05	< .05	< .05	< .05	< .05			
COPPER	< .02	< .02	< .02	< .02	< .02	< .02			
IRON	.261	< .1	< .1	< .1	< .1	.16	< .1	.104	< .1
MERCURY	< .001	< .001	< .001	< .001	< .001	< .001		< .001	< .001
MAGNESIUM	5	2.7	6.2	4920	3	4.19			
MANGANESE									
MOLYBDENUM									
NICKEL	< .05	< .05	< .05	< .05	< .05	.052			
LEAD	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
ANTIMONY									
SELENIUM	< .01	< .01	< .01	< .01	< .01	< .01			
TITANIUM									
THALLIUM									
ZINC	< .05	< .05	< .05	< .05	< .05	.078	< .05	< .05	< .05

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NA = Not analyzed
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Total Metals in Surface Water
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	SIX MILE LAKE OUTFALL										
Location ID	687-NS-403										
Sample ID	0285	0384	0385	0386	0484	0485	0584	0585	0684	0685	0686
Sample Date	850101	840101	850101	860101	840101	850101	840101	850101	840101	850101	860101
Laboratory ID	0285	0384	0385	0386	0484	0485	0584	0585	0684	0685	0686
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
SILVER											
ALUMINUM											
ARSENIC											
BARIUM											
BERYLLIUM											
CADMIUM											
COBALT											
CHROMIUM	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05
CHROMIUM VI											
COPPER											
IRON	< .1	.171	< .1	< .1	< .1	< .1	.267	.188	< .1	< .1	< .1
MERCURY	< .001	< .001	< .001	< .001	< .001	< .001	< .001	< .001	< .001	< .001	< .001
MAGNESIUM											
MANGANESE											
MOLYBDENUM											
NICKEL											
LEAD	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
ANTIMONY											
SELENIUM											
TITANIUM											
THALLIUM											
ZINC	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05

< = less than detection limit
NA = Not analyzed
ND = Not detected, detection limit not reported

Total Metals in Surface Water
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	SIX MILE LAKE OUTFALL										
Location ID	687-NS-403										
Sample ID	0784	0785	0884	0885	0984	0985	0986	1084	1184	1185	1186
Sample Date	840101	850101	840101	850101	840101	850101	860101	840101	840101	850101	860101
Laboratory ID	0784	0785	0884	0885	0984	0985	0986	1084	1184	1185	1186
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
SILVER											
ALUMINUM											
ARSENIC											
BARIUM											
BERYLLIUM											
CADMIUM											
COBALT											
CHROMIUM	< .05	< .05		< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05
CHROMIUM VI											
COPPER											
IRON	< .1	.252	< .1	.245	< .1	< .1	< .1	.109	< .1	1.334	< .1
MERCURY	< .001	< .001	< .001	< .001	< .001	< .001	< .001	< .001	< .001	< .001	< .001
MAGNESIUM											
MANGANESE											
MOLYBDENUM											
NICKEL											
LEAD	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
ANTIMONY											
SELENIUM											
TITANIUM											
THALLIUM											
ZINC	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05

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Total Metals in Surface Water
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	SIX MILE LAKE OUTFALL								
Location ID	687-NS-403								
Sample ID	1284	GN870176	GN870453	GN870704	GN870846	GN880025	GN880103	GN880163	GN880210
Sample Date	840101	870330	870624	870923	871119	880331	880623	880923	881115
Laboratory ID	1284	021087	044159	068275	082673	021503	040407	062596	072494
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
SILVER							< .01	< .01	< .01
ALUMINUM									
ARSENIC							< .01	< .01	< .01
BARIUM									
BERYLLIUM									
CADMIUM							< .01	< .01	< .01
COBALT									
CHROMIUM	< .05	< .05			< .05	< .05	< .05	< .05	< .05
CHROMIUM VI								< .05	< .05
COPPER							< .02	< .02	< .02
IRON	< .1	< .1			< .1	.122	< .1	.105	< .1
MERCURY	< .001	< .001	< .001	< .001	< .001	< .001	< .001	< .001	< .001
MAGNESIUM								6.3	7.5
MANGANESE									
MOLYBDENUM									
NICKEL							< .05	< .05	< .05
LEAD	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
ANTIMONY									
SELENIUM								< .01	< .01
TITANIUM									
THALLIUM									
ZINC	< .05	< .05			< .05	< .05	< .05	< .05	< .05

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Total Metals in Surface Water
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	SIX MILE LAKE OUTFALL							
Location ID	687-NS-403							
Sample ID	GN890018	GN890058	GN890081	GN900093	GN900146	GN900278	GN912106	GN912249
Sample Date	890328	890821	891030	900417	900625	901212	910515	910724
Laboratory ID	018467	89047659	021601	021601	021601	021601	021601	021601
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
SILVER	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
ALUMINUM								
ARSENIC	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
BARIUM								
BERYLLIUM								
CADMIUM	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
COBALT								
CHROMIUM	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05
CHROMIUM VI	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05
COPPER	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
IRON	< .1	< .1	< .1	.384	< .1	< .1	.235	< .1
MERCURY	< .001	< .001	< .001	< .001	< .001	< .001	< .001	< .001
MAGNESIUM	7.6	6.3	6.6	5.6	6	7.9		
MANGANESE							143	6.6
MOLYBDENUM								
NICKEL	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05
LEAD	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
ANTIMONY								
SELENIUM	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
TITANIUM								
THALLIUM								
ZINC		< .05	< .05	< .05	< .05	< .05	< .05	< .05

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Total Metals in Surface Water
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	POST ROAD GATE RUNOFF			
Location ID	687-NO-407			
Sample ID	GN900158	GN900293	GN912098	GN912223
Sample Date	900625	901007	910501	910722
Laboratory ID	021601	021601	021601	021601
Units	mg/l	mg/l	mg/l	mg/l
SILVER	< .01	< .01	< .01	< .01
ALUMINUM				
ARSENIC	< .01	< .01	< .01	< .01
BARIUM				
BERYLLIUM				
CADMIUM	< .01	< .01	< .01	< .01
COBALT				
CHROMIUM	< .05	< .05	< .05	< .05
CHROMIUM VI	< .05	< .05	< .05	< .05
COPPER	< .02	< .02	< .02	< .02
IRON	.204	1.127	< .1	< .1
MERCURY	< .001	< .001	< .001	< .001
MAGNESIUM	11.6	12.4	11710	12.2
MANGANESE				
MOLYBDENUM				
NICKEL	< .05	.05	< .05	< .05
LEAD	< .02	< .02	< .02	< .02
ANTIMONY				
SELENIUM	< .01	< .01	< .01	< .01
TITANIUM				
THALLIUM				
ZINC	< .05	< .05	< .05	< .05

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VOLATILES AND SEMIVOLATILES IN SURFACE WATER

Volatiles In Surface Water
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name					POST RD. GATE RUNOFF	
Location ID					687-NO-407	
Sampe ID	D213	D219	POTW 1118	TB	GN900107	GN900160
Sample Date	880605	880605	871118	871118	900401	900625
Laboratory ID	06/190670	06/190674	11/180137	11/180138	26453	9011131
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ACETONE					11.6	< 100
ACROLEIN	< 50	< 10				< 50
ACRYLONITRILE	< 50	< 10				< 50
BROMODICHLOROMETHANE	< 25	< 5	.62	< .5	< 4	< 5
BROMOBENZENE						
BROMOCHLOROMETHANE						
BROMOFLUOROBENZENE-p						
BROMOMETHANE	< 50	< 10	< .5	< .5	< 4	< 10
n-BUTYLBENZENE						
SEC-BUTYLBENZENE						
t-BUTYLBENZENE						
BENZENE	< 25	< 5	< .5	< .5	< 4	< 5
TOLUENE	31	< 5	< .5	< .5	< 4	< 5
TOLUENE-D8						
CARBON DISULFIDE					< 4	< 5
2-CHLOROETHYL VINYL ETHER	< 25	< 5	< .5	< .5	< 4	< 10
CHLOROBENZENE	< 25	< 5	< .5	< .5	< 4	< 5
2-CHLOROTOLUENE						
4-CHLOROTOLUENE						
CHLORODIBROMOMETHANE						
CHLOROETHANE	< 5	< 5	< .5	< .5	< 4	< 10
CHLOROMETHANE	< 50	< 10	< .5	< .5	< 4	< 10
CARBON TETRACHLORIDE	< 25	< 5	< .5	< .5	< 4	< 5
P-CYMENE (p-ISOPROPYLTOLUENE)						
DIBROMOCHLOROMETHANE	< 25	< 5	< .5	< .5	< 4	< 5

Volatiles In Surface Water
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name					POST RD. GATE RUNOFF	
Location ID					687-NO-407	
Sampe ID	D213	D219	POTW 1118	TB	GN900107	GN900160
Sample Date	880605	880605	871118	871118	900401	900625
Laboratory ID	06/190670	06/190674	11/180137	11/180138	26453	9011131
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,2-DIBROMO-3-CHLOROPROPANE						
DIBROMOMETHANE						
1,1-DICHLOROETHANE	< 25	< 5	< .5	< .5	< 4	< 5
1,2-DICHLOROETHANE	< 25	< 5	< .5	< .5	< 4	< 5
1,2-DICHLOROETHANE-D4						
1,1-DICHLOROETHENE	< 25	< 5	< .5	< .5	< 4	< 5
1,1,1-DICHLOROETHENE						
cis-1,2-DICHLOROETHYLENE						
DCE12E						
trans-1,2-DICHLOROETHENE	< 25	< 5	< .5	< .5	< 4	< 5
1,2-DICHLOROETHENE(TOTAL)						
DICHLOROMETHANE						
1,1-DICHLOROPROPENE						
1,3-DICHLOROPROPYLENE (1,3-DICHLOROPROPENE MIXTURE)						
cis-1,3-DICHLOROPROPENE	< 25	< 5	< .5	< .5	< 4	< 5
trans-1,3-DICHLOROPROPENE	< 25	< 5	< .5	< .5	< 4	< 5
DCPA11						
1,2-DICHLOROPROPANE	< 25	< 5	< .5	< .5	< 4	< 5
1,3-DICHLOROPROPANE						
2,2-DICHLOROPROPANE						
ETHYLBENZENE	< 25	< 5	< .5	< .5	< 4	< 5
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)						
ETEDIBROMIDE						
TRICHLOROFLUOROMETHANE	< 25	< 5	< .5	< .5	< 4	< 5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE						

Volatiles In Surface Water
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name					POST RD. GATE RUNOFF	
Location ID					687-NO-407	
Sampe ID	D213	D219	POTW 1118	TB	GN900107	GN900160
Sample Date	880605	880605	871118	871118	900401	900625
Laboratory ID	06/190670	06/190674	11/180137	11/180138	26453	9011131
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
DICHLORODIFLUOROMETHANE			< .5	< .5		
2-HEXANONE					< 4	< 50
ISOPROPYLBENZENE (CUMENE)						
METHYL ETHYL KETONE (2-BUTANONE)					< 4	< 100
CRESOLS, m & p	< 11	< 110				
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)					< 4	< 50
METHYLENE CHLORIDE	< 25	< 5	< 10	< 10	< 4	< 5
n-PROPYLBENZENE						
1,1,2,2-TETRACHLOROETHANE	< 25	< 5	< .5	< .5	< 4	< 5
TETRACHLOROETHYLENE(PCE)	< 25	< 5	< .5	< .5	< 4	< 5
STYRENE					< 4	< 5
BROMOFORM	< 25	< 5	< 1	< 1	< 4	< 5
TRICHLOROBENZENE						
1,1,1,2-TETRACHLOROETHANE						
1,1,1-TRICHLOROETHANE	< 25	< 5	< .5	< .5	5.93	< 5
1,1,2-TRICHLOROETHANE	< 25	< 5	< .5	< .5	< 4	< 5
1,2,3-TRICHLOROBENZENE						
TRICHLOROETHYLENE (TCE)	< 25	< 5	< .5	< .5	< 4	< 5
CHLOROFORM	< 25	< 5	24	.7	< 4	< 5
1,2,3-TRICHLOROPROPANE						
1,2,4-TRIMETHYLBENZENE						
1,3,5-TRIMETHYLBENZENE (MESITYLENE)						
VINYL ACETATE					< .004	< 50
VINYL CHLORIDE	< 50	< 10	< .5	< .5	< 4	< 10
VOLATILE AROMATIC SCREEN						

Volatiles In Surface Water
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name					POST RD. GATE RUNOFF	
Location ID					687-NO-407	
Sampe ID	D213	D219	POTW 1118	TB	GN900107	GN900160
Sample Date	880605	880605	871118	871118	900401	900625
Laboratory ID	06/190670	06/190674	11/180137	11/180138	26453	9011131
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
VOLATILE ORGANIC HALOCARBON SCREEN						
XYLENES, TOTAL				< .5		< 5
XYLENENS1214					< 4	
M-XYLENE (1,3-DIMETHYLBENZENE)					< 4	
M,P-XYLENE (SUM OF ISOMERS)						
O-XYLENE (1,2-DIMETHYLBENZENE)						
P-XYLENE (1,4-DIMETHYLBENZENE)						

<- less than detection limit

Volatiles In Surface Water
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	POST RD. GATE RUNOFF				GOVT. HILL STORM DRAIN	
Location ID	687-NO-407				687-NO-406	
Sampe ID	GN900295	GN912096	GN912101	GN912226	GN890043	GN890043
Sample Date	901107	910501	910501	910722	890705	890705
Laboratory ID	90111511-6	22214	22215	020201	020301	020401
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ACETONE	< 100					
ACROLEIN	< 50					
ACRYLONITRILE	< 50					
BROMODICHLOROMETHANE	< 5			< 2.33		< .4
BROMOBENZENE						
BROMOCHLOROMETHANE		< 2	< 2			
BROMOFLUOROBENZENE-p						
BROMOMETHANE	< 10	< 5	< 5	< 4		< .9
n-BUTYLBENZENE						
SEC-BUTYLBENZENE						
t-BUTYLBENZENE						
BENZENE	< 5			< 1.61	< .5	
TOLUENE	< 5			< 1.16	< .5	
TOLUENE-D8						
CARBON DISULFIDE	< 5					
2-CHLOROETHYL VINYL ETHER	< 10			< 4		< .9
CHLOROBENZENE	< 5			< 3.43	< .5	< .6
2-CHLOROTOLUENE						
4-CHLOROTOLUENE						
CHLORODIBROMOMETHANE				< 3.4		< .5
CHLOROETHANE	< 10			< 4		< .9
CHLOROMETHANE	< 10	< 5	< 5	< 4		< .8
CARBON TETRACHLORIDE	< 5	< 3	< 3	< 2.2		< .5
P-CYMENE (p-ISOPROPYLTOLUENE)						
DIBROMOCHLOROMETHANE	< 5					

Volatiles In Surface Water
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	POST RD. GATE RUNOFF				GOVT. HILL STORM DRAIN	
Location ID	687-NO-407				687-NO-406	
Sampe ID	GN900295	GN912096	GN912101	GN912226	GN890043	GN890043
Sample Date	901107	910501	910501	910722	890705	890705
Laboratory ID	90111511-6	22214	22215	020201	020301	020401
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,2-DIBROMO-3-CHLOROPROPANE						
DIBROMOMETHANE						
1,1-DICHLOROETHANE	< 5	< 5	< 5	< 1.26		< .4
1,2-DICHLOROETHANE	< 5	< 3	< 3	< 1.63		< .3
1,2-DICHLOROETHANE-D4						
1,1-DICHLOROETHENE	< 5	< 3	< 3	< 1.98		< .3
1,1,1-DICHLOROETHENE						
cis-1,2-DICHLOROETHYLENE						
DCE12E						
trans-1,2-DICHLOROETHENE	< 5	< 2	< 2	< 1.29		< .5
1,2-DICHLOROETHENE(TOTAL)						
DICHLOROMETHANE						
1,1-DICHLOROPROPENE						
1,3-DICHLOROPROPYLENE (1,3-DICHLOROPROPENE MIXTURE)						
cis-1,3-DICHLOROPROPENE	< 5			< 1.14		< .5
trans-1,3-DICHLOROPROPENE	< 5	< 5	< 5	< .3		< .5
DCPA11						
1,2-DICHLOROPROPANE	< 5	< 6	< 6	< 1.35		< .3
1,3-DICHLOROPROPANE						
2,2-DICHLOROPROPANE						
ETHYLBENZENE	< 5			< 2.8	< .5	
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)						
ETEDIBROMIDE						
TRICHLOROFLUOROMETHANE	< 5	< 5	< 5	< 4		< .4
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE						

Volatiles In Surface Water
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	POST RD. GATE RUNOFF				GOVT. HILL STORM DRAIN	
Location ID	687-NO-407				687-NO-406	
Sampe ID	GN900295	GN912096	GN912101	GN912226	GN890043	GN890043
Sample Date	901107	910501	910501	910722	890705	890705
Laboratory ID	90111511-6	22214	22215	020201	020301	020401
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
DICHLORODIFLUOROMETHANE						< .9
2-HEXANONE	< 50					
ISOPROPYLBENZENE (CUMENE)						
METHYL ETHYL KETONE (2-BUTANONE)	< 100					
CRESOLS, m & p						
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	< 50					
METHYLENE CHLORIDE	< 5	< 3	< 3	< 4.74		< .4
n-PROPYLBENZENE						
1,1,2,2-TETRACHLOROETHANE	< 5			< 4		< .5
TETRACHLOROETHYLENE(PCE)	< 5			< 3.08		< .6
STYRENE	< 5					
BROMOFORM	< 5			< 3.15		< .7
TRICHLOROBENZENE						
1,1,1,2-TETRACHLOROETHANE						
1,1,1-TRICHLOROETHANE	< 5	< 4	< 4	1.53		< .5
1,1,2-TRICHLOROETHANE	< 5			< 3.4		< .5
1,2,3-TRICHLOROBENZENE						
TRICHLOROETHYLENE (TCE)	< 5	< 2	< 2	< 1.92		< .5
CHLOROFORM	< 5	< 2	< 2	< .67		< .3
1,2,3-TRICHLOROPROPANE						
1,2,4-TRIMETHYLBENZENE						
1,3,5-TRIMETHYLBENZENE (MESITYLENE)						
VINYL ACETATE	< 10					
VINYL CHLORIDE	< 10	< 10	< 10	< 4		< .9
VOLATILE AROMATIC SCREEN						

Volatiles In Surface Water
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	POST RD. GATE RUNOFF				GOVT. HILL STORM DRAIN	
Location ID	687-NO-407				687-NO-406	
Sampe ID	GN900295	GN912096	GN912101	GN912226	GN890043	GN890043
Sample Date	901107	910501	910501	910722	890705	890705
Laboratory ID	90111511-6	22214	22215	020201	020301	020401
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
VOLATILE ORGANIC HALOCARBON SCREEN						
XYLENES, TOTAL	< 5					
XYLENENS1214						
M-XYLENE (1,3-DIMETHYLBENZENE)						
M,P-XYLENE (SUM OF ISOMERS)						
O-XYLENE (1,2-DIMETHYLBENZENE)						
P-XYLENE (1,4-DIMETHYLBENZENE)						

<- less than detection limit

Volatiles In Surface Water
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	GOVT. HILL STORM DRAIN					
Location ID	687-NO-406					
Sampe ID	GN890069	GN890069	GN900103	GN900168	GN900291	GN912074
Sample Date	890821	890821	900417	900625	901107	910423
Laboratory ID	020302	020401	26452	9011133	90111511-4	91020026
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ACETONE			< 4	< 100	< 100	
ACROLEIN				< 50	< 50	< 100
ACRYLONITRILE				< 50	< 50	< 100
BROMODICHLOROMETHANE		< .4	< 4	< 5	< 5	< 5
BROMOBENZENE						
BROMOCHLOROMETHANE						
BROMOFLUOROBENZENE-p						96
BROMOMETHANE		< .9	< 4	< 10	< 10	< 10
n-BUTYLBENZENE						
SEC-BUTYLBENZENE						
t-BUTYLBENZENE						
BENZENE	< .5		< 4	< 5	< 5	< 5
TOLUENE	< .3		< 4	< 5	< 5	< 5
TOLUENE-D8						100
CARBON DISULFIDE			< 4	< 5	< 5	
2-CHLOROETHYL VINYL ETHER		< .9	< 4	< 10	< 10	< 10
CHLOROBENZENE	< .6	< .6	< 4	< 5	< 5	< 5
2-CHLOROTOLUENE						
4-CHLOROTOLUENE						
CHLORODIBROMOMETHANE		< .5				
CHLOROETHANE		< .9	< 4	< 10	< 10	< 10
CHLOROMETHANE		< .8	< 4	< 10	< 10	< 10
CARBON TETRACHLORIDE		< .5	< 4	< 5	< 5	< 5
P-CYMENE (p-ISOPROPYLTOLUENE)						
DIBROMOCHLOROMETHANE			< 4	< 5	< 5	< 5

Volatiles In Surface Water
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	GOVT. HILL STORM DRAIN					
Location ID	687-NO-406					
Sampe ID	GN890069	GN890069	GN900103	GN900168	GN900291	GN912074
Sample Date	890821	890821	900417	900625	901107	910423
Laboratory ID	020302	020401	26452	9011133	90111511-4	91020026
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,2-DIBROMO-3-CHLOROPROPANE						
DIBROMOMETHANE						
1,1-DICHLOROETHANE		< .4	< 4	< 5	< 5	< 5
1,2-DICHLOROETHANE		< .3	< 4	< 5	< 5	< 5
1,2-DICHLOROETHANE-D4						95
1,1-DICHLOROETHENE		< .3	< 4	< 5	< 5	< 5
1,1,1-DICHLOROETHENE						
cis-1,2-DICHLOROETHYLENE						
DCE12E						
trans-1,2-DICHLOROETHENE		< .5	< 4	< 5	< 5	
1,2-DICHLOROETHENE(TOTAL)						< 5
DICHLOROMETHANE						
1,1-DICHLOROPROPENE						
1,3-DICHLOROPROPYLENE (1,3-DICHLOROPROPENE MIXTURE)						
cis-1,3-DICHLOROPROPENE		< .5	< 4	< 5	< 5	< 5
trans-1,3-DICHLOROPROPENE		< .5	< 4	< 5	< 5	< 5
DCPA11						
1,2-DICHLOROPROPANE		< .3	< 4	< 5	< 5	< 5
1,3-DICHLOROPROPANE						
2,2-DICHLOROPROPANE						
ETHYLBENZENE	< .3		< 4	< 5	< 5	< 5
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)						
ETEDIBROMIDE						
TRICHLOROFLUOROMETHANE		< .4	< 4	< 5	< 5	< 10
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE						

Volatiles In Surface Water
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	GOVT. HILL STORM DRAIN					
Location ID	687-NO-406					
Sampe ID	GN890069	GN890069	GN900103	GN900168	GN900291	GN912074
Sample Date	890821	890821	900417	900625	901107	910423
Laboratory ID	020302	020401	26452	9011133	90111511-4	91020026
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
DICHLORODIFLUOROMETHANE		< .9				
2-HEXANONE			< 4	< 50	< 50	
ISOPROPYLBENZENE (CUMENE)						
METHYL ETHYL KETONE (2-BUTANONE)			< 4	< 100	< 100	
CRESOLS, m & p						
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)			< 4	< 50	< 50	
METHYLENE CHLORIDE		< .4	< 4	< 5	< 5	30
n-PROPYLBENZENE						
1,1,2,2-TETRACHLOROETHANE		< .5	< 4	< 5	< 5	< 5
TETRACHLOROETHYLENE(PCE)		< .6	< 4	< 5	< 5	< 5
STYRENE			< 4	< 5	< 5	
BROMOFORM		< .7	< 4	< 5	< 5	< 5
TRICHLOROBENZENE						
1,1,1,2-TETRACHLOROETHANE						
1,1,1-TRICHLOROETHANE		< .5	< 4	< 5	< 5	< 5
1,1,2-TRICHLOROETHANE		< .5	< 4	< 5	< 5	< 5
1,2,3-TRICHLOROBENZENE						
TRICHLOROETHYLENE (TCE)		< .5	< 4	< 5	< 5	< 5
CHLOROFORM		< .3	< 4	< 5	< 5	< 5
1,2,3-TRICHLOROPROPANE						
1,2,4-TRIMETHYLBENZENE						
1,3,5-TRIMETHYLBENZENE (MESITYLENE)						
VINYL ACETATE			< .004	< 50	< 10	
VINYL CHLORIDE		< .9	< 4	< 10	< 10	< 10
VOLATILE AROMATIC SCREEN						

Volatiles In Surface Water
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	GOVT. HILL STORM DRAIN					
Location ID	687-NO-406					
Sampe ID	GN890069	GN890069	GN900103	GN900168	GN900291	GN912074
Sample Date	890821	890821	900417	900625	901107	910423
Laboratory ID	020302	020401	26452	9011133	90111511-4	91020026
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
VOLATILE ORGANIC HALOCARBON SCREEN						
XYLENES, TOTAL				< 5	< 5	
XYLENENS1214			< 4			
M-XYLENE (1,3-DIMETHYLBENZENE)			< 4			
M,P-XYLENE (SUM OF ISOMERS)						
O-XYLENE (1,2-DIMETHYLBENZENE)						
P-XYLENE (1,4-DIMETHYLBENZENE)						

<- less than detection limit

Volatiles In Surface Water
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	SHIP CREEK 1					
Location ID	687-NS-404					
Sampe ID	GN912242	GN912350	GN880211	GN880211	GN890019	GN890020
Sample Date	910724	911023	881115	881115	890328	890301
Laboratory ID	020201	020201	72019	72020	18440	18441
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ACETONE						
ACROLEIN						
ACRYLONITRILE						
BROMODICHLOROMETHANE	< 2.33	< 2.3	< .1		< .1	< .1
BROMOBENZENE						
BROMOCHLOROMETHANE						
BROMOFLUOROBENZENE-p						
BROMOMETHANE	< 4	< 4	< .1		< .1	< .1
n-BUTYLBENZENE						
SEC-BUTYLBENZENE						
t-BUTYLBENZENE						
BENZENE	< 1.61	< 1.6		< 1		
TOLUENE	< 1.16	< 1.1		< 1		
TOLUENE-D8						
CARBON DISULFIDE						
2-CHLOROETHYL VINYL ETHER	< 4	< 4	< .1		< .1	< .1
CHLOROBENZENE	< 3.43	< 3.4	< .1	< 1	< .1	< .1
2-CHLOROTOLUENE						
4-CHLOROTOLUENE						
CHLORODIBROMOMETHANE	< 3.4	< 3.4				
CHLOROETHANE	< 4	< 4	< .1		< .1	< .1
CHLOROMETHANE	< 4	< 4	< .1		< .1	< .1
CARBON TETRACHLORIDE	< 2.2	< 2.2	< .1		< .1	< .1
P-CYMENE (p-ISOPROPYLTOLUENE)						
DIBROMOCHLOROMETHANE			< .1		< .1	< .1

Volatiles In Surface Water
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	SHIP CREEK 1					
Location ID	687-NS-404					
Sampe ID	GN912242	GN912350	GN880211	GN880211	GN890019	GN890020
Sample Date	910724	911023	881115	881115	890328	890301
Laboratory ID	020201	020201	72019	72020	18440	18441
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,2-DIBROMO-3-CHLOROPROPANE						
DIBROMOMETHANE						
1,1-DICHLOROETHANE	< 1.26	< 1.2	< .1		< .1	< .1
1,2-DICHLOROETHANE	< 1.63	< 1.6	< .1		< .1	< .1
1,2-DICHLOROETHANE-D4						
1,1-DICHLOROETHENE	< 1.98	< 1.9	< .1		< .1	< .1
1,1,1-DICHLOROETHENE						
cis-1,2-DICHLOROETHYLENE						
DCE12E						
trans-1,2-DICHLOROETHENE	< 1.29	< 1.2	< .1		< .1	< .1
1,2-DICHLOROETHENE(TOTAL)						
DICHLOROMETHANE						
1,1-DICHLOROPROPENE						
1,3-DICHLOROPROPYLENE (1,3-DICHLOROPROPENE MIXTURE)						
cis-1,3-DICHLOROPROPENE	< 1.14	< 1.1	< .1		< .1	< .1
trans-1,3-DICHLOROPROPENE	< .3	< .3	< .1		< .1	< .1
DCPA11						
1,2-DICHLOROPROPANE	< 1.35	< 1.3	< .1		< .1	< .1
1,3-DICHLOROPROPANE						
2,2-DICHLOROPROPANE						
ETHYLBENZENE	< 2.8	< 2.8		< 1		
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)						
ETEDIBROMIDE						
TRICHLOROFLUOROMETHANE	< 4	< 4	< .1		< .1	< .1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE						

Volatiles In Surface Water
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	SHIP CREEK 1					
Location ID	687-NS-404					
Sampe ID	GN912242	GN912350	GN880211	GN880211	GN890019	GN890020
Sample Date	910724	911023	881115	881115	890328	890301
Laboratory ID	020201	020201	72019	72020	18440	18441
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
DICHLORODIFLUOROMETHANE			< .1		< .1	< .1
2-HEXANONE						
ISOPROPYLBENZENE (CUMENE)						
METHYL ETHYL KETONE (2-BUTANONE)						
CRESOLS, m & p						
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)						
METHYLENE CHLORIDE	< 4.74	< 4.74	.5		< .1	< .1
n-PROPYLBENZENE						
1,1,2,2-TETRACHLOROETHANE	< 4	< 4	< .1		< .1	< .1
TETRACHLOROETHYLENE(PCE)	< 3.08	< 3	< .1		< .1	.3
STYRENE						
BROMOFORM	< 3.15	< 3.1	< .1		< .1	< .1
TRICHLOROBENZENE						
1,1,1,2-TETRACHLOROETHANE						
1,1,1-TRICHLOROETHANE	< 1.16	< 1.1	< .1		< .1	< .1
1,1,2-TRICHLOROETHANE	< 3.4	< 3.4	< .1		< .1	< .1
1,2,3-TRICHLOROBENZENE						
TRICHLOROETHYLENE (TCE)	< 1.92	< 1.9	< .1		< .1	< .1
CHLOROFORM	< .67	< .6	< .1		< .1	< .1
1,2,3-TRICHLOROPROPANE						
1,2,4-TRIMETHYLBENZENE						
1,3,5-TRIMETHYLBENZENE (MESITYLENE)						
VINYL ACETATE						
VINYL CHLORIDE	< 4	< 4	< .1		< .1	< .1
VOLATILE AROMATIC SCREEN						

Volatiles In Surface Water
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	SHIP CREEK					
	1					
Location ID	687-NS-404					
Sampe ID	GN912242	GN912350	GN880211	GN880211	GN890019	GN890020
Sample Date	910724	911023	881115	881115	890328	890301
Laboratory ID	020201	020201	72019	72020	18440	18441
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
VOLATILE ORGANIC HALOCARBON SCREEN						
XYLENES, TOTAL						
XYLENENS1214						
M-XYLENE (1,3-DIMETHYLBENZENE)						
M,P-XYLENE (SUM OF ISOMERS)						
O-XYLENE (1,2-DIMETHYLBENZENE)						
P-XYLENE (1,4-DIMETHYLBENZENE)						

<- less than detection limit

Volatiles In Surface Water
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	SHIP CREEK 1					
Location ID	687-NS-404					
Sampe ID	GN890042	GN890042	GN890067	GN890067	GN89019	GN89020
Sample Date	890705	890705	890821	890821	890328	890301
Laboratory ID	020301	020401	020302	020401	18444	18445
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ACETONE						
ACROLEIN						
ACRYLONITRILE						
BROMODICHLOROMETHANE		< .4		< .4		
BROMOBENZENE						
BROMOCHLOROMETHANE						
BROMOFLUOROBENZENE-p						
BROMOMETHANE		< .9		< .9		
n-BUTYLBENZENE						
SEC-BUTYLBENZENE						
t-BUTYLBENZENE						
BENZENE	< .5		< .5		< 1	< 1
TOLUENE	< .5		< .3		< 1	< 1
TOLUENE-D8						
CARBON DISULFIDE						
2-CHLOROETHYL VINYL ETHER		< .9		< .9		
CHLOROBENZENE	< .5	< .6	< .6	< .6	< 1	< 1
2-CHLOROTOLUENE						
4-CHLOROTOLUENE						
CHLORODIBROMOMETHANE		< .5		< .5		
CHLOROETHANE		< .9		< .9		
CHLOROMETHANE		< .8		< .8		
CARBON TETRACHLORIDE		< .5		< .5		
P-CYMENE (p-ISOPROPYLTOLUENE)						
DIBROMOCHLOROMETHANE						

Volatiles In Surface Water
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	SHIP CREEK 1					
Location ID	687-NS-404					
Sampe ID	GN890042	GN890042	GN890067	GN890067	GN89019	GN89020
Sample Date	890705	890705	890821	890821	890328	890301
Laboratory ID	020301	020401	020302	020401	18444	18445
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,2-DIBROMO-3-CHLOROPROPANE						
DIBROMOMETHANE						
1,1-DICHLOROETHANE		< .4		< .4		
1,2-DICHLOROETHANE		< .3		< .3		
1,2-DICHLOROETHANE-D4						
1,1-DICHLOROETHENE		< .3		< .3		
1,1,1-DICHLOROETHENE						
cis-1,2-DICHLOROETHYLENE						
DCE12E						
trans-1,2-DICHLOROETHENE		< .5		< .5		
1,2-DICHLOROETHENE(TOTAL)						
DICHLOROMETHANE						
1,1-DICHLOROPROPENE						
1,3-DICHLOROPROPYLENE (1,3-DICHLOROPROPENE MIXTURE)						
cis-1,3-DICHLOROPROPENE		< .5		< .5		
trans-1,3-DICHLOROPROPENE		< .5		< .5		
DCPA11						
1,2-DICHLOROPROPANE		< .3		< .3		
1,3-DICHLOROPROPANE						
2,2-DICHLOROPROPANE						
ETHYLBENZENE	< .5		< .3		< 1	< 1
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)						
ETEDIBROMIDE						
TRICHLOROFLUOROMETHANE		< .4		< .4		
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE						

Volatiles In Surface Water
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	SHIP CREEK 1					
Location ID	687-NS-404					
Sampe ID	GN890042	GN890042	GN890067	GN890067	GN89019	GN89020
Sample Date	890705	890705	890821	890821	890328	890301
Laboratory ID	020301	020401	020302	020401	18444	18445
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
DICHLORODIFLUOROMETHANE		< .9		< .9		
2-HEXANONE						
ISOPROPYLBENZENE (CUMENE)						
METHYL ETHYL KETONE (2-BUTANONE)						
CRESOLS, m & p						
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)						
METHYLENE CHLORIDE		< .4		< .4		
n-PROPYLBENZENE						
1,1,2,2-TETRACHLOROETHANE		< .5		< .5		
TETRACHLOROETHYLENE(PCE)		< .6		< .6		
STYRENE						
BROMOFORM		< .7		< .7		
TRICHLOROBENZENE						
1,1,1,2-TETRACHLOROETHANE						
1,1,1-TRICHLOROETHANE		< .5		< .5		
1,1,2-TRICHLOROETHANE		< .5		< .5		
1,2,3-TRICHLOROBENZENE						
TRICHLOROETHYLENE (TCE)		< .5		< .5		
CHLOROFORM		< .3		< .3		
1,2,3-TRICHLOROPROPANE						
1,2,4-TRIMETHYLBENZENE						
1,3,5-TRIMETHYLBENZENE (MESITYLENE)						
VINYL ACETATE						
VINYL CHLORIDE		< .9		< .9		
VOLATILE AROMATIC SCREEN						

Volatiles In Surface Water
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	**SHIP CREEK**					
	1					
Location ID	**687-NS-404**					
Sampe ID	**GN890042**	**GN890042**	**GN890067**	**GN890067**	**GN89019**	**GN89020**
Sample Date	**890705**	**890705**	**890821**	**890821**	**890328**	**890301**
Laboratory ID	**020301**	**020401**	**020302**	**020401**	**18444**	**18445**
Units	**µg/l**	**µg/l**	**µg/l**	**µg/l**	**µg/l**	**µg/l**
VOLATILE ORGANIC HALOCARBON SCREEN						
XYLENES, TOTAL						
XYLENENS1214						
M-XYLENE (1,3-DIMETHYLBENZENE)						
M,P-XYLENE (SUM OF ISOMERS)						
O-XYLENE (1,2-DIMETHYLBENZENE)						
P-XYLENE (1,4-DIMETHYLBENZENE)						

<- less than detection limit

Volatiles In Surface Water
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	SHIP CREEK 2					
Location ID	687-NS-405					
Sampe ID	GN900152	GN90285	GN912231	GN912340	GN880212	GN880212
Sample Date	900625	901107	910722	911022	881101	881101
Laboratory ID	9011129	90111511-2	020201	020201	72021	72022
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ACETONE	< 100	< 100				
ACROLEIN	< 50	< 50				
ACRYLONITRILE	< 50	< 50				
BROMODICHLOROMETHANE	< 5	< 5	< 2.33	< 2.3	< .1	
BROMOBENZENE						
BROMOCHLOROMETHANE						
BROMOFLUOROBENZENE-p						
BROMOMETHANE	< 10	< 10	< 4	< 4	< .1	
n-BUTYLBENZENE						
SEC-BUTYLBENZENE						
t-BUTYLBENZENE						
BENZENE	< 5	< 5	< 1.61	< 1.6		< 1
TOLUENE	< 5	< 5	< 1.16	< 1.1		< 1
TOLUENE-D8						
CARBON DISULFIDE	< 5	< 5				
2-CHLOROETHYL VINYL ETHER	< 10	< 10	< 4	< 4	< .1	
CHLOROBENZENE	< 5	< 5	< 3.43	< 3.4	< .1	< 1
2-CHLOROTOLUENE						
4-CHLOROTOLUENE						
CHLORODIBROMOMETHANE			< 3.4	< 3.4		
CHLOROETHANE	< 10	< 10	< 4	< 4	< .1	
CHLOROMETHANE	< 10	< 10	< 4	< 4	< .1	
CARBON TETRACHLORIDE	< 5	< 5	< 2.2	< 2.2	< .1	
P-CYMENE (p-ISOPROPYLTOLUENE)						
DIBROMOCHLOROMETHANE	< 5	< 5			< .1	

Volatiles In Surface Water
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	SHIP CREEK 2					
Location ID	687-NS-405					
Sampe ID	GN900152	GN90285	GN912231	GN912340	GN880212	GN880212
Sample Date	900625	901107	910722	911022	881101	881101
Laboratory ID	9011129	90111511-2	020201	020201	72021	72022
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,2-DIBROMO-3-CHLOROPROPANE						
DIBROMOMETHANE						
1,1-DICHLOROETHANE	< 5	< 5	< 1.26	< 1.2	< .1	
1,2-DICHLOROETHANE	< 5	< 5	< 1.63	< 1.6	< .1	
1,2-DICHLOROETHANE-D4						
1,1-DICHLOROETHENE	< 5	< 5	< 1.98	< 1.9	< .1	
1,1,1-DICHLOROETHENE						
cis-1,2-DICHLOROETHYLENE						
DCE12E						
trans-1,2-DICHLOROETHENE	< 5	< 5	< 1.29	< 1.2	< .1	
1,2-DICHLOROETHENE(TOTAL)						
DICHLOROMETHANE						
1,1-DICHLOROPROPENE						
1,3-DICHLOROPROPYLENE (1,3-DICHLOROPROPENE MIXTURE)						
cis-1,3-DICHLOROPROPENE	< 5	< 5	< 1.14	< 1.1	< .1	
trans-1,3-DICHLOROPROPENE	< 5	< 5	< .3	< .3	< .1	
DCPA11						
1,2-DICHLOROPROPANE	< 5	< 5	< 1.35	< 1.3	< .1	
1,3-DICHLOROPROPANE						
2,2-DICHLOROPROPANE						
ETHYLBENZENE	< 5	< 5	< 2.8	< 2.8		< 1
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)						
ETEDIBROMIDE						
TRICHLOROFLUOROMETHANE	< 5	< 5	< 4	< 4	< .1	
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE						

Volatiles In Surface Water
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	SHIP CREEK 2					
Location ID	687-NS-405					
Sampe ID	GN900152	GN90285	GN912231	GN912340	GN880212	GN880212
Sample Date	900625	901107	910722	911022	881101	881101
Laboratory ID	9011129	90111511-2	020201	020201	72021	72022
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
DICHLORODIFLUOROMETHANE					< .1	
2-HEXANONE	< 50	< 50				
ISOPROPYLBENZENE (CUMENE)						
METHYL ETHYL KETONE (2-BUTANONE)	< 100	< 100				
CRESOLS, m & p						
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	< 50	< 50				
METHYLENE CHLORIDE	< 5	< 5	< 4.74	< 4.74	.5	
n-PROPYLBENZENE						
1,1,2,2-TETRACHLOROETHANE	< 5	< 5	< 4	< 4	< .1	
TETRACHLOROETHYLENE(PCE)	< 5	< 5	< 3.08	< 3	< .1	
STYRENE	< 5	< 5				
BROMOFORM	< 5	< 5	< 3.15	< 3.1	< .1	
TRICHLOROBENZENE						
1,1,1,2-TETRACHLOROETHANE						
1,1,1-TRICHLOROETHANE	< 5	< 5	< 1.16	< 1.1	< .1	
1,1,2-TRICHLOROETHANE	< 5	< 5	< 3.4	< 3.4	< .1	
1,2,3-TRICHLOROBENZENE						
TRICHLOROETHYLENE (TCE)	< 5	< 5	< 1.92	< 1.9	< .1	
CHLOROFORM	< 5	< 5	< .67	< .6	< .1	
1,2,3-TRICHLOROPROPANE						
1,2,4-TRIMETHYLBENZENE						
1,3,5-TRIMETHYLBENZENE (MESITYLENE)						
VINYL ACETATE	< 50	< 10				
VINYL CHLORIDE	< 10	< 10	< 4	< 4	< .1	
VOLATILE AROMATIC SCREEN						

Volatiles In Surface Water
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	**SHIP CREEK 2**					
Location ID	**687-NS-405**					
Sampe ID	**GN900152**	**GN90285**	**GN912231**	**GN912340**	**GN880212**	**GN880212**
Sample Date	**900625**	**901107**	**910722**	**911022**	**881101**	**881101**
Laboratory ID	**9011129**	**90111511-2**	**020201**	**020201**	**72021**	**72022**
Units	**µg/l**	**µg/l**	**µg/l**	**µg/l**	**µg/l**	**µg/l**
VOLATILE ORGANIC HALOCARBON SCREEN						
XYLENES, TOTAL	< 5	< 5				
XYLENENS1214						
M-XYLENE (1,3-DIMETHYLBENZENE)						
M,P-XYLENE (SUM OF ISOMERS)						
O-XYLENE (1,2-DIMETHYLBENZENE)						
P-XYLENE (1,4-DIMETHYLBENZENE)						

<- less than detection limit

Volatiles In Surface Water
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	SHIP CREEK 2					
Location ID	687-NS-405					
Sampe ID	GN890044	GN890044	GN890068	GN890068	GN900099	GN900156
Sample Date	890705	890705	890821	890821	900401	900625
Laboratory ID	020301	020401	020302	020401	26451	9011130
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ACETONE					< 4	< 100
ACROLEIN						< 50
ACRYLONITRILE						< 50
BROMODICHLOROMETHANE		< .4		< .4	< 4	< 5
BROMOBENZENE						
BROMOCHLOROMETHANE						
BROMOFLUOROBENZENE-p						
BROMOMETHANE		< .9		< .9	< 4	< 10
n-BUTYLBENZENE						
SEC-BUTYLBENZENE						
t-BUTYLBENZENE						
BENZENE	< .5		< .5		< 4	< 5
TOLUENE	< .5		< .3		< 4	< 5
TOLUENE-D8						
CARBON DISULFIDE					< 4	< 5
2-CHLOROETHYL VINYL ETHER		< .9		< .9	< 4	< 10
CHLOROBENZENE	< .5	< .6	< .6	< .6	< 4	< 5
2-CHLOROTOLUENE						
4-CHLOROTOLUENE						
CHLORODIBROMOMETHANE		< .5		< .5		
CHLOROETHANE		< .9		< .9	< 4	< 10
CHLOROMETHANE		< .8		< .8	< 4	< 10
CARBON TETRACHLORIDE		< .5		< .5	< 4	< 5
P-CYMENE (p-ISOPROPYLTOLUENE)						
DIBROMOCHLOROMETHANE					< 4	< 5

Volatiles In Surface Water
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	SHIP CREEK 2					
Location ID	687-NS-405					
Sampe ID	GN890044	GN890044	GN890068	GN890068	GN900099	GN900156
Sample Date	890705	890705	890821	890821	900401	900625
Laboratory ID	020301	020401	020302	020401	26451	9011130
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,2-DIBROMO-3-CHLOROPROPANE						
DIBROMOMETHANE						
1,1-DICHLOROETHANE		< .4		< .4	< 4	< 5
1,2-DICHLOROETHANE		< .3		< .3	< 4	< 5
1,2-DICHLOROETHANE-D4						
1,1-DICHLOROETHENE		< .3		< .3	< 4	< 5
1,1,1-DICHLOROETHENE						
cis-1,2-DICHLOROETHYLENE						
DCE12E						
trans-1,2-DICHLOROETHENE		< .5		< .5	< 4	< 5
1,2-DICHLOROETHENE(TOTAL)						
DICHLOROMETHANE						
1,1-DICHLOROPROPENE						
1,3-DICHLOROPROPYLENE (1,3-DICHLOROPROPENE MIXTURE)						
cis-1,3-DICHLOROPROPENE		< .5		< .5	< 4	< 5
trans-1,3-DICHLOROPROPENE		< .5		< .5	< 4	< 5
DCPA11						
1,2-DICHLOROPROPANE		< .3		< .3	< 4	< 5
1,3-DICHLOROPROPANE						
2,2-DICHLOROPROPANE						
ETHYLBENZENE	< .5		< .3		< 4	< 5
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)						
ETEDIBROMIDE						
TRICHLOROFLUOROMETHANE		< .4		< .4	< 4	< 5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE						

Volatiles In Surface Water
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	**SHIP CREEK 2**					
Location ID	**687-NS-405**					
Sampe ID	**GN890044**	**GN890044**	**GN890068**	**GN890068**	**GN900099**	**GN900156**
Sample Date	**890705**	**890705**	**890821**	**890821**	**900401**	**900625**
Laboratory ID	**020301**	**020401**	**020302**	**020401**	**26451**	**9011130**
Units	**µg/l**	**µg/l**	**µg/l**	**µg/l**	**µg/l**	**µg/l**
DICHLORODIFLUOROMETHANE		< .9		< .9		
2-HEXANONE					< 4	< 50
ISOPROPYLBENZENE (CUMENE)						
METHYL ETHYL KETONE (2-BUTANONE)					< 4	< 100
CRESOLS, m & p						
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)					< 4	< 50
METHYLENE CHLORIDE		< .4		< .4	5.65	< 5
n-PROPYLBENZENE						
1,1,2,2-TETRACHLOROETHANE		< .5		< .5	< 4	< 5
TETRACHLOROETHYLENE(PCE)		< .6		< .6	< 4	< 5
STYRENE					< 4	< 5
BROMOFORM		< .7		< .7	< 4	< 5
TRICHLOROBENZENE						
1,1,1,2-TETRACHLOROETHANE						
1,1,1-TRICHLOROETHANE		< .5		< .5	< 4	< 5
1,1,2-TRICHLOROETHANE		< .5		< .5	< 4	< 5
1,2,3-TRICHLOROBENZENE						
TRICHLOROETHYLENE (TCE)		< .5		< .5	< 4	< 5
CHLOROFORM		< .3		< .3	< 4	< 5
1,2,3-TRICHLOROPROPANE						
1,2,4-TRIMETHYLBENZENE						
1,3,5-TRIMETHYLBENZENE (MESITYLENE)						
VINYL ACETATE					< .004	< 50
VINYL CHLORIDE		< .9		< .9	< 4	< 10
VOLATILE AROMATIC SCREEN						

Volatiles In Surface Water
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	SHIP CREEK 2					
Location ID	687-NS-405					
Sampe ID	GN890044	GN890044	GN890068	GN890068	GN900099	GN900156
Sample Date	890705	890705	890821	890821	900401	900625
Laboratory ID	020301	020401	020302	020401	26451	9011130
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
VOLATILE ORGANIC HALOCARBON SCREEN						
XYLENES, TOTAL						< 5
XYLENENS1214					< 4	
M-XYLENE (1,3-DIMETHYLBENZENE)					< 4	
M,P-XYLENE (SUM OF ISOMERS)						
O-XYLENE (1,2-DIMETHYLBENZENE)						
P-XYLENE (1,4-DIMETHYLBENZENE)						

<- less than detection limit

Volatiles In Surface Water
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	SHIP CREEK 2	
Location ID	687-NS-405	
Sampe ID	GN90288	GN912330
Sample Date	901107	911021
Laboratory ID	90111511-3	020201
Units	µg/l	µg/l
ACETONE	< 100	
ACROLEIN	< 50	
ACRYLONITRILE	< 50	
BROMODICHLOROMETHANE	< 5	< 2.3
BROMOBENZENE		
BROMOCHLOROMETHANE		
BROMOFLUOROBENZENE-p		
BROMOMETHANE	< 10	< 4
n-BUTYLBENZENE		
SEC-BUTYLBENZENE		
t-BUTYLBENZENE		
BENZENE	< 5	< 1.6
TOLUENE	< 5	< 1.1
TOLUENE-D8		
CARBON DISULFIDE	< 5	
2-CHLOROETHYL VINYL ETHER	< 10	< 4
CHLOROBENZENE	< 5	< 3.4
2-CHLOROTOLUENE		
4-CHLOROTOLUENE		
CHLORODIBROMOMETHANE		< 3.4
CHLOROETHANE	< 10	< 4
CHLOROMETHANE	< 10	< 4
CARBON TETRACHLORIDE	< 5	< 2.2
P-CYMENE (p-ISOPROPYLTOLUENE)		
DIBROMOCHLOROMETHANE	< 5	

Volatiles In Surface Water
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	SHIP CREEK 2	
Location ID	687-NS-405	
Sampe ID	GN90288	GN912330
Sample Date	901107	911021
Laboratory ID	90111511-3	020201
Units	µg/l	µg/l
1,2-DIBROMO-3-CHLOROPROPANE		
DIBROMOMETHANE		
1,1-DICHLOROETHANE	< 5	< 1.2
1,2-DICHLOROETHANE	< 5	< 1.6
1,2-DICHLOROETHANE-D4		
1,1-DICHLOROETHENE	< 5	< 1.9
1,1,1-DICHLOROETHENE		
cis-1,2-DICHLOROETHYLENE		
DCE12E		
trans-1,2-DICHLOROETHENE	< 5	< 1.2
1,2-DICHLOROETHENE(TOTAL)		
DICHLOROMETHANE		
1,1-DICHLOROPROPENE		
1,3-DICHLOROPROPYLENE (1,3-DICHLOROPROPENE MIXTURE)		
cis-1,3-DICHLOROPROPENE	< 5	< 1.1
trans-1,3-DICHLOROPROPENE	< 5	< .3
DCPA11		
1,2-DICHLOROPROPANE	< 5	< 1.3
1,3-DICHLOROPROPANE		
2,2-DICHLOROPROPANE		
ETHYLBENZENE	< 5	< 2.8
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)		
ETEDIBROMIDE		
TRICHLOROFLUOROMETHANE	< 5	< 4
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE		

Volatiles In Surface Water
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	SHIP CREEK 2	
Location ID	687-NS-405	
Sampe ID	GN90288	GN912330
Sample Date	901107	911021
Laboratory ID	90111511-3	020201
Units	µg/l	µg/l
DICHLORODIFLUOROMETHANE		
2-HEXANONE	< 50	
ISOPROPYLBENZENE (CUMENE)		
METHYL ETHYL KETONE (2-BUTANONE)	< 100	
CRESOLS, m & p		
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	< 50	
METHYLENE CHLORIDE	< 5	< 4.74
n-PROPYLBENZENE		
1,1,2,2-TETRACHLOROETHANE	< 5	< 4
TETRACHLOROETHYLENE(PCE)	< 5	< 3
STYRENE	< 5	
BROMOFORM	< 5	< 3.1
TRICHLOROBENZENE		
1,1,1,2-TETRACHLOROETHANE		
1,1,1-TRICHLOROETHANE	< 5	< 1.1
1,1,2-TRICHLOROETHANE	< 5	< 3.4
1,2,3-TRICHLOROBENZENE		
TRICHLOROETHYLENE (TCE)	< 5	< 1.9
CHLOROFORM	< 5	< .6
1,2,3-TRICHLOROPROPANE		
1,2,4-TRIMETHYLBENZENE		
1,3,5-TRIMETHYLBENZENE (MESITYLENE)		
VINYL ACETATE	< 10	
VINYL CHLORIDE	< 10	< 4
VOLATILE AROMATIC SCREEN		

Volatiles In Surface Water
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	SHIP CREEK 2	
Location ID	687-NS-405	
Sampe ID	GN90288	GN912330
Sample Date	901107	911021
Laboratory ID	90111511-3	020201
Units	µg/l	µg/l
VOLATILE ORGANIC HALOCARBON SCREEN		
XYLENES, TOTAL	< 5	
XYLENENS1214		
M-XYLENE (1,3-DIMETHYLBENZENE)		
M,P-XYLENE (SUM OF ISOMERS)		
O-XYLENE (1,2-DIMETHYLBENZENE)		
P-XYLENE (1,4-DIMETHYLBENZENE)		

<- less than detection limit

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name (Bldg. Number)					CHERRY HILL DITCH	
Location ID					687-NO-401	
Sample ID	D213	D219	POTW 1118	TB	CHHILL0184	CHHILL0185
Sample Date	880605	880605	871118	871118	840101	850101
Lab Sample ID	06/190670	06/190674	11/180137	11/180138	CHHILL0184	CHHILL0185
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ACENAPHTHALENE						
ACENAPHTHENE						
ANILINE (PHENYLAMINE, AMINOBENZENE)						
ANTHRACENE						
BENZYL BUTYL PHTHALATE						
bis(2-CHLOROETHOXY) METHANE						
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)						
bis(2-CHLOROISOPROPYL) ETHER						
bis(2-ETHYLHEXYL) PHTHALATE						
4-BROMOPHENYL PHENYL ETHER						
BENZO(a)ANTHRACENE						
BENZOIC ACID						
BENZO(a)PYRENE						
BENZO(b)FLUORANTHENE						
BENZIDINE						
BENZO(g,h,i)PERYLENE						
BENZO(k)FLUORANTHENE						
BENZYL ALCOHOL						
4-CHLORO-3-METHYLPHENOL						
CHRYSENE						
4-CHLOROANILINE						
2-CHLOROPHENOL	< 10	< 10				
2-CHLORONAPHTHALENE						
4-CHLOROPHENYL PHENYL ETHER						
DIBENZ(a,h)ANTHRACENE						
DIBENZOFURAN						
3,3'-DICHLOROBENZIDINE						

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name (Bldg. Number)					CHERRY HILL DITCH	
Location ID					687-NO-401	
Sample ID	D213	D219	POTW 1118	TB	CHHILL0184	CHHILL0185
Sample Date	880605	880605	871118	871118	840101	850101
Lab Sample ID	06/190670	06/190674	11/180137	11/180138	CHHILL0184	CHHILL0185
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,2-DICHLOROBENZENE			< .5	< .5		
1,3-DICHLOROBENZENE			< .5	< .5		
1,4-DICHLOROBENZENE			< .5	< .5		
DICHLOROBENZENES						
2,4-DICHLOROPHENOL	< 8.8	< 33				
DIETHYL PHTHALATE						
2,4-DIMETHYLPHENOL	< 7.8	< 7.8				
DIMETHYL PHTHALATE						
4,6-DINITRO-2-METHYLPHENOL	< 24	< 240				
DI-n-BUTYL PHTHALATE						
DI-n-OCTYL PHTHALATE (bis-(2-ETHYLHEXYL)PHTHALATE)						
2,4-DINITROPHENOL	< 30	< 300				
2,4-DINITROTOLUENE						
2,6-DINITROTOLUENE						
1,2-DIPHENYLHYDRAZINE						
FLUORENE						
FLUORANTHENE						
HEXACHLOROBUTADIENE						
HEXACHLOROCYCLOPENTADIENE						
HEXACHLOROBENZENE						
HEXACHLOROETHANE						
INDENO(1,2,3-c,d)PYRENE						
ISOPHORONE						
2-METHYLPHENOL (o-CRESOL)						
4-METHYLPHENOL (p-CRESOL)						
2-METHYLNAPHTHALENE						
NAPHTHALENE						

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name (Bldg. Number)					CHERRY HILL DITCH	
Location ID					687-NO-401	
Sample ID	D213	D219	POTW 1118	TB	CHHILL0184	CHHILL0185
Sample Date	880605	880605	871118	871118	840101	850101
Lab Sample ID	06/190670	06/190674	11/180137	11/180138	CHHILL0184	CHHILL0185
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
N-NITROSODIMETHYLAMINE						
N-NITROSODIPHENYLAMINE						
N-NITROSODI-n-PROPYLAMINE						
2-NITROANILINE						
3-NITROANILINE						
4-NITROANILINE						
NITROBENZENE						
2-NITROPHENOL	< 12	< 120				
4-NITROPHENOL	< 22	< 220				
PENTACHLOROPHENOL	< 32	< 320				
PHENANTHRENE						
PHENOL	< 8.2	< 8.2			< 10000	< 10000
PYRENE						
SURFACTANTS						
1,2,4-TRICHLOROBENZENE						
2,4,5-TRICHLOROPHENOL						
2,4,6-TRICHLOROPHENOL	< 24	< 240				
TETRACHLOROPHENOLS, TOTAL						

< = less than detection limit

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name (Bldg. Number) Location ID	CHERRY HILL DITCH 687-NO-401					
Sample ID	CHHILL0284	CHHILL0285	CHHILL0384	CHHILL0385	CHHILL0386	CHHILL0484
Sample Date	840201	850201	840301	850301	860301	840401
Lab Sample ID	CHHILL0284	CHHILL0285	CHHILL0384	CHHILL0385	CHHILL0386	CHHILL0484
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ACENAPHTHALENE						
ACENAPHTHENE						
ANILINE (PHENYLAMINE, AMINOBENZENE)						
ANTHRACENE						
BENZYL BUTYL PHTHALATE						
bis(2-CHLOROETHOXY) METHANE						
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)						
bis(2-CHLOROISOPROPYL) ETHER						
bis(2-ETHYLHEXYL) PHTHALATE						
4-BROMOPHENYL PHENYL ETHER						
BENZO(a)ANTHRACENE						
BENZOIC ACID						
BENZO(a)PYRENE						
BENZO(b)FLUORANTHENE						
BENZIDINE						
BENZO(g,h,i)PERYLENE						
BENZO(k)FLUORANTHENE						
BENZYL ALCOHOL						
4-CHLORO-3-METHYLPHENOL						
CHRYSENE						
4-CHLOROANILINE						
2-CHLOROPHENOL						
2-CHLORONAPHTHALENE						
4-CHLOROPHENYL PHENYL ETHER						
DIBENZ(a,h)ANTHRACENE						
DIBENZOFURAN						
3,3'-DICHLOROBENZIDINE						

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name (Bldg. Number) Location ID	CHERRY HILL DITCH 687-NO-401					
Sample ID	CHHILL0284	CHHILL0285	CHHILL0384	CHHILL0385	CHHILL0386	CHHILL0484
Sample Date	840201	850201	840301	850301	860301	840401
Lab Sample ID	CHHILL0284	CHHILL0285	CHHILL0384	CHHILL0385	CHHILL0386	CHHILL0484
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,2-DICHLOROBENZENE						
1,3-DICHLOROBENZENE						
1,4-DICHLOROBENZENE						
DICHLOROBENZENES						
2,4-DICHLOROPHENOL						
DIETHYL PHTHALATE						
2,4-DIMETHYLPHENOL						
DIMETHYL PHTHALATE						
4,6-DINITRO-2-METHYLPHENOL						
DI-n-BUTYL PHTHALATE						
DI-n-OCTYL PHTHALATE (bis-(2-ETHYLHEXYL)PHTHALATE)						
2,4-DINITROPHENOL						
2,4-DINITROTOLUENE						
2,6-DINITROTOLUENE						
1,2-DIPHENYLHYDRAZINE						
FLUORENE						
FLUORANTHENE						
HEXACHLOROBUTADIENE						
HEXACHLOROCYCLOPENTADIENE						
HEXACHLOROBENZENE						
HEXACHLOROETHANE						
INDENO(1,2,3-c,d)PYRENE						
ISOPHORONE						
2-METHYLPHENOL (o-CRESOL)						
4-METHYLPHENOL (p-CRESOL)						
2-METHYLNAPHTHALENE						
NAPHTHALENE						

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name (Bldg. Number)	CHERRY HILL DITCH					
Location ID	687-NO-401					
Sample ID	CHHILL0284	CHHILL0285	CHHILL0384	CHHILL0385	CHHILL0386	CHHILL0484
Sample Date	840201	850201	840301	850301	860301	840401
Lab Sample ID	CHHILL0284	CHHILL0285	CHHILL0384	CHHILL0385	CHHILL0386	CHHILL0484
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
N-NITROSODIMETHYLAMINE						
N-NITROSODIPHENYLAMINE						
N-NITROSODI-n-PROPYLAMINE						
2-NITROANILINE						
3-NITROANILINE						
4-NITROANILINE						
NITROBENZENE						
2-NITROPHENOL						
4-NITROPHENOL						
PENTACHLOROPHENOL						
PHENANTHRENE						
PHENOL	< 10000	< 10000	< 10000	< 10000	< 10000	< 10000
PYRENE						
SURFACTANTS						
1,2,4-TRICHLOROBENZENE						
2,4,5-TRICHLOROPHENOL						
2,4,6-TRICHLOROPHENOL						
TETRACHLOROPHENOLS, TOTAL						

< = less than detection limit

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name (Bldg. Number) Location ID	CHERRY HILL DITCH 687-NO-401					
Sample ID	CHHILL0485	CHHILL0584	CHHILL0585	CHHILL0684	CHHILL0685	CHHILL0686
Sample Date	850401	840501	850501	840601	850601	860601
Lab Sample ID	CHHILL0485	CHHILL0584	CHHILL0585	CHHILL0684	CHHILL0685	CHHILL0686
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ACENAPHTHALENE						
ACENAPHTHENE						
ANILINE (PHENYLAMINE, AMINOBENZENE)						
ANTHRACENE						
BENZYL BUTYL PHTHALATE						
bis(2-CHLOROETHOXY) METHANE						
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)						
bis(2-CHLOROISOPROPYL) ETHER						
bis(2-ETHYLHEXYL) PHTHALATE						
4-BROMOPHENYL PHENYL ETHER						
BENZO(a)ANTHRACENE						
BENZOIC ACID						
BENZO(a)PYRENE						
BENZO(b)FLUORANTHENE						
BENZIDINE						
BENZO(g,h,i)PERYLENE						
BENZO(k)FLUORANTHENE						
BENZYL ALCOHOL						
4-CHLORO-3-METHYLPHENOL						
CHRYSENE						
4-CHLOROANILINE						
2-CHLOROPHENOL						
2-CHLORONAPHTHALENE						
4-CHLOROPHENYL PHENYL ETHER						
DIBENZ(a,h)ANTHRACENE						
DIBENZOFURAN						
3,3'-DICHLOROBENZIDINE						

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name (Bldg. Number)	CHERRY HILL DITCH					
Location ID	687-NO-401					
Sample ID	CHHILL0485	CHHILL0584	CHHILL0585	CHHILL0684	CHHILL0685	CHHILL0686
Sample Date	850401	840501	850501	840601	850601	860601
Lab Sample ID	CHHILL0485	CHHILL0584	CHHILL0585	CHHILL0684	CHHILL0685	CHHILL0686
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,2-DICHLOROBENZENE						
1,3-DICHLOROBENZENE						
1,4-DICHLOROBENZENE						
DICHLOROBENZENES						
2,4-DICHLOROPHENOL						
DIETHYL PHTHALATE						
2,4-DIMETHYLPHENOL						
DIMETHYL PHTHALATE						
4,6-DINITRO-2-METHYLPHENOL						
DI-n-BUTYL PHTHALATE						
DI-n-OCTYL PHTHALATE (bis-(2-ETHYLHEXYL)PHTHALATE)						
2,4-DINITROPHENOL						
2,4-DINITROTOLUENE						
2,6-DINITROTOLUENE						
1,2-DIPHENYLHYDRAZINE						
FLUORENE						
FLUORANTHENE						
HEXACHLOROBUTADIENE						
HEXACHLOROCYCLOPENTADIENE						
HEXACHLOROBENZENE						
HEXACHLOROETHANE						
INDENO(1,2,3-c,d)PYRENE						
ISOPHORONE						
2-METHYLPHENOL (o-CRESOL)						
4-METHYLPHENOL (p-CRESOL)						
2-METHYLNAPHTHALENE						
NAPHTHALENE						

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name (Bldg. Number)	CHERRY HILL DITCH					
Location ID	687-NO-401					
Sample ID	CHHILL0485	CHHILL0584	CHHILL0585	CHHILL0684	CHHILL0685	CHHILL0686
Sample Date	850401	840501	850501	840601	850601	860601
Lab Sample ID	CHHILL0485	CHHILL0584	CHHILL0585	CHHILL0684	CHHILL0685	CHHILL0686
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
N-NITROSODIMETHYLAMINE						
N-NITROSODIPHENYLAMINE						
N-NITROSODI-n-PROPYLAMINE						
2-NITROANILINE						
3-NITROANILINE						
4-NITROANILINE						
NITROBENZENE						
2-NITROPHENOL						
4-NITROPHENOL						
PENTACHLOROPHENOL						
PHENANTHRENE						
PHENOL	< 10000	< 10000	140000	< 10000	23000	< 10000
PYRENE						
SURFACTANTS						
1,2,4-TRICHLOROBENZENE						
2,4,5-TRICHLOROPHENOL						
2,4,6-TRICHLOROPHENOL						
TETRACHLOROPHENOLS, TOTAL						

< = less than detection limit

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name (Bldg. Number) Location ID Sample ID Sample Date Lab Sample ID Units	CHERRY HILL DITCH 687-NO-401 CHHILL0784 840701 CHHILL0784 µg/l	CHHILL0785 850701 CHHILL0785 µg/l	CHHILL0884 840801 CHHILL0884 µg/l	CHHILL0885 850801 CHHILL0885 µg/l	CHHILL0984 840901 CHHILL0984 µg/l	CHHILL0986 860901 CHHILL0986 µg/l
ACENAPHTHALENE						
ACENAPHTHENE						
ANILINE (PHENYLAMINE, AMINOBENZENE)						
ANTHRACENE						
BENZYL BUTYL PHTHALATE						
bis(2-CHLOROETHOXY) METHANE						
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)						
bis(2-CHLOROISOPROPYL) ETHER						
bis(2-ETHYLHEXYL) PHTHALATE						
4-BROMOPHENYL PHENYL ETHER						
BENZO(a)ANTHRACENE						
BENZOIC ACID						
BENZO(a)PYRENE						
BENZO(b)FLUORANTHENE						
BENZIDINE						
BENZO(g,h,i)PERYLENE						
BENZO(k)FLUORANTHENE						
BENZYL ALCOHOL						
4-CHLORO-3-METHYLPHENOL						
CHRYSENE						
4-CHLOROANILINE						
2-CHLOROPHENOL						
2-CHLORONAPHTHALENE						
4-CHLOROPHENYL PHENYL ETHER						
DIBENZ(a,h)ANTHRACENE						
DIBENZOFURAN						
3,3'-DICHLOROBENZIDINE						

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	CHERRY					
(Bldg. Number)	HILL DITCH					
Location ID	687-NO-401					
Sample ID	CHHILL0784	CHHILL0785	CHHILL0884	CHHILL0885	CHHILL0984	CHHILL0986
Sample Date	840701	850701	840801	850801	840901	860901
Lab Sample ID	CHHILL0784	CHHILL0785	CHHILL0884	CHHILL0885	CHHILL0984	CHHILL0986
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,2-DICHLOROBENZENE						
1,3-DICHLOROBENZENE						
1,4-DICHLOROBENZENE						
DICHLOROBENZENES						
2,4-DICHLOROPHENOL						
DIETHYL PHTHALATE						
2,4-DIMETHYLPHENOL						
DIMETHYL PHTHALATE						
4,6-DINITRO-2-METHYLPHENOL						
DI-n-BUTYL PHTHALATE						
DI-n-OCTYL PHTHALATE (bis-(2-ETHYLHEXYL)PHTHALATE)						
2,4-DINITROPHENOL						
2,4-DINITROTOLUENE						
2,6-DINITROTOLUENE						
1,2-DIPHENYLHYDRAZINE						
FLUORENE						
FLUORANTHENE						
HEXACHLOROBUTADIENE						
HEXACHLOROCYCLOPENTADIENE						
HEXACHLOROBENZENE						
HEXACHLOROETHANE						
INDENO(1,2,3-c,d)PYRENE						
ISOPHORONE						
2-METHYLPHENOL (o-CRESOL)						
4-METHYLPHENOL (p-CRESOL)						
2-METHYLNAPHTHALENE						
NAPHTHALENE						

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name (Bldg. Number) Location ID	CHERRY HILL DITCH 687-NO-401					
Sample ID	CHHILL0784	CHHILL0785	CHHILL0884	CHHILL0885	CHHILL0984	CHHILL0986
Sample Date	840701	850701	840801	850801	840901	860901
Lab Sample ID	CHHILL0784	CHHILL0785	CHHILL0884	CHHILL0885	CHHILL0984	CHHILL0986
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
N-NITROSODIMETHYLAMINE						
N-NITROSODIPHENYLAMINE						
N-NITROSODI-n-PROPYLAMINE						
2-NITROANILINE						
3-NITROANILINE						
4-NITROANILINE						
NITROBENZENE						
2-NITROPHENOL						
4-NITROPHENOL						
PENTACHLOROPHENOL						
PHENANTHRENE						
PHENOL	< 10000	< 10000	< 10000	< 10000	< 10000	< 10000
PYRENE						
SURFACTANTS						
1,2,4-TRICHLOROBENZENE						
2,4,5-TRICHLOROPHENOL						
2,4,6-TRICHLOROPHENOL						
TETRACHLOROPHENOLS, TOTAL						

< = less than detection limit

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name (Bldg. Number) Location ID Sample ID Sample Date Lab Sample ID Units	CHERRY HILL DITCH 687-NO-401 CHHILL1084 841001 CHHILL1084 µg/l	CHHILL1184 841101 CHHILL1184 µg/l	CHHILL1185 851101 CHHILL1185 µg/l	CHHILL1186 861101 CHHILL1186 µg/l	CHHILL1284 841201 CHHILL1284 µg/l	GN870177 870330 021090 µg/l
ACENAPHTHALENE						
ACENAPHTHENE						
ANILINE (PHENYLAMINE, AMINOBENZENE)						
ANTHRACENE						
BENZYL BUTYL PHTHALATE						
bis(2-CHLOROETHOXY) METHANE						
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)						
bis(2-CHLOROISOPROPYL) ETHER						
bis(2-ETHYLHEXYL) PHTHALATE						
4-BROMOPHENYL PHENYL ETHER						
BENZO(a)ANTHRACENE						
BENZOIC ACID						
BENZO(a)PYRENE						
BENZO(b)FLUORANTHENE						
BENZIDINE						
BENZO(g,h,i)PERYLENE						
BENZO(k)FLUORANTHENE						
BENZYL ALCOHOL						
4-CHLORO-3-METHYLPHENOL						
CHRYSENE						
4-CHLOROANILINE						
2-CHLOROPHENOL						
2-CHLORONAPHTHALENE						
4-CHLOROPHENYL PHENYL ETHER						
DIBENZ(a,h)ANTHRACENE						
DIBENZOFURAN						
3,3'-DICHLOROBENZIDINE						

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	CHERRY					
(Bldg. Number)	HILL DITCH					
Location ID	687-NO-401					
Sample ID	CHHILL1084	CHHILL1184	CHHILL1185	CHHILL1186	CHHILL1284	GN870177
Sample Date	841001	841101	851101	861101	841201	870330
Lab Sample ID	CHHILL1084	CHHILL1184	CHHILL1185	CHHILL1186	CHHILL1284	021090
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,2-DICHLOROBENZENE						
1,3-DICHLOROBENZENE						
1,4-DICHLOROBENZENE						
DICHLOROBENZENES						
2,4-DICHLOROPHENOL						
DIETHYL PHTHALATE						
2,4-DIMETHYLPHENOL						
DIMETHYL PHTHALATE						
4,6-DINITRO-2-METHYLPHENOL						
DI-n-BUTYL PHTHALATE						
DI-n-OCTYL PHTHALATE (bis-(2-ETHYLHEXYL)PHTHALATE)						
2,4-DINITROPHENOL						
2,4-DINITROTOLUENE						
2,6-DINITROTOLUENE						
1,2-DIPHENYLHYDRAZINE						
FLUORENE						
FLUORANTHENE						
HEXACHLOROBUTADIENE						
HEXACHLOROCYCLOPENTADIENE						
HEXACHLOROBENZENE						
HEXACHLOROETHANE						
INDENO(1,2,3-c,d)PYRENE						
ISOPHORONE						
2-METHYLPHENOL (o-CRESOL)						
4-METHYLPHENOL (p-CRESOL)						
2-METHYLNAPHTHALENE						
NAPHTHALENE						

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name (Bldg. Number) Location ID	CHERRY HILL DITCH 687-NO-401					
Sample ID	CHHILL1084	CHHILL1184	CHHILL1185	CHHILL1186	CHHILL1284	GN870177
Sample Date	841001	841101	851101	861101	841201	870330
Lab Sample ID	CHHILL1084	CHHILL1184	CHHILL1185	CHHILL1186	CHHILL1284	021090
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
N-NITROSODIMETHYLAMINE						
N-NITROSODIPHENYLAMINE						
N-NITROSODI-n-PROPYLAMINE						
2-NITROANILINE						
3-NITROANILINE						
4-NITROANILINE						
NITROBENZENE						
2-NITROPHENOL						
4-NITROPHENOL						
PENTACHLOROPHENOL						
PHENANTHRENE						
PHENOL	< 10000	< 10000	< 10000	< 10000	< 10000	< 10
PYRENE						
SURFACTANTS						
1,2,4-TRICHLOROBENZENE						
2,4,5-TRICHLOROPHENOL						
2,4,6-TRICHLOROPHENOL						
TETRACHLOROPHENOLS, TOTAL						

< = less than detection limit

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name (Bldg. Number) Location ID	CHERRY HILL DITCH 687-NO-401						
Sample ID	GN870774	GN870845	GN880022	GN880113	GN880164	GN880208	GN890017
Sample Date	871028	871119	880329	880629	880923	881115	890328
Lab Sample ID	076396	082668	020593	044508	061215	072484	018447
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ACENAPHTHALENE							
ACENAPHTHENE							
ANILINE (PHENYLAMINE, AMINOBENZENE)							
ANTHRACENE							
BENZYL BUTYL PHTHALATE							
bis(2-CHLOROETHOXY) METHANE							
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)							
bis(2-CHLOROISOPROPYL) ETHER							
bis(2-ETHYLHEXYL) PHTHALATE							
4-BROMOPHENYL PHENYL ETHER							
BENZO(a)ANTHRACENE							
BENZOIC ACID							
BENZO(a)PYRENE							
BENZO(b)FLUORANTHENE							
BENZIDINE							
BENZO(g,h,i)PERYLENE							
BENZO(k)FLUORANTHENE							
BENZYL ALCOHOL							
4-CHLORO-3-METHYLPHENOL							
CHRYSENE							
4-CHLOROANILINE							
2-CHLOROPHENOL							
2-CHLORONAPHTHALENE							
4-CHLOROPHENYL PHENYL ETHER							
DIBENZ(a,h)ANTHRACENE							
DIBENZOFURAN							
3,3'-DICHLOROBENZIDINE							

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name (Bldg. Number)	CHERRY HILL DITCH						
Location ID	687-NO-401						
Sample ID	GN870774	GN870845	GN880022	GN880113	GN880164	GN880208	GN890017
Sample Date	871028	871119	880329	880629	880923	881115	890328
Lab Sample ID	076396	082668	020593	044508	061215	072484	018447
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,2-DICHLOROBENZENE							
1,3-DICHLOROBENZENE							
1,4-DICHLOROBENZENE							
DICHLOROBENZENES							
2,4-DICHLOROPHENOL							
DIETHYL PHTHALATE							
2,4-DIMETHYLPHENOL							
DIMETHYL PHTHALATE							
4,6-DINITRO-2-METHYLPHENOL							
DI-n-BUTYL PHTHALATE							
DI-n-OCTYL PHTHALATE (bis-(2-ETHYLHEXYL)PHTHALATE)							
2,4-DINITROPHENOL							
2,4-DINITROTOLUENE							
2,6-DINITROTOLUENE							
1,2-DIPHENYLHYDRAZINE							
FLUORENE							
FLUORANTHENE							
HEXACHLOROBUTADIENE							
HEXACHLOROCYCLOPENTADIENE							
HEXACHLOROBENZENE							
HEXACHLOROETHANE							
INDENO(1,2,3-c,d)PYRENE							
ISOPHORONE							
2-METHYLPHENOL (o-CRESOL)							
4-METHYLPHENOL (p-CRESOL)							
2-METHYLNAPHTHALENE							
NAPHTHALENE							

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	CHERRY						
(Bldg. Number)	HILL DITCH						
Location ID	687-NO-401						
Sample ID	GN870774	GN870845	GN880022	GN880113	GN880164	GN880208	GN890017
Sample Date	871028	871119	880329	880629	880923	881115	890328
Lab Sample ID	076396	082668	020593	044508	061215	072484	018447
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
N-NITROSODIMETHYLAMINE							
N-NITROSODIPHENYLAMINE							
N-NITROSODI-n-PROPYLAMINE							
2-NITROANILINE							
3-NITROANILINE							
4-NITROANILINE							
NITROBENZENE							
2-NITROPHENOL							
4-NITROPHENOL							
PENTACHLOROPHENOL							
PHENANTHRENE							
PHENOL	< 10	< 10	< 10	< 10	< 10	< 10	< 10
PYRENE							
SURFACTANTS							
1,2,4-TRICHLOROBENZENE							
2,4,5-TRICHLOROPHENOL							
2,4,6-TRICHLOROPHENOL							
TETRACHLOROPHENOLS, TOTAL							

< = less than detection limit

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	CHERRY						
(Bldg. Number)	HILL DITCH						
Location ID	687-NO-401						
Sample ID	GN890040	GN890077	GN900089	GN900142	GN900281	GN912076	GN912244
Sample Date	890629	891030	900417	900625	901007	910423	910724
Lab Sample ID	039956	021401	021302	021302	90068772	021302	021302
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ACENAPHTHALENE							
ACENAPHTHENE							
ANILINE (PHENYLAMINE, AMINOBENZENE)							
ANTHRACENE							
BENZYL BUTYL PHTHALATE							
bis(2-CHLOROETHOXY) METHANE							
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)							
bis(2-CHLOROISOPROPYL) ETHER							
bis(2-ETHYLHEXYL) PHTHALATE							
4-BROMOPHENYL PHENYL ETHER							
BENZO(a)ANTHRACENE							
BENZOIC ACID							
BENZO(a)PYRENE							
BENZO(b)FLUORANTHENE							
BENZIDINE							
BENZO(g,h,i)PERYLENE							
BENZO(k)FLUORANTHENE							
BENZYL ALCOHOL							
4-CHLORO-3-METHYLPHENOL							
CHRYSENE							
4-CHLOROANILINE							
2-CHLOROPHENOL							
2-CHLORONAPHTHALENE							
4-CHLOROPHENYL PHENYL ETHER							
DIBENZ(a,h)ANTHRACENE							
DIBENZOFURAN							
3,3'-DICHLOROBENZIDINE							

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	CHERRY						
(Bldg. Number)	HILL DITCH						
Location ID	687-NO-401						
Sample ID	GN890040	GN890077	GN900089	GN900142	GN900281	GN912076	GN912244
Sample Date	890629	891030	900417	900625	901007	910423	910724
Lab Sample ID	039956	021401	021302	021302	90068772	021302	021302
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,2-DICHLOROBENZENE							
1,3-DICHLOROBENZENE							
1,4-DICHLOROBENZENE							
DICHLOROBENZENES							
2,4-DICHLOROPHENOL							
DIETHYL PHTHALATE							
2,4-DIMETHYLPHENOL							
DIMETHYL PHTHALATE							
4,6-DINITRO-2-METHYLPHENOL							
DI-n-BUTYL PHTHALATE							
DI-n-OCTYL PHTHALATE (bis-(2-ETHYLHEXYL)PHTHALATE)							
2,4-DINITROPHENOL							
2,4-DINITROTOLUENE							
2,6-DINITROTOLUENE							
1,2-DIPHENYLHYDRAZINE							
FLUORENE							
FLUORANTHENE							
HEXACHLOROBUTADIENE							
HEXACHLOROCYCLOPENTADIENE							
HEXACHLOROBENZENE							
HEXACHLOROETHANE							
INDENO(1,2,3-c,d)PYRENE							
ISOPHORONE							
2-METHYLPHENOL (o-CRESOL)							
4-METHYLPHENOL (p-CRESOL)							
2-METHYLNAPHTHALENE							
NAPHTHALENE							

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name (Bldg. Number) Location ID	CHERRY HILL DITCH 687-NO-401						
Sample ID	GN890040	GN890077	GN900089	GN900142	GN900281	GN912076	GN912244
Sample Date	890629	891030	900417	900625	901007	910423	910724
Lab Sample ID	039956	021401	021302	021302	90068772	021302	021302
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
N-NITROSODIMETHYLAMINE							
N-NITROSODIPHENYLAMINE							
N-NITROSODI-n-PROPYLAMINE							
2-NITROANILINE							
3-NITROANILINE							
4-NITROANILINE							
NITROBENZENE							
2-NITROPHENOL							
4-NITROPHENOL							
PENTACHLOROPHENOL							
PHENANTHRENE							
PHENOL	< 10	< 10	< 10	< 10	< 10	< 10	< 10
PYRENE							
SURFACTANTS							
1,2,4-TRICHLOROBENZENE							
2,4,5-TRICHLOROPHENOL							
2,4,6-TRICHLOROPHENOL							
TETRACHLOROPHENOLS, TOTAL							

< = less than detection limit

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name (Bldg. Number)	CHERRY HILL DITCH	GOVERNMENT HILL STORM				
Location ID	687-NO-401	687-NO-406				
Sample ID	GN912342	GN870178	GN870708	GN870844	GN880023	GN880114
Sample Date	911023	870330	870924	871119	880329	880629
Lab Sample ID	021302	021098	068287	082665	020595	044513
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ACENAPHTHALENE						
ACENAPHTHENE						
ANILINE (PHENYLAMINE, AMINOBENZENE)						
ANTHRACENE						
BENZYL BUTYL PHTHALATE						
bis(2-CHLOROETHOXY) METHANE						
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)						
bis(2-CHLOROISOPROPYL) ETHER						
bis(2-ETHYLHEXYL) PHTHALATE						
4-BROMOPHENYL PHENYL ETHER						
BENZO(a)ANTHRACENE						
BENZOIC ACID						
BENZO(a)PYRENE						
BENZO(b)FLUORANTHENE						
BENZIDINE						
BENZO(g,h,i)PERYLENE						
BENZO(k)FLUORANTHENE						
BENZYL ALCOHOL						
4-CHLORO-3-METHYLPHENOL						
CHRYSENE						
4-CHLOROANILINE						
2-CHLOROPHENOL						
2-CHLORONAPHTHALENE						
4-CHLOROPHENYL PHENYL ETHER						
DIBENZ(a,h)ANTHRACENE						
DIBENZOFURAN						
3,3'-DICHLOROBENZIDINE						

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name (Bldg. Number)	CHERRY HILL DITCH	GOVERNMENT HILL STORM				
Location ID	687-NO-401	687-NO-406				
Sample ID	GN912342	GN870178	GN870708	GN870844	GN880023	GN880114
Sample Date	911023	870330	870924	871119	880329	880629
Lab Sample ID	021302	021098	068287	082665	020595	044513
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,2-DICHLOROBENZENE						
1,3-DICHLOROBENZENE						
1,4-DICHLOROBENZENE						
DICHLOROBENZENES						
2,4-DICHLOROPHENOL						
DIETHYL PHTHALATE						
2,4-DIMETHYLPHENOL						
DIMETHYL PHTHALATE						
4,6-DINITRO-2-METHYLPHENOL						
DI-n-BUTYL PHTHALATE						
DI-n-OCTYL PHTHALATE (bis-(2-ETHYLHEXYL)PHTHALATE)						
2,4-DINITROPHENOL						
2,4-DINITROTOLUENE						
2,6-DINITROTOLUENE						
1,2-DIPHENYLHYDRAZINE						
FLUORENE						
FLUORANTHENE						
HEXACHLOROBUTADIENE						
HEXACHLOROCYCLOPENTADIENE						
HEXACHLOROBENZENE						
HEXACHLOROETHANE						
INDENO(1,2,3-c,d)PYRENE						
ISOPHORONE						
2-METHYLPHENOL (o-CRESOL)						
4-METHYLPHENOL (p-CRESOL)						
2-METHYLNAPHTHALENE						
NAPHTHALENE						

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name (Bldg. Number)	CHERRY HILL DITCH	GOVERNMENT HILL STORM				
Location ID	687-NO-401	687-NO-406				
Sample ID	GN912342	GN870178	GN870708	GN870844	GN880023	GN880114
Sample Date	911023	870330	870924	871119	880329	880629
Lab Sample ID	021302	021098	068287	082665	020595	044513
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
N-NITROSODIMETHYLAMINE						
N-NITROSODIPHENYLAMINE						
N-NITROSODI-n-PROPYLAMINE						
2-NITROANILINE						
3-NITROANILINE						
4-NITROANILINE						
NITROBENZENE						
2-NITROPHENOL						
4-NITROPHENOL						
PENTACHLOROPHENOL						
PHENANTHRENE						
PHENOL	< 10	18	< 10	< 10	< 10	< 10
PYRENE						
SURFACTANTS						
1,2,4-TRICHLOROBENZENE						
2,4,5-TRICHLOROPHENOL						
2,4,6-TRICHLOROPHENOL						
TETRACHLOROPHENOLS, TOTAL						

< = less than detection limit

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name (Bldg. Number) Location ID	GOVERNMENT HILL STORM 687-NO-406					
Sample ID	GN880165	GN890037	GN890043	GN890043	GN890063	GN890069
Sample Date	880923	890628	890705	890705	890821	890821
Lab Sample ID	062603	039943	020301	020401	047642	020302
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ACENAPHTHALENE						
ACENAPHTHENE						
ANILINE (PHENYLAMINE, AMINOBENZENE)						
ANTHRACENE						
BENZYL BUTYL PHTHALATE						
bis(2-CHLOROETHOXY) METHANE						
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)						
bis(2-CHLOROISOPROPYL) ETHER						
bis(2-ETHYLHEXYL) PHTHALATE						
4-BROMOPHENYL PHENYL ETHER						
BENZO(a)ANTHRACENE						
BENZOIC ACID						
BENZO(a)PYRENE						
BENZO(b)FLUORANTHENE						
BENZIDINE						
BENZO(g,h,i)PERYLENE						
BENZO(k)FLUORANTHENE						
BENZYL ALCOHOL						
4-CHLORO-3-METHYLPHENOL						
CHRYSENE						
4-CHLOROANILINE						
2-CHLOROPHENOL						
2-CHLORONAPHTHALENE						
4-CHLOROPHENYL PHENYL ETHER						
DIBENZ(a,h)ANTHRACENE						
DIBENZOFURAN						
3,3'-DICHLOROBENZIDINE						

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name (Bldg. Number) Location ID	GOVERNMENT HILL STORM 687-NO-406					
Sample ID	GN880165	GN890037	GN890043	GN890043	GN890063	GN890069
Sample Date	880923	890628	890705	890705	890821	890821
Lab Sample ID	062603	039943	020301	020401	047642	020302
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,2-DICHLOROBENZENE			< .5	< 1		< 1
1,3-DICHLOROBENZENE			< .5	< .5		< .5
1,4-DICHLOROBENZENE			< .5	< .7		< .7
DICHLOROBENZENES						
2,4-DICHLOROPHENOL						
DIETHYL PHTHALATE						
2,4-DIMETHYLPHENOL						
DIMETHYL PHTHALATE						
4,6-DINITRO-2-METHYLPHENOL						
DI-n-BUTYL PHTHALATE						
DI-n-OCTYL PHTHALATE (bis-(2-ETHYLHEXYL)PHTHALATE)						
2,4-DINITROPHENOL						
2,4-DINITROTOLUENE						
2,6-DINITROTOLUENE						
1,2-DIPHENYLHYDRAZINE						
FLUORENE						
FLUORANTHENE						
HEXACHLOROBUTADIENE						
HEXACHLOROCYCLOPENTADIENE						
HEXACHLOROBENZENE						
HEXACHLOROETHANE						
INDENO(1,2,3-c,d)PYRENE						
ISOPHORONE						
2-METHYLPHENOL (o-CRESOL)						
4-METHYLPHENOL (p-CRESOL)						
2-METHYLNAPHTHALENE						
NAPHTHALENE						

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	GOVERNMENT					
(Bldg. Number)	HILL STORM					
Location ID	687-NO-406					
Sample ID	GN880165	GN890037	GN890043	GN890043	GN890063	GN890069
Sample Date	880923	890628	890705	890705	890821	890821
Lab Sample ID	062603	039943	020301	020401	047642	020302
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
N-NITROSODIMETHYLAMINE						
N-NITROSODIPHENYLAMINE						
N-NITROSODI-n-PROPYLAMINE						
2-NITROANILINE						
3-NITROANILINE						
4-NITROANILINE						
NITROBENZENE						
2-NITROPHENOL						
4-NITROPHENOL						
PENTACHLOROPHENOL						
PHENANTHRENE						
PHENOL	< 10	< 10			< 10	
PYRENE						
SURFACTANTS						
1,2,4-TRICHLOROBENZENE						
2,4,5-TRICHLOROPHENOL						
2,4,6-TRICHLOROPHENOL						
TETRACHLOROPHENOLS, TOTAL						

< = less than detection limit

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name (Bldg. Number) Location ID Sample ID Sample Date Lab Sample ID Units	GOVERNMENT HILL STORM 687-NO-406 GN890069 890821 020401 µg/l	GN890080 891030 021401 µg/l	GN900101 900417 021302 µg/l	GN900103 900417 26452 µg/l	GN900104 900417 26457 µg/l	GN900166 900625 021401 µg/l
ACENAPHTHALENE					< 10	
ACENAPHTHENE					< 10	
ANILINE (PHENYLAMINE, AMINOBENZENE)					< 10	
ANTHRACENE					< 10	
BENZYL BUTYL PHTHALATE					< 10	
bis(2-CHLOROETHOXY) METHANE					< 10	
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)					< 10	
bis(2-CHLOROISOPROPYL) ETHER					< 10	
bis(2-ETHYLHEXYL) PHTHALATE					< 10	
4-BROMOPHENYL PHENYL ETHER					< 10	
BENZO(a)ANTHRACENE					< 10	
BENZOIC ACID					< 10	
BENZO(a)PYRENE					< 10	
BENZO(b)FLUORANTHENE					< 10	
BENZIDINE						
BENZO(g,h,i)PERYLENE					< 10	
BENZO(k)FLUORANTHENE					< 10	
BENZYL ALCOHOL					< 10	
4-CHLORO-3-METHYLPHENOL					< 10	
CHRYSENE					< 10	
4-CHLOROANILINE					< 10	
2-CHLOROPHENOL					< 10	
2-CHLORONAPHTHALENE					< 10	
4-CHLOROPHENYL PHENYL ETHER					< 10	
DIBENZ(a,h)ANTHRACENE					< 10	
DIBENZOFURAN					< 10	
3,3'-DICHLOROBENZIDINE					< 10	

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	GOVERNMENT					
(Bldg. Number)	HILL STORM					
Location ID	687-NO-406					
Sample ID	GN890069	GN890080	GN900101	GN900103	GN900104	GN900166
Sample Date	890821	891030	900417	900417	900417	900625
Lab Sample ID	020401	021401	021302	26452	26457	021401
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,2-DICHLOROBENZENE	< 1			< 4	< 10	
1,3-DICHLOROBENZENE	< .5			< 4	< 10	
1,4-DICHLOROBENZENE	< .7			< 4	< 10	
DICHLOROBENZENES						
2,4-DICHLOROPHENOL					< 10	
DIETHYL PHTHALATE					< 10	
2,4-DIMETHYLPHENOL					< 10	
DIMETHYL PHTHALATE					< 10	
4,6-DINITRO-2-METHYLPHENOL					< 10	
DI-n-BUTYL PHTHALATE					< 10	
DI-n-OCTYL PHTHALATE (bis-(2-ETHYLHEXYL)PHTHALATE)					< 10	
2,4-DINITROPHENOL					< 10	
2,4-DINITROTOLUENE					< 10	
2,6-DINITROTOLUENE					< 10	
1,2-DIPHENYLHYDRAZINE						
FLUORENE					< .01	
FLUORANTHENE					< 10	
HEXACHLOROBUTADIENE					< 10	
HEXACHLOROCYCLOPENTADIENE					< 10	
HEXACHLOROBENZENE					< 10	
HEXACHLOROETHANE					< 10	
INDENO(1,2,3-c,d)PYRENE					< 10	
ISOPHORONE					< 10	
2-METHYLPHENOL (o-CRESOL)					< 10	
4-METHYLPHENOL (p-CRESOL)					< 10	
2-METHYLNAPHTHALENE					< 10	
NAPHTHALENE					< 10	

Semivolatiles in Surface Water
Elmendorf AFB, AK
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Site Name	GOVERNMENT					
(Bldg. Number)	HILL STORM					
Location ID	687-NO-406					
Sample ID	GN890069	GN890080	GN900101	GN900103	GN900104	GN900166
Sample Date	890821	891030	900417	900417	900417	900625
Lab Sample ID	020401	021401	021302	26452	26457	021401
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
N-NITROSODIMETHYLAMINE						
N-NITROSODIPHENYLAMINE					< 10	
N-NITROSODI-n-PROPYLAMINE					< 10	
2-NITROANILINE					< 10	
3-NITROANILINE					< 10	
4-NITROANILINE					< 10	
NITROBENZENE					< 10	
2-NITROPHENOL					< 10	
4-NITROPHENOL					< 10	
PENTACHLOROPHENOL					< 10	
PHENANTHRENE					< 10	
PHENOL		< 10	< 10		< 10	< 10
PYRENE					< 10	
SURFACTANTS						
1,2,4-TRICHLOROBENZENE					< 10	
2,4,5-TRICHLOROPHENOL					< 10	
2,4,6-TRICHLOROPHENOL					< 10	
TETRACHLOROPHENOLS, TOTAL					< 10	

< = less than detection limit

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name (Bldg. Number)	GOVERNMENT HILL STORM					
Location ID	687-NO-406					
Sample ID	GN900169	GN900290	GN900292	GN912071	GN912074	GN912075
Sample Date	900625	901007	901107	910423	910423	910423
Lab Sample ID	9011126-RE	021401	90111204-3	021302	91020026	20037
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ACENAPHTHALENE	< 10		< 10			< 10
ACENAPHTHENE	< 10		< 10			< 10
ANILINE (PHENYLAMINE, AMINOBENZENE)						
ANTHRACENE	< 10		< 10			< 10
BENZYL BUTYL PHTHALATE	< 10		< 10			< 10
bis(2-CHLOROETHOXY) METHANE	< 10		< 10			< 10
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	< 10		< 10			< 10
bis(2-CHLOROISOPROPYL) ETHER	< 10		< 10			< 10
bis(2-ETHYLHEXYL) PHTHALATE	< 10		16			< 10
4-BROMOPHENYL PHENYL ETHER	< 10		< 10			< 10
BENZO(a)ANTHRACENE	< 10		< 10			< 10
BENZOIC ACID	< 50		< 50			
BENZO(a)PYRENE	< 10		< 10			< 10
BENZO(b)FLUORANTHENE	< 10		< 10			< 10
BENZIDINE	< 50		< 50			< 50
BENZO(g,h,i)PERYLENE	< 10		< 10			< 10
BENZO(k)FLUORANTHENE	< 10		< 10			< 10
BENZYL ALCOHOL	< 10		< 10			
4-CHLORO-3-METHYLPHENOL	< 10		< 10			< 10
CHRYSENE	< 10		< 10			< 10
4-CHLOROANILINE	< 10		< 10			
2-CHLOROPHENOL	< 10		< 10			< 10
2-CHLORONAPHTHALENE	< 10		< 10			< 10
4-CHLOROPHENYL PHENYL ETHER	< 10		< 10			< 10
DIBENZ(a,h)ANTHRACENE	< 10		< 10			< 10
DIBENZOFURAN	< 10		< 10			
3,3'-DICHLOROBENZIDINE	< 20		< 20			< 20

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	GOVERNMENT					
(Bldg. Number)	HILL STORM					
Location ID	687-NO-406					
Sample ID	GN900169	GN900290	GN900292	GN912071	GN912074	GN912075
Sample Date	900625	901007	901107	910423	910423	910423
Lab Sample ID	9011126-RE	021401	90111204-3	021302	91020026	20037
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,2-DICHLOROBENZENE	< 10		< 10		< 5	< 10
1,3-DICHLOROBENZENE	< 10		< 10		< 5	< 10
1,4-DICHLOROBENZENE	< 10		< 10		< 5	< 10
DICHLOROBENZENES						
2,4-DICHLOROPHENOL	< 10		< 10			< 50
DIETHYL PHTHALATE	< 10		< 10			< 10
2,4-DIMETHYLPHENOL	< 10		< 10			< 10
DIMETHYL PHTHALATE	< 10		< 10			< 10
4,6-DINITRO-2-METHYLPHENOL	< 50		< 50			< 50
DI-n-BUTYL PHTHALATE	< 10		< 10			< 10
DI-n-OCTYL PHTHALATE (bis-(2-ETHYLHEXYL)PHTHALATE)	< 10		< 10			< 10
2,4-DINITROPHENOL	< 50		< 50			< 10
2,4-DINITROTOLUENE	< 10		< 10			< 10
2,6-DINITROTOLUENE	< 10		< 10			< 10
1,2-DIPHENYLHYDRAZINE	< 10		< 10			
FLUORENE	< 10		< 10			< 10
FLUORANTHENE	< 10		< 10			< 10
HEXACHLOROBUTADIENE	< 10		< 10			< 10
HEXACHLOROCYCLOPENTADIENE	< 10		< 10			< 10
HEXACHLOROBENZENE	< 10		< 10			< 10
HEXACHLOROETHANE	< 10		< 10			< 10
INDENO(1,2,3-c,d)PYRENE	< 10		< 10			< 10
ISOPHORONE	< 10		< 10			< 10
2-METHYLPHENOL (o-CRESOL)	< 10		< 10			
4-METHYLPHENOL (p-CRESOL)	< 10		< 10			
2-METHYLNAPHTHALENE	< 10		< 10			
NAPHTHALENE	< 10		< 10			< 10

Semivolatiles in Surface Water
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Site Name (Bldg. Number) Location ID	GOVERNMENT HILL STORM 687-NO-406					
Sample ID	GN900169	GN900290	GN900292	GN912071	GN912074	GN912075
Sample Date	900625	901007	901107	910423	910423	910423
Lab Sample ID	9011126-RE	021401	90111204-3	021302	91020026	20037
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
N-NITROSODIMETHYLAMINE	< 10		< 10			< 10
N-NITROSODIPHENYLAMINE	< 10		< 10			< 10
N-NITROSODI-n-PROPYLAMINE	< 10		< 10			< 10
2-NITROANILINE	< 50		< 50			
3-NITROANILINE	< 50		< 50			
4-NITROANILINE	< 50		< 50			
NITROBENZENE	< 10		< 10			< 10
2-NITROPHENOL	< 10		< 10			< 10
4-NITROPHENOL	< 50		< 50			< 50
PENTACHLOROPHENOL	< 50		< 50			< 50
PHENANTHRENE	< 10		< 10			< 10
PHENOL	< 10	< 10	< 10	< 10		< 10
PYRENE	< 10		< 10			< 10
SURFACTANTS						
1,2,4-TRICHLOROBENZENE	< 10		< 10			< 10
2,4,5-TRICHLOROPHENOL	< 50		< 50			
2,4,6-TRICHLOROPHENOL	< 10		< 10			< 10
TETRACHLOROPHENOLS, TOTAL						

< = less than detection limit

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name (Bldg. Number) Location ID	GOVERNMENT HILL STORM 687-NO-406					
Sample ID	GN912239	GN912242	GN912243	GN912347	GN912350	GN912351
Sample Date	910724	910724	910724	911023	911023	911023
Lab Sample ID	021302	020201	91092911-1	021302	020201	055645
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ACENAPHTHALENE			< 10			< 10
ACENAPHTHENE			< 10			< 10
ANILINE (PHENYLAMINE, AMINOBENZENE)						
ANTHRACENE			< 10			< 10
BENZYL BUTYL PHTHALATE			< 10			< 10
bis(2-CHLOROETHOXY) METHANE			< 10			< 10
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)			< 10			< 10
bis(2-CHLOROISOPROPYL) ETHER			< 10			< 10
bis(2-ETHYLHEXYL) PHTHALATE			< 10			< 10
4-BROMOPHENYL PHENYL ETHER			< 10			< 10
BENZO(a)ANTHRACENE			< 10			< 10
BENZOIC ACID			< 50			
BENZO(a)PYRENE			< 10			< 10
BENZO(b)FLUORANTHENE			< 10			< 10
BENZIDINE			< 50			< 60
BENZO(g,h,i)PERYLENE			< 10			< 10
BENZO(k)FLUORANTHENE			< 10			< 10
BENZYL ALCOHOL			< 10			
4-CHLORO-3-METHYLPHENOL			< 10			< 10
CHRYSENE			< 10			< 10
4-CHLOROANILINE			< 10			
2-CHLOROPHENOL			< 10			< 10
2-CHLORONAPHTHALENE			< 10			< 10
4-CHLOROPHENYL PHENYL ETHER			< 10			< 10
DIBENZ(a,h)ANTHRACENE			< 10			< 10
DIBENZOFURAN			< 10			
3,3'-DICHLOROBENZIDINE			< 20			< 20

Semivolatiles in Surface Water
Elmendorf AFB, AK
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Site Name	GOVERNMENT					
(Bldg. Number)	HILL STORM					
Location ID	687-NO-406					
Sample ID	GN912239	GN912242	GN912243	GN912347	GN912350	GN912351
Sample Date	910724	910724	910724	911023	911023	911023
Lab Sample ID	021302	020201	91092911-1	021302	020201	055645
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,2-DICHLOROBENZENE		< 1.82	< 10		< 1.8	< 10
1,3-DICHLOROBENZENE		< 2.07	< 10		< 2	< 10
1,4-DICHLOROBENZENE		< 1.9	< 10		< 1.9	< 10
DICHLOROBENZENES						
2,4-DICHLOROPHENOL			< 10			< 10
DIETHYL PHTHALATE			< 10			< 10
2,4-DIMETHYLPHENOL			< 10			< 10
DIMETHYL PHTHALATE			< 10			< 10
4,6-DINITRO-2-METHYLPHENOL			< 50			< 50
DI-n-BUTYL PHTHALATE			< 10			< 10
DI-n-OCTYL PHTHALATE (bis-(2-ETHYLHEXYL)PHTHALATE)			< 10			< 10
2,4-DINITROPHENOL			< 50			< 50
2,4-DINITROTOLUENE			< 10			< 10
2,6-DINITROTOLUENE			< 10			< 10
1,2-DIPHENYLHYDRAZINE			< 10			
FLUORENE			< 10			< 10
FLUORANTHENE			< 10			< 10
HEXACHLOROBUTADIENE			< 10			< 10
HEXACHLOROCYCLOPENTADIENE			< 10			< 10
HEXACHLOROBENZENE			< 10			< 10
HEXACHLOROETHANE			< 10			< 10
INDENO(1,2,3-c,d)PYRENE			< 10			< 10
ISOPHORONE			< 10			< 10
2-METHYLPHENOL (o-CRESOL)			< 10			
4-METHYLPHENOL (p-CRESOL)			< 10			
2-METHYLNAPHTHALENE			< 10			
NAPHTHALENE			< 10			< 10

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	GOVERNMENT					
(Bldg. Number)	HILL STORM					
Location ID	687-NO-406					
Sample ID	GN912239	GN912242	GN912243	GN912347	GN912350	GN912351
Sample Date	910724	910724	910724	911023	911023	911023
Lab Sample ID	021302	020201	91092911-1	021302	020201	055645
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
N-NITROSODIMETHYLAMINE			< 10			< 10
N-NITROSODIPHENYLAMINE			< 10			< 10
N-NITROSODI-n-PROPYLAMINE			< 10			< 10
2-NITROANILINE			< 50			
3-NITROANILINE			< 50			
4-NITROANILINE			< 50			
NITROBENZENE			< 10			< 10
2-NITROPHENOL			< 10			< 10
4-NITROPHENOL			< 50			< 50
PENTACHLOROPHENOL			< 50			< 50
PHENANTHRENE			< 10			< 10
PHENOL	< 10		< 10	< 10		< 10
PYRENE			< 10			< 10
SURFACTANTS						
1,2,4-TRICHLOROBENZENE			< 10			< 10
2,4,5-TRICHLOROPHENOL			< 50			
2,4,6-TRICHLOROPHENOL			< 10			< 10
TETRACHLOROPHENOLS, TOTAL						

< = less than detection limit

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name (Bldg. Number)	POST ROAD GATE RUNOFF						
Location ID	687-NO-407						
Sample ID	GN900105	GN900107	GN900108	GN900158	GN900161	GN900293	GN900295
Sample Date	900417	900401	900401	900625	900625	901007	901107
Lab Sample ID	021302	26453	26458	021302	9011124	90068777	90111204-4
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ACENAPHTHALENE			< 10		< 10		< 10
ACENAPHTHENE			< 10		< 10		< 10
ANILINE (PHENYLAMINE, AMINOBENZENE)			< 10				
ANTHRACENE			< 10		< 10		< 10
BENZYL BUTYL PHTHALATE			< 10		< 10		< 10
bis(2-CHLOROETHOXY) METHANE			< 10		< 10		< 10
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)			< 10		< 10		< 10
bis(2-CHLOROISOPROPYL) ETHER			< 10		< 10		< 10
bis(2-ETHYLHEXYL) PHTHALATE			< 10		< 10		< 10
4-BROMOPHENYL PHENYL ETHER			< 10		< 10		< 10
BENZO(a)ANTHRACENE			< 10		< 10		< 10
BENZOIC ACID			< 10		< 50		< 50
BENZO(a)PYRENE			< 10		< 10		< 10
BENZO(b)FLUORANTHENE			< 10		< 10		< 10
BENZIDINE					< 50		< 50
BENZO(g,h,i)PERYLENE			< 10		< 10		< 10
BENZO(k)FLUORANTHENE			< 10		< 10		< 10
BENZYL ALCOHOL			< 10		< 10		< 10
4-CHLORO-3-METHYLPHENOL			< 10		< 10		< 10
CHRYSENE			< 10		< 10		< 10
4-CHLOROANILINE			< 10		< 10		< 10
2-CHLOROPHENOL			< 10		< 10		< 10
2-CHLORONAPHTHALENE			< 10		< 10		< 10
4-CHLOROPHENYL PHENYL ETHER			< 10		< 10		< 10
DIBENZ(a,h)ANTHRACENE			< 10		< 10		< 10
DIBENZOFURAN			< 10		< 10		< 10
3,3'-DICHLOROBENZIDINE			< 10		< 20		< 20

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name (Bldg. Number)	POST ROAD GATE RUNOFF						
Location ID	687-NO-407						
Sample ID	GN900105	GN900107	GN900108	GN900158	GN900161	GN900293	GN900295
Sample Date	900417	900401	900401	900625	900625	901007	901107
Lab Sample ID	021302	26453	26458	021302	9011124	90068777	90111204-4
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,2-DICHLOROBENZENE		< 4	< 10		< 10		< 10
1,3-DICHLOROBENZENE		< 4	< 10		< 10		< 10
1,4-DICHLOROBENZENE		< 4	< 10		< 10		< 10
DICHLOROBENZENES							
2,4-DICHLOROPHENOL			< 10		< 10		< 10
DIETHYL PHTHALATE			< 10		< 10		< 10
2,4-DIMETHYLPHENOL			< 10		< 10		< 10
DIMETHYL PHTHALATE			< 10		< 10		< 10
4,6-DINITRO-2-METHYLPHENOL			< 10		< 50		< 50
DI-n-BUTYL PHTHALATE			< 10		< 10		< 10
DI-n-OCTYL PHTHALATE (bis-(2-ETHYLHEXYL)PHTHALATE)			< 10		< 10		< 10
2,4-DINITROPHENOL			< 10		< 50		< 50
2,4-DINITROTOLUENE			< 10		< 10		< 10
2,6-DINITROTOLUENE			< 10		< 10		< 10
1,2-DIPHENYLHYDRAZINE					< 10		< 10
FLUORENE			< .01		< 10		< 10
FLUORANTHENE			< 10		< 10		< 10
HEXACHLOROBUTADIENE			< 10		< 10		< 10
HEXACHLOROCYCLOPENTADIENE			< 10		< 10		< 10
HEXACHLOROBENZENE			< 10		< 10		< 10
HEXACHLOROETHANE			< 10		< 10		< 10
INDENO(1,2,3-c,d)PYRENE			< 10		< 10		< 10
ISOPHORONE			< 10		< 10		< 10
2-METHYLPHENOL (o-CRESOL)			< 10		< 10		< 10
4-METHYLPHENOL (p-CRESOL)			< 10		< 10		< 10
2-METHYLNAPHTHALENE			< 10		< 10		< 10
NAPHTHALENE			< 10		< 10		< 10

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	POST ROAD						
(Bldg. Number)	GATE RUNOFF						
Location ID	687-NO-407						
Sample ID	GN900105	GN900107	GN900108	GN900158	GN900161	GN900293	GN900295
Sample Date	900417	900401	900401	900625	900625	901007	901107
Lab Sample ID	021302	26453	26458	021302	9011124	90068777	90111204-4
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
N-NITROSODIMETHYLAMINE					< 10		< 10
N-NITROSODIPHENYLAMINE			< 10		< 10		< 10
N-NITROSODI-n-PROPYLAMINE			< 10		< 10		< 10
2-NITROANILINE			< 10		< 50		< 50
3-NITROANILINE			< 10		< 50		< 50
4-NITROANILINE			< 10		< 50		< 50
NITROBENZENE			< 10		< 10		< 10
2-NITROPHENOL			< 10		< 10		< 10
4-NITROPHENOL			< 10		< 50		< 50
PENTACHLOROPHENOL			< 10		< 50		< 50
PHENANTHRENE			< 10		< 10		< 10
PHENOL	< 10		< 10	< 10	< 10	< 10	< 10
PYRENE			< 10		< 10		< 10
SURFACTANTS							
1,2,4-TRICHLOROBENZENE			< 10		< 10		< 10
2,4,5-TRICHLOROPHENOL			< 10		< 50		< 50
2,4,6-TRICHLOROPHENOL			< 10		< 10		< 10
TETRACHLOROPHENOLS, TOTAL			< 10				

< = less than detection limit

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name (Bldg. Number)	POST ROAD GATE						
Location ID	687-NO-407						
Sample ID	GN912098	GN912102	GN912223	GN912226	GN912322	GN880027	GS880030
Sample Date	910501	910501	910722	910722	911021	880405	880405
Lab Sample ID	021302	021701	021302	020201	021302	022271	022274
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ACENAPHTHALENE		< 3.5					
ACENAPHTHENE		< 1.9					
ANILINE (PHENYLAMINE, AMINOBENZENE)							
ANTHRACENE		< 1.9					
BENZYL BUTYL PHTHALATE		< 2.5					
bis(2-CHLOROETHOXY) METHANE		< 5.3					
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)		< 5.7					
bis(2-CHLOROISOPROPYL) ETHER		< 5.7					
bis(2-ETHYLHEXYL) PHTHALATE							
4-BROMOPHENYL PHENYL ETHER		< 1.9					
BENZO(a)ANTHRACENE		< 7.8					
BENZOIC ACID							
BENZO(a)PYRENE		< 2.5					
BENZO(b)FLUORANTHENE		< 4.8					
BENZIDINE		< 44					
BENZO(g,h,i)PERYLENE		< 4.1					
BENZO(k)FLUORANTHENE		< 2.5					
BENZYL ALCOHOL							
4-CHLORO-3-METHYLPHENOL		< 3					
CHRYSENE		< 2.5					
4-CHLOROANILINE							
2-CHLOROPHENOL		< 3.3					
2-CHLORONAPHTHALENE		< 1.9					
4-CHLOROPHENYL PHENYL ETHER		< 4.2					
DIBENZ(a,h)ANTHRACENE		< 2.5					
DIBENZOFURAN							
3,3'-DICHLOROBENZIDINE		< 16.5					

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	POST ROAD						
(Bldg. Number)	GATE						
Location ID	687-NO-407						
Sample ID	GN912098	GN912102	GN912223	GN912226	GN912322	GN880027	GS880030
Sample Date	910501	910501	910722	910722	911021	880405	880405
Lab Sample ID	021302	021701	021302	020201	021302	022271	022274
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,2-DICHLOROBENZENE		< 1.9		< 1.82			
1,3-DICHLOROBENZENE		< 1.9		< 2.07			
1,4-DICHLOROBENZENE		< 4.4		< 1.9			
DICHLOROBENZENES							
2,4-DICHLOROPHENOL		< 20					
DIETHYL PHTHALATE		< 1.9					
2,4-DIMETHYLPHENOL		< 2.7					
DIMETHYL PHTHALATE		< 1.6					
4,6-DINITRO-2-METHYLPHENOL		< 10					
DI-n-BUTYL PHTHALATE		< 2.5					
DI-n-OCTYL PHTHALATE (bis-(2-ETHYLHEXYL)PHTHALATE)		< 2.5					
2,4-DINITROPHENOL		< 2.7					
2,4-DINITROTOLUENE		< 5.7					
2,6-DINITROTOLUENE		< 1.9					
1,2-DIPHENYLHYDRAZINE		< 10					
FLUORENE		< .0022					
FLUORANTHENE		< 1.9					
HEXACHLOROBUTADIENE		< .9					
HEXACHLOROCYCLOPENTADIENE		< .9					
HEXACHLOROBENZENE		< 1.9					
HEXACHLOROETHANE		< 1.6					
INDENO(1,2,3-c,d)PYRENE		< 3.7					
ISOPHORONE		< 2.2					
2-METHYLPHENOL (o-CRESOL)							
4-METHYLPHENOL (p-CRESOL)							
2-METHYLNAPHTHALENE							
NAPHTHALENE		< 1.6					

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name (Bldg. Number)	POST ROAD GATE						
Location ID	687-NO-407						
Sample ID	GN912098	GN912102	GN912223	GN912226	GN912322	GN880027	GS880030
Sample Date	910501	910501	910722	910722	911021	880405	880405
Lab Sample ID	021302	021701	021302	020201	021302	022271	022274
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
N-NITROSODIMETHYLAMINE		< 10					
N-NITROSODIPHENYLAMINE		< 1.9					
N-NITROSODI-n-PROPYLAMINE		< 10					
2-NITROANILINE							
3-NITROANILINE							
4-NITROANILINE							
NITROBENZENE		< 1.9					
2-NITROPHENOL		< 3.6					
4-NITROPHENOL		< 2.4					
PENTACHLOROPHENOL		< 3.6					
PHENANTHRENE		< 5.4					
PHENOL	< 10	< 1.5	< 10		< 10	< 10	630
PYRENE		< 1.9					
SURFACTANTS							
1,2,4-TRICHLOROBENZENE		< 1.9					
2,4,5-TRICHLOROPHENOL							
2,4,6-TRICHLOROPHENOL		< 2.7					
TETRACHLOROPHENOLS, TOTAL							

< = less than detection limit

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	SHIP CREEK						
(Bldg. Number)	I						
Location ID	687-NS-404						
Sample ID	GN870174	GN870710	GN870847	GN880024	GN880098	GN880162	GN880211
Sample Date	870330	870901	871119	880329	880614	880923	881115
Lab Sample ID	021075	068289	082680	020605	038858	061210	072511
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ACENAPHTHALENE							
ACENAPHTHENE							
ANILINE (PHENYLAMINE, AMINOBENZENE)							
ANTHRACENE							
BENZYL BUTYL PHTHALATE							
bis(2-CHLOROETHOXY) METHANE							
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)							
bis(2-CHLOROISOPROPYL) ETHER							
bis(2-ETHYLHEXYL) PHTHALATE							
4-BROMOPHENYL PHENYL ETHER							
BENZO(a)ANTHRACENE							
BENZOIC ACID							
BENZO(a)PYRENE							
BENZO(b)FLUORANTHENE							
BENZIDINE							
BENZO(g,h,i)PERYLENE							
BENZO(k)FLUORANTHENE							
BENZYL ALCOHOL							
4-CHLORO-3-METHYLPHENOL							
CHRYSENE							
4-CHLOROANILINE							
2-CHLOROPHENOL							
2-CHLORONAPHTHALENE							
4-CHLOROPHENYL PHENYL ETHER							
DIBENZ(a,h)ANTHRACENE							
DIBENZOFURAN							
3,3'-DICHLOROBENZIDINE							

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	SHIP CREEK						
(Bldg. Number)	I						
Location ID	687-NS-404						
Sample ID	GN870174	GN870710	GN870847	GN880024	GN880098	GN880162	GN880211
Sample Date	870330	870901	871119	880329	880614	880923	881115
Lab Sample ID	021075	068289	082680	020605	038858	061210	072511
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,2-DICHLOROBENZENE							
1,3-DICHLOROBENZENE							
1,4-DICHLOROBENZENE							
DICHLOROBENZENES							
2,4-DICHLOROPHENOL							
DIETHYL PHTHALATE							
2,4-DIMETHYLPHENOL							
DIMETHYL PHTHALATE							
4,6-DINITRO-2-METHYLPHENOL							
DI-n-BUTYL PHTHALATE							
DI-n-OCTYL PHTHALATE (bis-(2-ETHYLHEXYL)PHTHALATE)							
2,4-DINITROPHENOL							
2,4-DINITROTOLUENE							
2,6-DINITROTOLUENE							
1,2-DIPHENYLHYDRAZINE							
FLUORENE							
FLUORANTHENE							
HEXACHLOROBUTADIENE							
HEXACHLOROCYCLOPENTADIENE							
HEXACHLOROBENZENE							
HEXACHLOROETHANE							
INDENO(1,2,3-c,d)PYRENE							
ISOPHORONE							
2-METHYLPHENOL (o-CRESOL)							
4-METHYLPHENOL (p-CRESOL)							
2-METHYLNAPHTHALENE							
NAPHTHALENE							

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	SHIP CREEK						
(Bldg. Number)	I						
Location ID	687-NS-404						
Sample ID	GN870174	GN870710	GN870847	GN880024	GN880098	GN880162	GN880211
Sample Date	870330	870901	871119	880329	880614	880923	881115
Lab Sample ID	021075	068289	082680	020605	038858	061210	072511
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
N-NITROSODIMETHYLAMINE							
N-NITROSODIPHENYLAMINE							
N-NITROSODI-n-PROPYLAMINE							
2-NITROANILINE							
3-NITROANILINE							
4-NITROANILINE							
NITROBENZENE							
2-NITROPHENOL							
4-NITROPHENOL							
PENTACHLOROPHENOL							
PHENANTHRENE							
PHENOL	< 10	< 10	< 10	< 10	< 10	< 10	< 10
PYRENE							
SURFACTANTS							
1,2,4-TRICHLOROBENZENE							
2,4,5-TRICHLOROPHENOL							
2,4,6-TRICHLOROPHENOL							
TETRACHLOROPHENOLS, TOTAL							

< = less than detection limit

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name (Bldg. Number)	SHIP CREEK I						
Location ID	687-NS-404						
Sample ID	GN880211	GN880211	GN890019	GN890019	GN890020	GN890042	GN890042
Sample Date	881115	881115	890328	890328	890301	890705	890705
Lab Sample ID	72019	72020	018468	18440	18441	020301	020401
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ACENAPHTHALENE							
ACENAPHTHENE							
ANILINE (PHENYLAMINE, AMINOBENZENE)							
ANTHRACENE							
BENZYL BUTYL PHTHALATE							
bis(2-CHLOROETHOXY) METHANE							
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)							
bis(2-CHLOROISOPROPYL) ETHER							
bis(2-ETHYLHEXYL) PHTHALATE							
4-BROMOPHENYL PHENYL ETHER							
BENZO(a)ANTHRACENE							
BENZOIC ACID							
BENZO(a)PYRENE							
BENZO(b)FLUORANTHENE							
BENZIDINE							
BENZO(g,h,i)PERYLENE							
BENZO(k)FLUORANTHENE							
BENZYL ALCOHOL							
4-CHLORO-3-METHYLPHENOL							
CHRYSENE							
4-CHLOROANILINE							
2-CHLOROPHENOL							
2-CHLORONAPHTHALENE							
4-CHLOROPHENYL PHENYL ETHER							
DIBENZ(a,h)ANTHRACENE							
DIBENZOFURAN							
3,3'-DICHLOROBENZIDINE							

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	SHIP						
(Bldg. Number)	CREEK I						
Location ID	687-NS-404						
Sample ID	GN880211	GN880211	GN890019	GN890019	GN890020	GN890042	GN890042
Sample Date	881115	881115	890328	890328	890301	890705	890705
Lab Sample ID	72019	72020	018468	18440	18441	020301	020401
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,2-DICHLOROBENZENE	< .1	< 2		< .1	< .1	< .5	< 1
1,3-DICHLOROBENZENE	< .1	< 2		< .1	< .1	< .5	< .5
1,4-DICHLOROBENZENE	< .1	< 2		< .1	< .1	< .5	< .7
DICHLOROBENZENES							
2,4-DICHLOROPHENOL							
DIETHYL PHTHALATE							
2,4-DIMETHYLPHENOL							
DIMETHYL PHTHALATE							
4,6-DINITRO-2-METHYLPHENOL							
DI-n-BUTYL PHTHALATE							
DI-n-OCTYL PHTHALATE (bis-(2-ETHYLHEXYL)PHTHALATE)							
2,4-DINITROPHENOL							
2,4-DINITROTOLUENE							
2,6-DINITROTOLUENE							
1,2-DIPHENYLHYDRAZINE							
FLUORENE							
FLUORANTHENE							
HEXACHLOROBUTADIENE							
HEXACHLOROCYCLOPENTADIENE							
HEXACHLOROBENZENE							
HEXACHLOROETHANE							
INDENO(1,2,3-c,d)PYRENE							
ISOPHORONE							
2-METHYLPHENOL (o-CRESOL)							
4-METHYLPHENOL (p-CRESOL)							
2-METHYLNAPHTHALENE							
NAPHTHALENE							

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	SHIP						
(Bldg. Number)	CREEK I						
Location ID	687-NS-404						
Sample ID	GN880211	GN880211	GN890019	GN890019	GN890020	GN890042	GN890042
Sample Date	881115	881115	890328	890328	890301	890705	890705
Lab Sample ID	72019	72020	018468	18440	18441	020301	020401
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
N-NITROSODIMETHYLAMINE							
N-NITROSODIPHENYLAMINE							
N-NITROSODI-n-PROPYLAMINE							
2-NITROANILINE							
3-NITROANILINE							
4-NITROANILINE							
NITROBENZENE							
2-NITROPHENOL							
4-NITROPHENOL							
PENTACHLOROPHENOL							
PHENANTHRENE							
PHENOL			< 10				
PYRENE							
SURFACTANTS							
1,2,4-TRICHLOROBENZENE							
2,4,5-TRICHLOROPHENOL							
2,4,6-TRICHLOROPHENOL							
TETRACHLOROPHENOLS, TOTAL							

< = less than detection limit

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	SHIP CREEK					
(Bldg. Number)	I					
Location ID	687-NS-404					
Sample ID	GN890061	GN890067	GN890067	GN89019	GN89020	GN900150
Sample Date	890821	890821	890821	890328	890301	900625
Lab Sample ID	047632	020302	020401	18444	18445	021302
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ACENAPHTHALENE						
ACENAPHTHENE						
ANILINE (PHENYLAMINE, AMINOBENZENE)						
ANTHRACENE						
BENZYL BUTYL PHTHALATE						
bis(2-CHLOROETHOXY) METHANE						
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)						
bis(2-CHLOROISOPROPYL) ETHER						
bis(2-ETHYLHEXYL) PHTHALATE						
4-BROMOPHENYL PHENYL ETHER						
BENZO(a)ANTHRACENE						
BENZOIC ACID						
BENZO(a)PYRENE						
BENZO(b)FLUORANTHENE						
BENZIDINE						
BENZO(g,h,i)PERYLENE						
BENZO(k)FLUORANTHENE						
BENZYL ALCOHOL						
4-CHLORO-3-METHYLPHENOL						
CHRYSENE						
4-CHLOROANILINE						
2-CHLOROPHENOL						
2-CHLORONAPHTHALENE						
4-CHLOROPHENYL PHENYL ETHER						
DIBENZ(a,h)ANTHRACENE						
DIBENZOFURAN						
3,3'-DICHLOROBENZIDINE						

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	SHIP CREEK					
(Bldg. Number)	I					
Location ID	687-NS-404					
Sample ID	GN890061	GN890067	GN890067	GN89019	GN89020	GN900150
Sample Date	890821	890821	890821	890328	890301	900625
Lab Sample ID	047632	020302	020401	18444	18445	021302
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,2-DICHLOROBENZENE		< 1	< 1	< 2	< 2	
1,3-DICHLOROBENZENE		< .5	< .5	< 2	< 2	
1,4-DICHLOROBENZENE		< .7	< .7	< 2	< 2	
DICHLOROBENZENES						
2,4-DICHLOROPHENOL						
DIETHYL PHTHALATE						
2,4-DIMETHYLPHENOL						
DIMETHYL PHTHALATE						
4,6-DINITRO-2-METHYLPHENOL						
DI-n-BUTYL PHTHALATE						
DI-n-OCTYL PHTHALATE (bis-(2-ETHYLHEXYL)PHTHALATE)						
2,4-DINITROPHENOL						
2,4-DINITROTOLUENE						
2,6-DINITROTOLUENE						
1,2-DIPHENYLHYDRAZINE						
FLUORENE						
FLUORANTHENE						
HEXACHLOROBUTADIENE						
HEXACHLOROCYCLOPENTADIENE						
HEXACHLOROBENZENE						
HEXACHLOROETHANE						
INDENO(1,2,3-c,d)PYRENE						
ISOPHORONE						
2-METHYLPHENOL (o-CRESOL)						
4-METHYLPHENOL (p-CRESOL)						
2-METHYLNAPHTHALENE						
NAPHTHALENE						

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name (Bldg. Number) Location ID Sample ID Sample Date Lab Sample ID Units	SHIP CREEK I 687-NS-404 GN890061 890821 047632 µg/l	GN890067 890821 020302 µg/l	GN890067 890821 020401 µg/l	GN89019 890328 18444 µg/l	GN89020 890301 18445 µg/l	GN900150 900625 021302 µg/l
N-NITROSODIMETHYLAMINE						
N-NITROSODIPHENYLAMINE						
N-NITROSODI-n-PROPYLAMINE						
2-NITROANILINE						
3-NITROANILINE						
4-NITROANILINE						
NITROBENZENE						
2-NITROPHENOL						
4-NITROPHENOL						
PENTACHLOROPHENOL						
PHENANTHRENE						
PHENOL	< 10					< 10
PYRENE						
SURFACTANTS						
1,2,4-TRICHLOROBENZENE						
2,4,5-TRICHLOROPHENOL						
2,4,6-TRICHLOROPHENOL						
TETRACHLOROPHENOLS, TOTAL						

< = less than detection limit

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	SHIP CREEK						
(Bldg. Number)	I						
Location ID	687-NS-404						
Sample ID	GN900153	GN900284	GN90286	GN912228	GN912231	GN912337	GN912340
Sample Date	900625	901007	901107	910722	910722	911022	911022
Lab Sample ID	9011122-RE	021401	90111204-1	021302	020201	021302	020201
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ACENAPHTHALENE	< 10		< 10				
ACENAPHTHENE	< 10		< 10				
ANILINE (PHENYLAMINE, AMINOBENZENE)							
ANTHRACENE	< 10		< 10				
BENZYL BUTYL PHTHALATE	< 10		< 10				
bis(2-CHLOROETHOXY) METHANE	< 10		< 10				
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	< 10		< 10				
bis(2-CHLOROISOPROPYL) ETHER	< 10		< 10				
bis(2-ETHYLHEXYL) PHTHALATE	< 10		47				
4-BROMOPHENYL PHENYL ETHER	< 10		< 10				
BENZO(a)ANTHRACENE	< 10		< 10				
BENZOIC ACID	< 50		< 50				
BENZO(a)PYRENE	< 10		< 10				
BENZO(b)FLUORANTHENE	< 10		< 10				
BENZIDINE	< 50		< 50				
BENZO(g,h,i)PERYLENE	< 10		< 10				
BENZO(k)FLUORANTHENE	< 10		< 10				
BENZYL ALCOHOL	< 10		< 10				
4-CHLORO-3-METHYLPHENOL	< 10		< 10				
CHRYSENE	< 10		< 10				
4-CHLOROANILINE	< 10		< 10				
2-CHLOROPHENOL	< 10		< 10				
2-CHLORONAPHTHALENE	< 10		< 10				
4-CHLOROPHENYL PHENYL ETHER	< 10		< 10				
DIBENZ(a,h)ANTHRACENE	< 10		< 10				
DIBENZOFURAN	< 10		< 10				
3,3'-DICHLOROBENZIDINE	< 20		< 20				

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	SHIP CREEK						
(Bldg. Number)	I						
Location ID	687-NS-404						
Sample ID	GN900153	GN900284	GN90286	GN912228	GN912231	GN912337	GN912340
Sample Date	900625	901007	901107	910722	910722	911022	911022
Lab Sample ID	9011122-RE	021401	90111204-1	021302	020201	021302	020201
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,2-DICHLOROBENZENE	< 10		< 10		< 1.82		< 1.8
1,3-DICHLOROBENZENE	< 10		< 10		< 2.07		< 2
1,4-DICHLOROBENZENE	< 10		< 10		< 1.9		< 1.9
DICHLOROBENZENES							
2,4-DICHLOROPHENOL	< 10		< 10				
DIETHYL PHTHALATE	< 10		< 10				
2,4-DIMETHYLPHENOL	< 10		< 10				
DIMETHYL PHTHALATE	< 10		< 10				
4,6-DINITRO-2-METHYLPHENOL	< 50		< 50				
DI-n-BUTYL PHTHALATE	< 10		< 10				
DI-n-OCTYL PHTHALATE (bis-(2-ETHYLHEXYL)PHTHALATE)	< 10		< 10				
2,4-DINITROPHENOL	< 50		< 50				
2,4-DINITROTOLUENE	< 10		< 10				
2,6-DINITROTOLUENE	< 10		< 10				
1,2-DIPHENYLHYDRAZINE	< 10		< 10				
FLUORENE	< 10		< 10				
FLUORANTHENE	< 10		< 10				
HEXACHLOROBUTADIENE	< 10		< 10				
HEXACHLOROCYCLOPENTADIENE	< 10		< 10				
HEXACHLOROBENZENE	< 10		< 10				
HEXACHLOROETHANE	< 10		< 10				
INDENO(1,2,3-c,d)PYRENE	< 10		< 10				
ISOPHORONE	< 10		< 10				
2-METHYLPHENOL (o-CRESOL)	< 10		< 10				
4-METHYLPHENOL (p-CRESOL)	< 10		< 10				
2-METHYLNAPHTHALENE	< 10		< 10				
NAPHTHALENE	< 10		< 10				

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	SHIP CREEK						
(Bldg. Number)	I						
Location ID	687-NS-404						
Sample ID	GN900153	GN900284	GN90286	GN912228	GN912231	GN912337	GN912340
Sample Date	900625	901007	901107	910722	910722	911022	911022
Lab Sample ID	9011122-RE	021401	90111204-1	021302	020201	021302	020201
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
N-NITROSODIMETHYLAMINE	< 10		< 10				
N-NITROSODIPHENYLAMINE	< 10		< 10				
N-NITROSODI-n-PROPYLAMINE	< 10		< 10				
2-NITROANILINE	< 50		< 50				
3-NITROANILINE	< 50		< 50				
4-NITROANILINE	< 50		< 50				
NITROBENZENE	< 10		< 10				
2-NITROPHENOL	< 10		< 10				
4-NITROPHENOL	< 50		< 50				
PENTACHLOROPHENOL	< 50		< 50				
PHENANTHRENE	< 10		< 10				
PHENOL	< 10	< 10	< 10	< 10		< 10	
PYRENE	< 10		< 10				
SURFACTANTS							
1,2,4-TRICHLOROBENZENE	< 10		< 10				
2,4,5-TRICHLOROPHENOL	< 50		< 50				
2,4,6-TRICHLOROPHENOL	< 10		< 10				
TETRACHLOROPHENOLS, TOTAL							

< = less than detection limit

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name (Bldg. Number)	SHIP CREEK I	SHIP CREEK II					
Location ID	687-NS-404	687-NS-405					
Sample ID	GN912341	GN870179	GN870709	GN870848	GN880018	GN880099	GN880159
Sample Date	911001	870301	871001	871201	880301	880601	880901
Lab Sample ID	055577	021105	068288	082686	018886	038866	060152
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ACENAPHTHALENE	< 10						
ACENAPHTHENE	< 10						
ANILINE (PHENYLAMINE, AMINOBENZENE)							
ANTHRACENE	< 10						
BENZYL BUTYL PHTHALATE	< 10						
bis(2-CHLOROETHOXY) METHANE	< 10						
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	< 10						
bis(2-CHLOROISOPROPYL) ETHER	< 10						
bis(2-ETHYLHEXYL) PHTHALATE	< 10						
4-BROMOPHENYL PHENYL ETHER	< 10						
BENZO(a)ANTHRACENE	< 10						
BENZOIC ACID							
BENZO(a)PYRENE	< 10						
BENZO(b)FLUORANTHENE	< 10						
BENZIDINE	< 50						
BENZO(g,h,i)PERYLENE	< 10						
BENZO(k)FLUORANTHENE	< 10						
BENZYL ALCOHOL							
4-CHLORO-3-METHYLPHENOL	< 10						
CHRYSENE	< 10						
4-CHLOROANILINE							
2-CHLOROPHENOL	< 10						
2-CHLORONAPHTHALENE	< 10						
4-CHLOROPHENYL PHENYL ETHER	< 10						
DIBENZ(a,h)ANTHRACENE	< 10						
DIBENZOFURAN							
3,3'-DICHLOROBENZIDINE	< 20						

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name (Bldg. Number)	SHIP CREEK I	SHIP CREEK II					
Location ID	687-NS-404	687-NS-405					
Sample ID	GN912341	GN870179	GN870709	GN870848	GN880018	GN880099	GN880159
Sample Date	911001	870301	871001	871201	880301	880601	880901
Lab Sample ID	055577	021105	068288	082686	018886	038866	060152
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,2-DICHLOROBENZENE	< 10						
1,3-DICHLOROBENZENE	< 10						
1,4-DICHLOROBENZENE	< 10						
DICHLOROBENZENES							
2,4-DICHLOROPHENOL	< 10						
DIETHYL PHTHALATE	< 10						
2,4-DIMETHYLPHENOL	< 10						
DIMETHYL PHTHALATE	< 10						
4,6-DINITRO-2-METHYLPHENOL	< 50						
DI-n-BUTYL PHTHALATE	< 10						
DI-n-OCTYL PHTHALATE (bis-(2-ETHYLHEXYL)PHTHALATE)	< 10						
2,4-DINITROPHENOL	< 50						
2,4-DINITROTOLUENE	< 10						
2,6-DINITROTOLUENE	< 10						
1,2-DIPHENYLHYDRAZINE							
FLUORENE	< 10						
FLUORANTHENE	< 10						
HEXACHLOROBUTADIENE	< 10						
HEXACHLOROCYCLOPENTADIENE	< 10						
HEXACHLOROBENZENE	< 10						
HEXACHLOROETHANE	< 10						
INDENO(1,2,3-c,d)PYRENE	< 10						
ISOPHORONE	< 10						
2-METHYLPHENOL (o-CRESOL)							
4-METHYLPHENOL (p-CRESOL)							
2-METHYLNAPHTHALENE							
NAPHTHALENE	< 10						

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name (Bldg. Number)	SHIP CREEK I	SHIP CREEK II					
Location ID	687-NS-404	687-NS-405					
Sample ID	GN912341	GN870179	GN870709	GN870848	GN880018	GN880099	GN880159
Sample Date	911001	870301	871001	871201	880301	880601	880901
Lab Sample ID	055577	021105	068288	082686	018886	038866	060152
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
N-NITROSODIMETHYLAMINE	< 10						
N-NITROSODIPHENYLAMINE	< 10						
N-NITROSODI-n-PROPYLAMINE	< 10						
2-NITROANILINE							
3-NITROANILINE							
4-NITROANILINE							
NITROBENZENE	< 10						
2-NITROPHENOL	< 10						
4-NITROPHENOL	< 50						
PENTACHLOROPHENOL	< 50						
PHENANTHRENE	< 10						
PHENOL	< 10	< 10	< 10	< 10	< 10	< 10	< 10
PYRENE	< 10						
SURFACTANTS							
1,2,4-TRICHLOROBENZENE	< 10						
2,4,5-TRICHLOROPHENOL							
2,4,6-TRICHLOROPHENOL	< 10						
TETRACHLOROPHENOLS, TOTAL							

< = less than detection limit

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name (Bldg. Number) Location ID	SHIP CREEK II 687-NS-405						
Sample ID	GN880212	GN880212	GN880212	GN890038	GN890044	GN890044	GN890062
Sample Date	881101	881101	881101	890628	890705	890705	890911
Lab Sample ID	072503	72021	72022	039946	020301	020401	047638
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ACENAPHTHALENE							
ACENAPHTHENE							
ANILINE (PHENYLAMINE, AMINOBENZENE)							
ANTHRACENE							
BENZYL BUTYL PHTHALATE							
bis(2-CHLOROETHOXY) METHANE							
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)							
bis(2-CHLOROISOPROPYL) ETHER							
bis(2-ETHYLHEXYL) PHTHALATE							
4-BROMOPHENYL PHENYL ETHER							
BENZO(a)ANTHRACENE							
BENZOIC ACID							
BENZO(a)PYRENE							
BENZO(b)FLUORANTHENE							
BENZIDINE							
BENZO(g,h,i)PERYLENE							
BENZO(k)FLUORANTHENE							
BENZYL ALCOHOL							
4-CHLORO-3-METHYLPHENOL							
CHRYSENE							
4-CHLOROANILINE							
2-CHLOROPHENOL							
2-CHLORONAPHTHALENE							
4-CHLOROPHENYL PHENYL ETHER							
DIBENZ(a,h)ANTHRACENE							
DIBENZOFURAN							
3,3'-DICHLOROBENZIDINE							

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	SHIP						
(Bldg. Number)	CREEK II						
Location ID	687-NS-405						
Sample ID	GN880212	GN880212	GN880212	GN890038	GN890044	GN890044	GN890062
Sample Date	881101	881101	881101	890628	890705	890705	890911
Lab Sample ID	072503	72021	72022	039946	020301	020401	047638
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,2-DICHLOROBENZENE		< .1	< 2		< .5	< 1	
1,3-DICHLOROBENZENE		< .1	< 2		< .5	< .5	
1,4-DICHLOROBENZENE		< .1	< 2		< .5	< .7	
DICHLOROBENZENES							
2,4-DICHLOROPHENOL							
DIETHYL PHTHALATE							
2,4-DIMETHYLPHENOL							
DIMETHYL PHTHALATE							
4,6-DINITRO-2-METHYLPHENOL							
DI-n-BUTYL PHTHALATE							
DI-n-OCTYL PHTHALATE (bis-(2-ETHYLHEXYL)PHTHALATE)							
2,4-DINITROPHENOL							
2,4-DINITROTOLUENE							
2,6-DINITROTOLUENE							
1,2-DIPHENYLHYDRAZINE							
FLUORENE							
FLUORANTHENE							
HEXACHLOROBUTADIENE							
HEXACHLOROCYCLOPENTADIENE							
HEXACHLOROBENZENE							
HEXACHLOROETHANE							
INDENO(1,2,3-c,d)PYRENE							
ISOPHORONE							
2-METHYLPHENOL (o-CRESOL)							
4-METHYLPHENOL (p-CRESOL)							
2-METHYLNAPHTHALENE							
NAPHTHALENE							

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	SHIP						
(Bldg. Number)	CREEK II						
Location ID	687-NS-405						
Sample ID	GN880212	GN880212	GN880212	GN890038	GN890044	GN890044	GN890062
Sample Date	881101	881101	881101	890628	890705	890705	890911
Lab Sample ID	072503	72021	72022	039946	020301	020401	047638
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
N-NITROSODIMETHYLAMINE							
N-NITROSODIPHENYLAMINE							
N-NITROSODI-n-PROPYLAMINE							
2-NITROANILINE							
3-NITROANILINE							
4-NITROANILINE							
NITROBENZENE							
2-NITROPHENOL							
4-NITROPHENOL							
PENTACHLOROPHENOL							
PHENANTHRENE							
PHENOL	< 10			< 10			< 10
PYRENE							
SURFACTANTS							
1,2,4-TRICHLOROBENZENE							
2,4,5-TRICHLOROPHENOL							
2,4,6-TRICHLOROPHENOL							
TETRACHLOROPHENOLS, TOTAL							

< = less than detection limit

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name (Bldg. Number) Location ID	SHIP CREEK II 687-NS-405						
Sample ID	GN890068	GN890068	GN900097	GN900099	GN900100	GN900154	GN900157
Sample Date	890821	890821	900417	900401	900401	900625	900625
Lab Sample ID	020302	020401	021302	26451	26456	021302	9011123
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ACENAPHTHALENE					< 10		< 10
ACENAPHTHENE					< 10		< 10
ANILINE (PHENYLAMINE, AMINOBENZENE)					< 10		
ANTHRACENE					< 10		< 10
BENZYL BUTYL PHTHALATE					< 10		< 10
bis(2-CHLOROETHOXY) METHANE					< 10		< 10
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)					< 10		< 10
bis(2-CHLOROISOPROPYL) ETHER					< 10		< 10
bis(2-ETHYLHEXYL) PHTHALATE					< 10		< 10
4-BROMOPHENYL PHENYL ETHER					< 10		< 10
BENZO(a)ANTHRACENE					< 10		< 10
BENZOIC ACID					< 10		< 50
BENZO(a)PYRENE					< 10		< 10
BENZO(b)FLUORANTHENE					< 10		< 10
BENZIDINE							< 50
BENZO(g,h,i)PERYLENE					< 10		< 10
BENZO(k)FLUORANTHENE					< 10		< 10
BENZYL ALCOHOL					< 10		< 10
4-CHLORO-3-METHYLPHENOL					< 10		< 10
CHRYSENE					< 10		< 10
4-CHLOROANILINE					< 10		< 10
2-CHLOROPHENOL					< 10		< 10
2-CHLORONAPHTHALENE					< 10		< 10
4-CHLOROPHENYL PHENYL ETHER					< 10		< 10
DIBENZ(a,h)ANTHRACENE					< 10		< 10
DIBENZOFURAN					< 10		< 10
3,3'-DICHLOROBENZIDINE					< 10		< 20

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	SHIP						
(Bldg. Number)	CREEK II						
Location ID	687-NS-405						
Sample ID	GN890068	GN890068	GN900097	GN900099	GN900100	GN900154	GN900157
Sample Date	890821	890821	900417	900401	900401	900625	900625
Lab Sample ID	020302	020401	021302	26451	26456	021302	9011123
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,2-DICHLOROBENZENE	< 1	< 1		< 4	< 10		< 10
1,3-DICHLOROBENZENE	< .5	< .5		< 4	< 10		< 10
1,4-DICHLOROBENZENE	< .7	< .7		< 4	< 10		< 10
DICHLOROBENZENES							
2,4-DICHLOROPHENOL					< 10		< 10
DIETHYL PHTHALATE					< 10		< 10
2,4-DIMETHYLPHENOL					< 10		< 10
DIMETHYL PHTHALATE					< 10		< 10
4,6-DINITRO-2-METHYLPHENOL					< 10		< 50
DI-n-BUTYL PHTHALATE					< 10		< 10
DI-n-OCTYL PHTHALATE (bis-(2-ETHYLHEXYL)PHTHALATE)					< 10		< 10
2,4-DINITROPHENOL					< 10		< 50
2,4-DINITROTOLUENE					< 10		< 10
2,6-DINITROTOLUENE					< 10		< 10
1,2-DIPHENYLHYDRAZINE							< 10
FLUORENE					< .01		< 10
FLUORANTHENE					< 10		< 10
HEXACHLOROBUTADIENE					< 10		< 10
HEXACHLOROCYCLOPENTADIENE					< 10		< 10
HEXACHLOROBENZENE					< 10		< 10
HEXACHLOROETHANE					< 10		< 10
INDENO(1,2,3-c,d)PYRENE					< 10		< 10
ISOPHORONE					< 10		< 10
2-METHYLPHENOL (o-CRESOL)					< 10		< 10
4-METHYLPHENOL (p-CRESOL)					< 10		< 10
2-METHYLNAPHTHALENE					< 10		< 10
NAPHTHALENE					< 10		< 10

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name (Bldg. Number) Location ID	SHIP CREEK II 687-NS-405						
Sample ID	GN890068	GN890068	GN900097	GN900099	GN900100	GN900154	GN900157
Sample Date	890821	890821	900417	900401	900401	900625	900625
Lab Sample ID	020302	020401	021302	26451	26456	021302	9011123
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
N-NITROSODIMETHYLAMINE							< 10
N-NITROSODIPHENYLAMINE					< 10		< 10
N-NITROSODI-n-PROPYLAMINE					< 10		< 10
2-NITROANILINE					< 10		< 50
3-NITROANILINE					< 10		< 50
4-NITROANILINE					< 10		< 50
NITROBENZENE					< 10		< 10
2-NITROPHENOL					< 10		< 10
4-NITROPHENOL					< 10		< 50
PENTACHLOROPHENOL					< 10		< 50
PHENANTHRENE					< 10		< 10
PHENOL			< 10		< 10	< 10	< 10
PYRENE					< 10		< 10
SURFACTANTS							
1,2,4-TRICHLOROBENZENE					< 10		< 10
2,4,5-TRICHLOROPHENOL					< 10		< 50
2,4,6-TRICHLOROPHENOL					< 10		< 10
TETRACHLOROPHENOLS, TOTAL					< 10		

< = less than detection limit

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	SHIP CREEK						
(Bldg. Number)	II						
Location ID	687-NS-405						
Sample ID	GN900287	GN900288	GN912093	GN912097	GN912233	GN912327	GN912330
Sample Date	901007	901107	910501	910501	910722	911021	911021
Lab Sample ID	021401	90111204-2	021302	021701	021302	021302	020201
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ACENAPHTHALENE		< 10		< 3.5			
ACENAPHTHENE		< 10		< 1.9			
ANILINE (PHENYLAMINE, AMINOBENZENE)							
ANTHRACENE		< 10		< 1.9			
BENZYL BUTYL PHTHALATE		< 10		< 2.5			
bis(2-CHLOROETHOXY) METHANE		< 10		< 5.3			
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)		< 10		< 5.7			
bis(2-CHLOROISOPROPYL) ETHER		< 10		< 5.7			
bis(2-ETHYLHEXYL) PHTHALATE		< 10					
4-BROMOPHENYL PHENYL ETHER		< 10		< 1.9			
BENZO(a)ANTHRACENE		< 10		< 7.8			
BENZOIC ACID		< 50					
BENZO(a)PYRENE		< 10		< 2.5			
BENZO(b)FLUORANTHENE		< 10		< 4.8			
BENZIDINE		< 50		< 44			
BENZO(g,h,i)PERYLENE		< 10		< 4.1			
BENZO(k)FLUORANTHENE		< 10		< 2.5			
BENZYL ALCOHOL		< 10					
4-CHLORO-3-METHYLPHENOL		< 10		< 3			
CHRYSENE		< 10		< 2.5			
4-CHLOROANILINE		< 10					
2-CHLOROPHENOL		< 10		< 3.3			
2-CHLORONAPHTHALENE		< 10		< 1.9			
4-CHLOROPHENYL PHENYL ETHER		< 10		< 4.2			
DIBENZ(a,h)ANTHRACENE		< 10		< 2.5			
DIBENZOFURAN		< 10					
3,3'-DICHLOROBENZIDINE		< 20		< 16.5			

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	SHIP CREEK						
(Bldg. Number)	II						
Location ID	687-NS-405						
Sample ID	GN900287	GN900288	GN912093	GN912097	GN912233	GN912327	GN912330
Sample Date	901007	901107	910501	910501	910722	911021	911021
Lab Sample ID	021401	90111204-2	021302	021701	021302	021302	020201
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,2-DICHLOROBENZENE		< 10		< 1.9			< 1.8
1,3-DICHLOROBENZENE		< 10		< 1.9			< 2
1,4-DICHLOROBENZENE		< 10		< 4.4			< 1.9
DICHLOROBENZENES							
2,4-DICHLOROPHENOL		< 10		< 20			
DIETHYL PHTHALATE		< 10		< 1.9			
2,4-DIMETHYLPHENOL		< 10		< 2.7			
DIMETHYL PHTHALATE		< 10		< 1.6			
4,6-DINITRO-2-METHYLPHENOL		< 50		< 10			
DI-n-BUTYL PHTHALATE		< 10		< 2.5			
DI-n-OCTYL PHTHALATE (bis-(2-ETHYLHEXYL)PHTHALATE)		< 10		< 2.5			
2,4-DINITROPHENOL		< 50		< 2.7			
2,4-DINITROTOLUENE		< 10		< 5.7			
2,6-DINITROTOLUENE		< 10		< 1.9			
1,2-DIPHENYLHYDRAZINE		< 10		< 10			
FLUORENE		< 10		< .0022			
FLUORANTHENE		< 10		< 1.9			
HEXACHLOROBUTADIENE		< 10		< .9			
HEXACHLOROCYCLOPENTADIENE		< 10		< .9			
HEXACHLOROBENZENE		< 10		< 1.9			
HEXACHLOROETHANE		< 10		< 1.6			
INDENO(1,2,3-c,d)PYRENE		< 10		< 3.7			
ISOPHORONE		< 10		< 2.2			
2-METHYLPHENOL (o-CRESOL)		< 10					
4-METHYLPHENOL (p-CRESOL)		< 10					
2-METHYLNAPHTHALENE		< 10					
NAPHTHALENE		< 10		< 1.6			

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	SHIP CREEK						
(Bldg. Number)	II						
Location ID	687-NS-405						
Sample ID	GN900287	GN900288	GN912093	GN912097	GN912233	GN912327	GN912330
Sample Date	901007	901107	910501	910501	910722	911021	911021
Lab Sample ID	021401	90111204-2	021302	021701	021302	021302	020201
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
N-NITROSODIMETHYLAMINE		< 10		< 10			
N-NITROSODIPHENYLAMINE		< 10		< 1.9			
N-NITROSODI-n-PROPYLAMINE		< 10		< 10			
2-NITROANILINE		< 50					
3-NITROANILINE		< 50					
4-NITROANILINE		< 50					
NITROBENZENE		< 10		< 1.9			
2-NITROPHENOL		< 10		< 3.6			
4-NITROPHENOL		< 50		< 2.4			
PENTACHLOROPHENOL		< 50		< 3.6			
PHENANTHRENE		< 10		< 5.4			
PHENOL	< 10	< 10	< 10	< 1.5	< 10	< 10	
PYRENE		< 10		< 1.9			
SURFACTANTS							
1,2,4-TRICHLOROBENZENE		< 10		< 1.9			
2,4,5-TRICHLOROPHENOL		< 50					
2,4,6-TRICHLOROPHENOL		< 10		< 2.7			
TETRACHLOROPHENOLS, TOTAL							

< = less than detection limit

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name (Bldg. Number)	SIX MILE LAKE								
Location ID	687-NS-403								
Sample ID	0184	0185	0284	0285	0384	0385	0386	0484	0485
Sample Date	840101	850101	840101	850101	840101	850101	860101	840101	850101
Lab Sample ID	0184	0185	0284	0285	0384	0385	0386	0484	0485
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ACENAPHTHALENE									
ACENAPHTHENE									
ANILINE (PHENYLAMINE, AMINOBENZENE)									
ANTHRACENE									
BENZYL BUTYL PHTHALATE									
bis(2-CHLOROETHOXY) METHANE									
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)									
bis(2-CHLOROISOPROPYL) ETHER									
bis(2-ETHYLHEXYL) PHTHALATE									
4-BROMOPHENYL PHENYL ETHER									
BENZO(a)ANTHRACENE									
BENZOIC ACID									
BENZO(a)PYRENE									
BENZO(b)FLUORANTHENE									
BENZIDINE									
BENZO(g,h,i)PERYLENE									
BENZO(k)FLUORANTHENE									
BENZYL ALCOHOL									
4-CHLORO-3-METHYLPHENOL									
CHRYSENE									
4-CHLOROANILINE									
2-CHLOROPHENOL									
2-CHLORONAPHTHALENE									
4-CHLOROPHENYL PHENYL ETHER									
DIBENZ(a,h)ANTHRACENE									
DIBENZOFURAN									
3,3'-DICHLOROBENZIDINE									

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name (Bldg. Number)	SIX MILE LAKE								
Location ID	687-NS-403								
Sample ID	0184	0185	0284	0285	0384	0385	0386	0484	0485
Sample Date	840101	850101	840101	850101	840101	850101	860101	840101	850101
Lab Sample ID	0184	0185	0284	0285	0384	0385	0386	0484	0485
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,2-DICHLOROBENZENE									
1,3-DICHLOROBENZENE									
1,4-DICHLOROBENZENE									
DICHLOROBENZENES									
2,4-DICHLOROPHENOL									
DIETHYL PHTHALATE									
2,4-DIMETHYLPHENOL									
DIMETHYL PHTHALATE									
4,6-DINITRO-2-METHYLPHENOL									
DI-n-BUTYL PHTHALATE									
DI-n-OCTYL PHTHALATE (bis-(2-ETHYLHEXYL)PHTHALATE)									
2,4-DINITROPHENOL									
2,4-DINITROTOLUENE									
2,6-DINITROTOLUENE									
1,2-DIPHENYLHYDRAZINE									
FLUORENE									
FLUORANTHENE									
HEXACHLOROBUTADIENE									
HEXACHLOROCYCLOPENTADIENE									
HEXACHLOROBENZENE									
HEXACHLOROETHANE									
INDENO(1,2,3-c,d)PYRENE									
ISOPHORONE									
2-METHYLPHENOL (o-CRESOL)									
4-METHYLPHENOL (p-CRESOL)									
2-METHYLNAPHTHALENE									
NAPHTHALENE									

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name (Bldg. Number)	SIX MILE LAKE								
Location ID	687-NS-403								
Sample ID	0184	0185	0284	0285	0384	0385	0386	0484	0485
Sample Date	840101	850101	840101	850101	840101	850101	860101	840101	850101
Lab Sample ID	0184	0185	0284	0285	0384	0385	0386	0484	0485
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
N-NITROSODIMETHYLAMINE									
N-NITROSODIPHENYLAMINE									
N-NITROSODI-n-PROPYLAMINE									
2-NITROANILINE									
3-NITROANILINE									
4-NITROANILINE									
NITROBENZENE									
2-NITROPHENOL									
4-NITROPHENOL									
PENTACHLOROPHENOL									
PHENANTHRENE									
PHENOL	< 10000	< 10000	< 10000	< 10000	< 10000	< 10000	< 10000	< 10000	13000
PYRENE									
SURFACTANTS	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
1,2,4-TRICHLOROBENZENE									
2,4,5-TRICHLOROPHENOL									
2,4,6-TRICHLOROPHENOL									
TETRACHLOROPHENOLS, TOTAL									

< = less than detection limit

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name (Bldg. Number)	SIX MILE LAKE									
Location ID	687-NS-403									
Sample ID	0584	0585	0684	0685	0686	0784	0785	0884	0885	0984
Sample Date	840101	850101	840101	850101	860101	840101	850101	840101	850101	840101
Lab Sample ID	0584	0585	0684	0685	0686	0784	0785	0884	0885	0984
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ACENAPHTHALENE										
ACENAPHTHENE										
ANILINE (PHENYLAMINE, AMINOBENZENE)										
ANTHRACENE										
BENZYL BUTYL PHTHALATE										
bis(2-CHLOROETHOXY) METHANE										
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)										
bis(2-CHLOROISOPROPYL) ETHER										
bis(2-ETHYLHEXYL) PHTHALATE										
4-BROMOPHENYL PHENYL ETHER										
BENZO(a)ANTHRACENE										
BENZOIC ACID										
BENZO(a)PYRENE										
BENZO(b)FLUORANTHENE										
BENZIDINE										
BENZO(g,h,i)PERYLENE										
BENZO(k)FLUORANTHENE										
BENZYL ALCOHOL										
4-CHLORO-3-METHYLPHENOL										
CHRYSENE										
4-CHLOROANILINE										
2-CHLOROPHENOL										
2-CHLORONAPHTHALENE										
4-CHLOROPHENYL PHENYL ETHER										
DIBENZ(a,h)ANTHRACENE										
DIBENZOFURAN										
3,3'-DICHLOROBENZIDINE										

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name (Bldg. Number) Location ID	SIX MILE LAKE 687-NS-403									
Sample ID	0584	0585	0684	0685	0686	0784	0785	0884	0885	0984
Sample Date	840101	850101	840101	850101	860101	840101	850101	840101	850101	840101
Lab Sample ID	0584	0585	0684	0685	0686	0784	0785	0884	0885	0984
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,2-DICHLOROBENZENE										
1,3-DICHLOROBENZENE										
1,4-DICHLOROBENZENE										
DICHLOROBENZENES										
2,4-DICHLOROPHENOL										
DIETHYL PHTHALATE										
2,4-DIMETHYLPHENOL										
DIMETHYL PHTHALATE										
4,6-DINITRO-2-METHYLPHENOL										
DI-n-BUTYL PHTHALATE										
DI-n-OCTYL PHTHALATE (bis-(2-ETHYLHEXYL)PHTHALATE)										
2,4-DINITROPHENOL										
2,4-DINITROTOLUENE										
2,6-DINITROTOLUENE										
1,2-DIPHENYLHYDRAZINE										
FLUORENE										
FLUORANTHENE										
HEXACHLOROBUTADIENE										
HEXACHLOROCYCLOPENTADIENE										
HEXACHLOROBENZENE										
HEXACHLOROETHANE										
INDENO(1,2,3-c,d)PYRENE										
ISOPHORONE										
2-METHYLPHENOL (o-CRESOL)										
4-METHYLPHENOL (p-CRESOL)										
2-METHYLNAPHTHALENE										
NAPHTHALENE										

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	SIX MILE LAKE									
(Bldg. Number)										
Location ID	687-NS-403									
Sample ID	0584	0585	0684	0685	0686	0784	0785	0884	0885	0984
Sample Date	840101	850101	840101	850101	860101	840101	850101	840101	850101	840101
Lab Sample ID	0584	0585	0684	0685	0686	0784	0785	0884	0885	0984
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
N-NITROSODIMETHYLAMINE										
N-NITROSODIPHENYLAMINE										
N-NITROSODI-n-PROPYLAMINE										
2-NITROANILINE										
3-NITROANILINE										
4-NITROANILINE										
NITROBENZENE										
2-NITROPHENOL										
4-NITROPHENOL										
PENTACHLOROPHENOL										
PHENANTHRENE										
PHENOL	< 10000	35000	< 10000	8000	< 10000	< 10000	< 10000	< 10000	10000	< 10000
PYRENE										
SURFACTANTS	< 100	200	< 100	< 100	< 100	< 100	< 100	< 100	< 100	2100
1,2,4-TRICHLOROBENZENE										
2,4,5-TRICHLOROPHENOL										
2,4,6-TRICHLOROPHENOL										
TETRACHLOROPHENOLS, TOTAL										

< = less than detection limit

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name (Bldg. Number) Location ID	SIX MILE LAKE 687-NS-403								
Sample ID	0985	0986	1084	1184	1185	1186	1284	GN870176	GN870773
Sample Date	850101	860101	840101	840101	850101	860101	840101	870330	871028
Lab Sample ID	0985	0986	1084	1184	1185	1186	1284	021087	076395
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ACENAPHTHALENE									
ACENAPHTHENE									
ANILINE (PHENYLAMINE, AMINOBENZENE)									
ANTHRACENE									
BENZYL BUTYL PHTHALATE									
bis(2-CHLOROETHOXY) METHANE									
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)									
bis(2-CHLOROISOPROPYL) ETHER									
bis(2-ETHYLHEXYL) PHTHALATE									
4-BROMOPHENYL PHENYL ETHER									
BENZO(a)ANTHRACENE									
BENZOIC ACID									
BENZO(a)PYRENE									
BENZO(b)FLUORANTHENE									
BENZIDINE									
BENZO(g,h,i)PERYLENE									
BENZO(k)FLUORANTHENE									
BENZYL ALCOHOL									
4-CHLORO-3-METHYLPHENOL									
CHRYSENE									
4-CHLOROANILINE									
2-CHLOROPHENOL									
2-CHLORONAPHTHALENE									
4-CHLOROPHENYL PHENYL ETHER									
DIBENZ(a,h)ANTHRACENE									
DIBENZOFURAN									
3,3'-DICHLOROBENZIDINE									

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name (Bldg. Number) Location ID	SIX MILE LAKE 687-NS-403								
Sample ID	0985	0986	1084	1184	1185	1186	1284	GN870176	GN870773
Sample Date	850101	860101	840101	840101	850101	860101	840101	870330	871028
Lab Sample ID	0985	0986	1084	1184	1185	1186	1284	021087	076395
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,2-DICHLOROBENZENE									
1,3-DICHLOROBENZENE									
1,4-DICHLOROBENZENE									
DICHLOROBENZENES									
2,4-DICHLOROPHENOL									
DIETHYL PHTHALATE									
2,4-DIMETHYLPHENOL									
DIMETHYL PHTHALATE									
4,6-DINITRO-2-METHYLPHENOL									
DI-n-BUTYL PHTHALATE									
DI-n-OCTYL PHTHALATE (bis-(2-ETHYLHEXYL)PHTHALATE)									
2,4-DINITROPHENOL									
2,4-DINITROTOLUENE									
2,6-DINITROTOLUENE									
1,2-DIPHENYLHYDRAZINE									
FLUORENE									
FLUORANTHENE									
HEXACHLOROBUTADIENE									
HEXACHLOROCYCLOPENTADIENE									
HEXACHLOROBENZENE									
HEXACHLOROETHANE									
INDENO(1,2,3-c,d)PYRENE									
ISOPHORONE									
2-METHYLPHENOL (o-CRESOL)									
4-METHYLPHENOL (p-CRESOL)									
2-METHYLNAPHTHALENE									
NAPHTHALENE									

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name (Bldg. Number) Location ID	SIX MILE LAKE 687-NS-403								
Sample ID	0985	0986	1084	1184	1185	1186	1284	GN870176	GN870773
Sample Date	850101	860101	840101	840101	850101	860101	840101	870330	871028
Lab Sample ID	0985	0986	1084	1184	1185	1186	1284	021087	076395
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
N-NITROSODIMETHYLAMINE									
N-NITROSODIPHENYLAMINE									
N-NITROSODI-n-PROPYLAMINE									
2-NITROANILINE									
3-NITROANILINE									
4-NITROANILINE									
NITROBENZENE									
2-NITROPHENOL									
4-NITROPHENOL									
PENTACHLOROPHENOL									
PHENANTHRENE									
PHENOL	< 10000	< 10000	< 10000	< 10000	< 10000	< 10000	< 10000	< 10	< 10
PYRENE									
SURFACTANTS	< 100	< 100	< 100	< 100	< 200	< 100	< 100		
1,2,4-TRICHLOROBENZENE									
2,4,5-TRICHLOROPHENOL									
2,4,6-TRICHLOROPHENOL									
TETRACHLOROPHENOLS, TOTAL									

< = less than detection limit

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name (Bldg. Number) Location ID	SIX MILE LAKE 687-NS-403						
Sample ID	GN870846	GN880025	GN880103	GN880163	GN880210	GN890018	GN890041
Sample Date	871119	880331	880623	880923	881115	890328	900629
Lab Sample ID	082673	021503	040407	062596	072494	018467	039963
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ACENAPHTHALENE							
ACENAPHTHENE							
ANILINE (PHENYLAMINE, AMINOBENZENE)							
ANTHRACENE							
BENZYL BUTYL PHTHALATE							
bis(2-CHLOROETHOXY) METHANE							
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)							
bis(2-CHLOROISOPROPYL) ETHER							
bis(2-ETHYLHEXYL) PHTHALATE							
4-BROMOPHENYL PHENYL ETHER							
BENZO(a)ANTHRACENE							
BENZOIC ACID							
BENZO(a)PYRENE							
BENZO(b)FLUORANTHENE							
BENZIDINE							
BENZO(g,h,i)PERYLENE							
BENZO(k)FLUORANTHENE							
BENZYL ALCOHOL							
4-CHLORO-3-METHYLPHENOL							
CHRYSENE							
4-CHLOROANILINE							
2-CHLOROPHENOL							
2-CHLORONAPHTHALENE							
4-CHLOROPHENYL PHENYL ETHER							
DIBENZ(a,h)ANTHRACENE							
DIBENZOFURAN							
3,3'-DICHLOROBENZIDINE							

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	SIX MILE LAKE						
(Bldg. Number)							
Location ID	687-NS-403						
Sample ID	GN870846	GN880025	GN880103	GN880163	GN880210	GN890018	GN890041
Sample Date	871119	880331	880623	880923	881115	890328	900629
Lab Sample ID	082673	021503	040407	062596	072494	018467	039963
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,2-DICHLOROBENZENE							
1,3-DICHLOROBENZENE							
1,4-DICHLOROBENZENE							
DICHLOROBENZENES							
2,4-DICHLOROPHENOL							
DIETHYL PHTHALATE							
2,4-DIMETHYLPHENOL							
DIMETHYL PHTHALATE							
4,6-DINITRO-2-METHYLPHENOL							
DI-n-BUTYL PHTHALATE							
DI-n-OCTYL PHTHALATE (bis-(2-ETHYLHEXYL)PHTHALATE)							
2,4-DINITROPHENOL							
2,4-DINITROTOLUENE							
2,6-DINITROTOLUENE							
1,2-DIPHENYLHYDRAZINE							
FLUORENE							
FLUORANTHENE							
HEXACHLOROBUTADIENE							
HEXACHLOROCYCLOPENTADIENE							
HEXACHLOROBENZENE							
HEXACHLOROETHANE							
INDENO(1,2,3-c,d)PYRENE							
ISOPHORONE							
2-METHYLPHENOL (o-CRESOL)							
4-METHYLPHENOL (p-CRESOL)							
2-METHYLNAPHTHALENE							
NAPHTHALENE							

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	SIX MILE						
(Bldg. Number)	LAKE						
Location ID	687-NS-403						
Sample ID	GN870846	GN880025	GN880103	GN880163	GN880210	GN890018	GN890041
Sample Date	871119	880331	880623	880923	881115	890328	900629
Lab Sample ID	082673	021503	040407	062596	072494	018467	039963
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
N-NITROSODIMETHYLAMINE							
N-NITROSODIPHENYLAMINE							
N-NITROSODI-n-PROPYLAMINE							
2-NITROANILINE							
3-NITROANILINE							
4-NITROANILINE							
NITROBENZENE							
2-NITROPHENOL							
4-NITROPHENOL							
PENTACHLOROPHENOL							
PHENANTHRENE							
PHENOL	< 10	< 10	< 10	< 10	< 10	< 10	< 10
PYRENE							
SURFACTANTS							
1,2,4-TRICHLOROBENZENE							
2,4,5-TRICHLOROPHENOL							
2,4,6-TRICHLOROPHENOL							
TETRACHLOROPHENOLS, TOTAL							

< = less than detection limit

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name (Bldg. Number) Location ID Sample ID Sample Date Lab Sample ID Units	SIX MILE LAKE 687-NS-403 GN890058 890821 047618 µg/l	 GN890081 891030 021401 µg/l	 GN900093 900417 021302 µg/l	 GN900146 900625 021302 µg/l	 GN900278 901212 90073783 µg/l	 GN912106 910515 021302 µg/l	 GN912249 910724 021302 µg/l
ACENAPHTHALENE							
ACENAPHTHENE							
ANILINE (PHENYLAMINE, AMINOBENZENE)							
ANTHRACENE							
BENZYL BUTYL PHTHALATE							
bis(2-CHLOROETHOXY) METHANE							
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)							
bis(2-CHLOROISOPROPYL) ETHER							
bis(2-ETHYLHEXYL) PHTHALATE							
4-BROMOPHENYL PHENYL ETHER							
BENZO(a)ANTHRACENE							
BENZOIC ACID							
BENZO(a)PYRENE							
BENZO(b)FLUORANTHENE							
BENZIDINE							
BENZO(g,h,i)PERYLENE							
BENZO(k)FLUORANTHENE							
BENZYL ALCOHOL							
4-CHLORO-3-METHYLPHENOL							
CHRYSENE							
4-CHLOROANILINE							
2-CHLOROPHENOL							
2-CHLORONAPHTHALENE							
4-CHLOROPHENYL PHENYL ETHER							
DIBENZ(a,h)ANTHRACENE							
DIBENZOFURAN							
3,3'-DICHLOROBENZIDINE							

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	SIX MILE LAKE						
(Bldg. Number)							
Location ID	687-NS-403						
Sample ID	GN890058	GN890081	GN900093	GN900146	GN900278	GN912106	GN912249
Sample Date	890821	891030	900417	900625	901212	910515	910724
Lab Sample ID	047618	021401	021302	021302	90073783	021302	021302
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,2-DICHLOROBENZENE							
1,3-DICHLOROBENZENE							
1,4-DICHLOROBENZENE							
DICHLOROBENZENES							
2,4-DICHLOROPHENOL							
DIETHYL PHTHALATE							
2,4-DIMETHYLPHENOL							
DIMETHYL PHTHALATE							
4,6-DINITRO-2-METHYLPHENOL							
DI-n-BUTYL PHTHALATE							
DI-n-OCTYL PHTHALATE (bis-(2-ETHYLHEXYL)PHTHALATE)							
2,4-DINITROPHENOL							
2,4-DINITROTOLUENE							
2,6-DINITROTOLUENE							
1,2-DIPHENYLHYDRAZINE							
FLUORENE							
FLUORANTHENE							
HEXACHLOROBUTADIENE							
HEXACHLOROCYCLOPENTADIENE							
HEXACHLOROBENZENE							
HEXACHLOROETHANE							
INDENO(1,2,3-c,d)PYRENE							
ISOPHORONE							
2-METHYLPHENOL (o-CRESOL)							
4-METHYLPHENOL (p-CRESOL)							
2-METHYLNAPHTHALENE							
NAPHTHALENE							

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name (Bldg. Number)	SIX MILE LAKE						
Location ID	687-NS-403						
Sample ID	GN890058	GN890081	GN900093	GN900146	GN900278	GN912106	GN912249
Sample Date	890821	891030	900417	900625	901212	910515	910724
Lab Sample ID	047618	021401	021302	021302	90073783	021302	021302
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
N-NITROSODIMETHYLAMINE							
N-NITROSODIPHENYLAMINE							
N-NITROSODI-n-PROPYLAMINE							
2-NITROANILINE							
3-NITROANILINE							
4-NITROANILINE							
NITROBENZENE							
2-NITROPHENOL							
4-NITROPHENOL							
PENTACHLOROPHENOL							
PHENANTHRENE							
PHENOL	< 10	< 10	< 10	< 10	< 10	< 10	< 10
PYRENE							
SURFACTANTS							
1,2,4-TRICHLOROBENZENE							
2,4,5-TRICHLOROPHENOL							
2,4,6-TRICHLOROPHENOL							
TETRACHLOROPHENOLS, TOTAL							

< = less than detection limit

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name (Bldg. Number)	SIX MILE LAKE 687-NS-403
Location ID	GN912332
Sample ID	911022
Sample Date	021302
Lab Sample ID	
Units	µg/l
ACENAPHTHALENE	
ACENAPHTHENE	
ANILINE (PHENYLAMINE, AMINOBENZENE)	
ANTHRACENE	
BENZYL BUTYL PHTHALATE	
bis(2-CHLOROETHOXY) METHANE	
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	
bis(2-CHLOROISOPROPYL) ETHER	
bis(2-ETHYLHEXYL) PHTHALATE	
4-BROMOPHENYL PHENYL ETHER	
BENZO(a)ANTHRACENE	
BENZOIC ACID	
BENZO(a)PYRENE	
BENZO(b)FLUORANTHENE	
BENZIDINE	
BENZO(g,h,i)PERYLENE	
BENZO(k)FLUORANTHENE	
BENZYL ALCOHOL	
4-CHLORO-3-METHYLPHENOL	
CHRYSENE	
4-CHLOROANILINE	
2-CHLOROPHENOL	
2-CHLORONAPHTHALENE	
4-CHLOROPHENYL PHENYL ETHER	
DIBENZ(a,h)ANTHRACENE	
DIBENZOFURAN	
3,3'-DICHLOROBENZIDINE	

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name (Bldg. Number)	SIX MILE LAKE 687-NS-403
Location ID	GN912332
Sample ID	911022
Sample Date	021302
Lab Sample ID	
Units	µg/l
1,2-DICHLOROBENZENE	
1,3-DICHLOROBENZENE	
1,4-DICHLOROBENZENE	
DICHLOROBENZENES	
2,4-DICHLOROPHENOL	
DIETHYL PHTHALATE	
2,4-DIMETHYLPHENOL	
DIMETHYL PHTHALATE	
4,6-DINITRO-2-METHYLPHENOL	
DI-n-BUTYL PHTHALATE	
DI-n-OCTYL PHTHALATE (bis-(2-ETHYLHEXYL)PHTHALATE)	
2,4-DINITROPHENOL	
2,4-DINITROTOLUENE	
2,6-DINITROTOLUENE	
1,2-DIPHENYLHYDRAZINE	
FLUORENE	
FLUORANTHENE	
HEXACHLOROBUTADIENE	
HEXACHLOROCYCLOPENTADIENE	
HEXACHLOROBENZENE	
HEXACHLOROETHANE	
INDENO(1,2,3-c,d)PYRENE	
ISOPHORONE	
2-METHYLPHENOL (o-CRESOL)	
4-METHYLPHENOL (p-CRESOL)	
2-METHYLNAPHTHALENE	
NAPHTHALENE	

Semivolatiles in Surface Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name (Bldg. Number)	**SIX MILE LAKE**
Location ID	**687-NS-403**
Sample ID	**GN912332**
Sample Date	**911022**
Lab Sample ID	**021302**
Units	**µg/l**
N-NITROSODIMETHYLAMINE	
N-NITROSODIPHENYLAMINE	
N-NITROSODI-n-PROPYLAMINE	
2-NITROANILINE	
3-NITROANILINE	
4-NITROANILINE	
NITROBENZENE	
2-NITROPHENOL	
4-NITROPHENOL	
PENTACHLOROPHENOL	
PHENANTHRENE	
PHENOL	< 10
PYRENE	
SURFACTANTS	
1,2,4-TRICHLOROBENZENE	
2,4,5-TRICHLOROPHENOL	
2,4,6-TRICHLOROPHENOL	
TETRACHLOROPHENOLS, TOTAL	

< = less than detection limit

METALS IN GROUNDWATER

Total Metals in Ground Water
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name (Building Number) Location ID	TEST WELL #1 687-NG-601	TEST WELL #2 687-NG-602	TEST WELL #3 687-NG-603	TEST WELL #4 687-NG-604	WELL #1 (23-990) 687-PG-001		WELL #16 (32-189) 687-PG-016	
Sample ID	GN912263	GN912260	GN912269	GN912266	GP870510	GP900205	GP870513	GP900208
Sample Date	910806	910805	910807	910806	870721	900716	870727	900716
Laboratory ID	91041666	91041366	91041794	91041667	048804	020801	048810	020801
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
SILVER					< .01	< .01	< .01	.036
ALUMINUM	28.927	30.366	17.138	59.443				
ARSENIC					< .01	< .01	< .01	< .01
BARIUM					< .2	< .2	< .2	< .2
BERYLLIUM	< .01	< .01	< .01	< .01	< .01		< .01	
CADMIUM	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
COBALT	.188	.197	< .05	.458				
CHROMIUM	< .05	< .05	< .05	.053	< .05	< .05	< .05	< .05
CHROMIUM VI					< .05		< .05	
COPPER	.332	.309	.335	.711	< .02	< .02	.052	< .02
IRON	35.737	2.272	31.386	14.074	< .1	.241	2.441	5.94
MERCURY					< .001	< .001	< .001	< .001
MAGNESIUM					6.4	10	5.9	2.7
MANGANESE	10.7	16.4	4.64	20.3	< .05	< .05	< .05	< .05
MOLYBDENUM	< .1	< .1	< .05	< .05				
NICKEL	.247	.27	.162	.601	< .05		< .05	
LEAD	< .02	< .02	.027	< .02	< .02	< .005	< .02	< .005
ANTIMONY					< .01		< .01	
SELENIUM					< .01	< .01	< .01	< .01
TITANIUM	< .1	< .1	< .05	< .1				
THALLIUM					< .01		< .01	
ZINC	.222	.415	.132	.484	< .05	< .05	.204	< .05

< = less than detection limit
NA = Not analyzed
ND = Not detected, detection limit not reported

Total Metals in Ground Water
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	WELL #2		WELL #24						
(Building Number)	(22-001)		(52-668)						
Location ID	687-PG-002		687-PG-024						
Sample ID	GP870511	GP900206	52-668-84	52-668-87	GP840319	GP840503	GP841004	GP841018	GP870514
Sample Date	870721	900716	840101	870101	840702	840914	841123	841127	870721
Laboratory ID	048806	020801	52-668-84	52-668-87	39238	55558	69549	70489	048812
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
SILVER	< .01	< .01	< .01	< .01	< .01				< .01
ALUMINUM									
ARSENIC	< .01	< .01	< .01	< .01	< .01				< .01
BARIUM	< .2	< .2	< .2	< .2	< .2				< .2
BERYLLIUM	< .01								< .01
CADMIUM	< .01	< .01	< .01	< .01	< .01				< .01
COBALT									
CHROMIUM	< .05	< .05	< .05	< .05	< .05				< .05
CHROMIUM VI	< .05				< .05				< .05
COPPER	< .02	.156	.021	< .02	.021				.021
IRON	1.518	2.324	.14	4.361	.14				4.361
MERCURY	< .001	< .001	< .001	< .001	< .001				< .001
MAGNESIUM	7.1	7.4			10				8.7
MANGANESE	< .05	.124	< .05	.248	< .05				.248
MOLYBDENUM									
NICKEL	< .05								< .05
LEAD	< .02	.013	.101	< .02	< .02	< .02	< .02	< .02	< .02
ANTIMONY	< .01								< .01
SELENIUM	< .01	< .01	< .01	< .01	< .01				< .01
TITANIUM									
THALLIUM	< .01								< .01
ZINC	< .05	< .05	.804	.926	.804				.926

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Total Metals in Ground Water
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	WELL #25		WELL #27					WELL #29	
(Building Number)	(63-320)		(62-250)					(42-500)	
Location ID	687-PG-025		687-PG-027					687-PG-029	
Sample ID	63-320-87	GP870663	62-250-84	62-250-87	GP840320	GP870524	GP900209	42-500-84	42-500-87
Sample Date	870101	870902	840101	870101	840702	870727	900716	840101	870101
Laboratory ID	63-320-87	061686	62-250-84	62-250-87	39245	051964	020801	42-500-84	42-500-87
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
SILVER	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
ALUMINUM									
ARSENIC	< .01	< .01	< .01	< .01	.01	< .01	< .01	< .01	< .01
BARIUM	< .2	< .2	< .2	< .2	< .2	< .2	< .2	< .2	< .2
BERYLLIUM		< .01				< .01			
CADMIUM	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
COBALT									
CHROMIUM	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05
CHROMIUM VI		< .05			< .05	< .05			
COPPER	.109	.109	.036	< .02	.036	< .02	< .02	< .02	< .02
IRON	5.147	5.147	.103	.14	.103	.14	.148	.136	.121
MERCURY	< .001	< .001	< .001	< .001	< .001	< .001	< .001	< .001	< .001
MAGNESIUM		2.1			7.1	7.4	6.9		
MANGANESE	< .05	< .05	< .05	.056	< .05	.056	< .05	.063	.057
MOLYBDENUM									
NICKEL		< .05				< .05			
LEAD	.042	.042	< .02	< .02	< .02	< .02	< .005	.129	< .02
ANTIMONY		< .01				< .01			
SELENIUM	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
TITANIUM									
THALLIUM		< .01				< .01			
ZINC	2.698	2.698	< .05	< .05	< .05	< .05	.071	.13	< .05

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Total Metals in Ground Water
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	WELL #29								WELL #39
(Building Number)	(42-500)								(35-750)
Location ID	687-PG-029								687-PG-039
Sample ID	BLD42-500	BLD42-500	BLD42-500	GP840321	GP840504	GP841005	GP841019	GP870526	GP840322
Sample Date	840809	840809	840809	840702	840914	841123	841127	870727	840702
Laboratory ID	618701	618702	618703	39256	55560	69550	70490	051968	39262
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
SILVER				< .01				< .01	< .01
ALUMINUM									
ARSENIC				< .01				< .01	< .01
BARIUM				< .2				< .2	< .2
BERYLLIUM								< .01	
CADMIUM				< .01				< .01	< .01
COBALT									
CHROMIUM				< .05				< .05	< .05
CHROMIUM VI				< .05				< .05	< .05
COPPER				< .02				< .02	< .02
IRON				.136				.121	< .1
MERCURY				< .001				< .001	< .001
MAGNESIUM				8.1				8.5	2.1
MANGANESE				.063				.057	< .05
MOLYBDENUM									
NICKEL								< .05	
LEAD	.01	.01	< .01	< .02	< .02	< .02	< .02	< .02	< .02
ANTIMONY								< .01	
SELENIUM				< .01				< .01	< .01
TITANIUM									
THALLIUM								< .01	
ZINC				.13				< .05	< .05

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Total Metals in Ground Water
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	WELL #39		WELL #4						
(Building Number)	(35-750)		(63-600)						
Location ID	687-PG-039		687-PG-004						
Sample ID	GP870527	GP900210	63-600-84	63-600-87	GP840317	GP840502	GP841003	GP841017	GP870657
Sample Date	870727	900716	840101	870101	840702	840914	841123	841127	870901
Laboratory ID	051970	020801	63-600-84	63-600-87	39227	55559	69548	70488	061682
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
SILVER	< .01	< .01	< .01	< .01	< .01				< .01
ALUMINUM									
ARSENIC	< .01	< .01	< .01	.049	< .01				.049
BARIUM	< .2	< .2	< .2	< .2	< .2				< .2
BERYLLIUM	< .01								< .01
CADMIUM	< .01	< .01	< .01	< .01	< .01				< .01
COBALT									
CHROMIUM	< .05	< .05	< .05	< .05	< .05				< .05
CHROMIUM VI	< .05				< .05				< .05
COPPER	< .02	< .02	< .02	.072	< .02				.072
IRON	< .1	< .1	.151	28	.151				28
MERCURY	< .001	< .001	< .001	< .001	< .001				< .001
MAGNESIUM	1.8	5			10.2				10.4
MANGANESE	< .05	< .05	< .05	.365	< .05				.365
MOLYBDENUM									
NICKEL	< .05								< .05
LEAD	< .02	< .005	.101	< .02	.101	< .02	< .02	< .02	< .02
ANTIMONY	< .01								< .01
SELENIUM	< .01	< .01	< .01	< .01	< .01				< .01
TITANIUM									
THALLIUM	< .01								< .01
ZINC	< .05	< .05	.082	.523	.082				.523

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Total Metals in Ground Water
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name (Building Number) Location ID	WELL #40 (5-800) 687-PG-040					WELL #42 (11-200) 687-PG-042		WELL #43 (24-800) 687-PG-043	
Sample ID	5-800-84	5-800-87	5-800-90	GP870528	GP900211	GP870558	GP900212	GP870559	GP900213
Sample Date	840101	870101	900101	872707	900716	870805	900716	870805	900716
Laboratory ID	5-800-84	5-800-87	5-800-90	051972	020801	054773	020801	054775	020801
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
SILVER	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	.014
ALUMINUM									
ARSENIC	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
BARIUM	< .2	< .2	< .2	< .2	< .2	< .2	< .2	< .2	< .2
BERYLLIUM				< .01		< .01		< .01	
CADMIUM	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
COBALT									
CHROMIUM	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05
CHROMIUM VI				< .05		< .05		< .05	
COPPER	< .02	< .02	< .02	< .02	< .02	< .02	.685	.033	.024
IRON	< .1	< .1	< .1	< .1	< .1	< .1	2.444	2.939	.914
MERCURY	< .001	< .001	< .001	< .001	< .001	< .001	< .001	< .001	< .001
MAGNESIUM				6.5	7.2	7.2	5.5	5	5
MANGANESE	< .05	< .05	< .05	< .05	< .05	< .05	.089	< .05	< .05
MOLYBDENUM									
NICKEL				< .05		< .05		< .05	
LEAD	.103	< .02	< .005	< .02	< .005	< .02	.008	< .02	.009
ANTIMONY				< .01		< .01		< .01	
SELENIUM	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
TITANIUM									
THALLIUM				< .01		< .01		< .01	
ZINC	< .05	< .05	< .05	< .05	< .05	< .05	< .05	1.628	.085

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Total Metals in Ground Water
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name (Building Number) Location ID	WELL #46 (63-621) 687-PG-046		WELL #46 (63-621) 687-PG-046		WELL #47 (63-740) 687-PG-047				WELL #49 (52-560) 687-PG-049
Sample ID	63-621-84	63-621-87	GP840326	GP870562	63-740-84	63-740-87	GP840327	GP870656	52-560-84
Sample Date	840101	870101	840702	870805	840101	870101	840702	870901	840101
Laboratory ID	63-621-84	63-621-87	39290	054781	63-740-84	63-740-87	39293	061679	52-560-84
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
SILVER	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
ALUMINUM									
ARSENIC	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
BARIUM	< .2	< .2	< .2	< .2	< .2	< .2	< .2	< .2	< .2
BERYLLIUM				< .01				< .01	
CADMIUM	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
COBALT									
CHROMIUM	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05
CHROMIUM VI			< .05	< .05			< .05	< .05	
COPPER	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	.027
IRON	< .1	< .1	< .1	< .1	.296	1.926	.296	1.926	.135
MERCURY	< .001	< .001	< .001	< .001	< .001	< .001	< .001	< .001	< .001
MAGNESIUM			7.5	8.3			9.9	10.5	
MANGANESE	< .05	< .05	< .05	< .05	< .05	.109	< .05	.109	< .05
MOLYBDENUM									
NICKEL				< .05				< .05	
LEAD	< .02	< .02	< .02	< .02	< .02	.041	< .02	< .02	< .02
ANTIMONY				< .01				< .01	
SELENIUM	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
TITANIUM									
THALLIUM				< .01				< .01	
ZINC	.052	< .05	.052	< .05	< .05	4.058	< .05	4.058	.291

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Total Metals in Ground Water
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	WELL #49			WELL #50					
(Building Number)	(52-560)			(24-300)					
Location ID	687-PG-049			687-PG-050					
Sample ID	52-560-87	GP840328	GP870561	24-300-84	24-300-84	24-300-87	24-300-87	GP840329	GP870560
Sample Date	870101	840702	870805	840101	840702	870101	870805	840702	870805
Laboratory ID	52-560-87	39305	054779	24-300-84	24-300-84	24-300-87	24-300-87	39308	054777
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
SILVER	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
ALUMINUM									
ARSENIC	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
BARIUM	< .2	< .2	< .2	< .2	< .2	< .2	< .2	< .2	< .2
BERYLLIUM			< .01						< .01
CADMIUM	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
COBALT									
CHROMIUM	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05
CHROMIUM VI		< .05	< .05					< .05	< .05
COPPER	< .02	.135	< .02	.098	.098	< .02	< .02	.098	< .02
IRON	.126	< .1	.126	.188	.188	< .1	< .1	.188	< .1
MERCURY	< .001	< .001	< .001	< .001	< .001	< .001	< .001	< .001	< .001
MAGNESIUM		7.4	7.6		4.3		4.5	4.3	4.5
MANGANESE	.056	< .05	.056	< .05	< .00005	< .05	< .00005	< .05	< .05
MOLYBDENUM									
NICKEL			< .05						< .05
LEAD	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
ANTIMONY			< .01						< .01
SELENIUM	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
TITANIUM									
THALLIUM			< .01						< .01
ZINC	.121	.291	.121	< .05	< .05	.195	.195	< .05	.195

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Total Metals in Ground Water
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	WELL #51				WELL #53		WELL #8		
(Building Number)	(63-501)				(62-145)		(52-140)		
Location ID	687-PG-051				687-PG-053		687-PG-008		
Sample ID	63-501-84	63-501-87	GP841021	GP870575	GP840331	GP870574	52-140-84	52-140-87	GP840318
Sample Date	840101	870101	841127	870811	840702	870811	840101	870101	840705
Laboratory ID	63-501-84	63-501-87	70497	054787	39325	054785	52-140-84	52-140-87	39235
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
SILVER	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
ALUMINUM									
ARSENIC	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
BARIUM	< .2	< .2	< .2	< .2	< .2	< .2	< .2	< .2	< .2
BERYLLIUM				< .01		< .01			
CADMIUM	.011	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
COBALT									
CHROMIUM	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05
CHROMIUM VI			< .05	< .05	< .05	< .05			< .05
COPPER	< .02	.041	< .02	.041	< .02	< .02	< .02	< .02	.02
IRON	.229	.103	.229	.103	.117	< .1	.554	.702	.554
MERCURY	< .001	< .001	< .001	< .001	< .001	< .001	< .001	< .001	< .001
MAGNESIUM			8	9.7	9.1	10.3			9.5
MANGANESE	.069	< .05	.069	< .05	.053	.075	< .05	.054	< .05
MOLYBDENUM									
NICKEL				< .05		< .05			
LEAD	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
ANTIMONY				< .01		< .01			
SELENIUM	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
TITANIUM									
THALLIUM				< .01		< .01			
ZINC	.455	< .05	.455	< .05	< .05	< .05	.067	.272	.067

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Total Metals in Ground Water
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	**WELL #8**
(Building Number)	**(52-140)**
Location ID	**687-PG-008**
Sample ID	**GP870512**
Sample Date	**870721**
Laboratory ID	**048808**
Units	**mg/l**
SILVER	< .01
ALUMINUM	
ARSENIC	< .01
BARIUM	< .2
BERYLLIUM	< .01
CADMIUM	< .01
COBALT	
CHROMIUM	< .05
CHROMIUM VI	< .05
COPPER	< .02
IRON	.702
MERCURY	< .001
MAGNESIUM	9.9
MANGANESE	.054
MOLYBDENUM	
NICKEL	< .05
LEAD	< .02
ANTIMONY	< .01
SELENIUM	< .01
TITANIUM	
THALLIUM	< .01
ZINC	.272

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VOLATILES AND SEMIVOLATILES IN GROUNDWATER

Volatiles in Groundwater
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name					TEST WELL #1		TEST WELL #2	TEST WELL #3	
Location ID					687-NG-601		687-NG-602	687-NG-603	
Sampe ID	D213	D219	POTW 1118	TB	GN912264	GN912265	GN912261	GN912270	GN912271
Sample Date	880605	880605	871118	871118	910806	910806	910805	910807	910807
Laboratory ID	06/190670	06/190674	11/180137	11/180138	020201	91041668	020201	020201	91041796
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ACETONE									
ACROLEIN	< 50	< 10							
ACRYLONITRILE	< 50	< 10							
BROMODICHLOROMETHANE	< 25	< 5	.62	< .5	< 2.3		< 2.3	< 2.3	
BROMOBENZENE									
BROMOCHLOROMETHANE									
BROMOFLUOROBENZENE-p									
BROMOMETHANE	< 50	< 10	< .5	< .5	< 4		< 4	< 4	
n-BUTYLBENZENE									
SEC-BUTYLBENZENE									
t-BUTYLBENZENE									
BENZENE	< 25	< 5	< .5	< .5	< 1.6		< 1.6	< 1.6	
TOLUENE	31	< 5	< .5	< .5	< 1.1		< 1.1	< 1.1	
TOLUENE-D8									
CARBON DISULFIDE									
2-CHLOROETHYL VINYL ETHER	< 25	< 5	< .5	< .5	< 4	< 10	< 4	< 4	< 10
CHLOROBENZENE	< 25	< 5	< .5	< .5	< 3.4		< 3.4	< 3.4	
2-CHLOROTOLUENE									
4-CHLOROTOLUENE									
CHLORODIBROMOMETHANE					< 3.4		< 3.4	< 3.4	
CHLOROETHANE	< 5	< 5	< .5	< .5	< 4		< 4	< 4	
CHLOROMETHANE	< 50	< 10	< .5	< .5	< 4		< 4	< 4	
CARBON TETRACHLORIDE	< 25	< 5	< .5	< .5	< 2.2		< 2.2	< 2.2	
P-CYMENE (p-ISOPROPYLTOLUENE)									
DIBROMOCHLOROMETHANE	< 25	< 5	< .5	< .5					
1,2-DIBROMO-3-CHLOROPROPANE									
DIBROMOMETHANE									

Volatiles in Groundwater
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name					TEST WELL #1		TEST WELL #2	TEST WELL #3	
Location ID					687-NG-601		687-NG-602	687-NG-603	
Sampe ID	D213	D219	POTW 1118	TB	GN912264	GN912265	GN912261	GN912270	GN912271
Sample Date	880605	880605	871118	871118	910806	910806	910805	910807	910807
Laboratory ID	06/190670	06/190674	11/180137	11/180138	020201	91041668	020201	020201	91041796
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,1-DICHLOROETHANE	< 25	< 5	< .5	< .5	< 1.2		< 1.2	< 1.2	
1,2-DICHLOROETHANE	< 25	< 5	< .5	< .5	< 1.6		< 1.6	< 1.6	
1,2-DICHLOROETHANE-D4									
1,1-DICHLOROETHENE	< 25	< 5	< .5	< .5	< 1.9		< 1.9	< 1.9	
1,1,1-DICHLOROETHENE									
cis-1,2-DICHLOROETHYLENE									
DCE12E									
trans-1,2-DICHLOROETHENE	< 25	< 5	< .5	< .5	< 1.2		< 1.2	< 1.2	
1,2-DICHLOROETHENE(TOTAL)									
DICHLOROMETHANE									
1,1-DICHLOROPROPENE									
1,3-DICHLOROPROPYLENE (1,3-DICHLOROPROPENE MIXTURE)									
cis-1,3-DICHLOROPROPENE	< 25	< 5	< .5	< .5	< 1.1		< 1.1	< 1.1	
trans-1,3-DICHLOROPROPENE	< 25	< 5	< .5	< .5	< .3		< .3	< .3	
DCPA11									
1,2-DICHLOROPROPANE	< 25	< 5	< .5	< .5	< 1.3		< 1.3	< 1.3	
1,3-DICHLOROPROPANE									
2,2-DICHLOROPROPANE									
ETHYLBENZENE	< 25	< 5	< .5	< .5	< 2.8		< 2.8	10.7	
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)									
ETEDIBROMIDE									
TRICHLOROFLUOROMETHANE	< 25	< 5	< .5	< .5	< 4		< 4	< 4	
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE									
DICHLORODIFLUOROMETHANE			< .5	< .5					
2-HEXANONE									

Volatiles in Groundwater
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name					TEST WELL #1		TEST WELL #2	TEST WELL #3	
Location ID					687-NG-601		687-NG-602	687-NG-603	
Sampe ID	D213	D219	POTW 1118	TB	GN912264	GN912265	GN912261	GN912270	GN912271
Sample Date	880605	880605	871118	871118	910806	910806	910805	910807	910807
Laboratory ID	06/190670	06/190674	11/180137	11/180138	020201	91041668	020201	020201	91041796
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ISOPROPYLBENZENE (CUMENE)									
METHYL ETHYL KETONE (2-BUTANONE)									
CRESOLS, m & p	< 11	< 110				< 10			< 10
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)									
METHYLENE CHLORIDE	< 25	< 5	< 10	< 10	< 4.74		< 4.74	< 4.74	
n-PROPYLBENZENE									
1,1,2,2-TETRACHLOROETHANE	< 25	< 5	< .5	< .5	< 4		< 4	< 4	
TETRACHLOROETHYLENE(PCE)	< 25	< 5	< .5	< .5	< 3		< 3	< 3	
STYRENE									
BROMOFORM	< 25	< 5	< 1	< 1	< 3.1		< 3.1	< 3.1	
TRICHLOROBENZENE									
1,1,1,2-TETRACHLOROETHANE									
1,1,1-TRICHLOROETHANE	< 25	< 5	< .5	< .5	< 1.1		< 1.1	< 1.1	
1,1,2-TRICHLOROETHANE	< 25	< 5	< .5	< .5	< 3.4		< 3.4	< 3.4	
1,2,3-TRICHLOROBENZENE									
TRICHLOROETHYLENE (TCE)	< 25	< 5	< .5	< .5	< 1.9		< 1.9	5.9	
CHLOROFORM	< 25	< 5	24	.7	< .6		< .6	< .6	
1,2,3-TRICHLOROPROPANE									
1,2,4-TRIMETHYLBENZENE									
1,3,5-TRIMETHYLBENZENE (MESITYLENE)									
VINYL ACETATE									
VINYL CHLORIDE	< 50	< 10	< .5	< .5	< 4		< 4	< 4	
VOLATILE AROMATIC SCREEN									
VOLATILE ORGANIC HALOCARBON SCREEN									
XYLENES, TOTAL				< .5					
XYLENENS1214									

Volatiles in Groundwater
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name					TEST WELL #1 687-NG-601		TEST WELL #2 687-NG-602	TEST WELL #3 687-NG-603	
Location ID									
Sampe ID	D213	D219	POTW 1118	TB	GN912264	GN912265	GN912261	GN912270	GN912271
Sample Date	880605	880605	871118	871118	910806	910806	910805	910807	910807
Laboratory ID	06/190670	06/190674	11/180137	11/180138	020201	91041668	020201	020201	91041796
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
M-XYLENE (1,3-DIMETHYLBENZENE)									
M,P-XYLENE (SUM OF ISOMERS)									
O-XYLENE (1,2-DIMETHYLBENZENE)									
P-XYLENE (1,4-DIMETHYLBENZENE)									

<- less than detection limit

Volatiles in Groundwater
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	TEST WELL #4		WELL #1 (23-990)					
Location ID	687-NG-604		687-PG-001					
Sampe ID	GN912267	GN912268	GP870510	GP880013	GP880106	GP880152	GP890002	GP890010
Sample Date	910806	910806		880318	880624	880920	890124	890101
Laboratory ID	020201	91041669	45585	88032307	88062904	88092304	89012703	04419
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ACETONE								
ACROLEIN								
ACRYLONITRILE								
BROMODICHLOROMETHANE	< 2.3		< .1				< 1	
BROMOBENZENE							< 1	
BROMOCHLOROMETHANE								
BROMOFLUOROBENZENE-p								
BROMOMETHANE	< 4						< 5	
n-BUTYLBENZENE								
SEC-BUTYLBENZENE								
t-BUTYLBENZENE								
BENZENE	< 1.6			< 1	< 1	< 1	< 1	
TOLUENE	< 1.1						< 1	
TOLUENE-D8								
CARBON DISULFIDE								
2-CHLOROETHYL VINYL ETHER	< 4	< 10						
CHLOROBENZENE	< 3.4						< 1	
2-CHLOROTOLUENE							< 8	
4-CHLOROTOLUENE							< 1	
CHLORODIBROMOMETHANE	< 3.4							
CHLOROETHANE	< 4						< 2	
CHLOROMETHANE	< 4						< 5	
CARBON TETRACHLORIDE	< 2.2			< 3	< 3	< 3	< 1	
P-CYMENE (p-ISOPROPYLTOLUENE)								
DIBROMOCHLOROMETHANE			< .1				< 1	
1,2-DIBROMO-3-CHLOROPROPANE								< .01
DIBROMOMETHANE							< 1	

Volatiles in Groundwater
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	TEST WELL #4		WELL #1 (23-990)					
Location ID	687-NG-604		687-PG-001					
Sampe ID	GN912267	GN912268	GP870510	GP880013	GP880106	GP880152	GP890002	GP890010
Sample Date	910806	910806		880318	880624	880920	890124	890101
Laboratory ID	020201	91041669	45585	88032307	88062904	88092304	89012703	04419
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,1-DICHLOROETHANE	< 1.2					2	1.7	
1,2-DICHLOROETHANE	< 1.6			< 2	< 2	< 2	< 1	
1,2-DICHLOROETHANE-D4								
1,1-DICHLOROETHENE	< 1.9			< 1	< 1	< 2	< 1	
1,1,1-DICHLOROETHENE						< 2		
cis-1,2-DICHLOROETHYLENE							< 1	
DCE12E								
trans-1,2-DICHLOROETHENE	< 1.2						< 2	
1,2-DICHLOROETHENE(TOTAL)								
DICHLOROMETHANE							< 1	
1,1-DICHLOROPROPENE							< 1	
1,3-DICHLOROPROPYLENE (1,3-DICHLOROPROPENE MIXTURE)								
cis-1,3-DICHLOROPROPENE	< 1.1						< 1	
trans-1,3-DICHLOROPROPENE	< .3						< 1	
DCPA11								
1,2-DICHLOROPROPANE	< 1.3						< 1	
1,3-DICHLOROPROPANE							< 2	
2,2-DICHLOROPROPANE							< 1	
ETHYLBENZENE	< 2.8						< 1	
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)								< .01
ETEDIBROMIDE								
TRICHLOROFLUOROMETHANE	< 4					10		
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE						< 2		
DICHLORODIFLUOROMETHANE						< 2		
2-HEXANONE								

Volatiles in Groundwater
Elmendorf AFB, Alaska
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Site Name	TEST WELL #4		WELL #1 (23-990)					
Location ID	687-NG-604		687-PG-001					
Sampe ID	GN912267	GN912268	GP870510	GP880013	GP880106	GP880152	GP890002	GP890010
Sample Date	910806	910806		880318	880624	880920	890124	890101
Laboratory ID	020201	91041669	45585	88032307	88062904	88092304	89012703	04419
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ISOPROPYLBENZENE (CUMENE)								
METHYL ETHYL KETONE (2-BUTANONE)								
CRESOLS, m & p		< 10						
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)								
METHYLENE CHLORIDE	< 4.74					< 2		
n-PROPYLBENZENE								
1,1,2,2-TETRACHLOROETHANE	< 4					7	< 3	
TETRACHLOROETHYLENE(PCE)	< 3						< 1	
STYRENE							< 1	
BROMOFORM	< 3.1		< .1				< 2	
TRICHLOROBENZENE						< 2		
1,1,1,2-TETRACHLOROETHANE								
1,1,1-TRICHLOROETHANE	< 1.1			6.5	5.7	4.8	3.3	
1,1,2-TRICHLOROETHANE	< 3.4						< 1	
1,2,3-TRICHLOROBENZENE								
TRICHLOROETHYLENE (TCE)	< 1.9			3.2	2.6	2	1.4	
CHLOROFORM	< .6		1			< 2	< 1	
1,2,3-TRICHLOROPROPANE							8.7	
1,2,4-TRIMETHYLBENZENE								
1,3,5-TRIMETHYLBENZENE (MESITYLENE)								
VINYL ACETATE								
VINYL CHLORIDE	< 4			< 1	< 1	< 2	< 1	
VOLATILE AROMATIC SCREEN								
VOLATILE ORGANIC HALOCARBON SCREEN								
XYLENES, TOTAL								
XYLENENS1214								

Volatiles in Groundwater
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	TEST WELL #4		WELL #1 (23-990)					
Location ID	687-NG-604		687-PG-001					
Sampe ID	GN912267	GN912268	GP870510	GP880013	GP880106	GP880152	GP890002	GP890010
Sample Date	910806	910806		880318	880624	880920	890124	890101
Laboratory ID	020201	91041669	45585	88032307	88062904	88092304	89012703	04419
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
M-XYLENE (1,3-DIMETHYLBENZENE)							< 1	
M,P-XYLENE (SUM OF ISOMERS)								
O-XYLENE (1,2-DIMETHYLBENZENE)							< 1	
P-XYLENE (1,4-DIMETHYLBENZENE)							< 1	

<- less than detection limit

Volatiles in Groundwater
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	WELL #1							WELL #16
Location ID	(23-990) 687-PG-001							(32-189) 687-PG-016
Sampe ID	GP890027	GP890048	GP890048	GP890054	GP890101	GP890101	GP900003	GP870513
Sample Date	890501	890807	890807	890725	891218	891218	900716	870727
Laboratory ID	31220	044540	89042555	89042561	021001	89070993	90045133	45588
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ACETONE								
ACROLEIN								
ACRYLONITRILE								
BROMODICHLOROMETHANE	< .5		< .4	< .4	< .4		< .4	< .1
BROMOBENZENE	< .5		< .6	< .6	< .6	< .6	< .6	
BROMOCHLOROMETHANE	< .5		< .4	< .4	< .4		< .4	
BROMOFLUOROBENZENE-p								
BROMOMETHANE	< .5		< .9	< .9	< .9		< .9	
n-BUTYLBENZENE	< .5		< .4	< .4		< .4	< .4	
SEC-BUTYLBENZENE	< .5		< .7	< .7		< .7	< .7	
t-BUTYLBENZENE	< .5		< .3	< .3		< .3	< .3	
BENZENE	< .5		< .3	< .3		< .3	< .3	
TOLUENE	< .5		< .3	< .3		< .3	< .3	
TOLUENE-D8								
CARBON DISULFIDE								
2-CHLOROETHYL VINYL ETHER								
CHLOROBENZENE	< .5		< .3	< .3	< .3	< .3	< .3	
2-CHLOROTOLUENE	< .5		< .5	< .5	< .5	< .5	< .5	
4-CHLOROTOLUENE	< .5		< .3	< .3	< .3	< .3	< .3	
CHLORODIBROMOMETHANE	< .5		< .5	< .5	< .5		< .5	
CHLOROETHANE	< .5		< .9	< .9	< .9		< .9	
CHLOROMETHANE	< .5		< .8	< .8	< .8		< .8	
CARBON TETRACHLORIDE	< .5		< .5	< .5	1.36		< .5	
P-CYMENE (p-ISOPROPYLTOLUENE)	< .5		< .3	< .3		< .3	< .3	
DIBROMOCHLOROMETHANE								< .1
1,2-DIBROMO-3-CHLOROPROPANE		< .02						
DIBROMOMETHANE	< .5		< .5	< .5	< .5		< .5	

Volatiles in Groundwater
Elmendorf AFB, Alaska
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Site Name	WELL #1							WELL #16
Location ID	(23-990) 687-PG-001							(32-189) 687-PG-016
Sampe ID	GP890027	GP890048	GP890048	GP890054	GP890101	GP890101	GP900003	GP870513
Sample Date	890501	890807	890807	890725	891218	891218	900716	870727
Laboratory ID	31220	044540	89042555	89042561	021001	89070993	90045133	45588
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,1-DICHLOROETHANE	1		< .4	.9	5.7		2.2	
1,2-DICHLOROETHANE	< .5		< .3	< .3	< .3		< .3	
1,2-DICHLOROETHANE-D4								
1,1-DICHLOROETHENE	< .5		< .3	< .3	< .3		< .3	
1,1,1-DICHLOROETHENE								
cis-1,2-DICHLOROETHYLENE	< .5		< .2	< .2			< .2	
DCE12E					< .5			
trans-1,2-DICHLOROETHENE	< .5		< .5	< .5	< .5		< .5	
1,2-DICHLOROETHENE(TOTAL)								
DICHLOROMETHANE								
1,1-DICHLOROPROPENE	< .5		< .5	< .5			< .5	
1,3-DICHLOROPROPYLENE (1,3-DICHLOROPROPENE MIXTURE)								
cis-1,3-DICHLOROPROPENE	< .5						< .5	
trans-1,3-DICHLOROPROPENE	< .5						< .5	
DCPA11					< .5			
1,2-DICHLOROPROPANE	< .5		< .3	< .3	< .3		< .3	
1,3-DICHLOROPROPANE	< .5		< .5	< .5	< .5		< .5	
2,2-DICHLOROPROPANE	< .5		< .5	< .5	< .5		< .5	
ETHYLBENZENE	< .5		< .6	< .6		< .6	< .6	
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)								
ETEDIBROMIDE		< .02						
TRICHLOROFLUOROMETHANE	2.1		< .4	< .4	< .4		5	
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE								
DICHLORODIFLUOROMETHANE	< .5		.7	1.5	< .5		2.8	
2-HEXANONE								

Volatiles in Groundwater
Elmendorf AFB, Alaska
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Site Name	WELL #1							WELL #16
Location ID	(23-990) 687-PG-001							(32-189) 687-PG-016
Sampe ID	GP890027	GP890048	GP890048	GP890054	GP890101	GP890101	GP900003	GP870513
Sample Date	890501	890807	890807	890725	891218	891218	900716	870727
Laboratory ID	31220	044540	89042555	89042561	021001	89070993	90045133	45588
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ISOPROPYLBENZENE (CUMENE)	< .5		< .4	< .4		< .4	< .4	
METHYL ETHYL KETONE (2-BUTANONE)								
CRESOLS, m & p								
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)								
METHYLENE CHLORIDE	< .5		< .4	< .4	< .4		< .4	
n-PROPYLBENZENE	< .5		< .4	< .4		< .4	< .4	
1,1,2,2-TETRACHLOROETHANE	4		< .2	7	< .2		3.2	
TETRACHLOROETHYLENE(PCE)	< .5		< .6	< .6	< .6	< .6	< .6	
STYRENE	< .5		< .3	< .3		< .3	< .3	
BROMOFORM	< .6		< .7	< .7	< .7		< .7	< .1
TRICHLOROBENZENE								
1,1,1,2-TETRACHLOROETHANE	< .5		< .2	< .2	< .2		< .2	
1,1,1-TRICHLOROETHANE	2.4		5.3	2.7	< .5		8.4	
1,1,2-TRICHLOROETHANE	< .5		< .2	< .2	< .2		< .2	
1,2,3-TRICHLOROBENZENE	< .5		< .7	< .7		< .7	< .7	
TRICHLOROETHYLENE (TCE)	1		2.3	1.9	2.7	< .5	1.8	
CHLOROFORM	.8		< .3	1	3.3		.7	2.6
1,2,3-TRICHLOROPROPANE	< .5		< .3	< .3	< .3		< .3	
1,2,4-TRIMETHYLBENZENE	< .5		< .1	< .1		< .1	< .1	
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	< .5		< .3	< .3		< .3	< .3	
VINYL ACETATE								
VINYL CHLORIDE	< .5		< .9	< .9	< .2		< .2	
VOLATILE AROMATIC SCREEN								
VOLATILE ORGANIC HALOCARBON SCREEN								
XYLENES, TOTAL								
XYLENENS1214								

Volatiles in Groundwater
Elmendorf AFB, Alaska
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Site Name	WELL #1							WELL #16
Location ID	(23-990) 687-PG-001							(32-189) 687-PG-016
Sampe ID	GP890027	GP890048	GP890048	GP890054	GP890101	GP890101	GP900003	GP870513
Sample Date	890501	890807	890807	890725	891218	891218	900716	870727
Laboratory ID	31220	044540	89042555	89042561	021001	89070993	90045133	45588
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
M-XYLENE (1,3-DIMETHYLBENZENE)	< .5		< .3	< .3		< .3	< .3	
M,P-XYLENE (SUM OF ISOMERS)								
O-XYLENE (1,2-DIMETHYLBENZENE)	< .5		< .3	< .3		< .3	< .3	
P-XYLENE (1,4-DIMETHYLBENZENE)	< .5		< .6	< .6		< .6	< .6	

<- less than detection limit

Volatiles in Groundwater
Elmendorf AFB, Alaska
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Site Name	WELL #16 (32-189)							
Location ID	687-PG-016							
Sampe ID	GP880015	GP880110	GP880156	GP880192	GP890005	GP890013	GP890013	GP890032
Sample Date	880318	880624	880920	881019	890124	890124	890124	890530
Laboratory ID	88032309	88062908	88092308	65904	89012706	04420	4410	31230
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ACETONE								
ACROLEIN								
ACRYLONITRILE								
BROMODICHLOROMETHANE					< 1		< .5	< .5
BROMOBENZENE					< 1		< .5	< .5
BROMOCHLOROMETHANE							< .5	< .5
BROMOFLUOROBENZENE-p								
BROMOMETHANE					< 5		< .5	< .5
n-BUTYLBENZENE							< .5	< .5
SEC-BUTYLBENZENE							< .5	< .5
t-BUTYLBENZENE							< .5	< .5
BENZENE	< 1	< 1	< 1		< 1		< .5	< .5
TOLUENE					< 1		< .5	< .5
TOLUENE-D8								
CARBON DISULFIDE								
2-CHLOROETHYL VINYL ETHER								
CHLOROBENZENE					< 1		< .5	< .5
2-CHLOROTOLUENE					< 8		< .5	< .5
4-CHLOROTOLUENE					< 1		< .5	< .5
CHLORODIBROMOMETHANE							< .5	< .5
CHLOROETHANE					< 2		< .5	< .5
CHLOROMETHANE					< 5		< .5	< .5
CARBON TETRACHLORIDE	< 3	< 3	< 3		< 1		< .5	< .5
P-CYMENE (p-ISOPROPYLTOLUENE)							< .5	< .5
DIBROMOCHLOROMETHANE					< 1			
1,2-DIBROMO-3-CHLOROPROPANE				< .01		< .01		
DIBROMOMETHANE					< 1		< .5	< .5

Volatiles in Groundwater
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	WELL #16 (32-189)							
Location ID	687-PG-016							
Sampe ID	GP880015	GP880110	GP880156	GP880192	GP890005	GP890013	GP890013	GP890032
Sample Date	880318	880624	880920	881019	890124	890124	890124	890530
Laboratory ID	88032309	88062908	88092308	65904	89012706	04420	4410	31230
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,1-DICHLOROETHANE					< 1		< .5	< .5
1,2-DICHLOROETHANE	< 2	< 2	< 2		< 1		< .5	< .5
1,2-DICHLOROETHANE-D4								
1,1-DICHLOROETHENE	< 1	< 1	< 2		< 1		< .5	< .5
1,1,1-DICHLOROETHENE								
cis-1,2-DICHLOROETHYLENE					< 1		< .5	< .5
DCE12E								
trans-1,2-DICHLOROETHENE					< 2		< .5	< .5
1,2-DICHLOROETHENE(TOTAL)								
DICHLOROMETHANE					< 1			
1,1-DICHLOROPROPENE					< 1		< .5	< .5
1,3-DICHLOROPROPYLENE (1,3-DICHLOROPROPENE MIXTURE)							< .5	
cis-1,3-DICHLOROPROPENE					< 1			< .5
trans-1,3-DICHLOROPROPENE					< 1			< .5
DCPA11								
1,2-DICHLOROPROPANE					< 1		< .5	< .5
1,3-DICHLOROPROPANE					< 2		< .5	< .5
2,2-DICHLOROPROPANE					< 1		< .5	< .5
ETHYLBENZENE					< 1		< .5	< .5
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)				< .01		< .01		
ETEDIBROMIDE								
TRICHLOROFLUOROMETHANE							< .5	< .5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE								
DICHLORODIFLUOROMETHANE							< .5	< .5
2-HEXANONE								

Volatiles in Groundwater
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	WELL #16 (32-189)							
Location ID	687-PG-016							
Sampe ID	GP880015	GP880110	GP880156	GP880192	GP890005	GP890013	GP890013	GP890032
Sample Date	880318	880624	880920	881019	890124	890124	890124	890530
Laboratory ID	88032309	88062908	88092308	65904	89012706	04420	4410	31230
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ISOPROPYLBENZENE (CUMENE)							< .5	< .5
METHYL ETHYL KETONE (2-BUTANONE)								
CRESOLS, m & p								
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)								
METHYLENE CHLORIDE							< .5	< .5
n-PROPYLBENZENE							< .5	< .5
1,1,2,2-TETRACHLOROETHANE					< 3		< .5	< .5
TETRACHLOROETHYLENE(PCE)					< 1		< .5	< .5
STYRENE					< 1		< .5	< .5
BROMOFORM					< 2		< .5	< .5
TRICHLOROBENZENE								
1,1,1,2-TETRACHLOROETHANE							< .5	< .5
1,1,1-TRICHLOROETHANE	< 3	< 3	< 3		< 1		< .5	< .5
1,1,2-TRICHLOROETHANE					< 1		< .5	< .5
1,2,3-TRICHLOROBENZENE							< .5	< .5
TRICHLOROETHYLENE (TCE)	< 1	< 1	< 1		< 1		< .5	< .5
CHLOROFORM			< 2		< 1		< .5	< .5
1,2,3-TRICHLOROPROPANE					< 1		< .5	< .5
1,2,4-TRIMETHYLBENZENE							< .5	< .5
1,3,5-TRIMETHYLBENZENE (MESITYLENE)							< .5	< .5
VINYL ACETATE								
VINYL CHLORIDE	< 1	< 1	< 2		< 1		< .5	< .5
VOLATILE AROMATIC SCREEN								
VOLATILE ORGANIC HALOCARBON SCREEN								
XYLENES, TOTAL								
XYLENENS1214								

Volatiles in Groundwater
Elmendorf AFB, Alaska
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Site Name	WELL #16							
Location ID	(32-189) 687-PG-016							
Sampe ID	GP880015	GP880110	GP880156	GP880192	GP890005	GP890013	GP890013	GP890032
Sample Date	880318	880624	880920	881019	890124	890124	890124	890530
Laboratory ID	88032309	88062908	88092308	65904	89012706	04420	4410	31230
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
M-XYLENE (1,3-DIMETHYLBENZENE)					< 1		< .5	< .5
M,P-XYLENE (SUM OF ISOMERS)								
O-XYLENE (1,2-DIMETHYLBENZENE)					< 1		< .5	< .5
P-XYLENE (1,4-DIMETHYLBENZENE)					< 1		< .5	< .5

<- less than detection limit

Volatiles in Groundwater
Elmendorf AFB, Alaska
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Site Name	WELL #16 (32-189)			WELL #2 (22-001)				
Location ID	687-PG-016			687-PG-002				
Sampe ID	GP890051	GP890103	GP890103	GP870511	GP880008	GP880109	GP880155	GP890004
Sample Date	890725	891218	891218	870721	880316	880624	880920	890124
Laboratory ID	89042558	021001	89070995	45586	88032302	88062907	88092307	89012705
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ACETONE								
ACROLEIN								
ACRYLONITRILE								
BROMODICHLOROMETHANE	< .4	1.6		< .1				< 1
BROMOBENZENE	< .6	< .6	< .6					< 1
BROMOCHLOROMETHANE	< .4	< .4						
BROMOFLUOROBENZENE-p								
BROMOMETHANE	< .9	< .9						< 5
n-BUTYLBENZENE	< .4		< .4					
SEC-BUTYLBENZENE	< .7		< .7					
t-BUTYLBENZENE	< .3		< .3					
BENZENE	< .3		< .3		< 1	< 1	< 1	< 1
TOLUENE	< .3		< .3					< 1
TOLUENE-D8								
CARBON DISULFIDE								
2-CHLOROETHYL VINYL ETHER								
CHLOROBENZENE	< .3	< .3	< .3					< 1
2-CHLOROTOLUENE	< .5	< .5	< .5					< 8
4-CHLOROTOLUENE	< .3	< .3	< .3					< 1
CHLORODIBROMOMETHANE	< .5	< .5						
CHLOROETHANE	< .9	< .9						< 2
CHLOROMETHANE	< .8	< .8						< 5
CARBON TETRACHLORIDE	< .5	< .5			< 3	< 3	< 3	< 1
P-CYMENE (p-ISOPROPYLTOLUENE)	< .3		< .3					
DIBROMOCHLOROMETHANE				< .1				< 1
1,2-DIBROMO-3-CHLOROPROPANE								
DIBROMOMETHANE	< .5	< .5						< 1

Volatiles in Groundwater
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	WELL #16 (32-189)			WELL #2 (22-001)				
Location ID	687-PG-016			687-PG-002				
Sampe ID	GP890051	GP890103	GP890103	GP870511	GP880008	GP880109	GP880155	GP890004
Sample Date	890725	891218	891218	870721	880316	880624	880920	890124
Laboratory ID	89042558	021001	89070995	45586	88032302	88062907	88092307	89012705
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,1-DICHLOROETHANE	< .4	< .5						< 1
1,2-DICHLOROETHANE	< .3	< .3			< 2	< 2	< 2	< 1
1,2-DICHLOROETHANE-D4								
1,1-DICHLOROETHENE	< .3	< .3			< 1	< 1	< 2	< 1
1,1,1-DICHLOROETHENE								
cis-1,2-DICHLOROETHYLENE	< .2							< 1
DCE12E		< .5						
trans-1,2-DICHLOROETHENE	< .5	< .5						< 2
1,2-DICHLOROETHENE(TOTAL)								
DICHLOROMETHANE								< 1
1,1-DICHLOROPROPENE	< .5							< 1
1,3-DICHLOROPROPYLENE (1,3-DICHLOROPROPENE MIXTURE)								
cis-1,3-DICHLOROPROPENE								< 1
trans-1,3-DICHLOROPROPENE								< 1
DCPA11		< .5						
1,2-DICHLOROPROPANE	< .3	< .3						< 1
1,3-DICHLOROPROPANE	< .5	< .5						< 2
2,2-DICHLOROPROPANE	< .5	< .5						< 1
ETHYLBENZENE	< .6		< .6					< 1
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)								
ETEDIBROMIDE								
TRICHLOROFLUOROMETHANE	< .4	< .4						
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE								
DICHLORODIFLUOROMETHANE	< .5	< .5						
2-HEXANONE								

Volatiles in Groundwater
Elmendorf AFB, Alaska
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Site Name	WELL #16			WELL #2				
Location ID	(32-189) 687-PG-016			(22-001) 687-PG-002				
Sampe ID	GP890051	GP890103	GP890103	GP870511	GP880008	GP880109	GP880155	GP890004
Sample Date	890725	891218	891218	870721	880316	880624	880920	890124
Laboratory ID	89042558	021001	89070995	45586	88032302	88062907	88092307	89012705
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ISOPROPYLBENZENE (CUMENE)	< .4		< .4					
METHYL ETHYL KETONE (2-BUTANONE)								
CRESOLS, m & p								
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)								
METHYLENE CHLORIDE	< .4	< .4						
n-PROPYLBENZENE	< .4		< .4					
1,1,2,2-TETRACHLOROETHANE	< .2	< .2						< 3
TETRACHLOROETHYLENE(PCE)	< .6	< .6	< .6					< 1
STYRENE	< .3		< .3					< 1
BROMOFORM	< .7	< .7		< .1				< 2
TRICHLOROBENZENE								
1,1,1,2-TETRACHLOROETHANE	< .2	< .2						
1,1,1-TRICHLOROETHANE	< .5	< .5			< 3	< 3	< 3	< 1
1,1,2-TRICHLOROETHANE	< .2	< .2						< 1
1,2,3-TRICHLOROBENZENE	< .7		< .7					
TRICHLOROETHYLENE (TCE)	< .5	< .5	< .5		< 1	< 1	< 1	< 1
CHLOROFORM	< .3	50		< .1			< 2	< 1
1,2,3-TRICHLOROPROPANE	< .3	< .3						< 1
1,2,4-TRIMETHYLBENZENE	< .1		< .1					
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	< .3		< .3					
VINYL ACETATE								
VINYL CHLORIDE	< .9	< .2			< 1	< 1	< 2	< 1
VOLATILE AROMATIC SCREEN								
VOLATILE ORGANIC HALOCARBON SCREEN								
XYLENES, TOTAL								
XYLENENS1214								

Volatiles in Groundwater
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	WELL #16 (32-189)			WELL #2 (22-001)				
Location ID	687-PG-016			687-PG-002				
Sampe ID	GP890051	GP890103	GP890103	GP870511	GP880008	GP880109	GP880155	GP890004
Sample Date	890725	891218	891218	870721	880316	880624	880920	890124
Laboratory ID	89042558	021001	89070995	45586	88032302	88062907	88092307	89012705
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
M-XYLENE (1,3-DIMETHYLBENZENE)	< .3		< .3					< 1
M,P-XYLENE (SUM OF ISOMERS)								
O-XYLENE (1,2-DIMETHYLBENZENE)	< .3		< .3					< 1
P-XYLENE (1,4-DIMETHYLBENZENE)	< .6		< .6					< 1

<- less than detection limit

Volatiles in Groundwater
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	WELL #2 (22-001)							WELL #24 (52-668)
Location ID	687-PG-002							687-PG-024
Sampe ID	GP890012	GP890012	GP890026	GP890053	GP890102	GP890102	GP912047	GP870514
Sample Date	890101	890101	890501	890725	891218	891218	910314	870721
Laboratory ID	04656	4650	31218	89042560	021001	89070994	91012671	45589
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ACETONE								
ACROLEIN								
ACRYLONITRILE								
BROMODICHLOROMETHANE		< .5	< .5	< .4	< .4		< .4	< .1
BROMOBENZENE		< .5	< .5	< .6	< .6	< .6	< .6	
BROMOCHLOROMETHANE		< .5	< .5	< .4	< .4		< .4	
BROMOFLUOROBENZENE-p								
BROMOMETHANE		< .5	< .5	< .9	< .9		< .9	
n-BUTYLBENZENE		< .5	< .5	< .4		< .4	< .4	
SEC-BUTYLBENZENE		< .5	< .5	< .7		< .7	< .7	
t-BUTYLBENZENE		< .5	< .5	< .3		< .3	< .3	
BENZENE		< .5	< .5	< .3		< .3	< .3	
TOLUENE		< .5	< .5	< .3		< .3	< .3	
TOLUENE-D8								
CARBON DISULFIDE								
2-CHLOROETHYL VINYL ETHER								
CHLOROBENZENE		< .5	< .5	< .3	< .3	< .3	< .3	
2-CHLOROTOLUENE		< .5	< .5	< .5	< .5	< .5	< .5	
4-CHLOROTOLUENE		< .5	< .5	< .3	< .3	< .3	< .3	
CHLORODIBROMOMETHANE		< .5	< .5	< .5	< .5		< .5	
CHLOROETHANE		< .5	< .5	< .9	< .9		< .9	
CHLOROMETHANE		< .5	< .5	< .8	< .8		< .8	
CARBON TETRACHLORIDE		< .5	< .5	< .5	< .5		< .5	
P-CYMENE (p-ISOPROPYLTOLUENE)		< .5	< .5	< .3		< .3	< .3	
DIBROMOCHLOROMETHANE								< .1
1,2-DIBROMO-3-CHLOROPROPANE	< .01							
DIBROMOMETHANE		< .5	< .5	< .5	< .5		< .5	

Volatiles in Groundwater
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	WELL #2							WELL #24
Location ID	(22-001) 687-PG-002							(52-668) 687-PG-024
Sampe ID	GP890012	GP890012	GP890026	GP890053	GP890102	GP890102	GP912047	GP870514
Sample Date	890101	890101	890501	890725	891218	891218	910314	870721
Laboratory ID	04656	4650	31218	89042560	021001	89070994	91012671	45589
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,1-DICHLOROETHANE		< .5	< .5	< .4	< .5		< .4	
1,2-DICHLOROETHANE		< .5	< .5	< .3	< .3		< .3	
1,2-DICHLOROETHANE-D4								
1,1-DICHLOROETHENE		< .5	< .5	< .3	< .3		< .3	
1,1,1-DICHLOROETHENE								
cis-1,2-DICHLOROETHYLENE		< .5	< .5	< .2			< .2	
DCE12E					< .5			
trans-1,2-DICHLOROETHENE		< .5	< .5	< .5	< .5		< .5	
1,2-DICHLOROETHENE(TOTAL)								
DICHLOROMETHANE								
1,1-DICHLOROPROPENE		< .5	< .5	< .5			< .5	
1,3-DICHLOROPROPYLENE (1,3-DICHLOROPROPENE MIXTURE)		< .5						
cis-1,3-DICHLOROPROPENE			< .5				< .5	
trans-1,3-DICHLOROPROPENE			< .5				< .5	
DCPA11					< .5			
1,2-DICHLOROPROPANE		< .5	< .5	< .3	< .3		< .3	
1,3-DICHLOROPROPANE		< .5	< .5	< .5	< .5		< .5	
2,2-DICHLOROPROPANE		< .5	< .5	< .5	< .5		< .5	
ETHYLBENZENE		< .5	< .5	< .6		< .6	< .6	
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	< .01							
ETEDIBROMIDE								
TRICHLOROFLUOROMETHANE		< .5	< .5	< .4	< .4		< .4	
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE								
DICHLORODIFLUOROMETHANE		< .5	< .5	< .5	< .5		< .5	
2-HEXANONE								

Volatiles in Groundwater
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	WELL #2 (22-001)							WELL #24 (52-668)
Location ID	687-PG-002							687-PG-024
Sampe ID	GP890012	GP890012	GP890026	GP890053	GP890102	GP890102	GP912047	GP870514
Sample Date	890101	890101	890501	890725	891218	891218	910314	870721
Laboratory ID	04656	4650	31218	89042560	021001	89070994	91012671	45589
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ISOPROPYLBENZENE (CUMENE)		< .5	< .5	< .4		< .4	< .4	
METHYL ETHYL KETONE (2-BUTANONE)								
CRESOLS, m & p								
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)								
METHYLENE CHLORIDE		< .5	< .5	< .4	< .4		< .4	
n-PROPYLBENZENE		< .5	< .5	< .4		< .4	< .4	
1,1,2,2-TETRACHLOROETHANE		< .5	< .5	< .2	< .2		< .2	
TETRACHLOROETHYLENE(PCE)		< .5	< .5	< .6	< .6	< .6	< .6	
STYRENE		< .5	< .5	< .3		< .3	< .3	
BROMOFORM		< .5	< .5	< .7	< .7		< .7	< .1
TRICHLOROBENZENE								
1,1,1,2-TETRACHLOROETHANE		< .5	< .5	< .2	< .2		< .2	
1,1,1-TRICHLOROETHANE		< .5	< .5	< .5	< .5		< .5	
1,1,2-TRICHLOROETHANE		< .5	< .5	< .2	< .2		< .2	
1,2,3-TRICHLOROBENZENE		< .5	< .5	< .7		< .7	< .7	
TRICHLOROETHYLENE (TCE)		< .5	< .5	< .5	< .5	< .5	< .5	
CHLOROFORM		< .5	< .5	< .3	< .3		< .6	< .1
1,2,3-TRICHLOROPROPANE		< .5	< .5	< .3	< .3		< .3	
1,2,4-TRIMETHYLBENZENE		< .5	< .5	< .1		< .1	< .1	
1,3,5-TRIMETHYLBENZENE (MESITYLENE)		< .5	< .5	< .3		< .3	< .3	
VINYL ACETATE								
VINYL CHLORIDE		< .5	< .5	< .9	< .2		< .2	
VOLATILE AROMATIC SCREEN								
VOLATILE ORGANIC HALOCARBON SCREEN								
XYLENES, TOTAL								
XYLENENS1214								

Volatiles in Groundwater
Elmendorf AFB, Alaska
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Site Name	WELL #2 (22-001)							WELL #24 (52-668)
Location ID	687-PG-002							687-PG-024
Sampe ID	GP890012	GP890012	GP890026	GP890053	GP890102	GP890102	GP912047	GP870514
Sample Date	890101	890101	890501	890725	891218	891218	910314	870721
Laboratory ID	04656	4650	31218	89042560	021001	89070994	91012671	45589
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
M-XYLENE (1,3-DIMETHYLBENZENE)		< .5	< .5	< .3		< .3	< .3	
M,P-XYLENE (SUM OF ISOMERS)								
O-XYLENE (1,2-DIMETHYLBENZENE)		< .5	< .5	< .3		< .3	< .3	
P-XYLENE (1,4-DIMETHYLBENZENE)		< .5	< .5	< .6		< .6	< .6	

<- less than detection limit

Volatiles in Groundwater
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	WELL #25 (63-320)		WELL #27 (62-250)				WELL #29 (42-500)	WELL #39 (35-750)
Location ID	687-PG-025		687-PG-027				687-PG-029	687-PG-039
Sampe ID	GP870663	GP870785	62-250-87	GP870524	WELL#27	WELL#27	GP870526	GP870527
Sample Date	870902	871104	870101	870727	880519	880519	870727	870727
Laboratory ID	58205	75597	62-250-87	47471	109701	109702	47473	47474
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ACETONE								
ACROLEIN								
ACRYLONITRILE								
BROMODICHLOROMETHANE	< .1	< .1		< .1	< 9.88		< .1	< .1
BROMOBENZENE								
BROMOCHLOROMETHANE								
BROMOFLUOROBENZENE-p								
BROMOMETHANE					< 1			
n-BUTYLBENZENE								
SEC-BUTYLBENZENE								
t-BUTYLBENZENE								
BENZENE						< 1		
TOLUENE						< 1		
TOLUENE-D8								
CARBON DISULFIDE								
2-CHLOROETHYL VINYL ETHER					< 1			
CHLOROBENZENE					< 1	< 1		
2-CHLOROTOLUENE								
4-CHLOROTOLUENE								
CHLORODIBROMOMETHANE								
CHLOROETHANE					< 1			
CHLOROMETHANE					< 1			
CARBON TETRACHLORIDE					< 1			
P-CYMENE (p-ISOPROPYLTOLUENE)								
DIBROMOCHLOROMETHANE	< .1	< .1		< .1	< 5.03		< .1	< .1
1,2-DIBROMO-3-CHLOROPROPANE								
DIBROMOMETHANE								

Volatiles in Groundwater
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	WELL #25 (63-320)		WELL #27 (62-250)				WELL #29 (42-500)	WELL #39 (35-750)
Location ID	687-PG-025		687-PG-027				687-PG-029	687-PG-039
Sampe ID	GP870663	GP870785	62-250-87	GP870524	WELL#27	WELL#27	GP870526	GP870527
Sample Date	870902	871104	870101	870727	880519	880519	870727	870727
Laboratory ID	58205	75597	62-250-87	47471	109701	109702	47473	47474
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,1-DICHLOROETHANE					< 1			
1,2-DICHLOROETHANE					< 1			
1,2-DICHLOROETHANE-D4								
1,1-DICHLOROETHENE					< 1			
1,1,1-DICHLOROETHENE								
cis-1,2-DICHLOROETHYLENE								
DCE12E								
trans-1,2-DICHLOROETHENE					< 1			
1,2-DICHLOROETHENE(TOTAL)								
DICHLOROMETHANE								
1,1-DICHLOROPROPENE								
1,3-DICHLOROPROPYLENE (1,3-DICHLOROPROPENE MIXTURE)								
cis-1,3-DICHLOROPROPENE					< 1			
trans-1,3-DICHLOROPROPENE					< 1			
DCPA11								
1,2-DICHLOROPROPANE					< 1			
1,3-DICHLOROPROPANE								
2,2-DICHLOROPROPANE								
ETHYLBENZENE						< 1		
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)								
ETEDIBROMIDE								
TRICHLOROFLUOROMETHANE					< 1			
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE								
DICHLORODIFLUOROMETHANE								
2-HEXANONE								

Volatiles in Groundwater
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	WELL #25 (63-320)		WELL #27 (62-250)				WELL #29 (42-500)	WELL #39 (35-750)
Location ID	687-PG-025		687-PG-027				687-PG-029	687-PG-039
Sampe ID	GP870663	GP870785	62-250-87	GP870524	WELL#27	WELL#27	GP870526	GP870527
Sample Date	870902	871104	870101	870727	880519	880519	870727	870727
Laboratory ID	58205	75597	62-250-87	47471	109701	109702	47473	47474
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ISOPROPYLBENZENE (CUMENE)								
METHYL ETHYL KETONE (2-BUTANONE)								
CRESOLS, m & p								
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)								
METHYLENE CHLORIDE					< 1			
n-PROPYLBENZENE								
1,1,2,2-TETRACHLOROETHANE					< 1			
TETRACHLOROETHYLENE(PCE)					< 1			
STYRENE								
BROMOFORM	< .1	< .1		< .1	< 1		< .1	< .1
TRICHLOROBENZENE								
1,1,1,2-TETRACHLOROETHANE								
1,1,1-TRICHLOROETHANE					< 1			
1,1,2-TRICHLOROETHANE					< 1			
1,2,3-TRICHLOROBENZENE								
TRICHLOROETHYLENE (TCE)					< 1			
CHLOROFORM	< .1	< .1		1.8	< 18		1	11
1,2,3-TRICHLOROPROPANE								
1,2,4-TRIMETHYLBENZENE								
1,3,5-TRIMETHYLBENZENE (MESITYLENE)								
VINYL ACETATE								
VINYL CHLORIDE					< 1			
VOLATILE AROMATIC SCREEN			70					
VOLATILE ORGANIC HALOCARBON SCREEN			27.88					
XYLENES, TOTAL								
XYLENENS1214								

Volatiles in Groundwater
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	WELL #25 (63-320)		WELL #27 (62-250)				WELL #29 (42-500)	WELL #39 (35-750)
Location ID	687-PG-025		687-PG-027				687-PG-029	687-PG-039
Sampe ID	GP870663	GP870785	62-250-87	GP870524	WELL#27	WELL#27	GP870526	GP870527
Sample Date	870902	871104	870101	870727	880519	880519	870727	870727
Laboratory ID	58205	75597	62-250-87	47471	109701	109702	47473	47474
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
M-XYLENE (1,3-DIMETHYLBENZENE)								
M,P-XYLENE (SUM OF ISOMERS)						< 1		
O-XYLENE (1,2-DIMETHYLBENZENE)						< 1		
P-XYLENE (1,4-DIMETHYLBENZENE)								

<- less than detection limit

Volatiles in Groundwater
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	WELL #39 (35-750)							
Location ID	687-PG-039							
Sampe ID	GP880014	GP880105	GP880151	GP880197	GP890001	GP890009	GP890009	GP890028
Sample Date	880318	880624	880920	881019	890124	890124	890124	890530
Laboratory ID	88032308	88062903	88092303	65909	89012702	04418	4404	31222
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ACETONE								
ACROLEIN								
ACRYLONITRILE								
BROMODICHLOROMETHANE					< 1		< .5	< .5
BROMOBENZENE					< 1		< .5	< .5
BROMOCHLOROMETHANE							< .5	< .5
BROMOFLUOROBENZENE-p								
BROMOMETHANE					< 5		< .5	< .5
n-BUTYLBENZENE							< .5	< .5
SEC-BUTYLBENZENE							< .5	< .5
t-BUTYLBENZENE							< .5	< .5
BENZENE	< 1	< 1	< 1		< 1		< .5	< .5
TOLUENE					< 1		< .5	< .5
TOLUENE-D8								
CARBON DISULFIDE								
2-CHLOROETHYL VINYL ETHER								
CHLOROBENZENE					< 1		< .5	< .5
2-CHLOROTOLUENE					< 8		< .5	< .5
4-CHLOROTOLUENE					< 1		< .5	< .5
CHLORODIBROMOMETHANE							< .5	< .5
CHLOROETHANE					< 2		< .5	< .5
CHLOROMETHANE					< 5		< .5	< .5
CARBON TETRACHLORIDE	< 3	< 3	< 3		< 1		< .5	< .5
P-CYMENE (p-ISOPROPYLTOLUENE)							< .5	< .5
DIBROMOCHLOROMETHANE					< 1			
1,2-DIBROMO-3-CHLOROPROPANE				< .01		< .01		
DIBROMOMETHANE					< 1		< .5	< .5

Volatiles in Groundwater
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	WELL #39 (35-750)							
Location ID	687-PG-039							
Sampe ID	GP880014	GP880105	GP880151	GP880197	GP890001	GP890009	GP890009	GP890028
Sample Date	880318	880624	880920	881019	890124	890124	890124	890530
Laboratory ID	88032308	88062903	88092303	65909	89012702	04418	4404	31222
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,1-DICHLOROETHANE					< 1		< .5	< .5
1,2-DICHLOROETHANE	< 2	< 2	< 2		< 1		< .5	< .5
1,2-DICHLOROETHANE-D4								
1,1-DICHLOROETHENE	< 1	< 1	< 2		< 1		< .5	< .5
1,1,1-DICHLOROETHENE								
cis-1,2-DICHLOROETHYLENE					< 1		< .5	< .5
DCE12E								
trans-1,2-DICHLOROETHENE					< 2		< .5	< .5
1,2-DICHLOROETHENE(TOTAL)								
DICHLOROMETHANE					< 1			
1,1-DICHLOROPROPENE					< 1		< .5	< .5
1,3-DICHLOROPROPYLENE (1,3-DICHLOROPROPENE MIXTURE)							< .5	
cis-1,3-DICHLOROPROPENE					< 1			< .5
trans-1,3-DICHLOROPROPENE					< 1			< .5
DCPA11								
1,2-DICHLOROPROPANE					< 1		< .5	< .5
1,3-DICHLOROPROPANE					< 2		< .5	< .5
2,2-DICHLOROPROPANE					< 1		< .5	< .5
ETHYLBENZENE					< 1		< .5	< .5
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)				< .01		< .01		
ETEDIBROMIDE								
TRICHLOROFLUOROMETHANE							< .5	< .5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE								
DICHLORODIFLUOROMETHANE							< .5	< .5
2-HEXANONE								

Volatiles in Groundwater
Elmendorf AFB, Alaska
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Site Name	WELL #39 (35-750)							
Location ID	687-PG-039							
Sampe ID	GP880014	GP880105	GP880151	GP880197	GP890001	GP890009	GP890009	GP890028
Sample Date	880318	880624	880920	881019	890124	890124	890124	890530
Laboratory ID	88032308	88062903	88092303	65909	89012702	04418	4404	31222
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ISOPROPYLBENZENE (CUMENE)							< .5	< .5
METHYL ETHYL KETONE (2-BUTANONE)								
CRESOLS, m & p								
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)								
METHYLENE CHLORIDE							< .5	< .5
n-PROPYLBENZENE							< .5	< .5
1,1,2,2-TETRACHLOROETHANE					< 3		< .5	< .5
TETRACHLOROETHYLENE(PCE)					< 1		< .5	< .5
STYRENE					< 1		< .5	< .5
BROMOFORM					< 2		< .5	< .5
TRICHLOROBENZENE								
1,1,1,2-TETRACHLOROETHANE							< .5	< .5
1,1,1-TRICHLOROETHANE	< 3	< 3	< 3		< 1		< .5	< .5
1,1,2-TRICHLOROETHANE					< 1		< .5	< .5
1,2,3-TRICHLOROBENZENE							< .5	< .5
TRICHLOROETHYLENE (TCE)	< 1	< 1	< 1		< 1		< .5	< .5
CHLOROFORM			< 2		< 1		< .5	< .5
1,2,3-TRICHLOROPROPANE					< 1		< .5	< .5
1,2,4-TRIMETHYLBENZENE							< .5	< .5
1,3,5-TRIMETHYLBENZENE (MESITYLENE)							< .5	< .5
VINYL ACETATE								
VINYL CHLORIDE	< 1	< 1	< 2		< 1		< .5	< .5
VOLATILE AROMATIC SCREEN								
VOLATILE ORGANIC HALOCARBON SCREEN								
XYLENES, TOTAL								
XYLENENS1214								

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Site Name	WELL #39 (35-750)							
Location ID	687-PG-039							
Sampe ID	GP880014	GP880105	GP880151	GP880197	GP890001	GP890009	GP890009	GP890028
Sample Date	880318	880624	880920	881019	890124	890124	890124	890530
Laboratory ID	88032308	88062903	88092303	65909	89012702	04418	4404	31222
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
M-XYLENE (1,3-DIMETHYLBENZENE)					< 1		< .5	< .5
M,P-XYLENE (SUM OF ISOMERS)								
O-XYLENE (1,2-DIMETHYLBENZENE)					< 1		< .5	< .5
P-XYLENE (1,4-DIMETHYLBENZENE)					< 1		< .5	< .5

<- less than detection limit

Volatiles in Groundwater
Elmendorf AFB, Alaska
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Site Name	WELL #39 (35-750)			WELL #4 (63-600)				
Location ID	687-PG-039			687-PG-004				
Sampe ID	GP890052	GP890104	GP890104	63-600-87	GP870657	GP870689	GP870690	GP870786
Sample Date	890725	891218	891218	870101	870901	870917	870917	871104
Laboratory ID	89042559	021001	89070996	63-600-87	50204	61452	61453	75598
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ACETONE								
ACROLEIN								
ACRYLONITRILE								
BROMODICHLOROMETHANE	< .4	< .4			< .1	< .1		.5
BROMOBENZENE	< .6	< .6	< .6					
BROMOCHLOROMETHANE	< .4	< .4						
BROMOFLUOROBENZENE-p								
BROMOMETHANE	< .9	< .9			< 1	< 1		
n-BUTYLBENZENE	< .4		< .4					
SEC-BUTYLBENZENE	< .7		< .7					
t-BUTYLBENZENE	< .3		< .3					
BENZENE	< .3		< .3				< 1	
TOLUENE	< .3		< .3				< 1	
TOLUENE-D8								
CARBON DISULFIDE								
2-CHLOROETHYL VINYL ETHER					< 1	< 1		
CHLOROBENZENE	< .3	< .3	< .3		< .5	< .5	< 1	
2-CHLOROTOLUENE	< .5	< .5	< .5					
4-CHLOROTOLUENE	< .3	< .3	< .3					
CHLORODIBROMOMETHANE	< .5	< .5						
CHLOROETHANE	< .9	< .9			< .1	< .1		
CHLOROMETHANE	< .8	< .8			< .1	.5		
CARBON TETRACHLORIDE	< .5	< .5			< .2	< .2		
P-CYMENE (p-ISOPROPYLTOLUENE)	< .3		< .3					
DIBROMOCHLOROMETHANE					< .2	< .2		< .1
1,2-DIBROMO-3-CHLOROPROPANE								
DIBROMOMETHANE	< .5	< .5						

Volatiles in Groundwater
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Site Name	WELL #39 (35-750)			WELL #4 (63-600)				
Location ID	687-PG-039			687-PG-004				
Sampe ID	GP890052	GP890104	GP890104	63-600-87	GP870657	GP870689	GP870690	GP870786
Sample Date	890725	891218	891218	870101	870901	870917	870917	871104
Laboratory ID	89042559	021001	89070996	63-600-87	50204	61452	61453	75598
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,1-DICHLOROETHANE	< .4	< .5			< .2	< .2		
1,2-DICHLOROETHANE	< .3	< .3			< .1	< .1		
1,2-DICHLOROETHANE-D4								
1,1-DICHLOROETHENE	< .3	< .3			< .1	< .1		
1,1,1-DICHLOROETHENE								
cis-1,2-DICHLOROETHYLENE	< .2							
DCE12E		< .5						
trans-1,2-DICHLOROETHENE	< .5	< .5			< .1	< .1		
1,2-DICHLOROETHENE(TOTAL)								
DICHLOROMETHANE								
1,1-DICHLOROPROPENE	< .5							
1,3-DICHLOROPROPYLENE (1,3-DICHLOROPROPENE MIXTURE)								
cis-1,3-DICHLOROPROPENE					< .2	< .2		
trans-1,3-DICHLOROPROPENE					< .2	< .2		
DCPA11		< .5						
1,2-DICHLOROPROPANE	< .3	< .3			< .2	< .2		
1,3-DICHLOROPROPANE	< .5	< .5						
2,2-DICHLOROPROPANE	< .5	< .5						
ETHYLBENZENE	< .6		< .6				< 1	
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)								
ETEDIBROMIDE								
TRICHLOROFLUOROMETHANE	< .4	< .4			< .1	< .1		
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE								
DICHLORODIFLUOROMETHANE	< .5	< .5			< .2	< .2		
2-HEXANONE								

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Site Name	WELL #39 (35-750)			WELL #4 (63-600)				
Location ID	687-PG-039			687-PG-004				
Sampe ID	GP890052	GP890104	GP890104	63-600-87	GP870657	GP870689	GP870690	GP870786
Sample Date	890725	891218	891218	870101	870901	870917	870917	871104
Laboratory ID	89042559	021001	89070996	63-600-87	50204	61452	61453	75598
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ISOPROPYLBENZENE (CUMENE)	< .4		< .4					
METHYL ETHYL KETONE (2-BUTANONE)								
CRESOLS, m & p								
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)								
METHYLENE CHLORIDE	< .4	< .4			5240.2	< .1		
n-PROPYLBENZENE	< .4		< .4					
1,1,2,2-TETRACHLOROETHANE	< .2	< .2			< .1	< .1		
TETRACHLOROETHYLENE(PCE)	< .6	< .6	< .6		< .1	< .1		
STYRENE	< .3		< .3					
BROMOFORM	< .7	< .7			< .2	< .2		< .1
TRICHLOROBENZENE								
1,1,1,2-TETRACHLOROETHANE	< .2	< .2						
1,1,1-TRICHLOROETHANE	< .5	< .5			< .1	< .1		
1,1,2-TRICHLOROETHANE	< .2	< .2			< .1	< .1		
1,2,3-TRICHLOROBENZENE	< .7		< .7					
TRICHLOROETHYLENE (TCE)	< .5	< .5	< .5		< .1	.3		
CHLOROFORM	< .3	< .3			< .1	< .1		52
1,2,3-TRICHLOROPROPANE	< .3	< .3						
1,2,4-TRIMETHYLBENZENE	< .1		< .1					
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	< .3		< .3					
VINYL ACETATE								
VINYL CHLORIDE	< .9	< .2			< .2	< .2		
VOLATILE AROMATIC SCREEN				ND				
VOLATILE ORGANIC HALOCARBON SCREEN				.8				
XYLENES, TOTAL								
XYLENENS1214								

Volatiles in Groundwater
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Site Name	WELL #39 (35-750)			WELL #4 (63-600)				
Location ID	687-PG-039			687-PG-004				
Sampe ID	GP890052	GP890104	GP890104	63-600-87	GP870657	GP870689	GP870690	GP870786
Sample Date	890725	891218	891218	870101	870901	870917	870917	871104
Laboratory ID	89042559	021001	89070996	63-600-87	50204	61452	61453	75598
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
M-XYLENE (1,3-DIMETHYLBENZENE)	< .3		< .3					
M,P-XYLENE (SUM OF ISOMERS)								
O-XYLENE (1,2-DIMETHYLBENZENE)	< .3		< .3					
P-XYLENE (1,4-DIMETHYLBENZENE)	< .6		< .6					

<- less than detection limit

Volatiles in Groundwater
Elmendorf AFB, Alaska
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Site Name	WELL #40 (5-800)							
Location ID	687-PG-040							
Sampe ID	GP870528	GP880009	GP880108	GP880154	GP880193	GP890003	GP890011	GP890011
Sample Date	870727	880316	880624	880920	881019	890124	890124	890124
Laboratory ID	47475	88032303	88062906	88092306	65905	89012704	04655	4647
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ACETONE								
ACROLEIN								
ACRYLONITRILE								
BROMODICHLOROMETHANE	< .1					< 1		< .5
BROMOBENZENE						< 1		< .5
BROMOCHLOROMETHANE								< .5
BROMOFLUOROBENZENE-p								
BROMOMETHANE						< 5		< .5
n-BUTYLBENZENE								< .5
SEC-BUTYLBENZENE								< .5
t-BUTYLBENZENE								< .5
BENZENE		< 1	< 1	< 1		< 1		< .5
TOLUENE						< 1		< .5
TOLUENE-D8								
CARBON DISULFIDE								
2-CHLOROETHYL VINYL ETHER								
CHLOROBENZENE						< 1		< .5
2-CHLOROTOLUENE						< 8		< .5
4-CHLOROTOLUENE						< 1		< .5
CHLORODIBROMOMETHANE								< .5
CHLOROETHANE						< 2		< .5
CHLOROMETHANE						< 5		< .5
CARBON TETRACHLORIDE		< 3	< 3	< 3		< 1		< .5
P-CYMENE (p-ISOPROPYLTOLUENE)								< .5
DIBROMOCHLOROMETHANE	< .1					< 1		
1,2-DIBROMO-3-CHLOROPROPANE					< .01		< .01	
DIBROMOMETHANE						< 1		< .5

Volatiles in Groundwater
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Bioenvironmental Services

Site Name	WELL #40 (5-800)							
Location ID	687-PG-040							
Sampe ID	GP870528	GP880009	GP880108	GP880154	GP880193	GP890003	GP890011	GP890011
Sample Date	870727	880316	880624	880920	881019	890124	890124	890124
Laboratory ID	47475	88032303	88062906	88092306	65905	89012704	04655	4647
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,1-DICHLOROETHANE						< 1		< .5
1,2-DICHLOROETHANE		< 2	< 2	< 2		< 1		< .5
1,2-DICHLOROETHANE-D4								
1,1-DICHLOROETHENE		< 1	< 1	< 2		< 1		< .5
1,1,1-DICHLOROETHENE								
cis-1,2-DICHLOROETHYLENE						< 1		< .5
DCE12E								
trans-1,2-DICHLOROETHENE						< 2		< .5
1,2-DICHLOROETHENE(TOTAL)								
DICHLOROMETHANE						< 1		
1,1-DICHLOROPROPENE						< 1		< .5
1,3-DICHLOROPROPYLENE (1,3-DICHLOROPROPENE MIXTURE)								< .5
cis-1,3-DICHLOROPROPENE						< 1		
trans-1,3-DICHLOROPROPENE						< 1		
DCPA11								
1,2-DICHLOROPROPANE						< 1		< .5
1,3-DICHLOROPROPANE						< 2		< .5
2,2-DICHLOROPROPANE						< 1		< .5
ETHYLBENZENE						< 1		< .5
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)					< .01		< .01	
ETEDIBROMIDE								
TRICHLOROFLUOROMETHANE								< .5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE								
DICHLORODIFLUOROMETHANE								< .5
2-HEXANONE								

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Site Name	WELL #40 (5-800)							
Location ID	687-PG-040							
Sampe ID	GP870528	GP880009	GP880108	GP880154	GP880193	GP890003	GP890011	GP890011
Sample Date	870727	880316	880624	880920	881019	890124	890124	890124
Laboratory ID	47475	88032303	88062906	88092306	65905	89012704	04655	4647
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ISOPROPYLBENZENE (CUMENE)								< .5
METHYL ETHYL KETONE (2-BUTANONE)								
CRESOLS, m & p								
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)								
METHYLENE CHLORIDE								< .5
n-PROPYLBENZENE								< .5
1,1,2,2-TETRACHLOROETHANE						< 3		< .5
TETRACHLOROETHYLENE(PCE)						< 1		< .5
STYRENE						< 1		< .5
BROMOFORM	< .1					< 2		< .5
TRICHLOROBENZENE								
1,1,1,2-TETRACHLOROETHANE								< .5
1,1,1-TRICHLOROETHANE		< 3	< 3	< 3		< 1		< .5
1,1,2-TRICHLOROETHANE						< 1		< .5
1,2,3-TRICHLOROBENZENE								< .5
TRICHLOROETHYLENE (TCE)		< 1	< 1	< 1		< 1		< .5
CHLOROFORM	3.4			3.3		2		1.6
1,2,3-TRICHLOROPROPANE						< 1		< .5
1,2,4-TRIMETHYLBENZENE								< .5
1,3,5-TRIMETHYLBENZENE (MESITYLENE)								< .5
VINYL ACETATE								
VINYL CHLORIDE		< 1	< 1	< 2		< 1		< .5
VOLATILE AROMATIC SCREEN								
VOLATILE ORGANIC HALOCARBON SCREEN								
XYLENES, TOTAL								
XYLENENS1214								

Volatiles in Groundwater
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Site Name	WELL #40 (5-800)							
Location ID	687-PG-040							
Sampe ID	GP870528	GP880009	GP880108	GP880154	GP880193	GP890003	GP890011	GP890011
Sample Date	870727	880316	880624	880920	881019	890124	890124	890124
Laboratory ID	47475	88032303	88062906	88092306	65905	89012704	04655	4647
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
M-XYLENE (1,3-DIMETHYLBENZENE)						< 1		< .5
M,P-XYLENE (SUM OF ISOMERS)								
O-XYLENE (1,2-DIMETHYLBENZENE)						< 1		< .5
P-XYLENE (1,4-DIMETHYLBENZENE)						< 1		< .5

<- less than detection limit

Volatiles in Groundwater
Elmendorf AFB, Alaska
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Site Name	WELL #40 (5-800)					WELL #42 (11-200)		
Location ID	687-PG-040					687-PG-042		
Sampe ID	GP890030	GP890050	GP890105	GP890105	GP912048	GP870558	GP880010	GP880107
Sample Date	890530	890725	891218	891218	910314	870805	880316	880624
Laboratory ID	31226	89042557	021001	89070997	91012672	50315	88032304	88062905
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ACETONE								
ACROLEIN								
ACRYLONITRILE								
BROMODICHLOROMETHANE	< .5	< .4	< .4		< .4	< .1		
BROMOBENZENE	< .5	< .6	< .6	< .6	< .6			
BROMOCHLOROMETHANE	< .5	< .4	< .4		< .4			
BROMOFLUOROBENZENE-p								
BROMOMETHANE	< .5	< .9	< .9		< .9			
n-BUTYLBENZENE	< .5	< .4		< .4	< .4			
SEC-BUTYLBENZENE	< .5	< .7		< .7	< .7			
t-BUTYLBENZENE	< .5	< .3		< .3	< .3			
BENZENE	< .5	< .3		< .3	< .3		< 1	< 1
TOLUENE	< .5	< .3		< .3	< .3			
TOLUENE-D8								
CARBON DISULFIDE								
2-CHLOROETHYL VINYL ETHER								
CHLOROBENZENE	< .5	< .3	< .3	< .3	< .3			
2-CHLOROTOLUENE	< .5	< .5	< .5	< .5	< .5			
4-CHLOROTOLUENE	< .5	< .3	< .3	< .3	< .3			
CHLORODIBROMOMETHANE	< .5	< .5	< .5		< .5			
CHLOROETHANE	< .5	< .9	< .9		< .9			
CHLOROMETHANE	< .5	< .8	< .8		< .8			
CARBON TETRACHLORIDE	< .5	< .5	< .5		< .5		< 3	< 3
P-CYMENE (p-ISOPROPYLTOLUENE)	< .5	< .3		< .3	< .3			
DIBROMOCHLOROMETHANE						< .1		
1,2-DIBROMO-3-CHLOROPROPANE								
DIBROMOMETHANE	< .5	< .5	< .5		< .5			

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Elmendorf AFB, Alaska
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Site Name	WELL #40					WELL #42		
Location ID	(5-800) 687-PG-040					(11-200) 687-PG-042		
Sampe ID	GP890030	GP890050	GP890105	GP890105	GP912048	GP870558	GP880010	GP880107
Sample Date	890530	890725	891218	891218	910314	870805	880316	880624
Laboratory ID	31226	89042557	021001	89070997	91012672	50315	88032304	88062905
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,1-DICHLOROETHANE	< .5	< .4	< .5		< .4			
1,2-DICHLOROETHANE	< .5	< .3	< .3		< .3		< 2	< 2
1,2-DICHLOROETHANE-D4								
1,1-DICHLOROETHENE	< .5	< .3	< .3		< .3		< 1	< 1
1,1,1-DICHLOROETHENE								
cis-1,2-DICHLOROETHYLENE	< .5	< .2			< .2			
DCE12E			< .5					
trans-1,2-DICHLOROETHENE	< .5	< .5	< .5		< .5			
1,2-DICHLOROETHENE(TOTAL)								
DICHLOROMETHANE								
1,1-DICHLOROPROPENE	< .5	< .5			< .5			
1,3-DICHLOROPROPYLENE (1,3-DICHLOROPROPENE MIXTURE)								
cis-1,3-DICHLOROPROPENE	< .5				< .5			
trans-1,3-DICHLOROPROPENE	< .5				< .5			
DCPA11			< .5					
1,2-DICHLOROPROPANE	< .5	< .3	< .3		< .3			
1,3-DICHLOROPROPANE	< .5	< .5	< .5		< .5			
2,2-DICHLOROPROPANE	< .5	< .5	< .5		< .5			
ETHYLBENZENE	< .5	< .6		< .6	< .6			
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)								
ETEDIBROMIDE								
TRICHLOROFLUOROMETHANE	< .5	< .4	< .4		< .4			
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE								
DICHLORODIFLUOROMETHANE	< .5	< .5	< .5		< .5			
2-HEXANONE								

Volatiles in Groundwater
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	WELL #40					WELL #42		
Location ID	(5-800) 687-PG-040					(11-200) 687-PG-042		
Sampe ID	GP890030	GP890050	GP890105	GP890105	GP912048	GP870558	GP880010	GP880107
Sample Date	890530	890725	891218	891218	910314	870805	880316	880624
Laboratory ID	31226	89042557	021001	89070997	91012672	50315	88032304	88062905
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ISOPROPYLBENZENE (CUMENE)	< .5	< .4		< .4	< .4			
METHYL ETHYL KETONE (2-BUTANONE)								
CRESOLS, *m* & *p*								
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)								
METHYLENE CHLORIDE	< .5	< .4	< .4		< .4			
n-PROPYLBENZENE	< .5	< .4		< .4	< .4			
1,1,2,2-TETRACHLOROETHANE	< .5	< .2	< .2		< .2			
TETRACHLOROETHYLENE(PCE)	< .5	< .6	< .6	< .6	< .6			
STYRENE	< .5	< .3		< .3	< .3			
BROMOFORM	< .5	< .7	< .7		< .7	< .1		
TRICHLOROBENZENE								
1,1,1,2-TETRACHLOROETHANE	< .5	< .2	< .2		< .2			
1,1,1-TRICHLOROETHANE	< .5	< .5	< .5		< .5		< 3	< 3
1,1,2-TRICHLOROETHANE	< .5	< .2	< .2		< .2			
1,2,3-TRICHLOROBENZENE	< .5	< .7		< .7	< .7			
TRICHLOROETHYLENE (TCE)	< .5	< .5	< .5	< .5	< .5		< 1	< 1
CHLOROFORM	1.8	3.5	< .3		.9	.8		
1,2,3-TRICHLOROPROPANE	< .5	< .3	< .3		< .3			
1,2,4-TRIMETHYLBENZENE	< .5	< .1		< .1	< .1			
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	< .5	< .3		< .3	< .3			
VINYL ACETATE								
VINYL CHLORIDE	< .5	< .9	< .2		< .2		< 1	< 1
VOLATILE AROMATIC SCREEN								
VOLATILE ORGANIC HALOCARBON SCREEN								
XYLENES, TOTAL								
XYLENENS1214								

Volatiles in Groundwater
Elmendorf AFB, Alaska
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Site Name	WELL #40 (5-800)					WELL #42 (11-200)		
Location ID	687-PG-040					687-PG-042		
Sampe ID	GP890030	GP890050	GP890105	GP890105	GP912048	GP870558	GP880010	GP880107
Sample Date	890530	890725	891218	891218	910314	870805	880316	880624
Laboratory ID	31226	89042557	021001	89070997	91012672	50315	88032304	88062905
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
M-XYLENE (1,3-DIMETHYLBENZENE)	< .5	< .3		< .3	< .3			
M,P-XYLENE (SUM OF ISOMERS)								
O-XYLENE (1,2-DIMETHYLBENZENE)	< .5	< .3		< .3	< .3			
P-XYLENE (1,4-DIMETHYLBENZENE)	< .5	< .6		< .6	< .6			

<- less than detection limit

Volatiles in Groundwater
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	WELL #42 (11-200)						WELLO #43 (24-800)	
Location ID	687-PG-042						687-PG-043	
Sampe ID	GP880153	GP880194	GP890029	GP890049	GP890106	GP890106	GP870559	GP880011
Sample Date	880920	881019	890530	890725	891218	891218	870805	880316
Laboratory ID	88092305	65906	31224	89042556	021001	89070998	50316	88032305
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ACETONE								
ACROLEIN								
ACRYLONITRILE								
BROMODICHLOROMETHANE			< .5	< .4	< .4		< .1	
BROMOBENZENE			< .5	< .6	< .6	< .6		
BROMOCHLOROMETHANE			< .5	< .4	< .4			
BROMOFLUOROBENZENE-p								
BROMOMETHANE			< .5	< .9	< .9			
n-BUTYLBENZENE			< .5	< .4		< .4		
SEC-BUTYLBENZENE			< .5	< .7		< .7		
t-BUTYLBENZENE			< .5	< .3		< .3		
BENZENE	< 1		< .5	< .3		< .3		< 1
TOLUENE			< .5	< .3		< .3		
TOLUENE-D8								
CARBON DISULFIDE								
2-CHLOROETHYL VINYL ETHER								
CHLOROBENZENE			< .5	< .3	< .3	< .3		
2-CHLOROTOLUENE			< .5	< .5	< .5	< .5		
4-CHLOROTOLUENE			< .5	< .3	< .3	< .3		
CHLORODIBROMOMETHANE			< .5	< .5	< .5			
CHLOROETHANE			< .5	< .9	< .9			
CHLOROMETHANE			< .5	< .8	< .8			
CARBON TETRACHLORIDE	< 3		< .5	< .5	< .5			< 3
P-CYMENE (p-ISOPROPYLTOLUENE)			< .5	< .3		< .3		
DIBROMOCHLOROMETHANE							< .1	
1,2-DIBROMO-3-CHLOROPROPANE		< .01						
DIBROMOMETHANE			< .5	< .5	< .5			

Volatiles in Groundwater
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	WELL #42 (11-200)						WELLO #43 (24-800)	
Location ID	687-PG-042						687-PG-043	
Sampe ID	GP880153	GP880194	GP890029	GP890049	GP890106	GP890106	GP870559	GP880011
Sample Date	880920	881019	890530	890725	891218	891218	870805	880316
Laboratory ID	88092305	65906	31224	89042556	021001	89070998	50316	88032305
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,1-DICHLOROETHANE			< .5	< .4	< .5			
1,2-DICHLOROETHANE	< 2		< .5	< .3	< .3			< 2
1,2-DICHLOROETHANE-D4								
1,1-DICHLOROETHENE	< 2		< .5	< .3	< .3			< 1
1,1,1-DICHLOROETHENE								
cis-1,2-DICHLOROETHYLENE			< .5	< .2				
DCE12E					< .5			
trans-1,2-DICHLOROETHENE			< .5	< .5	< .5			
1,2-DICHLOROETHENE(TOTAL)								
DICHLOROMETHANE								
1,1-DICHLOROPROPENE			< .5	< .5				
1,3-DICHLOROPROPYLENE (1,3-DICHLOROPROPENE MIXTURE)								
cis-1,3-DICHLOROPROPENE			< .5					
trans-1,3-DICHLOROPROPENE			< .5					
DCPA11					< .5			
1,2-DICHLOROPROPANE			< .5	< .3	< .3			
1,3-DICHLOROPROPANE			< .5	< .5	< .5			
2,2-DICHLOROPROPANE			< .5	< .5	< .5			
ETHYLBENZENE			< .5	< .6		< .6		
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)		< .01						
ETEDIBROMIDE								
TRICHLOROFLUOROMETHANE			< .5	< .4	< .4			
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE								
DICHLORODIFLUOROMETHANE			< .5	< .5	< .5			
2-HEXANONE								

Volatiles in Groundwater
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	WELL #42						WELLO #43	
Location ID	(11-200) 687-PG-042						(24-800) 687-PG-043	
Sampe ID	GP880153	GP880194	GP890029	GP890049	GP890106	GP890106	GP870559	GP880011
Sample Date	880920	881019	890530	890725	891218	891218	870805	880316
Laboratory ID	88092305	65906	31224	89042556	021001	89070998	50316	88032305
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ISOPROPYLBENZENE (CUMENE)			< .5	< .4		< .4		
METHYL ETHYL KETONE (2-BUTANONE)								
CRESOLS, m & p								
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)								
METHYLENE CHLORIDE			< .5	< .4	< .4			
n-PROPYLBENZENE			< .5	< .4		< .4		
1,1,2,2-TETRACHLOROETHANE			< .5	< .2	< .2			
TETRACHLOROETHYLENE(PCE)			< .5	< .6	< .6	< .6		
STYRENE			< .5	< .3		< .3		
BROMOFORM			< .5	< .7	< .7		< .1	
TRICHLOROBENZENE								
1,1,1,2-TETRACHLOROETHANE			< .5	< .2	< .2			
1,1,1-TRICHLOROETHANE	< 3		< .5	< .5	< .5			< 3
1,1,2-TRICHLOROETHANE			< .5	< .2	< .2			
1,2,3-TRICHLOROBENZENE			< .5	< .7		< .7		
TRICHLOROETHYLENE (TCE)	< 1		< .5	< .5	< .5	< .5		< 1
CHLOROFORM	< 2		15	< .3	.88		10.1	
1,2,3-TRICHLOROPROPANE			< .5	< .3	< .3			
1,2,4-TRIMETHYLBENZENE			< .5	< .1		< .1		
1,3,5-TRIMETHYLBENZENE (MESITYLENE)			< .5	< .3		< .3		
VINYL ACETATE								
VINYL CHLORIDE	< 2		< .5	< .9	< .2			< 1
VOLATILE AROMATIC SCREEN								
VOLATILE ORGANIC HALOCARBON SCREEN								
XYLENES, TOTAL								
XYLENENS1214								

Volatiles in Groundwater
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	WELL #42 (11-200)						WELLO #43 (24-800)	
Location ID	687-PG-042						687-PG-043	
Sampe ID	GP880153	GP880194	GP890029	GP890049	GP890106	GP890106	GP870559	GP880011
Sample Date	880920	881019	890530	890725	891218	891218	870805	880316
Laboratory ID	88092305	65906	31224	89042556	021001	89070998	50316	88032305
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
M-XYLENE (1,3-DIMETHYLBENZENE)			< .5	< .3		< .3		
M,P-XYLENE (SUM OF ISOMERS)								
O-XYLENE (1,2-DIMETHYLBENZENE)			< .5	< .3		< .3		
P-XYLENE (1,4-DIMETHYLBENZENE)			< .5	< .6		< .6		

<- less than detection limit

Volatiles in Groundwater
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	WELL #43 (24-800)							
Location ID	687-PG-043							
Sampe ID	GP880104	GP880150	GP880195	GP890006	GP890014	GP890014	GP890033	GP890048
Sample Date	880624	880920	881019	890124	890124	890124	890530	890725
Laboratory ID	88062902	88092302	65907	89012707	04421	4413	31232	89044539
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ACETONE								
ACROLEIN								
ACRYLONITRILE								
BROMODICHLOROMETHANE				< 1		< .5	< .5	< .4
BROMOBENZENE				< 1		< .5	< .5	< .6
BROMOCHLOROMETHANE						< .5	< .5	< .4
BROMOFLUOROBENZENE-p								
BROMOMETHANE				< 5		< .5	< .5	< .9
n-BUTYLBENZENE						< .5	< .5	< .4
SEC-BUTYLBENZENE						< .5	< .5	< .7
t-BUTYLBENZENE						< .5	< .5	< .3
BENZENE	< 1	< 1		< 1		< .5	< .5	< .3
TOLUENE				< 1		< .5	< .5	< .3
TOLUENE-D8								
CARBON DISULFIDE								
2-CHLORQETHYL VINYL ETHER								
CHLOROBENZENE				< 1		< .5	< .5	< .3
2-CHLOROTOLUENE				< 8		< .5	< .5	< .5
4-CHLOROTOLUENE				< 1		< .5	< .5	< .3
CHLORODIBROMOMETHANE						< .5	< .5	< .5
CHLOROETHANE				< 2		< .5	< .5	< .9
CHLOROMETHANE				< 5		< .5	< .5	< .8
CARBON TETRACHLORIDE	< 3	< 3		< 1		< .5	< .5	< .5
P-CYMENE (p-ISOPROPYLTOLUENE)						< .5	< .5	< .3
DIBROMOCHLOROMETHANE				< 1				
1,2-DIBROMO-3-CHLOROPROPANE			< .01		< .01			
DIBROMOMETHANE				< 1		< .5	< .5	< .5

Volatiles in Groundwater
Elmendorf AFB, Alaska
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Site Name	WELL #43 (24-800)							
Location ID	687-PG-043							
Sampe ID	GP880104	GP880150	GP880195	GP890006	GP890014	GP890014	GP890033	GP890048
Sample Date	880624	880920	881019	890124	890124	890124	890530	890725
Laboratory ID	88062902	88092302	65907	89012707	04421	4413	31232	89044539
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,1-DICHLOROETHANE				< 1		< .5	< .5	1.1
1,2-DICHLOROETHANE	< 2	< 2		< 1		< .5	< .5	< .3
1,2-DICHLOROETHANE-D4								
1,1-DICHLOROETHENE	< 1	< 2		< 1		< .5	< .5	< .3
1,1,1-DICHLOROETHENE								
cis-1,2-DICHLOROETHYLENE				< 1		< .5	< .5	< .2
DCE12E								
trans-1,2-DICHLOROETHENE				< 2		< .5	< .5	< .5
1,2-DICHLOROETHENE(TOTAL)								
DICHLOROMETHANE				< 1				
1,1-DICHLOROPROPENE				< 1		< .5	< .5	< .5
1,3-DICHLOROPROPYLENE (1,3-DICHLOROPROPENE MIXTURE)						< .5		
cis-1,3-DICHLOROPROPENE				< 1			< .5	
trans-1,3-DICHLOROPROPENE				< 1			< .5	
DCPA11								
1,2-DICHLOROPROPANE				< 1		< .5	< .5	< .3
1,3-DICHLOROPROPANE				< 2		< .5	< .5	< .5
2,2-DICHLOROPROPANE				< 1		< .5	< .5	< .5
ETHYLBENZENE				< 1		< .5	< .5	< .6
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)			< .01		< .01			
ETEDIBROMIDE								
TRICHLOROFLUOROMETHANE						< .5	< .5	2.9
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE								
DICHLORODIFLUOROMETHANE						< .5	< .5	2.8
2-HEXANONE								

Volatiles in Groundwater
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Site Name	WELL #43 (24-800)							
Location ID	687-PG-043							
Sampe ID	GP880104	GP880150	GP880195	GP890006	GP890014	GP890014	GP890033	GP890048
Sample Date	880624	880920	881019	890124	890124	890124	890530	890725
Laboratory ID	88062902	88092302	65907	89012707	04421	4413	31232	89044539
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ISOPROPYLBENZENE (CUMENE)						< .5	< .5	< .4
METHYL ETHYL KETONE (2-BUTANONE)								
CRESOLS, m & p								
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)								
METHYLENE CHLORIDE						< .5	< .5	< .4
n-PROPYLBENZENE						< .5	< .5	< .4
1,1,2,2-TETRACHLOROETHANE				< 3		< .5	< .5	6.1
TETRACHLOROETHYLENE(PCE)				< 1		< .5	< .5	< .6
STYRENE				< 1		< .5	< .5	< .3
BROMOFORM				< 2		< .5	< .5	< .7
TRICHLOROBENZENE								
1,1,1,2-TETRACHLOROETHANE						< .5	< .5	< .2
1,1,1-TRICHLOROETHANE	< 3	< 3		< 1		< .5	< .5	< .5
1,1,2-TRICHLOROETHANE				< 1		< .5	< .5	< .2
1,2,3-TRICHLOROBENZENE						< .5	< .5	< .7
TRICHLOROETHYLENE (TCE)	< 1	< 1		< 1		< .5	< .5	< .5
CHLOROFORM		< 2		< 1		< .5	< .5	< .3
1,2,3-TRICHLOROPROPANE				< 1		< .5	< .5	< .3
1,2,4-TRIMETHYLBENZENE						< .5	< .5	< .1
1,3,5-TRIMETHYLBENZENE (MESITYLENE)						< .5	< .5	< .3
VINYL ACETATE								
VINYL CHLORIDE	< 1	< 2		< 1		< .5	< .5	< .9
VOLATILE AROMATIC SCREEN								
VOLATILE ORGANIC HALOCARBON SCREEN								
XYLENES, TOTAL								
XYLENENS1214								

Volatiles in Groundwater
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Site Name	WELL #43 (24-800)							
Location ID	687-PG-043							
Sampe ID	GP880104	GP880150	GP880195	GP890006	GP890014	GP890014	GP890033	GP890048
Sample Date	880624	880920	881019	890124	890124	890124	890530	890725
Laboratory ID	88062902	88092302	65907	89012707	04421	4413	31232	89044539
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
M-XYLENE (1,3-DIMETHYLBENZENE)				< 1		< .5	< .5	< .3
M,P-XYLENE (SUM OF ISOMERS)								
O-XYLENE (1,2-DIMETHYLBENZENE)				< 1		< .5	< .5	< .3
P-XYLENE (1,4-DIMETHYLBENZENE)				< 1		< .5	< .5	< .6

<- less than detection limit

Volatiles in Groundwater
Elmendorf AFB, Alaska
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Site Name	WELL #43 (24-800)		WELL #46 (63-621)	WELL #47 (630740)	WELL #49 (52-560)	WELL #50 (24-300)	WELL #51 (63-501)	WELL #53 (62-145)
Location ID	687-PG-043		687-PG-046	687-PG-047	687-PG-049	687-PG-050	687-PG-051	687-PG-053
Sampe ID	GP890107	GP890107	GP870562	GP870787	GP870561	GP870560	GP870575	GP870574
Sample Date	891218	891218	870805	871104	870805	870805	870811	870811
Laboratory ID	021001	89070999	50319	75599	50318	50317	52253	52252
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ACETONE								
ACROLEIN								
ACRYLONITRILE								
BROMODICHLOROMETHANE	6.7		< .1	< .1	< .1	< .1	< .1	2.7
BROMOBENZENE	< .6	< .6						
BROMOCHLOROMETHANE	< .4							
BROMOFLUOROBENZENE-p								
BROMOMETHANE	< .9							
n-BUTYLBENZENE		< .4						
SEC-BUTYLBENZENE		< .7						
t-BUTYLBENZENE		< .3						
BENZENE		< .3						
TOLUENE		< .3						
TOLUENE-D8								
CARBON DISULFIDE								
2-CHLOROETHYL VINYL ETHER								
CHLOROBENZENE	< .3	< .3						
2-CHLOROTOLUENE	< .5	< .5						
4-CHLOROTOLUENE	< .3	< .3						
CHLORODIBROMOMETHANE	< .5							
CHLOROETHANE	< .9							
CHLOROMETHANE	< .8							
CARBON TETRACHLORIDE	< .5							
P-CYMENE (p-ISOPROPYLTOLUENE)		< .3						
DIBROMOCHLOROMETHANE			< .1	< .1	< .1	< .1	< .1	< .1
1,2-DIBROMO-3-CHLOROPROPANE								
DIBROMOMETHANE	< .5							

Volatiles in Groundwater
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	WELL #43 (24-800)		WELL #46 (63-621)	WELL #47 (630740)	WELL #49 (52-560)	WELL #50 (24-300)	WELL #51 (63-501)	WELL #53 (62-145)
Location ID	687-PG-043		687-PG-046	687-PG-047	687-PG-049	687-PG-050	687-PG-051	687-PG-053
Sampe ID	GP890107	GP890107	GP870562	GP870787	GP870561	GP870560	GP870575	GP870574
Sample Date	891218	891218	870805	871104	870805	870805	870811	870811
Laboratory ID	021001	89070999	50319	75599	50318	50317	52253	52252
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,1-DICHLOROETHANE	< .5							
1,2-DICHLOROETHANE	< .3							
1,2-DICHLOROETHANE-D4								
1,1-DICHLOROETHENE	< .3							
1,1,1-DICHLOROETHENE								
cis-1,2-DICHLOROETHYLENE								
DCE12E	< .5							
trans-1,2-DICHLOROETHENE	< .5							
1,2-DICHLOROETHENE(TOTAL)								
DICHLOROMETHANE								
1,1-DICHLOROPROPENE								
1,3-DICHLOROPROPYLENE (1,3-DICHLOROPROPENE MIXTURE)								
cis-1,3-DICHLOROPROPENE								
trans-1,3-DICHLOROPROPENE								
DCPA11	< .5							
1,2-DICHLOROPROPANE	< .3							
1,3-DICHLOROPROPANE	< .5							
2,2-DICHLOROPROPANE	< .5							
ETHYLBENZENE		< .6						
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)								
ETEDIBROMIDE								
TRICHLOROFLUOROMETHANE	< .4							
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE								
DICHLORODIFLUOROMETHANE	< .5							
2-HEXANONE								

Volatiles in Groundwater
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	WELL #43		WELL #46	WELL #47	WELL #49	WELL #50	WELL #51	WELL #53
Location ID	(24-800) 687-PG-043		(63-621) 687-PG-046	(630740) 687-PG-047	(52-560) 687-PG-049	(24-300) 687-PG-050	(63-501) 687-PG-051	(62-145) 687-PG-053
Sampe ID	GP890107	GP890107	GP870562	GP870787	GP870561	GP870560	GP870575	GP870574
Sample Date	891218	891218	870805	871104	870805	870805	870811	870811
Laboratory ID	021001	89070999	50319	75599	50318	50317	52253	52252
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ISOPROPYLBENZENE (CUMENE)		< .4						
METHYL ETHYL KETONE (2-BUTANONE)								
CRESOLS, m & p								
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)								
METHYLENE CHLORIDE	< .4							
n-PROPYLBENZENE		< .4						
1,1,2,2-TETRACHLOROETHANE	< .2							
TETRACHLOROETHYLENE(PCE)	< .6	< .6						
STYRENE		< .3						
BROMOFORM	< .7		< .1	< .1	< .1	< .1	< .1	< .1
TRICHLOROBENZENE								
1,1,1,2-TETRACHLOROETHANE	< .2							
1,1,1-TRICHLOROETHANE	< .5							
1,1,2-TRICHLOROETHANE	< .2							
1,2,3-TRICHLOROBENZENE		< .7						
TRICHLOROETHYLENE (TCE)	< .5	< .5						
CHLOROFORM	67.2		5.3	< .1	.5	.6	1.4	16
1,2,3-TRICHLOROPROPANE	< .3							
1,2,4-TRIMETHYLBENZENE		< .1						
1,3,5-TRIMETHYLBENZENE (MESITYLENE)		< .3						
VINYL ACETATE								
VINYL CHLORIDE	< .2							
VOLATILE AROMATIC SCREEN								
VOLATILE ORGANIC HALOCARBON SCREEN								
XYLENES, TOTAL								
XYLENENS1214								

Volatiles in Groundwater
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	WELL #43 (24-800)		WELL #46 (63-621)	WELL #47 (630740)	WELL #49 (52-560)	WELL #50 (24-300)	WELL #51 (63-501)	WELL #53 (62-145)
Location ID	687-PG-043		687-PG-046	687-PG-047	687-PG-049	687-PG-050	687-PG-051	687-PG-053
Sampe ID	GP890107	GP890107	GP870562	GP870787	GP870561	GP870560	GP870575	GP870574
Sample Date	891218	891218	870805	871104	870805	870805	870811	870811
Laboratory ID	021001	89070999	50319	75599	50318	50317	52253	52252
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
M-XYLENE (1,3-DIMETHYLBENZENE)		< .3						
M,P-XYLENE (SUM OF ISOMERS)								
O-XYLENE (1,2-DIMETHYLBENZENE)		< .3						
P-XYLENE (1,4-DIMETHYLBENZENE)		< .6						

<- less than detection limit

Volatiles in Groundwater
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	WELL #8 (52-140)
Location ID	687-PG-008
Sampe ID	GP870512
Sample Date	870721
Laboratory ID	45587
Units	µg/l
ACETONE	
ACROLEIN	
ACRYLONITRILE	
BROMODICHLOROMETHANE	< .1
BROMOBENZENE	
BROMOCHLOROMETHANE	
BROMOFLUOROBENZENE-p	
BROMOMETHANE	
n-BUTYLBENZENE	
SEC-BUTYLBENZENE	
t-BUTYLBENZENE	
BENZENE	
TOLUENE	
TOLUENE-D8	
CARBON DISULFIDE	
2-CHLOROETHYL VINYL ETHER	
CHLOROBENZENE	
2-CHLOROTOLUENE	
4-CHLOROTOLUENE	
CHLORODIBROMOMETHANE	
CHLOROETHANE	
CHLOROMETHANE	
CARBON TETRACHLORIDE	
P-CYMENE (p-ISOPROPYLTOLUENE)	
DIBROMOCHLOROMETHANE	< .1
1,2-DIBROMO-3-CHLOROPROPANE	
DIBROMOMETHANE	

Volatiles in Groundwater
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	WELL #8 (52-140)
Location ID	687-PG-008
Sampe ID	GP870512
Sample Date	870721
Laboratory ID	45587
Units	µg/l
1,1-DICHLOROETHANE	
1,2-DICHLOROETHANE	
1,2-DICHLOROETHANE-D4	
1,1-DICHLOROETHENE	
1,1,1-DICHLOROETHENE	
cis-1,2-DICHLOROETHYLENE	
DCE12E	
trans-1,2-DICHLOROETHENE	
1,2-DICHLOROETHENE(TOTAL)	
DICHLOROMETHANE	
1,1-DICHLOROPROPENE	
1,3-DICHLOROPROPYLENE (1,3-DICHLOROPROPENE MIXTURE)	
cis-1,3-DICHLOROPROPENE	
trans-1,3-DICHLOROPROPENE	
DCPA11	
1,2-DICHLOROPROPANE	
1,3-DICHLOROPROPANE	
2,2-DICHLOROPROPANE	
ETHYLBENZENE	
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	
ETEDIBROMIDE	
TRICHLOROFLUOROMETHANE	
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	
DICHLORODIFLUOROMETHANE	
2-HEXANONE	

Volatiles in Groundwater
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	WELL #8 (52-140)
Location ID	687-PG-008
Sampe ID	GP870512
Sample Date	870721
Laboratory ID	45587
Units	µg/l
ISOPROPYLBENZENE (CUMENE)	
METHYL ETHYL KETONE (2-BUTANONE)	
CRESOLS, m & p	
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	
METHYLENE CHLORIDE	
n-PROPYLBENZENE	
1,1,2,2-TETRACHLOROETHANE	
TETRACHLOROETHYLENE(PCE)	
STYRENE	
BROMOFORM	< .1
TRICHLOROBENZENE	
1,1,1,2-TETRACHLOROETHANE	
1,1,1-TRICHLOROETHANE	
1,1,2-TRICHLOROETHANE	
1,2,3-TRICHLOROBENZENE	
TRICHLOROETHYLENE (TCE)	
CHLOROFORM	1
1,2,3-TRICHLOROPROPANE	
1,2,4-TRIMETHYLBENZENE	
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	
VINYL ACETATE	
VINYL CHLORIDE	
VOLATILE AROMATIC SCREEN	
VOLATILE ORGANIC HALOCARBON SCREEN	
XYLENES, TOTAL	
XYLENENS1214	

Volatiles in Groundwater
Elmendorf AFB, Alaska
Bioenvironmental Services

Site Name	**WELL #8 (52-140)**
Location ID	**687-PG-008**
Sampe ID	**GP870512**
Sample Date	**870721**
Laboratory ID	**45587**
Units	**µg/l**
M-XYLENE (1,3-DIMETHYLBENZENE)	
M,P-XYLENE (SUM OF ISOMERS)	
O-XYLENE (1,2-DIMETHYLBENZENE)	
P-XYLENE (1,4-DIMETHYLBENZENE)	

<- less than detection limit

Semivolatiles in Ground Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name (Bldg. Number) Location ID					TEST WELL #1 687-NG-601	
Sample ID	D213	D219	POTW 1118	Trip Blank	GN912264	GN912265
Sample Date	880605	880605	871118	871118	910806	910806
Lab Sample ID	06/190670	06/190674	11/180137	11/180138	020201	91041668
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ACENAPHTHALENE						< 10
ACENAPHTHENE						< 10
ANILINE (PHENYLAMINE, AMINOBENZENE)						
ANTHRACENE						< 10
BENZYL BUTYL PHTHALATE						< 10
bis(2-CHLOROETHOXY) METHANE						< 10
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)						< 10
bis(2-CHLOROISOPROPYL) ETHER						< 10
bis(2-ETHYLHEXYL) PHTHALATE						< 10
4-BROMOPHENYL PHENYL ETHER						< 10
BENZO(a)ANTHRACENE						< 10
BENZOIC ACID						< 50
BENZO(a)PYRENE						< 10
BENZO(b)FLUORANTHENE						< 10
BENZIDINE						< 50
BENZO(g,h,i)PERYLENE						< 10
BENZO(k)FLUORANTHENE						< 10
BENZYL ALCOHOL						< 10
4-CHLORO-3-METHYLPHENOL						
CHRYSENE						< 10
4-CHLOROANILINE						< 10
2-CHLOROPHENOL	< 10	< 10				< 10
2-CHLORONAPHTHALENE						< 10
4-CHLOROPHENYL PHENYL ETHER						
DIBENZ(a,h)ANTHRACENE						< 10
DIBENZOFURAN						< 10
3,3'-DICHLOROBENZIDINE						< 20
1,2-DICHLOROBENZENE			< .5	< .5	< 1.8	< 10
1,3-DICHLOROBENZENE			< .5	< .5	< 2	< 10

Semivolatiles in Ground Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name (Bldg. Number) Location ID					TEST WELL #1 687-NG-601	
Sample ID	D213	D219	POTW 1118	Trip Blank	GN912264	GN912265
Sample Date	880605	880605	871118	871118	910806	910806
Lab Sample ID	06/190670	06/190674	11/180137	11/180138	020201	91041668
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,4-DICHLOROBENZENE			< 5	< 5	< 1.9	< 10
DICHLOROBENZENES						
2,4-DICHLOROPHENOL	< 8.8	< 33				< 10
DIETHYL PHTHALATE						< 10
2,4-DIMETHYLPHENOL	< 7.8	< 7.8				< 10
DIMETHYL PHTHALATE						< 10
4,6-DINITRO-2-METHYLPHENOL	< 24	< 240				< 50
DI-n-BUTYL PHTHALATE						< 10
DI-n-OCTYL PHTHALATE (bis-(2-ETHYLHEXYL)PHTHALATE)						< 10
2,4-DINITROPHENOL	< 30	< 300				< 50
2,4-DINITROTOLUENE						< 10
2,6-DINITROTOLUENE						< 10
1,2-DIPHENYLHYDRAZINE						< 10
FLUORENE						< .01
FLUORANTHENE						< 10
HEXACHLOROBUTADIENE						< 10
HEXACHLOROCYCLOPENTADIENE						< 10
HEXACHLOROBENZENE						< 10
HEXACHLOROETHANE						< 10
INDENO(1,2,3-c,d)PYRENE						< 10
ISOPHORONE						< 10
2-METHYLPHENOL (o-CRESOL)						< 10
4-METHYLPHENOL (p-CRESOL)						< 10
2-METHYLNAPHTHALENE						< 10
NAPHTHALENE						< 10
N-NITROSODIMETHYLAMINE						< 10
N-NITROSODIPHENYLAMINE						< 10
N-NITROSODI-n-PROPYLAMINE						< 10
2-NITROANILINE						< 50

Semivolatiles in Ground Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name (Bldg. Number) Location ID					TEST WELL #1 687-NG-601	
Sample ID	D213	D219	POTW 1118	Trip Blank	GN912264	GN912265
Sample Date	880605	880605	871118	871118	910806	910806
Lab Sample ID	06/190670	06/190674	11/180137	11/180138	020201	91041668
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
3-NITROANILINE						< 50
4-NITROANILINE						< 50
NITROBENZENE						< 10
2-NITROPHENOL	< 12	< 120				< 10
4-NITROPHENOL	< 22	< 220				< 50
PENTACHLOROPHENOL	< 32	< 320				< 50
PHENANTHRENE						< 10
PHENOL	< 8.2	< 8.2				< 10
PYRENE						< 10
SURFACTANTS						
1,2,4-TRICHLOROBENZENE						< 10
2,4,5-TRICHLOROPHENOL						< 50
2,4,6-TRICHLOROPHENOL	< 24	< 240				< 10
TETRACHLOROPHENOLS, TOTAL						

< = Less than detection limit

Semivolatiles in Ground Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	TEST		TEST		TEST	
(Bldg. Number)	WELL #2		WELL #3		WELL #4	
Location ID	687-NG-602		687-NG-603		687-NG-604	
Sample ID	GN912261	GN912262	GN912270	GN912271	GN912267	GN912268
Sample Date	910805	910805	910807	910807	910806	910806
Lab Sample ID	020201	91080710-01	020201	91041796	020201	91041669
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ACENAPHTHALENE		< 10		< 10		< 10
ACENAPHTHENE		< 10		< 10		< 10
ANILINE (PHENYLAMINE, AMINOBENZENE)						
ANTHRACENE		< 10		< 10		< 10
BENZYL BUTYL PHTHALATE		< 10		< 10		< 10
bis(2-CHLOROETHOXY) METHANE		< 10		< 10		< 10
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)		< 10		< 10		< 10
bis(2-CHLOROISOPROPYL) ETHER		< 10		< 10		< 10
bis(2-ETHYLHEXYL) PHTHALATE		< 10		< 10		< 10
4-BROMOPHENYL PHENYL ETHER		< 10		< 10		< 10
BENZO(a)ANTHRACENE		< 10		< 10		< 10
BENZOIC ACID		< 50		< 50		< 50
BENZO(a)PYRENE		< 10		< 10		< 10
BENZO(b)FLUORANTHENE		< 10		< 10		< 10
BENZIDINE		< 50		< 50		< 50
BENZO(g,h,i)PERYLENE		< 10		< 10		< 10
BENZO(k)FLUORANTHENE		< 10		< 10		< 10
BENZYL ALCOHOL		< 10		< 10		< 10
4-CHLORO-3-METHYLPHENOL		< 10				
CHRYSENE		< 10		< 10		< 10
4-CHLOROANILINE		< 10		< 10		< 10
2-CHLOROPHENOL		< 10		< 10		< 10
2-CHLORONAPHTHALENE		< 10		< 10		< 10
4-CHLOROPHENYL PHENYL ETHER		< 10				
DIBENZ(a,h)ANTHRACENE		< 10		< 10		< 10
DIBENZOFURAN		< 10		< 10		< 10
3,3'-DICHLOROBENZIDINE		< 20		< 20		< 20
1,2-DICHLOROBENZENE	< 1.8	< 10	< 1.8	< 10	< 1.8	< 10
1,3-DICHLOROBENZENE	< 2	< 10	< 2	< 10	< 2	< 10

Semivolatiles in Ground Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	TEST		TEST		TEST	
(Bldg. Number)	WELL #2		WELL #3		WELL #4	
Location ID	687-NG-602		687-NG-603		687-NG-604	
Sample ID	GN912261	GN912262	GN912270	GN912271	GN912267	GN912268
Sample Date	910805	910805	910807	910807	910806	910806
Lab Sample ID	020201	91080710-01	020201	91041796	020201	91041669
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,4-DICHLOROBENZENE	< 1.9	< 10	< 1.9	< 10	< 1.9	< 10
DICHLOROBENZENES						
2,4-DICHLOROPHENOL		< 10		< 10		< 10
DIETHYL PHTHALATE		< 10		< 10		< 10
2,4-DIMETHYLPHENOL		< 10		< 10		< 10
DIMETHYL PHTHALATE		< 10		< 10		< 10
4,6-DINITRO-2-METHYLPHENOL		< 50		< 50		< 50
DI-n-BUTYL PHTHALATE		< 10		< 10		< 10
DI-n-OCTYL PHTHALATE (bis-(2-ETHYLHEXYL)PHTHALATE)		< 10		< 10		< 10
2,4-DINITROPHENOL		< 50		< 50		< 50
2,4-DINITROTOLUENE		< 10		< 10		< 10
2,6-DINITROTOLUENE		< 10		< 10		< 10
1,2-DIPHENYLHYDRAZINE		< 10		< 10		< 10
FLUORENE		< 10		< .01		< .01
FLUORANTHENE		< 10		< 10		< 10
HEXACHLOROBUTADIENE		< 10		< 10		< 10
HEXACHLOROCYCLOPENTADIENE		< 10		< 10		< 10
HEXACHLOROBENZENE		< 10		< 10		< 10
HEXACHLOROETHANE		< 10		< 10		< 10
INDENO(1,2,3-c,d)PYRENE		< 10		< 10		< 10
ISOPHORONE		< 10		< 10		< 10
2-METHYLPHENOL (o-CRESOL)		< 10		< 10		< 10
4-METHYLPHENOL (p-CRESOL)		< 10		< 10		< 10
2-METHYLNAPHTHALENE		< 10		< 10		< 10
NAPHTHALENE		< 10		< 10		< 10
N-NITROSODIMETHYLAMINE		< 10		< 10		< 10
N-NITROSODIPHENYLAMINE		< 10		< 10		< 10
N-NITROSODI-n-PROPYLAMINE		< 10		< 10		< 10
2-NITROANILINE		< 50		< 50		< 50

Semivolatiles in Ground Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	TEST		TEST		TEST	
(Bldg. Number)	WELL #2		WELL #3		WELL #4	
Location ID	687-NG-602		687-NG-603		687-NG-604	
Sample ID	GN912261	GN912262	GN912270	GN912271	GN912267	GN912268
Sample Date	910805	910805	910807	910807	910806	910806
Lab Sample ID	020201	91080710-01	020201	91041796	020201	91041669
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
3-NITROANILINE		< 50		< 50		< 50
4-NITROANILINE		< 50		< 50		< 50
NITROBENZENE		< 10		< 10		< 10
2-NITROPHENOL		< 10		< 10		< 10
4-NITROPHENOL		< 50		< 50		< 50
PENTACHLOROPHENOL		< 50		< 50		< 50
PHENANTHRENE		< 10		< 10		< 10
PHENOL		< 10		< 10		< 10
PYRENE		< 10		< 10		< 10
SURFACTANTS						
1,2,4-TRICHLOROBENZENE		< 10		< 10		< 10
2,4,5-TRICHLOROPHENOL		< 50		< 50		< 50
2,4,6-TRICHLOROPHENOL		< 10		< 10		< 10
TETRACHLOROPHENOLS, TOTAL						

< = Less than detection limit

Semivolatiles in Ground Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	WELL #1					
(Bldg. Number)	(23-990)					
Location ID	687-PG-001					
Sample ID	GP880013	GP880106	GP880152	GP890002	GP890027	GP890048
Sample Date	880318	880624	880920	890124	890501	890807
Lab Sample ID	88032307	88062904	88092304	89012703	31220	89042555
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ACENAPHTHALENE						
ACENAPHTHENE						
ANILINE (PHENYLAMINE, AMINOBENZENE)						
ANTHRACENE						
BENZYL BUTYL PHTHALATE						
bis(2-CHLOROETHOXY) METHANE						
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)						
bis(2-CHLOROISOPROPYL) ETHER						
bis(2-ETHYLHEXYL) PHTHALATE						
4-BROMOPHENYL PHENYL ETHER						
BENZO(a)ANTHRACENE						
BENZOIC ACID						
BENZO(a)PYRENE						
BENZO(b)FLUORANTHENE						
BENZIDINE						
BENZO(g,h,i)PERYLENE						
BENZO(k)FLUORANTHENE						
BENZYL ALCOHOL						
4-CHLORO-3-METHYLPHENOL						
CHRYSENE						
4-CHLOROANILINE						
2-CHLOROPHENOL						
2-CHLORONAPHTHALENE						
4-CHLOROPHENYL PHENYL ETHER						
DIBENZ(a,h)ANTHRACENE						
DIBENZOFURAN						
3,3'-DICHLOROBENZIDINE						
1,2-DICHLOROBENZENE				< 1	< .5	< .5
1,3-DICHLOROBENZENE				< 1	< .5	< .5

Semivolatiles in Ground Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	WELL #1					
(Bldg. Number)	(23-990)					
Location ID	687-PG-001					
Sample ID	GP880013	GP880106	GP880152	GP890002	GP890027	GP890048
Sample Date	880318	880624	880920	890124	890501	890807
Lab Sample ID	88032307	88062904	88092304	89012703	31220	89042555
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,4-DICHLOROBENZENE				< 1	< .5	< .7
DICHLOROBENZENES	< 1	< 1	< 1			
2,4-DICHLOROPHENOL						
DIETHYL PHTHALATE						
2,4-DIMETHYLPHENOL						
DIMETHYL PHTHALATE						
4,6-DINITRO-2-METHYLPHENOL						
DI-n-BUTYL PHTHALATE						
DI-n-OCTYL PHTHALATE (bis-(2-ETHYLHEXYL)PHTHALATE)						
2,4-DINITROPHENOL						
2,4-DINITROTOLUENE						
2,6-DINITROTOLUENE						
1,2-DIPHENYLHYDRAZINE						
FLUORENE						
FLUORANTHENE						
HEXACHLOROBUTADIENE					< .5	< .5
HEXACHLOROCYCLOPENTADIENE						
HEXACHLOROBENZENE						
HEXACHLOROETHANE						
INDENO(1,2,3-c,d)PYRENE						
ISOPHORONE						
2-METHYLPHENOL (o-CRESOL)						
4-METHYLPHENOL (p-CRESOL)						
2-METHYLNAPHTHALENE						
NAPHTHALENE					< .6	< .6
N-NITROSODIMETHYLAMINE						
N-NITROSODIPHENYLAMINE						
N-NITROSODI-n-PROPYLAMINE						
2-NITROANILINE						

Semivolatiles in Ground Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	WELL #1					
(Bldg. Number)	(23-990)					
Location ID	687-PG-001					
Sample ID	GP880013	GP880106	GP880152	GP890002	GP890027	GP890048
Sample Date	880318	880624	880920	890124	890501	890807
Lab Sample ID	88032307	88062904	88092304	89012703	31220	89042555
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
3-NITROANILINE						
4-NITROANILINE						
NITROBENZENE						
2-NITROPHENOL						
4-NITROPHENOL						
PENTACHLOROPHENOL						
PHENANTHRENE						
PHENOL						
PYRENE						
SURFACTANTS						
1,2,4-TRICHLOROBENZENE					< .5	< 1.4
2,4,5-TRICHLOROPHENOL						
2,4,6-TRICHLOROPHENOL						
TETRACHLOROPHENOLS, TOTAL						

< = Less than detection limit

Semivolatiles in Ground Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	WELL #1				WELL #16	
(Bldg. Number)	(23-990)				(32-189)	
Location ID	687-PG-001				687-PG-016	
Sample ID	GP890054	GP890101	GP890101	GP900003	GP880015	GP880110
Sample Date	890725	891218	891218	900716	880318	880624
Lab Sample ID	89042561	021001	89070993	90045133	88032309	88062908
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ACENAPHTHALENE						
ACENAPHTHENE						
ANILINE (PHENYLAMINE, AMINOBENZENE)						
ANTHRACENE						
BENZYL BUTYL PHTHALATE						
bis(2-CHLOROETHOXY) METHANE						
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)						
bis(2-CHLOROISOPROPYL) ETHER						
bis(2-ETHYLHEXYL) PHTHALATE						
4-BROMOPHENYL PHENYL ETHER						
BENZO(a)ANTHRACENE						
BENZOIC ACID						
BENZO(a)PYRENE						
BENZO(b)FLUORANTHENE						
BENZIDINE						
BENZO(g,h,i)PERYLENE						
BENZO(k)FLUORANTHENE						
BENZYL ALCOHOL						
4-CHLORO-3-METHYLPHENOL						
CHRYSENE						
4-CHLOROANILINE						
2-CHLOROPHENOL						
2-CHLORONAPHTHALENE						
4-CHLOROPHENYL PHENYL ETHER						
DIBENZ(a,h)ANTHRACENE						
DIBENZOFURAN						
3,3'-DICHLOROBENZIDINE						
1,2-DICHLOROBENZENE	< .5	< .5	< .5	< .5		
1,3-DICHLOROBENZENE	< .5	< .5	< .5	< .5		

Semivolatiles in Ground Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	WELL #1				WELL #16	
(Bldg. Number)	(23-990)				(32-189)	
Location ID	687-PG-001				687-PG-016	
Sample ID	GP890054	GP890101	GP890101	GP900003	GP880015	GP880110
Sample Date	890725	891218	891218	900716	880318	880624
Lab Sample ID	89042561	021001	89070993	90045133	88032309	88062908
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,4-DICHLOROBENZENE	< .7	< .7	< .7	< .5		
DICHLOROBENZENES					< 1	< 1
2,4-DICHLOROPHENOL						
DIETHYL PHTHALATE						
2,4-DIMETHYLPHENOL						
DIMETHYL PHTHALATE						
4,6-DINITRO-2-METHYLPHENOL						
DI-n-BUTYL PHTHALATE						
DI-n-OCTYL PHTHALATE (bis-(2-ETHYLHEXYL)PHTHALATE)						
2,4-DINITROPHENOL						
2,4-DINITROTOLUENE						
2,6-DINITROTOLUENE						
1,2-DIPHENYLHYDRAZINE						
FLUORENE						
FLUORANTHENE						
HEXACHLOROBUTADIENE	< .5		< .5	< .5		
HEXACHLOROCYCLOPENTADIENE						
HEXACHLOROBENZENE						
HEXACHLOROETHANE						
INDENO(1,2,3-c,d)PYRENE						
ISOPHORONE						
2-METHYLPHENOL (o-CRESOL)						
4-METHYLPHENOL (p-CRESOL)						
2-METHYLNAPHTHALENE						
NAPHTHALENE	< .6		< .6	< .6		
N-NITROSODIMETHYLAMINE						
N-NITROSODIPHENYLAMINE						
N-NITROSODI-n-PROPYLAMINE						
2-NITROANILINE						

Semivolatiles in Ground Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	WELL #1				WELL #16	
(Bldg. Number)	(23-990)				(32-189)	
Location ID	687-PG-001				687-PG-016	
Sample ID	GP890054	GP890101	GP890101	GP900003	GP880015	GP880110
Sample Date	890725	891218	891218	900716	880318	880624
Lab Sample ID	89042561	021001	89070993	90045133	88032309	88062908
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
3-NITROANILINE						
4-NITROANILINE						
NITROBENZENE						
2-NITROPHENOL						
4-NITROPHENOL						
PENTACHLOROPHENOL						
PHENANTHRENE						
PHENOL						
PYRENE						
SURFACTANTS						
1,2,4-TRICHLOROBENZENE	< 1.4		< 1.4	< 1.4		
2,4,5-TRICHLOROPHENOL						
2,4,6-TRICHLOROPHENOL						
TETRACHLOROPHENOLS, TOTAL						

< = Less than detection limit

Semivolatiles in Ground Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	WELL #16					
(Bldg. Number)	(32-189)					
Location ID	687-PG-016					
Sample ID	GP880156	GP890005	GP890013	GP890032	GP890051	GP890103
Sample Date	880920	890124	890124	890530	890725	891218
Lab Sample ID	88092308	89012706	4410	31230	89042558	021001
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ACENAPHTHALENE						
ACENAPHTHENE						
ANILINE (PHENYLAMINE, AMINOBENZENE)						
ANTHRACENE						
BENZYL BUTYL PHTHALATE						
bis(2-CHLOROETHOXY) METHANE						
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)						
bis(2-CHLOROISOPROPYL) ETHER						
bis(2-ETHYLHEXYL) PHTHALATE						
4-BROMOPHENYL PHENYL ETHER						
BENZO(a)ANTHRACENE						
BENZOIC ACID						
BENZO(a)PYRENE						
BENZO(b)FLUORANTHENE						
BENZIDINE						
BENZO(g,h,i)PERYLENE						
BENZO(k)FLUORANTHENE						
BENZYL ALCOHOL						
4-CHLORO-3-METHYLPHENOL						
CHRYSENE						
4-CHLOROANILINE						
2-CHLOROPHENOL						
2-CHLORONAPHTHALENE						
4-CHLOROPHENYL PHENYL ETHER						
DIBENZ(a,h)ANTHRACENE						
DIBENZOFURAN						
3,3'-DICHLOROBENZIDINE						
1,2-DICHLOROBENZENE		< 1	< .5	< .5	< .5	< .5
1,3-DICHLOROBENZENE		< 1	< .5	< .5	< .5	< .5

Semivolatiles in Ground Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	WELL #16					
(Bldg. Number)	(32-189)					
Location ID	687-PG-016					
Sample ID	GP880156	GP890005	GP890013	GP890032	GP890051	GP890103
Sample Date	880920	890124	890124	890530	890725	891218
Lab Sample ID	88092308	89012706	4410	31230	89042558	021001
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,4-DICHLOROBENZENE		< 1	< .5	< .5	< .7	< .7
DICHLOROBENZENES	< 1					
2,4-DICHLOROPHENOL						
DIETHYL PHTHALATE						
2,4-DIMETHYLPHENOL						
DIMETHYL PHTHALATE						
4,6-DINITRO-2-METHYLPHENOL						
DI-n-BUTYL PHTHALATE						
DI-n-OCTYL PHTHALATE (bis-(2-ETHYLHEXYL)PHTHALATE)						
2,4-DINITROPHENOL						
2,4-DINITROTOLUENE						
2,6-DINITROTOLUENE						
1,2-DIPHENYLHYDRAZINE						
FLUORENE						
FLUORANTHENE						
HEXACHLOROBUTADIENE			< .5	< .5	< .5	
HEXACHLOROCYCLOPENTADIENE						
HEXACHLOROBENZENE						
HEXACHLOROETHANE						
INDENO(1,2,3-c,d)PYRENE						
ISOPHORONE						
2-METHYLPHENOL (o-CRESOL)						
4-METHYLPHENOL (p-CRESOL)						
2-METHYLNAPHTHALENE						
NAPHTHALENE			< .5	< .5	< .6	
N-NITROSODIMETHYLAMINE						
N-NITROSODIPHENYLAMINE						
N-NITROSODI-n-PROPYLAMINE						
2-NITROANILINE						

Semivolatiles in Ground Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	WELL #16					
(Bldg. Number)	(32-189)					
Location ID	687-PG-016					
Sample ID	GP880156	GP890005	GP890013	GP890032	GP890051	GP890103
Sample Date	880920	890124	890124	890530	890725	891218
Lab Sample ID	88092308	89012706	4410	31230	89042558	021001
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
3-NITROANILINE						
4-NITROANILINE						
NITROBENZENE						
2-NITROPHENOL						
4-NITROPHENOL						
PENTACHLOROPHENOL						
PHENANTHRENE						
PHENOL						
PYRENE						
SURFACTANTS						
1,2,4-TRICHLOROBENZENE			< .5	< .5	< 1.4	
2,4,5-TRICHLOROPHENOL						
2,4,6-TRICHLOROPHENOL						
TETRACHLOROPHENOLS, TOTAL						

< = Less than detection limit

Semivolatiles in Ground Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	WELL #16	WELL #2				
(Bldg. Number)	(32-189)	(22-001)				
Location ID	687-PG-016	687-PG-002				
Sample ID	GP890103	GP880008	GP880109	GP880155	GP890004	GP890012
Sample Date	891218	880316	880624	880920	890124	890101
Lab Sample ID	89070995	88032302	88062907	88092307	89012705	4650
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ACENAPHTHALENE						
ACENAPHTHENE						
ANILINE (PHENYLAMINE, AMINOBENZENE)						
ANTHRACENE						
BENZYL BUTYL PHTHALATE						
bis(2-CHLOROETHOXY) METHANE						
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)						
bis(2-CHLOROISOPROPYL) ETHER						
bis(2-ETHYLHEXYL) PHTHALATE						
4-BROMOPHENYL PHENYL ETHER						
BENZO(a)ANTHRACENE						
BENZOIC ACID						
BENZO(a)PYRENE						
BENZO(b)FLUORANTHENE						
BENZIDINE						
BENZO(g,h,i)PERYLENE						
BENZO(k)FLUORANTHENE						
BENZYL ALCOHOL						
4-CHLORO-3-METHYLPHENOL						
CHRYSENE						
4-CHLOROANILINE						
2-CHLOROPHENOL						
2-CHLORONAPHTHALENE						
4-CHLOROPHENYL PHENYL ETHER						
DIBENZ(a,h)ANTHRACENE						
DIBENZOFURAN						
3,3'-DICHLOROBENZIDINE						
1,2-DICHLOROBENZENE	< .5				< 1	< .5
1,3-DICHLOROBENZENE	< .5				< 1	< .5

Semivolatiles in Ground Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	WELL #16	WELL #2				
(Bldg. Number)	(32-189)	(22-001)				
Location ID	687-PG-016	687-PG-002				
Sample ID	GP890103	GP880008	GP880109	GP880155	GP890004	GP890012
Sample Date	891218	880316	880624	880920	890124	890101
Lab Sample ID	89070995	88032302	88062907	88092307	89012705	4650
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,4-DICHLOROBENZENE	< .7				< 1	< .5
DICHLOROBENZENES		< 1	< 1	< 1		
2,4-DICHLOROPHENOL						
DIETHYL PHTHALATE						
2,4-DIMETHYLPHENOL						
DIMETHYL PHTHALATE						
4,6-DINITRO-2-METHYLPHENOL						
DI-n-BUTYL PHTHALATE						
DI-n-OCTYL PHTHALATE (bis-(2-ETHYLHEXYL)PHTHALATE)						
2,4-DINITROPHENOL						
2,4-DINITROTOLUENE						
2,6-DINITROTOLUENE						
1,2-DIPHENYLHYDRAZINE						
FLUORENE						
FLUORANTHENE						
HEXACHLOROBUTADIENE	< .5					< .5
HEXACHLOROCYCLOPENTADIENE						
HEXACHLOROBENZENE						
HEXACHLOROETHANE						
INDENO(1,2,3-c,d)PYRENE						
ISOPHORONE						
2-METHYLPHENOL (o-CRESOL)						
4-METHYLPHENOL (p-CRESOL)						
2-METHYLNAPHTHALENE						
NAPHTHALENE	< .6					< .5
N-NITROSODIMETHYLAMINE						
N-NITROSODIPHENYLAMINE						
N-NITROSODI-n-PROPYLAMINE						
2-NITROANILINE						

Semivolatiles in Ground Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	WELL #16	WELL #2				
(Bldg. Number)	(32-189)	(22-001)				
Location ID	687-PG-016	687-PG-002				
Sample ID	GP890103	GP880008	GP880109	GP880155	GP890004	GP890012
Sample Date	891218	880316	880624	880920	890124	890101
Lab Sample ID	89070995	88032302	88062907	88092307	89012705	4650
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
3-NITROANILINE						
4-NITROANILINE						
NITROBENZENE						
2-NITROPHENOL						
4-NITROPHENOL						
PENTACHLOROPHENOL						
PHENANTHRENE						
PHENOL						
PYRENE						
SURFACTANTS						
1,2,4-TRICHLOROBENZENE	< 1.4					< .5
2,4,5-TRICHLOROPHENOL						
2,4,6-TRICHLOROPHENOL						
TETRACHLOROPHENOLS, TOTAL						

< = Less than detection limit

Semivolatiles in Ground Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	WELL #2					WELL #24
(Bldg. Number)	(22-001)					(52-668)
Location ID	687-PG-002					687-PG-024
Sample ID	GP890026	GP890053	GP890102	GP890102	GP912047	GP840319
Sample Date	890501	890725	891218	891218	910314	840702
Lab Sample ID	31218	89042560	021001	89070994	91012671	39238
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ACENAPHTHALENE						
ACENAPHTHENE						
ANILINE (PHENYLAMINE, AMINOBENZENE)						
ANTHRACENE						
BENZYL BUTYL PHTHALATE						
bis(2-CHLOROETHOXY) METHANE						
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)						
bis(2-CHLOROISOPROPYL) ETHER						
bis(2-ETHYLHEXYL) PHTHALATE						
4-BROMOPHENYL PHENYL ETHER						
BENZO(a)ANTHRACENE						
BENZOIC ACID						
BENZO(a)PYRENE						
BENZO(b)FLUORANTHENE						
BENZIDINE						
BENZO(g,h,i)PERYLENE						
BENZO(k)FLUORANTHENE						
BENZYL ALCOHOL						
4-CHLORO-3-METHYLPHENOL						
CHRYSENE						
4-CHLOROANILINE						
2-CHLOROPHENOL						
2-CHLORONAPHTHALENE						
4-CHLOROPHENYL PHENYL ETHER						
DIBENZ(a,h)ANTHRACENE						
DIBENZOFURAN						
3,3'-DICHLOROBENZIDINE						
1,2-DICHLOROBENZENE	< .5	< .5	< .5	< .5	< .5	
1,3-DICHLOROBENZENE	< .5	< .5	< .5	< .5	< .5	

Semivolatiles in Ground Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	WELL #2					WELL #24
(Bldg. Number)	(22-001)					(52-668)
Location ID	687-PG-002					687-PG-024
Sample ID	GP890026	GP890053	GP890102	GP890102	GP912047	GP840319
Sample Date	890501	890725	891218	891218	910314	840702
Lab Sample ID	31218	89042560	021001	89070994	91012671	39238
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,4-DICHLOROBENZENE	< .5	< .7	< .7	< .7	< .5	
DICHLOROBENZENES						
2,4-DICHLOROPHENOL						
DIETHYL PHTHALATE						
2,4-DIMETHYLPHENOL						
DIMETHYL PHTHALATE						
4,6-DINITRO-2-METHYLPHENOL						
DI-n-BUTYL PHTHALATE						
DI-n-OCTYL PHTHALATE (bis-(2-ETHYLHEXYL)PHTHALATE)						
2,4-DINITROPHENOL						
2,4-DINITROTOLUENE						
2,6-DINITROTOLUENE						
1,2-DIPHENYLHYDRAZINE						
FLUORENE						
FLUORANTHENE						
HEXACHLOROBUTADIENE	< .5	< .5		< .5	< .5	
HEXACHLOROCYCLOPENTADIENE						
HEXACHLOROBENZENE						
HEXACHLOROETHANE						
INDENO(1,2,3-c,d)PYRENE						
ISOPHORONE						
2-METHYLPHENOL (o-CRESOL)						
4-METHYLPHENOL (p-CRESOL)						
2-METHYLNAPHTHALENE						
NAPHTHALENE	< .5	< .6		< .6	< .6	
N-NITROSODIMETHYLAMINE						
N-NITROSODIPHENYLAMINE						
N-NITROSODI-n-PROPYLAMINE						
2-NITROANILINE						

Semivolatiles in Ground Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	WELL #2					WELL #24
(Bldg. Number)	(22-001)					(52-668)
Location ID	687-PG-002					687-PG-024
Sample ID	GP890026	GP890053	GP890102	GP890102	GP912047	GP840319
Sample Date	890501	890725	891218	891218	910314	840702
Lab Sample ID	31218	89042560	021001	89070994	91012671	39238
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
3-NITROANILINE						
4-NITROANILINE						
NITROBENZENE						
2-NITROPHENOL						
4-NITROPHENOL						
PENTACHLOROPHENOL						
PHENANTHRENE						
PHENOL						< 10
PYRENE						
SURFACTANTS						
1,2,4-TRICHLOROBENZENE	< .5	< 1.4		< 1.4	< 1.4	
2,4,5-TRICHLOROPHENOL						
2,4,6-TRICHLOROPHENOL						
TETRACHLOROPHENOLS, TOTAL						

< = Less than detection limit

Semivolatiles in Ground Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	WELL #27			WELL #29	WELL #39	
(Bldg. Number)	(62-250)			(42-500)	(35-750)	
Location ID	687-PG-027			687-PG-029	687-PG-039	
Sample ID	GP840320	WELL#27	WELL#27	GP840321	GP840322	GP880014
Sample Date	840702	880519	880519	840702	840702	880318
Lab Sample ID	39245	109701	109702	39256	39262	88032308
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ACENAPHTHALENE						
ACENAPHTHENE						
ANILINE (PHENYLAMINE, AMINOBENZENE)						
ANTHRACENE						
BENZYL BUTYL PHTHALATE						
bis(2-CHLOROETHOXY) METHANE						
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)						
bis(2-CHLOROISOPROPYL) ETHER						
bis(2-ETHYLHEXYL) PHTHALATE						
4-BROMOPHENYL PHENYL ETHER						
BENZO(a)ANTHRACENE						
BENZOIC ACID						
BENZO(a)PYRENE						
BENZO(b)FLUORANTHENE						
BENZIDINE						
BENZO(g,h,i)PERYLENE						
BENZO(k)FLUORANTHENE						
BENZYL ALCOHOL						
4-CHLORO-3-METHYLPHENOL						
CHRYSENE						
4-CHLOROANILINE						
2-CHLOROPHENOL						
2-CHLORONAPHTHALENE						
4-CHLOROPHENYL PHENYL ETHER						
DIBENZ(a,h)ANTHRACENE						
DIBENZOFURAN						
3,3'-DICHLOROBENZIDINE						
1,2-DICHLOROBENZENE		< 1	< 1			
1,3-DICHLOROBENZENE		< 1	< 1			

Semivolatiles in Ground Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	WELL #27			WELL #29	WELL #39	
(Bldg. Number)	(62-250)			(42-500)	(35-750)	
Location ID	687-PG-027			687-PG-029	687-PG-039	
Sample ID	GP840320	WELL#27	WELL#27	GP840321	GP840322	GP880014
Sample Date	840702	880519	880519	840702	840702	880318
Lab Sample ID	39245	109701	109702	39256	39262	88032308
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,4-DICHLOROBENZENE		< 1	< 1			
DICHLOROBENZENES						< 1
2,4-DICHLOROPHENOL						
DIETHYL PHTHALATE						
2,4-DIMETHYLPHENOL						
DIMETHYL PHTHALATE						
4,6-DINITRO-2-METHYLPHENOL						
DI-n-BUTYL PHTHALATE						
DI-n-OCTYL PHTHALATE (bis-(2-ETHYLHEXYL)PHTHALATE)						
2,4-DINITROPHENOL						
2,4-DINITROTOLUENE						
2,6-DINITROTOLUENE						
1,2-DIPHENYLHYDRAZINE						
FLUORENE						
FLUORANTHENE						
HEXACHLOROBUTADIENE						
HEXACHLOROCYCLOPENTADIENE						
HEXACHLOROBENZENE						
HEXACHLOROETHANE						
INDENO(1,2,3-c,d)PYRENE						
ISOPHORONE						
2-METHYLPHENOL (o-CRESOL)						
4-METHYLPHENOL (p-CRESOL)						
2-METHYLNAPHTHALENE						
NAPHTHALENE						
N-NITROSODIMETHYLAMINE						
N-NITROSODIPHENYLAMINE						
N-NITROSODI-n-PROPYLAMINE						
2-NITROANILINE						

Semivolatiles in Ground Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	WELL #27			WELL #29	WELL #39	
(Bldg. Number)	(62-250)			(42-500)	(35-750)	
Location ID	687-PG-027			687-PG-029	687-PG-039	
Sample ID	GP840320	WELL#27	WELL#27	GP840321	GP840322	GP880014
Sample Date	840702	880519	880519	840702	840702	880318
Lab Sample ID	39245	109701	109702	39256	39262	88032308
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
3-NITROANILINE						
4-NITROANILINE						
NITROBENZENE						
2-NITROPHENOL						
4-NITROPHENOL						
PENTACHLOROPHENOL						
PHENANTHRENE						
PHENOL	< 10			< 10	< 10	
PYRENE						
SURFACTANTS						
1,2,4-TRICHLOROBENZENE						
2,4,5-TRICHLOROPHENOL						
2,4,6-TRICHLOROPHENOL						
TETRACHLOROPHENOLS, TOTAL						

< = Less than detection limit

Semivolatiles in Ground Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	WELL #39					
(Bldg. Number)	(35-750)					
Location ID	687-PG-039					
Sample ID	GP880105	GP880151	GP890001	GP890009	GP890028	GP890052
Sample Date	880624	880920	890124	890124	890530	890725
Lab Sample ID	88062903	88092303	89012702	4404	31222	89042559
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ACENAPHTHALENE						
ACENAPHTHENE						
ANILINE (PHENYLAMINE, AMINOBENZENE)						
ANTHRACENE						
BENZYL BUTYL PHTHALATE						
bis(2-CHLOROETHOXY) METHANE						
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)						
bis(2-CHLOROISOPROPYL) ETHER						
bis(2-ETHYLHEXYL) PHTHALATE						
4-BROMOPHENYL PHENYL ETHER						
BENZO(a)ANTHRACENE						
BENZOIC ACID						
BENZO(a)PYRENE						
BENZO(b)FLUORANTHENE						
BENZIDINE						
BENZO(g,h,i)PERYLENE						
BENZO(k)FLUORANTHENE						
BENZYL ALCOHOL						
4-CHLORO-3-METHYLPHENOL						
CHRYSENE						
4-CHLOROANILINE						
2-CHLOROPHENOL						
2-CHLORONAPHTHALENE						
4-CHLOROPHENYL PHENYL ETHER						
DIBENZ(a,h)ANTHRACENE						
DIBENZOFURAN						
3,3'-DICHLOROBENZIDINE						
1,2-DICHLOROBENZENE			< 1	< .5	< .5	< .5
1,3-DICHLOROBENZENE			< 1	< .5	< .5	< .5

Semivolatiles in Ground Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	WELL #39					
(Bldg. Number)	(35-750)					
Location ID	687-PG-039					
Sample ID	GP880105	GP880151	GP890001	GP890009	GP890028	GP890052
Sample Date	880624	880920	890124	890124	890530	890725
Lab Sample ID	88062903	88092303	89012702	4404	31222	89042559
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,4-DICHLOROBENZENE			< 1	< .5	< .5	< .7
DICHLOROBENZENES	< 1	< 1				
2,4-DICHLOROPHENOL						
DIETHYL PHTHALATE						
2,4-DIMETHYLPHENOL						
DIMETHYL PHTHALATE						
4,6-DINITRO-2-METHYLPHENOL						
DI-n-BUTYL PHTHALATE						
DI-n-OCTYL PHTHALATE (bis-(2-ETHYLHEXYL)PHTHALATE)						
2,4-DINITROPHENOL						
2,4-DINITROTOLUENE						
2,6-DINITROTOLUENE						
1,2-DIPHENYLHYDRAZINE						
FLUORENE						
FLUORANTHENE						
HEXACHLOROBUTADIENE				< .5	< .5	< .5
HEXACHLOROCYCLOPENTADIENE						
HEXACHLOROBENZENE						
HEXACHLOROETHANE						
INDENO(1,2,3-c,d)PYRENE						
ISOPHORONE						
2-METHYLPHENOL (o-CRESOL)						
4-METHYLPHENOL (p-CRESOL)						
2-METHYLNAPHTHALENE						
NAPHTHALENE				< .5	< .5	< .6
N-NITROSODIMETHYLAMINE						
N-NITROSODIPHENYLAMINE						
N-NITROSODI-n-PROPYLAMINE						
2-NITROANILINE						

Semivolatiles in Ground Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	WELL #39					
(Bldg. Number)	(35-750)					
Location ID	687-PG-039					
Sample ID	GP880105	GP880151	GP890001	GP890009	GP890028	GP890052
Sample Date	880624	880920	890124	890124	890530	890725
Lab Sample ID	88062903	88092303	89012702	4404	31222	89042559
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
3-NITROANILINE						
4-NITROANILINE						
NITROBENZENE						
2-NITROPHENOL						
4-NITROPHENOL						
PENTACHLOROPHENOL						
PHENANTHRENE						
PHENOL						
PYRENE						
SURFACTANTS						
1,2,4-TRICHLOROBENZENE				< .5	< .5	< 1.4
2,4,5-TRICHLOROPHENOL						
2,4,6-TRICHLOROPHENOL						
TETRACHLOROPHENOLS, TOTAL						

< = Less than detection limit

Semivolatiles in Ground Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	WELL #39		WELL #4			
(Bldg. Number)	(35-750)		(63-600)			
Location ID	687-PG-039		687-PG-004			
Sample ID	GP890104	GP890104	GP840317	GP870657	GP870689	GP870690
Sample Date	891218	891218	840702	870901	870917	870917
Lab Sample ID	021001	89070996	39227	50204	61452	61453
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ACENAPHTHALENE						
ACENAPHTHENE						
ANILINE (PHENYLAMINE, AMINOBENZENE)						
ANTHRACENE						
BENZYL BUTYL PHTHALATE						
bis(2-CHLOROETHOXY) METHANE						
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)						
bis(2-CHLOROISOPROPYL) ETHER						
bis(2-ETHYLHEXYL) PHTHALATE						
4-BROMOPHENYL PHENYL ETHER						
BENZO(a)ANTHRACENE						
BENZOIC ACID						
BENZO(a)PYRENE						
BENZO(b)FLUORANTHENE						
BENZIDINE						
BENZO(g,h,i)PERYLENE						
BENZO(k)FLUORANTHENE						
BENZYL ALCOHOL						
4-CHLORO-3-METHYLPHENOL						
CHRYSENE						
4-CHLOROANILINE						
2-CHLOROPHENOL						
2-CHLORONAPHTHALENE						
4-CHLOROPHENYL PHENYL ETHER						
DIBENZ(a,h)ANTHRACENE						
DIBENZOFURAN						
3,3'-DICHLOROBENZIDINE						
1,2-DICHLOROBENZENE	< .5	< .5		< .2	< .2	< 2
1,3-DICHLOROBENZENE	< .5	< .5		< .2	< .2	< 2

Semivolatiles in Ground Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	WELL #39		WELL #4			
(Bldg. Number)	(35-750)		(63-600)			
Location ID	687-PG-039		687-PG-004			
Sample ID	GP890104	GP890104	GP840317	GP870657	GP870689	GP870690
Sample Date	891218	891218	840702	870901	870917	870917
Lab Sample ID	021001	89070996	39227	50204	61452	61453
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,4-DICHLOROBENZENE	< .7	< .7		< .1	< .1	< 2
DICHLOROBENZENES						
2,4-DICHLOROPHENOL						
DIETHYL PHTHALATE						
2,4-DIMETHYLPHENOL						
DIMETHYL PHTHALATE						
4,6-DINITRO-2-METHYLPHENOL						
DI-n-BUTYL PHTHALATE						
DI-n-OCTYL PHTHALATE (bis-(2-ETHYLHEXYL)PHTHALATE)						
2,4-DINITROPHENOL						
2,4-DINITROTOLUENE						
2,6-DINITROTOLUENE						
1,2-DIPHENYLHYDRAZINE						
FLUORENE						
FLUORANTHENE						
HEXACHLOROBUTADIENE		< .5				
HEXACHLOROCYCLOPENTADIENE						
HEXACHLOROBENZENE						
HEXACHLOROETHANE						
INDENO(1,2,3-c,d)PYRENE						
ISOPHORONE						
2-METHYLPHENOL (o-CRESOL)						
4-METHYLPHENOL (p-CRESOL)						
2-METHYLNAPHTHALENE						
NAPHTHALENE		< .6				
N-NITROSODIMETHYLAMINE						
N-NITROSODIPHENYLAMINE						
N-NITROSODI-n-PROPYLAMINE						
2-NITROANILINE						

Semivolatiles in Ground Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	WELL #39		WELL #4			
(Bldg. Number)	(35-750)		(63-600)			
Location ID	687-PG-039		687-PG-004			
Sample ID	GP890104	GP890104	GP840317	GP870657	GP870689	GP870690
Sample Date	891218	891218	840702	870901	870917	870917
Lab Sample ID	021001	89070996	39227	50204	61452	61453
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
3-NITROANILINE						
4-NITROANILINE						
NITROBENZENE						
2-NITROPHENOL						
4-NITROPHENOL						
PENTACHLOROPHENOL						
PHENANTHRENE						
PHENOL			< 10			
PYRENE						
SURFACTANTS						
1,2,4-TRICHLOROBENZENE		< 1.4				
2,4,5-TRICHLOROPHENOL						
2,4,6-TRICHLOROPHENOL						
TETRACHLOROPHENOLS, TOTAL						

< = Less than detection limit

Semivolatiles in Ground Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	WELL #40					
(Bldg. Number)	(5-800)					
Location ID	687-PG-040					
Sample ID	GP880009	GP880108	GP880154	GP890003	GP890011	GP890030
Sample Date	880316	880624	880920	890124	890124	890530
Lab Sample ID	88032303	88062906	88092306	89012704	4647	31226
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ACENAPHTHALENE						
ACENAPHTHENE						
ANILINE (PHENYLAMINE, AMINOBENZENE)						
ANTHRACENE						
BENZYL BUTYL PHTHALATE						
bis(2-CHLOROETHOXY) METHANE						
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)						
bis(2-CHLOROISOPROPYL) ETHER						
bis(2-ETHYLHEXYL) PHTHALATE						
4-BROMOPHENYL PHENYL ETHER						
BENZO(a)ANTHRACENE						
BENZOIC ACID						
BENZO(a)PYRENE						
BENZO(b)FLUORANTHENE						
BENZIDINE						
BENZO(g,h,i)PERYLENE						
BENZO(k)FLUORANTHENE						
BENZYL ALCOHOL						
4-CHLORO-3-METHYLPHENOL						
CHRYSENE						
4-CHLOROANILINE						
2-CHLOROPHENOL						
2-CHLORONAPHTHALENE						
4-CHLOROPHENYL PHENYL ETHER						
DIBENZ(a,h)ANTHRACENE						
DIBENZOFURAN						
3,3'-DICHLOROBENZIDINE						
1,2-DICHLOROBENZENE				< 1	< .5	< .5
1,3-DICHLOROBENZENE				< 1	< .5	< .5

Semivolatiles in Ground Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	WELL #40					
(Bldg. Number)	(5-800)					
Location ID	687-PG-040					
Sample ID	GP880009	GP880108	GP880154	GP890003	GP890011	GP890030
Sample Date	880316	880624	880920	890124	890124	890530
Lab Sample ID	88032303	88062906	88092306	89012704	4647	31226
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,4-DICHLOROBENZENE				< 1	< .5	< .5
DICHLOROBENZENES	< 1	< 1	< 1			
2,4-DICHLOROPHENOL						
DIETHYL PHTHALATE						
2,4-DIMETHYLPHENOL						
DIMETHYL PHTHALATE						
4,6-DINITRO-2-METHYLPHENOL						
DI-n-BUTYL PHTHALATE						
DI-n-OCTYL PHTHALATE (bis-(2-ETHYLHEXYL)PHTHALATE)						
2,4-DINITROPHENOL						
2,4-DINITROTOLUENE						
2,6-DINITROTOLUENE						
1,2-DIPHENYLHYDRAZINE						
FLUORENE						
FLUORANTHENE						
HEXACHLOROBUTADIENE					< .5	< .5
HEXACHLOROCYCLOPENTADIENE						
HEXACHLOROBENZENE						
HEXACHLOROETHANE						
INDENO(1,2,3-c,d)PYRENE						
ISOPHORONE						
2-METHYLPHENOL (o-CRESOL)						
4-METHYLPHENOL (p-CRESOL)						
2-METHYLNAPHTHALENE						
NAPHTHALENE					< .5	< .5
N-NITROSODIMETHYLAMINE						
N-NITROSODIPHENYLAMINE						
N-NITROSODI-n-PROPYLAMINE						
2-NITROANILINE						

Semivolatiles in Ground Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	WELL #40					
(Bldg. Number)	(5-800)					
Location ID	687-PG-040					
Sample ID	GP880009	GP880108	GP880154	GP890003	GP890011	GP890030
Sample Date	880316	880624	880920	890124	890124	890530
Lab Sample ID	88032303	88062906	88092306	89012704	4647	31226
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
3-NITROANILINE						
4-NITROANILINE						
NITROBENZENE						
2-NITROPHENOL						
4-NITROPHENOL						
PENTACHLOROPHENOL						
PHENANTHRENE						
PHENOL						
PYRENE						
SURFACTANTS						
1,2,4-TRICHLOROBENZENE					< .5	< .5
2,4,5-TRICHLOROPHENOL						
2,4,6-TRICHLOROPHENOL						
TETRACHLOROPHENOLS, TOTAL						

< = Less than detection limit

Semivolatiles in Ground Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	WELL #40				WELL #42	
(Bldg. Number)	(5-800)				(11-200)	
Location ID	687-PG-040				687-PG-042	
Sample ID	GP890050	GP890105	GP890105	GP912048	GP880010	GP880107
Sample Date	890725	891218	891218	910314	880316	880624
Lab Sample ID	89042557	021001	89070997	91012672	88032304	88062905
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ACENAPHTHALENE						
ACENAPHTHENE						
ANILINE (PHENYLAMINE, AMINOBENZENE)						
ANTHRACENE						
BENZYL BUTYL PHTHALATE						
bis(2-CHLOROETHOXY) METHANE						
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)						
bis(2-CHLOROISOPROPYL) ETHER						
bis(2-ETHYLHEXYL) PHTHALATE						
4-BROMOPHENYL PHENYL ETHER						
BENZO(a)ANTHRACENE						
BENZOIC ACID						
BENZO(a)PYRENE						
BENZO(b)FLUORANTHENE						
BENZIDINE						
BENZO(g,h,i)PERYLENE						
BENZO(k)FLUORANTHENE						
BENZYL ALCOHOL						
4-CHLORO-3-METHYLPHENOL						
CHRYSENE						
4-CHLOROANILINE						
2-CHLOROPHENOL						
2-CHLORONAPHTHALENE						
4-CHLOROPHENYL PHENYL ETHER						
DIBENZ(a,h)ANTHRACENE						
DIBENZOFURAN						
3,3'-DICHLOROBENZIDINE						
1,2-DICHLOROBENZENE	< .5	< .5	< .5	< .5		
1,3-DICHLOROBENZENE	< .5	< .5	< .5	< .5		

Semivolatiles in Ground Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	WELL #40				WELL #42	
(Bldg. Number)	(5-800)				(11-200)	
Location ID	687-PG-040				687-PG-042	
Sample ID	GP890050	GP890105	GP890105	GP912048	GP880010	GP880107
Sample Date	890725	891218	891218	910314	880316	880624
Lab Sample ID	89042557	021001	89070997	91012672	88032304	88062905
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,4-DICHLOROBENZENE	< .7	< .7	< .7	< .5		
DICHLOROBENZENES					< 1	< 1
2,4-DICHLOROPHENOL						
DIETHYL PHTHALATE						
2,4-DIMETHYLPHENOL						
DIMETHYL PHTHALATE						
4,6-DINITRO-2-METHYLPHENOL						
DI-n-BUTYL PHTHALATE						
DI-n-OCTYL PHTHALATE (bis-(2-ETHYLHEXYL)PHTHALATE)						
2,4-DINITROPHENOL						
2,4-DINITROTOLUENE						
2,6-DINITROTOLUENE						
1,2-DIPHENYLHYDRAZINE						
FLUORENE						
FLUORANTHENE						
HEXACHLOROBUTADIENE	< .5		< .5	< .5		
HEXACHLOROCYCLOPENTADIENE						
HEXACHLOROBENZENE						
HEXACHLOROETHANE						
INDENO(1,2,3-c,d)PYRENE						
ISOPHORONE						
2-METHYLPHENOL (o-CRESOL)						
4-METHYLPHENOL (p-CRESOL)						
2-METHYLNAPHTHALENE						
NAPHTHALENE	< .6		< .6	< .6		
N-NITROSODIMETHYLAMINE						
N-NITROSODIPHENYLAMINE						
N-NITROSODI-n-PROPYLAMINE						
2-NITROANILINE						

Semivolatiles in Ground Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	WELL #40				WELL #42	
(Bldg. Number)	(5-800)				(11-200)	
Location ID	687-PG-040				687-PG-042	
Sample ID	GP890050	GP890105	GP890105	GP912048	GP880010	GP880107
Sample Date	890725	891218	891218	910314	880316	880624
Lab Sample ID	89042557	021001	89070997	91012672	88032304	88062905
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
3-NITROANILINE						
4-NITROANILINE						
NITROBENZENE						
2-NITROPHENOL						
4-NITROPHENOL						
PENTACHLOROPHENOL						
PHENANTHRENE						
PHENOL						
PYRENE						
SURFACTANTS						
1,2,4-TRICHLOROBENZENE	< 1.4		< 1.4	< 1.4		
2,4,5-TRICHLOROPHENOL						
2,4,6-TRICHLOROPHENOL						
TETRACHLOROPHENOLS, TOTAL						

< = Less than detection limit

Semivolatiles in Ground Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	WELL #42					WELL #43
(Bldg. Number)	(11-200)					(24-800)
Location ID	687-PG-042					687-PG-043
Sample ID	GP880153	GP890029	GP890049	GP890106	GP890106	GP880011
Sample Date	880920	890530	890725	891218	891218	880316
Lab Sample ID	88092305	31224	89042556	021001	89070998	88032305
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ACENAPHTHALENE						
ACENAPHTHENE						
ANILINE (PHENYLAMINE, AMINOBENZENE)						
ANTHRACENE						
BENZYL BUTYL PHTHALATE						
bis(2-CHLOROETHOXY) METHANE						
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)						
bis(2-CHLOROISOPROPYL) ETHER						
bis(2-ETHYLHEXYL) PHTHALATE						
4-BROMOPHENYL PHENYL ETHER						
BENZO(a)ANTHRACENE						
BENZOIC ACID						
BENZO(a)PYRENE						
BENZO(b)FLUORANTHENE						
BENZIDINE						
BENZO(g,h,i)PERYLENE						
BENZO(k)FLUORANTHENE						
BENZYL ALCOHOL						
4-CHLORO-3-METHYLPHENOL						
CHRYSENE						
4-CHLOROANILINE						
2-CHLOROPHENOL						
2-CHLORONAPHTHALENE						
4-CHLOROPHENYL PHENYL ETHER						
DIBENZ(a,h)ANTHRACENE						
DIBENZOFURAN						
3,3'-DICHLOROBENZIDINE						
1,2-DICHLOROBENZENE		< .5	< .5	< .5	< .5	
1,3-DICHLOROBENZENE		< .5	< .5	< .5	< .5	

Semivolatiles in Ground Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	WELL #42					WELL #43
(Bldg. Number)	(11-200)					(24-800)
Location ID	687-PG-042					687-PG-043
Sample ID	GP880153	GP890029	GP890049	GP890106	GP890106	GP880011
Sample Date	880920	890530	890725	891218	891218	880316
Lab Sample ID	88092305	31224	89042556	021001	89070998	88032305
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,4-DICHLOROBENZENE		< .5	< .7	< .7	< .7	
DICHLOROBENZENES	< 1					< 1
2,4-DICHLOROPHENOL						
DIETHYL PHTHALATE						
2,4-DIMETHYLPHENOL						
DIMETHYL PHTHALATE						
4,6-DINITRO-2-METHYLPHENOL						
DI-n-BUTYL PHTHALATE						
DI-n-OCTYL PHTHALATE (bis-(2-ETHYLHEXYL)PHTHALATE)						
2,4-DINITROPHENOL						
2,4-DINITROTOLUENE						
2,6-DINITROTOLUENE						
1,2-DIPHENYLHYDRAZINE						
FLUORENE						
FLUORANTHENE						
HEXACHLOROBUTADIENE		< .5	< .5		< .5	
HEXACHLOROCYCLOPENTADIENE						
HEXACHLOROBENZENE						
HEXACHLOROETHANE						
INDENO(1,2,3-c,d)PYRENE						
ISOPHORONE						
2-METHYLPHENOL (o-CRESOL)						
4-METHYLPHENOL (p-CRESOL)						
2-METHYLNAPHTHALENE						
NAPHTHALENE		< .5	< .6		< .6	
N-NITROSODIMETHYLAMINE						
N-NITROSODIPHENYLAMINE						
N-NITROSODI-n-PROPYLAMINE						
2-NITROANILINE						

Semivolatiles in Ground Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	WELL #42					WELL #43
(Bldg. Number)	(11-200)					(24-800)
Location ID	687-PG-042					687-PG-043
Sample ID	GP880153	GP890029	GP890049	GP890106	GP890106	GP880011
Sample Date	880920	890530	890725	891218	891218	880316
Lab Sample ID	88092305	31224	89042556	021001	89070998	88032305
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
3-NITROANILINE						
4-NITROANILINE						
NITROBENZENE						
2-NITROPHENOL						
4-NITROPHENOL						
PENTACHLOROPHENOL						
PHENANTHRENE						
PHENOL						
PYRENE						
SURFACTANTS						
1,2,4-TRICHLOROBENZENE		< .5	< 1.4		< 1.4	
2,4,5-TRICHLOROPHENOL						
2,4,6-TRICHLOROPHENOL						
TETRACHLOROPHENOLS, TOTAL						

< = Less than detection limit

Semivolatiles in Ground Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	WELL #43					
(Bldg. Number)	(24-800)					
Location ID	687-PG-043					
Sample ID	GP880104	GP880150	GP890006	GP890014	GP890033	GP890048
Sample Date	880624	880920	890124	890124	890530	890725
Lab Sample ID	88062902	88092302	89012707	4413	31232	89044539
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ACENAPHTHALENE						
ACENAPHTHENE						
ANILINE (PHENYLAMINE, AMINOBENZENE)						
ANTHRACENE						
BENZYL BUTYL PHTHALATE						
bis(2-CHLOROETHOXY) METHANE						
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)						
bis(2-CHLOROISOPROPYL) ETHER						
bis(2-ETHYLHEXYL) PHTHALATE						
4-BROMOPHENYL PHENYL ETHER						
BENZO(a)ANTHRACENE						
BENZOIC ACID						
BENZO(a)PYRENE						
BENZO(b)FLUORANTHENE						
BENZIDINE						
BENZO(g,h,i)PERYLENE						
BENZO(k)FLUORANTHENE						
BENZYL ALCOHOL						
4-CHLORO-3-METHYLPHENOL						
CHRYSENE						
4-CHLOROANILINE						
2-CHLOROPHENOL						
2-CHLORONAPHTHALENE						
4-CHLOROPHENYL PHENYL ETHER						
DIBENZ(a,h)ANTHRACENE						
DIBENZOFURAN						
3,3'-DICHLOROBENZIDINE						
1,2-DICHLOROBENZENE			< 1	< .5	< .5	< .5
1,3-DICHLOROBENZENE			< 1	< .5	< .5	< .5

Semivolatiles in Ground Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	WELL #43					
(Bldg. Number)	(24-800)					
Location ID	687-PG-043					
Sample ID	GP880104	GP880150	GP890006	GP890014	GP890033	GP890048
Sample Date	880624	880920	890124	890124	890530	890725
Lab Sample ID	88062902	88092302	89012707	4413	31232	89044539
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,4-DICHLOROBENZENE			< 1	< .5	< .5	< .7
DICHLOROBENZENES	< 1	< 1				
2,4-DICHLOROPHENOL						
DIETHYL PHTHALATE						
2,4-DIMETHYLPHENOL						
DIMETHYL PHTHALATE						
4,6-DINITRO-2-METHYLPHENOL						
DI-n-BUTYL PHTHALATE						
DI-n-OCTYL PHTHALATE (bis-(2-ETHYLHEXYL)PHTHALATE)						
2,4-DINITROPHENOL						
2,4-DINITROTOLUENE						
2,6-DINITROTOLUENE						
1,2-DIPHENYLHYDRAZINE						
FLUORENE						
FLUORANTHENE						
HEXACHLOROBUTADIENE				< .5	< .5	< .5
HEXACHLOROCYCLOPENTADIENE						
HEXACHLOROBENZENE						
HEXACHLOROETHANE						
INDENO(1,2,3-c,d)PYRENE						
ISOPHORONE						
2-METHYLPHENOL (o-CRESOL)						
4-METHYLPHENOL (p-CRESOL)						
2-METHYLNAPHTHALENE						
NAPHTHALENE				< .5	< .5	< .6
N-NITROSODIMETHYLAMINE						
N-NITROSODIPHENYLAMINE						
N-NITROSODI-n-PROPYLAMINE						
2-NITROANILINE						

Semivolatiles in Ground Water
Eimendorf AFB, AK
Bioenvironmental Services

Site Name	WELL #43					
(Bldg. Number)	(24-800)					
Location ID	687-PG-043					
Sample ID	GP880104	GP880150	GP890006	GP890014	GP890033	GP890048
Sample Date	880624	880920	890124	890124	890530	890725
Lab Sample ID	88062902	88092302	89012707	4413	31232	89044539
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
3-NITROANILINE						
4-NITROANILINE						
NITROBENZENE						
2-NITROPHENOL						
4-NITROPHENOL						
PENTACHLOROPHENOL						
PHENANTHRENE						
PHENOL						
PYRENE						
SURFACTANTS						
1,2,4-TRICHLOROBENZENE				< .5	< .5	< 1.4
2,4,5-TRICHLOROPHENOL						
2,4,6-TRICHLOROPHENOL						
TETRACHLOROPHENOLS, TOTAL						

< = Less than detection limit

Semivolatiles in Ground Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	WELL #43		WELL #46	WELL #47	WELL #49	WELL #50
(Bldg. Number)	(24-800)		(63-621)	(63-740)	(52-560)	(24-300)
Location ID	687-PG-043		687-PG-046	687-PG-047	687-PG-049	687-PG-050
Sample ID	GP890107	GP890107	GP840326	GP840327	GP840328	GP840329
Sample Date	891218	891218	840702	840702	840702	840702
Lab Sample ID	021001	89070999	39290	39293	39305	39308
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
ACENAPHTHALENE						
ACENAPHTHENE						
ANILINE (PHENYLAMINE, AMINOBENZENE)						
ANTHRACENE						
BENZYL BUTYL PHTHALATE						
bis(2-CHLOROETHOXY) METHANE						
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)						
bis(2-CHLOROISOPROPYL) ETHER						
bis(2-ETHYLHEXYL) PHTHALATE						
4-BROMOPHENYL PHENYL ETHER						
BENZO(a)ANTHRACENE						
BENZOIC ACID						
BENZO(a)PYRENE						
BENZO(b)FLUORANTHENE						
BENZIDINE						
BENZO(g,h,i)PERYLENE						
BENZO(k)FLUORANTHENE						
BENZYL ALCOHOL						
4-CHLORO-3-METHYLPHENOL						
CHRYSENE						
4-CHLOROANILINE						
2-CHLOROPHENOL						
2-CHLORONAPHTHALENE						
4-CHLOROPHENYL PHENYL ETHER						
DIBENZ(a,h)ANTHRACENE						
DIBENZOFURAN						
3,3'-DICHLOROBENZIDINE						
1,2-DICHLOROBENZENE	< .5	< .5				
1,3-DICHLOROBENZENE	< .5	< .5				

Semivolatiles in Ground Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	WELL #43		WELL #46	WELL #47	WELL #49	WELL #50
(Bldg. Number)	(24-800)		(63-621)	(63-740)	(52-560)	(24-300)
Location ID	687-PG-043		687-PG-046	687-PG-047	687-PG-049	687-PG-050
Sample ID	GP890107	GP890107	GP840326	GP840327	GP840328	GP840329
Sample Date	891218	891218	840702	840702	840702	840702
Lab Sample ID	021001	89070999	39290	39293	39305	39308
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
1,4-DICHLOROBENZENE	< .7	< .7				
DICHLOROBENZENES						
2,4-DICHLOROPHENOL						
DIETHYL PHTHALATE						
2,4-DIMETHYLPHENOL						
DIMETHYL PHTHALATE						
4,6-DINITRO-2-METHYLPHENOL						
DI-n-BUTYL PHTHALATE						
DI-n-OCTYL PHTHALATE (bis-(2-ETHYLHEXYL)PHTHALATE)						
2,4-DINITROPHENOL						
2,4-DINITROTOLUENE						
2,6-DINITROTOLUENE						
1,2-DIPHENYLHYDRAZINE						
FLUORENE						
FLUORANTHENE						
HEXACHLOROBUTADIENE		< .5				
HEXACHLOROCYCLOPENTADIENE						
HEXACHLOROBENZENE						
HEXACHLOROETHANE						
INDENO(1,2,3-c,d)PYRENE						
ISOPHORONE						
2-METHYLPHENOL (o-CRESOL)						
4-METHYLPHENOL (p-CRESOL)						
2-METHYLNAPHTHALENE						
NAPHTHALENE		< .6				
N-NITROSODIMETHYLAMINE						
N-NITROSODIPHENYLAMINE						
N-NITROSODI-n-PROPYLAMINE						
2-NITROANILINE						

Semivolatiles in Ground Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	WELL #43		WELL #46	WELL #47	WELL #49	WELL #50
(Bldg. Number)	(24-800)		(63-621)	(63-740)	(52-560)	(24-300)
Location ID	687-PG-043		687-PG-046	687-PG-047	687-PG-049	687-PG-050
Sample ID	GP890107	GP890107	GP840326	GP840327	GP840328	GP840329
Sample Date	891218	891218	840702	840702	840702	840702
Lab Sample ID	021001	89070999	39290	39293	39305	39308
Units	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
3-NITROANILINE						
4-NITROANILINE						
NITROBENZENE						
2-NITROPHENOL						
4-NITROPHENOL						
PENTACHLOROPHENOL						
PHENANTHRENE						
PHENOL			< 10	< 10	< 10	< 10
PYRENE						
SURFACTANTS						
1,2,4-TRICHLOROBENZENE		< 1.4				
2,4,5-TRICHLOROPHENOL						
2,4,6-TRICHLOROPHENOL						
TETRACHLOROPHENOLS, TOTAL						

< = Less than detection limit

Semivolatiles in Ground Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name (Bldg. Number) Location ID	WELL #51 (63-501) 687-PG-051	WELL #53 (62-145) 687-PG-053	WELL #8 (52-140) 687-PG-008
Sample ID	GP841021	GP840331	GP840318
Sample Date	841127	840702	840705
Lab Sample ID	70497	39325	39235
Units	µg/l	µg/l	µg/l
ACENAPHTHALENE			
ACENAPHTHENE			
ANILINE (PHENYLAMINE, AMINOBENZENE)			
ANTHRACENE			
BENZYL BUTYL PHTHALATE			
bis(2-CHLOROETHOXY) METHANE			
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)			
bis(2-CHLOROISOPROPYL) ETHER			
bis(2-ETHYLHEXYL) PHTHALATE			
4-BROMOPHENYL PHENYL ETHER			
BENZO(a)ANTHRACENE			
BENZOIC ACID			
BENZO(a)PYRENE			
BENZO(b)FLUORANTHENE			
BENZIDINE			
BENZO(g,h,i)PERYLENE			
BENZO(k)FLUORANTHENE			
BENZYL ALCOHOL			
4-CHLORO-3-METHYLPHENOL			
CHRYSENE			
4-CHLOROANILINE			
2-CHLOROPHENOL			
2-CHLORONAPHTHALENE			
4-CHLOROPHENYL PHENYL ETHER			
DIBENZ(a,h)ANTHRACENE			
DIBENZOFURAN			
3,3'-DICHLOROBENZIDINE			
1,2-DICHLOROBENZENE			
1,3-DICHLOROBENZENE			

Semivolatiles in Ground Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name (Bldg. Number) Location ID	WELL #51 (63-501) 687-PG-051	WELL #53 (62-145) 687-PG-053	WELL #8 (52-140) 687-PG-008
Sample ID	GP841021	GP840331	GP840318
Sample Date	841127	840702	840705
Lab Sample ID	70497	39325	39235
Units	µg/l	µg/l	µg/l
1,4-DICHLOROBENZENE			
DICHLOROBENZENES			
2,4-DICHLOROPHENOL			
DIETHYL PHTHALATE			
2,4-DIMETHYLPHENOL			
DIMETHYL PHTHALATE			
4,6-DINITRO-2-METHYLPHENOL			
DI-n-BUTYL PHTHALATE			
DI-n-OCTYL PHTHALATE (bis-(2-ETHYLHEXYL)PHTHALATE)			
2,4-DINITROPHENOL			
2,4-DINITROTOLUENE			
2,6-DINITROTOLUENE			
1,2-DIPHENYLHYDRAZINE			
FLUORENE			
FLUORANTHENE			
HEXACHLOROBUTADIENE			
HEXACHLOROCYCLOPENTADIENE			
HEXACHLOROBENZENE			
HEXACHLOROETHANE			
INDENO(1,2,3-c,d)PYRENE			
ISOPHORONE			
2-METHYLPHENOL (o-CRESOL)			
4-METHYLPHENOL (p-CRESOL)			
2-METHYLNAPHTHALENE			
NAPHTHALENE			
N-NITROSODIMETHYLAMINE			
N-NITROSODIPHENYLAMINE			
N-NITROSODI-n-PROPYLAMINE			
2-NITROANILINE			

Semivolatiles in Ground Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name (Bldg. Number) Location ID	WELL #51 (63-501) 687-PG-051	WELL #53 (62-145) 687-PG-053	WELL #8 (52-140) 687-PG-008
Sample ID	GP841021	GP840331	GP840318
Sample Date	841127	840702	840705
Lab Sample ID	70497	39325	39235
Units	µg/l	µg/l	µg/l
3-NITROANILINE			
4-NITROANILINE			
NITROBENZENE			
2-NITROPHENOL			
4-NITROPHENOL			
PENTACHLOROPHENOL			
PHENANTHRENE			
PHENOL	< 10	< 10	< 10
PYRENE			
SURFACTANTS			
1,2,4-TRICHLOROBENZENE			
2,4,5-TRICHLOROPHENOL			
2,4,6-TRICHLOROPHENOL			
TETRACHLOROPHENOLS, TOTAL			

< = Less than detection limit

POL PRODUCTS IN
WATER

POL Products in Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name (Bldg. Number) Location ID		POST ROAD GATE RUNOFF 687-NO-407							
Sample ID	POTW 1118	GN900105	GN900106	GN900158	GN900159	GN900293	GN912098	GN912099	GN912223
Sample Date	871118	900417	900417	900625	900625	901007	910501	910501	910722
Lab Sample ID									
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
OIL & GREASE, TOTAL REC	3.1		< .3		< .3	< .3		< .3	
TOTAL TRIHALOMETHANES									
TOTAL ORGANIC CARBON	3	< 1		4		3	3		5
TOTAL HYDROCARBONS			< 1		< 1	< 1		< 1	

< = less than detection limit
ND = not detected

POL Products in Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	POST ROAD				TEST WELL #1	CHERRY HILL DITCH	
(Bldg. Number)	GATE					OUTFALL	
Location ID	687-NO-407				687-NG-601	687-NO-401	
Sample ID	GN912224	GN912322	GN912323	GN880028	GN912263	CHHILL0184	CHHILL0185
Sample Date	910722	911021	911021	880405	910806	840101	850101
Lab Sample ID							
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
OIL & GREASE, TOTAL REC	< .3		< .3	< .3		.3	.3
TOTAL TRIHALOMETHANES							
TOTAL ORGANIC CARBON		2					
TOTAL HYDROCARBONS	< 1		< 1		3		

< = less than detection limit
ND = not detected

POL Products in Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	**CHERRY HILL DITCH**					
(Bldg. Number)	**OUTFALL**					
Location ID	**687-NO-401**					
Sample ID	**CHHILL0284**	**CHHILL0285**	**CHHILL0384**	**CHHILL0385**	**CHHILL0386**	**CHHILL0484**
Sample Date	**840201**	**850201**	**840301**	**850301**	**860301**	**840401**
Lab Sample ID						
Units	**mg/l**	**mg/l**	**mg/l**	**mg/l**	**mg/l**	**mg/l**
OIL & GREASE, TOTAL REC	1	1	3.5	.4	< .3	.8
TOTAL TRIHALOMETHANES						
TOTAL ORGANIC CARBON						
TOTAL HYDROCARBONS						

< = less than detection limit
ND = not detected

POL Products in Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	**CHERRY HILL DITCH**						
(Bldg. Number)	**OUTFALL**						
Location ID	**687-NO-401**						
Sample ID	**CHHILL0485**	**CHHILL0584**	**CHHILL0585**	**CHHILL0684**	**CHHILL0685**	**CHHILL0686**	**CHHILL0784**
Sample Date	**850401**	**840501**	**850501**	**840601**	**850601**	**860601**	**840701**
Lab Sample ID							
Units	**mg/l**	**mg/l**	**mg/l**	**mg/l**	**mg/l**	**mg/l**	**mg/l**
OIL & GREASE, TOTAL REC	2.6	< .3	.9	< .3	1.5	< .3	1.4
TOTAL TRIHALOMETHANES							
TOTAL ORGANIC CARBON							
TOTAL HYDROCARBONS							

< = less than detection limit
ND = not detected

POL Products in Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	CHERRY HILL DITCH						
(Bldg. Number)	OUTFALL						
Location ID	687-NO-401						
Sample ID	CHHILL0785	CHHILL0884	CHHILL0885	CHHILL0984	CHHILL0986	CHHILL1084	CHHILL1184
Sample Date	850701	840801	850801	840901	860901	841001	841101
Lab Sample ID							
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
OIL & GREASE, TOTAL REC	.6	< .3	< .3	< .3	< .3	5.5	< .3
TOTAL TRIHALOMETHANES							
TOTAL ORGANIC CARBON							
TOTAL HYDROCARBONS							

< = less than detection limit
ND = not detected

POL Products in Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	CHERRY HILL DITCH							
(Bldg. Number)	OUTFALL							
Location ID	687-NO-401							
Sample ID	CHHILL1185	CHHILL1186	CHHILL1284	GN870177	GN870451	GN870703	GN870845	GN880022
Sample Date	851101	861101	841201	870330	870624	870923	871119	880329
Lab Sample ID								
Units		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
OIL & GREASE, TOTAL REC	< .3	< .3	.3	.51	< .3	< .3	< .3	< .3
TOTAL TRIHALOMETHANES								
TOTAL ORGANIC CARBON								
TOTAL HYDROCARBONS								

< = less than detection limit
ND = not detected

POL Products in Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	CHERRY HILL DITCH							
(Bldg. Number)	OUTFALL							
Location ID	687-NO-401							
Sample ID	GN880113	GN880164	GN880208	GN890017	GN890040	GN890077	GN900089	GN900090
Sample Date	880629	880923	881115	890328	890629	891030	900417	900417
Lab Sample ID								
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
OIL & GREASE, TOTAL REC	< .3	< .3	10.4	< .3	.6	< .3		< .3
TOTAL TRIHALOMETHANES								
TOTAL ORGANIC CARBON		4	2	15	4	< 1	< 1	
TOTAL HYDROCARBONS								< 1

< = less than detection limit
ND = not detected

POL Products in Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	CHERRY HILL DITCH							
(Bldg. Number)	OUTFALL							
Location ID	687-NO-401							
Sample ID	GN900142	GN900143	GN900281	GN912076	GN912077	GN912244	GN912245	GN912342
Sample Date	900625	900625	901007	910423	910423	910724	910724	911023
Lab Sample ID								
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
OIL & GREASE, TOTAL REC		< .3	< .3		< .3		< .3	
TOTAL TRIHALOMETHANES								
TOTAL ORGANIC CARBON	6		6	4		1		3
TOTAL HYDROCARBONS		< 1	< 1		< 1		< 1	

< = less than detection limit
ND = not detected

POL Products in Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	CHERRY HILL DITCH	GOVERNMENT HILL					
(Bldg. Number)	OUTFALL	STORM DRAIN OUTFALL					
Location ID	687-NO-401	687-NO-406					
Sample ID	GN912343	GN870178	GN870452	GN870707	GN880023	GN880114	GN880165
Sample Date	911023	870330	870624	870923	880329	880629	880923
Lab Sample ID							
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
OIL & GREASE, TOTAL REC	< .3	.78	< .3	.4	1.2		< .3
TOTAL TRIHALOMETHANES							
TOTAL ORGANIC CARBON						4	3
TOTAL HYDROCARBONS	< 1						

< = less than detection limit
ND = not detected

POL Products in Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	GOVERNMENT HILL							
(Bldg. Number)	STORM DRAIN OUTFALL							
Location ID	687-NO-406							
Sample ID	GN890037	GN890063	GN890080	GN900101	GN900102	GN900166	GN900167	GN900290
Sample Date	890628	890821	891030	900417	900417	900625	900625	901007
Lab Sample ID								
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
OIL & GREASE, TOTAL REC	.4	< .3	< .3		< .3		< .3	< .3
TOTAL TRIHALOMETHANES								
TOTAL ORGANIC CARBON	6	2	< 1	5		5		5
TOTAL HYDROCARBONS			< 1		< 1		< 1	< 1

< = less than detection limit
ND = not detected

POL Products in Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	GOVERNMENT HILL STORM						
(Bldg. Number)	DRAIN OUTFALL						
Location ID	687-NO-406						
Sample ID	GN912071	GN912072	GN912239	GN912240	GN912347	GN912348	GN870174
Sample Date	910423	910423	910724	910724	911023	911023	870330
Lab Sample ID							
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
OIL & GREASE, TOTAL REC		< .3		< .3		< .3	.39
TOTAL TRIHALOMETHANES							
TOTAL ORGANIC CARBON	5		3		4		
TOTAL HYDROCARBONS		< 1		< 1		< 1	

< = less than detection limit
ND = not detected

POL Products in Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	SHIP CREEK								
(Bldg. Number)	I								
Location ID	687-NS-404								
Sample ID	GN870449	GN870705	GN870847	GN880024	GN880098	GN880162	GN880211	GN890019	GN890061
Sample Date	870701	870923	871119	880329	880614	880923	881115	890328	890821
Lab Sample ID									
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
OIL & GREASE, TOTAL REC	< .3	.4	< .3	< .3	< .3	< .3	< .3	< .3	< .3
TOTAL TRIHALOMETHANES									
TOTAL ORGANIC CARBON					< 1	1	< 1	< 1	< 1
TOTAL HYDROCARBONS									

< = less than detection limit
ND = not detected

POL Products in Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	SHIP CREEK								
(Bldg. Number)	I								
Location ID	687-NS-404								
Sample ID	GN900150	GN900199	GN900284	GN912088	GN912089	GN912228	GN912229	GN912337	GN91338
Sample Date	900625	900627	901007	910429	910429	910722	910722	911022	911022
Lab Sample ID									
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
OIL & GREASE, TOTAL REC		< .3	< .3		< .3		< .3		< .3
TOTAL TRIHALOMETHANES									
TOTAL ORGANIC CARBON	3		3	3		2		2	
TOTAL HYDROCARBONS		< 1	< 1		< 1		< 1		< 1

< = less than detection limit
ND = not detected

POL Products in Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	SHIP CREEK								
(Bldg. Number)	II								
Location ID	687-NS-405								
Sample ID	GN870179	GN870450	GN870706	GN870848	GN880018	GN880099	GN880159	GN880212	GN890038
Sample Date	870301	870701	870923	871201	880301	880601	880901	881101	890628
Lab Sample ID									
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
OIL & GREASE, TOTAL REC	< .3	< .3	< .3	< .3	< .3	< .3	< .3	< .3	< .3
TOTAL TRIHALOMETHANES									
TOTAL ORGANIC CARBON						1	< 1	< 1	2
TOTAL HYDROCARBONS									

< = less than detection limit
ND = not detected

POL Products in Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	SHIP CREEK								
(Bldg. Number)	II								
Location ID	687-NS-405								
Sample ID	GN890062	GN890078	GN900097	GN900098	GN900154	GN900155	GN900287	GN912093	GN912094
Sample Date	890911	891030	900417	900417	900625	900625	901007	910501	910501
Lab Sample ID									
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
OIL & GREASE, TOTAL REC	< .3	< .3		< .3		< .3	< .3		< .3
TOTAL TRIHALOMETHANES									
TOTAL ORGANIC CARBON	< 1	< 1	< 1		3		2	3	
TOTAL HYDROCARBONS		< 1		< 1		< 1	< 1		< 1

< = less than detection limit
ND = not detected

POL Products in Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	SHIP CREEK				SIX MILE LAKE					
(Bldg. Number)	II				OUTFALL					
Location ID	687-NS-405				687-NS-403					
Sample ID	GN912233	GN912234	GN912327	GN912328	0184	0185	0284	0285	0384	0385
Sample Date	910722	910722	911021	911021	840101	850101	840101	850101	840101	850101
Lab Sample ID										
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
OIL & GREASE, TOTAL REC		< .3		< .3	< .3	< .3	< .3	< .3	.6	< .3
TOTAL TRIHALOMETHANES										
TOTAL ORGANIC CARBON	1		< 1							
TOTAL HYDROCARBONS		< 1		< 1						

< = less than detection limit
ND = not detected

POL Products in Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	SIX MILE LAKE											
(Bldg. Number)	OUTFALL											
Location ID	687-NS-403											
Sample ID	0386	0484	0485	0584	0585	0684	0685	0686	0784	0785	0884	0885
Sample Date	860101	840101	850101	840101	850101	840101	850101	860101	840101	850101	840101	850101
Lab Sample ID												
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
OIL & GREASE, TOTAL REC	< .3	.6	< .5	< .3	6	< .3	< .5	5.6	< .3	< .3	< .3	< .3
TOTAL TRIHALOMETHANES												
TOTAL ORGANIC CARBON												
TOTAL HYDROCARBONS												

< = less than detection limit
ND = not detected

POL Products in Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	SIX MILE LAKE										
(Bldg. Number)	OUTFALL										
Location ID	687-NS-403										
Sample ID	0984	0985	0986	1084	1184	1185	1186	1284	GN870176	GN870453	GN870704
Sample Date	840101	850101	860101	840101	840101	850101	860101	840101	870330	870624	870923
Lab Sample ID											
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
OIL & GREASE, TOTAL REC	< .3	< .3	< .3	< .3	< .3	< .3	< .3	< .3	.39	< .3	< .3
TOTAL TRIHALOMETHANES											
TOTAL ORGANIC CARBON											
TOTAL HYDROCARBONS											

< = less than detection limit
ND = not detected

POL Products in Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	SIX MILE LAKE								
(Bldg. Number)	OUTFALL								
Location ID	687-NS-403								
Sample ID	GN870846	GN880025	GN880103	GN880163	GN880210	GN890018	GN890020	GN890041	GN890058
Sample Date	871119	880331	880623	880923	881115	890328	890301	900629	890821
Lab Sample ID									
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
OIL & GREASE, TOTAL REC	< .3	< .3	< .3	< .3	< .3	< .3	.8	< .3	< .3
TOTAL TRIHALOMETHANES									
TOTAL ORGANIC CARBON			4	5	4	< 1	< 1	4	2
TOTAL HYDROCARBONS									

< = less than detection limit
ND = not detected

POL Products in Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	SIX MILE LAKE								
(Bldg. Number)	OUTFALL								
Location ID	687-NS-403								
Sample ID	GN890081	GN900093	GN900094	GN900146	GN900147	GN900278	GN912106	GN912107	GN912249
Sample Date	891030	900417	900417	900625	900625	901212	910515	910515	910724
Lab Sample ID									
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
OIL & GREASE, TOTAL REC	< .3		< .3		< .3	< .3		< .3	
TOTAL TRIHALOMETHANES									
TOTAL ORGANIC CARBON	< 1	< 1		6		3	6		4
TOTAL HYDROCARBONS	< 1		< 1		< 1	< 1		< 1	

< = less than detection limit
ND = not detected

POL Products in Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	SIX MILE LAKE			TEST WELL	TEST WELL		TEST WELL	WELL #1
(Bldg. Number)	OUTFALL			#2	#3		#4	(23-990)
Location ID	687-NS-403			687-NG-602	687-NG-603		687-NG-604	687-PG-001
Sample ID	GN912250	GN912332	GN912352	GN912260	GN912269	WELL-3-91	GN912266	GP870510
Sample Date	910724	911022	911029	910805	910807	910101	910806	
Lab Sample ID								
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
OIL & GREASE, TOTAL REC	< .3		< .3					
TOTAL TRIHALOMETHANES								< 100
TOTAL ORGANIC CARBON		4						
TOTAL HYDROCARBONS	< 1		< 1	6.4	6	.6	.6	

< = less than detection limit
ND = not detected

POL Products in Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	WELL #16	WELL #2	WELL #24			WELL #25			WELL #27
(Bldg. Number)	(32-189)	(22-001)	(52-668)			(63-320)			(62-250)
Location ID	687-PG-016	687-PG-002	687-PG-024			687-PG-025			687-PG-027
Sample ID	GP870513	GP870511	52-668-87	GP840319	GP870514	63-320-87	GP870663	GP870785	62-250-87
Sample Date	870727	870721	870101	840702	870721	870101	870902	871104	870101
Lab Sample ID									
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
OIL & GREASE, TOTAL REC				< .3					
TOTAL TRIHALOMETHANES	< 100	< 100	< 100		< .1	< 100	< 1	< .1	< 100
TOTAL ORGANIC CARBON				2					
TOTAL HYDROCARBONS									

< = less than detection limit
ND = not detected

POL Products in Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	WELL #27			WELL #29			WELL #39		WELL #4
(Bldg. Number)	(62-250)			(42-500)			(35-750)		(63-600)
Location ID	687-PG-027			687-PG-029			687-PG-039		687-PG-004
Sample ID	GP840320	GP870524	WELL#27	42-500-87	GP840321	GP870526	GP840322	GP870527	63-600-87
Sample Date	840702	870727	880519	870101	840702	870727	840702	870727	870101
Lab Sample ID									
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
OIL & GREASE, TOTAL REC	< .3				< .3		< .3		
TOTAL TRIHALOMETHANES		< 100		< 100		< 100		< 100	< 100
TOTAL ORGANIC CARBON	2				2		2		
TOTAL HYDROCARBONS			.07						

< = less than detection limit
ND = not detected

POL Products in Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	WELL #4		WELL #40		WELL #42	WELL #43	WELL #46		
(Bldg. Number)	(63-600)		(5-800)		(11-200)	(24-800)	(63-621)		
Location ID	687-PG-004		687-PG-040		687-PG-042	687-PG-043	687-PG-046		
Sample ID	GP840317	GP870786	5-800-87	GP870528	GP870558	GP870559	63-621-87	GP840326	GP870562
Sample Date	840702	871104	870101	870727	870805	870805	870101	840702	870805
Lab Sample ID									
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
OIL & GREASE, TOTAL REC	< .3							< .3	
TOTAL TRIHALOMETHANES		< 100	< 100	< 100	< 100	< 100	< 100		< 100
TOTAL ORGANIC CARBON	3							2	
TOTAL HYDROCARBONS									

< = less than detection limit
ND = not detected

POL Products in Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	WELL #47			WELL #49			WELL #50	
(Bldg. Number)	(63-740)			(52-560)			(24-300)	
Location ID	687-PG-047			687-PG-049			687-PG-050	
Sample ID	63-740-87	GP840327	GP870787	52-560-87	GP840328	GP870561	24-300-84	24-300-87
Sample Date	870101	840702	871104	870101	840702	870805	840702	870101
Lab Sample ID								
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
OIL & GREASE, TOTAL REC		< .3			< .3			
TOTAL TRIHALOMETHANES	ND		< 1	< 100		< 100		< 100
TOTAL ORGANIC CARBON		4			2			
TOTAL HYDROCARBONS								

< = less than detection limit
ND = not detected

POL Products in Water
Elmendorf AFB, AK
Bioenvironmental Services

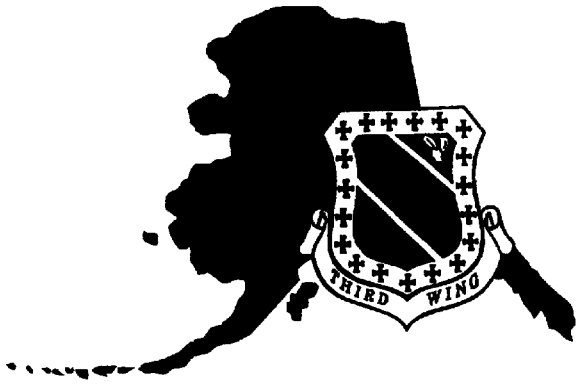
Site Name	**WELL #50**			**WELL #51**			**WELL #53**	
(Bldg. Number)	**(24-300)**			**(63-501)**			**(62-145)**	
Location ID	**687-PG-050**			**687-PG-051**			**687-PG-053**	
Sample ID	**24-300-87**	**GP840329**	**GP870560**	**63-501-87**	**GP841021**	**GP870575**	**GP840331**	**GP870574**
Sample Date	**870805**	**840702**	**870805**	**870101**	**841127**	**870811**	**840702**	**870811**
Lab Sample ID								
Units	**mg/l**	**mg/l**	**mg/l**	**mg/l**	**mg/l**	**mg/l**	**mg/l**	**mg/l**
OIL & GREASE, TOTAL REC		< .3			< .3		< .3	
TOTAL TRIHALOMETHANES			< 100	< 100		< 100		< 100
TOTAL ORGANIC CARBON		2					2	
TOTAL HYDROCARBONS								

< = less than detection limit
ND = not detected

POL Products in Water
Elmendorf AFB, AK
Bioenvironmental Services

Site Name	**WELL #8**		
(Bldg. Number)	**(52-140)**		
Location ID	**687-PG-008**		
Sample ID	**52-140-87**	**GP840318**	**GP870512**
Sample Date	**870101**	**840705**	**870721**
Lab Sample ID			
Units	**mg/l**	**mg/l**	**mg/l**
OIL & GREASE, TOTAL REC		< .3	
TOTAL TRIHALOMETHANES	< 100		< 100
TOTAL ORGANIC CARBON		2	
TOTAL HYDROCARBONS			

< = less than detection limit
ND = not detected



UNITED STATES AIR FORCE
ELMENDORF AIR FORCE BASE, ALASKA

ENVIRONMENTAL RESTORATION PROGRAM

BASEWIDE BACKGROUND SAMPLING REPORT
VOLUME 3
APPENDIX B - K

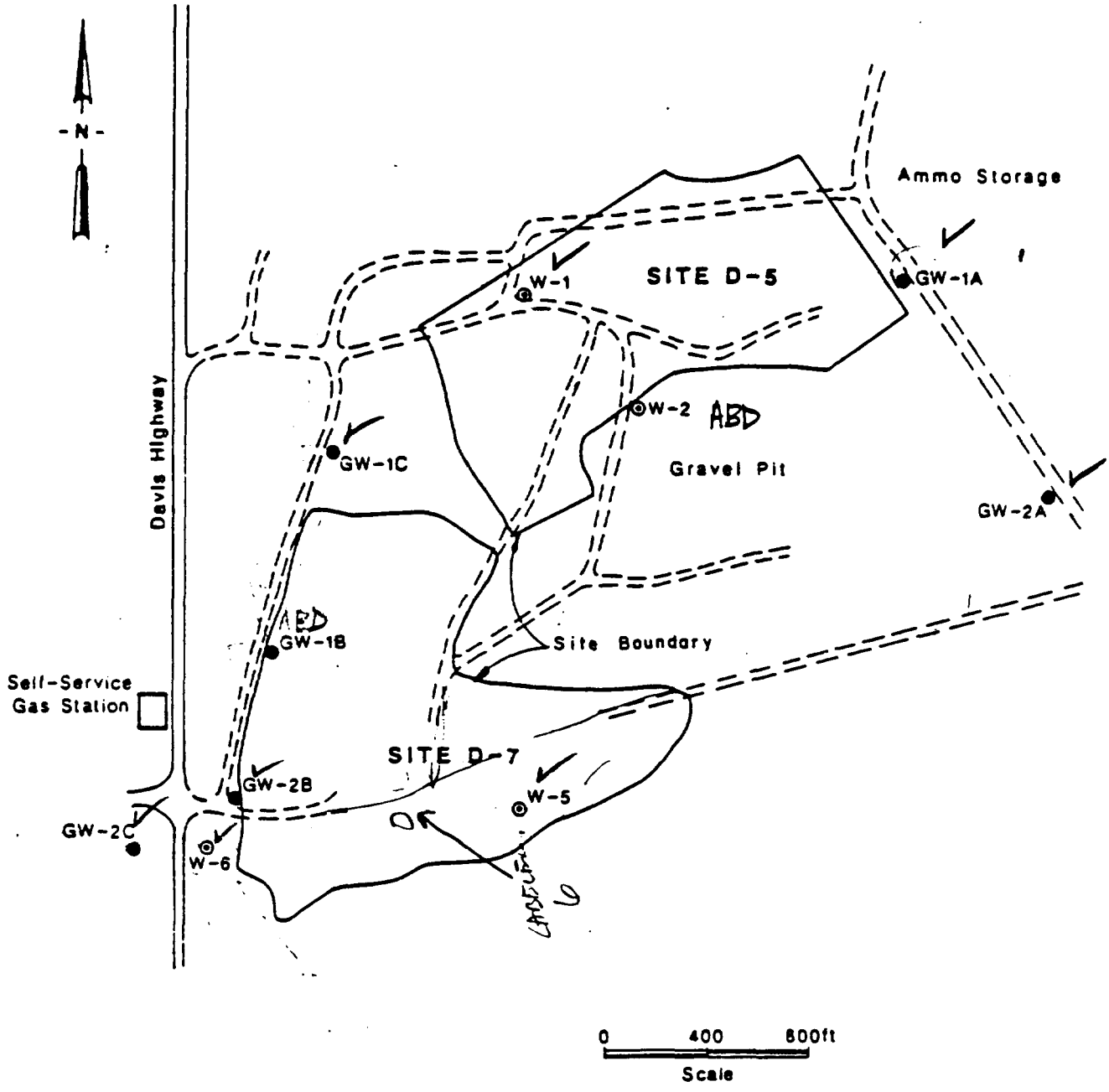
JANUARY 1993

PRINTED ON RECYCLED PAPER

APPENDIX B
GEOLOGIC AND WELL CONSTRUCTION LOGS

Appendix B

Geologic and Well Construction Logs



Legend:

W-1 — Monitoring Well Location, Phase II, Stage 1

GW-1A — Monitoring Well Location, Phase II, Stage 2

LOCATION MAP
SITE D-5

IRP Stage 3 RI/FS Elmendorf AFB, AK	Figure 4.2.2.1

MONITOR WELL INFORMATION SHEET

GROUND SURFACE ELEVATION 215.4

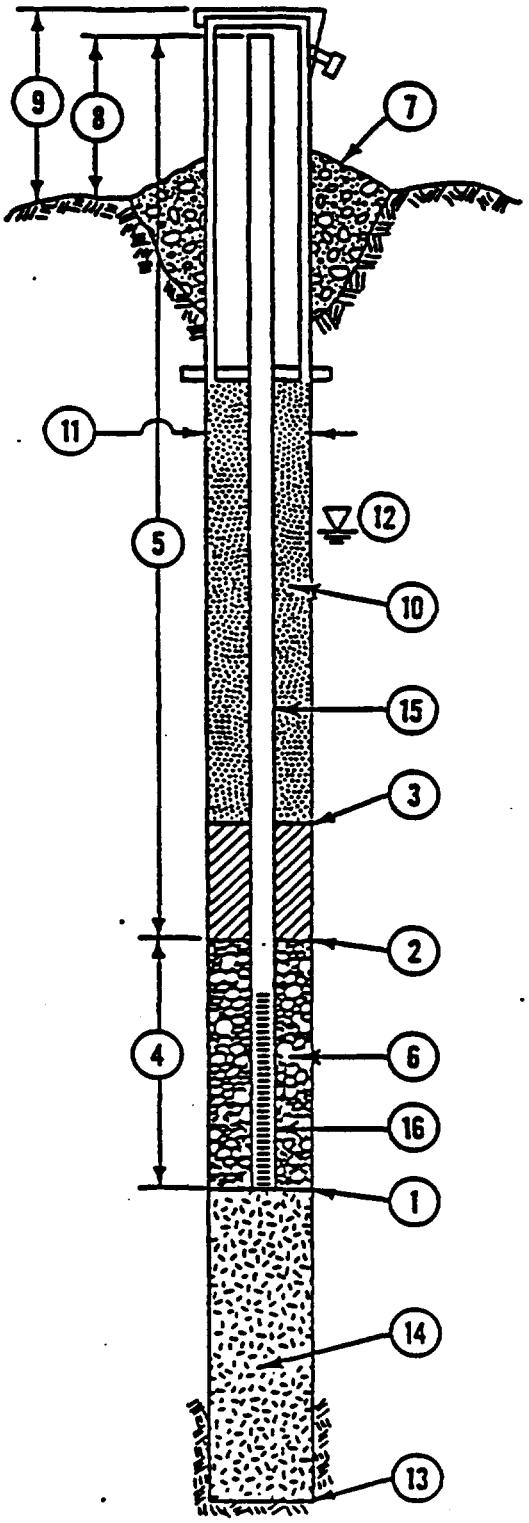
TOP OF WELL CASING ELEVATION 217.91

JOB NUMBER 1016-215

BORING NUMBER GW1-A

DATE 9/16/86

LOCATION Elmenda/APB



1. DEPTH TO BOTTOM OF WELL POINT OR SLOTTED PIPE 51.0 FEET.*
2. DEPTH TO BOTTOM OF SEAL (IF INSTALLED) 41.0 FEET.*
3. DEPTH TO TOP OF SEAL (IF INSTALLED) 39.0 FEET.*
4. LENGTH OF WELL SCREEN 10 FEET. SLOT SIZE 0.010.
5. TOTAL LENGTH OF PIPE 53.51 FEET AT 2 INCH DIAMETER.
6. TYPE OF PACK AROUND WELL POINT OR SLOTTED PIPE Sand.
7. CONCRETE CAP. (YES) NO (CIRCLE ONE)
8. HEIGHT OF WELL CASING ABOVE GROUND 2.51 FEET.
9. PROTECTIVE CASING? (YES) NO (CIRCLE ONE) HEIGHT ABOVE GROUND 2.84 FEET. LOCKING CAP? (YES) NO (CIRCLE ONE)
10. TYPE OF UPPER BACKFILL Cement-bentonite grout
11. BOREHOLE DIAMETER 8 INCHES.
12. DEPTH TO GROUND WATER 42.5 FEET.*
13. TOTAL DEPTH OF BOREHOLE 51.0 FEET.*
14. TYPE OF LOWER BACKFILL —.
15. PIPE MATERIAL PVC.
16. SCREEN MATERIAL PVC.

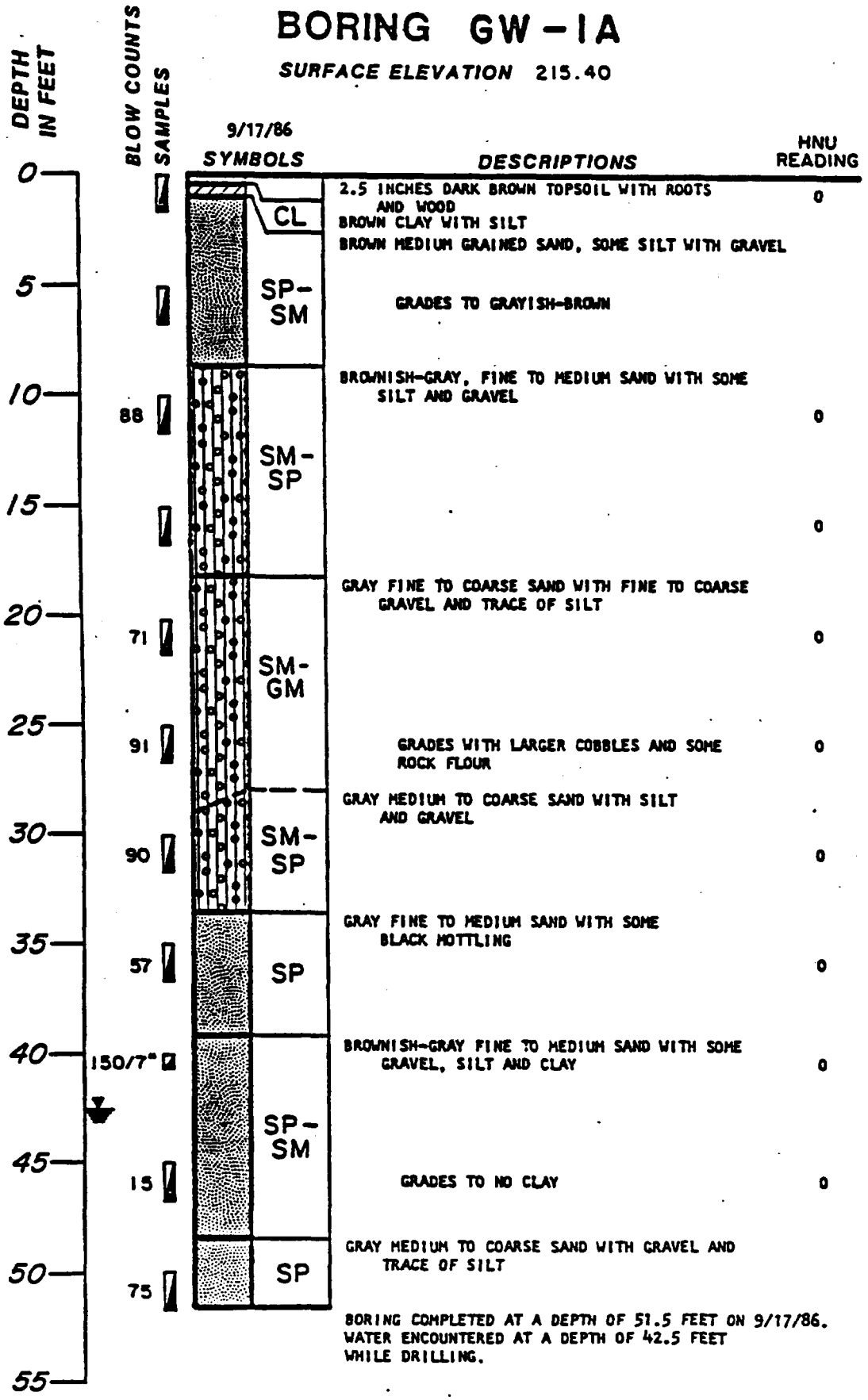
*(DEPTH FROM GROUND SURFACE)

MONITOR WELL INSTALLATION DETAILS

Dames & Moore

BORING GW-1A

SURFACE ELEVATION 215.40



LOG OF BORING

PLATE D-2

MONITOR WELL INFORMATION SHEET

GROUND SURFACE ELEVATION 202.6

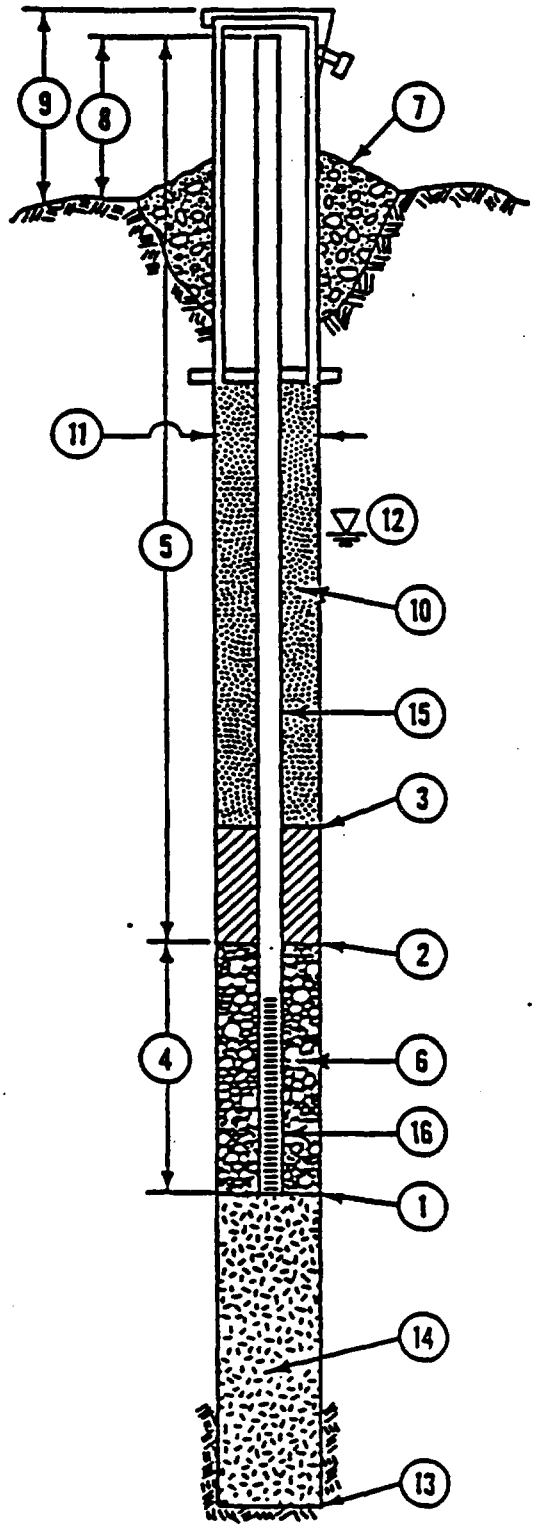
TOP OF WELL CASING ELEVATION 205.2

JOB NUMBER 1016-265

BORING NUMBER GW-1B

DATE 9/21/86

LOCATION Elmendorf AFB



1. DEPTH TO BOTTOM OF WELL POINT OR SLOTTED PIPE 44.0 FEET.*
2. DEPTH TO BOTTOM OF SEAL (IF INSTALLED) 34.0 FEET.*
3. DEPTH TO TOP OF SEAL (IF INSTALLED) 32.0 FEET.*
4. LENGTH OF WELL SCREEN 10 FEET. SLOT SIZE 0.010.
5. TOTAL LENGTH OF PIPE 46.6 FEET AT 2 INCH DIAMETER.
6. TYPE OF PACK AROUND WELL POINT OR SLOTTED PIPE Sand.
7. CONCRETE CAP. (YES) NO (CIRCLE ONE)
8. HEIGHT OF WELL CASING ABOVE GROUND 2.6 FEET.
9. PROTECTIVE CASING? (YES) NO (CIRCLE ONE)
   HEIGHT ABOVE GROUND 2.86 FEET.
   LOCKING CAP? (YES) NO (CIRCLE ONE)
10. TYPE OF UPPER BACKFILL cement-bentonite grout
11. BOREHOLE DIAMETER 8 INCHES.
12. DEPTH TO GROUND WATER 36.0 FEET.*
13. TOTAL DEPTH OF BOREHOLE 45.0 FEET.*
14. TYPE OF LOWER BACKFILL ——.
15. PIPE MATERIAL PVC.
16. SCREEN MATERIAL PVC.

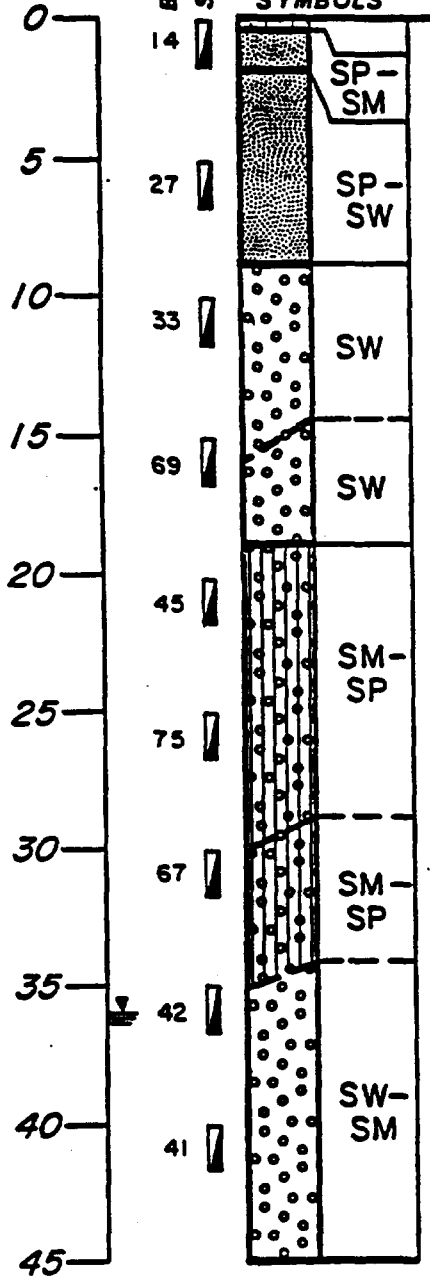
*(DEPTH FROM GROUND SURFACE)

MONITOR WELL INSTALLATION DETAILS

Dames & Moore

BORING GW-1B

SURFACE ELEVATION 202.60



DESCRIPTIONS	HNU READING
2 INCHES BROWN TOPSOIL WITH LEAVES AND ROOTS 2 INCHES BROWN CLAY BLACK FINE GRAINED SAND WITH SILT AND TRACE OF GRAVEL, SLIGHT ODOR	0
BROWN FINE TO COARSE SAND WITH GRAVEL AND SILT GRADES TO TRACE OF GRAVEL	0
GRAYISH-BROWN FINE TO COARSE SAND WITH FINE TO COARSE GRAVEL AND SILT	0
GRADES TO BROWN FINE TO COARSE SAND WITH SILT AND SOME GRAVEL	0
GREENISH-GRAY MEDIUM TO COARSE SAND WITH GRAVEL AND SILT	0
GRADES TO LESS SILT	0
GRADES TO BROWN FINE GRAINED SAND WITH MEDIUM, ROUNDED GRAVEL AND TRACE OF SILT	0
BROWN FINE TO COARSE SAND WITH GRAVEL AND SOME TO TRACE OF SILT	0

BORING COMPLETED AT A DEPTH OF 45.0 ON 9/21/86.
WATER ENCOUNTERED AT A DEPTH OF 36.0 FEET WHILE DRILLING.

LOG OF BORING

PLATE D-3

MONITOR WELL INFORMATION SHEET

GROUND SURFACE ELEVATION 209'

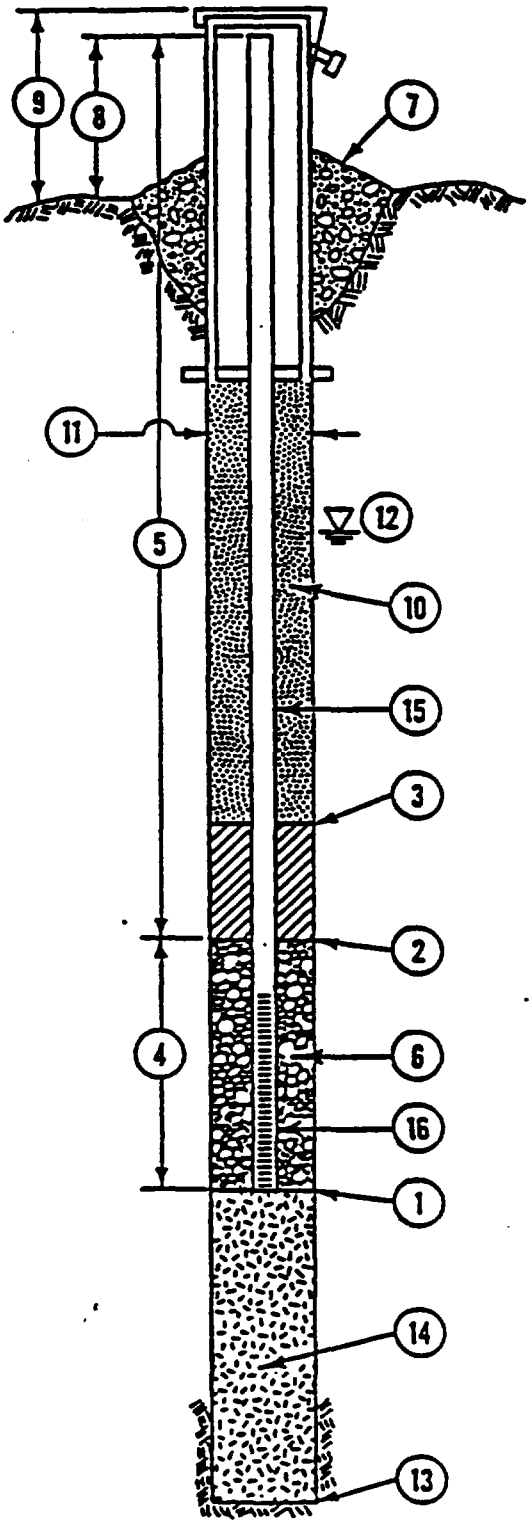
TOP OF WELL CASING ELEVATION 211.45

JOB NUMBER 1016-265

BORING NUMBER GW-1C

DATE 9/22/86

LOCATION Elmendorf AFB



1. DEPTH TO BOTTOM OF WELL POINT OR SLOTTED PIPE [illegible] FEET.* 49.5
2. DEPTH TO BOTTOM OF SEAL (IF INSTALLED) 40.0 FEET.*
3. DEPTH TO TOP OF SEAL (IF INSTALLED) 38.0 FEET.*
4. LENGTH OF WELL SCREEN 10 FEET. SLOT SIZE 0.010.
5. TOTAL LENGTH OF PIPE 51.95 FEET AT 2 INCH DIAMETER.
6. TYPE OF PACK AROUND WELL POINT OR SLOTTED PIPE Sand.
7. CONCRETE CAP. (YES) NO (CIRCLE ONE)
8. HEIGHT OF WELL CASING ABOVE GROUND 2.45 FEET.
9. PROTECTIVE CASING? (YES) NO (CIRCLE ONE) HEIGHT ABOVE GROUND 2.47 FEET. LOCKING CAP? (YES) NO (CIRCLE ONE)
10. TYPE OF UPPER BACKFILL Cement-bentonite grout
11. BOREHOLE DIAMETER 8 INCHES.
12. DEPTH TO GROUND WATER 41.5 FEET.*
13. TOTAL DEPTH OF BOREHOLE 50.0 FEET.*
14. TYPE OF LOWER BACKFILL ——.
15. PIPE MATERIAL PVC.
16. SCREEN MATERIAL PVC.

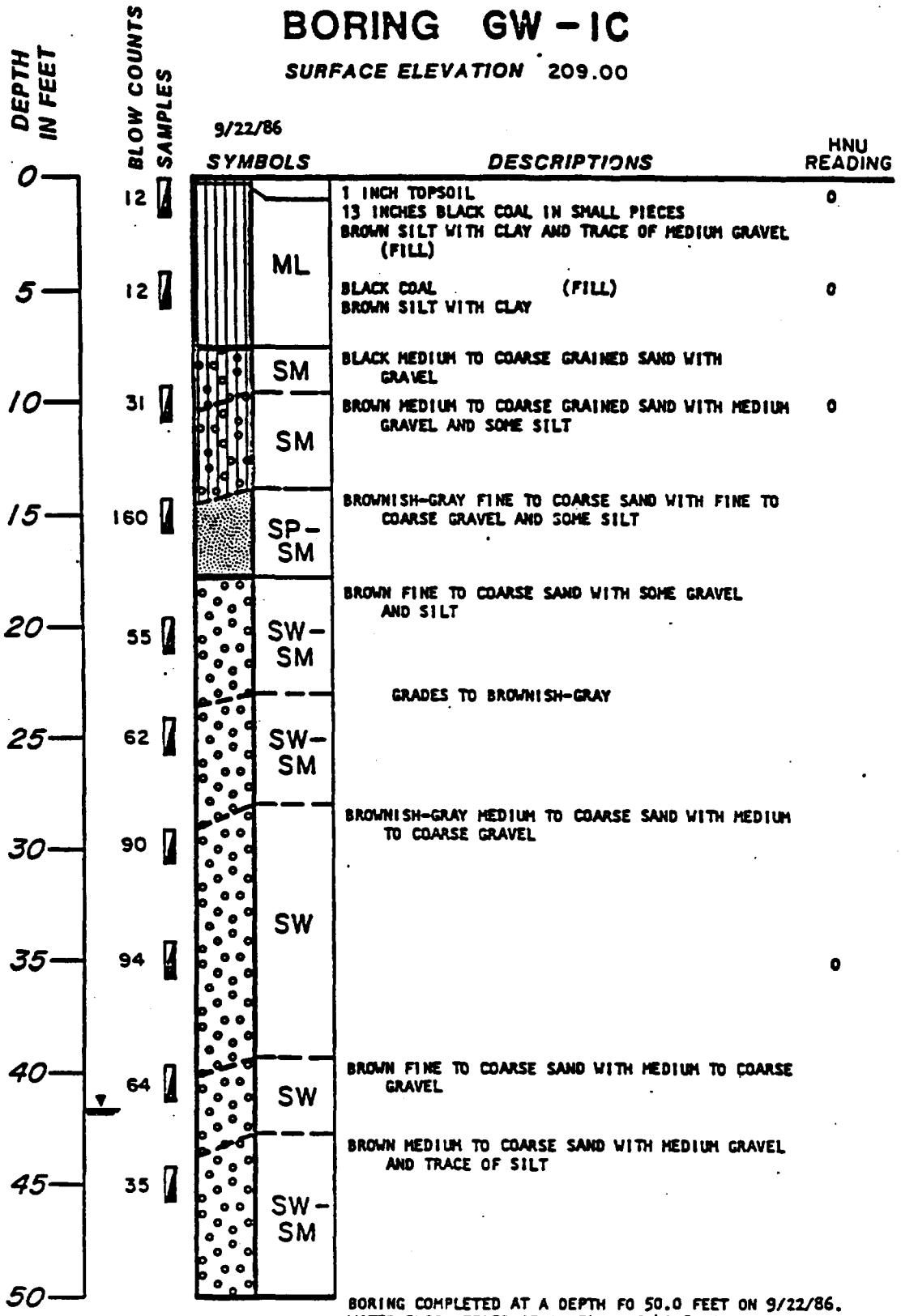
*(DEPTH FROM GROUND SURFACE)

MONITOR WELL INSTALLATION DETAILS

Dames & Moore

BORING GW-IC

SURFACE ELEVATION 209.00



LOG OF BORING

PLATE D-4

MONITOR WELL INFORMATION SHEET

GROUND SURFACE ELEVATION 219.6

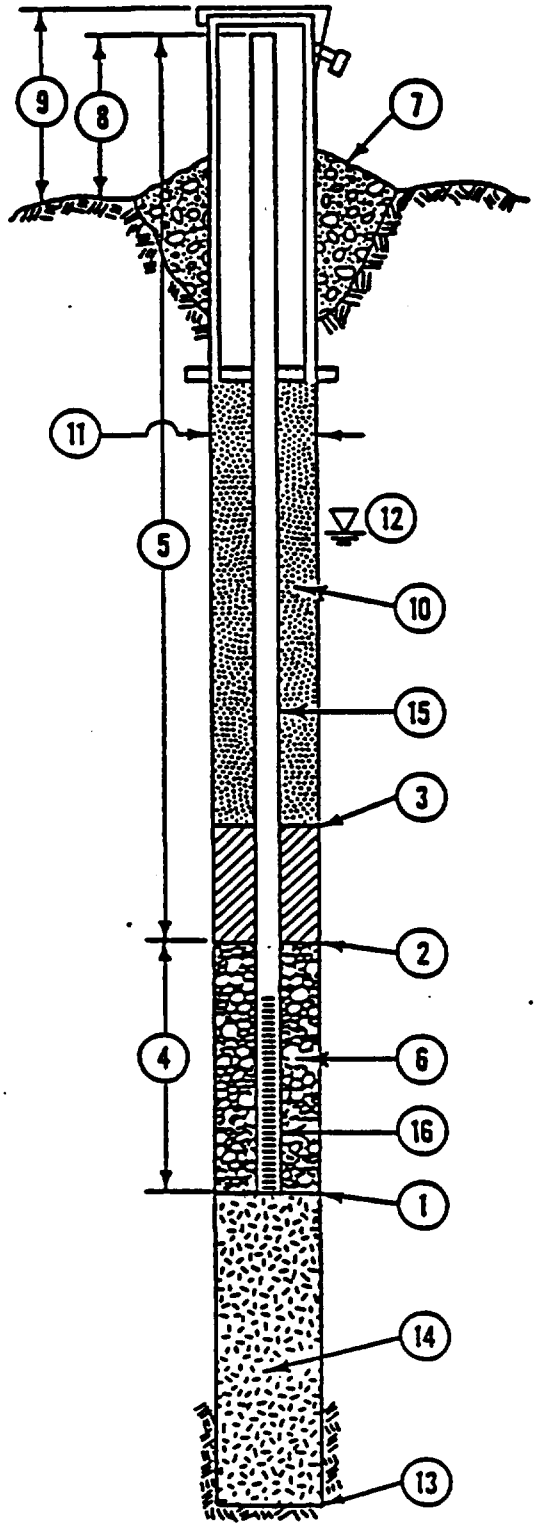
TOP OF WELL CASING ELEVATION 222.19

JOB NUMBER 1016-265

BORING NUMBER GW-2A

DATE 9/18/86

LOCATION Elmendorf AFB



1. DEPTH TO BOTTOM OF WELL POINT OR SLOTTED PIPE 50.8 FEET.*
2. DEPTH TO BOTTOM OF SEAL (IF INSTALLED) 40.0 FEET.*
3. DEPTH TO TOP OF SEAL (IF INSTALLED) 38.0 FEET.*
4. LENGTH OF WELL SCREEN 10 FEET. SLOT SIZE 0.010.
5. TOTAL LENGTH OF PIPE 53.09 FEET AT 2 INCH DIAMETER.
6. TYPE OF PACK AROUND WELL POINT OR SLOTTED PIPE Sand.
7. CONCRETE CAP. (YES) NO (CIRCLE ONE)
8. HEIGHT OF WELL CASING ABOVE GROUND 2.59 FEET.
9. PROTECTIVE CASING? (YES) NO (CIRCLE ONE) HEIGHT ABOVE GROUND 2.71 FEET. LOCKING CAP? (YES) NO (CIRCLE ONE)
10. TYPE OF UPPER BACKFILL cement-bentonite gro
11. BOREHOLE DIAMETER 8 INCHES.
12. DEPTH TO GROUND WATER 43.5 FEET.*
13. TOTAL DEPTH OF BOREHOLE 50.0 FEET.*
14. TYPE OF LOWER BACKFILL —.
15. PIPE MATERIAL PVC.
16. SCREEN MATERIAL PVC.

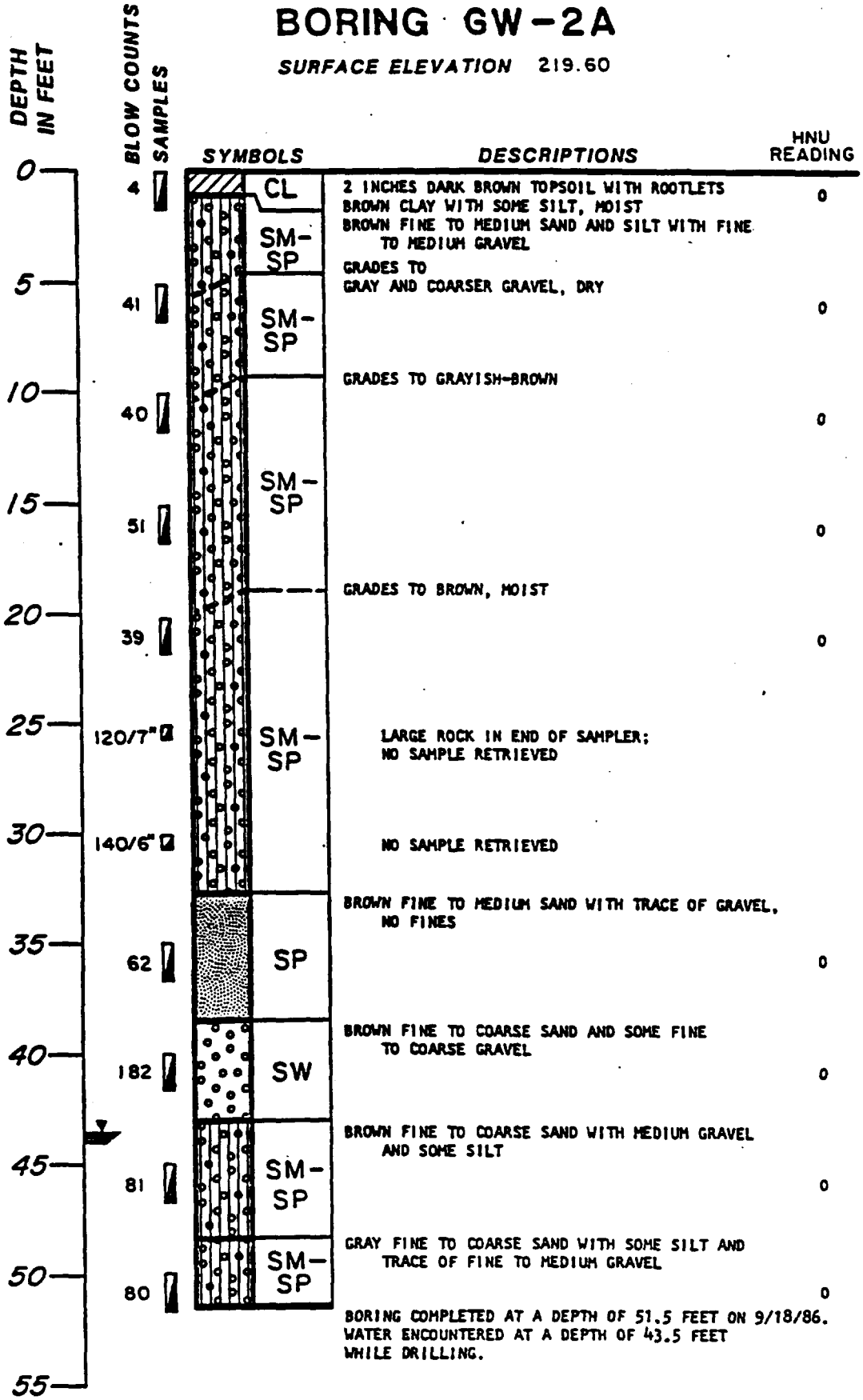
*(DEPTH FROM GROUND SURFACE)

MONITOR WELL INSTALLATION DETAILS

Dames & Moore

BORING GW-2A

SURFACE ELEVATION 219.60



LOG OF BORING

PLATE D-5

PIEZOMETER DETAIL INFORMATION SHEET

GROUND SURFACE ELEVATION 1983

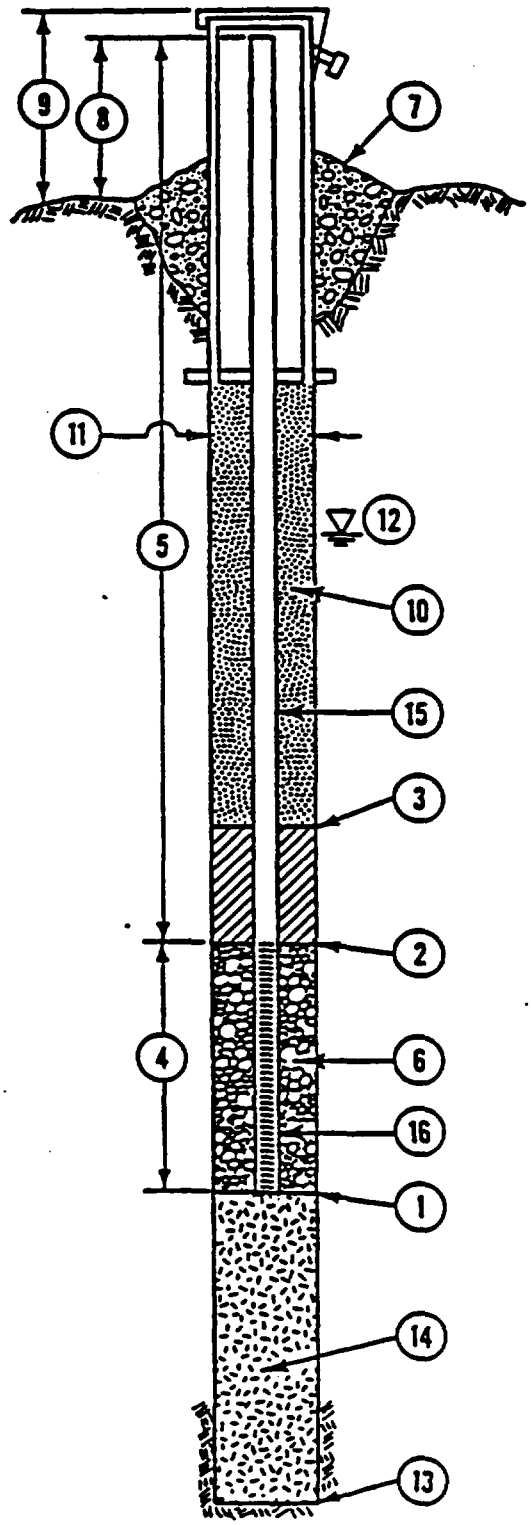
TOP OF WELL CASING ELEVATION 2012.3

JOB NUMBER 10116-215

BORING NUMBER GW-28

DATE 9-19-86

LOCATION Elmendorf AFB



1. DEPTH TO BOTTOM OF WELL POINT OR SLOTTED PIPE 41.5 FEET.*
2. DEPTH TO BOTTOM OF SEAL (IF INSTALLED) 29.0 FEET.*
3. DEPTH TO TOP OF SEAL (IF INSTALLED) 27.0 FEET.*
4. LENGTH OF WELL SCREEN 10 FEET. SLOT SIZE .010.
5. TOTAL LENGTH OF PIPE 44.23 FEET AT 2 INCH DIAMETER.
6. TYPE OF PACK AROUND WELL POINT OR SLOTTED PIPE Natural to top of water -- then #8 (Med-co) silica sand
7. CONCRETE CAP. (YES) NO (CIRCLE ONE)
8. HEIGHT OF WELL CASING ABOVE GROUND 2.73 FEET.
9. PROTECTIVE CASING? (YES) NO (CIRCLE ONE) HEIGHT ABOVE GROUND 3.14 FEET. LOCKING CAP? (YES) NO (CIRCLE ONE)
10. TYPE OF UPPER BACKFILL Grout.
11. BOREHOLE DIAMETER 6 INCHES.
12. DEPTH TO GROUND WATER 33.0 FEET.*
13. TOTAL DEPTH OF BOREHOLE 41.5 FEET.*
14. TYPE OF LOWER BACKFILL Natural; silica sand
15. PIPE MATERIAL PVC.
16. SCREEN MATERIAL PVC.

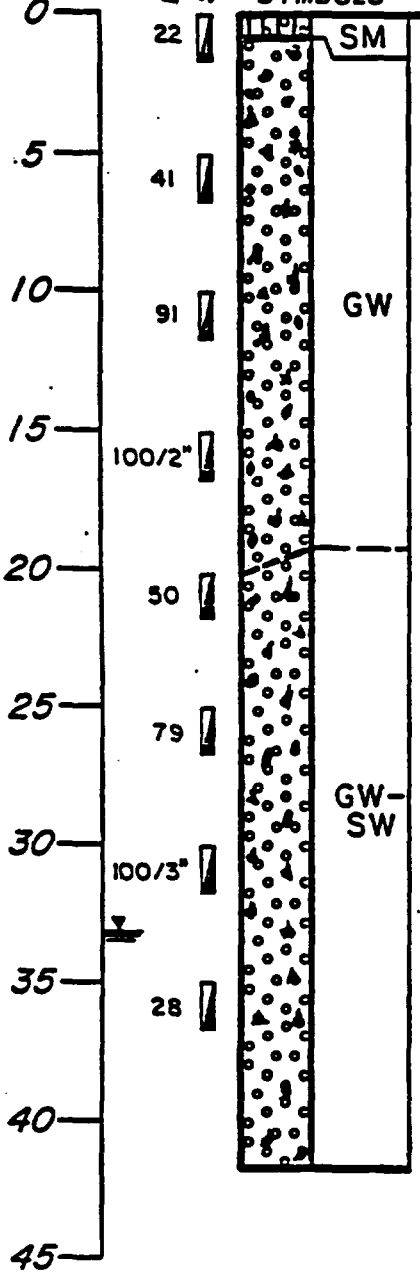
*(DEPTH FROM GROUND SURFACE)

PIEZOMETER INSTALLATION DETAILS

Dames & Moore

BORING GW-2B

SURFACE ELEVATION 198.50



DESCRIPTIONS	HNU READING
BROWN SANDY SILT WITH TRACE OF FINE GRAVEL	0
BROWN SANDY GRAVEL WITH TRACE OF SILT	0
	0
	0
BROWN FINE TO COARSE SILTY SAND AND GRAVEL	0
	0
	0
	0

BORING COMPLETED AT A DEPTH OF 41.5 FEET ON 9/19/86.
WATER ENCOUNTERED AT A DEPTH OF 33.0 FEET
WHILE DRILLING.

LOG OF BORING

PLATE D-6

MONITOR WELL INFORMATION SHEET

GROUND SURFACE ELEVATION 1932

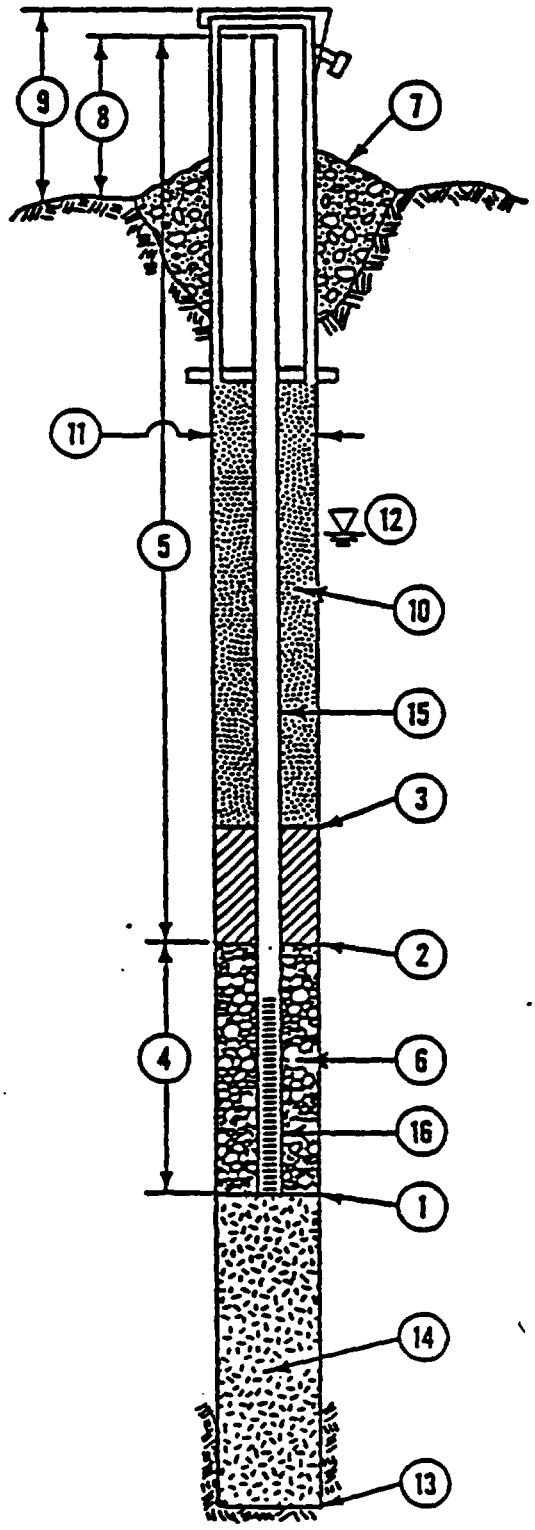
TOP OF WELL CASING ELEVATION 1971.12

JOB NUMBER 1016-265

BORING NUMBER GW-2C

DATE 9/23/86

LOCATION Elmendorf AFB



1. DEPTH TO BOTTOM OF WELL POINT OR SLOTTED PIPE 37.0 FEET.*
2. DEPTH TO BOTTOM OF SEAL (IF INSTALLED) 27.0 FEET.*
3. DEPTH TO TOP OF SEAL (IF INSTALLED) 25.0 FEET.*
4. LENGTH OF WELL SCREEN 10 FEET. SLOT SIZE 0.010.
5. TOTAL LENGTH OF PIPE 40.32 FEET AT 2 INCH DIAMETER.
6. TYPE OF PACK AROUND WELL POINT OR SLOTTED PIPE natural.
7. CONCRETE CAP. (YES) NO (CIRCLE ONE)
8. HEIGHT OF WELL CASING ABOVE GROUND 3.32 FEET.
9. PROTECTIVE CASING? (YES) NO (CIRCLE ONE) HEIGHT ABOVE GROUND 3.53 FEET. LOCKING CAP? (YES) NO (CIRCLE ONE)
10. TYPE OF UPPER BACKFILL Cement-bentonite gro
11. BOREHOLE DIAMETER 8 INCHES.
12. DEPTH TO GROUND WATER 30.0 FEET.*
13. TOTAL DEPTH OF BOREHOLE 38.0 FEET.*
14. TYPE OF LOWER BACKFILL ——.
15. PIPE MATERIAL PVC.
16. SCREEN MATERIAL PVC.

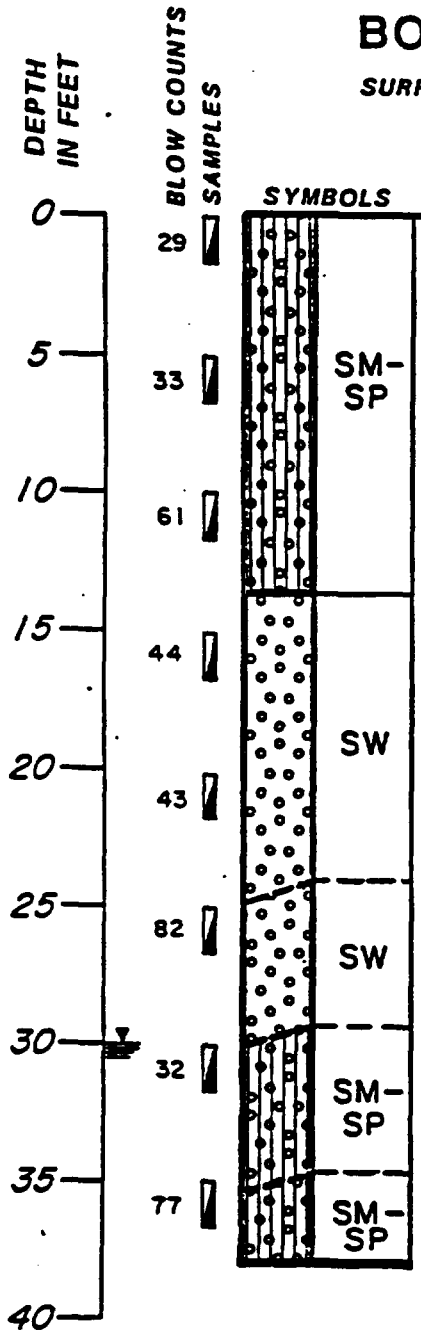
*(DEPTH FROM GROUND SURFACE)

MONITOR WELL INSTALLATION DETAILS

Dames & Moore

BORING GW-2C

SURFACE ELEVATION 193.80



DESCRIPTIONS	HNU READING
BROWN FINE TO MEDIUM SAND WITH SILT AND TRACE OF GRAVEL	
GRADES TO MORE GRAVEL	
BROWN FINE TO COARSE SAND AND SOME MEDIUM GRAVEL	
BROWN FINE TO MEDIUM SAND WITH MEDIUM TO LARGE GRAVEL AND NO FINES	
BROWN MEDIUM TO COARSE SAND WITH MEDIUM TO COARSE GRAVEL AND TRACE TO SOME SILT	
GRAY FINE TO COARSE SAND WITH MEDIUM TO COARSE GRAVEL AND SILT SEWAGE.ODOR?	

BORING COMPLETED AT A DEPTH OF 38.0 FEET ON 9/23/86.
WATER ENCOUNTERED AT A DEPTH OF 30.0 FEET WHILE DRILLING.
HNU INSTRUMENT NOT FUNCTIONING.

LOG OF BORING

PLATE D-7

PIEZOMETER DETAIL INFORMATION SHEET

GROUND SURFACE ELEVATION _____

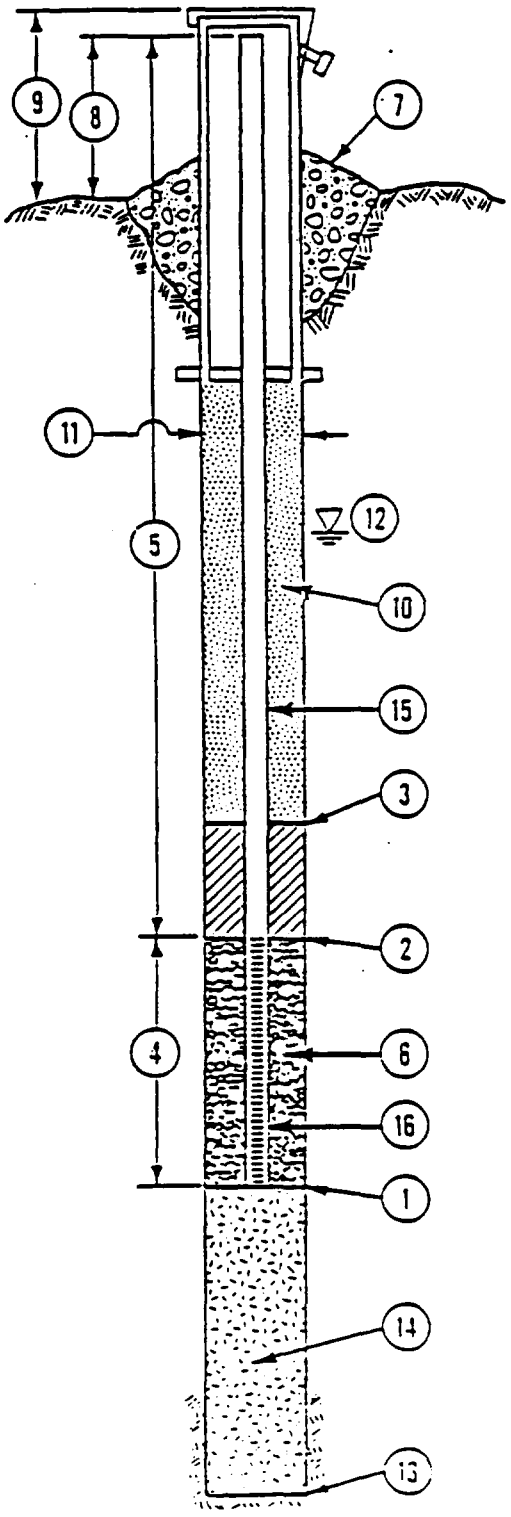
TOP OF WELL CASING ELEVATION 211.59

JOB NUMBER 1016-200-204

BORING NUMBER W-1

DATE 6/10/84

LOCATION Elmendorf



(1) DEPTH TO BOTTOM OF WELL POINT OR SLOTTED PIPE 59 FEET.*

(2) DEPTH TO BOTTOM OF SEAL (IF INSTALLED) 30 FEET.*

(3) DEPTH TO TOP OF SEAL (IF INSTALLED) 25 FEET.*

(4) LENGTH OF WELL SCREEN 25 FEET.
SLOT SIZE 0.01.

(5) TOTAL LENGTH OF PIPE 35 FEET AT _____ INCH DIAMETER.

(6) TYPE OF PACK AROUND WELL POINT OR SLOTTED PIPE Silica Sand.

(7) CONCRETE CAP. YES NO (CIRCLE ONE)

(8) HEIGHT OF WELL CASING ABOVE GROUND 1.25 FEET.

(9) PROTECTIVE CASING? (YES) NO (CIRCLE ONE)
HEIGHT ABOVE GROUND _____ FEET.
LOCKING CAP? (YES) NO (CIRCLE ONE)

(10) TYPE OF UPPER BACKFILL Cement

(11) BOREHOLE DIAMETER 8 INCHES.

(12) DEPTH TO GROUND WATER _____ FEET.*

(13) TOTAL DEPTH OF BOREHOLE 59 FEET.*

(14) TYPE OF LOWER BACKFILL None.

(15) PIPE MATERIAL PVC Sch 40

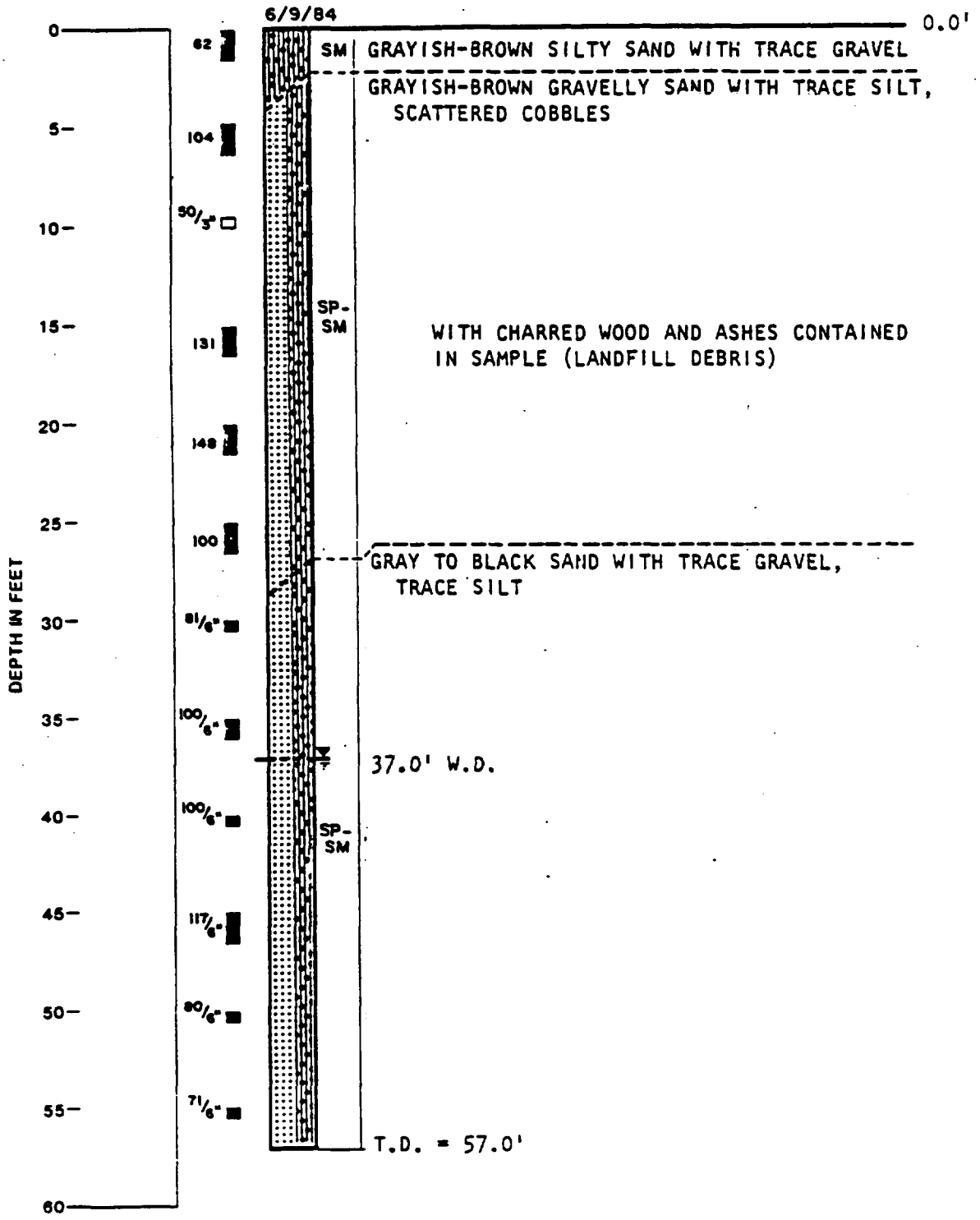
(16) SCREEN MATERIAL PVC Sch. 40

*(DEPTH FROM GROUND SURFACE)

PIEZOMETER INSTALLATION DETAILS

Dames & Moore

ELMENDORF AFB
BORING W-1



LOG OF BORING

Dames & Moore

PLATE C-2

PIEZOMETER DETAIL INFORMATION SHEET

GROUND SURFACE ELEVATION: _____

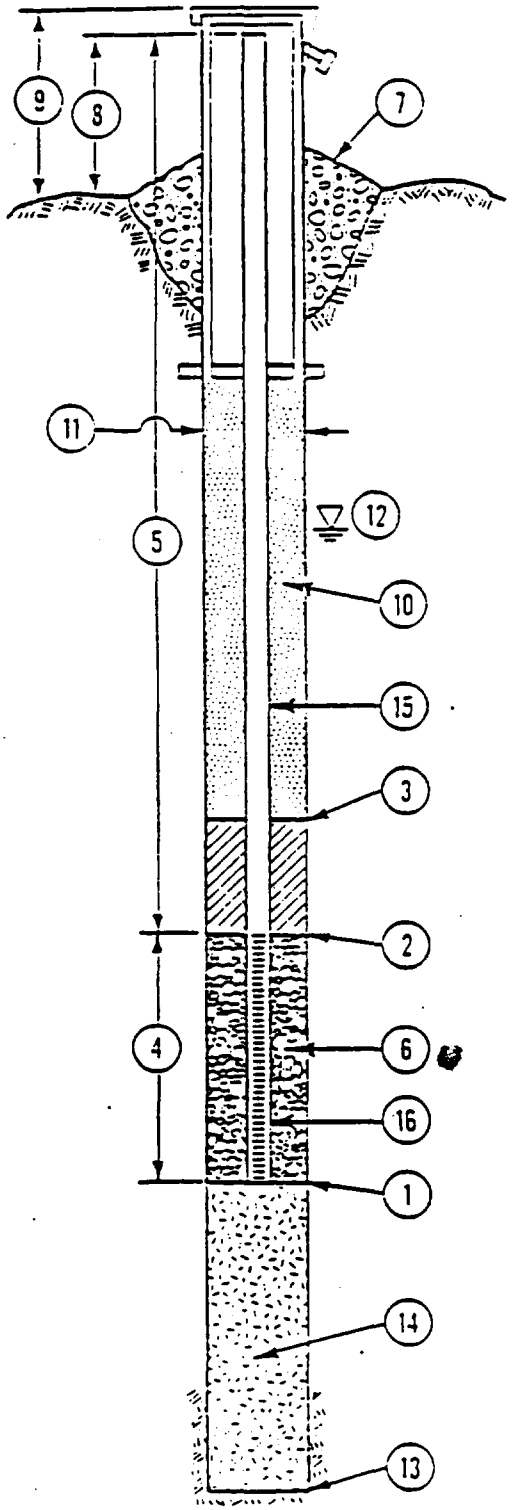
TOP OF WELL CASING ELEVATION: _____

JOB NUMBER: 1016-226

BORING NUMBER: RW-2

DATE: 6/12/84

LOCATION: Elmendorf AK



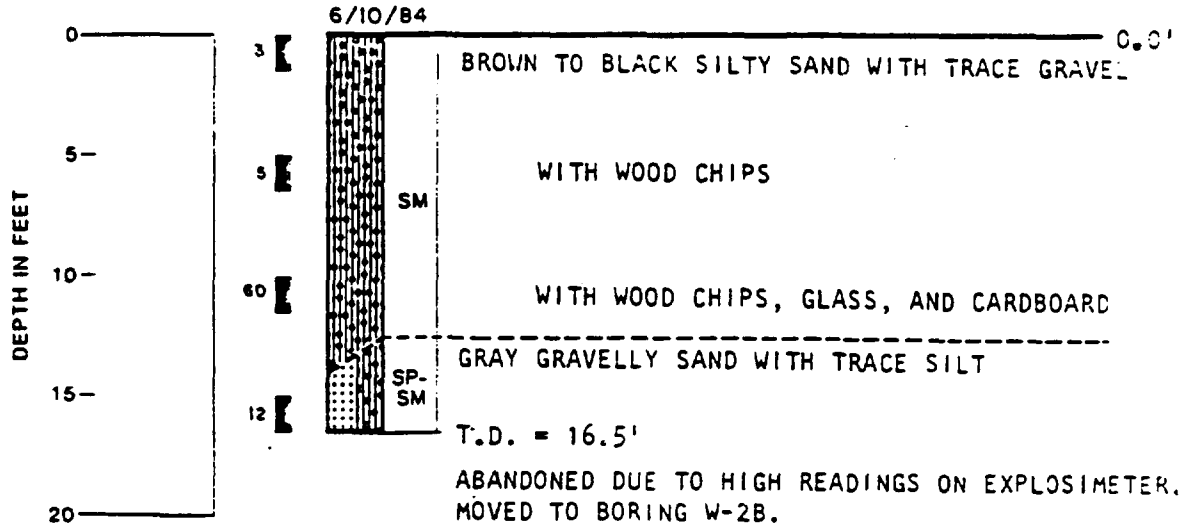
1. DEPTH TO BOTTOM OF WELL POINT OR SLOTTED PIPE 57 FEET.*
2. DEPTH TO BOTTOM OF SEAL (IF INSTALLED) 30 FEET.*
3. DEPTH TO TOP OF SEAL (IF INSTALLED) 25 FEET.*
4. LENGTH OF WELL SCREEN 25 FEET. SLOT SIZE .01
5. TOTAL LENGTH OF PIPE 33 FEET OF 2 INCH DIAMETER.
6. TYPE OF PACK AROUND WELL POINT OR SLOTTED PIPE Medium Sands
7. CONCRETE CAP. (YES) NO (CIRCLE ONE)
8. HEIGHT OF WELL CASING ABOVE GROUND 1 FEET.
9. PROTECTIVE CASING? (YES) NO (CIRCLE ONE) HEIGHT ABOVE GROUND 1.25 FEET. LOCKING CAP? (YES) NO (CIRCLE ONE)
10. TYPE OF UPPER BACKFILL Cement
11. BOREHOLE DIAMETER 8 INCHES.
12. DEPTH TO GROUND WATER 37½ FEET.*
13. TOTAL DEPTH OF BOREHOLE 57 FEET.*
14. TYPE OF LOWER BACKFILL none.
15. PIPE MATERIAL PVC - Sched - 40
16. SCREEN MATERIAL PVC - Sched - 40

*: DEPTH FROM GROUND SURFACE.

PIEZOMETER INSTALLATION DETAILS

Dames & Moore

ELMENDORF AFB
BORING W-2A



LOG OF BORING

Dames & Moore

PLATE C-3

PIEZOMETER DETAIL INFORMATION SHEET

GROUND SURFACE ELEVATION _____

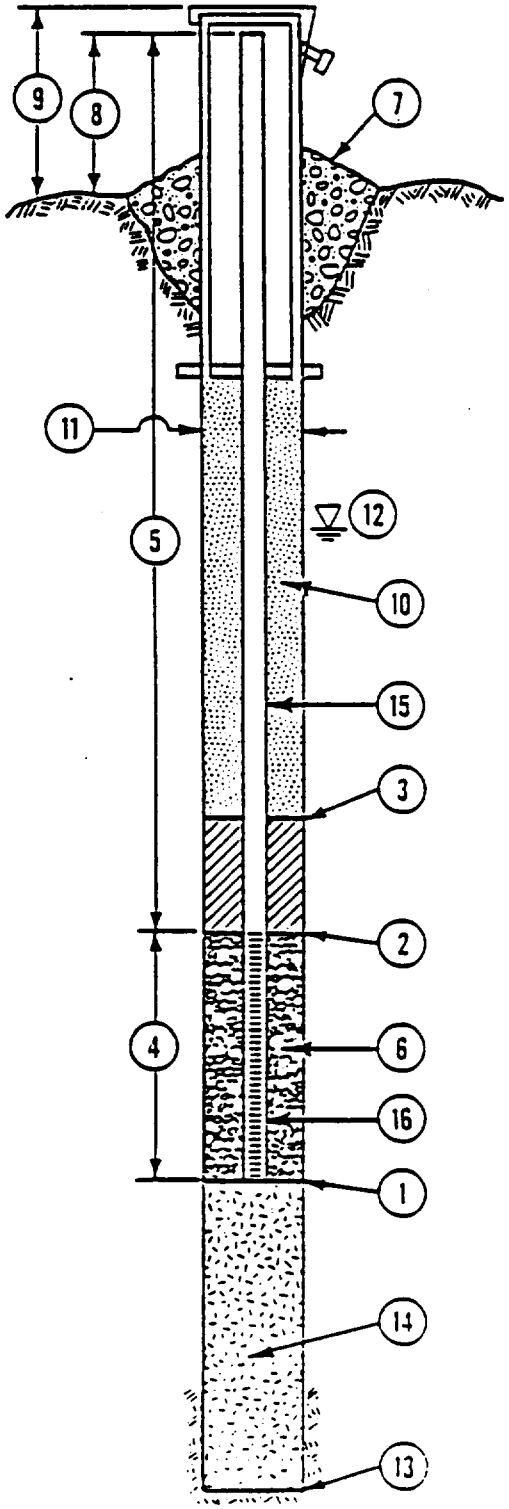
TOP OF WELL CASING ELEVATION _____

JOB NUMBER 1016-204-200

BORING NUMBER W-5

DATE 6/7/84

LOCATION Elmendorf, AK



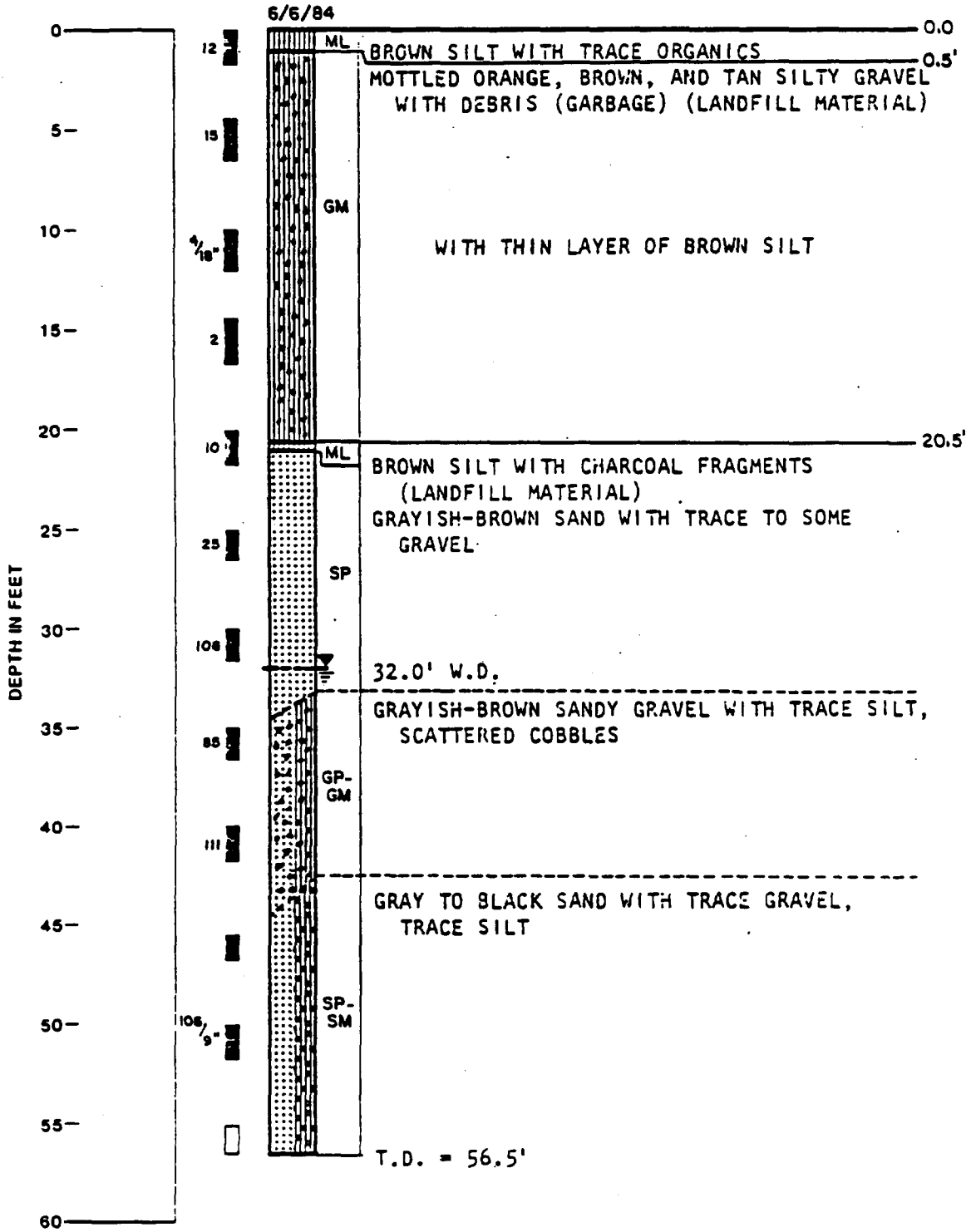
1. DEPTH TO BOTTOM OF WELL POINT OR SLOTTED PIPE 52 FEET.*
2. DEPTH TO BOTTOM OF SEAL (IF INSTALLED) 25 FEET.*
3. DEPTH TO TOP OF SEAL (IF INSTALLED) 20 FEET.*
4. LENGTH OF WELL SCREEN 25 FEET. SLOT SIZE .01.
5. TOTAL LENGTH OF PIPE 28 FEET AT 2 INCH DIAMETER.
6. TYPE OF PACK AROUND WELL POINT OR SLOTTED PIPE Natural Sand
7. CONCRETE CAP. (YES) NO (CIRCLE ONE)
8. HEIGHT OF WELL CASING ABOVE GROUND _____ FEET.
9. PROTECTIVE CASING? (YES) NO (CIRCLE ONE)
   HEIGHT ABOVE GROUND _____ FEET.
   LOCKING CAP? (YES) NO (CIRCLE ONE)
10. TYPE OF UPPER BACKFILL Cement
11. BOREHOLE DIAMETER 8 INCHES.
12. DEPTH TO GROUND WATER 32 FEET.*
13. TOTAL DEPTH OF BOREHOLE 55 FEET.*
14. TYPE OF LOWER BACKFILL Natural Sand
15. PIPE MATERIAL PVC Sched 40
16. SCREEN MATERIAL PVC Sched-40

*(DEPTH FROM GROUND SURFACE)

PIEZOMETER INSTALLATION DETAILS

Dames & Moore

ELMENDORF AFB
BORING W-5



LOG OF BORING

Dames & Moore

PLATE C-8

PIEZOMETER DETAIL INFORMATION SHEET

GROUND SURFACE ELEVATION _____

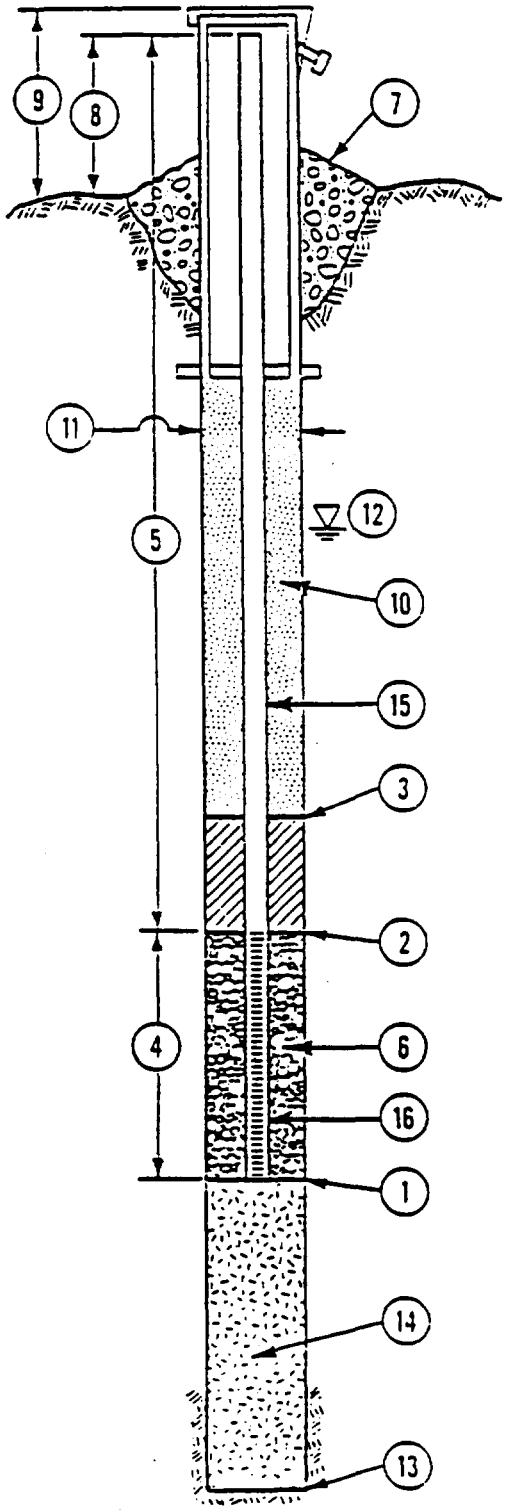
TOP OF WELL CASING ELEVATION 2010.9

JOB NUMBER 6126-20

BORING NUMBER W-6

DATE 6/6/84

LOCATION Fremont



(1) DEPTH TO BOTTOM OF WELL POINT OR SLOTTED PIPE 57.0 FEET.*

(2) DEPTH TO BOTTOM OF SEAL (IF INSTALLED) 30 FEET.*

(3) DEPTH TO TOP OF SEAL (IF INSTALLED) 25 FEET.*

(4) LENGTH OF WELL SCREEN 25 FEET.
SLOT SIZE 0.01.

(5) TOTAL LENGTH OF PIPE 27 FEET AT _____ INCH DIAMETER.

(6) TYPE OF PACK AROUND WELL POINT OR SLOTTED PIPE Native Sand

(7) CONCRETE CAP. YES NO (CIRCLE ONE)

(8) HEIGHT OF WELL CASING ABOVE GROUND 1 FEET.

(9) PROTECTIVE CASING? (YES) NO (CIRCLE ONE)
HEIGHT ABOVE GROUND 1.25 FEET.
LOCKING CAP? (YES) NO (CIRCLE ONE)

(10) TYPE OF UPPER BACKFILL Cement

(11) BOREHOLE DIAMETER 8 INCHES.

(12) DEPTH TO GROUND WATER 34 FEET.*

(13) TOTAL DEPTH OF BOREHOLE 57 FEET.*

(14) TYPE OF LOWER BACKFILL None.

(15) PIPE MATERIAL Sch 40-PVC

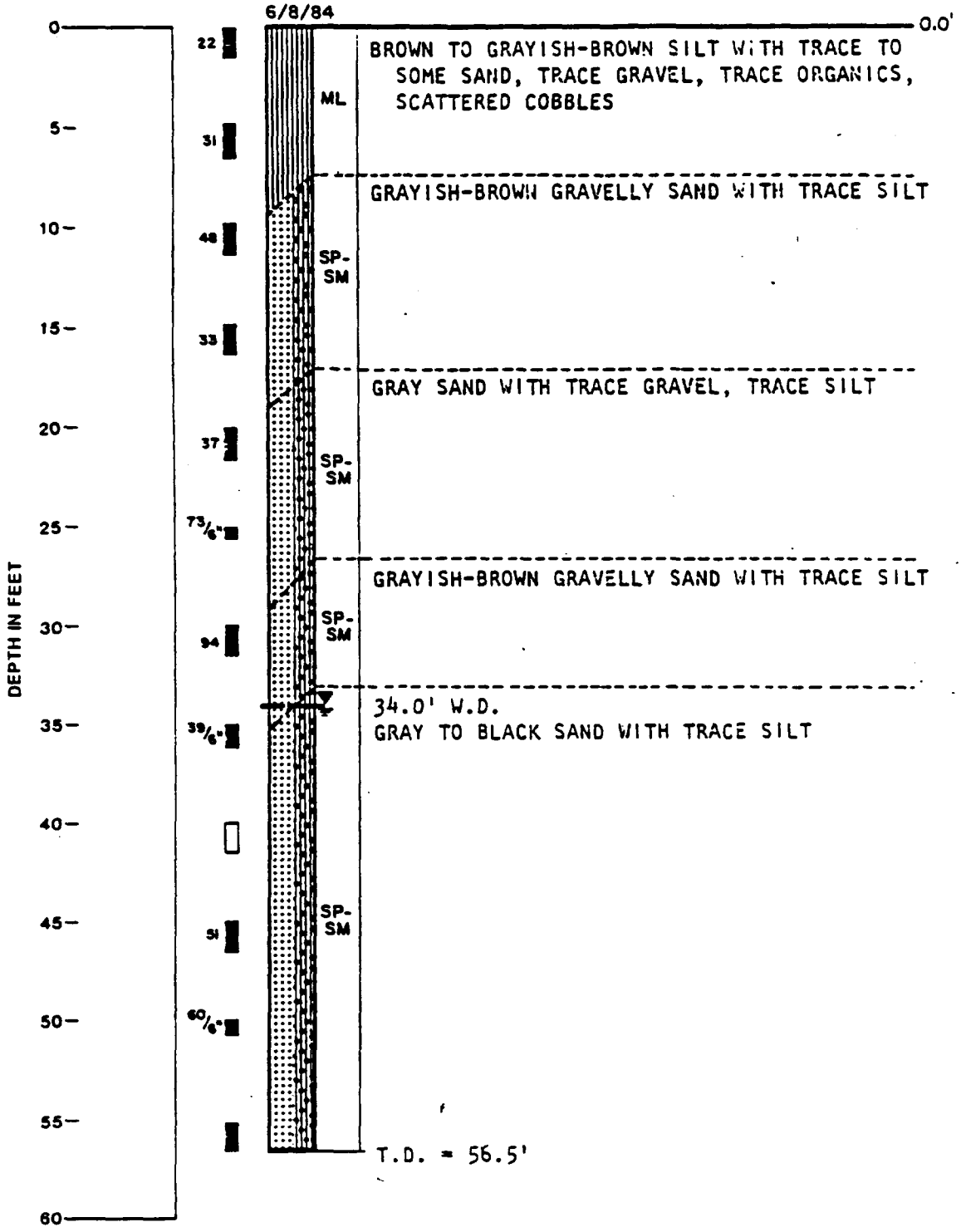
(16) SCREEN MATERIAL Sch 40-PVC

*(DEPTH FROM GROUND SURFACE)

PIEZOMETER INSTALLATION DETAILS

Dames & Moore

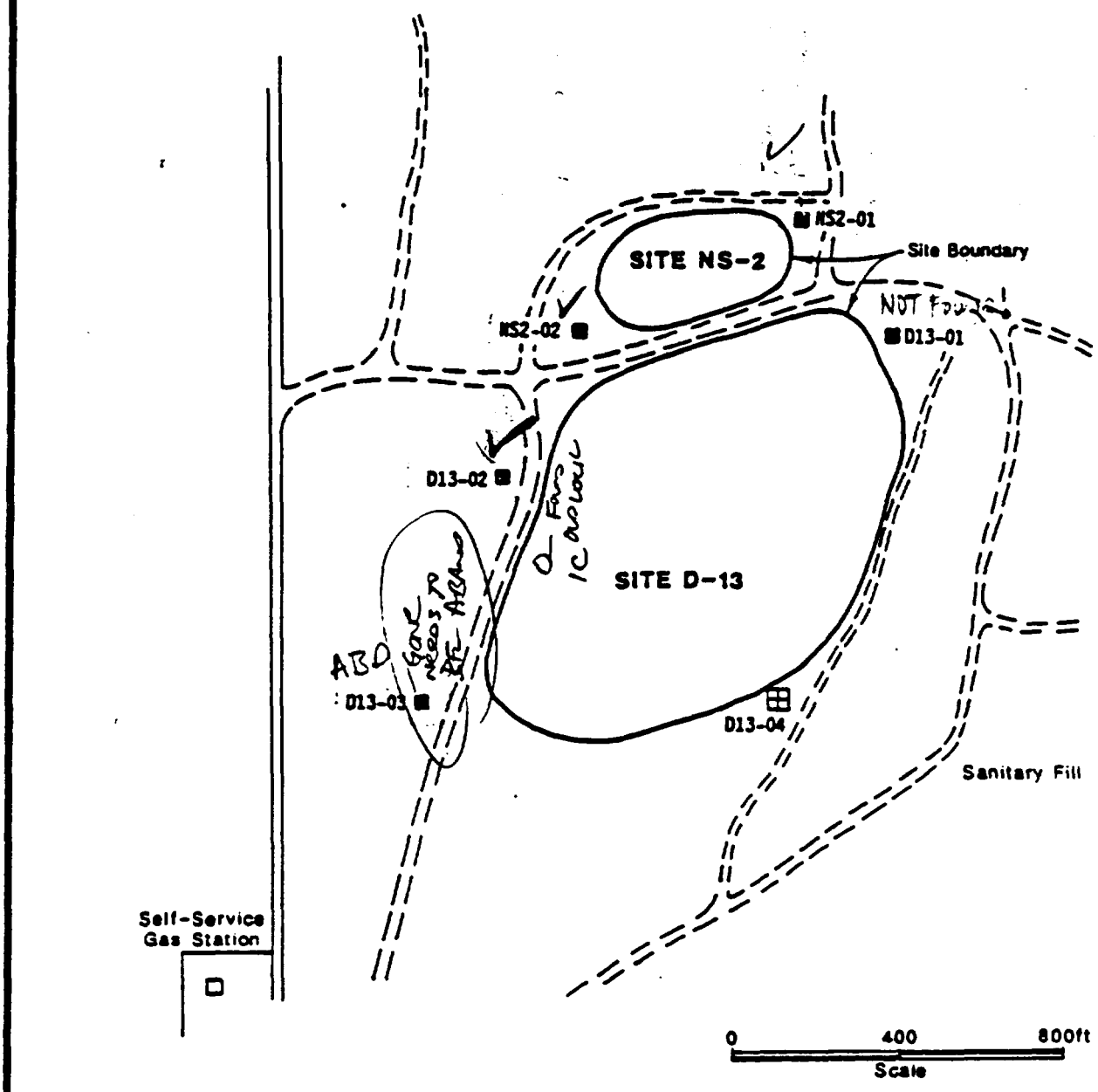
ELMENDORF AFB
BORING W-6B



LOG OF BORING

Dames & Moore

PLATE C-10



Legend:

D13-02 ■ Monitoring Well Location Stage 3

D13-04 ⊞ Stage 3 Borehole

LOCATION MAP
SITES D-13 & NS-2

IRP Stage 3 RI/FS
Elmendorf AFB, AK

Figure
4.2.4.1

LF13 and OT 56

OU1

WELL COMPLETION INFORMATION

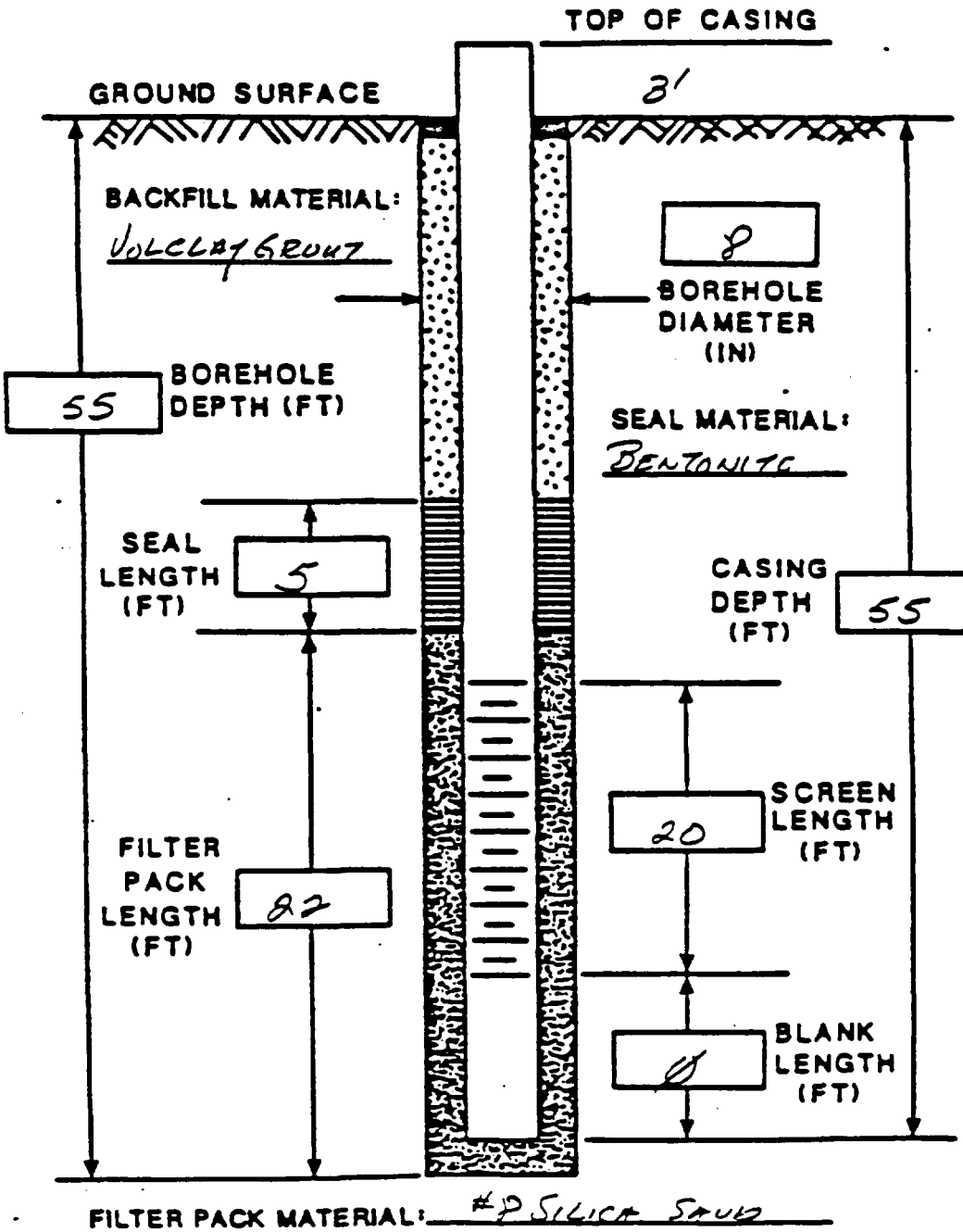
INSTALLATION ID ELMENDORF AFB
LOCATION ID D13-01 (015)
WELL OWNER
WELL TYPE CLASS. MNW
FORMATION OF COMPLETION SAND

LOCATION TYPE WL
INSTALLATION DATE 7/16/88
INSTALLER BRW
WELL COMPLETION METHOD 5
ZONE OF COMPLETION SS-33

SEAL END DEPTH (FT)
MEAS. POINT ELEV. (FTMSL) 214.85
CASING DEPTH (FT) 55
CASING DIAMETER (IN) 2
CASING MATERIAL PVC

FILTER PACK LENGTH (FT) 22
SCREEN BEGIN. DEPTH (FT) 55
SCREEN LENGTH (FT) 20
SCREEN SLOT SIZE (IN) .010

REMARKS



WELL TYPE CLASSIFICATIONS (WTCCODE)
- MNW - MONITORING WELL
- PRW - PRODUCTION WELL
- TST - TEST WELL
- WSW - WATER SUPPLY WELL

CASING MATERIAL (CMACODE)
- ABS - ABS
- BRK - BRICK
- CBS - CARBON STEEL
- CNC - CONCRETE
- COP - COPPER
- FBG - FIBERGLASS
- GLS - GALVANIZED STEEL
- WRI - WROUGHT IRON
- SLS - STAINLESS STEEL
- LCS - LOW CARBON STEEL
- M - OTHER METAL
- TFL - TEFLON
- PLY - POLYPROPYLENE
- PVC - PVC
- RST - ROCK OR STONE
- STL - STEEL
- TIL - TILE
- COS - COATED STEEL
- WD - WOOD

ZONE OF COMPLETION (GZCCODE)
- A - AQUIFER
- C - CONFINING LAYER

WELL COMPLETION METHODS: (WCMCODE)
- C - POROUS CONCRETE
- GP - GRAVEL PACK W/PERF.
- GS - GRAVEL PACK W/SCR[illegible]
- H - HORIZONTAL GALLER
- OE - OPEN END
- P - PERFORATED OR SLOTTE
- S - SCREEN
- SP - SAND POINT
- W - WALLED OR SHORED
- OP - OPEN

BOREHOLE LOG (SOIL)

INSTALLATION ID Elmendorf AFB LOCATION ID D13-01 (015)
LOCATION TYPE BH LOCATION PROXIMITY I
COORDINATES (FT): NORTH ___ EAST ___
SURFACE ELEVATION (FTMSL) ___
DRILLER CODE DISC CONSTRUCTION METHOD HS
DATE STARTED 7/15/88 DATE COMPLETED 7/16/88
BOREHOLE DEPTH (FT.) 55+4 BOREHOLE DIAM. (IN) 8IN

GROUNDWATER LEVELS		
DATE	TIME	DEPTH (FT)

LOCATION DESCRIPTION
NE Corner of D13 Site
~ 50yds from Gravel Pit.

MAP REFERENCE ID ___ LOCATION CROSS REFERENCE ___

LITHOLOGIC LOG LOGGER CODE ___

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
2	↕			A			N	N	TOPSOIL	
4										
6	↕	6"		U			N	N	GC	GRAVEL - DENSE, COARSE PEBBLE TO COARSE SAND, POORLY SORTED, ROUNDED, V. CLAYEY & SANDY
8										
10										
12	↕	8"		U			N	N	GC	
14										
16	↕	10"		U			N	N	GC	GRAVEL - DENSE, GRANULE TO COARSE PEBBLE SIZE, POORLY SORTED, ROUNDED, V. CLAYEY W/ V. COARSE SAND, WET.
18										
20										
22	↕	12"		U			N	N	CL	CLAY - V. STIFF DK. BROWN, 40% V. FINE GRAINED SAND, V. SILTY W/ORGANIC MATTER
24										
26	↕	16"		U			N	N	GC	GRAVEL - DENSE GRANULE TO COARSE PEBBLE SIZE, POORLY SORTED, ROUNDED, V. CLAYEY W/ V. COARSE SAND MOIST.
28										
30										

LOCATION PROXIMITY (LPRCODE)
I - WITHIN INSTALLATION O - OUTSIDE INSTALLATION

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

CONSTRUCTION METHODS (CMCCODE)
- AR - AIR ROTARY
- B - BORED OR AUGERED
- C - CABLE-TOOL
- D - DUG
- HS - HOLLOW STEM AUGER
- J - JETTED
- P - AIR-PERCUSSION
- RM - REVERSE ROTARY, MUD
- T - TRENCHING
- V - DRIVEN
- W - DRIVE AND WASH

SAMPLE METHODS (SSMCODE)
- A - AUGER CUTTINGS
- S - 2" O.D. 1.38" I.D. DRIVE SAMPLE
- U - 3" O.D. 2.42" I.D. TUBE SAMPLE
- T - 3" O.D. THIN-WALLED SHELBY TUBE

BOREHOLE LOG (SOIL)

INSTALLATION ID ELMENDORF AFB
LOCATION ID DT2-01 DATE STARTED 7-15-98

LITHOLOGIC LOG

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
32	↕	15'		4			N	N	GC	
34										
36										
38										▽
40										▽ SEAL MUD.
42	↕	18"		4	013 0001		N	N	SP	SAND - DENSE, DK. GRAY, MOD. TO COARSE GRAINED. POORLY SORTED. TOUGHC V. CLAYEY, SILTY, WET
44										
46										
48										
50										
52	↕	18"		4	013 0002 0040		N	N	SP	SAND - DENSE, DK. GRAY MOD TO COARSE GRAINED. POORLY SORTED. TOUGHC V. CLAYEY, SILTY, WET.
54										
56										
										TD 55ft. WELL SET @ 55ft

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

WELL COMPLETION INFORMATION

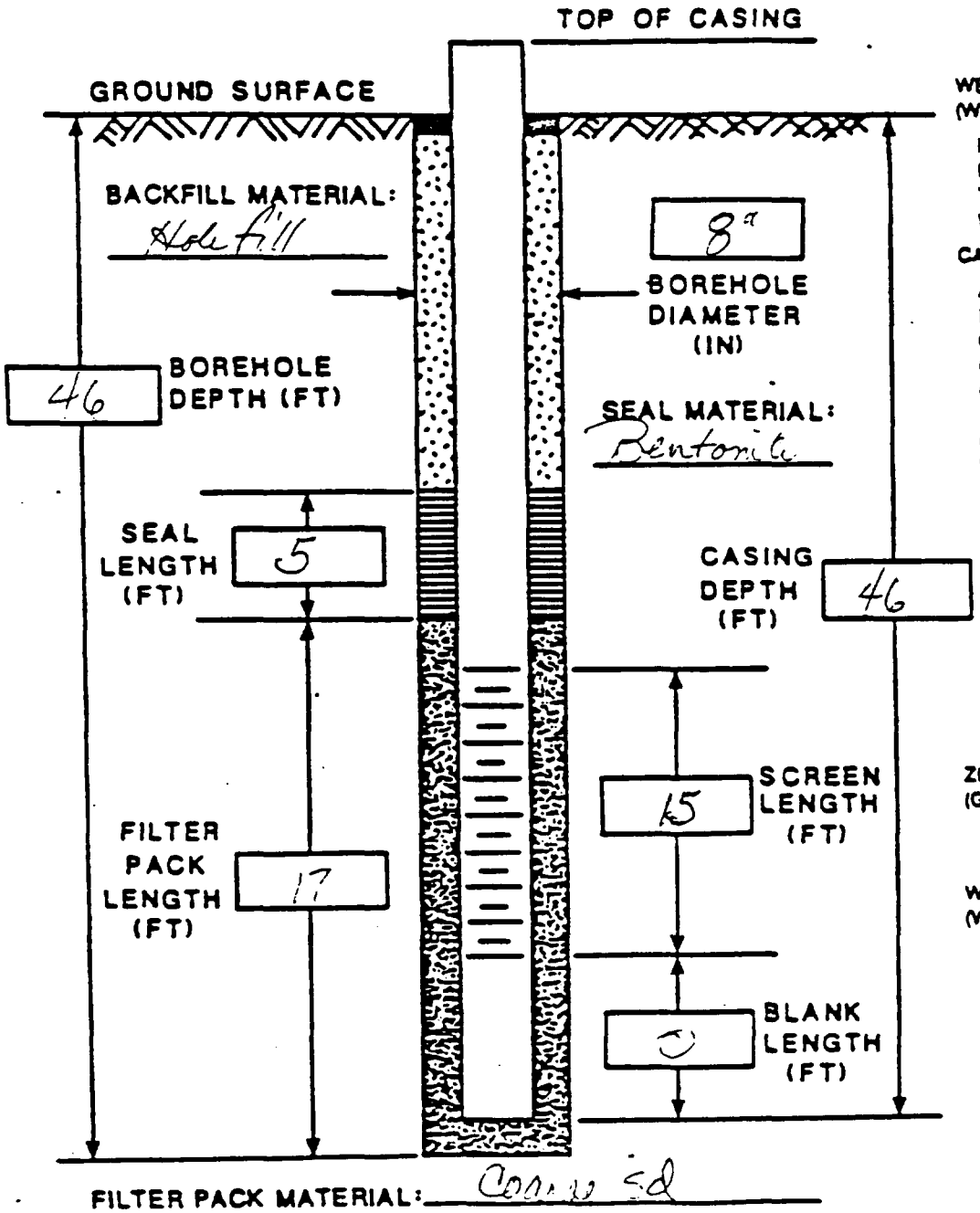
INSTALLATION ID ELM. (0087) (0016)
LOCATION ID D13-02
WELL OWNER
WELL TYPE CLASS. MW
FORMATION OF COMPLETION SAND

LOCATION TYPE WL
INSTALLATION DATE July 16 1988
INSTALLER Willows / Dugan
WELL COMPLETION METHOD GS
ZONE OF COMPLETION ~~SAND~~ 31-46 ft

SEAL END DEPTH (FT) 31 ft
MEAS. POINT ELEV. (FTMSL) 210.96
CASING DEPTH (FT) 46'
CASING DIAMETER (IN) 2"
CASING MATERIAL PVC

FILTER PACK LENGTH (FT) 17
SCREEN BEGIN. DEPTH (FT) 31'
SCREEN LENGTH (FT) 15'
SCREEN SLOT SIZE (IN) .02

REMARKS



WELL TYPE CLASSIFICATIONS (WTCCODE)
- MNW - MONITORING WELL
- PRW - PRODUCTION WELL
- TST - TEST WELL
- WSW - WATER SUPPLY WELL

CASING MATERIAL (CMACODE)
- ABS - ABS
- BRK - BRICK
- CBS - CARBON STEEL
- CNC - CONCRETE
- COP - COPPER
- FBG - FIBERGLASS
- GLS - GALVANIZED STEEL
- WRI - WROUGHT IRON
- SLS - STAINLESS STEEL
- LCS - LOW CARBON STEEL
- M - OTHER METAL
- TFL - TEFLON
- PLY - POLYPROPYLENE
- PVC - PVC
- RST - ROCK OR STONE
- STL - STEEL
- TIL - TILE
- COS - COATED STEEL
- WD - WOOD

ZONE OF COMPLETION (GZCCODE)
- A - AQUIFER
- C - CONFINING LAYER

WELL COMPLETION METHODS: (WCMCODE)
- C - POROUS CONCRETE
- GP - GRAVEL PACK W/PERF.
- GS - GRAVEL PACK W/SCREEN
- H - HORIZONTAL GALLERY
- OE - OPEN END
- P - PERFORATED OR SLOTTE
- S - SCREEN
- SP - SAND POINT
- W - WALLED OR SHORED
- OP - OPEN

BOREHOLE LOG (SOIL)

INSTALLATION ID ELM (0687) (0687) LOCATION ID D13-02(016)
LOCATION TYPE BH LOCATION PROXIMITY I
COORDINATES (FT): NORTH _____ EAST _____
SURFACE ELEVATION (FTMSL) 205
DRILLER CODE _____ CONSTRUCTION METHOD HS
DATE STARTED July 16 DATE COMPLETED July 16, 1988
BOREHOLE DEPTH (FT.) 46' BOREHOLE DIAM. (IN) 8"

GROUNDWATER LEVELS		
DATE	TIME	DEPTH (FT)
July 16, 1988	1100	36'9" from surface

LOCATION DESCRIPTION
As mapped

MAP REFERENCE ID _____ LOCATION CROSS REFERENCE _____

LITHOLOGIC LOG LOGGER CODE AH

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
1							.5	N		Soil -
3										
5	↓	9"	—	U	—		0	N	SM	Brown coarse sand w/ pebbles, clean & moist
7										
9										
11	↓	9"	↓	U	016/ 0001		(200+) 10	N	GM	Gray brown silty gravel w/ some clay
13										
15	↓	14"		U			10 200+	N	GM	Brown silty gravel w/ some clay grading into Sandy gravel w/ trace silt
17										
19								N		
21	↓	14"		U	*		3cm 20+ clayey 0 - s/gravel		GM	Brown - Black clayey silty gravel grading into Lt. brown s/ly, sdy gravel - damp
23										* Kept a representative sample of black clayey material from 20'
25	↓	9"		U			0	N	GM	Lt. brown sdy gravel w/ some silt & clay sample damp
27										
29										

LOCATION PROXIMITY (LPRCODE)
I - WITHIN INSTALLATION O - OUTSIDE INSTALLATION

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

CONSTRUCTION METHODS (CMCODE)
- AR - AIR ROTARY
- B - BORED OR AUGERED
- C - CABLE-TOOL
- D - DUG
- HS - HOLLOW STEM AUGER
- J - JETTED
- P - AIR-PERCUSSION
- RM - REVERSE ROTARY, MUD
- T - TRENCHING
- V - DRIVEN
- W - DRIVE AND WASH

SAMPLE METHODS (SSMCODE)
- A - AUGER CUTTINGS
- S - 2" O.D. 1.38" I.D. DRIVE SAMPLE
- U - 3" O.D. 2.42" I.D. TUBE SAMPLE
- T - 3" O.D. THIN-WALLED SHELBY TUBE

BOREHOLE LOG (SOIL)

INSTALLATION ID ELM (0687)
LOCATION ID D13-02(016)
DATE STARTED July 16, 1988

LITHOLOGIC LOG

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
31	↓	9"	—	U			N	N	CM	Brown gravel w/ some sd & some silt occasional coal fragment - damp
33										
35										
37										
39	↓	18"	↓	U	016 0002		N	N	SW	gray med sd grading into gravelly sd clean, wet
41										
43										
45										
47		TD @ 46'								complete hole as monitoring well

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

WELL COMPLETION INFORMATION

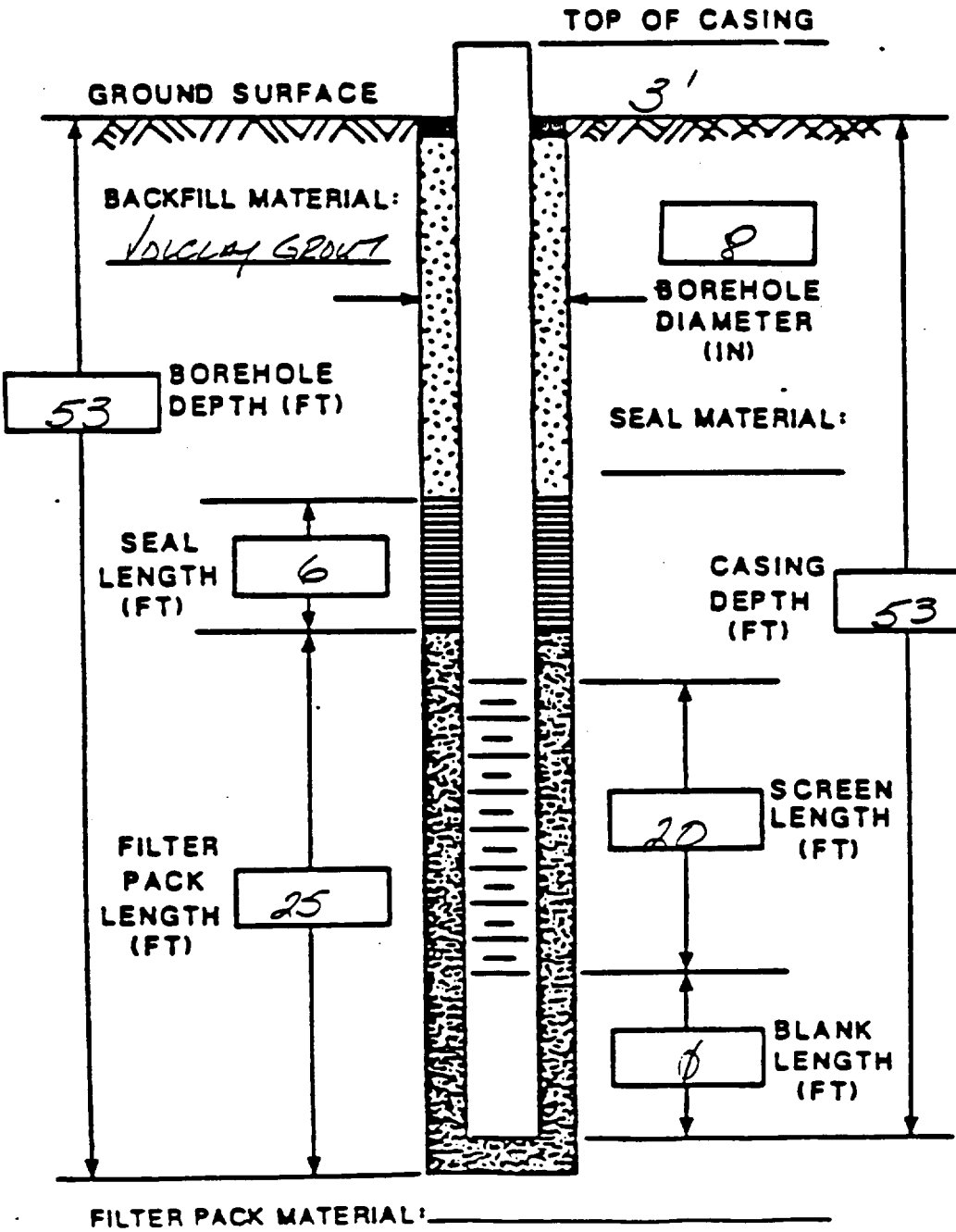
INSTALLATION ID Elmendorf AFB
LOCATION ID D13-03
WELL OWNER
WELL TYPE CLASS. MNW
FORMATION OF COMPLETION GRAVEL

LOCATION TYPE WL
INSTALLATION DATE 7/19/82
INSTALLER B&V
WELL COMPLETION METHOD HS
ZONE OF COMPLETION A

SEAL END DEPTH (FT)
MEAS. POINT ELEV. (FTMSL)
CASING DEPTH (FT) 53
CASING DIAMETER (IN) 2
CASING MATERIAL PVC

FILTER PACK LENGTH (FT) 25
SCREEN BEGIN. DEPTH (FT) 53
SCREEN LENGTH (FT) 20
SCREEN SLOT SIZE (IN) .010

REMARKS



WELL TYPE CLASSIFICATIONS (WTCODE)
- MNW - MONITORING WELL
- PRW - PRODUCTION WELL
- TST - TEST WELL
- WSW - WATER SUPPLY WELL

CASING MATERIAL (CMACODE)
- ABS - ABS
- BRK - BRICK
- CBS - CARBON STEEL
- CNC - CONCRETE
- COP - COPPER
- FBG - FIBERGLASS
- GLS - GALVANIZED STEEL
- WRI - WROUGHT IRON
- SLS - STAINLESS STEEL
- LCS - LOW CARBON STEEL
- M - OTHER METAL
- TFL - TEFLON
- PLY - POLYPROPYLENE
- PVC - PVC
- RST - ROCK OR STONE
- STL - STEEL
- TIL - TILE
- COS - COATED STEEL
- WD - WOOD

ZONE OF COMPLETION (GZCODE)
- A - AQUIFER
- C - CONFINING LAYER

WELL COMPLETION METHODS (WCMCODE)
- C - POROUS CONCRETE
- GP - GRAVEL PACK W/PERF
- GS - GRAVEL PACK W/SCI
- H - HORIZONTAL GALLERY
- OE - OPEN END
- P - PERFORATED OR SLOTTE
- S - SCREEN
- SP - SAND POINT
- W - WALLED OR SHORED
- OP - OPEN

BOREHOLE LOG (SOIL)

INSTALLATION ID. Elmendorf AFB — LOCATION ID DB-03
LOCATION TYPE MW — LOCATION PROXIMITY I
COORDINATES (FT): NORTH ____ EAST ____
SURFACE ELEVATION (FTMSL) ____
DRILLER CODE DD — CONSTRUCTION METHOD HS
DATE STARTED 7/18/88 — DATE COMPLETED 7/18/88
BOREHOLE DEPTH (FT.) 53 — BOREHOLE DIAM. (IN) 8

GROUNDWATER LEVELS		
DATE	TIME	DEPTH (FT)
7/18/88		35.5' B.T.D.

LOCATION DESCRIPTION

MAP REFERENCE ID ____ LOCATION CROSS REFERENCE ____

LITHOLOGIC LOG — LOGGER CODE RH

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
2									PT	PEAT
4							N	N	SC/ML	SILTS & CLAYS
6		15"		U					GC	GRAVEL - DENSE, VARIED COLORS, COBBLE
8										TO FINE PEBBLE SIZE, POORLY SORTED,
10										SUB-ANGULAR, 50% CLAY MATRIX, SILTY
12		15"		U			N	N		
14										
16		18"								GRAVEL - DENSE VARIED COLORS V. COARSE
18				U			N	N	GC	PEBBLE TO GRANULAR SIZE, POORLY SORTED,
20										SUB-ANGULAR TO ROUNDED, 60% RED. BROWN
22		18"		U			800ppm	N		CLAY & FINE SAND MATRIX
24										
26		18"		U			.01ppm	N		GRAVEL - DENSE VARIED COLORS V. COARSE
28									GC	PEBBLE TO GRANULAR SIZE, POORLY SORTED,
30										SUB-ANGULAR, ~60% DK. BROWN CLAY W/
										FINE SAND MATRIX

LOCATION PROXIMITY (LPRCODE)
I - WITHIN INSTALLATION O - OUTSIDE INSTALLATION

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

CONSTRUCTION METHODS (CMCCODE)
- AR - AIR ROTARY
- B - BORED OR AUGERED
- C - CABLE-TOOL
- D - DUG
- HS - HOLLOW STEM AUGER
- J - JETTED
- P - AIR-PERCUSSION
- RM - REVERSE ROTARY, MUD
- T - TRENCHING
- V - DRIVEN
- W - DRIVE AND WASH

SAMPLE METHODS (SSMCODE)
- A - AUGER CUTTINGS
- S - 2" O.D. 1.38" I.D. DRIVE SAMPLE
- U - 3" O.D. 2.42" I.D. TUBE SAMPLE
- T - 3" O.D. THIN-WALLED SHELBY TUBE

BOREHOLE LOG (SOIL)

INSTALLATION ID ELMENDORF AFB
LOCATION ID DS-22 DATE STARTED 7/18/88

LITHOLOGIC LOG

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
32	↕			4			N	N	GC	GRAVEL - DENSE, VARIED COLORS, COARSE
34										PEBBLE TO GRANULE SIZE, POORLY
36	↕			4	017 0001		N	N		SORTED, SUB-ANGULAR TO SUB-ROUNDED
38										w/40% DK. BROWN CLAY & FINE SAND
40										IN MATRIX
42										BECOMES MORE CLAYEY
44										
46	↕			4	017 0002		N	N		GRAVEL - DENSE, VARIED COLORS, COARSE
48									GC	PEBBLE TO GRANULE SIZE, POORLY SORTED,
50										SUB-ANGULAR TO ROUNDED w/33%
52										DK. BROWN CLAY & 23% MED. TO COARSE
54										GRAINED DIGGING SANDS
										TD 53 ft.
										WELL SET @ 53 ft

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

WELL COMPLETION INFORMATION

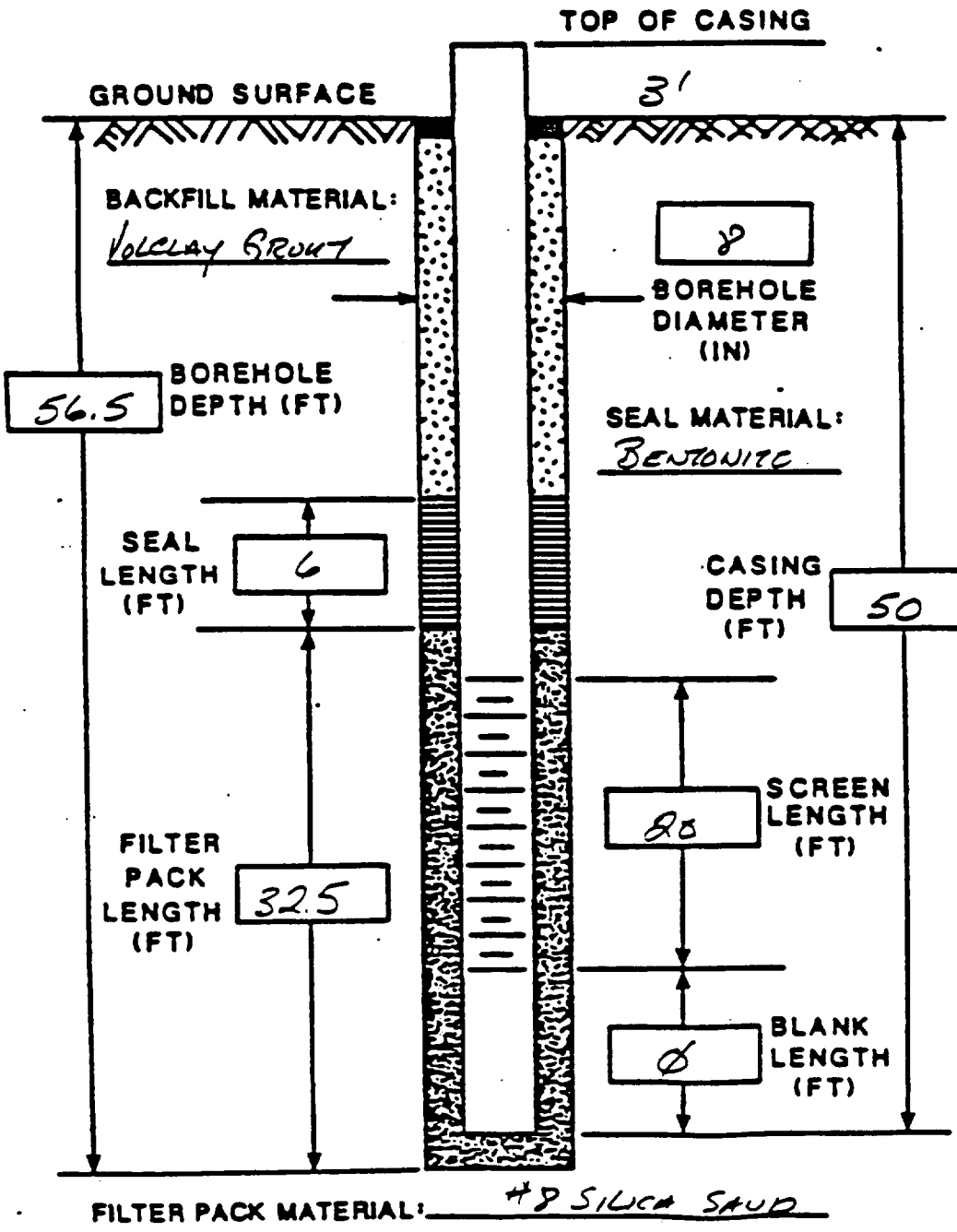
INSTALLATION ID ELMENDORF AFB
LOCATION ID MS2-01 (106)
WELL OWNER
WELL TYPE CLASS. MNW
FORMATION OF COMPLETION GRAVELS

LOCATION TYPE WL
INSTALLATION DATE 7/15/87
INSTALLER B&U
WELL COMPLETION METHOD 5
ZONE OF COMPLETION 50-30

SEAL END DEPTH (FT)
MEAS. POINT ELEV. (FTMSL) 211.34
CASING DEPTH (FT) 50
CASING DIAMETER (IN) 2
CASING MATERIAL PVC

FILTER PACK LENGTH (FT) 32.5
SCREEN BEGIN. DEPTH (FT) 50
SCREEN LENGTH (FT) 20
SCREEN SLOT SIZE (IN) .010

REMARKS



WELL TYPE CLASSIFICATIONS (WTCCODE)
- MNW - MONITORING WELL
- PRW - PRODUCTION WELL
- TST - TEST WELL
- WSW - WATER SUPPLY WELL

CASING MATERIAL (CMACODE)
- ABS - ABS
- BRK - BRICK
- CBS - CARBON STEEL
- CNC - CONCRETE
- COP - COPPER
- FBG - FIBERGLASS
- GLS - GALVANIZED STEEL
- WRI - WROUGHT IRON
- SLS - STAINLESS STEEL
- LCS - LOW CARBON STEEL
- M - OTHER METAL
- TFL - TEFLON
- PLY - POLYPROPYLENE
- PVC - PVC
- RST - ROCK OR STONE
- STL - STEEL
- TIL - TILE
- COS - COATED STEEL
- WD - WOOD

ZONE OF COMPLETION (GZCCODE)
- A - AQUIFER
- C - CONFINING LAYER

WELL COMPLETION METHODS: (WCMCODE)
- C - POROUS CONCRETE
- GP - GRAVEL PACK W/PERF.
- GS - GRAVEL PACK W/SCRE
- H - HORIZONTAL GALLER
- OE - OPEN END
- P - PERFORATED OR SLOTTE
- S - SCREEN
- SP - SAND POINT
- W - WALLED OR SHORED
- OP - OPEN

BOREHOLE LOG (SOIL)

INSTALLATION ID Elmendorf AFB
LOCATION ID NS2-01 (SOIL) 106
LOCATION TYPE BH
LOCATION PROXIMITY I
COORDINATES (FT): NORTH _____ EAST _____
SURFACE ELEVATION (FTMSL) _____
DRILLER CODE DISC
CONSTRUCTION METHOD HS
DATE STARTED 7/15/88
DATE COMPLETED 7/15/88
BOREHOLE DEPTH (FT.) 56.5 ft
BOREHOLE DIAM. (IN) 8 IN

GROUNDWATER LEVELS		
DATE	TIME	DEPTH (FT)

LOCATION DESCRIPTION
NE CORNER of NS2-5.76

MAP REFERENCE ID _____
LOCATION CROSS REFERENCE _____

LITHOLOGIC LOG
LOGGER CODE _____

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
2	↕			A			N	N	GC	GRAVEL DENSE, COARSE PEBBLES TO COBBLES, POORLY SORTED, V. CLAYEY, SILTY, DRY.
4										
6	↕	14"		U			N	N	GC	
8										
10										
12	↕	0"		U			N	N		
14										
16	↕	15"		U			N	N	SP	SAND - DENSE, DK. BROWN, MED. GRAINED, POORLY SORTED, V. CLAYEY W/ GRAVELS MOIST
18										
20										GRAVEL - LOOSE, COARSE PEBBLE TO COBBLE SIZE, POORLY SORTED, W/50% MED. SAND, CLAYEY; MOIST, TO DRY.
22	↕	13"		U			N	N		
24										CLAY TO 33% MATRIX
26	↕	15"		U			N	N	GC	GRAVEL - COARSE TO MED PEBBLE SIZE
28										67% MED GRAINED SANDS &
30										33% DK. BROWN CLAY.

LOCATION PROXIMITY (LPRCODE)
I - WITHIN INSTALLATION O - OUTSIDE INSTALLATION

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

CONSTRUCTION METHODS (CMCCODE)
- AR - AIR ROTARY
- B - BORED OR AUGERED
- C - CABLE-TOOL
- D - DUG
- HS - HOLLOW STEM AUGER
- J - JETTED
- P - AIR-PERCUSSION
- RM - REVERSE ROTARY, MUD
- T - TRENCHING
- V - DRIVEN
- W - DRIVE AND WASH

SAMPLE METHODS (SSMCODE)
- A - AUGER CUTTINGS
- S - 2" O.D. 1.38" I.D. DRIVE SAMPLE
- U - 3" O.D. 2.42" I.D. TUBE SAMPLE
- T - 3" O.D. THIN-WALLED SHELBY TUBE

BOREHOLE LOG (SOIL)

INSTALLATION ID ELMENDORF AFB
LOCATION ID NS2-01/06 DATE STARTED 7/15/82

LITHOLOGIC LOG

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
32	↕	19"		4			N	N	GC	GRAVEL - LOOSE, FINE TO COARSE PEBBLE SIZE, W/33% MED. GRAINED SAND, 33% DK. BROWN CLAY.
34	↕									
36										
38										▼ 38ft A.T.D.
40										
42	↕	18"		4	109 0001		N	N	GC	
44										
46										
47										
50										
52										
54										
56	↕	18"		4	109 0002		N	N	SP	SAND - DENSE, DK. GRAY, MED. TO COARSE GRAINED, WELL SORTED, WOOD, ROUNDED, V. CLAYEY, SILTY, WET.
58										
										T.D. 56.5ft
										WELL SET @ 50ft

CLASS/CODE - SEE SAITCODE LIST, THEN APPROPRIATE CODE LIST

Borehole Log

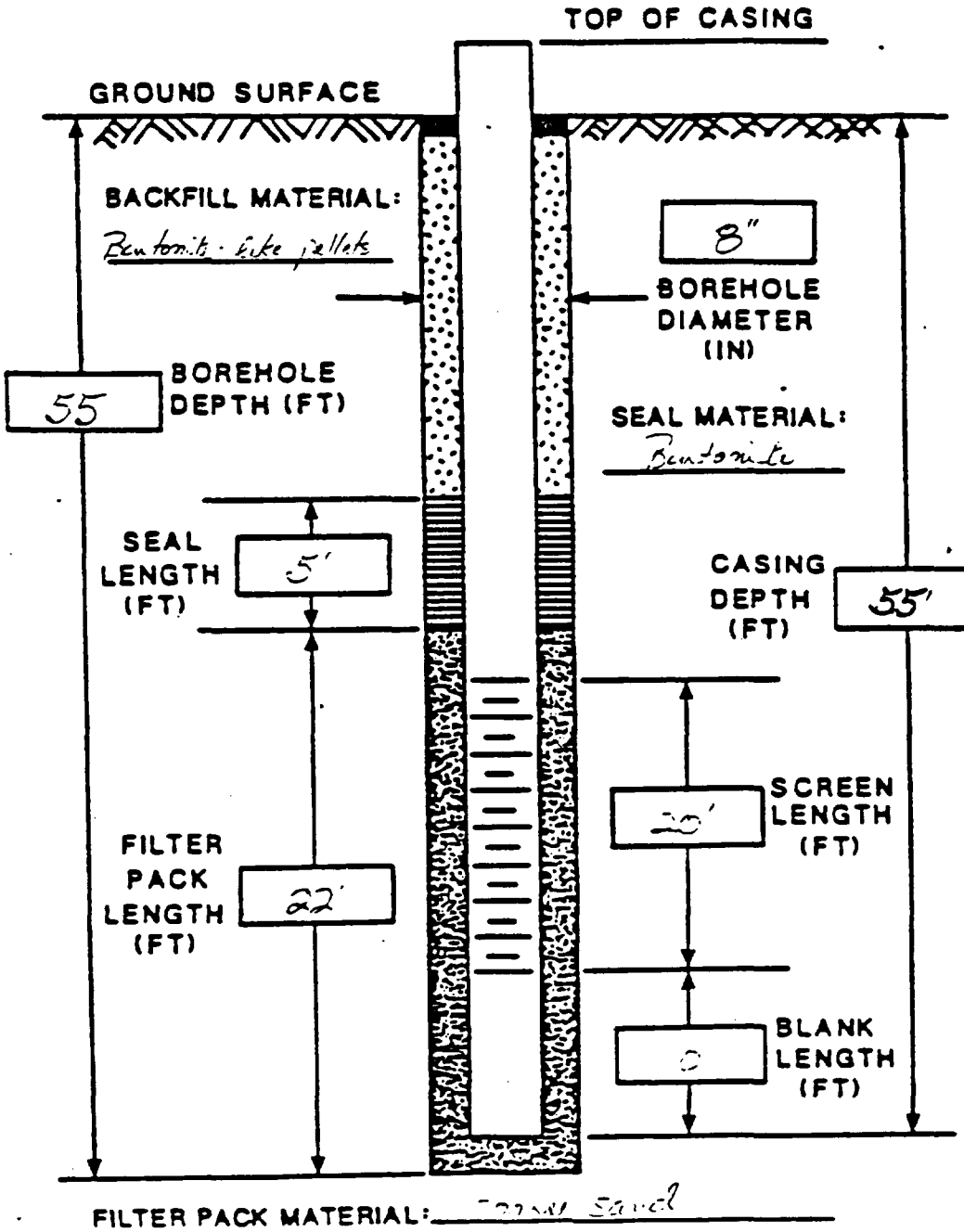
WELL COMPLETION INFORMATION

INSTALLATION ID ELM (0297)
LOCATION ID 15S-2-2 (107)
WELL OWNER A.F
WELL TYPE CLASS. MNW
FORMATION OF COMPLETION Sand

LOCATION TYPE WL
INSTALLATION DATE July 15 1988
INSTALLER
WELL COMPLETION METHOD GS
ZONE OF COMPLETION

SEAL END DEPTH (FT)
MEAS. POINT ELEV. (FTMSL)
CASING DEPTH (FT) 55'
CASING DIAMETER (IN) 2"
CASING MATERIAL PVC
REMARKS

FILTER PACK LENGTH (FT) 22
SCREEN BEGIN. DEPTH (FT) 55
SCREEN LENGTH (FT) 20
SCREEN SLOT SIZE (IN)



WELL TYPE CLASSIFICATIONS (WTCODE)
- MNW - MONITORING WELL
- PRW - PRODUCTION WELL
- TST - TEST WELL
- WSW - WATER SUPPLY WELL

CASING MATERIAL (CMACODE)
- ABS - ABS
- BRK - BRICK
- CBS - CARBON STEEL
- CNC - CONCRETE
- COP - COPPER
- FBG - FIBERGLASS
- GLS - GALVANIZED STEEL
- WRI - WROUGHT IRON
- SLS - STAINLESS STEEL
- LCS - LOW CARBON STEEL
- M - OTHER METAL
- TFL - TEFLON
- PLY - POLYPROPYLENE
- PVC - PVC
- RST - ROCK OR STONE
- STL - STEEL
- TIL - TILE
- COS - COATED STEEL
- WD - WOOD

ZONE OF COMPLETION (GZCODE)
- A - AQUIFER
- C - CONFINING LAYER

WELL COMPLETION METHODS: (WCMCODE)
- C - POROUS CONCRETE
- GP - GRAVEL PACK W/PERF.
- GS - GRAVEL PACK W/SCREEN
- H - HORIZONTAL GALLERY
- OE - OPEN END
- P - PERFORATED OR SLOTTE
- S - SCREEN
- SP - SAND POINT
- W - WALLED OR SHORED
- OP - OPEN

WPartt 109

BOREHOLE LOG (SOIL)

INSTALLATION ID ELM (0687) LOCATION ID WS-2-02 (one)(107)
LOCATION TYPE BH LOCATION PROXIMITY ____
COORDINATES (FT): NORTH ____ EAST ____
SURFACE ELEVATION (FTMSL) ____
DRILLER CODE ____ CONSTRUCTION METHOD HS
DATE STARTED July 15, 1988 DATE COMPLETED July 15, 1988
BOREHOLE DEPTH (FT.) 55' BOREHOLE DIAM. (IN) 9"

GROUNDWATER LEVELS		
DATE	TIME	DEPTH (FT)
July 15, 1988	11:25	~28'5" from collar
July 15, 1988	11:50	38'3" "

LOCATION DESCRIPTION
~30' NW access road to gravel pit &
1/8 mile from east of main road

MAP REFERENCE ID ____ LOCATION CROSS REFERENCE ____

LITHOLOGIC LOG LOGGER CODE JW

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
1										0-3' dk brown soil w/ some coal fragments @3' hit gravel
3										
5		9"		U			—	N	GM	dk brown - blk soil (mayn slutt) w/ coal frag Silty SD w/ cobbles, low moisture
7										
9										
11		4"		U			—	N	GM	Brown gravel w/ few fines · some med SD & silt
13										
15		9"		U	[illegible]		5	N	GM	Brown gravel w coarse SD & some silt
17										
19										
21		9"		U			1	N	GM	Brown coarse SD & gravel w/ some silt
23										
25		14"		U			—	N	GM	Brown gravel & sand w/ some clay, dk brown fine lithic chips, damp
27										
29										

LOCATION PROXIMITY (LPRCODE)
I - WITHIN INSTALLATION O - OUTSIDE INSTALLATION

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

CONSTRUCTION METHODS (CMCCODE)
AR - AIR ROTARY
B - BORED OR AUGERED
C - CABLE-TOOL
D - DUG
HS - HOLLOW STEM AUGER
J - JETTED
P - AIR-PERCUSSION
RM - REVERSE ROTARY, MUD
T - TRENCHING
V - DRIVEN
W - DRIVE AND WASH

SAMPLE METHODS (SSMCODE)
A - AUGER CUTTINGS
S - 2" O.D. 1.38" I.D. DRIVE SAMPLE
U - 3" O.D. 2.42" I.D. TUBE SAMPLE
T - 3" O.D. THIN-WALLED SHELBY TUBE

Turnstile LOG

BOREHOLE LOG (SOIL)

INSTALLATION ID ELM (0687)
LOCATION ID NS2-02

DATE STARTED July 15, 1988

LITHOLOGIC LOG

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
31	↓	12"		U			–	N	SM/SC	Brown coarse grained Sd w/some cobbles, some clay grading into silty sand
33										
35										
37										
39										
41	↓	16"	002/002	U	002/002		–	N	SM	Brown coarse Sand w/ some. Silt & Cobbles
43										
45										
47										
49										
51	↓	9"		U			–	N	SM	Brown med Sand grading into coarse Sd w/ Cobbles, some Silt - wet
53										
55	——	TD								
57										Completed hole as monitoring well
59										
60										

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

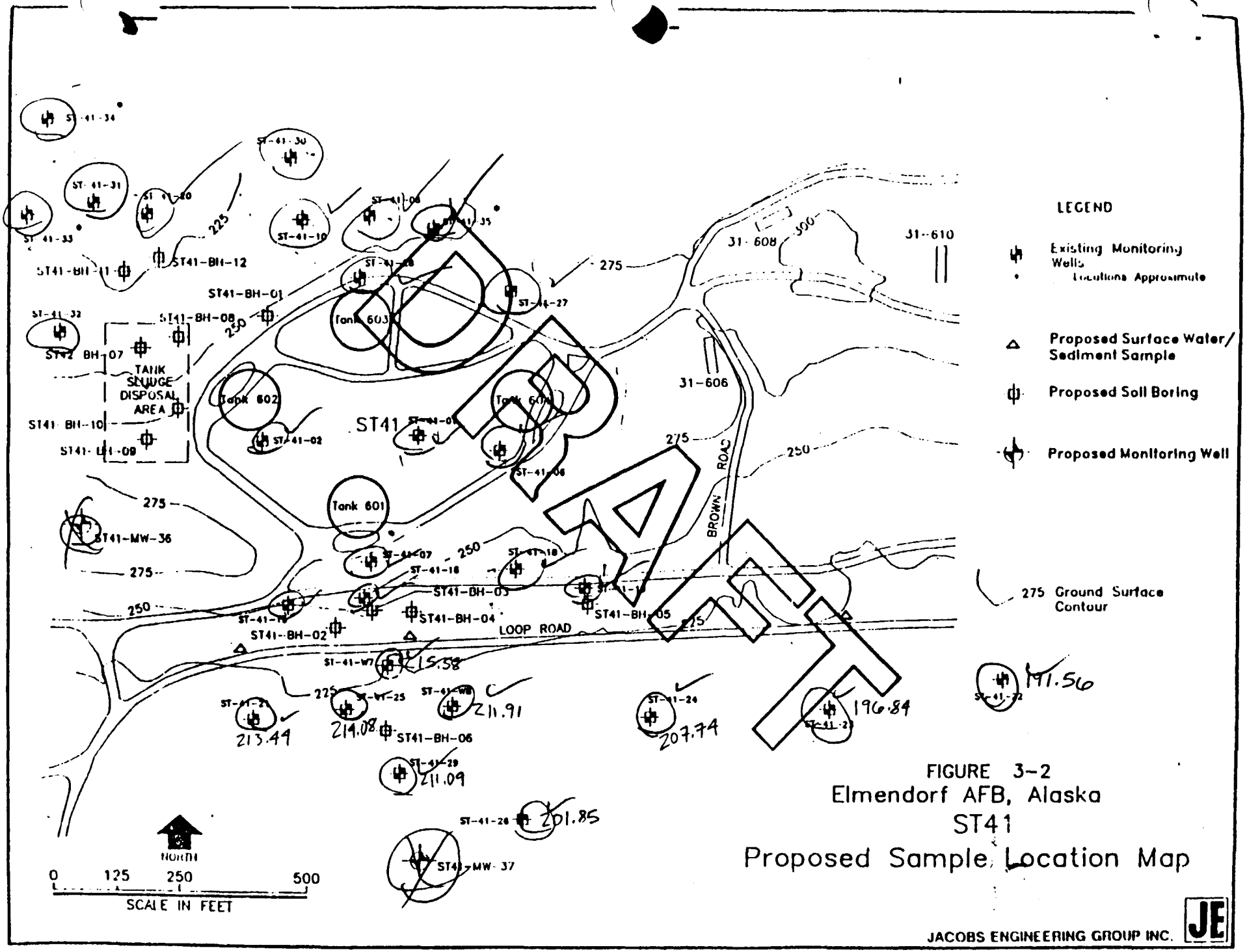
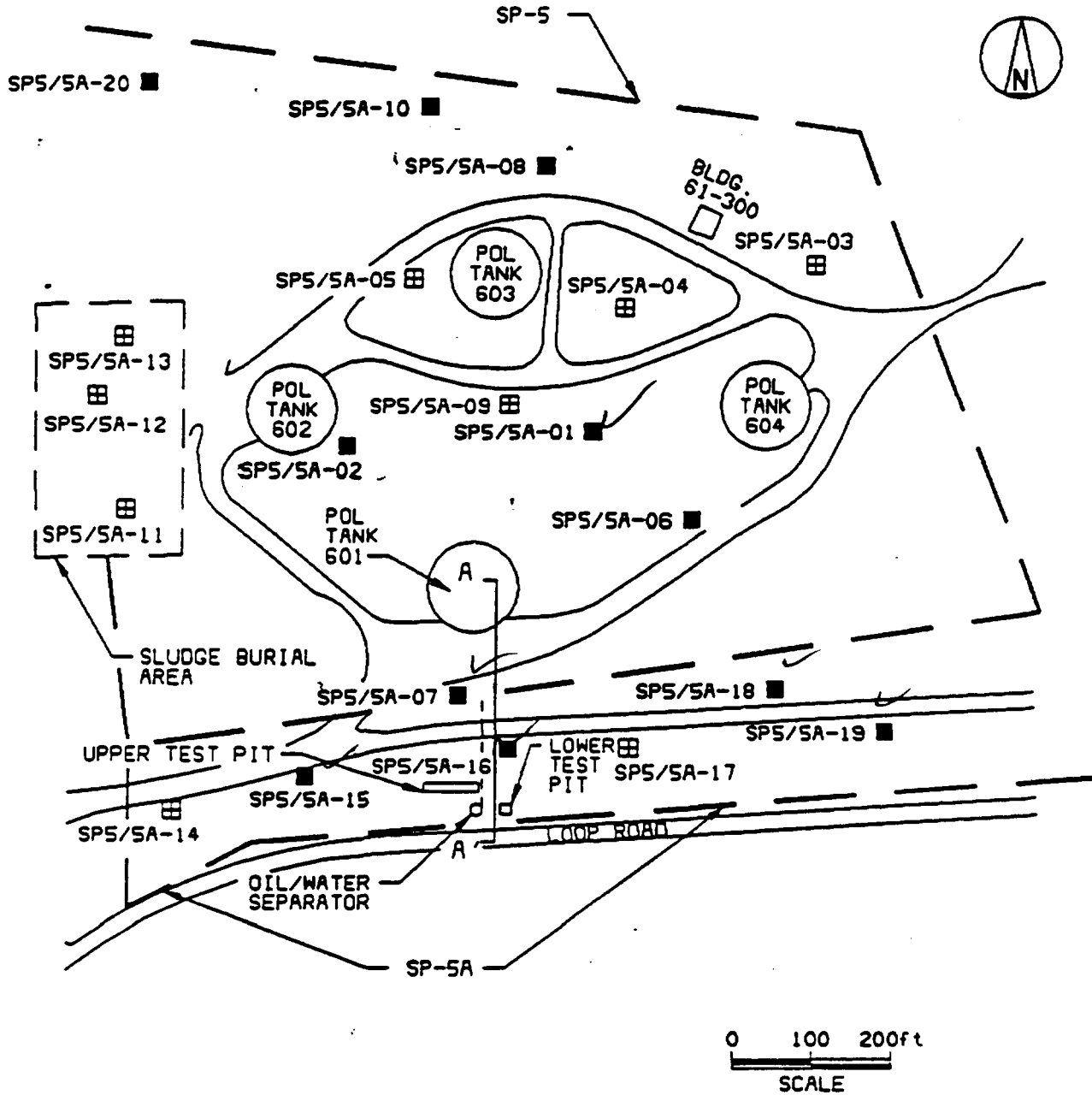


FIGURE 3-2
Elmendorf AFB, Alaska
ST41
Proposed Sample Location Map

JACOBS ENGINEERING GROUP INC.



OU2 ST41

LEGEND

- ⊞ SP5/SA-01 TEST BORING
- ■ SP5/SA-03 BORING COMPLETED AS A MONITORING WELL
- A ⌊ A′ CROSS-SECTION
- - - - - - - BURIED DRAIN PIPE TO OIL/WATER SEPARATOR

SITE LOCATION MAP

SITE SP-5/SA

IRP Stage 3 RI/FS
Elmendorf AFB, AK

Figure 4.2.20.1

PIEZOMETER DETAIL INFORMATION SHEET

GROUND SURFACE ELEVATION _____

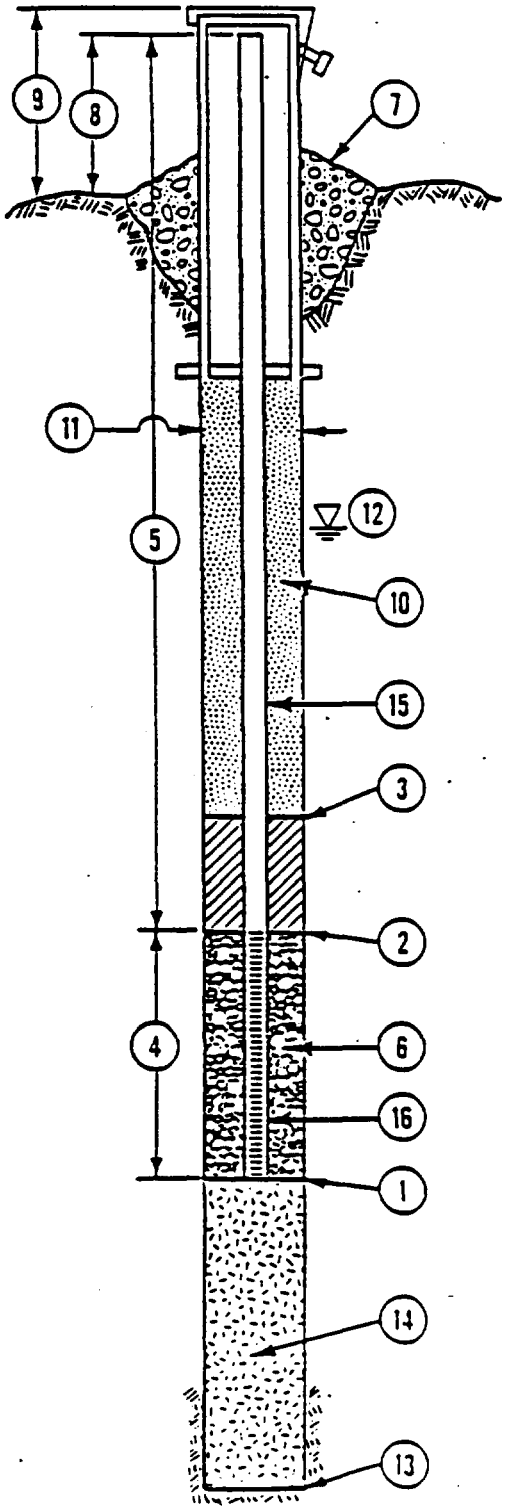
TOP OF WELL CASING ELEVATION _____

JOB NUMBER 1016-200

BORING NUMBER W-7

DATE 6/3

LOCATION Elmendorf



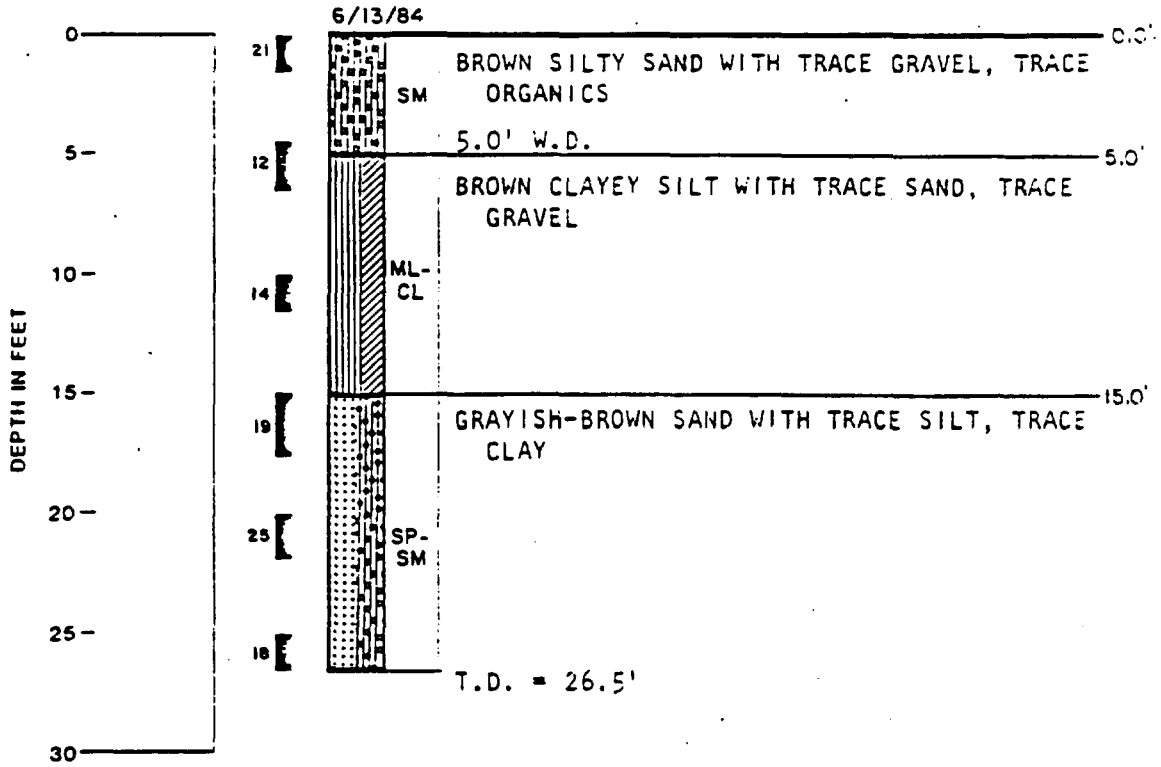
1. DEPTH TO BOTTOM OF WELL POINT OR SLOTTED PIPE 25 FEET.*
2. DEPTH TO BOTTOM OF SEAL (IF INSTALLED) 23 FEET.*
3. DEPTH TO TOP OF SEAL (IF INSTALLED) 21 FEET.*
4. LENGTH OF WELL SCREEN 22 FEET. SLOT SIZE .01 .
5. TOTAL LENGTH OF PIPE 2 FEET AT 2 INCH DIAMETER.
6. TYPE OF PACK AROUND WELL POINT OR SLOTTED PIPE natural sand .
7. CONCRETE CAP. (YES) NO (CIRCLE ONE)
8. HEIGHT OF WELL CASING ABOVE GROUND 1 FEET.
9. PROTECTIVE CASING? (YES) NO (CIRCLE ONE)
   HEIGHT ABOVE GROUND 4 FEET.
   LOCKING CAP? (YES) NO (CIRCLE ONE)
10. TYPE OF UPPER BACKFILL Cement .
11. BOREHOLE DIAMETER 8 INCHES.
12. DEPTH TO GROUND WATER 5 FEET.*
13. TOTAL DEPTH OF BOREHOLE 25 FEET.*
14. TYPE OF LOWER BACKFILL Native .
15. PIPE MATERIAL PVC .
16. SCREEN MATERIAL PVC .

*(DEPTH FROM GROUND SURFACE)

PIEZOMETER INSTALLATION DETAILS

Dames & Moore

ELMENDORF AFB
BORING W-7



LOG OF BORING

Dames & Moore

PLATE C-11

PIEZOMETER DETAIL INFORMATION SHEET

GROUND SURFACE ELEVATION _____

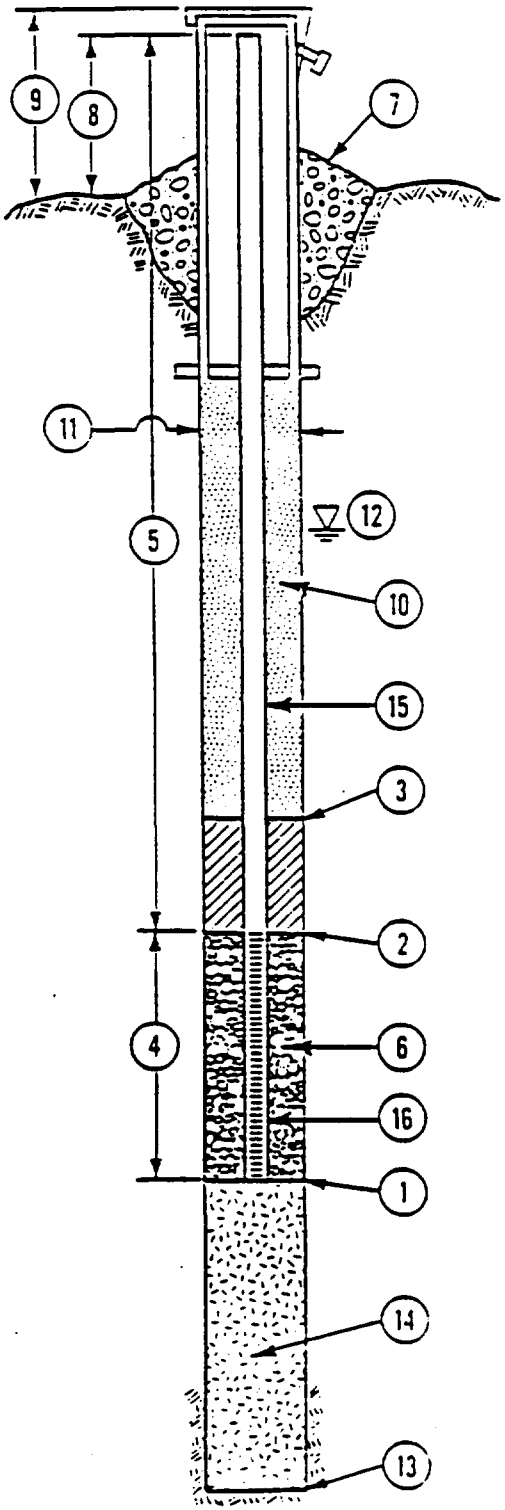
TOP OF WELL CASING ELEVATION _____

JOB NUMBER 10126-200

BORING NUMBER G-E

DATE 6/12/84

LOCATION Excavation 4



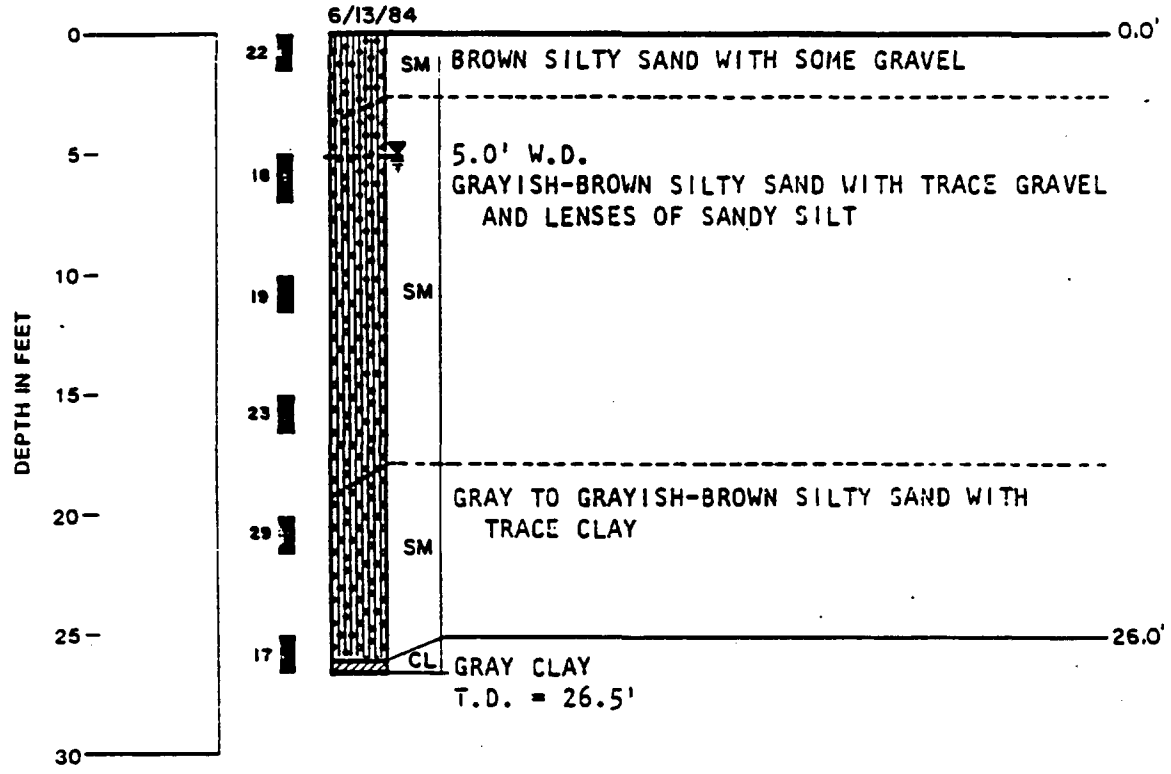
1. DEPTH TO BOTTOM OF WELL POINT OR SLOTTED PIPE 25 FEET.*
2. DEPTH TO BOTTOM OF SEAL (IF INSTALLED) 5 FEET.*
3. DEPTH TO TOP OF SEAL (IF INSTALLED) 2 FEET.*
4. LENGTH OF WELL SCREEN 20 FEET. SLOT SIZE .01.
5. TOTAL LENGTH OF PIPE 6 FEET AT 2 INCH DIAMETER.
6. TYPE OF PACK AROUND WELL POINT OR SLOTTED PIPE Natural Sand
7. CONCRETE CAP. (YES) NO (CIRCLE ONE)
8. HEIGHT OF WELL CASING ABOVE GROUND 1 FEET.
9. PROTECTIVE CASING? (YES) NO (CIRCLE ONE) HEIGHT ABOVE GROUND 6.25 FEET LOCKING CAP? (YES) NO (CIRCLE ONE)
10. TYPE OF UPPER BACKFILL Cement
11. BOREHOLE DIAMETER 8 INCHES
12. DEPTH TO GROUND WATER 5 FEET.*
13. TOTAL DEPTH OF BOREHOLE 25 FEET.*
14. TYPE OF LOWER BACKFILL Sand
15. PIPE MATERIAL PVC Sched-40
16. SCREEN MATERIAL PVC Sched-40

*(DEPTH FROM GROUND SURFACE)

PIEZOMETER INSTALLATION DETAILS

Dames & Moore

ELMENDORF AFB
BORING W-8



LOG OF BORING

Dames & Moore

PLATE C-12

WELL COMPLETION INFORMATION

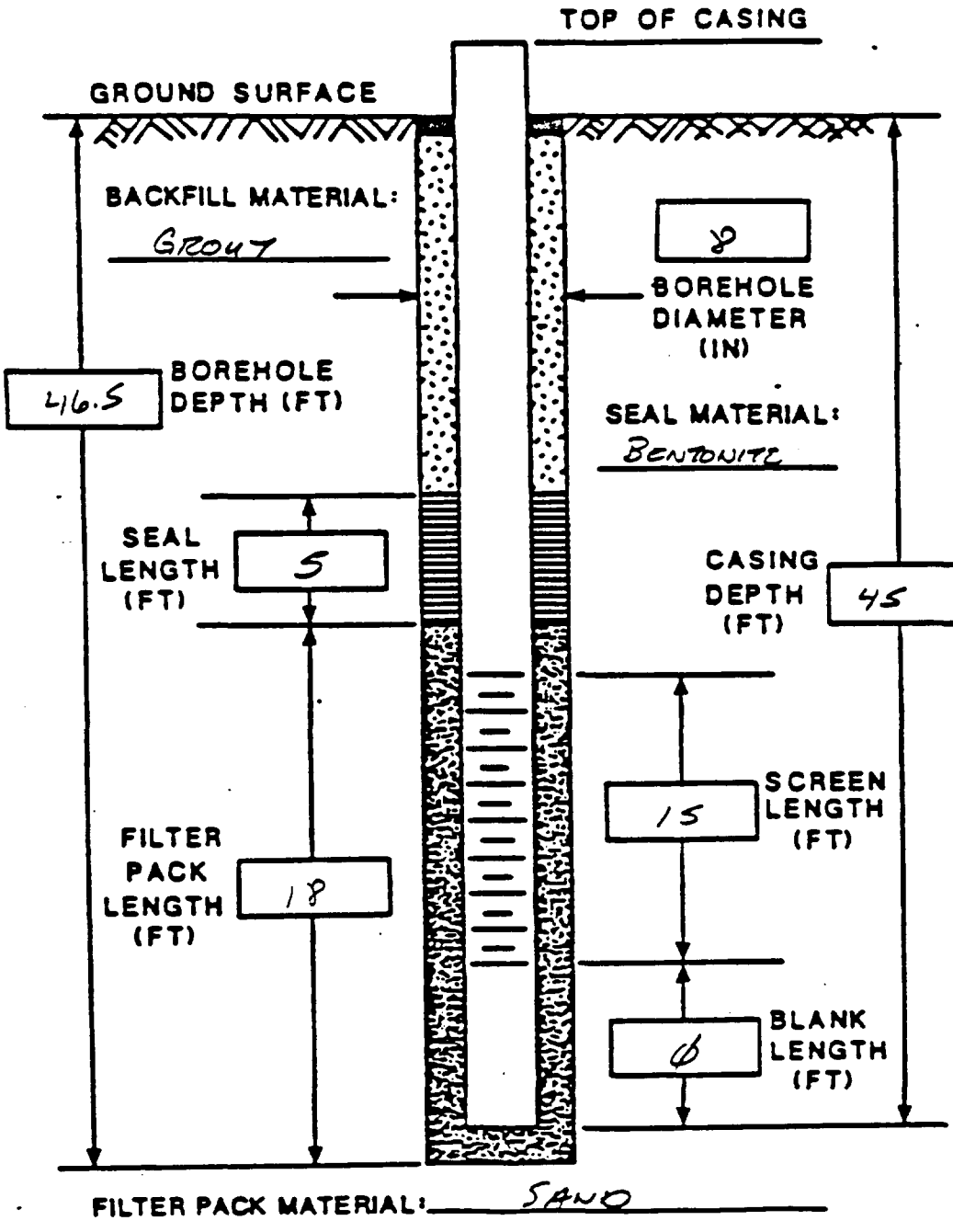
INSTALLATION ID ELMENDORF AFB
LOCATION ID SPS-01 (072)
WELL OWNER
WELL TYPE CLASS MNW
FORMATION OF COMPLETION SAND/GRAVEL

LOCATION TYPE WL
INSTALLATION DATE 7/9/88
INSTALLER B&V
WELL COMPLETION METHOD GS
ZONE OF COMPLETION 45-50

SEAL END DEPTH (FT) 27
MEAS. POINT ELEV. (FTMSL)
CASING DEPTH (FT) 45
CASING DIAMETER (IN) 2"
CASING MATERIAL PVC

FILTER PACK LENGTH (FT) 18
SCREEN BEGIN. DEPTH (FT) 45
SCREEN LENGTH (FT) 15
SCREEN SLOT SIZE (IN) .02

REMARKS



WELL TYPE CLASSIFICATIONS (WTCODE)
- MNW - MONITORING WELL
- PRW - PRODUCTION WELL
- TST - TEST WELL
- WSW - WATER SUPPLY WELL

CASING MATERIAL (CMACODE)
- ABS - ABS
- BRK - BRICK
- CBS - CARBON STEEL
- CNC - CONCRETE
- COP - COPPER
- FBG - FIBERGLASS
- GLS - GALVANIZED STEEL
- WRI - WROUGHT IRON
- SLS - STAINLESS STEEL
- LCS - LOW CARBON STEEL
- M - OTHER METAL
- TFL - TEFLON
- PLY - POLYPROPYLENE
- PVC - PVC
- RST - ROCK OR STONE
- STL - STEEL
- TIL - TILE
- COS - COATED STEEL
- WD - WOOD

ZONE OF COMPLETION (GZCCODE)
- A - AQUIFER
- C - CONFINING LAYER

WELL COMPLETION METHODS: (WCMCODE)
- C - POROUS CONCRETE
- GP - GRAVEL PACK W/PERF.
- GS - GRAVEL PACK W/SCREE
- H - HORIZONTAL GALLERY
- OE - OPEN END
- P - PERFORATED OR SLOTTE
- S - SCREEN
- SP - SAND POINT
- W - WALLED OR SHORED
- OP - OPEN

BOREHOLE LOG (SOIL)

INSTALLATION ID ELMENDORF AFB — LOCATION ID SDS-01 (072)
LOCATION TYPE BH — LOCATION PROXIMITY I
COORDINATES (FT): NORTH _____ EAST _____
SURFACE ELEVATION (FTMSL) _____
DRILLER CODE DISC. — CONSTRUCTION METHOD HS
DATE STARTED 7-9-88 — DATE COMPLETED 7-9-88
BOREHOLE DEPTH (FT.) 46.5 ft — BOREHOLE DIAM. (IN) 8 in

GROUNDWATER LEVELS		
DATE	TIME	DEPTH (FT)
7/11/88	0835	34 ft

LOCATION DESCRIPTION

MAP REFERENCE ID _____ LOCATION CROSS REFERENCE _____

LITHOLOGIC LOG — LOGGER CODE _____

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
2				A			N	N	CL	CLAY - SOFT, MED. BROWN, SANDY, SILTY, WORKS GRAVELS DRY
4										
6		8"		A			N	N	CL	CLAY - MED ST. TO MED OLIVE-BROWN V. SANDY, SILTY W/ MED. TO SMALL GRAVELS, DRY
8										
10										
12		9"		A			N	N	CL	CLAY - MED. ST. TO MED. OLIVE-BROWN, V. SANDY, SILTY W/LARGE GRAVELS, DRY
14										
16		12"		A			N	N	CL	
18									SP	SAND - LOOSE, MED. GRAY/OLIVE-BROWN, COARSE GRAINED, POORLY SORTED, WELL ROUNDED, CLAYEY, MOIST.
20										CLAY - MED ST. TO MED. OLIVE-BROWN, SANDY SILTY, W/SMALL GRAVELS, DRY
22		18"		A			N	N	CL	
24									SP	SAND - LOOSE, MED OLIVE-BROWN, FINE TO COARSE GRAINED, POORLY SORTED, WELL ROUNDED, CLAYEY, MOIST.
26		12"		A			N	N		CLAY - MED. ST. TO MED. OLIVE-BROWN, SANDY, SL. SILTY W/GRAVELS of VARYING SIZES
28										
30										

LOCATION PROXIMITY (LPRCODE)
I - WITHIN INSTALLATION O - OUTSIDE INSTALLATION

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

CONSTRUCTION METHODS (CMCCODE)

AR - AIR ROTARY
B - BORED OR AUGERED
C - CABLE-TOOL
D - DUG
HS - HOLLOW STEM AUGER
J - JETTED
P - AIR-PERCUSSION
RM - REVERSE ROTARY, MUD
T - TRENCHING
V - DRIVEN
W - DRIVE AND WASH

SAMPLE METHODS (SSMCODE)

A - AUGER CUTTINGS
S - 2" O.D. 1.38" I.D. DRIVE SAMPLE
U - 3" O.D. 2.42" I.D. TUBE SAMPLE
T - 3" O.D. THIN-WALLED SHELBY TUBE

BOREHOLE LOG (SOIL)

INSTALLATION ID Elmendorf AFB
LOCATION ID SPS-01 (072)
DATE STARTED 7-9-88

LITHOLOGIC LOG

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
32	↕	16'		4			N	N	CL	CLAY - MED. ST. H, MED. OLIVE-BROWN, U. SAND, SILTY W/SMALL GRAVELS.
34										
36										
38										
40							8ppm	N		▽ 39 ft. AT TIME of DRILLING
42	↕	16"		4	072 0001				SW	SAND - DENSE, OLIVE-GRAY, FINE TO MED. GRAINED WELL SORTED, WELL ROUNDED, CLEAN,
44									SP	BECOMING VERY GRAVELLY
46	↕	14"		4	072 0002		9ppm	N	GC	GRAVELS DECREASING
47							N	N	CL	CLAY - STIFF, OLIVE-BROWN, U. SAND, SILTY, W/SMALL GRAVELS
50										BOTTOM of WATER LENS @ 46ft, TOP of CLAY.
										T.D. 46.5ft. WELL SET @ 45ft.

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

WELL COMPLETION INFORMATION

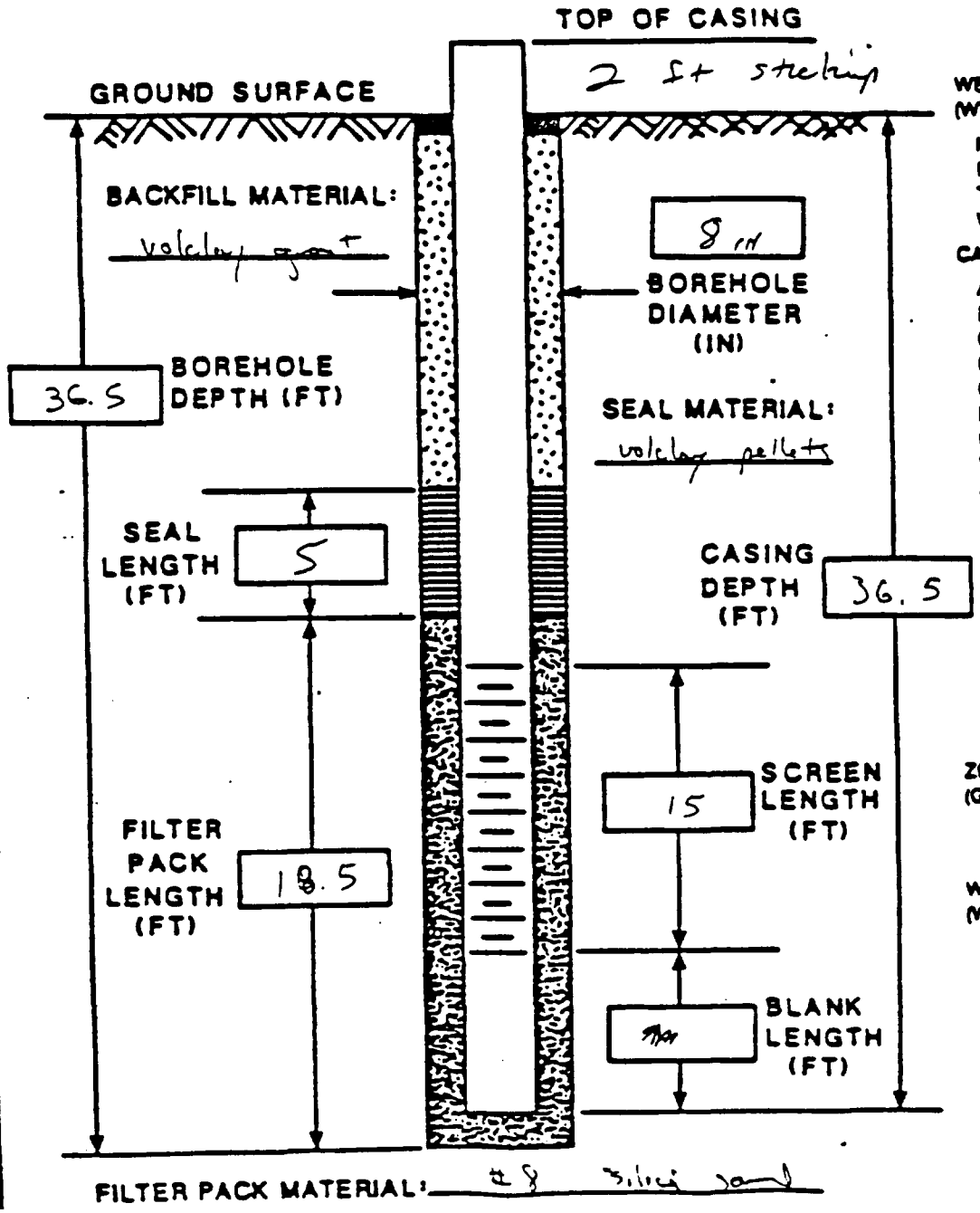
INSTALLATION ID 0687 Ecm
LOCATION ID SPS-02 (073)
WELL OWNER USAF
WELL TYPE CLASS. MNW
FORMATION OF COMPLETION silty gravel

LOCATION TYPE WL
INSTALLATION DATE 9 Jul 8
INSTALLER WCC
WELL COMPLETION METHOD GS
ZONE OF COMPLETION A

SEAL END DEPTH (FT) _____
MEAS. POINT ELEV. (FTMSL) _____
CASING DEPTH (FT) 36.5
CASING DIAMETER (IN) 2 in ID
CASING MATERIAL PVC

FILTER PACK LENGTH (FT) 18.5
SCREEN BEGIN. DEPTH (FT) 20
SCREEN LENGTH (FT) 15
SCREEN SLOT SIZE (IN) .02 in

REMARKS _____



WELL TYPE CLASSIFICATIONS (WTCCODE)
- MNW - MONITORING WELL
- PRW - PRODUCTION WELL
- TST - TEST WELL
- WSW - WATER SUPPLY WELL

CASING MATERIAL (CMACODE)
- ABS - ABS
- BRK - BRICK
- CBS - CARBON STEEL
- CNC - CONCRETE
- COP - COPPER
- FBG - FIBERGLASS
- GLS - GALVANIZED STEEL
- WRI - WROUGHT IRON
- SLS - STAINLESS STEEL
- LCS - LOW CARBON STEEL
- M - OTHER METAL
- TFL - TEFLON
- PLY - POLYPROPYLENE
- PVC - PVC
- RST - ROCK OR STONE
- STL - STEEL
- TIL - TILE
- COS - COATED STEEL
- WD - WOOD

ZONE OF COMPLETION (GZCCODE)
- A - AQUIFER
- C - CONFINING LAYER

WELL COMPLETION METHODS (WCMCODE)
- C - POROUS CONCRETE
- GP - GRAVEL PACK W/PERF.
- GS - GRAVEL PACK W/SC
- H - HORIZONTAL GALLER
- OE - OPEN END
- P - PERFORATED OR SLOTTE
- S - SCREEN
- SP - SAND POINT
- W - WALLED OR SHORED
- OP - OPEN

BOREHOLE LOG (SOIL)

INSTALLATION ID SLM (0697) LOCATION ID SLS-02 (073)
LOCATION TYPE BH LOCATION PROXIMITY I
COORDINATES (FT): NORTH _____ EAST _____
SURFACE ELEVATION (FTMSL) _____
DRILLER CODE _____ CONSTRUCTION METHOD HS
DATE STARTED 8 July 88 DATE COMPLETED 8 July 88
BOREHOLE DEPTH (FT.) 365 ft BOREHOLE DIAM. (IN) 8 in

GROUNDWATER LEVELS		
DATE	TIME	DEPTH (FT)
8 July 88	1620	22.5 [TOC]

LOCATION DESCRIPTION
80 ft 8° SE of wood pole in tank 602 area

MAP REFERENCE ID _____ LOCATION CROSS REFERENCE _____

LITHOLOGIC LOG LOGGER CODE _____

Time	DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
1200 1130	1 -										0 - 18 ft: brown silty
	3 -										gravel with some sand
	5 -	↧	↧		U			N	N	GM	damp, dense
	7 -										
	9 -										
1500	11 -	↓	↓	↓	U	073/0001		N	N		
	13 -										
	15 -	↧	↧		U			N	N		
1345	17 -										
	19 -									ML	18 - 23 ft: brown sandy
	21 -	↓	↓		U			N	N		silt with trace gravel
1330 RD	23 -	↓	↓		U			N	N		very moist, very stiff
1340	25 -	↧	↧	↧	U	073/0002		N	N	GM	23 - 28 : brown silty
	27 -										gravel with some sand
	29 -										wet, very dense

LOCATION PROXIMITY (LPRCODE)
I - WITHIN INSTALLATION O - OUTSIDE INSTALLATION

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

CONSTRUCTION METHODS (CMCCODE)
AR - AIR ROTARY
B - BORED OR AUGERED
C - CABLE-TOOL
D - DUG
HS - HOLLOW STEM AUGER
J - JETTED
P - AIR-PERCUSSION
RM - REVERSE ROTARY, MUD
T - TRENCHING
V - DRIVEN
W - DRIVE AND WASH

SAMPLE METHODS (SSMCODE)
A - AUGER CUTTINGS
S - 2" O.D. 1.38" I.D. DRIVE SAMPLE
U - 3" O.D. 2.42" I.D. TUBE SAMPLE
T - 3" O.D. THIN-WALLED SHELBY TUBE

BOREHOLE LOG (SOIL)

INSTALLATION ID S/M (0687)
LOCATION ID SPS-02 (073)

DATE STARTED 8 July 88

LITHOLOGIC LOG

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
30										
31	↓	↓		U			N	N	GM	28-35 ft : Gray sandy, silt, gravel, wet very dense
33										
35	T	T	T	U	073/0003		N	N		
37	↓	↓	↓							
										T.D. @ 36.5 ft @ 1415
										Installed 2in ID monitoring well
										- screened between 22-37 ft below top of casing

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

WELL COMPLETION INFORMATION

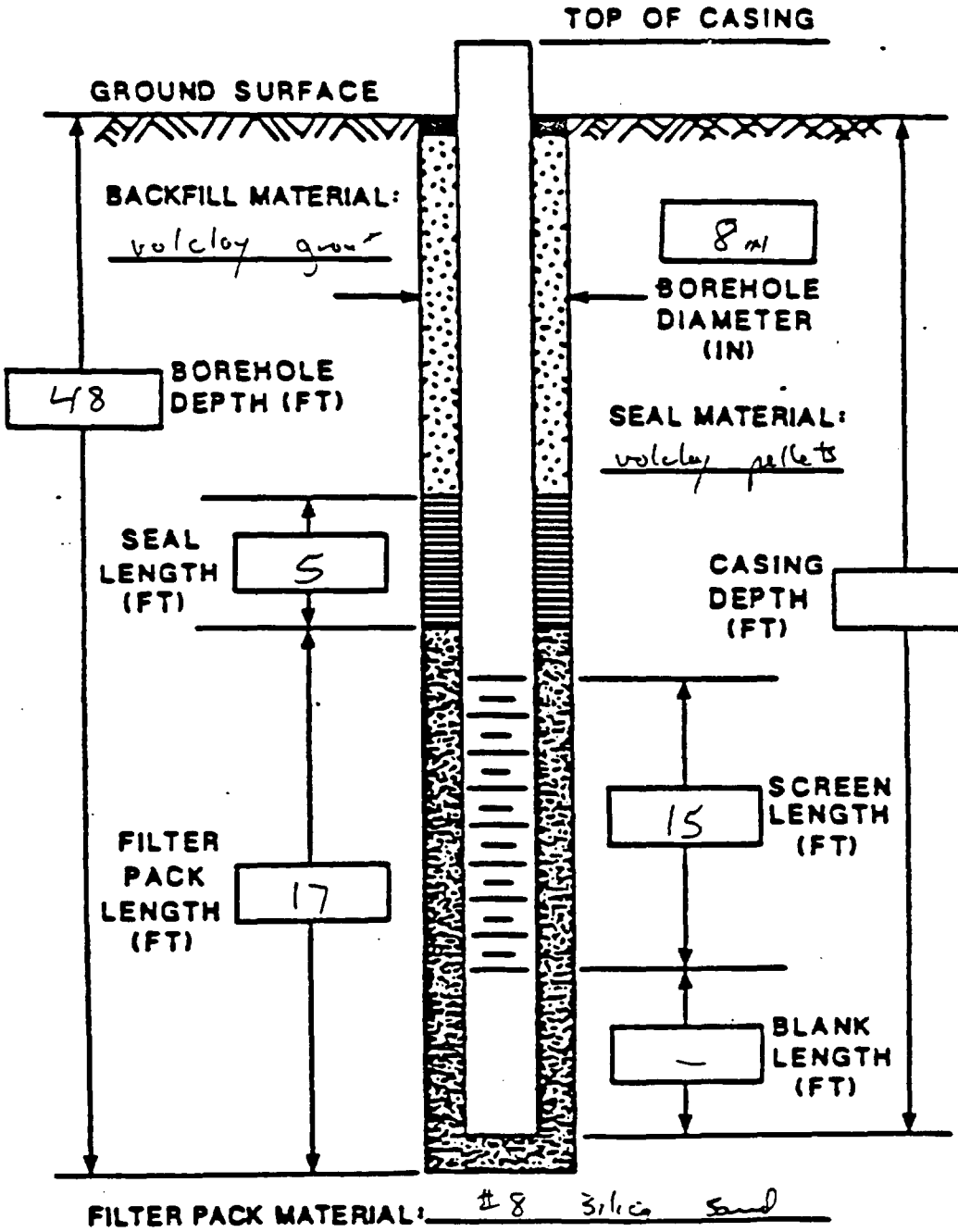
INSTALLATION ID ECM 0687
LOCATION ID SPS-06 (077)
WELL OWNER USAF
WELL TYPE CLASS MNW
FORMATION OF COMPLETION 1

LOCATION TYPE WL
INSTALLATION DATE 9 July 88
INSTALLER WCC
WELL COMPLETION METHOD GS
ZONE OF COMPLETION A

SEAL END DEPTH (FT) ____
MEAS. POINT ELEV. (FT MSL) ____
CASING DEPTH (FT) 48
CASING DIAMETER (IN) 2 in ID
CASING MATERIAL PVC

FILTER PACK LENGTH (FT) 17
SCREEN BEGIN. DEPTH (FT) 33
SCREEN LENGTH (FT) 15
SCREEN SLOT SIZE (IN) .02 in

REMARKS ____



WELL TYPE CLASSIFICATIONS (WTCCODE)
- MNW - MONITORING WELL
- PRW - PRODUCTION WELL
- TST - TEST WELL
- WSW - WATER SUPPLY WELL

CASING MATERIAL (CMACODE)
- ABS - ABS
- BRK - BRICK
- CBS - CARBON STEEL
- CNC - CONCRETE
- COP - COPPER
- FBG - FIBERGLASS
- GLS - GALVANIZED STEEL
- WRI - WROUGHT IRON
- SLS - STAINLESS STEEL
- LCS - LOW CARBON STEEL
- M - OTHER METAL
- TFL - TEFLON
- PLY - POLYPROPYLENE
- PVC - PVC
- RST - ROCK OR STONE
- STL - STEEL
- TIL - TILE
- COS - COATED STEEL
- WD - WOOD

ZONE OF COMPLETION (GZCCODE)
- A - AQUIFER
- C - CONFINING LAYER

WELL COMPLETION METHODS: (WCMCODE)
- C - POROUS CONCRETE
- GP - GRAVEL PACK W/PERF.
- GS - GRAVEL PACK W/SCREEN
- H - HORIZONTAL GALLERY
- OE - OPEN END
- P - PERFORATED OR SLOTTE
- S - SCREEN
- SP - SAND POINT
- W - WALLED OR SHORED
- OP - OPEN

BOREHOLE LOG (SOIL)

INSTALLATION ID ELM (0687) LOCATION ID SPS-06 (077)
LOCATION TYPE BH LOCATION PROXIMITY I
COORDINATES (FT): NORTH _____ EAST _____
SURFACE ELEVATION (FTMSL) _____
DRILLER CODE _____ CONSTRUCTION METHOD HS
DATE STARTED 9 July 88 DATE COMPLETED 9 July 88
BOREHOLE DEPTH (FT.) 48 ft BOREHOLE DIAM. (IN) 8 in

GROUNDWATER LEVELS		
DATE	TIME	DEPTH (FT)
9 July 88	1100	41 (ground)
9 July 88	1300	37.5 (ground)

LOCATION DESCRIPTION
22 ft west of soil gas probe #65 at SPS site. Inside east side of POL loop road.

MAP REFERENCE ID _____ LOCATION CROSS REFERENCE _____

LITHOLOGIC LOG LOGGER CODE _____

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
0800 1									GM	0 - 3 ft: brown sandy gravel w/ some silt
3										
0830 5	↓	↓	↓	U	077 0001		N	N	SM	3 - 8 ft: brown fine sand
7	↓	↓	↓							with some silt, trace gravel damp, dense
9										
0845 11	↓	↓		U			N	N	ML	8 - 18 ft: brown sandy silt
13										with some gravel damp very stiff
0900 15	↓	↓		U			N	N		
17									ML	18 - 28 ft: gray-brn silt with some
19										sand, some gravel trace clay
0915 21	↓	↓		U			N	N		moist, very stiff (upper Bonthagen Cave formation)
23										
0930 25	↓	↓	↓	U	077 0002		N	N		
27	↓	↓	↓							
29									GM	28 - 33 ft: gray-brn sandy gravel with some silt, cobbles

LOCATION PROXIMITY (LPRCODE)
I - WITHIN INSTALLATION O - OUTSIDE INSTALLATION

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

CONSTRUCTION METHODS (CMCCODE)
AR - AIR ROTARY
B - BORED OR AUGERED
C - CABLE-TOOL
D - DUG
HS - HOLLOW STEM AUGER
J - JETTED
P - AIR-PERCUSSION
RM - REVERSE ROTARY, MUD
T - TRENCHING
V - DRIVEN
W - DRIVE AND WASH

SAMPLE METHODS (SSMCODE)
A - AUGER CUTTINGS
S - 3" O.D. 1.38" I.D. DRIVE SAMPLE
U - 3" O.D. 2.42" I.D. TUBE SAMPLE
T - 3" O.D. THIN-WALLED SHELBY TUBE

BOREHOLE LOG (SOIL)

INSTALLATION ID Elm (0687)
LOCATION ID SPS-06 (077)
DATE STARTED 9 July 88

LITHOLOGIC LOG

	DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
0950	31 -	↓	N		U						Rebar on cobble
	33 -	↓	N		U						Refusal on cobble
1010	35 -	↓	↓		U			N	N	ML	33-39 ft: gray silt with some sand, trace gravel, trace some clay, moist
	37 -	↓	↓								
	39 -										
1030	41 -	↓	↓	↓	U	077/0003		3	N	ML	39- ft: gray-brown sandy silt with some gravel, trace clay, moist
	43 -										
	45 -										
1035	47 -										
1130											TD @ 48 ft
											2 in ID PVC monitoring well installed
											screened 33 - 48 ft below ground surface

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

WELL COMPLETION INFORMATION

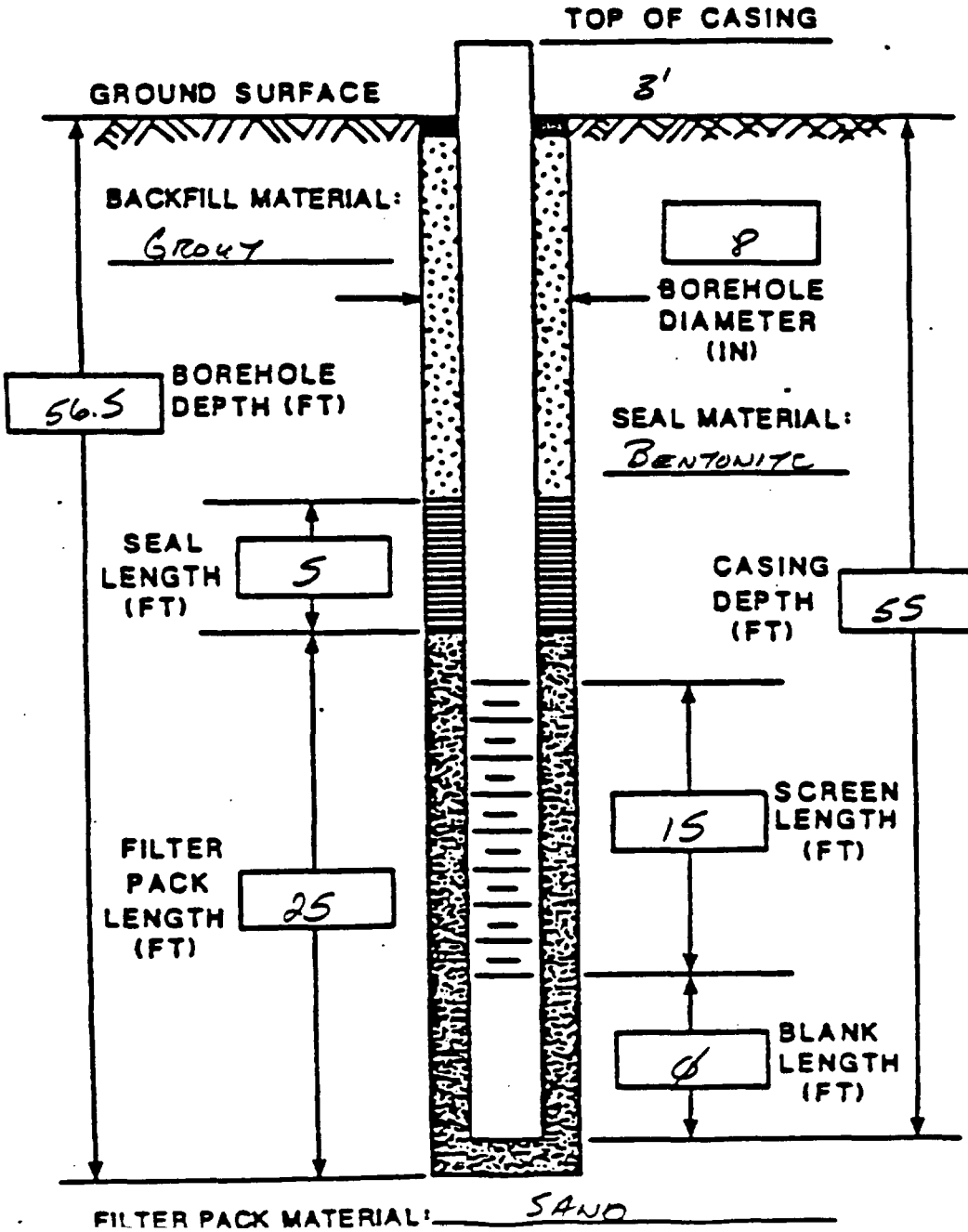
INSTALLATION ID Eglin Door 2 AFB
LOCATION ID SB3-07 (078)
WELL OWNER
WELL TYPE CLASS MNW
FORMATION OF COMPLETION SAND

LOCATION TYPE WL
INSTALLATION DATE 7/8/88
INSTALLER B&V
WELL COMPLETION METHOD GS
ZONE OF COMPLETION SS-40

SEAL END DEPTH (FT) 30
MEAS. POINT ELEV. (FTMSL)
CASING DEPTH (FT) 55
CASING DIAMETER (IN) 2'
CASING MATERIAL PVC

FILTER PACK LENGTH (FT) 25
SCREEN BEGIN. DEPTH (FT) 55
SCREEN LENGTH (FT) 15
SCREEN SLOT SIZE (IN) .02

REMARKS



WELL TYPE CLASSIFICATIONS (WTCCODE)
- MNW - MONITORING WELL
- PRW - PRODUCTION WELL
- TST - TEST WELL
- WSW - WATER SUPPLY WELL

CASING MATERIAL (CMACODE)
- ABS - ABS
- BRK - BRICK
- CBS - CARBON STEEL
- CNC - CONCRETE
- COP - COPPER
- FBG - FIBERGLASS
- GLS - GALVANIZED STEEL
- WRI - WROUGHT IRON
- SLS - STAINLESS STEEL
- LCS - LOW CARBON STEEL
- M - OTHER METAL
- TFL - TEFLON
- PLY - POLYPROPYLENE
- PVC - PVC
- RST - ROCK OR STONE
- STL - STEEL
- TIL - TILE
- COS - COATED STEEL
- WD - WOOD

ZONE OF COMPLETION (GZCCODE)
- A - AQUIFER
- C - CONFINING LAYER

WELL COMPLETION METHODS (WCMCODE)
- C - POROUS CONCRETE
- GP - GRAVEL PACK W/PERF
- GS - GRAVEL PACK W/SC
- H - HORIZONTAL GALLER.
- OE - OPEN END
- P - PERFORATED OR SLOTT
- S - SCREEN
- SP - SAND POINT
- W - WALLED OR SHORED
- OP - OPEN

BOREHOLE LOG (SOIL)

INSTALLATION ID ELMENDORF AFB — LOCATION ID SB87 (078)
LOCATION TYPE BH — LOCATION PROXIMITY I
COORDINATES (FT): NORTH ____ EAST ____
SURFACE ELEVATION (FTMSL) ____
DRILLER CODE DISC. — CONSTRUCTION METHOD HS
DATE STARTED 7-7-8 — DATE COMPLETED 7/8/88
BOREHOLE DEPTH (FT.) 56.5 ft — BOREHOLE DIAM. (IN) 8 IN

GROUNDWATER LEVELS		
DATE	TIME	DEPTH (FT)
7/8/88	1550	27'8"
7/9/88	1226	31'10"

LOCATION DESCRIPTION

MAP REFERENCE ID ____ LOCATION CROSS REFERENCE ____

LITHOLOGIC LOG — LOGGER CODE ____

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
2										ROAD FILL 2'-4'
4									FILL	
6	↕	6"		U			N	N		CLAY - ST. H, GRAY, SL. SANDY & SILTY W/SMALL GRAVELS
8										CLAY - ST. H, MED. BROWN, SANDY/SL. SILTY W/GRAVELS
10										
12	↕	16"		U			N	N	CL	CLAY - ST. H, MED. OLIVE-BROWN W/GRAY, SANDY, SL. SILTY W/GRAVELS
14										
16	↕	16"		U			N	N	CL	CLAY - SOFT TO MED. ST. H MED. OLIVE-BROWN, SANDY, SL. SILTY W/GRAVELS, MOIST
18										
20										
22	↕	18"		U			N	N	CL	
24										
26	↕	18"		U			N	N	CL	CLAY - ST. H MED. BROWN-TAN, SL. SANDY SL. SILTY W/GRAVELS
28										
30										

LOCATION PROXIMITY (LPRCODE)
I - WITHIN INSTALLATION O - OUTSIDE INSTALLATION

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

CONSTRUCTION METHODS (CMCCODE)
- AR - AIR ROTARY
- B - BORED OR AUGERED
- C - CABLE-TOOL
- D - DUG
- HS - HOLLOW STEM AUGER
- J - JETTED
- P - AIR-PERCUSSION
- RM - REVERSE ROTARY, MUD
- T - TRENCHING
- V - DRIVEN
- W - DRIVE AND WASH

SAMPLE METHODS (SSMCODE)
- A - AUGER CUTTINGS
- S - 2" O.D. 1.38" I.D. DRIVE SAMPLE
- U - 3" O.D. 2.42" I.D. TUBE SAMPLE
- T - 3" O.D. THIN-WALLED SHELBY TUBE

BOREHOLE LOG (SOIL)

INSTALLATION ID ELMENDORF AFB
LOCATION ID SPS-07 DATE STARTED 7/7/89

LITHOLOGIC LOG

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
32	↕	19"		4			N	N	CL	CLAY - V. STIFF, MED. GRAY, SL. SANDY, SL. SILTY W/ SMALL GRAVELS, DRY
34										
36										
38										
40										
42	↕	19"		4			N	N	CL	CLAY - V STIFF, MED. OLIVE-GRAY, SANDY, W/ TRACES ± COAL, MOIST
44										
46										
48										▼ 47ft A.T.D.
50	↕	19"		4	OTT 0001		N	N	SW	SAND - DENSE, MED. GRAY, COARSE TO FINE GRAINED, WELL SORTED IN PART, ROUNDED, CLAYEY, SL. SILTY GRADING TO SANDY GRAVELS.
52										
54										
56	↕	19"		4	OTT 0002		N	N	SW	
57										TOTAL DEPTH 56.5ft
										WELL SET @ 55ft.

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

WELL COMPLETION INFORMATION

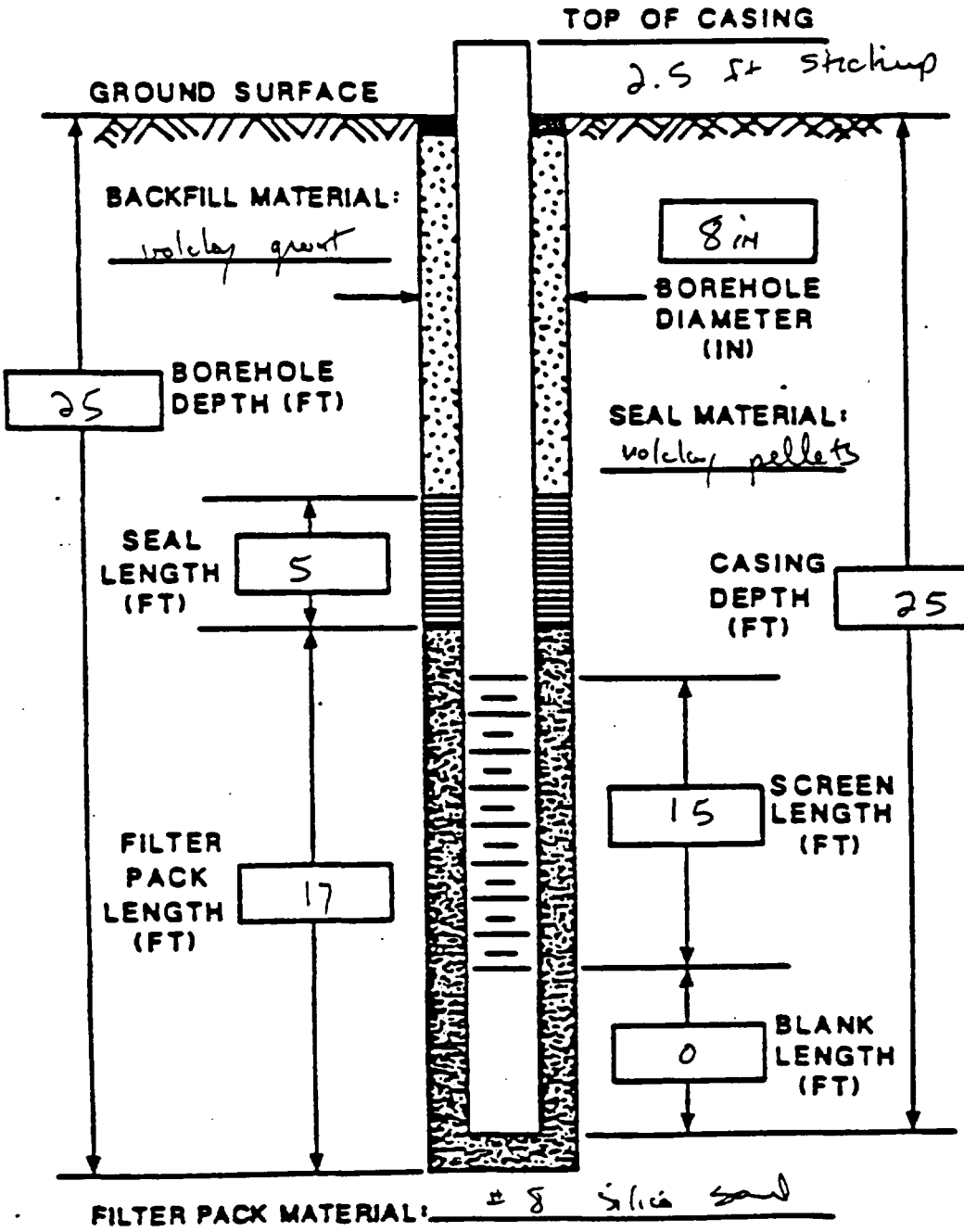
INSTALLATION ID EAFB 0687
LOCATION ID SPS-08 (079)
WELL OWNER USAF
WELL TYPE CLASS. MNW
FORMATION OF COMPLETION silt

LOCATION TYPE WL
INSTALLATION DATE 7 July 87
INSTALLER WCC
WELL COMPLETION METHOD GS
ZONE OF COMPLETION A

SEAL END DEPTH (FT)
MEAS. POINT ELEV. (FTMSL)
CASING DEPTH (FT) 25
CASING DIAMETER (IN) 2 in
CASING MATERIAL PVC

FILTER PACK LENGTH (FT) 17
SCREEN BEGIN. DEPTH (FT) 10
SCREEN LENGTH (FT) 15
SCREEN SLOT SIZE (IN) .02 in

REMARKS



WELL TYPE CLASSIFICATIONS (WTCCODE)
- MNW - MONITORING WELL
- PRW - PRODUCTION WELL
- TST - TEST WELL
- WSW - WATER SUPPLY WELL

CASING MATERIAL (CMACODE)
- ABS - ABS
- BRK - BRICK
- CBS - CARBON STEEL
- CNC - CONCRETE
- COP - COPPER
- FBG - FIBERGLASS
- GLS - GALVANIZED STEEL
- WRI - WROUGHT IRON
- SLS - STAINLESS STEEL
- LCS - LOW CARBON STEEL
- M - OTHER METAL
- TFL - TEFLON
- PLY - POLYPROPYLENE
- PVC - PVC
- RST - ROCK OR STONE
- STL - STEEL
- TIL - TILE
- COS - COATED STEEL
- WD - WOOD

ZONE OF COMPLETION (GZCCODE)
- A - AQUIFER
- C - CONFINING LAYER

WELL COMPLETION METHODS: (WCMCODE)
- C - POROUS CONCRETE
- GP - GRAVEL PACK W/PERF.
- GS - GRAVEL PACK W/SCREE
- H - HORIZONTAL GALLERY
- OE - OPEN END
- P - PERFORATED OR SLOTTE
- S - SCREEN
- SP - SAND POINT
- W - WALLED OR SHORED
- OP - OPEN

BOREHOLE LOG (SOIL)

INSTALLATION ID ELM (0687) LOCATION ID 079 (SPS-08)
LOCATION TYPE BH LOCATION PROXIMITY I
COORDINATES (FT): NORTH _____ EAST _____
SURFACE ELEVATION (FTMSL) ~240 ft
DRILLER CODE _____ CONSTRUCTION METHOD HS
DATE STARTED 7 July 88 DATE COMPLETED 7 July 88
BOREHOLE DEPTH (FT.) 26.5 BOREHOLE DIAM. (IN) 8 in

GROUNDWATER LEVELS		
DATE	TIME	DEPTH (FT)
7 July 88	1515	19.5
7 July 88	1540	22.5
8 July 88	0800	13.5

LOCATION DESCRIPTION
N of POL Loop
25 ft S. of buried cable High voltage

MAP REFERENCE ID _____ LOCATION CROSS REFERENCE _____

LITHOLOGIC LOG LOGGER CODE _____

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
1									ML	0-7 ft: brown silt with
3										trace SAND dense
5	↓	↓		U			N	N		stiff
7									SP	7-13 ft: brown fine sand
9										moist dense
1415 11	↓	↓	↓	U	079/0001		N	N		
13										
RCJ not retained 15	↓	↓	↓	U					SM	13-19 ft: brown silty fine
17										sand with trace gravel
19										very moist very dense
1505 21	↓	↓	↓	U	079/0002		N	N	SP	19-22.5 ft: gray fine sand (heaves)
23										saturated, loose
1530 25	↓	↓		U			N	N	ML	22.5-26.5 ft: gray sandy silt
27										with some gravel
29										T.D @ 26.5 ft
										2 in I.D monitoring well installed

LOCATION PROXIMITY (LPRCODE)
I - WITHIN INSTALLATION O - OUTSIDE INSTALLATION

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

CONSTRUCTION METHODS (CMCCODE)
- AR - AIR ROTARY
- B - BORED OR AUGERED
- C - CABLE-TOOL
- D - DUG
- HS - HOLLOW STEM AUGER
- J - JETTED
- P - AIR-PERCUSSION
- RM - REVERSE ROTARY, MUD
- T - TRENCHING
- V - DRIVEN
- W - DRIVE AND WASH

SAMPLE METHODS (SSMCODE)
- A - AUGER CUTTINGS
- S - 2" O.D. 1.38" I.D. DRIVE SAMPLE
- U - 3" O.D. 2.42" I.D. TUBE SAMPLE
- T - 3" O.D. THIN-WALLED SHELBY TUBE

WELL COMPLETION INFORMATION

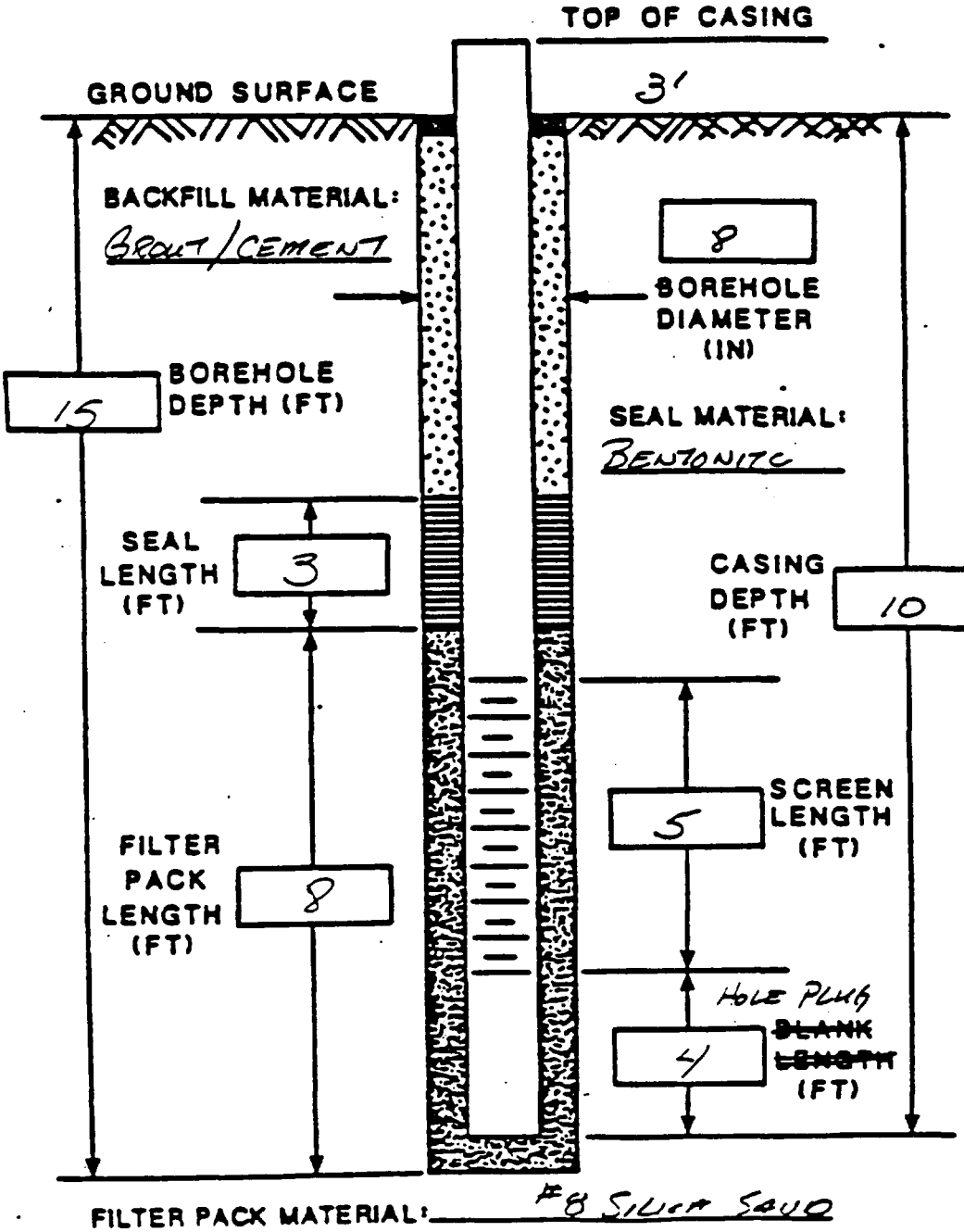
INSTALLATION ID ELMENDORF AFB
LOCATION ID SPS-10 (081)
WELL OWNER
WELL TYPE CLASS. MNW
FORMATION OF COMPLETION CLAY

LOCATION TYPE WL
INSTALLATION DATE 7/14/93
INSTALLER B&V
WELL COMPLETION METHOD S
ZONE OF COMPLETION A-5

SEAL END DEPTH (FT)
MEAS. POINT ELEV. (FTMSL)
CASING DEPTH (FT) 10
CASING DIAMETER (IN) 2
CASING MATERIAL PVC

FILTER PACK LENGTH (FT) 8
SCREEN BEGIN. DEPTH (FT) 10
SCREEN LENGTH (FT) 5
SCREEN SLOT SIZE (IN) .010

REMARKS



WELL TYPE CLASSIFICATIONS (WTCODE)
- MNW - MONITORING WELL
- PRW - PRODUCTION WELL
- TST - TEST WELL
- WSW - WATER SUPPLY WELL

CASING MATERIAL (CMACODE)
- ABS - ABS
- BRK - BRICK
- CBS - CARBON STEEL
- CNC - CONCRETE
- COP - COPPER
- FBG - FIBERGLASS
- GLS - GALVANIZED STEEL
- WRI - WROUGHT IRON
- SLS - STAINLESS STEEL
- LCS - LOW CARBON STEEL
- M - OTHER METAL
- TFL - TEFLON
- PLY - POLYPROPYLENE
- PVC - PVC
- RST - ROCK OR STONE
- STL - STEEL
- TIL - TILE
- COS - COATED STEEL
- WD - WOOD

ZONE OF COMPLETION (GZCODE)
- A - AQUIFER
- C - CONFINING LAYER

WELL COMPLETION METHODS: (WCMCODE)
- C - POROUS CONCRETE
- GP - GRAVEL PACK W/PERF.
- GS - GRAVEL PACK W/SC
- H - HORIZONTAL GALLER.
- OE - OPEN END
- P - PERFORATED OR SLOTTE
- S - SCREEN
- SP - SAND POINT
- W - WALLED OR SHORED
- OP - OPEN

BOREHOLE LOG (SOIL)

PAGE 1 OF 1

INSTALLATION ID ELMENDORF AFB — LOCATION ID SPS-10 (001)
LOCATION TYPE BH — LOCATION PROXIMITY I
COORDINATES (FT): NORTH _____ EAST _____
SURFACE ELEVATION (FTMSL) _____
DRILLER CODE DISC — CONSTRUCTION METHOD HS
DATE STARTED 7-14-87 — DATE COMPLETED 7-14-87
BOREHOLE DEPTH (FT.) 15.4 — BOREHOLE DIAM. (IN) 8 IN

GROUNDWATER LEVELS		
DATE	TIME	DEPTH (FT)

LOCATION DESCRIPTION

MAP REFERENCE ID _____ LOCATION CROSS REFERENCE _____

LITHOLOGIC LOG

LOGGER CODE _____

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
2		10"		4			720ppm	YES		CLAY - SOFT, MOD. BROWN TO GREY, SILTY W/ORGANIC MATTER & GRAVEL
4		16		4	001 0001		100ppm	YES	CL	CLAY - SOFT, GREY SILTY, SANDY, WET.
6		12"		4	001 0002				SC	SAND - MOD. DENSE, GRAY, SOFT CLAY, SILTY W/GRAVELS.
8							164ppm	yes		7.5' GRAVEL UP TO 40% MIXTURE
10										
12		10"		4			3ppm		CL	CLAY - STIFF TO SOFT, GRAY SANDY @ TOP, SILTY @ BOTTOM
14		12"		4			0ppm			CLAY - ST. TO F. SOFT, GRAY SANDY SILTY - FINE GRAVELS
16							2ppm			
										T.D. 15.4'. WELL SET @ 15.4'
										WATER LEVEL 5.4' TO 7.5'.

LOCATION PROXIMITY (LPRCODE)
I - WITHIN INSTALLATION O - OUTSIDE INSTALLATION

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

CONSTRUCTION METHODS (CMCCODE)
- AR - AIR ROTARY
- B - BORED OR AUGERED
- C - CABLE-TOOL
- D - DUG
- HS - HOLLOW STEM AUGER
- J - JETTED
- P - AIR-PERCUSSION
- RM - REVERSE ROTARY, MUD
- T - TRENCHING
- V - DRIVEN
- W - DRIVE AND WASH

SAMPLE METHODS (SSMCODE)
- A - AUGER CUTTINGS
- S - 2" O.D. 1.38" I.D. DRIVE SAMPLE
- U - 3" O.D. 2.42" I.D. TUBE SAMPLE
- T - 3" O.D. THIN-WALLED SHELBY TUBE

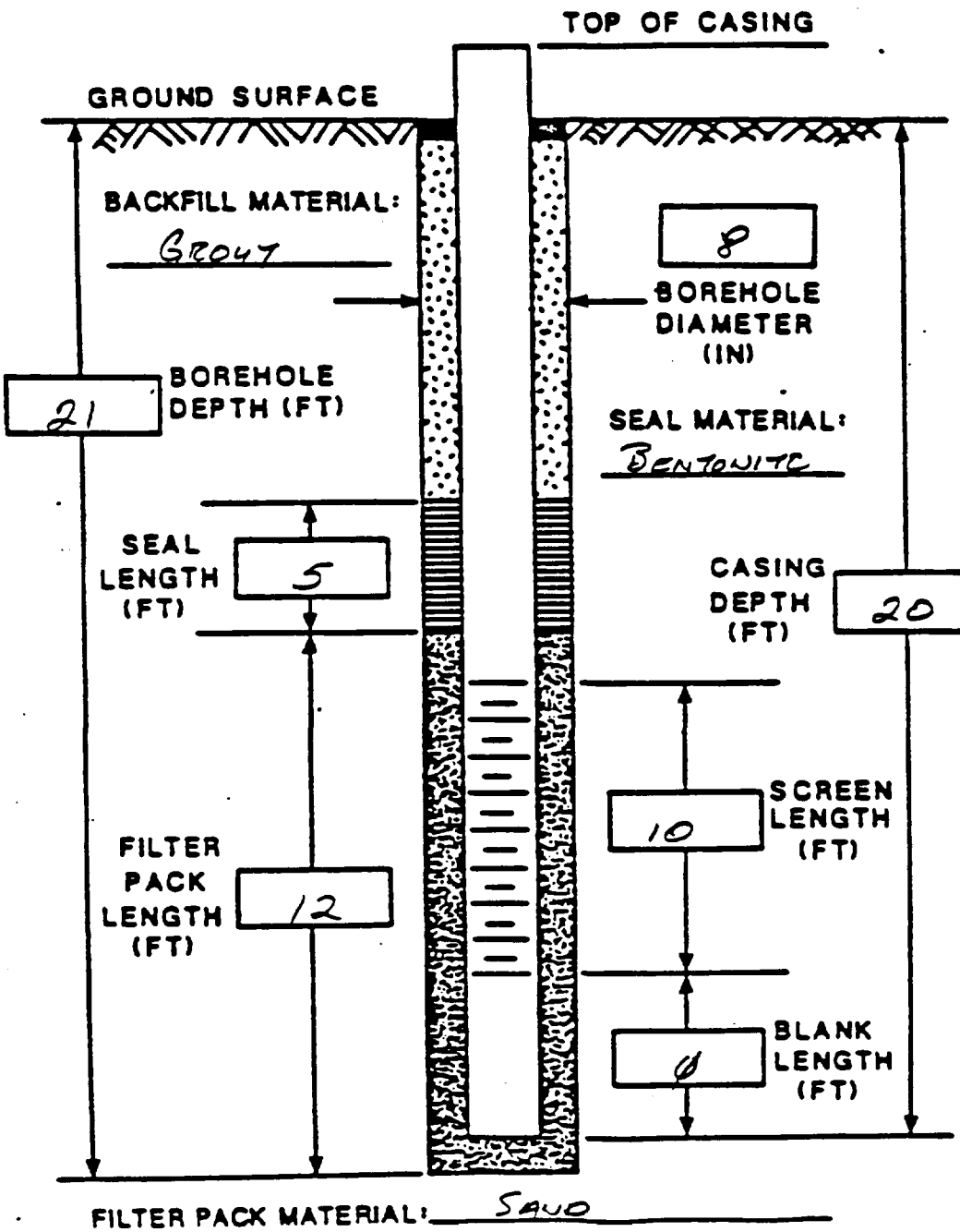
WELL COMPLETION INFORMATION

INSTALLATION ID Elmendorf AFB
LOCATION ID SB-15 (067)
WELL OWNER
WELL TYPE CLASS. MNW
FORMATION OF COMPLETION Sand

LOCATION TYPE WL
INSTALLATION DATE 7/12/89
INSTALLER BIV
WELL COMPLETION METHOD GS
ZONE OF COMPLETION 20-10

SEAL END DEPTH (FT) 8'
MEAS. POINT ELEV. (FT MSL)
CASING DEPTH (FT) 20
CASING DIAMETER (IN) 2
CASING MATERIAL PVC
REMARKS

FILTER PACK LENGTH (FT) 12
SCREEN BEGIN. DEPTH (FT) 20
SCREEN LENGTH (FT) 10
SCREEN SLOT SIZE (IN) .01



WELL TYPE CLASSIFICATIONS (WTCODE)
- MNW - MONITORING WELL
- PRW - PRODUCTION WELL
- TST - TEST WELL
- WSW - WATER SUPPLY WELL

CASING MATERIAL (CMACODE)
- ABS - ABS
- BRK - BRICK
- CBS - CARBON STEEL
- CNC - CONCRETE
- COP - COPPER
- FBG - FIBERGLASS
- GLS - GALVANIZED STEEL
- WRI - WROUGHT IRON
- SLS - STAINLESS STEEL
- LCS - LOW CARBON STEEL
- M - OTHER METAL
- TFL - TEFLON
- PLY - POLYPROPYLENE
- PVC - PVC
- RST - ROCK OR STONE
- STL - STEEL
- TIL - TILE
- COS - COATED STEEL
- WD - WOOD

ZONE OF COMPLETION (GZCODE)
- A - AQUIFER
- C - CONFINING LAYER

WELL COMPLETION METHODS: (WCMCODE)
- C - POROUS CONCRETE
- GP - GRAVEL PACK W/PERF.
- GS - GRAVEL PACK W/SCI
- H - HORIZONTAL GALLERY
- OE - OPEN END
- P - PERFORATED OR SLOTTE
- S - SCREEN
- SP - SAND POINT
- W - WALLED OR SHORED
- OP - OPEN

BOREHOLE LOG (SOIL)

INSTALLATION ID ELMENDORF AFB — LOCATION ID SPSA 15 (067)
LOCATION TYPE BH — LOCATION PROXIMITY I
COORDINATES (FT): NORTH _____ EAST _____
SURFACE ELEVATION (FTMSL) _____
DRILLER CODE DISC. — CONSTRUCTION METHOD HS
DATE STARTED 7/11/88 — DATE COMPLETED 7-12-88
BOREHOLE DEPTH (FT.) 21.5 ft — BOREHOLE DIAM. (IN) 8 in

GROUNDWATER LEVELS		
DATE	TIME	DEPTH (FT)

LOCATION DESCRIPTION

MAP REFERENCE ID _____ LOCATION CROSS REFERENCE _____

LITHOLOGIC LOG — LOGGER CODE _____

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
2							2ppm	YES	FILL	LARGE ROCKS & GRAVEL
4									CL	CLAY - SOFT, MED. BROWN, SILTY W/ GRAVELS OF VARYING SIZES.
6	↕	15"		U	067 0001		100ppm	YES	SW	SAND - LOOSE, OLIVE-GRAY FINE GRAINED, WELL SORTED WITH ROUNDED
8									SC	V. CLAYEY, & SILTY, MOIST,
10										
12	↕	18"		U	067 0002		200ppm	YES	SC	SAND - MED. DENSE, MED. OLIVE-BROWN, FINE GRAINED WELL SORTED, WITH
14							2ppm 15ppm	YES YES	SC	ROUNDED, V. CLAYEY, VERY WET. SAND - DENSE, OLIVE-BROWN, V. FINE GRAINED, V. CLAYEY, MOIST
16	↕	16"		U	067 0003		20ppm	YES	SC	SAND - MED. DENSE, OLIVE-BROWN, V. FINE GRAINED, V. CLAYEY, SILTY, W/SOME
18										GRAVELS, V. WET
20									SC	
22	↕	16"		U	067 0004		15ppm	YES	CH	CLAY - V. STIFF, OLIVE-GRAY, HIGH PLASTIC
										BOOTLEGGER CLAY TO 21.5 ft
										WATER LENSE - 11 ft TO 12.5 ft

LOCATION PROXIMITY (LPRCODE)
I - WITHIN INSTALLATION O - OUTSIDE INSTALLATION

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

CONSTRUCTION METHODS (CMCCODE)
- AR - AIR ROTARY
- B - BORED OR AUGERED
- C - CABLE-TOOL
- D - DUG
- HS - HOLLOW STEM AUGER
- J - JETTED
- P - AIR-PERCUSSION
- RM - REVERSE ROTARY, MUD
- T - TRENCHING
- V - DRIVEN
- W - DRIVE AND WASH

SAMPLE METHODS (SSMCODE)
- A - AUGER CUTTINGS
- S - 3" O.D. 1.38" I.D. DRIVE SAMPLE
- U - 3" O.D. 2.42" I.D. TUBE SAMPLE
- T - 3" O.D. THIN-WALLED SHELBY TUBE

WELL COMPLETION INFORMATION

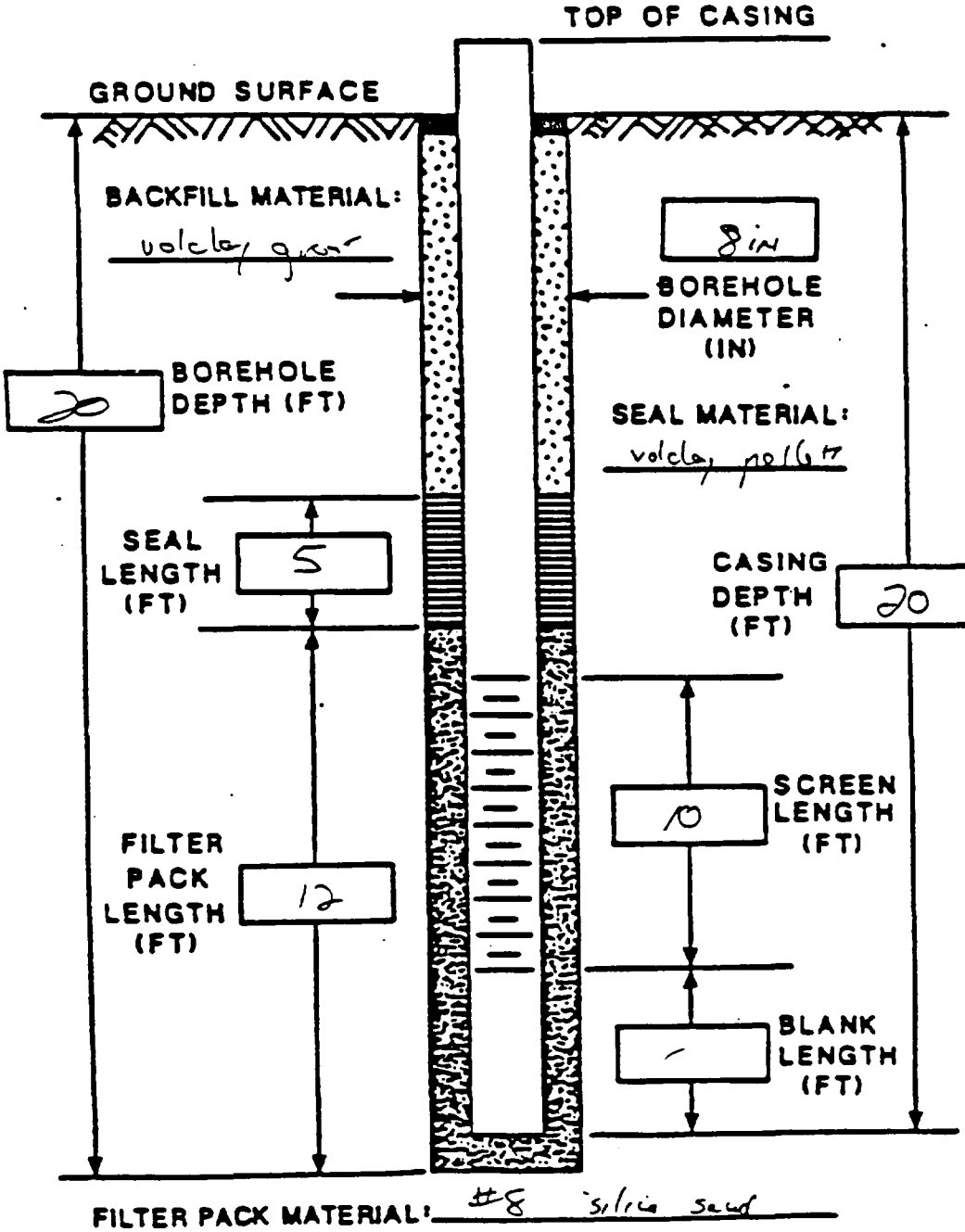
INSTALLATION ID ELM 0687
LOCATION ID SPSA-16 (068)
WELL OWNER USAF
WELL TYPE CLASS. MNW
FORMATION OF COMPLETION SAND

LOCATION TYPE WL
INSTALLATION DATE 11 July 88
INSTALLER WCC
WELL COMPLETION METHOD GS
ZONE OF COMPLETION A

SEAL END DEPTH (FT) _____
MEAS. POINT ELEV. (FTMSL) _____
CASING DEPTH (FT) 20
CASING DIAMETER (IN) 2 in
CASING MATERIAL PVC

FILTER PACK LENGTH (FT) 12
SCREEN BEGIN. DEPTH (FT) 10
SCREEN LENGTH (FT) 10
SCREEN SLOT SIZE (IN) .02 in

REMARKS _____



WELL TYPE CLASSIFICATIONS (WTCODE)
- MNW - MONITORING WELL
- PRW - PRODUCTION WELL
- TST - TEST WELL
- WSW - WATER SUPPLY WELL

CASING MATERIAL (CMACODE)
- ABS - ABS
- BRK - BRICK
- CBS - CARBON STEEL
- CNC - CONCRETE
- COP - COPPER
- FBG - FIBERGLASS
- GLS - GALVANIZED STEEL
- WRI - WROUGHT IRON
- SLS - STAINLESS STEEL
- LCS - LOW CARBON STEEL
- M - OTHER METAL
- TFL - TEFLON
- PLY - POLYPROPYLENE
- PVC - PVC
- RST - ROCK OR STONE
- STL - STEEL
- TIL - TILE
- COS - COATED STEEL
- WD - WOOD

ZONE OF COMPLETION (GZCCODE)
- A - AQUIFER
- C - CONFINING LAYER

WELL COMPLETION METHODS: (WCMCODE)
- C - POROUS CONCRETE
- GP - GRAVEL PACK W/PERF.
- GS - GRAVEL PACK W/SCREE
- H - HORIZONTAL GALLERY
- OE - OPEN END
- P - PERFORATED OR SLOTTE
- S - SCREEN
- SP - SAND POINT
- W - WALLED OR SHORED
- OP - OPEN

BOREHOLE LOG (SOIL)

INSTALLATION ID Elm (0687) LOCATION ID SPSA-16 (068)
LOCATION TYPE BH LOCATION PROXIMITY I
COORDINATES (FT): NORTH ____ EAST ____
SURFACE ELEVATION (FTMSL) ____
DRILLER CODE ____ CONSTRUCTION METHOD HS
DATE STARTED 11 July 88 DATE COMPLETED 11 July 88
BOREHOLE DEPTH (FT.) 20 ft BOREHOLE DIAM. (IN) 8 in

GROUNDWATER LEVELS		
DATE	TIME	DEPTH (FT)
11 July	0930	15 ft (ws)
11 July	1410	16.3 ft (toc)

LOCATION DESCRIPTION
South end of SPS tank farm between loop Road and POL dist access road. Above oil-water separator about 30 ft west of main line valve pit

MAP REFERENCE ID ____ LOCATION CROSS REFERENCE ____

LITHOLOGIC LOG LOGGER CODE ____

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
1									ML	0 - 14 ft : Brown
3										sandy silt with some
5	↓	↓	↓	U	068/0007		N	N		gravel damp dense
7										
9										
11	↓	↓	↓	U	068/0002		1	N		
13										
15	↓	↓	↓	U	068/0003		100	Y		14-20 ft : gray gravelly sa
17										wet
19										
21										T.D. 20 ft
										Installed 2 in ID PVC
										monitoring well screened
										from 10-20 ft.
										CASING STICKUP = 2.3 ft

LOCATION PROXIMITY (LPRCODE)
I - WITHIN INSTALLATION O - OUTSIDE INSTALLATION

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

CONSTRUCTION METHODS (CMCCODE)
- AR - AIR ROTARY
- B - BORED OR AUGERED
- C - CABLE-TOOL
- D - DUG
- HS - HOLLOW STEM AUGER
- J - JETTED
- P - AIR-PERCUSSION
- RM - REVERSE ROTARY, MUD
- T - TRENCHING
- V - DRIVEN
- W - DRIVE AND WASH

SAMPLE METHODS (SSMCODE)
- A - AUGER CUTTINGS
- S - 2" O.D. 1.38" I.D. DRIVE SAMPLE
- U - 3" O.D. 2.42" I.D. TUBE SAMPLE
- T - 3" O.D. THIN-WALLED SHELBY TUBE

WELL COMPLETION INFORMATION

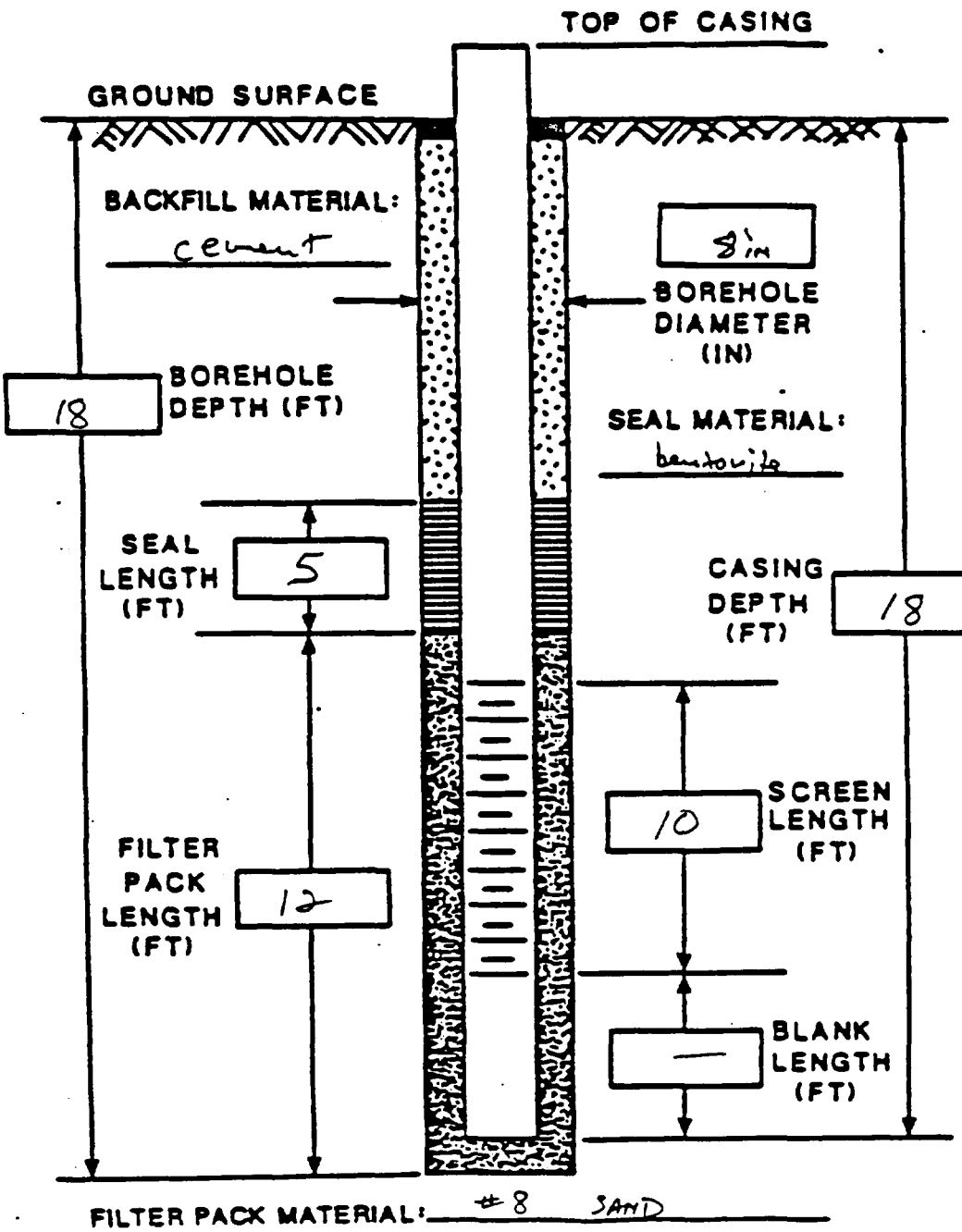
INSTALLATION ID ELm 0687
LOCATION ID SPSA-18 (070)
WELL OWNER USAF
WELL TYPE CLASS. mw
FORMATION OF COMPLETION Sandy silt

LOCATION TYPE WL
INSTALLATION DATE 11 July 88
INSTALLER R. Dugan
WELL COMPLETION METHOD GS
ZONE OF COMPLETION A

SEAL END DEPTH (FT) 6 ft
MEAS. POINT ELEV. (FTMSL) 230 ft
CASING DEPTH (FT) 18 ft
CASING DIAMETER (IN) 2 in
CASING MATERIAL PVC

FILTER PACK LENGTH (FT) 12
SCREEN BEGIN. DEPTH (FT) 8 ft
SCREEN LENGTH (FT) 10 ft
SCREEN SLOT SIZE (IN) .02 in

REMARKS casing stickup 2.5 ft above ground surface



WELL TYPE CLASSIFICATIONS (WTCODE)
- MNW - MONITORING WELL
- PRW - PRODUCTION WELL
- TST - TEST WELL
- WSW - WATER SUPPLY WELL

CASING MATERIAL (CMACODE)
- ABS - ABS
- BRK - BRICK
- CBS - CARBON STEEL
- CNC - CONCRETE
- COP - COPPER
- FBG - FIBERGLASS
- GLS - GALVANIZED STEEL
- WRI - WROUGHT IRON
- SLS - STAINLESS STEEL
- LCS - LOW CARBON STEEL
- M - OTHER METAL
- TFL - TEFLON
- PLY - POLYPROPYLENE
- PVC - PVC
- RST - ROCK OR STONE
- STL - STEEL
- TIL - TILE
- COS - COATED STEEL
- WD - WOOD

ZONE OF COMPLETION (GZCODE)
- A - AQUIFER
- C - CONFINING LAYER

WELL COMPLETION METHODS: (WCMCODE)
- C - POROUS CONCRETE
- GP - GRAVEL PACK W/PERF.
- GS - GRAVEL PACK W/SCR
- H - HORIZONTAL GALLER
- OE - OPEN END
- P - PERFORATED OR SLOTTE
- S - SCREEN
- SP - SAND POINT
- W - WALLED OR SHORED
- OP - OPEN

BOREHOLE LOG (SOIL)

INSTALLATION ID ELM (0687) LOCATION ID SPSA-18 (070)
LOCATION TYPE BH LOCATION PROXIMITY I
COORDINATES (FT): NORTH _____ EAST _____
SURFACE ELEVATION (FTMSL) 250 ft
DRILLER CODE _____ CONSTRUCTION METHOD HS
DATE STARTED 11 July 88 DATE COMPLETED 11 July 88
BOREHOLE DEPTH (FT.) 18 ft BOREHOLE DIAM. (IN) 8 in

GROUNDWATER LEVELS		
DATE	TIME	DEPTH (FT)
11 July 88	1600	19.5 roc

LOCATION DESCRIPTION
10 ft N of dirt cross road (Iowa) to SPS area, 150 ft east of SPS-17 (069)

MAP REFERENCE ID _____ LOCATION CROSS REFERENCE _____

LITHOLOGIC LOG LOGGER CODE _____

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
1 -									ML	0 - 7 ft : Gray-brown
3 -										sandy silt w/ trace
1210 5 -	↓	↓	↓	U	070/0001		N	N		gravel, trace clay, moi.
7 -									ML	7 - 13 ft : brown sandy
9 -										silt, moist, stiff
1215 11 -	↓	↓	↓	U	070/0002		3	N		12 ft : moist layer
13 -									ML	13 - 18 ft : gray sandy si.
1230 15 -	↓	↓	↓	U	070/0003		N	N		with some clay
17 -										
19 -										T.D. @ 18 ft
20 -										Installed 2 in ID PVC
										mon. well screened
										from 13.0 - 8.0 ft
										casing stickup = 2.5 ft above gr

LOCATION PROXIMITY (LPRCODE)
I - WITHIN INSTALLATION O - OUTSIDE INSTALLATION

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

CONSTRUCTION METHODS (CMCCODE)
- AR - AIR ROTARY
- B - BORED OR AUGERED
- C - CABLE-TOOL
- D - DUG
- HS - HOLLOW STEM AUGER
- J - JETTED
- P - AIR-PERCUSSION
- RM - REVERSE ROTARY, MUD
- T - TRENCHING
- V - DRIVEN
- W - DRIVE AND WASH

SAMPLE METHODS (SSMCODE)
- A - AUGER CUTTINGS
- S - 2" O.D. 1.38" I.D. DRIVE SAMPLE
- U - 3" O.D. 2.42" I.D. TUBE SAMPLE
- T - 3" O.D. THIN-WALLED SHELBY TUBE

WELL COMPLETION INFORMATION

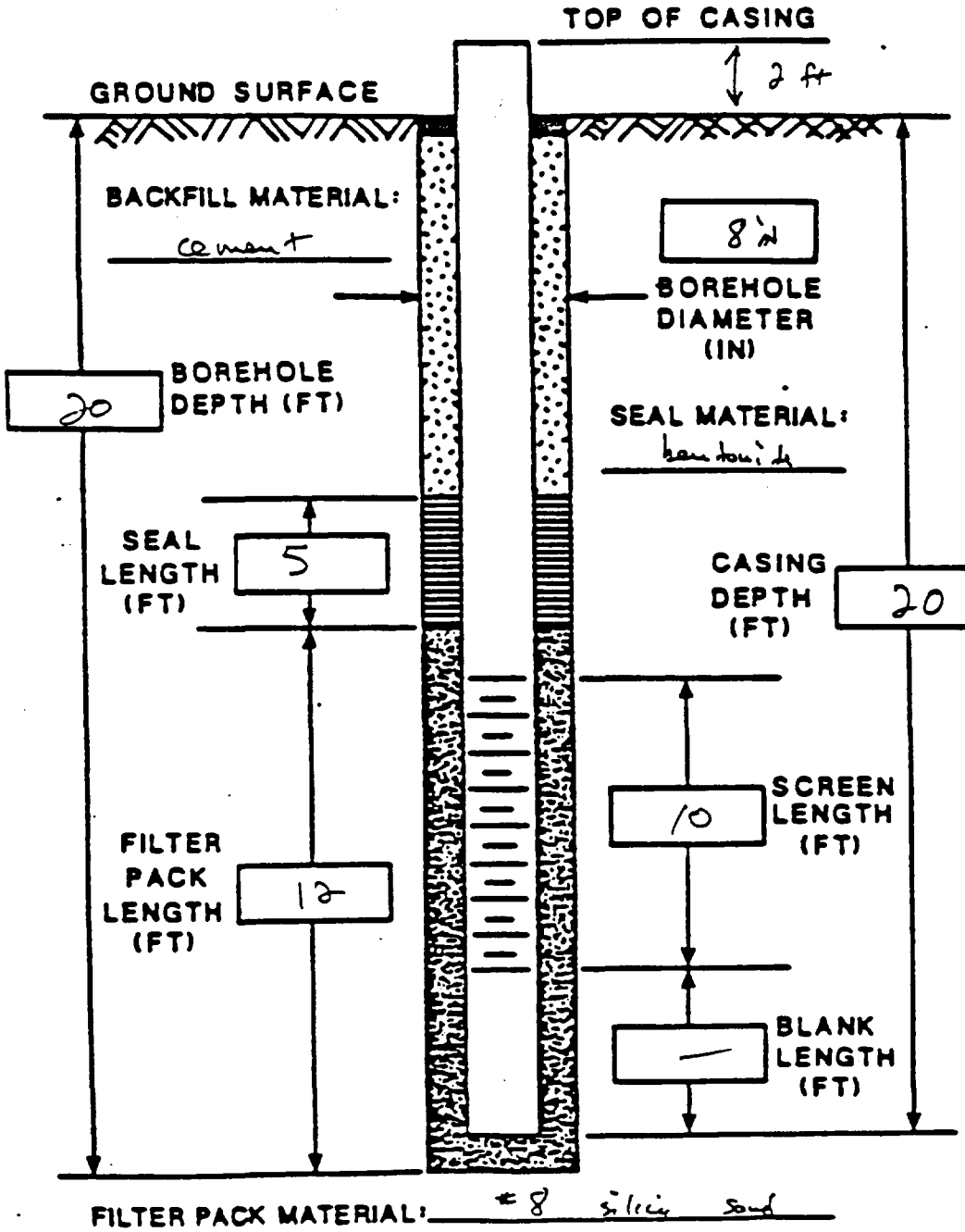
INSTALLATION ID ECM 0687
LOCATION ID * SPSA - 19 (OT5)
WELL OWNER USAF
WELL TYPE CLASS MW
FORMATION OF COMPLETION Sandy gravel

LOCATION TYPE WL
INSTALLATION DATE 11 July 88
INSTALLER RGD
WELL COMPLETION METHOD GS
ZONE OF COMPLETION A

SEAL END DEPTH (FT) 8 ft
MEAS. POINT ELEV. (FTMSL) 225 ft
CASING DEPTH (FT) 20 ft
CASING DIAMETER (IN) 2 in
CASING MATERIAL PVC

FILTER PACK LENGTH (FT) 12
SCREEN BEGIN. DEPTH (FT) 10
SCREEN LENGTH (FT) 10
SCREEN SLOT SIZE (IN) .02 in

REMARKS 2 ft stickup above ground surface



WELL TYPE CLASSIFICATIONS (WTCODE)
- MNW - MONITORING WELL
- PRW - PRODUCTION WELL
- TST - TEST WELL
- WSW - WATER SUPPLY WELL

CASING MATERIAL (CMACODE)
- ABS - ABS
- BRK - BRICK
- CBS - CARBON STEEL
- CNC - CONCRETE
- COP - COPPER
- FBG - FIBERGLASS
- GLS - GALVANIZED STEEL
- WRI - WROUGHT IRON
- SLS - STAINLESS STEEL
- LCS - LOW CARBON STEEL
- M - OTHER METAL
- TFL - TEFLON
- PLY - POLYPROPYLENE
- PVC - PVC
- RST - ROCK OR STONE
- STL - STEEL
- TIL - TILE
- COS - COATED STEEL
- WD - WOOD

ZONE OF COMPLETION (GZCCODE)
- A - AQUIFER
- C - CONFINING LAYER

WELL COMPLETION METHODS: (WCMCODE)
- C - POROUS CONCRETE
- GP - GRAVEL PACK W/PERF.
- GS - GRAVEL PACK W/SCREEN
- H - HORIZONTAL GALLERY
- OE - OPEN END
- P - PERFORATED OR SLOTTE
- S - SCREEN
- SP - SAND POINT
- W - WALLED OR SHORED
- OP - OPEN

BOREHOLE LOG (SOIL)

PAGE 1 OF 1

INSTALLATION ID ECM (0687) LOCATION ID SPSA-19 (071)
LOCATION TYPE BH LOCATION PROXIMITY I
COORDINATES (FT): NORTH _____ EAST _____
SURFACE ELEVATION (FTMSL) ~250 ft
DRILLER CODE _____ CONSTRUCTION METHOD HS
DATE STARTED 11 July 88 DATE COMPLETED 11 July 88
BOREHOLE DEPTH (FT.) 20 ft BOREHOLE DIAM. (IN) 8 IN

GROUNDWATER LEVELS		
DATE	TIME	DEPTH (FT)
12 July 88	1030	15.8 (TOC)

Casing Stickup (TOC) = 2 ft above ground surface

LOCATION DESCRIPTION
150 ft East of SPS-19 on opposite side of road.

MAP REFERENCE ID _____ LOCATION CROSS REFERENCE _____

LITHOLOGIC LOG LOGGER CODE _____

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
1									GW	0 - 13 ft: Brown sandy
3										gravel dense, damp
1535 5	↓	↓	↓	U	071/0001		N	N		occasional cobbles
7										
9										
1550 11	↓	↓	↓	U	071/0002		N	N		
13										13 ft: large cobble
1615 15	↓	↓	↓	U	071/0003		14	N	GW	13 - 17 ft: Gray sandy gravel
17										wet very dense
19									CL	17-20 ft: Gray SILTY CLAY, very moist very stiff
1630 21										T.D @ 20 ft

LOCATION PROXIMITY (LPRCODE)
I - WITHIN INSTALLATION O - OUTSIDE INSTALLATION

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

CONSTRUCTION METHODS (CMCCODE)
AR - AIR ROTARY
B - BORED OR AUGERED
C - CABLE-TOOL
D - DUG
HS - HOLLOW STEM AUGER
J - JETTED
P - AIR-PERCUSSION
RM - REVERSE ROTARY, MUD
T - TRENCHING
V - DRIVEN
W - DRIVE AND WASH

SAMPLE METHODS (SSMCODE)
A - AUGER CUTTINGS
S - 2" O.D. 1.38" I.D. DRIVE SAMPLE
U - 3" O.D. 2.42" I.D. TUBE SAMPLE
T - 3" O.D. THIN-WALLED SHELBY TUBE

WELL COMPLETION INFORMATION

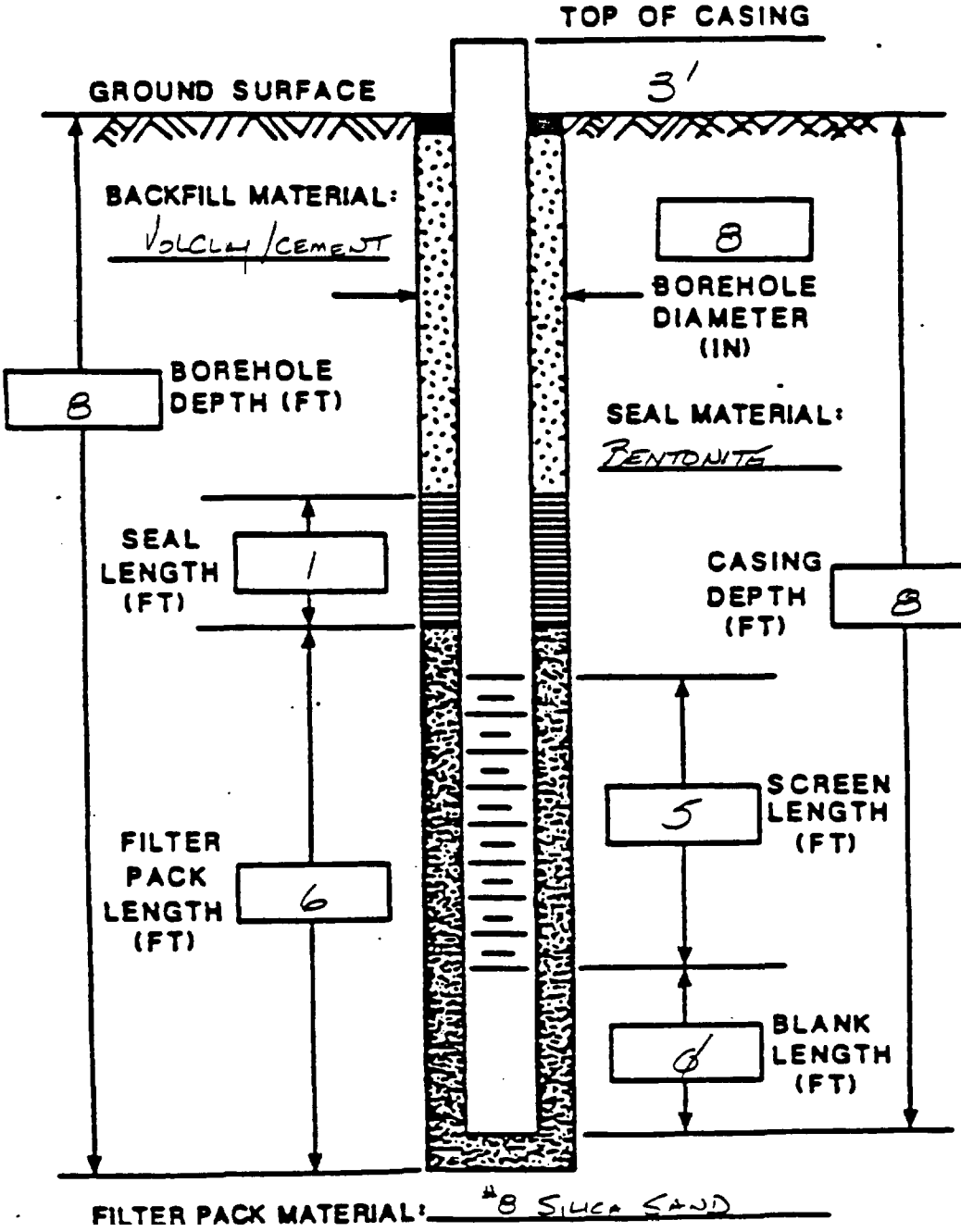
INSTALLATION ID Elmendorf AFB
LOCATION ID SPS-22 (126)
WELL OWNER
WELL TYPE CLASS. MNW
FORMATION OF COMPLETION Clay/Silt

LOCATION TYPE WL
INSTALLATION DATE 8/23/88
INSTALLER BEV
WELL COMPLETION METHOD S
ZONE OF COMPLETION A

SEAL END DEPTH (FT)
MEAS. POINT ELEV. (FTMSL)
CASING DEPTH (FT) 8
CASING DIAMETER (IN) 2
CASING MATERIAL PVC

FILTER PACK LENGTH (FT) 6
SCREEN BEGIN. DEPTH (FT) 8
SCREEN LENGTH (FT) 5
SCREEN SLOT SIZE (IN) .010

REMARKS



WELL TYPE CLASSIFICATIONS (WTCODE)
- MNW - MONITORING WELL
- PRW - PRODUCTION WELL
- TST - TEST WELL
- WSW - WATER SUPPLY WELL

CASING MATERIAL (CMACODE)
- ABS - ABS
- BRK - BRICK
- CBS - CARBON STEEL
- CNC - CONCRETE
- COP - COPPER
- FBG - FIBERGLASS
- GLS - GALVANIZED STEEL
- WRI - WROUGHT IRON
- SLS - STAINLESS STEEL
- LCS - LOW CARBON STEEL
- M - OTHER METAL
- TFL - TEFLON
- PLY - POLYPROPYLENE
- PVC - PVC
- RST - ROCK OR STONE
- STL - STEEL
- TIL - TILE
- COS - COATED STEEL
- WD - WOOD

ZONE OF COMPLETION (GZCCODE)
- A - AQUIFER
- C - CONFINING LAYER

WELL COMPLETION METHODS: (WCMCODE)
- C - POROUS CONCRETE
- GP - GRAVEL PACK W/PERF.
- GS - GRAVEL PACK W/SCREE
- H - HORIZONTAL GALLERY
- OE - OPEN END
- P - PERFORATED OR SLOTTE
- S - SCREEN
- SP - SAND POINT
- W - WALLED OR SHORED
- OP - OPEN

BOREHOLE LOG (SOIL)

INSTALLATION ID Elmendorf AFB LOCATION ID SPS-20
LOCATION TYPE BH LOCATION PROXIMITY I
COORDINATES (FT): NORTH _____ EAST _____
SURFACE ELEVATION (FTMSL) _____
DRILLER CODE DD CONSTRUCTION METHOD HS
DATE STARTED 8/23/88 DATE COMPLETED 8/23/88
BOREHOLE DEPTH (FT.) 8' BOREHOLE DIAM. (IN) 8IN

GROUNDWATER LEVELS		
DATE	TIME	DEPTH (FT)

LOCATION DESCRIPTION

MAP REFERENCE ID _____ LOCATION CROSS REFERENCE _____

LITHOLOGIC LOG LOGGER CODE RL

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE BEHIND	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
1	↕	11"		4	126 0001		1ppm	N		CLAY - SOFT, DK. BROWN, LOW PLASTIC, SL SILTY; W/ORGANIC MATTER.
2	↓								CL	
3										
4										
5										
6	↕	18"		4	126 0002		N	N	PT	PEAT - SOFT, LT. TO MED BROWN, HIGH ORGANIC MATTER CONTENT
7	↓								CL	CLAY - FIRM, GRAY, LOW PLASTIC, WET
8										WEIGHTY. ORGANIC MATTER. (ROOTLESSER)
										T.D. 8ft
										WELL SET AT 8ft.

LOCATION PROXIMITY (LPRCODE)
I - WITHIN INSTALLATION O - OUTSIDE INSTALLATION

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

CONSTRUCTION METHODS (CMCCODE)
- AR - AIR ROTARY
- B - BORED OR AUGERED
- C - CABLE-TOOL
- D - DUG
- HS - HOLLOW STEM AUGER
- J - JETTED
- P - AIR-PERCUSSION
- RM - REVERSE ROTARY, MUD
- T - TRENCHING
- V - DRIVEN
- W - DRIVE AND WASH

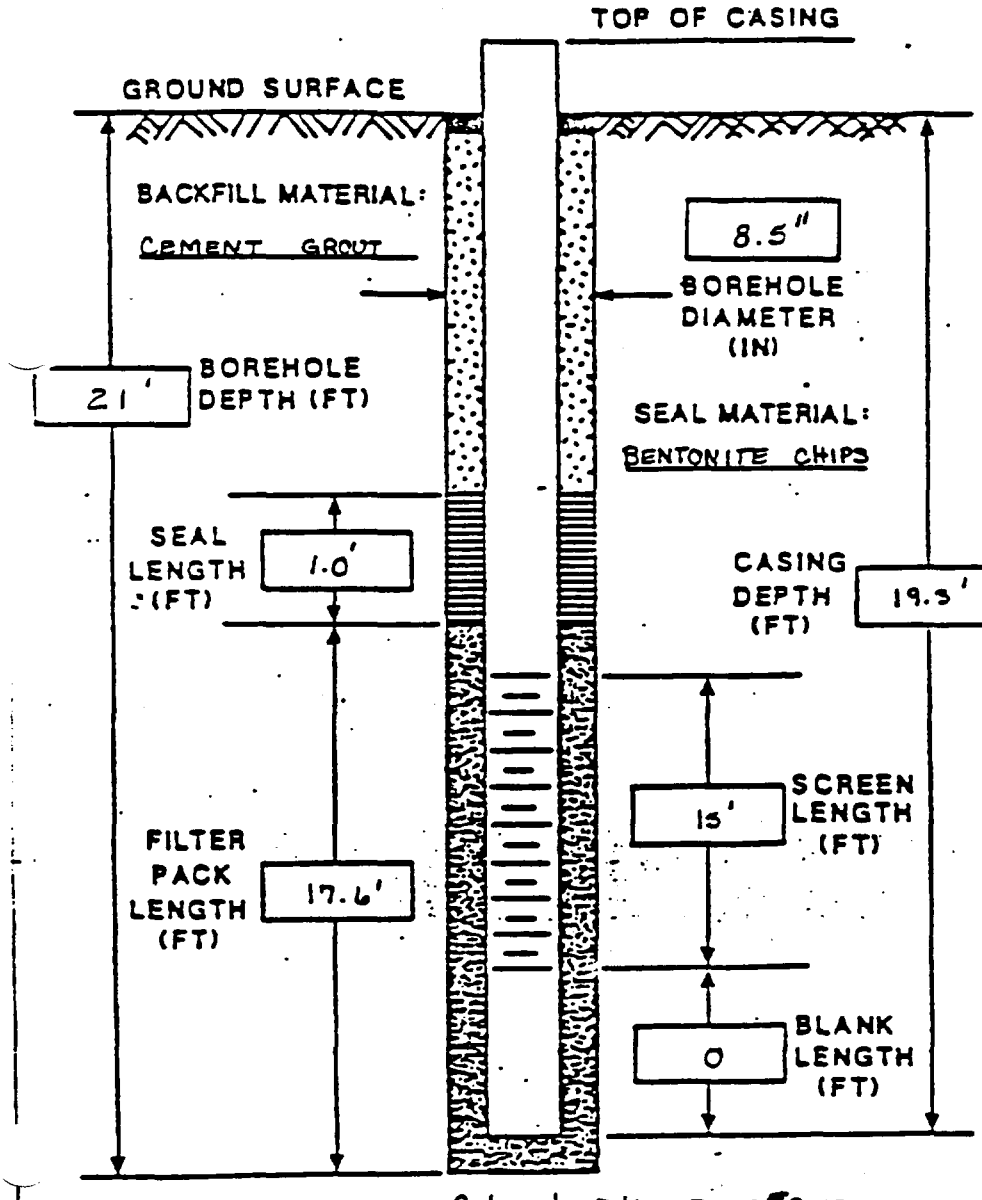
SAMPLE METHODS (SSMCODE)
- A - AUGER CUTTINGS
- S - 2" O.D. 1.38" I.D. DRIVE SAMPLE
- U - 3" O.D. 2.42" I.D. TUBE SAMPLE
- T - 3" O.D. THIN-WALLED SHELBY TUBE

WELL COMPLETION INFORMATION

INSTALLATION ID ELMNF
LOCATION ID SP S/SA-21
WELL OWNER
WELL TYPE CLASS MNW
FORMATION OF COMPLETION Bootlegger Cove Sand, Silt, and Gravel
LOCATION TYPE WL
INSTALLATION DATE 11-6-89
INSTALLER B&V / TY BLACK
WELL COMPLETION METHOD GS
ZONE OF COMPLETION 3.4' - 19.3'

SEAL END DEPTH (FT) 3.3'
MEAS. POINT ELEV. (FTMSL)
CASING DEPTH (FT) 19.3'
CASING DIAMETER (IN) 2"
CASING MATERIAL Schedule 40 PVC
FILTER PACK LENGTH (FT) 17.6'
SCREEN BEGIN. DEPTH (FT) 4.3'
SCREEN LENGTH (FT) 15'
SCREEN SLOT SIZE (IN) .020"

REMARKS 2.6' stickup above ground surface
Boring caved to 19.3' prior to setting PVC
CHECKED/APPROVED: B.W. MEYER



WELL TYPE CLASSIFICATIONS (WTCCODE)
- MNW - MONITORING WELL
- PRW - PRODUCTION WELL
- TST - TEST WELL
- WSW - WATER SUPPLY WELL

CASING MATERIAL (CMACODE)
- ABS - ABS
- BRK - BRICK
- CBS - CARBON STEEL
- CNC - CONCRETE
- COP - COPPER
- FBG - FIBERGLASS
- GLS - GALVANIZED STEEL
- WRI - WROUGHT IRON
- SLS - STAINLESS STEEL
- LCS - LOW CARBON STEEL
- M - OTHER METAL
- TFL - TEFLON
- PLY - POLYPROPYLENE
- PVC - PVC
- RST - ROCK OR STONE
- STL - STEEL
- TIL - TILE
- COS - COATED STEEL
- WD - WOOD

ZONE OF COMPLETION (GZCCODE)
- A - AQUIFER
- C - CONFINING LAYER

WELL COMPLETION METHODS: (WCMCODE)
- C - POROUS CONCRETE
- GP - GRAVEL PACK W/PERF.
- GS - GRAVEL PACK W/SCREE
- H - HORIZONTAL GALLERY
- OE - OPEN END
- P - PERFORATED OR SLOTTE
- S - SCREEN
- SP - SAND POINT
- W - WALLED OR SHORED
- OP - OPEN

BOREHOLE LOG (SOIL)

INSTALLATION ID E/MNF — LOCATION ID SP 5/5A-21
LOCATION TYPE BH — LOCATION PROXIMITY I
COORDINATES (FT): NORTH ____ EAST ____
SURFACE ELEVATION (FTMSL) ____
DRILLER CODE Disc. — CONSTRUCTION METHOD HS
DATE STARTED 11/6/89 — DATE COMPLETED 11/6/89
BOREHOLE DEPTH (FT.) 21' — BOREHOLE DIAM. (IN) 8.5"

GROUNDWATER LEVELS		
DATE	TIME	DEPTH (FT)
11/6/89	1096	3.5' during drilling

LOCATION DESCRIPTION
Gently sloping surface located 137' South of Loop Road and 660' west of culvert

MAP REFERENCE ID ____ LOCATION CROSS REFERENCE ____

LITHOLOGIC LOG

LOGGER CODE J.Y. Black
Checked/Approved: E.W. Meier

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM (OVA)	ODOR	CLASS/ CODE	DEPTH	VISUAL DESCRIPTION
1				A							Silty GRAVEL, brown, maximum size 2", subrounded, moist
3											
5	↓	10.5'	Yes	U	3.5-5.0		0	None	ML	3.5	Clayey SILT, brown, low plasticity, moist
7											(8-7-6)*
9	—	0		U	8.5-10	-	5	None			(4-5-7)
11	↓	13"		U	9.5-11		0	None	ML		SILT, brown, low plasticity, firm, moist
13											(2-5-6)
15	↓	18"		U	13.5-15		0	None	ML		Grading w/ (3") lens of silty SAND, brown,
17									SM	16.5	stiff, medium grained, subangular; moist w/trace gravels (4-5-7)
19	—	6"		U	18.5-20		0	None	GM	18.5	Sandy GRAVEL, olive-brown, loose, sub-
21	↓	8"		U	19.5-21		0	None	GM		rounded, maximum size 3", wet w/ some silt (10-17-21)
											Silty GRAVEL, grey, medium dense,
											subrounded, maximum size 6", wet
											(12-27-62)

* (8-7-6) Blow counts/6" interval sampler driven
* Sampler driven w/ 300 lb hammer falling 30 inches.

LOCATION PROXIMITY (LPRCODE)
I - WITHIN INSTALLATION O - OUTSIDE INSTALLATION

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

CONSTRUCTION METHODS (CMCCODE)
- AR - AIR ROTARY
- B - BORED OR AUGERED
- C - CABLE-TOOL
- D - DUG
- HS - HOLLOW STEM AUGER
- J - JETTED
- P - AIR-PERCUSSION
- RM - REVERSE ROTARY, MUD
- T - TRENCHING
- V - DRIVEN
- W - DRIVE AND WASH

SAMPLE METHODS (SSMCODE)
- A - AUGER CUTTINGS
- S - 2" O.D. 1.38" I.D. DRIVE SAMPLE
- U - 3" O.D. 2.42" I.D. TUBE SAMPLE
- T - 3" O.D. THIN-WALLED SHELBY TUBE

WELL COMPLETION INFORMATION

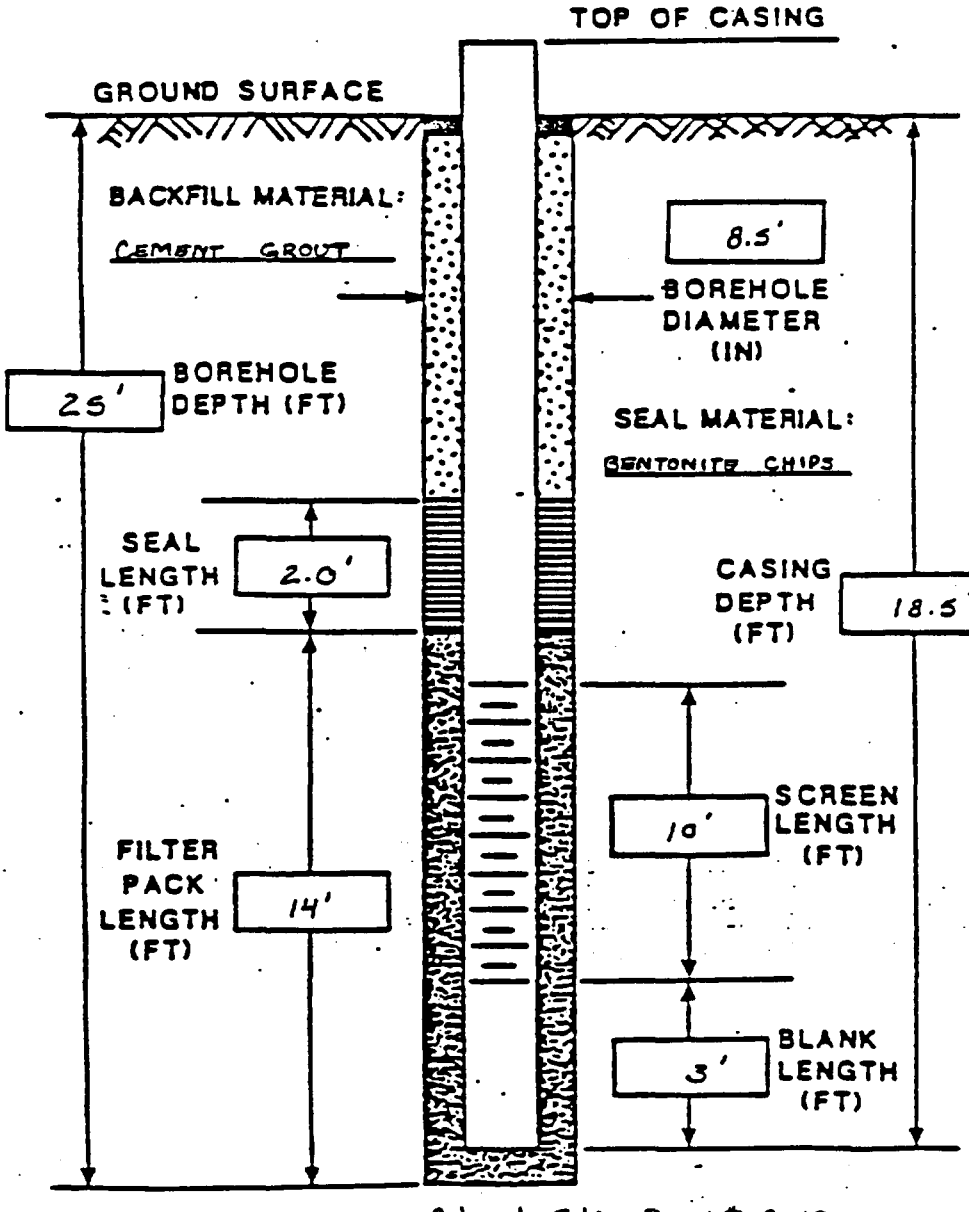
INSTALLATION ID ELMNF
LOCATION ID SPS/SA-22
WELL OWNER
WELL TYPE CLASS. MNW.
FORMATION OF COMPLETION BOOTLEGGER COVE SAND AND SILT

LOCATION TYPE WL
INSTALLATION DATE 11-7-89
INSTALLER B&V / J.Y. BLACK
WELL COMPLETION METHOD GS
ZONE OF COMPLETION 4.5' - 18.5'

SEAL END DEPTH (FT) 4.5'
MEAS. POINT ELEV. (FTMSL)
CASING DEPTH (FT) 18.5'
CASING DIAMETER (IN) 2"
CASING MATERIAL SCHEDULE 40 PVC

FILTER PACK LENGTH (FT) 14'
SCREEN BEGIN. DEPTH (FT) 3.5'
SCREEN LENGTH (FT) 10'
SCREEN SLOT SIZE (IN) .020"

REMARKS 3.1' STICK UP ABOVE GROUND SURFACE
BORING CAVED TO 18.5' PRIOR TO SETTING PVC
CHECKED/APPROVED: E.W. MEYER



FILTER PACK MATERIAL: Colorado Silica Sand # 8-12

WELL TYPE CLASSIFICATIONS (WTCCODE)
- MNW - MONITORING WELL
- PRW - PRODUCTION WELL
- TST - TEST WELL
- WSW - WATER SUPPLY WELL

CASING MATERIAL (CMACODE)
- ABS - ABS
- BRK - BRICK
- CBS - CARBON STEEL
- CNC - CONCRETE
- COP - COPPER
- FBG - FIBERGLASS
- GLS - GALVANIZED STEEL
- WRI - WROUGHT IRON
- SLS - STAINLESS STEEL
- LCS - LOW CARBON STEEL
- M - OTHER METAL
- TFL - TEFLON
- PLY - POLYPROPYLENE
- PVC - PVC
- RST - ROCK OR STONE
- STL - STEEL
- TIL - TILE
- COS - COATED STEEL
- WD - WOOD

ZONE OF COMPLETION (GZCCODE)
- A - AQUIFER
- C - CONFINING LAYER

WELL COMPLETION METHODS (WCMCODE)
- C - POROUS CONCRETE
- GP - GRAVEL PACK W/PERF.
- GS - GRAVEL PACK W/SCREEN
- H - HORIZONTAL GALLERY
- OE - OPEN END
- P - PERFORATED OR SLOTTE
- S - SCREEN
- SP - SAND POINT
- W - WALLED OR SHORED
- OP - OPEN

BOREHOLE LOG (SOIL)

INSTALLATION ID ELMNF — LOCATION ID SP5/SA-22
LOCATION TYPE BH — LOCATION PROXIMITY I
COORDINATES (FT): NORTH — EAST
SURFACE ELEVATION (FTMSL)
DRILLER CODE DISC — CONSTRUCTION METHOD HS
DATE STARTED 11/7/89 — DATE COMPLETED 11/7/89
BOREHOLE DEPTH (FT.) 25' — BOREHOLE DIAM. (IN) 8.5"

GROUNDWATER LEVELS		
DATE	TIME	DEPTH (FT)
11/7/89	1022	3' during drilling

LOCATION DESCRIPTION
Gently sloping surface located approximately 1625' east of oil/water separator + 120' south of Loop Road + 819' east of culvert

MAP REFERENCE ID — LOCATION CROSS REFERENCE

LITHOLOGIC LOG

LOGGER CODE J.Y. Black
CHECKED/APPROVED E.W. Meyer

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	OVA (OVM) PPM	ODOR	CLASS CODE	DCPTH	VISUAL DESCRIPTION
1				A							Root - plant material, soft; SILT -
3											
5	↓	18"	Yes	U	3.5-5		2	None	SM	3.5	Si. Hy SAND, brown, loose, fine grained,
7											subangular, moist, w/trace gravel, grading w/ silt lenses 6" - 1' thick (3-4-4)*
9		18"		U	8.5-10	-	2	None	SP	8.5	SAND, grey, loose, fine grained subrounded
11	↓										w/trace silt + gravel, wet (3-4-6)
13											SILT, grey, stiff, low plasticity, wet w/ trace
15	↓	24"		U	13.5-15		1	None	ML	13.5	sand - gravel
									SP	14	SAND, grey-black, loose fine to coarse grained
17											subrounded, moist, w/ trace gravel (5-5-9)
19											
21	↓	12"		U	18.5-20		0	None	SP		SAND, grey-black, loose, coarse grained, subrounded, moist, w/ some gravel
23											Occassional silt lenses. (11-9-0)
25	↓	18"	Yes	U	23.5-25		0	None	SP		SAND, grey-black, loose, coarse grained,
*	(3-4-4) Blow counts/6" interval; sampler driven										subrounded, moist, w/ some gravel, grading
*	Sampler driven w/ 300 lb hammer falling 30 inches										w/ occassional silt lenses (18-25-34)

LOCATION PROXIMITY (LPRCODE)
I - WITHIN INSTALLATION O - OUTSIDE INSTALLATION

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

CONSTRUCTION METHODS (CMCCODE)
- AR - AIR ROTARY
- B - BORED OR AUGERED
- C - CABLE-TOOL
- D - DUG
- HS - HOLLOW STEM AUGER
- J - JETTED
- P - AIR-PERCUSSION
- RM - REVERSE ROTARY, MUD
- T - TRENCHING
- V - DRIVEN
- W - DRIVE AND WASH

SAMPLE METHODS (SSMCODE)
- A - AUGER CUTTINGS
- S - 2" O.D. 1.38" I.D. DRIVE SAMPLE
- U - 3" O.D. 2.42" I.D. TUBE SAMPLE
- T - 3" O.D. THIN-WALLED SHELBY TUBE

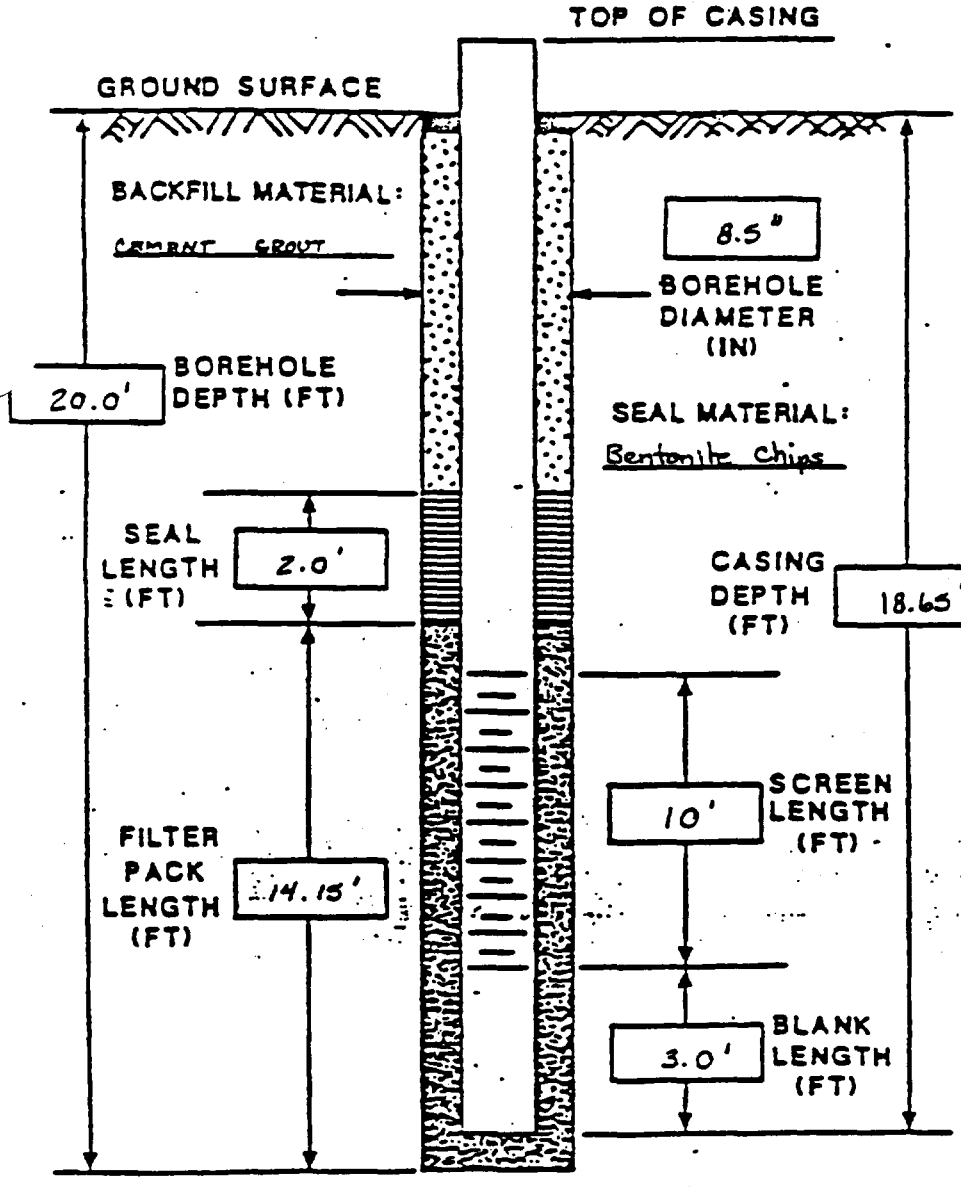
WELL COMPLETION INFORMATION

INSTALLATION ID ELMNF
LOCATION ID 503/GA-23
WELL OWNER
WELL TYPE CLASS MNW
FORMATION OF COMPLETION BOOTLEGGER COVE CLAY, GRAVEL, SAND

LOCATION TYPE WL
INSTALLATION DATE 11-8-89
INSTALLER B&V / J.Y. BLACK
WELL COMPLETION METHOD GS
ZONE OF COMPLETION 9.3'-18.65'

SEAL END DEPTH (FT) 4.5'
MEAS. POINT ELEV. (FTMSL)
CASING DEPTH (FT) 18.65'
CASING DIAMETER (IN) 2"
CASING MATERIAL SCHEDULE 40 PVC
REMARKS 2.7' STICK UP ABOVE GROUND SURFACE
BORING CAVED TO 18.65 PRIOR TO SETTING PVC

FILTER PACK LENGTH (FT) 14.15'
SCREEN BEGIN. DEPTH (FT) 5.65'
SCREEN LENGTH (FT) 10'
SCREEN SLOT SIZE (IN) 020"
CHECKED/APPROVED: E.W. MEYER



FILTER PACK MATERIAL: Colorado Silica Sand #8-12

WELL TYPE CLASSIFICATIONS (WTCCODE)
- MNW - MONITORING WELL
- PRW - PRODUCTION WELL
- TST - TEST WELL
- WSW - WATER SUPPLY WELL

CASING MATERIAL (CMACODE)
- ABS - ABS
- BRK - BRICK
- CBS - CARBON STEEL
- CNC - CONCRETE
- COP - COPPER
- FBG - FIBERGLASS
- GLS - GALVANIZED STEEL
- WRI - WROUGHT IRON
- SLS - STAINLESS STEEL
- LCS - LOW CARBON STEEL
- M - OTHER METAL
- TFL - TEFLON
- PLY - POLYPROPYLENE
- PVC - PVC
- RST - ROCK OR STONE
- STL - STEEL
- TIL - TILE
- COS - COATED STEEL
- WD - WOOD

ZONE OF COMPLETION (GZCCODE)
- A - AQUIFER
- C - CONFINING LAYER

WELL COMPLETION METHODS: (WCMCODE)
- C - POROUS CONCRETE
- GP - GRAVEL PACK W/PERF.
- GS - GRAVEL PACK W/SCREE
- H - HORIZONTAL GALLERY
- OE - OPEN END
- P - PERFORATED OR SLOTTE
- S - SCREEN
- SP - SAND POINT
- W - WALLED OR SHORED
- OP - OPEN

BOREHOLE LOG (SOIL)

INSTALLATION ID ELMNF — LOCATION ID SP5/SA-23
LOCATION TYPE BH — LOCATION PROXIMITY I
COORDINATES (FT): NORTH ____ EAST ____
SURFACE ELEVATION (FTMSL) ____
DRILLER CODE DISC — CONSTRUCTION METHOD HS
DATE STARTED 11/7/89 — DATE COMPLETED 11/8/89
BOREHOLE DEPTH (FT.) 20' — BOREHOLE DIAM. (IN) 8.5"

GROUNDWATER LEVELS		
DATE	TIME	DEPTH (FT)
11/7/89	1535	4.5 during drilling
11/8/89	0830	2.5 during drilling

LOCATION DESCRIPTION
Gently SE sloping surface, close to surface flow from Culvert under Loop Road Y; 168' south of centerline of Loop Road 473' east of culvert

MAP REFERENCE ID ____ LOCATION CROSS REFERENCE ____

LITHOLOGIC LOG

LOGGER CODE J.Y. Black
RECRD/APPROVED: E.W. MEYER

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM (OVA)	ODOR	CLASS/ CODE	USCS	VISUAL DESCRIPTION
1				A							Roadfill silt-clay w/ some gravel
3											
5	↓	18"	Yes	U	3.5-5	8"	0	None	ML	SS	Clayey SILT, brown, firm, low plasticity,
7											moist, massive bedding (2-2-3) *
9		18"		U	8.5-10	-	5-10	None	CH	ES	CLAY, brown, stiff, high plasticity,
11	↓										moist w/ trace gravel (5-6-6)
13									SP	SS	SAND, brown, loose, medium to fine grained,
15	↓	17"		U	13.5-15		0	None	CH	ES	subrounded, wet
17									SM	SM	CLAY, brown, hard, high plasticity, moist w/ trace gravel
19											SILTY SAND, brown, loose, medium to fine grained, subrounded, moist (4-9-9)
21	↓	12"	Yes	U	18.5-20		0	None	CH	ES	Hairline contact between clay + silty sand
									GM	GM	CLAY, brown, very stiff, high plasticity, moist
											SANDY GRAVEL, grey-brown, loose, maximum
											size 1" fine to coarse grained sand,
(2-2-3) Blow count / 6" interval sampler driven											subrounded, wet, w/ silt (5-9-7)
Sampler driven w/ 300lb Hammer falling 30 inches											

LOCATION PROXIMITY (LPRCODE)
I - WITHIN INSTALLATION O - OUTSIDE INSTALLATION

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

CONSTRUCTION METHODS (CMCCODE)
- AR - AIR ROTARY
- B - BORED OR AUGERED
- C - CABLE-TOOL
- D - DUG
- HS - HOLLOW STEM AUGER
- J - JETTED
- P - AIR-PERCUSSION
- RM - REVERSE ROTARY, MUD
- T - TRENCHING
- V - DRIVEN
- W - DRIVE AND WASH

SAMPLE METHODS (SSMCODE)
- A - AUGER CUTTINGS
- S - 2" O.D. 1.38" I.D. DRIVE SAMPLE
- U - 3" O.D. 2.42" I.D. TUBE SAMPLE
- T - 3" O.D. THIN-WALLED SHELBY TUBE

WELL COMPLETION INFORMATION

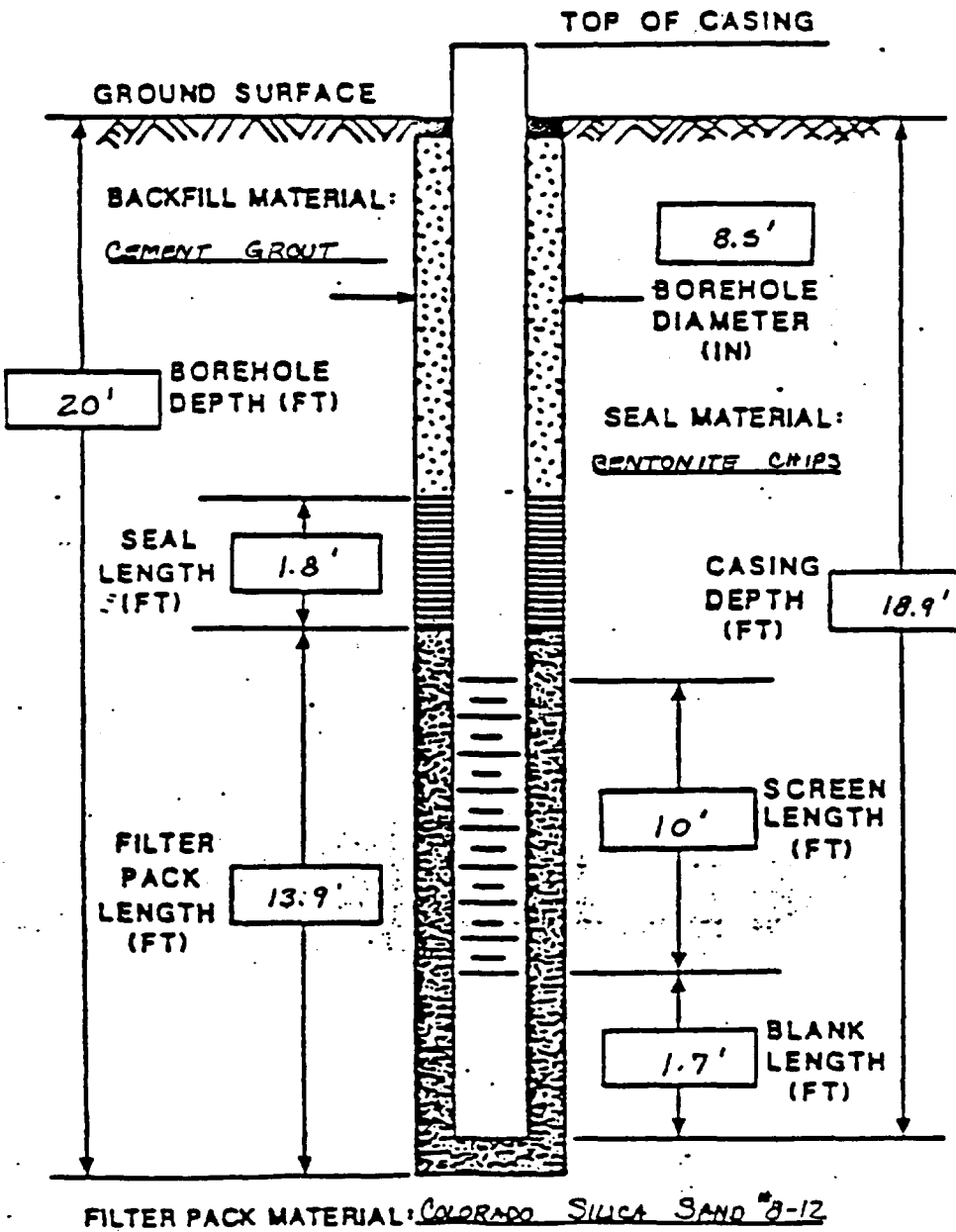
INSTALLATION ID ELMNE
LOCATION ID SP&SA-24
WELL OWNER
WELL TYPE CLASS. MNW
FORMATION OF COMPLETION BOOTLEGGER COVE CLAY AND SAND

LOCATION TYPE WL
INSTALLATION DATE 11-8-89
INSTALLER B&V / J.Y. BLACK
WELL COMPLETION METHOD GS
ZONE OF COMPLETION 5'-18.9'

SEAL END DEPTH (FT) 5'
MEAS. POINT ELEV. (FTMSL)
CASING DEPTH (FT) 18.9'
CASING DIAMETER (IN) 2"
CASING MATERIAL SCHEDULE 40 PVC

FILTER PACK LENGTH (FT) 13.9'
SCREEN BEGIN. DEPTH (FT) 7.2'
SCREEN LENGTH (FT) 10'
SCREEN SLOT SIZE (IN) .020"

REMARKS 2.75' STICKUP ABOVE GROUND SURFACE
BORING CAVED TO 18.9' PRIOR TO SETTING PVC. CHECKED/APPROVED: E.W. MEYER



WELL TYPE CLASSIFICATIONS (WTCCODE)
- MNW - MONITORING WELL
- PRW - PRODUCTION WELL
- TST - TEST WELL
- WSW - WATER SUPPLY WELL

CASING MATERIAL (CMACODE)
- ABS - ABS
- BRK - BRICK
- CBS - CARBON STEEL
- CNC - CONCRETE
- COP - COPPER
- FBG - FIBERGLASS
- GLS - GALVANIZED STEEL
- WRI - WROUGHT IRON
- SLS - STAINLESS STEEL
- LCS - LOW CARBON STEEL
- M - OTHER METAL
- TFL - TEFLON
- PLY - POLYPROPYLENE
- PVC - PVC
- RST - ROCK OR STONE
- STL - STEEL
- TIL - TILE
- COS - COATED STEEL
- WD - WOOD

ZONE OF COMPLETION (GZCCODE)
- A - AQUIFER
- C - CONFINING LAYER

WELL COMPLETION METHODS (WCMCODE)
- C - POROUS CONCRETE
- GP - GRAVEL PACK W/PERF.
- GS - GRAVEL PACK W/SCREEN
- H - HORIZONTAL GALLERY
- OE - OPEN END
- P - PERFORATED OR SLOTTE
- S - SCREEN
- SP - SAND POINT
- W - WALLED OR SHORED
- OP - OPEN

BOREHOLE LOG (SOIL)

INSTALLATION ID ELMNF — LOCATION ID SB5/SA-24
LOCATION TYPE BH — LOCATION PROXIMITY I
COORDINATES (FT): NORTH ____ EAST ____
SURFACE ELEVATION (FTMSL) ____
DRILLER CODE DISC — CONSTRUCTION METHOD HS
DATE STARTED 11/8/89 — DATE COMPLETED 11/8/89
BOREHOLE DEPTH (FT.) 20' — BOREHOLE DIAM. (IN) 8.5"

GROUNDWATER LEVELS		
DATE	TIME	DEPTH (FT)

LOCATION DESCRIPTION
Gently S.E. sloping surface approximately 164' south of Loop Road, and 123' east of culvert

MAP REFERENCE ID ____ LOCATION CROSS REFERENCE ____

LITHOLOGIC LOG

LOGGER CODE J.Y. Black
Checked/Approved: E.W. Meyer

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	(OVA) VOC PPM	ODOR	CLASS/ CODE	Depth	VISUAL DESCRIPTION
1											
3											
5	↓	14"	YES	U	3.5-5.0		0	None	SP	3.5	SAND, brown, loose, subangular fine grained, wet, w/ trace to some silt. (3-6-7)
7											
9	—	12"		U	8.5-10	-	0	None	CL-ML 5.0	8.5	Silty CLAY, brown, stiff, low plasticity,
11	↓										interbedded w/ SAND, grey-brown, firm,
13											fine grained, subrounded, wet w/ trace silt (6-6-6)
15	↓	16"		U	13.5-15.0		0	None	CL	13.5	CLAY, grayish-brown, stiff, low to high
17											plasticity, moist. (9-6-7)
19	—	18"	YES	U	18.5-20		0	None	CL		CLAY, grey, stiff, high plasticity,
21	↓										moist (5-7-7)
* (3-6-7) Blow count/6" interval sampler driven											
* Sampler driven w/ 300 lb hammer falling 30 inches											

LOCATION PROXIMITY (LPRCODE)
I - WITHIN INSTALLATION O - OUTSIDE INSTALLATION

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

CONSTRUCTION METHODS (CMCODE)
- AR - AIR ROTARY
- B - BORED OR AUGERED
- C - CABLE-TOOL
- D - DUG
- HS - HOLLOW STEM AUGER
- J - JETTED
- P - AIR-PERCUSSION
- RM - REVERSE ROTARY, MUD
- T - TRENCHING
- V - DRIVEN
- W - DRIVE AND WASH

SAMPLE METHODS (SSMCODE)
- A - AUGER CUTTINGS
- S - 2" O.D. 1.38" I.D. DRIVE SAMPLE
- U - 3" O.D. 2.42" I.D. TUBE SAMPLE
- T - 3" O.D. THIN-WALLED SHELBY TUBE

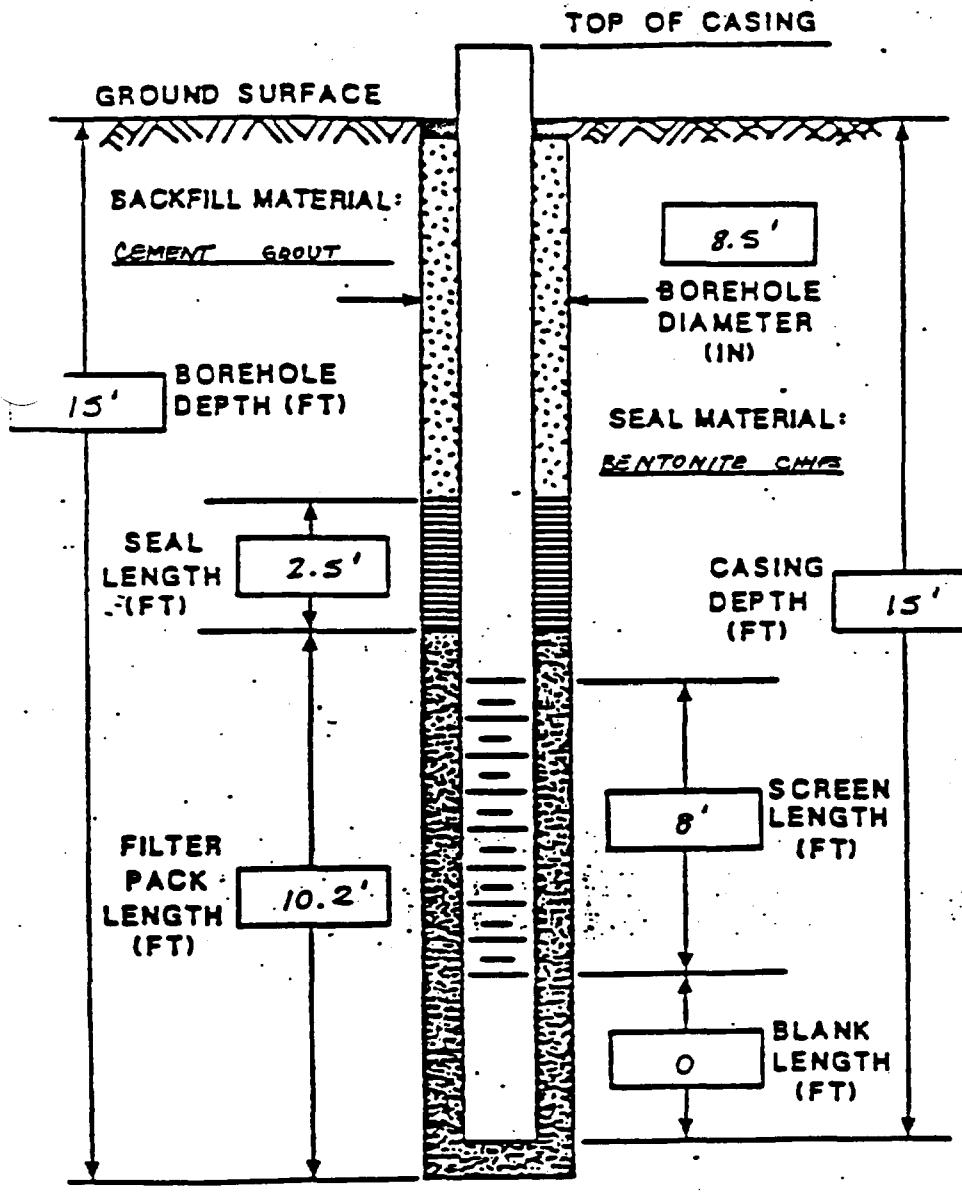
WELL COMPLETION INFORMATION

INSTALLATION ID ELMNF
LOCATION ID SPS/SA-25
WELL OWNER
WELL TYPE CLASS MNW
FORMATION OF COMPLETION SCITUATE/SCITUATE COVE SILT, GRAVEL AND SAND
LOCATION TYPE WL
INSTALLATION DATE 11-9-89
INSTALLER B&V / J.Y. BLACK
WELL COMPLETION METHOD GS
ZONE OF COMPLETION 4.8'-15'

SEAL END DEPTH (FT) 4.8'
MEAS. POINT ELEV. (FTMSL)
CASING DEPTH (FT) 15'
CASING DIAMETER (IN) 2"
CASING MATERIAL SCHEDULE 40 PVC
FILTER PACK LENGTH (FT) 10.2'
SCREEN BEGIN. DEPTH (FT) 7.0'
SCREEN LENGTH (FT) 8'
SCREEN SLOT SIZE (IN) .020"

REMARKS 2.95' STICK UP ABOVE GROUND SURFACE

CHECKED/APPROVED: G.W. MEYER



FILTER PACK MATERIAL: Colorado Silica Sand #8-12

WELL TYPE CLASSIFICATIONS (WTCODE)
- MNW - MONITORING WELL
- PRW - PRODUCTION WELL
- TST - TEST WELL
- WSW - WATER SUPPLY WELL

CASING MATERIAL (CMACODE)
- ABS - ABS
- BRK - BRICK
- CBS - CARBON STEEL
- CNC - CONCRETE
- COP - COPPER
- FBG - FIBERGLASS
- GLS - GALVANIZED STEEL
- WRI - WROUGHT IRON
- SLS - STAINLESS STEEL
- LCS - LOW CARBON STEEL
- M - OTHER METAL
- TFL - TEFLON
- PLY - POLYPROPYLENE
- PVC - PVC
- RST - ROCK OR STONE
- STL - STEEL
- TIL - TILE
- COS - COATED STEEL
- WD - WOOD

ZONE OF COMPLETION (GZCCODE)
- A - AQUIFER
- C - CONFINING LAYER

WELL COMPLETION METHODS (WCMCODE)
- C - POROUS CONCRETE
- GP - GRAVEL PACK W/PERF.
- GS - GRAVEL PACK W/SCREEN
- H - HORIZONTAL GALLERY
- OE - OPEN END
- P - PERFORATED OR SLOTTE
- S - SCREEN
- SP - SAND POINT
- W - WALLED OR SHORED
- OP - OPEN

BOREHOLE LOG (SOIL)

INSTALLATION ID ELMINF — LOCATION ID SPS/SA-25
LOCATION TYPE BH — LOCATION PROXIMITY I
COORDINATES (FT): NORTH ____ EAST ____
SURFACE ELEVATION (FTMSL) ____
DRILLER CODE DISC. — CONSTRUCTION METHOD HS
DATE STARTED 11/9/89 — DATE COMPLETED 11/9/89
BOREHOLE DEPTH (FT.) 15' — BOREHOLE DIAM. (IN) 8.5"

GROUNDWATER LEVELS		
DATE	TIME	DEPTH (FT)
11/9/89	7:57	4.0' during drilling

LOCATION DESCRIPTION
Gently sloping surface approximately 116' south of Logo Road and 200' east of SPS/SA-21; 462' west of culvert

MAP REFERENCE ID ____ LOCATION CROSS REFERENCE ____

LITHOLOGIC LOG

LOGGER CODE JY BLACK
CHECKED/APPROVED: E.W. MEIER

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	OVA (OVM) PPM	ODOR	CLASS/ CODE	DEPTH	VISUAL DESCRIPTION
1											
3											
5	↓	0		U	S-5-5.0	10	7-8	None			Rock pushing ahead of Sampler (5-5-5)*
7	↓	10"	Yes	U	S-6-3		8	None	ML	5.0	SILT, dark brown firm, low plasticity,
9											w/gravel + Sand (2-2-6.)
11	↓	11"	Yes	U	S.5-10		700	Strong JP4 odor	GP	8.5	Sandy GRAVEL, grey-brown, medium dense, maximum size 4", subrounded, w/silt lenses. (9-14-21)
13											
15	↓	11"		U	13.5-15.0		20	Faint JP4 odor	SP	13.5	SAND, grey-brown, medium dense,
17											fine grained, subrounded, moist, inter-
10											bedded w/ CLAY grey-brown tough
											plasticity, w/ trace gravels. (7-13-11)
(5-5-5)	Blow count/6" interval sampler driven										
Sampler	driven w/300 lb hammer falling 30 inches										

LOCATION PROXIMITY (LPRCODE)
I - WITHIN INSTALLATION O - OUTSIDE INSTALLATION

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

CONSTRUCTION METHODS (CMCCODE)
AR - AIR ROTARY
B - BORED OR AUGERED
C - CABLE-TOOL
D - DUG
HS - HOLLOW STEM AUGER
J - JETTED
P - AIR-PERCUSSION
RM - REVERSE ROTARY, MUD
T - TRENCHING
V - DRIVEN
W - DRIVE AND WASH

SAMPLE METHODS (SSMCODE)
A - AUGER CUTTINGS
S - 2" O.D. 1.38" I.D. DRIVE SAMPLE
U - 3" O.D. 2.42" I.D. TUBE SAMPLE
T - 3" O.D. THIN-WALLED SHELBY TUBE

WELL COMPLETION INFORMATION

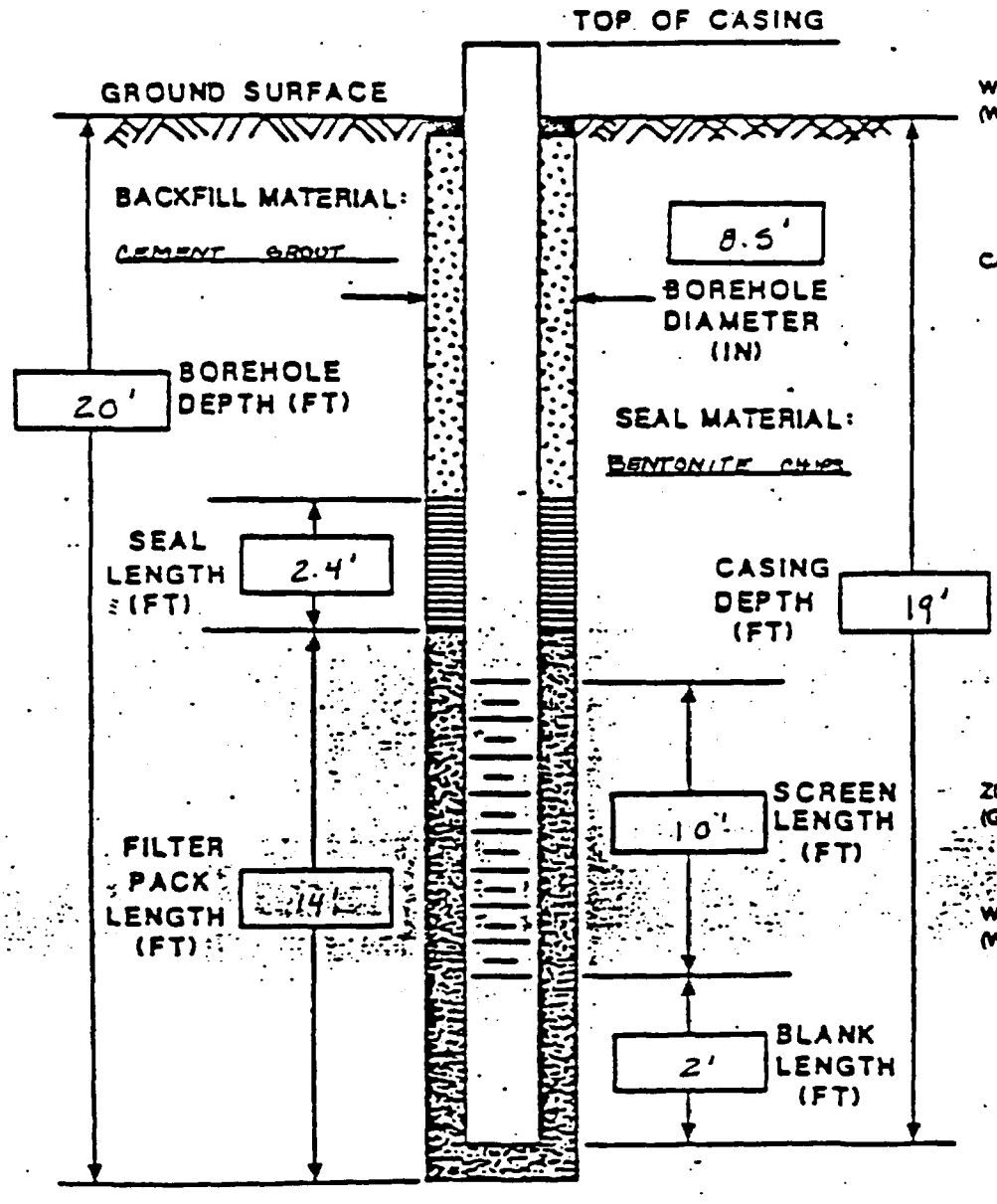
INSTALLATION ID ELMN F
LOCATION ID SP-1-A-2b
WELL OWNER
WELL TYPE CLASS MNW
FORMATION OF COMPLETION BOOTLEGGER COVE

LOCATION TYPE WL
INSTALLATION DATE 11-9-89
INSTALLER B'V / J.Y. BLACK
WELL COMPLETION METHOD GS
ZONE OF COMPLETION 5'-19'

SEAL END DEPTH (FT) 5.0'
MEAS. POINT ELEV. (FTMSL)
CASING DEPTH (FT) 19'
CASING DIAMETER (IN) 2"
CASING MATERIAL SCHEDULE 40 PVC

FILTER PACK LENGTH (FT) 14'
SCREEN BEGIN. DEPTH (FT) 7'
SCREEN LENGTH (FT) 10'
SCREEN SLOT SIZE (IN) .020"

REMARKS 3'1" STICKUP ABOVE GROUND SURFACE
BORING CAVED TO 19' PRIOR TO SETTING PVC. CHECKED/APPROVED: R.V. MEYER



WELL TYPE CLASSIFICATIONS (WTCODE)
- MNW - MONITORING WELL
- PRW - PRODUCTION WELL
- TST - TEST WELL
- WSW - WATER SUPPLY WELL

CASING MATERIAL (CMACODE)
- ABS - ABS
- BRK - BRICK
- CBS - CARBON STEEL
- CNC - CONCRETE
- COP - COPPER
- FBG - FIBERGLASS
- GLS - GALVANIZED STEEL
- WRI - WROUGHT IRON
- SLS - STAINLESS STEEL
- LCS - LOW CARBON STEEL
- M - OTHER METAL
- TFL - TEFLON
- PLY - POLYPROPYLENE
- PVC - PVC
- RST - ROCK OR STONE
- STL - STEEL
- TIL - TILE
- COS - COATED STEEL
- WD - WOOD

ZONE OF COMPLETION (GZCODE)
- A - AQUIFER
- C - CONFINING LAYER

WELL COMPLETION METHODS (WCMCODE)
- C - POROUS CONCRETE
- GP - GRAVEL PACK W/PERF.
- GS - GRAVEL PACK W/SCREEN
- H - HORIZONTAL GALLERY
- OE - OPEN END
- P - PERFORATED OR SLOTTED
- S - SCREEN
- SP - SAND POINT
- W - WALLED OR SHORED
- OP - OPEN

BOREHOLE LOG (SOIL)

INSTALLATION ID ELMNF — LOCATION ID SB5/52-2C
LOCATION TYPE SH — LOCATION PROXIMITY I
COORDINATES (FT): NORTH — EAST
SURFACE ELEVATION (FTMSL)
DRILLER CODE DISC — CONSTRUCTION METHOD HS
DATE STARTED 11/9/89 — DATE COMPLETED 11/9/89
BOREHOLE DEPTH (FT.) 20' — BOREHOLE DIAM. (IN) 8.5"

GROUNDWATER LEVELS		
DATE	TIME	DEPTH (FT)
11/9/89	1340	8' during drilling

LOCATION DESCRIPTION
Gently sloping surface approximately 335' south of Loop Road center line, and 147' West of culvert

MAP REFERENCE ID — LOCATION CROSS REFERENCE

LITHOLOGIC LOG

LOGGER CODE J.Y. Black
CHECKED/APPROVED E.W. Meyer

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD **	SAMPLE ID	TEMP °F	VOC PPM (over)	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
1				A						SILT, brown, low plasticity
3										
5	↓	18"	Yes	U	3.5-5.0	3°	120	None	CL/SP	CLAY, grey, stiff, low plasticity, dry,
7										interbedded w/ SAND, grey-brown, loose, fine grained, subrounded, dry (3-5-7)
9										
11	↓	13"		U	8.5-10.0		60	None	ML/SP	SILT, brown, stiff, low plasticity, moist
13										interbedded w/ SAND, grey brown, loose fine grained, subrounded, moist (5-6-7)
15	↓	13"	Yes	U	13.5-15.0		65	None	ML/SP	CLAY, grey brown, stiff, high plasticity
17										wet, interbedded w/ SAND, grey brown, medium dense, fine grained, subrounded
19										wet (4-6-9)
21	↓	15.5"		U	18.5-20.0		50	None	CL	CLAY, grey, stiff, high plasticity,
23										wet, w/ thin vertical stringers of SAND
* (3-5-7)	Blow count/6" interval			Sampler driven						
* Sampled driven w/ 300 lbs hammer falling 30 inches										

LOCATION PROXIMITY (LPRCODE)
I - WITHIN INSTALLATION O - OUTSIDE INSTALLATION

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

CONSTRUCTION METHODS (CMCCODE)
- AR - AIR ROTARY
- B - BORED OR AUGERED
- C - CABLE-TOOL
- D - DUG
- HS - HOLLOW STEM AUGER
- J - JETTED
- P - AIR-PERCUSSION
- RM - REVERSE ROTARY, MUD
- T - TRENCHING
- V - DRIVEN
- W - DRIVE AND WASH

SAMPLE METHODS (SSMCODE)
- A - AUGER CUTTINGS
- S - 2" O.D. 1.38" I.D. DRIVE SAMPLE
- U - 3" O.D. 2.42" I.D. TUBE SAMPLE
- T - 3" O.D. THIN-WALLED SHELBY TUBE

FIELD LOG OF BORING SHEET 1 OF 1

LOCATION OF BORING ST41-00 (1st Trip)

603

PROJECT: Elmendorf	BORING NO. ST41-
	TOTAL DEPTH:
JOB NO.: 06214 012.08	LOGGED BY: RBA
PROJ. MGR.: MAB	EDITED BY:
DRILLING CONTRACTOR: S+P	
DRILL RIG TYPE: B-61	
DRILLERS NAME: Tim Borer	
SAMPLING METHODS: 2.5" Split spoon	
HAMMER WT.: 300#	DROP: 30"
STARTED, TIME: 1130	DATE: 10/11/90
COMPLETED, TIME:	DATE:
BORING DEPTH (ft.)	
CASING DEPTH (ft.)	
WATER DEPTH (ft.)	
TIME:	
DATE:	
BACKFILLED, TIME:	DATE: BY:
SURFACE ELEV.:	DATUM:
CONDITIONS:	

SAMPLE DEPTH	SAMPLER TYPE	BLOWS/6-IN	INCHES DRIVEN	INCHES RECOVERED	SAMPLE CONDITION	DRILLING RATE (min/ft)	OVM	% LEL	Sample #	DEPTH IN FEET	GRAPHIC LOG
0	2.5" SS	2 3 5	6 6 6	5 6 6	G G G	N	0	—	41-205A 41-205B	1 2	
5'	2.5" SS	2 5 5	6 6 6	0 6 6	G G G	N	0	—	41-205C 41-205D	5 6	
										3 4 7 8 9 10	

DARK OLIVE ~~BROWN~~ GRAY (5Y2.5/2) GRAVEL (GP) loose, moist, small gravel (up to 3/4" Ø) with some sand, subrounded gravel

DARK OLIVE ~~BROWN~~ GRAY (5Y2.5/2) SAND (SP) loose, moist, mostly fine grained sand with few gravel up to 3/4" Ø subrounded

Auger refusal backed up 5'

PP7

HARDING-LAWSON & ASSOCIATES

FIELD LOG OF BORING (CONTINUED) SHEET 2 OF 2

PROJECT: Elmendorf | NO. 0624.012.08 | BORING NO. 41-2

DEPTH	TYPE	BLOWS	DRIVEN	REC'V'D	COND	BRAKE Odor	OVM	%LEL	Sample #	DEPTH	GRAPHIC LOG	
10'	2.3	4	6	6	G	N	Ø	—	41-288G	11		MIXTURE SANDY SILT (SM)
		4	6	6	G	N			41-288H			loose, moist, fine grained sand and silt, trace
										2		subrounded gravel. Distinct color differences
										3	SM	
										4		
15'	2.5'	1	6	0						15		DARK OLIVE GRAY (5Y3/2) Sandy silt (SM)
	S.S.	2	6	5.5'	Top Sheet	N	0	—	41-288J	6	▽	loose, wet from 16' to 16.5', mostly silt + fine
		1	6	6	G				41-288K		=	grained sand with trace gravel up to 1¼"
										7		Ø subrounded
										8		
						Duplicate Soil DPS01				9	SP	
20'	2.5'	24	6	3		Strong				20		Strong odor @ 20' OVM hit 733 7.9 in breathing
	S.S.	22	6	6	G	Strong	746	—	41-288L			VERY DARK GRAY (5Y3/1) Sand (SP) 2' from hole 0.0 to 20.5' IM
		23	6	6	G	Strong			41-288M	1	ML	dense, wet, poorly graded sand with little
										2		subrounded gravel to between 20.5 & 21' turn
										3		into low plasticity silt (ML) with few sand
												Very strong odor
24'	2.5	16	6	0		Str				4		
	SS.	16	6	6	Top Sheet		436	—	41-288O			DARK GRAY (5Y4/1) SANDY SILT to SILTY SAND
		33	6	6	G	g			41-288P	25		loose on top, med dense toward bottom (due to mo
										6		content) wet, top sand with little silt, bo
										7		silt with trace sand, trace gravel through
										8		
										9		
										30		

FIELD WELL COMPLETION FORM

ADE NAME: Eimendorf

ADE NUMBER: 1284 012.08 | PROJECT MANAGER: MAB

LOGGED BY: RPA | EDITED BY:

WELL NAME: ST-11-28 | DATE: 10/11/90

DRILLING COMPANY: S+P

EQUIPMENT: ☒ 10" INCH HOLLOW STEM AUGER ☐ ____ INCH ROTARY WASH | DRILLER: Borer | HOURS DRILLED: 3.5

GALLONS OF WATER USED DURING DRILLING: GALLONS

METHOD OF DECONTAMINATION PRIOR TO DRILLING: Steam cleaning

DEVELOPMENT

METHOD OF DEVELOPMENT:

DEVELOPMENT BEGAN DATE: TIME:

YIELD: ____ GPM	TIME: FROM	TO	DATE:	
YIELD: ____ GPM	TIME: FROM	TO	DATE:	
YIELD: ____ GPM	TIME: FROM	TO	DATE:	
YIELD: ____ GPM	TIME: FROM	TO	DATE:	

TOTAL WATER REMOVED DURING DEVELOPMENT: GALLONS

DESCRIPTION OF TURBIDITY AT END OF DEVELOPMENT: ☐ CLEAR ☐ SLIGHTLY CLOUDY ☐ MOD. TURBID ☐ VERY MUDDY

ODOR OF WATER:

WATER DISCHARGED TO: ☐ GROUND SURFACE ☐ TANK TRUCK ☐ STORM SEWERS ☐ STORAGE TANK ☐ DRUMS ☐ OTHER ____

DEPTH TO WATER AFTER DEVELOPMENT: FEET

MATERIALS USED

5 SACKS OF Colorado SAND

____ SACKS OF ____ CEMENT

____ GALLONS OF GROUT USED

____ SACKS OF POWDERED BENTONITE

75 POUNDS OF BENTONITE PELLETS

20 FEET OF 4 INCH PVC BLANK CASING

10 FEET OF 4 INCH PVC SLOTTED SCREEN

____ FEET OF ____ INCH STEEL CONDUCTOR CASING

____ YARD^3 CEMENT-SAND (REDI-MIX) ORDERED

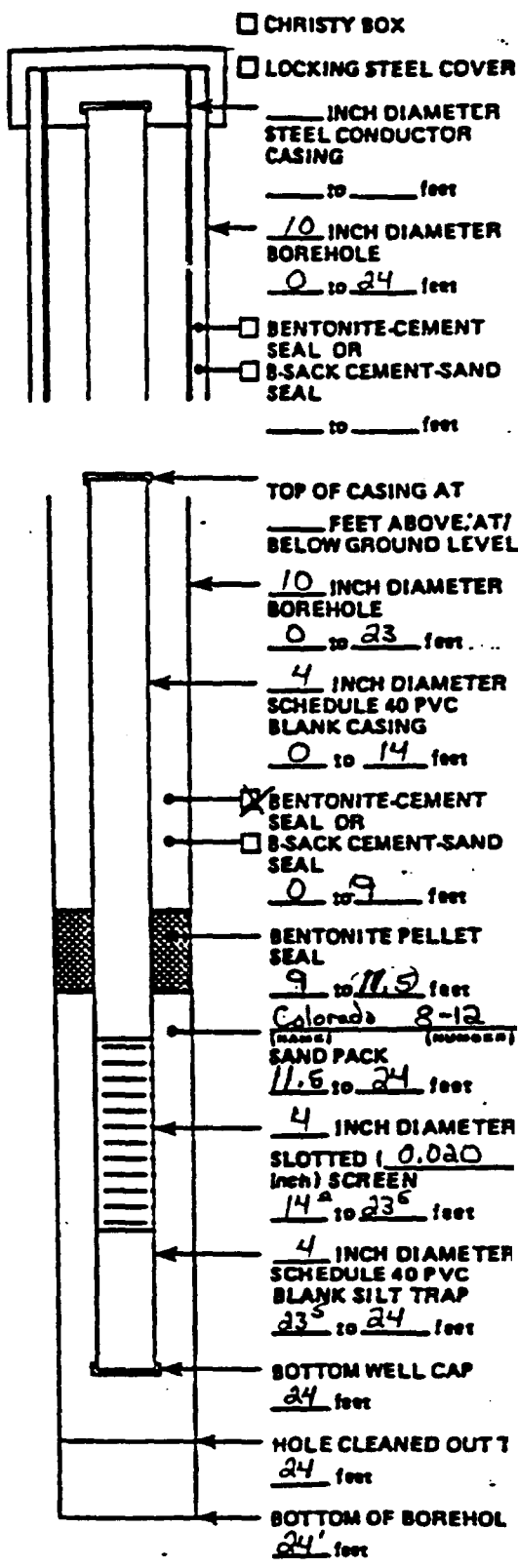
____ YARD^3 CEMENT-SAND (REDI-MIX) USED

CONCRETE PUMPER USED? ☒ NO ☐ YES

NAME ____

WELL COVER USED: ☐ LOCKING STEEL COVER ☐ CHRISTY BOX ☐ OTHER ____

SILT TRAP USED? ☐ NO ☐ YES

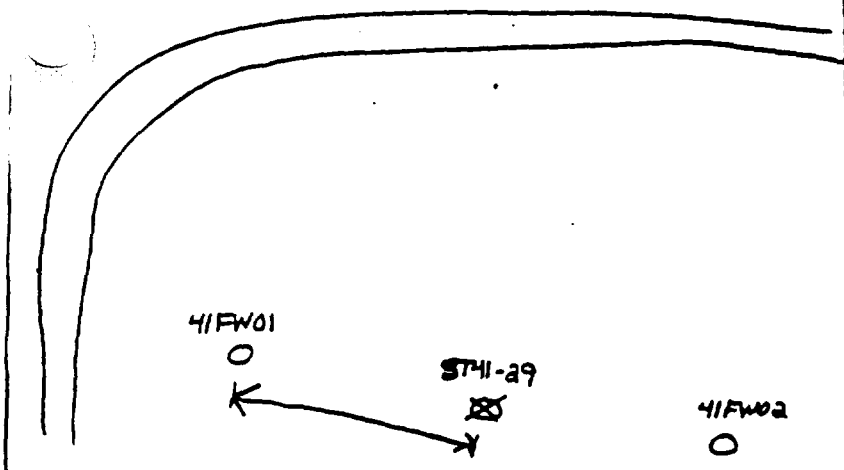


NOT TO SCALE

ADDITIONAL INFORMATION: ____

FIELD LOG OF BORING SHEET 1 OF

LOCATION OF BORING:



PROJECT: Elmendorf AFB | BORING NO. 41-2
TOTAL DEPTH:
JOB NO.: 06214 012 .08 | LOGGED BY: RBA
PROJ. MGR.: MAB | EDITED BY:
DRILLING CONTRACTOR: S+P
DRILL RIG TYPE: B-61
DRILLERS NAME: Borer
SAMPLING METHODS: 2.5" S.S.
HAMMER WT.: 300# | DROP: 30"
STARTED, TIME: 0900 | DATE: 10/12/90
COMPLETED, TIME: | DATE:
BORING DEPTH (ft.)
CASING DEPTH (ft.)
WATER DEPTH (ft.)
TIME:
DATE:
BACKFILLED, TIME: DATE: BY:
SURFACE ELEV.: | DATUM:
CONDITIONS:

SAMPLE DEPTH	SAMPLER TYPE	BLOWS/6-IN.	INCHES DRIVEN	INCHES RECOVERED	SAMPLE CONDITION	DRILLING RATE min/ft	OVM	% LEL	Sample #	DEPTH IN FEET	GRAPHIC LOG
0	2.5"	1	6	0	—					1	
	SS.	1	6	5	G	—	0	—	41-29SA		
		2	6	6	G				41-29SB	2	
										3	
										4	
										5	ML
5	2.5'	6	6	2							
	SS.	10	6	6	G	—	0	—	41-29SC	6	SP
		12	6	6	G				41-29SD		
										7	
										8	
										9	
										10	
10	2.5	4	6	3							

VERY DARK GRAYISH BROWN (2.5YR 3/2) SAND
loose, wet, sandy soil with little organic, trace gr
up to 2.5" ø subrounded

DARK GRAYISH BROWN (2.5Y 4/2) AND DARK G
(2.5Y 4/0) SANDY SILT TO 5.5' (ML) A
SAND BELOW (SP) trace fine grained sand with s
silt, multicolored to top of 5'-6" liner, both
liner + below fine grained sand with few gr
med dense, wet

DARK GRAYISH BROWN (2.5YR 4/2) AND BRO

FIELD LOG OF BORING (CONTINUED) SHEET 2 OF ____

PROJECT: Amendorf | NO. 8214.02 | BORING NO. 41-2

DEPTH	TYPE	BLOWS	DRIVEN	REC'VD	COND.	D.RATE odor	OVM	% LEL	Sample #	DEPTH	GRAPHIC LOG
10.0	2.5'	7	6	6	G	N	0	1	41-298E	11	SP
	SS	12	6	6	G				41-298F		CL
										2	
										3	
13.2	2.5'	5	6	0					No Sample		
	S.S.	8	6	0		N	0	—	41-298G	4	
		14	6	6	G				41-298H		
										15	
										6	
										7	
										8	
										9	
										0	
										1	
										2	
										3	
										4	
										5	
										6	
										7	
										8	
										9	
										0	

(10YR 3/3) SAND (SP) 10.2 to 10.5 CLAY (CL) 10.5 to 11.5 med dense, wet, sand with few gravel up to 1/2" ϕ subrounded to top of 10.2 - 11.5 sample, low plasticity clay fairly stiff below that

DARK GRAY (2.5Y 4/0) CLAY (CL) med dense, wet, clay, stiff,

FFB

FIELD WELL COMPLETION FORM

JOB NAME: Elmendorf

JOB NUMBER: 06214 012 08 | PROJECT MANAGER: MAB

LOGGED BY: RBA | EDITED BY:

WELL NAME: ST41-29 | DATE: 10/12/90

DRILLING COMPANY: S+P

EQUIPMENT: ☒ 10 INCH HOLLOW STEM AUGER | DRILLER: Borer

☐ _____ INCH ROTARY WASH | HOURS DRILLED: 3

GALLONS OF WATER USED DURING DRILLING: _____ GALLONS

METHOD OF DECONTAMINATION PRIOR TO DRILLING: Steam cleaned

DEVELOPMENT

METHOD OF DEVELOPMENT:

DEVELOPMENT BEGAN DATE: _____ TIME: _____

YIELD: _____ GPM	TIME: FROM	TO	DATE:
YIELD: _____ GPM	TIME: FROM	TO	DATE:
YIELD: _____ GPM	TIME: FROM	TO	DATE:
YIELD: _____ GPM	TIME: FROM	TO	DATE:

TOTAL WATER REMOVED DURING DEVELOPMENT: _____ GALLONS

DESCRIPTION OF TURBIDITY AT END OF DEVELOPMENT: ☐ CLEAR ☒ SLIGHTLY CLOUDY ☐ MOD. TURBID ☐ VERY MUDDY

ODOR OF WATER:

WATER DISCHARGED TO: ☐ GROUND SURFACE ☐ TANK TRUCK ☐ STORM SEWERS ☐ STORAGE TANK ☐ DRUMS ☐ OTHER _____

DEPTH TO WATER AFTER DEVELOPMENT: _____ FEET

MATERIALS USED

_____ SACKS OF _____ SAND

_____ SACKS OF _____ CEMENT

_____ GALLONS OF GROUT USED

_____ SACKS OF POWDERED BENTONITE

_____ POUNDS OF BENTONITE PELLETS

_____ FEET OF ____ INCH PVC BLANK CASING

_____ FEET OF ____ INCH PVC SLOTTED SCREEN

_____ FEET OF ____ INCH STEEL CONDUCTOR CASING

_____ YARD^3 CEMENT-SAND (REDI-MIX) ORDERED

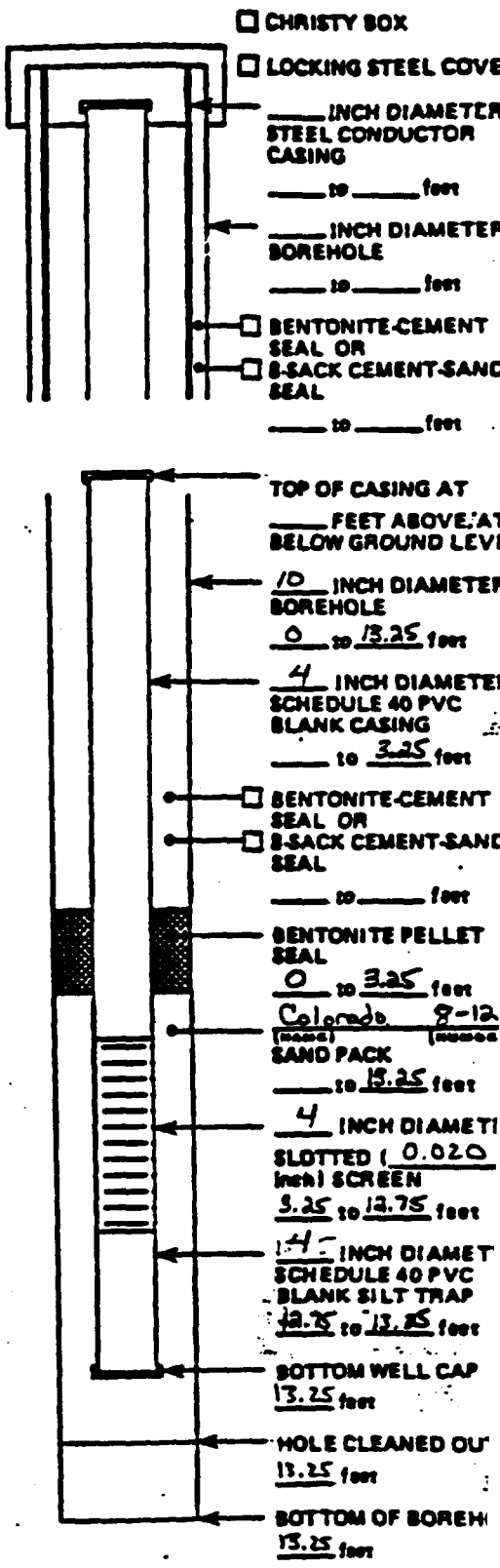
_____ YARD^3 CEMENT-SAND (REDI-MIX) USED

CONCRETE PUMPER USED? ☐ NO ☐ YES

NAME _____

WELL COVER USED: ☐ LOCKING STEEL COVER ☐ CHRISTY BOX ☐ OTHER _____

SILT TRAP USED? ☐ NO ☐ YES



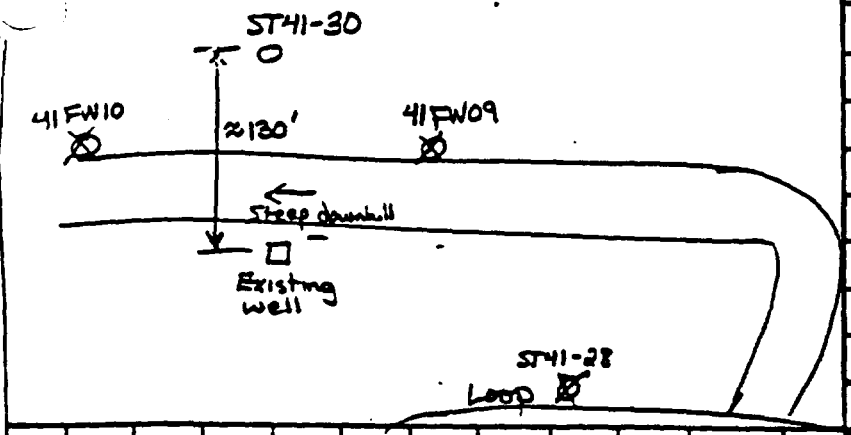
NOT TO SCALE

ADDITIONAL INFORMATION: _____

FIELD LOG OF BORING

SHEET 1 OF 2

LOCATION OF BORING:



PROJECT: Elmendorf	BORING NO. ST41
	TOTAL DEPTH: 1
JOB NO.: 0624 012.08	LOGGED BY: RBA
PROJ. MGR.: MAB	EDITED BY:
DRILLING CONTRACTOR: S+P	
DRILL RIG TYPE: Nodwell	
DRILLERS NAME: Tim Borer	
SAMPLING METHODS: 2.5" SS	
HAMMER WT.: 300 #	DROP: 30"
STARTED, TIME: 1430	DATE: 10/18/90
COMPLETED, TIME: 1730	DATE: 10/18/90
BORING DEPTH (ft.)	
CASING DEPTH (ft.)	
WATER DEPTH (ft.)	
TIME:	
DATE:	
BACKFILLED, TIME: 1800	DATE: 10/18/90 BY: Bore
SURFACE ELEV.:	DATUM:
CONDITIONS: Natural wetlands	

SAMPLE DEPTH	SAMPLER TYPE	BLOWS/6-IN.	INCHES DRIVEN	INCHES RECOVERED	SAMPLE CONDITION	DRILLING RATE (min/ft)	OVM	% LEL	Sample #	DEPTH IN FEET	GRAPHIC LOG
0	2.5" SS	1	6	2	1	1	0	1	41-30A	1	OL
		2	6	6	G						ML
	1455	4	6	6	G		To Lab.		41-30B	2	SP
										3	
										4	
5'	2.5" SS	1	6	0	1					5	
		5	6	2	1	N	0	1			
	1535	5	6	6	G	To Lab			41-30C	6	
										7	
										8	
										9	SP
10'	2.5" SS	8	6	0	—	N	0	2		10	

OLIVE GRAY (5Y4/2) SANDY SILT (ML)
loose, moist, silt with few sand and trace gravel
organic top 3"
Soil turned sandier and blue at 18" (Tim S
said) silty sand, moist. fine grained sand

OLIVE GRAY (5Y4/2) SILTY SAND (SP)
loose, moist, fine grained sand with little silt
gravel, subrounded

DARK OLIVE GRAY (5Y3/2) SILTY SAND (SP)

FIELD LOG OF BORING (CONTINUED)

SHEET 2 OF 2

PROJECT: 06214 04.08 | NO. | BORING NO. 41-30

Elmendorf

DEPTH	TYPE	BLOWS	DRIVEN	REC'V'D	COND.	O-RAFE 200'	OVM	%LEL	Sample #	DEPTH	GRAPHIC LOG	
10°	2.5" SS	12	6	5	Loose	N	0	2	41-30D	11	SP	med dense, wet, fine grained sand with few silt and trace gravel up to 1" ø
	1605	12	6	6	G				41-30E			
										2		
										3		
										4		
										15		
15°	2.5" SS	6	6	0	—			2				DARK GRAY (5Y4/1) SANDY SILT (ML)
		12	6	5	OK	N	0		41-30F	6	ML	med dense, wet, silt with few sand
	1645	14	6	6	G				41-30G			
										7		
17°	2.5" SS	7	6	2	—			—				VERY DARK GRAY (5Y3/1) GRAVELLY SILT (ML)
		10	6	6	G	N	0		41-30H	8		med dense, wet, silt with few gravel subrounded up to 1" ø.
	1715	12	6	6	G				41-30J			
										9		END HOLE 17' SS to 1815
										20		
										1		
										2		
										3		
										4		
										5		
										6		
										7		
										8		
										9		
										0		

FIELD WELL COMPLETION FORM

JOB NAME: Elmendorf AFB

JOB NUMBER: 06214 012.08 | PROJECT MANAGER: MAB

LOGGED BY: RBA | EDITED BY:

WELL NAME: ST41-30 | DATE: 10/18/90

DRILLING COMPANY: S+P

EQUIPMENT: ☒ 10 INCH HOLLOW STEM AUGER | DRILLER: Borer

☐ ____ INCH ROTARY WASH | HOURS DRILLED: 3

GALLONS OF WATER USED DURING DRILLING: ____ GALLONS

METHOD OF DECONTAMINATION PRIOR TO DRILLING: Steam cleaning

DEVELOPMENT

METHOD OF DEVELOPMENT:

DEVELOPMENT BEGAN DATE: ____ TIME: ____

YIELD: ____ GPM	TIME: FROM ____ TO ____	DATE: ____
YIELD: ____ GPM	TIME: FROM ____ TO ____	DATE: ____
YIELD: ____ GPM	TIME: FROM ____ TO ____	DATE: ____
YIELD: ____ GPM	TIME: FROM ____ TO ____	DATE: ____

TOTAL WATER REMOVED DURING DEVELOPMENT: ____ GALLONS

DESCRIPTION OF TURBIDITY AT END OF DEVELOPMENT: ☒ CLEAR ☐ SLIGHTLY CLOUDY ☐ MOD. TURBID ☐ VERY MUDDY

ODOR OF WATER:

WATER DISCHARGED TO: ☐ GROUND SURFACE ☐ TANK TRUCK ☐ STORM SEWERS ☐ STORAGE TANK ☐ DRUMS ☐ OTHER ____

DEPTH TO WATER AFTER DEVELOPMENT: ____ FEET

MATERIALS USED

5 SACKS OF Colorado 8-12 SAND

____ SACKS OF ____ CEMENT

15 GALLONS OF GROUT USED

____ SACKS OF POWDERED BENTONITE

50 POUNDS OF BENTONITE PELLETS

10 FEET OF 4 INCH PVC BLANK CASING

10 FEET OF 4 INCH PVC SLOTTED SCREEN

____ FEET OF ____ INCH STEEL CONDUCTOR CASING

____ YARD^3 CEMENT-SAND (REDI-MIX) ORDERED

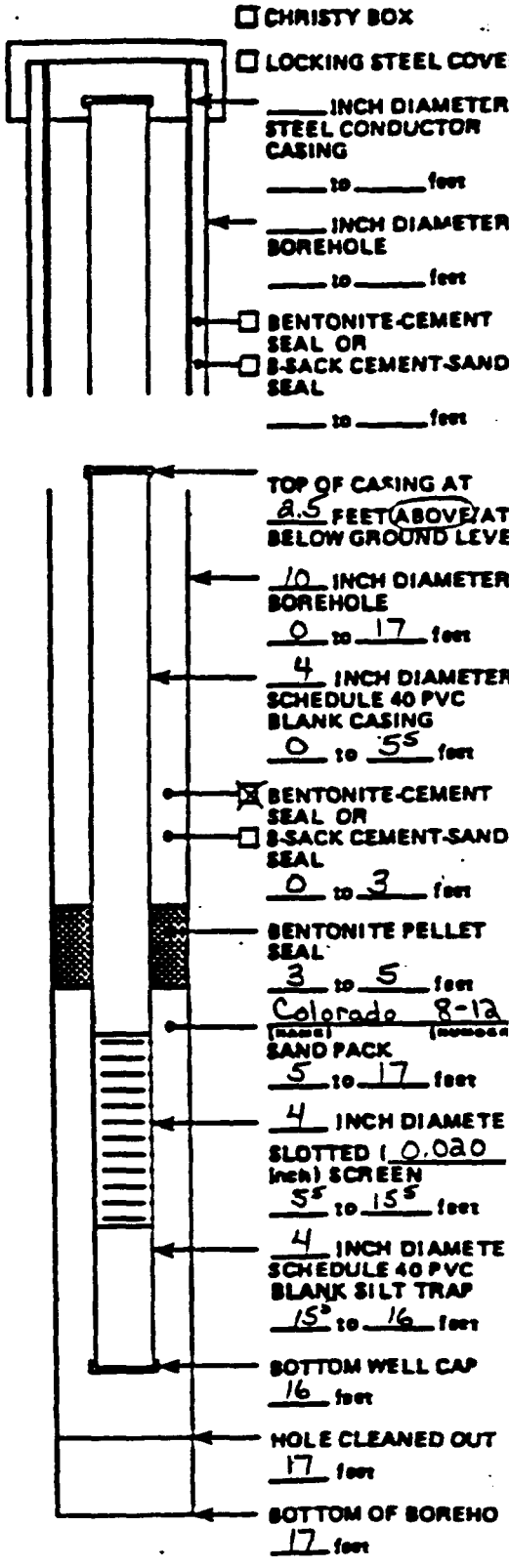
____ YARD^3 CEMENT-SAND (REDI-MIX) USED

CONCRETE PUMPER USED? ☐ NO ☒ YES

NAME ____

WELL COVER USED: ☐ LOCKING STEEL COVER ☐ CHRISTY BOX ☐ OTHER ____

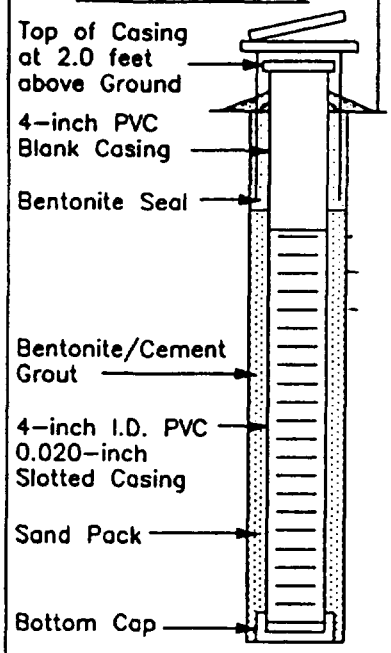
SILT TRAP USED? ☐ NO ☒ YES



NOT TO SCALE

ADDITIONAL INFORMATION: ____

MONITORING WELL COMPLETION DETAIL



LOG OF BORING ST41-31

Equipment 10-inch Hollow-Stem Auger

TOC Elev. 219.39' Date Drilled 10/19/90

Depth (ft)	Samples	Blow/Foot	OVM (ppm)	Explosimeter % LEL	Sample Number	
0		3			41-318	SILTY SAND (SM) loose, moist, olive gray (5 Y 4/2) fine grained
5		13			41-31C DPS-03	water level during drilling; medium dense below 5 feet; occasional gravels to 1/2-inch diameter
10		17				
		55				

Note: We do not have a log for ST41-35. Log ST41-33 will be sent from Denver. I will forward when I receive it.

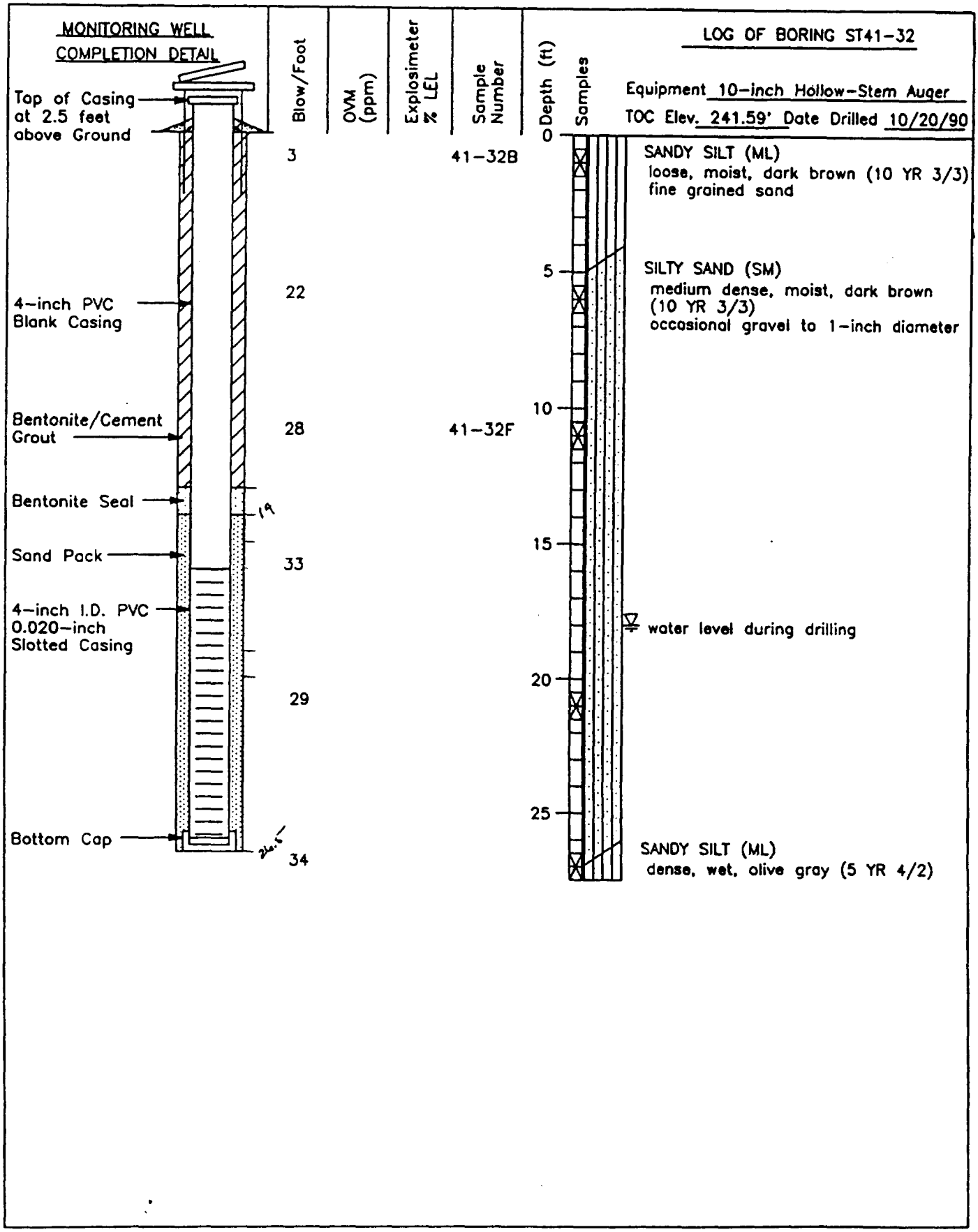
R. Harry
6-15-92

Harding Lawson Associates
Engineering and Environmental Services

Monitoring Well Completion Detail and Log of Boring ST41-31
Elmendorf A.F.B. RIFS
Elmendorf A.F.B., Alaska

PLATE

DRAWN	JOB NUMBER	APPROVED	DATE	FILE NAME
TZ	6214.015.08		1/92	BOR\6214015



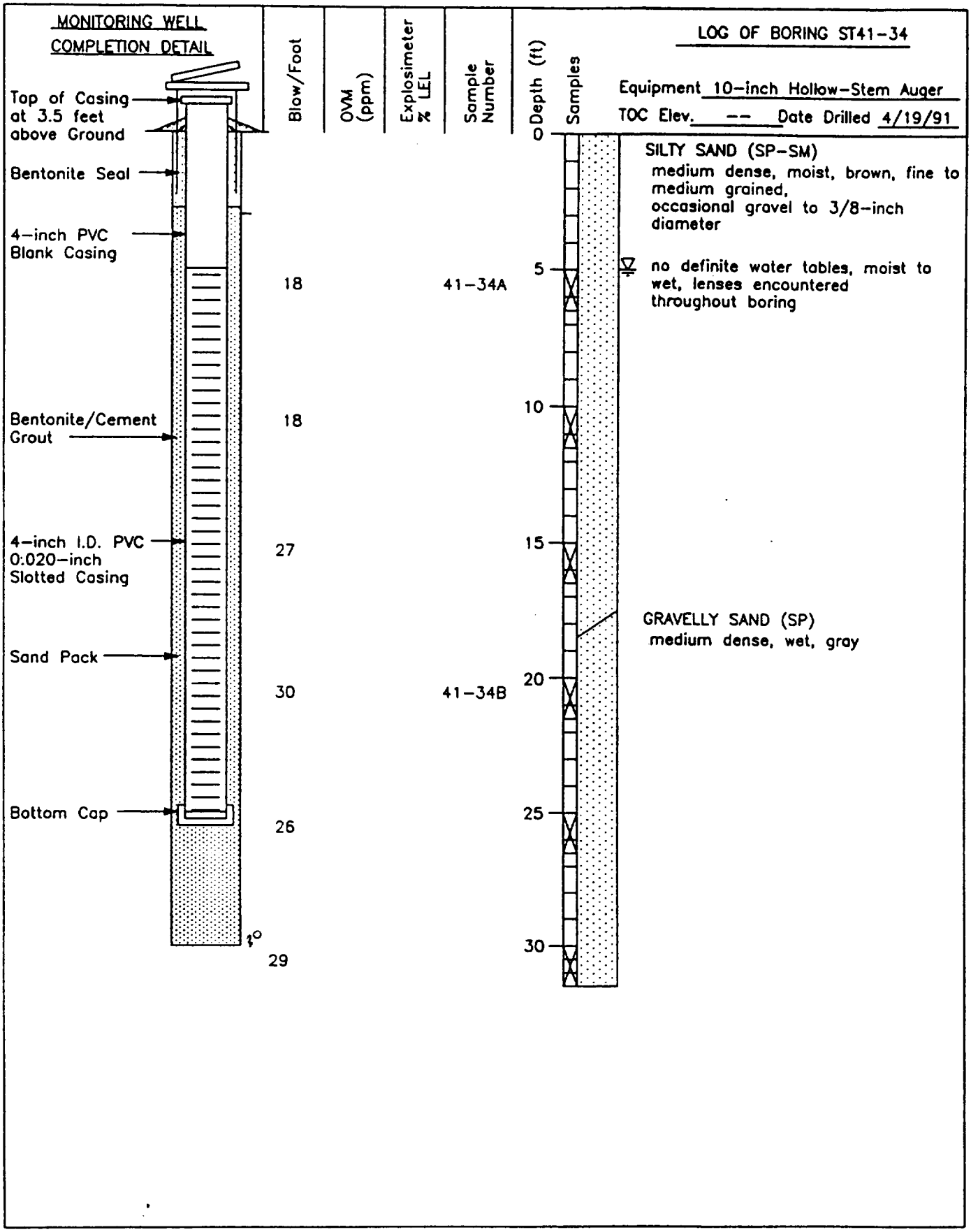
Harding Lawson Associates
Engineering and Environmental Services

Monitoring Well Completion Detail and Log of Boring ST41-32

Elmendorf A.F.B. RIFS
Elmendorf A.F.B., Alaska

PLATE

DRAWN	JOB NUMBER	APPROVED	DATE	FILE NAME
TZ	6214.015.08		1/92	BOR\6214015



Harding Lawson Associates
Engineering and Environmental Services

Monitoring Well Completion Detail and Log of Boring ST41-34
Elmendorf A.F.B. RIFS
Elmendorf A.F.B., Alaska

PLATE

DRAWN	JOB NUMBER	APPROVED	DATE	FILE NAME
TZ	6214.015.08		1/92	BOR\6214015

AIVC 31UCD.F L.W
Tim Oleman x548

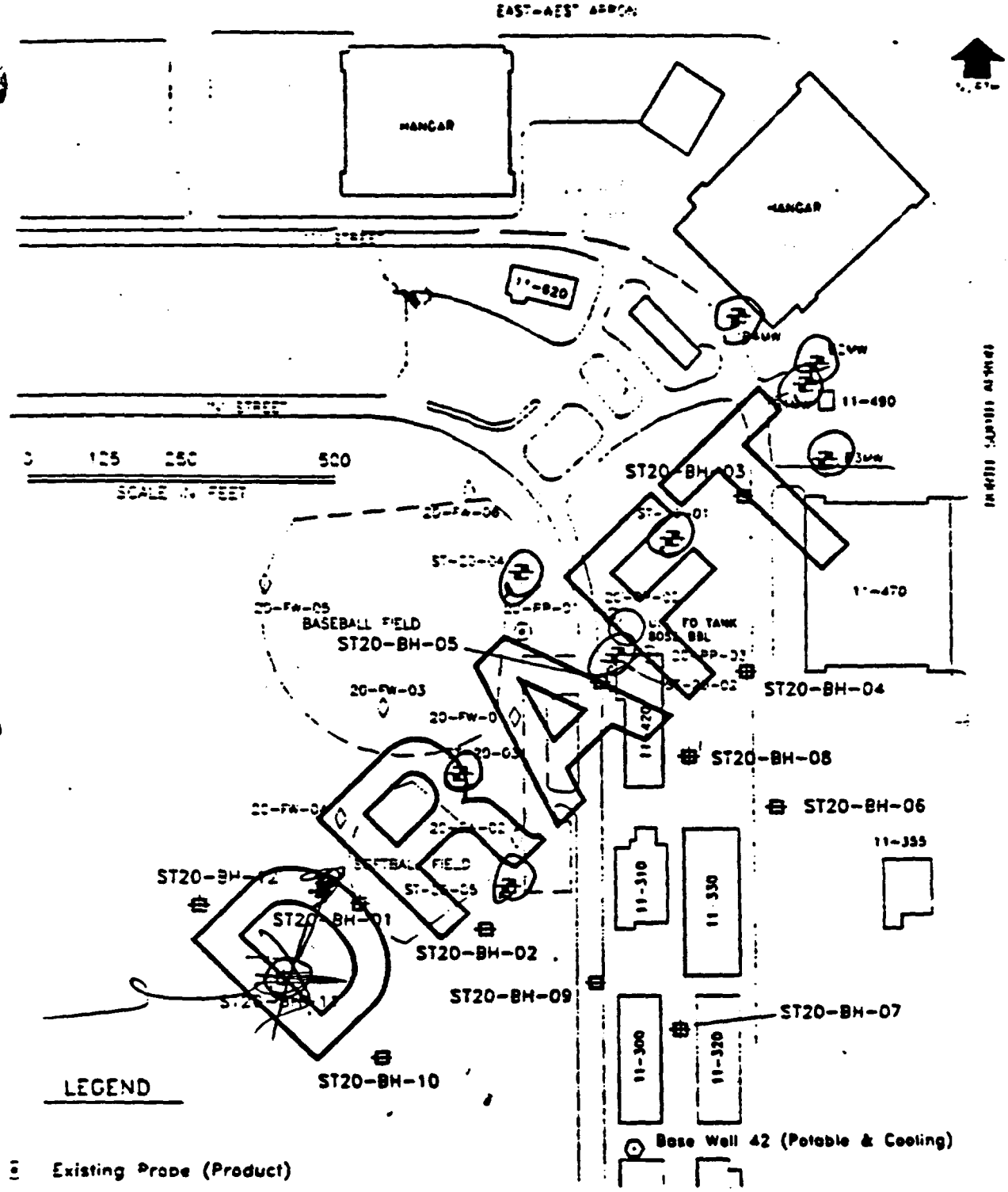


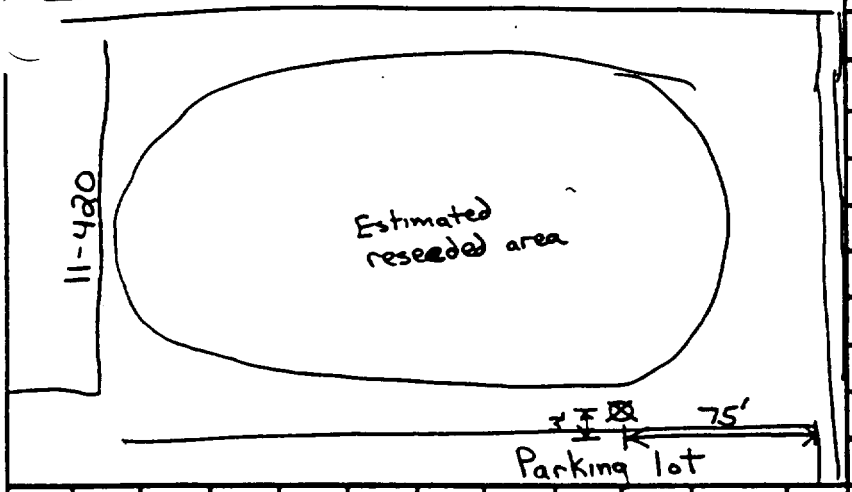
FIGURE 2-1

Elmendorf AFB, Alaska
Contaminant Source ST20
Proposed Sample Location Map

JACOBS ENGINEERING GROUP INC.

FIELD LOG OF BORING SHEET 1 OF 3

LOCATION OF BORING:



PROJECT: Elmendorf AFB, AK | BORING NO. 20-01 | TOTAL DEPTH:

JOB NO.: 06214 012.08 | LOGGED BY: RBA

PROJ. MGR.: MAB | EDITED BY:

DRILLING CONTRACTOR: S+P

DRILL RIG TYPE: B-61

DRILLERS NAME: Tim Borer

SAMPLING METHODS: 2.5" Split spoon

HAMMER WT.: 300 # | DROP: 30"

STARTED, TIME: | DATE: 10/15/90

COMPLETED, TIME: | DATE:

BORING DEPTH (ft.)			
CASING DEPTH (ft.)			
WATER DEPTH (ft.)			
TIME:			
DATE:			

BACKFILLED, TIME: DATE: BY:

SURFACE ELEV.: DATUM:

CONDITIONS:

SAMPLE DEPTH	SAMPLER TYPE	BLOWS/6-IN.	INCHES DRIVEN	INCHES RECOVERED	SAMPLE CONDITION	~~DRILLING RATE (min/ft)~~ odor	OVM	% LEL	Sample #	DEPTH IN FEET	GRAPHIC LOG
	2.5" SS.	4	6	1							OL
		5	6	6	G	N	2.5		20-01SA	1	
		6	6	5	OK				20-01SB		
							To lab			2	GP
										3	
										4	
5'	2.5" SS.	7	6	1						5	
		17	6	6	G	N	0	0	20-01SC	6	
		20	6	6	G				20-01SD		
										7	
										8	
										9	
										10	GP
10'	2.5" SS	9	6	6	G	Y	154	0			

BLACK (5YR2.5/1) SANDY GRAVEL (GP)
loose, moist, sandy gravel with max gravel size of 3", subrounded, some sand

VERY DARK GRAY (5YR3/1) SANDY GRAVEL (GP)
med dense, moist, gravel, subrounded, up to 2" ø
some sand

VERY DARK GRAYISH BROWN (2.5Y3/2) SANDY GRAVEL (GP)

HARDING-LAWSON & ASSOCIATES

FIELD LOG OF BORING (CONTINUED) SHEET 2 OF 3

PROJECT: 06214 012 .08 | NO. | BORING NO. 20-01

Elmendorf AFB, AK

DEPTH	TYPE	BLOWS	DRIVEN	REC'VD	COND.	D-RATE COLOR	OVM	%LEL	Sample #	DEPTH	GRAPHIC LOG	
1	2.5" SS	19	6	6	G	Y	154	0	20-015E	1	GP	med. dense, moist, gravel up to 2½" ø subrounded, some sand
		24	6	6	G				20-015F			
							To Lab			2		
						20015F is dup. DP502-				3		
										4		
5	2.5" SS	10	6	3						15		VERY DARK GRAYISH BROWN (2.5Y3/2) SANDY GRAVEL (GP) med dense, moist, gravel up to 2" ø subrounded with little coarse sand
		32	6	6	G	N	2.5	0	20-015G	6		
		28	6	6	G				20-015H			
										7		
										8		
										9		
20	2.5" SS	13	6	6	G					20		BLACK (10YR 2/1) GRAVELLY SAND (SP)
		22	6	6	G	O	O	O	20-015J	1	SP	med dense, moist, coarse sand with little subrounded gravel up to 1½" ø
		38	6	6	G				20-015K			
							To Lab			2		
										3		
										4		
25	2.5" SS	7	6	5	G		O			25		VERY DARK GRAYISH BROWN (2.5Y3/2) to 26'
		18	6	6	G	O	H	O	20-015L	6		DARK GRAY (2.5Y4/0) below 26' GRAVELLY SAND (SP) med dense, wet, coarse sand with few subrounded gravel up to 1½" ø
		26	6	6	G				20-015M			
										7		
										8		
										9		
											SP	
30	2.5" SS	5	6	2	-	Y	117	O		30		BLACK (2.5Y2/0) DOWN TO 30.5'. BLACK (5Y2.5/2)

FIELD LOG OF BORING (CONTINUED)

SHEET 3 OF 3

PROJECT: 06214 012 08 | NO. | BORING NO. 20-01

Elmendorf

DEPTH	TYPE	BLOWS	DRIVEN	REC'VD.	COND.	O. BRASS COVER	OVM	% LEL	SAMPLE #	DEPTH	GRAPHIC LOG	
30	2.5" SS	16	6	6	G	Y	117	0	20-01SN	31	SP	UNIFORM SAND (SP) DOWN TO 30.5', GRAVELLY SAND (SP) BELOW THAT, med. dense, wet, uniform sand down into sample 20-01SP, bottom of 20-01SP & below coarse sand w/ some gravel up to 3" ø
		25	6	6	G				20-01SP	2		
35	2.5" SS	5	6	0						3	SP	BLACK (5Y 2.5/2) GRAVELLY SAND (SP) med. dense, wet, coarse sand with little gravel up to 1½" ø.
	SS	15	6	6	G	Y	17	0	20-01SQ	4		
		23	6	5	OK				20-01SR			
										5		END HOLE @ 34'
										6		
										7		
										8		
										9		
										0		
										1		
										2		
										3		
										4		
										5		
										6		
										7		
										8		
										9		
										0		

FIELD WELL COMPLETION FORM

JOB NAME: Elmendorf

JOB NUMBER: 06214 012.08 | PROJECT MANAGER: MAB

LOGGED BY: RBA | EDITED BY:

WELL NAME: ST20-01. | DATE: 10/15/90

DRILLING COMPANY: S+P

EQUIPMENT: ☒ 10 INCH HOLLOW STEM AUGER | DRILLER: Borer

☐ ____ INCH ROTARY WASH | HOURS DRILLED: 5

GALLONS OF WATER USED DURING DRILLING: ____ GALLONS

METHOD OF DECONTAMINATION PRIOR TO DRILLING: Steam cleaning

DEVELOPMENT

METHOD OF DEVELOPMENT:

DEVELOPMENT BEGAN DATE: ____ TIME: ____

YIELD: ____ GPM	TIME: FROM ____	TO ____	DATE: ____
YIELD: ____ GPM	TIME: FROM ____	TO ____	DATE: ____
YIELD: ____ GPM	TIME: FROM ____	TO ____	DATE: ____
YIELD: ____ GPM	TIME: FROM ____	TO ____	DATE: ____

TOTAL WATER REMOVED DURING DEVELOPMENT: ____ GALLONS

DESCRIPTION OF TURBIDITY AT END OF DEVELOPMENT: ☐ CLEAR ☒ SLIGHTLY CLOUDY ☐ MOD. TURBID ☐ VERY MUDDY

ODOR OF WATER:

WATER DISCHARGED TO: ☐ GROUND SURFACE ☐ TANK TRUCK ☐ STORM SEWERS ☐ STORAGE TANK ☐ DRUMS ☐ OTHER ____

DEPTH TO WATER AFTER DEVELOPMENT: ____ FEET

MATERIALS USED

4 SACKS OF Colorado 8-12 SAND

____ SACKS OF ____ CEMENT

50 GALLONS OF GROUT USED

____ SACKS OF POWDERED BENTONITE

40 POUNDS OF BENTONITE PELLETS

30 FEET OF 4 INCH PVC BLANK CASING

10 FEET OF 4 INCH PVC SLOTTED SCREEN

____ FEET OF ____ INCH STEEL CONDUCTOR CASING

____ YARD^3 CEMENT-SAND (REDI-MIX) ORDERED

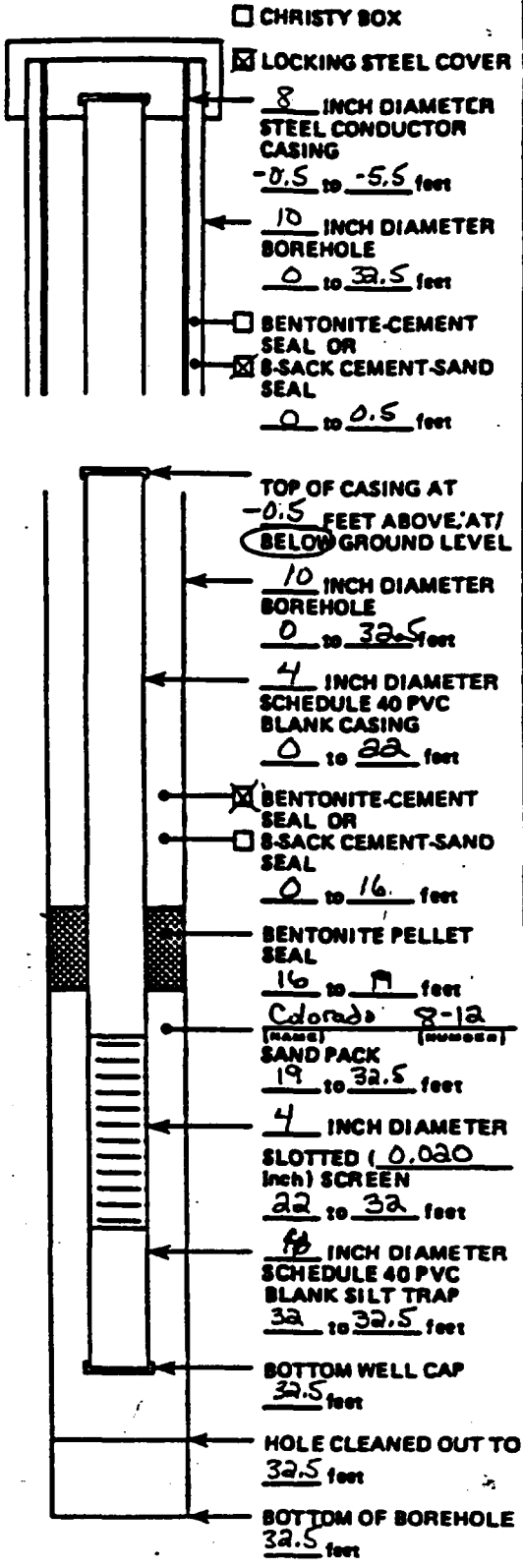
____ YARD^3 CEMENT-SAND (REDI-MIX) USED

CONCRETE PUMPER USED? ☒ NO ☐ YES

NAME ____

WELL COVER USED: ☒ LOCKING STEEL COVER ☐ CHRISTY BOX ☐ OTHER ____

SILT TRAP USED? ☐ NO ☒ YES

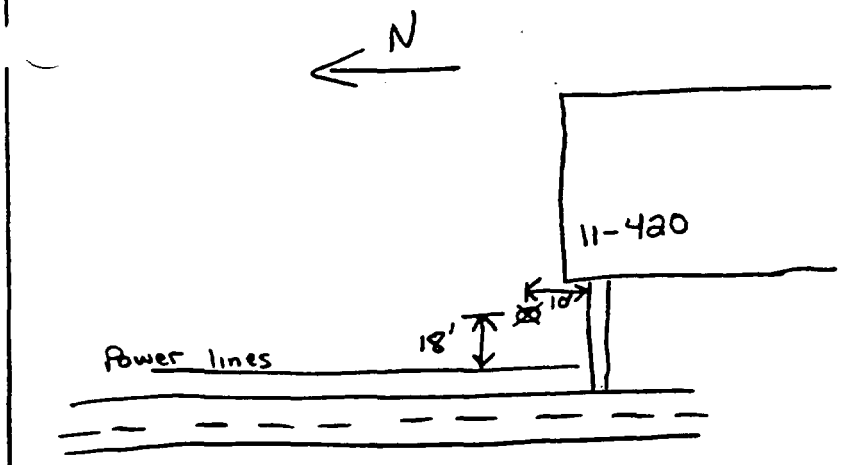


NOT TO SCALE

ADDITIONAL INFORMATION: ____

FIELD LOG OF BORING SHEET 1 OF 3

LOCATION OF BORING:



PROJECT: Elmendorf	BORING NO. 20-02
	TOTAL DEPTH:
JOB NO.: 06214 012.08	LOGGED BY: RBA
PROJ. MGR.: MAB	EDITED BY:
DRILLING CONTRACTOR: S+P	
DRILL RIG TYPE: B-61	
DRILLERS NAME: Tim Borer	
SAMPLING METHODS: 2.5" SS.	
HAMMER WT.: 300#	DROP: 30"
STARTED, TIME: 0830	DATE: 10/16/90
COMPLETED, TIME:	DATE:
BORING DEPTH (ft.)	
CASING DEPTH (ft.)	
WATER DEPTH (ft.)	
TIME:	
DATE:	
BACKFILLED, TIME:	DATE: BY:
SURFACE ELEV.:	DATUM:
CONDITIONS:	

SAMPLE DEPTH	SAMPLER TYPE	BLOWS/6-IN.	INCHES DRIVEN	INCHES RECOVERED	SAMPLE CONDITION	DRILLING RATE min/ft	OVM	%LEL	Sample #	DEPTH IN FEET	GRAPHIC LOG	
	2.5" SS	2 4	6 6	0 3						1		BROWN (7.5YR3/2) SANDY SILT (SM) loose, moist, silt w/ some fine grained sand trace gravel up to 2.5" ∅
		5	6	6	G		0	0	20-025A			
										2		
										3		
										4		
5'	2.5" SS.	8 15	6 6	3 6	G	N	0	0	20-025B	5	SP	BLACK (5YR2.5/1) GRAVELLY SAND (SP) med dense, moist, coarse sand with few gravel subrounded up to 2½" ∅
		15	6	6	OK				20-025C	6		
										7		
										8		
										9		
10'	2.5" SS	7	6	5	OK	N	3.1	0		10		BLACK (5YR2.5/1) GRAVELLY SAND (

FIELD LOG OF BORING (CONTINUED) SHEET 2 OF 3

PROJECT: 06214 02.08 | NO. | BORING NO. 20-02

Elmendorf

DEPTH	TYPE	BLOWS	DRIVEN	REC'VD.	COND.	B-RATE Bpf/ft	OVM	%LEL	Sample #	DEPTH	GRAPHIC LOG	
1°	2.5" SS	19	6	6	G	0	3.1	0	20-025D	1	SP	med. dense, moist, coarse subrounded sand
		31	6	6	G				20-025E			with some gravel up to 1½" Ø
										2		
										3		
										4		
										15		
15°	2.5" SS	9	6	2				1				BLACK (5YR 2.5/1) to 15' then VERY DARK GRAYISH
		20	6	6	G	N	0		20-025F	6		BROWN (10YR 3/2) GRAVELLY SAND (SP)
		23	6	6	G				20-025G			med. dense, moist, coarse sand with
										7		some gravel to 15' then Few gravel
										8		
										9		
20°	2.5" SS	15	6	6	G			1	20-025H	20		
		27	6	6	G	N	0		20-025J		GP	VERY DARK GRAYISH BROWN (10YR 3/2) SANDY
		35	6	4	Rock					1		GRAVEL (GP) med dense, moist, gravel
												subrounded to subangular up to 2" Ø; little coarse sand
										2		
										3		Water table (sounded after drilling to 32')
										4		~~Water table (water on inner shell rod)~~
25°	2.5" SS	30	6	6	G			1	20-025K	25		
		32	6	6	G	Y	28		20-025L	6		DARK GRAY (10YR 4/1) SANDY GRAVEL (GP)
		32	6	4	NG.							dense, wet, gravel up to 3" Ø, subrounded
										7		with little sand. Top of 25° sample had slough
												that was uniform sand (1" on top of sample)
										8		
											GP	
										9		
30°	2.5" SS	7	6	5		Y		1		30	SP	BLACK (10YR 2/1) GRAVELLY SAND (SP)

FIELD LOG OF BORING (CONTINUED)

SHEET 3 OF 3

PROJECT: 06214 012 08 | NO. | BORING NO. 20-02

Elmendorf

DEPTH	TYPE	BLOWS	DRIVEN	REC'V'D.	COND.	DRAIE odor	OVM	%LEL	Sample #	DEPTH	GRAPHIC LOG	
30'	2.5" SS	13	6	6	G	Y	141	1	20-080SM	1	SP	med. dense, wet, sand coarse with some gravel up to 2" ø, 3" slough on top of top sample (30'-30.5') uniform sand.
		16	6	5	OK				80-085N	2		
										3		END HOLE at 32' getting upheave at 30' (inner rod 3' higher than when pulled to drive SS)
										4		
										5		Product layer D.8' thick.
										6		
										7		
										8		
										9		
										0		
										1		
										2		
										3		
										4		
										5		
										6		
										7		
										8		
										9		
										0		

FIELD WELL COMPLETION FORM

JOB NAME: Elmendorf

JOB NUMBER: 06214 012 08 | PROJECT MANAGER: MAB

LOGGED BY: RBA | EDITED BY:

WELL NAME: ST20 -02 | DATE: 10/16/90

DRILLING COMPANY: S+P

EQUIPMENT: ☒ 10 INCH HOLLOW STEM AUGER | DRILLER: Borer

☐ ____ INCH ROTARY WASH | HOURS DRILLED: 5

GALLONS OF WATER USED DURING DRILLING: ____ GALLONS

METHOD OF DECONTAMINATION PRIOR TO DRILLING: Steam cleaning

DEVELOPMENT

METHOD OF DEVELOPMENT:

DEVELOPMENT BEGAN DATE: ____ TIME: ____

YIELD: ____ GPM	TIME: FROM ____ TO ____	DATE:
YIELD: ____ GPM	TIME: FROM ____ TO ____	DATE:
YIELD: ____ GPM	TIME: FROM ____ TO ____	DATE:
YIELD: ____ GPM	TIME: FROM ____ TO ____	DATE:

TOTAL WATER REMOVED DURING DEVELOPMENT: ____ GALLONS

DESCRIPTION OF TURBIDITY AT END OF DEVELOPMENT: ☐ CLEAR ☐ SLIGHTLY CLOUDY ☐ MOD. TURBID ☐ VERY MUDDY

ODOR OF WATER:

WATER DISCHARGED TO: ☐ GROUND SURFACE ☐ TANK TRUCK ☐ STORM SEWERS ☐ STORAGE TANK ☐ DRUMS ☐ OTHER ____

DEPTH TO WATER AFTER DEVELOPMENT: ____ FEET

MATERIALS USED

4 SACKS OF CO 8-12 SAND

____ SACKS OF ____ CEMENT

____ GALLONS OF GROUT USED

____ SACKS OF POWDERED BENTONITE

50 POUNDS OF BENTONITE PELLETS

20 FEET OF 4 INCH PVC BLANK CASING

~~40~~ FEET OF 4 INCH PVC SLOTTED SCREEN

10 FEET OF 4 INCH STEEL CONDUCTOR CASING

____ YARD^3 CEMENT-SAND (REDI-MIX) ORDERED

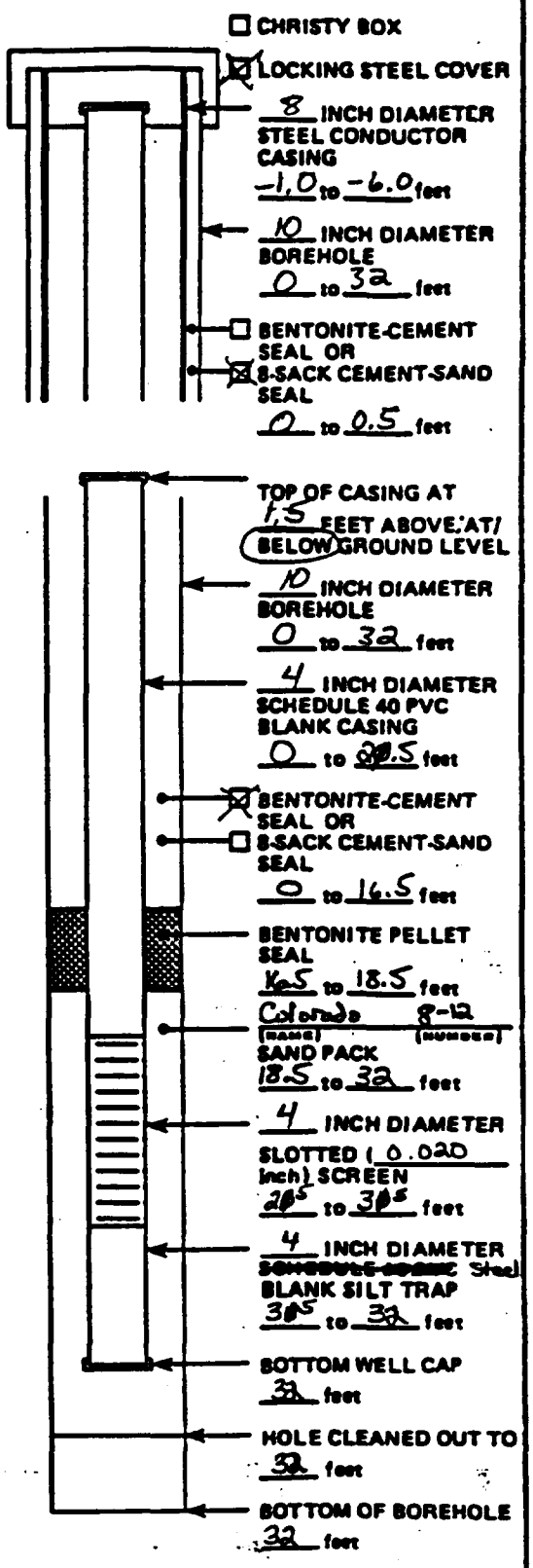
____ YARD^3 CEMENT-SAND (REDI-MIX) USED

CONCRETE PUMPER USED? ☒ NO ☐ YES

NAME ____

WELL COVER USED: ☒ LOCKING STEEL COVER ☐ CHRISTY BOX ☐ OTHER ____

SILT TRAP USED? ☐ NO ☒ YES

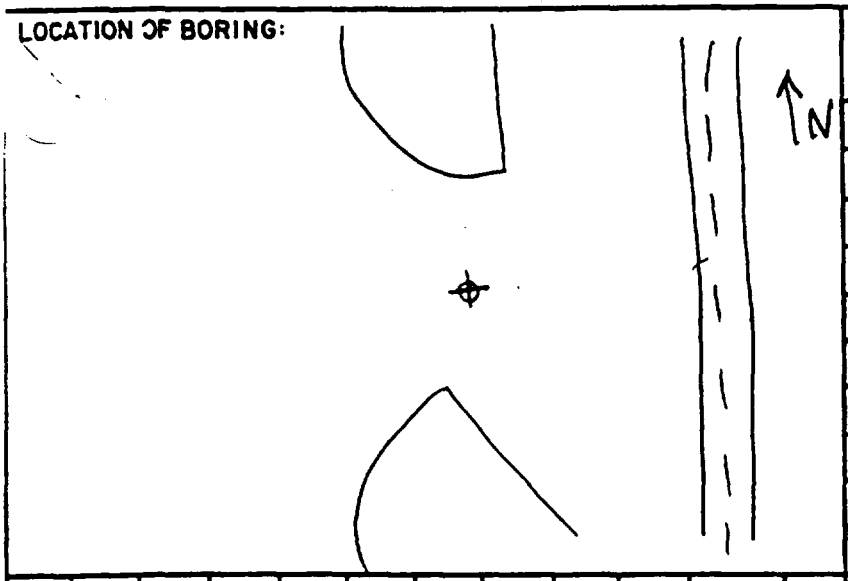


NOT TO SCALE

ADDITIONAL INFORMATION: ____

FIELD LOG OF BORING SHEET 1 OF 3

LOCATION OF BORING:



PROJECT: Elmendorf AFB AK | BORING NO. 20-03 | TOTAL DEPTH: 30'

JOB NO.: 0214 012.08 | LOGGED BY: RBA

PROJ. MGR.: MAB | EDITED BY:

DRILLING CONTRACTOR: S+P

DRILL RIG TYPE: B-61

DRILLERS NAME: Tim Borer

SAMPLING METHODS: 2.5" S.S.

HAMMER WT.: 300 # | DROP: 30"

STARTED, TIME: 1515 | DATE: 10/17/90

COMPLETED, TIME: 1000 | DATE: 10/18/90

BORING DEPTH (ft.)	30		
CASING DEPTH (ft.)	30		
WATER DEPTH (ft.)	22		
TIME:	1200		
DATE:	10/18/90		

BACKFILLED, TIME: 1200 DATE: 10/18/90 BY: S+P

SURFACE ELEV.: | DATUM:

CONDITIONS: between 2 baseball fields

SAMPLE DEPTH	SAMPLER TYPE/Time	BLOWS/6-IN.	INCHES DRIVEN	INCHES RECOVERED	SAMPLE CONDITION	~~DRILLING RATE 6min/ft~~ 02or	OVM	% LEL	Sample #	DEPTH IN FEET	GRAPHIC LOG
	7.5" SS	5	6	1	I						
		10	6	6	G	N	0	1	20-03A	1	
	1530	12	6	6	G				20-03B		
										2	
											SP
										3	
										4	
								Lab			
5'	2.5" SS	6	6	0	—			1		5	
		5	6	4	N.G.	N	1.7		20-03C		
	1545	6	6	6	G				20-03D	6	
										7	ML
										8	
										9	
10'	2.5" SS	10	6	2	—	N	1.1	1		10	GP

DARK BROWN (7.5YR 3/2) GRAVELLY SAND (SP) med dense, moist, fine sand with few gravel up to 1" ø, ½" layer grass with little organics down to 3"

DARK YELLOWISH BROWN (10YR3/4) GRAVELLY SAN (SP) DOWN TO 6' SANDY SILT (ML) to 6'

med dense, moist, coarse sand with few gravel up to 1" ø, below 6' turned into silt with few sand and trace gravel.

VERY DARK GRAYISH BROWN (10YR3/2)

FIELD LOG OF BORING (CONTINUED) SHEET 2 OF 3

PROJECT: 06214 012 08 | NO. | BORING NO. 20-03

Elmendorf

DEPTH	TYPE/time	BLOWS	DRIVEN	REC'D	COND.	D.RATE Odor	OVM	%LEL	Sample #	DEPTH	GRAPHIC LOG	
10'	2.5" SS	14	6	6	G	N	1.1	1	20-03E	11	GP	GRAVEL (GP) med dense, moist, gravel up to 1½" ø subrounded with some coarse sand
	1610	22	6	3	N.G.							
										2		
										3		
										4		
										15		
15'	2.5" SS	14	6	3	—			1				VERY DARK GRAYISH BROWN (10YR3/2) SANDY GRAVEL (GP) dense, wet, gravel up to 2½" ø subrounded with some sand, maybe not saturated (will wait until tomorrow am to check for water) 1700 h now.
		27	6	6	G	N	1.1		20-03F	6		
	1633	33	6	5	OK				20-03G			
										7		
										8		
										9		10/18/90
											GP	
20'	2.5" SS	14	6	5				1		20		VERY DARK GRAYISH BROWN (10YR3/2) SANDY GRAVEL (GP) dense, wet, gravel up to 2½", with some sand, not completely saturated
		32	6	6	G	N	0		20-03H			
	0830	28	6	6	G				20-03J	1		
												▽ no water in hole after sounding
										2		
										3		
										4		
25'	25" S.S 0918	13	6	3				1		25	SP	VERY DARK GRAY (2.5Y 3/0) SAND (SP) dense, wet, uniform fine sand down to 26' then gravelly sand, sand with few gravel up to 1" ø
		21	6	6	G	Y	54		20-03K	6		
		27	6	5.5	OK				20-03L		SP	
										7		
										8		
										9		
												OVM froze up couldn't reset or recalibr
30'	2.5" SS	7	6	3	—	Y	—	1		30	GP	VERY DARK GRAY (2.5Y 3/0) SANDY GRAVE

Lab

FIELD LOG OF BORING (CONTINUED)

SHEET 3 OF 3

PROJECT: 062H012.08 | NO. | BORING NO. 20-03

Elmendorf AFB AK

DEPTH	TYPE	BLOWS	DRIVEN	REC'V'D.	COND.	DRAGE odor	OVM	%LEL	Sample #	DEPTH	GRAPHIC LOG	
30	25"	17	6	6	G	Y	?	1	20-03M	31	GP	dense, wet, gravel up to 1½" Ø, subrounded
	0950	23	6	5.5	Ok				20-03N			with little coarse sand
										2		
												END HOLE 30' SS to 31.5'
										3		
										4		
										35		
										6		
										7		
										8		
										9		
										0		
										1		
										2		
										3		
										4		
										5		
										6		
										7		
										8		
										9		
										0		

FIELD WELL COMPLETION FORM

JOB NAME: Elmendorf AFB AK

JOB NUMBER: 06214 012. 08 | PROJECT MANAGER: MAB

LOGGED BY: RBA | EDITED BY:

WELL NAME: ST20-03 | DATE: 10/18/90

DRILLING COMPANY: STP

EQUIPMENT: ☒ 10 INCH HOLLOW STEM AUGER | DRILLER: Borer

☐ _____ INCH ROTARY WASH | HOURS DRILLED: 4

GALLONS OF WATER USED DURING DRILLING: _____ GALLONS

METHOD OF DECONTAMINATION PRIOR TO DRILLING: Steam cleaned

DEVELOPMENT

METHOD OF DEVELOPMENT:

DEVELOPMENT BEGAN DATE: TIME:

YIELD: _____ GPM	TIME: FROM	TO	DATE:
YIELD: _____ GPM	TIME: FROM	TO	DATE:
YIELD: _____ GPM	TIME: FROM	TO	DATE:
YIELD: _____ GPM	TIME: FROM	TO	DATE:

TOTAL WATER REMOVED DURING DEVELOPMENT: _____ GALLONS

DESCRIPTION OF TURBIDITY AT END OF DEVELOPMENT: ☐ CLEAR ☐ SLIGHTLY CLOUDY ☐ MOD. TURBID ☐ VERY MUDDY

ODOR OF WATER:

WATER DISCHARGED TO: ☐ GROUND SURFACE ☐ TANK TRUCK ☐ STORM SEWERS ☐ STORAGE TANK ☐ DRUMS ☐ OTHER _____

DEPTH TO WATER AFTER DEVELOPMENT: _____ FEET

MATERIALS USED

_____ SACKS OF _____ SAND

_____ SACKS OF _____ CEMENT

_____ GALLONS OF GROUT USED

_____ SACKS OF POWDERED BENTONITE

_____ POUNDS OF BENTONITE PELLETS

_____ FEET OF ____ INCH PVC BLANK CASING

_____ FEET OF ____ INCH PVC SLOTTED SCREEN

_____ FEET OF ____ INCH STEEL CONDUCTOR CASING

_____ YARD^3 CEMENT-SAND (REDI-MIX) ORDERED

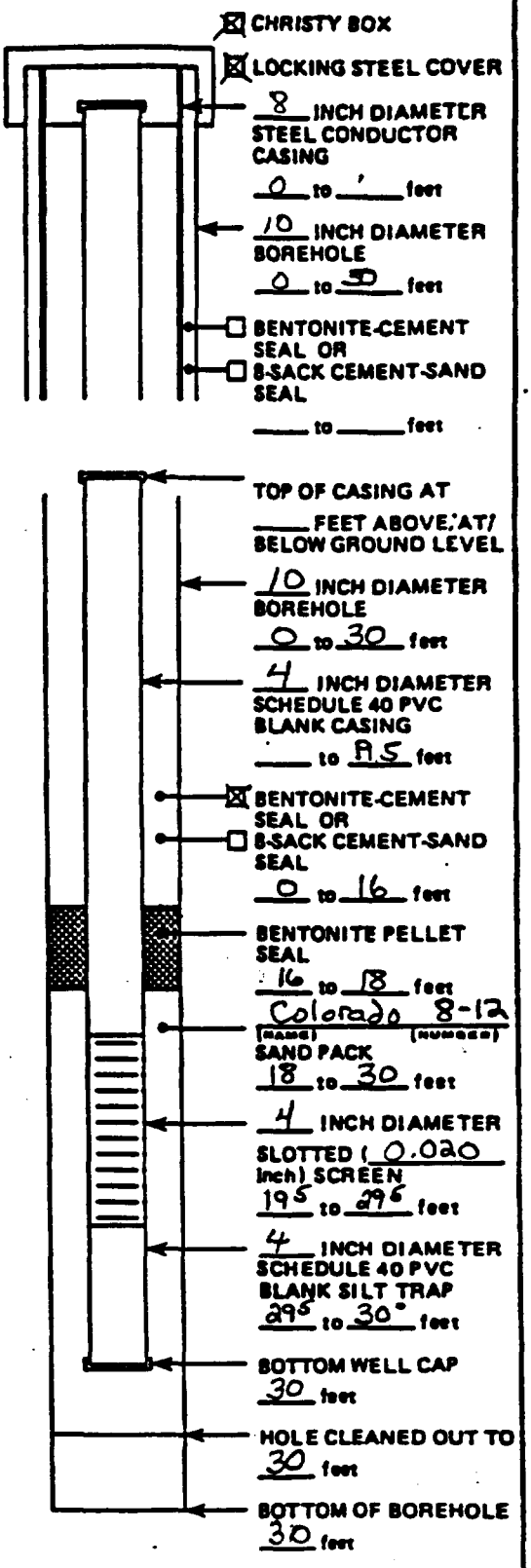
_____ YARD^3 CEMENT-SAND (REDI-MIX) USED

CONCRETE PUMPER USED? ☐ NO ☐ YES

NAME _____

WELL COVER USED: ☐ LOCKING STEEL COVER ☐ CHRISTY BOX ☐ OTHER _____

SILT TRAP USED? ☐ NO ☐ YES

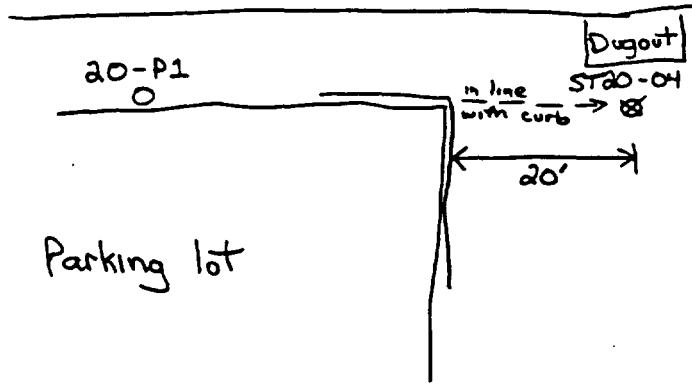


NOT TO SCALE

ADDITIONAL INFORMATION: cut 6" off top of casing to get it below grade

FIELD LOG OF BORING SHEET 1 OF 3

LOCATION OF BORING: Baseball Field



PROJECT: Elmendorf	BORING NO. 20-04
	TOTAL DEPTH: 30'
JOB NO.: 06214 012.08	LOGGED BY: RBA
PROJ. MGR.: MAB	EDITED BY:
DRILLING CONTRACTOR: SFP	
DRILL RIG TYPE: B-61	
DRILLERS NAME: Tim Borer	
SAMPLING METHODS: 2.5" S.S	
HAMMER WT.: 300#	DROP: 30"
STARTED, TIME: 0930	DATE: 10/22/90
COMPLETED, TIME: 1300	DATE: 10/22/90

BORING DEPTH (ft.)	30'		
CASING DEPTH (ft.)	30'		
WATER DEPTH (ft.)	22.5'		
TIME:	1150		
DATE:	10/22/90		

BACKFILLED, TIME: DATE: BY:

SURFACE ELEV.: DATUM:

CONDITIONS:

SAMPLE DEPTH	SAMPLER TYPE/Time	BLOWS/6-IN.	INCHES DRIVEN	INCHES RECOVERED	SAMPLE CONDITION	DRILLING RATE (min/ft) odor	OVM	% LEL	Sample #	DEPTH IN FEET	GRAPHIC LOG
	2.5" SS	9 8	6 6	0 6	1 G	N	0	1	20-04A	1	
	1010	9	6	6	G				20-04B	2	GP
						To Lab				3	
										4	
5'	2.5" SS	5 6	6 6	0 0.5	1 1	N	0	1		5	
	1030	8	6	6	G				20-04C	6	
										7	
										8	
										9	
										10	GP

VERY DARK GRAYISH BROWN (10YR 3/2) SANDY GRAVEL (GP) med dense, moist, gravel upto 2" Ø subrounded with some coarse sand frost down 7"

VERY DARK GRAYISH BROWN (10YR3/2) SANDY GRAVEL (GP) med dense, very moist, gravel subrounded up to 3" Ø with some sand mostly coarse grained and few silt.

Pipe somewhere nearby 8-10' down so augered slowly and didn't sample @ 10'

GP cuttings smaller max size

FIELD LOG OF BORING (CONTINUED) SHEET 2 OF 3

PROJECT: 06214 012.08 | NO. | BORING NO. 20-04

Elmendorf

DEPTH	TYPE	BLOWS	DRIVEN	REC'VD.	COND.	D. ODOR	OVH	% LEL	Sample #	DEPTH	GRAPHIC LOG	
										11	GP	
										2		
										3		
										4		
15°	2.5" SS	13 25	6 6	3 6	— G	N	0	1	20-04D	15 6		VERY DARK GRAY (10YR3/1) SANDY GRAVEL (GP) dense, moist, poorly graded gravel up to 2" ø with some sand (coarse sand)
	1110	30	6	6	OK				20-04E			
										7		
										8		
										9		
20°	2.5" SS	20 20	6 6	4 6	N.G. G	N	0		20-04F	20 1	GP	VERY DARK GRAY (10YR3/1) SANDY GRAVEL (GP) dense, moist, poorly graded gravel up to 2" ø with some coarse sand, bottom of 21°-21.5 sample had much angular gravel (maybe broken while driving S.S.
	1135	30	6	5	OK				20-04G			
						To Lab				2	▽	
										3		
										4		
25°	2.5" SS	7 19	6 6	1 6	G	N	0	1	20-04H	25 6	SP	BLACK (10YR 2/1) GRAVELLY SAND (SP) dense, wet, coarse sand rounded with little gravel, rounded up to 3/4" ø
	1215	18	6	6	G				20-04J			
										7		
										8		
										9		
30°	2.5" SS	6	6	3	—	Y	132	1		30	SP	BLACK (10YR2/1) GRAVELLY SAND (SP)

FIELD LOG OF BORING (CONTINUED)

SHEET 3 OF 3

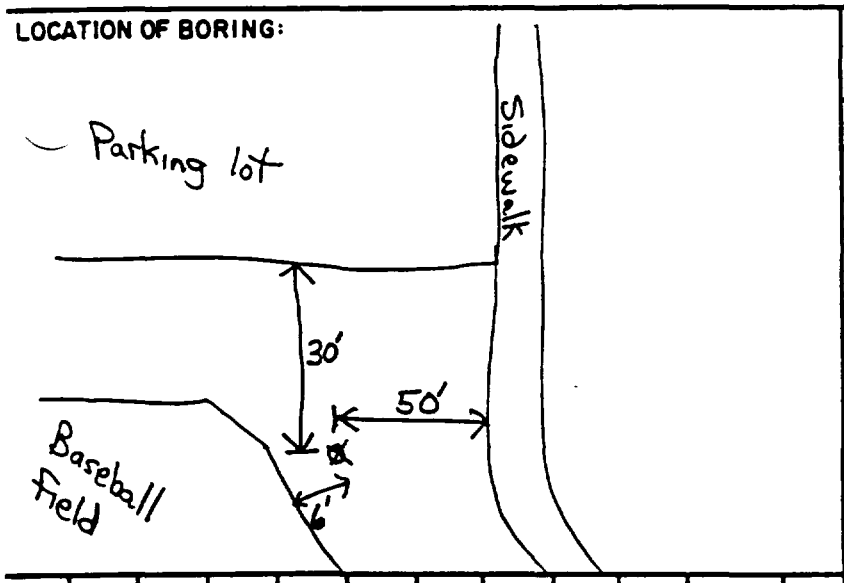
PROJECT: 06214 012.08 | NO. | BORING NO. B20-04

Elmendorf

DEPTH	TYPE	BLOWS	DRIVEN	REC'VD.	COND.	D.RAFE Odor	OVM	%LEL	Sample #	DEPTH	GRAPHIC LOG	
1°	8 in SS	9	6	6	G	Y	132	1	B20-04K	31	SP	med dense, wet, coarse sand with little gravel up to ½" ø
	1245	13	6	6	OK				B20-04L			
										2		
										3		
										4		
										35		
										6		
										7		
										8		
										9		
										0		
										1		
										2		
										3		
										4		
										5		
										6		
										7		
										8		
										9		
										0		

FIELD LOG OF BORING SHEET 1 OF 3

LOCATION OF BORING:



PROJECT: Elmendorf	BORING NO. 20-05
	TOTAL DEPTH:
JOB NO.: 06214,012.08	LOGGED BY: RBA
PROJ. MGR.: MAB	EDITED BY:
DRILLING CONTRACTOR: S+P	
DRILL RIG TYPE: B-61	
DRILLERS NAME: Tim Borer	
SAMPLING METHODS: 2.5" SS	
HAMMER WT.: 300 #	DROP: 30"
STARTED, TIME: 1700	DATE: 10/22/90
COMPLETED, TIME: 1040	DATE: 10/23/90
BORING DEPTH (ft.) 30'	
CASING DEPTH (ft.) 30'	
WATER DEPTH (ft.) 21.7'	
TIME: 0945	
DATE: 10/23/90	
BACKFILLED, TIME:	DATE: BY:
SURFACE ELEV.:	DATUM:
CONDITIONS: off edge of parking lot near ball fi	

SAMPLE DEPTH	SAMPLER TYPE / time	BLOWS/6-IN.	INCHES DRIVEN	INCHES RECOVERED	SAMPLE CONDITION	~~DRILLING RATE min/ft~~ ODC	OVM	% LEL	Sample #	DEPTH IN FEET	GRAPHIC LOG	
	2.5" SS	5	6	1	1			1				VERY DARK GRAYISH BROWN (10YR 3/2) GRAVELLY SAND
	SS	7	6	6	G	N	0		20-05A			med dense, moist, sand with little gravel up
	1700	8	6	6	G				20-05B	1		to 3" Ø and few silt
							To Lab			2		
										3		
										4	SP	
5°	2.5"	2	6	0	1			1		5		VERY DARK GRAYISH BROWN (10YR3/2) GRAVELLY SA
	SS	3	6	2	1	N	0					(SP), loose, moist, sand with little grav
	1720	3	6	6	G				20-05C	6		up to 2" Ø, few silt
										7		
										8		
										9		
10°	2.5" SS	10	6	2	—	N	0	1		10		VERY DARK GRAYISH BROWN (2.5Y 3/2) GRAVE

FIELD LOG OF BORING (CONTINUED) SHEET 2 OF 3

PROJECT: 06214 012.08 | NO. | BORING NO. 20-05

Elmendorf

DEPTH	TYPE	BLOWS	DRIVEN	REC'VD	COND.	B-RATE ODOR	OVM	%LEL	Sample #	DEPTH	GRAPHIC LOG	
0°	2.5" SS	16	6	6	G	N	0	1	20-05D	11	SP	SAND (SP) dense, moist, coarse sand with little gravel up to 2" Ø, little silt
	0840	23	6	6	G				20-05E			
										2		
										3	SP	13' cutting size got smaller ½" Ø gravel higher moisture content, easier drilling
										4		
15°	2.5' SS	29	6	6	G			1		15	SP	VERY DARK GRAYISH BROWN (2.5Y 3/2) GRAVELLY SAND (SP) very dense, moist sand with some gravel up to 2½" Ø
		61	6	6	G	N	O		20-05F			
	0900	52	6	6	G				20-05G	6		
										7		smaller gravel ½" Ø max, easy drilling
										8	SP	
										9		
20°	2.5' SS	9	6	2	—			1		20		DARK GRAYISH BROWN (2.5Y 4/2) GRAVELLY SAND (SP) very dense, moist, coarse sand with some gravel up to 1" Ø
		38	6	6	G	N	O		20-05H			
	0925	32	6	6	G				20-05J	1	SP	
										2	▽	Water at 21.7'
						Toolo						
										3		
										4		
25°	2.5" SS	12	6	3	—			1		25		BLACK (5Y 2.5/1) GRAVELLY SAND (SP) very dense, wet, coarse sand with some gravel up to 1" Ø decreasing to trace gravel at top of sample
		29	6	6	G	N	O		20-05K			
	0950	32	6	5	OK				20-05L	6		
										7	SP	
										8		
										9		
30°	2.5" SS	4	6	1	—	N	O	1		30	SP	BLACK (5Y 2.5/1) SANDY GRAVEL (GP)

FIELD LOG OF BORING (CONTINUED) SHEET 3 OF 3

PROJECT: 06214 012.08 | NO. | BORING NO. 20-05

Elmendorf

DEPTH	TYPE	BLOWS	DRIVEN	REC'VD	COND.	~~B-RATE~~ color	OVM	% LEL	Sample #	DEPTH	GRAPHIC LOG	
30'	2.5" SS	15	6	6	G	N	0	1	20-05SH	31		med dense, wet, subrounded gravel up to 1½"
	1000	30	6	4	NG ↑ brass liner bent				20-05N		GP	ø with little coarse sand
										2		
										3		
										4		
										35		
										6		
										7		
										8		
										9		
										0		
										1		
										2		
										3		
										4		
										5		
										6		
										7		
										8		
										9		
										0		

FIELD WELL COMPLETION FORM

JOB NAME: Elmendorf AFB AK

JOB NUMBER: 06214 012.08 | PROJECT MANAGER: MAB

LOGGED BY: RBA | EDITED BY:

WELL NAME: ST20-05 | DATE: 10/23/90

DRILLING COMPANY: S+P

EQUIPMENT: ☒ 10 INCH HOLLOW STEM AUGER ☐ ____ INCH ROTARY WASH | DRILLER: Borer | HOURS DRILLED: 4

GALLONS OF WATER USED DURING DRILLING: GALLONS

METHOD OF DECONTAMINATION PRIOR TO DRILLING: Steam cleaned

DEVELOPMENT

METHOD OF DEVELOPMENT:

DEVELOPMENT BEGAN DATE: TIME:

YIELD: GPM	TIME: FROM	TO	DATE:
YIELD: GPM	TIME: FROM	TO	DATE:
YIELD: GPM	TIME: FROM	TO	DATE:
YIELD: GPM	TIME: FROM	TO	DATE:

TOTAL WATER REMOVED DURING DEVELOPMENT: GALLONS

DESCRIPTION OF TURBIDITY AT END OF DEVELOPMENT: ☐ CLEAR ☐ SLIGHTLY CLOUDY ☒ MOD. TURBID ☐ VERY MUDDY

ODOR OF WATER:

WATER DISCHARGED TO: ☐ GROUND SURFACE ☐ TANK TRUCK ☐ STORM SEWERS ☐ STORAGE TANK ☐ DRUMS ☐ OTHER ____

DEPTH TO WATER AFTER DEVELOPMENT: FEET

MATERIALS USED

3 SACKS OF Colorado 8-12 SAND

____ SACKS OF ____ CEMENT

____ GALLONS OF GROUT USED

____ SACKS OF POWDERED BENTONITE

50 POUNDS OF BENTONITE PELLETS

20 FEET OF 4 INCH PVC BLANK CASING

10 FEET OF 4 INCH PVC SLOTTED SCREEN

____ FEET OF ____ INCH STEEL CONDUCTOR CASING

____ YARD^3 CEMENT-SAND (REDI-MIX) ORDERED

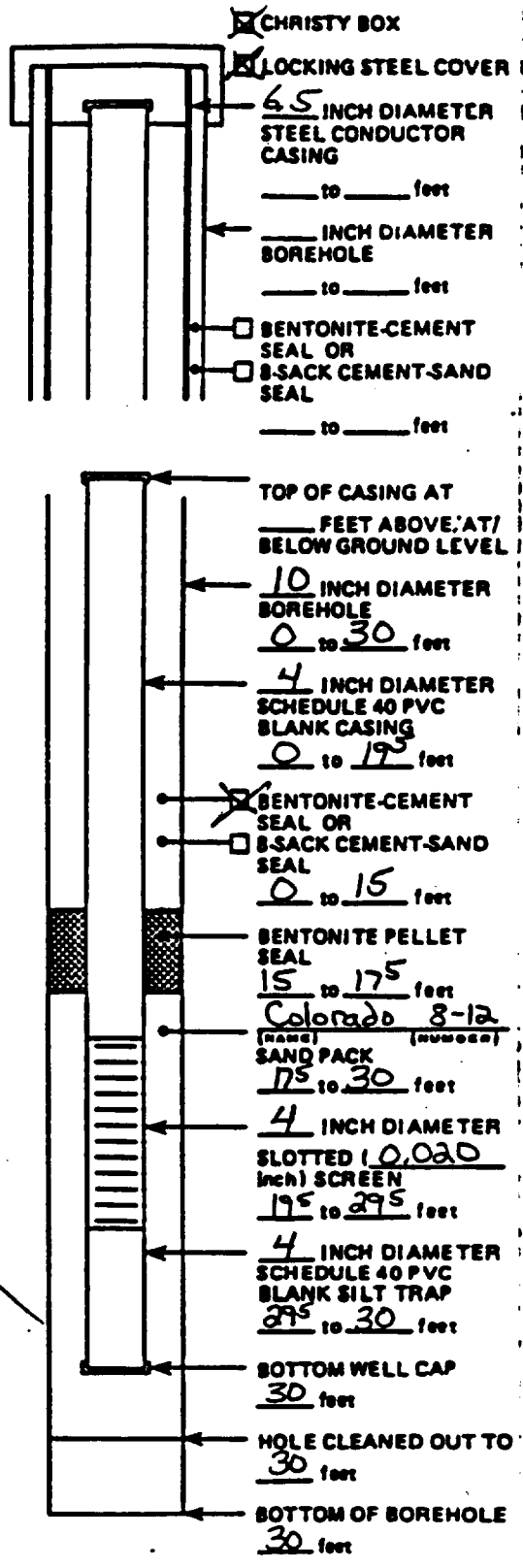
____ YARD^3 CEMENT-SAND (REDI-MIX) USED

CONCRETE PUMPER USED? ☒ NO ☐ YES

NAME ____

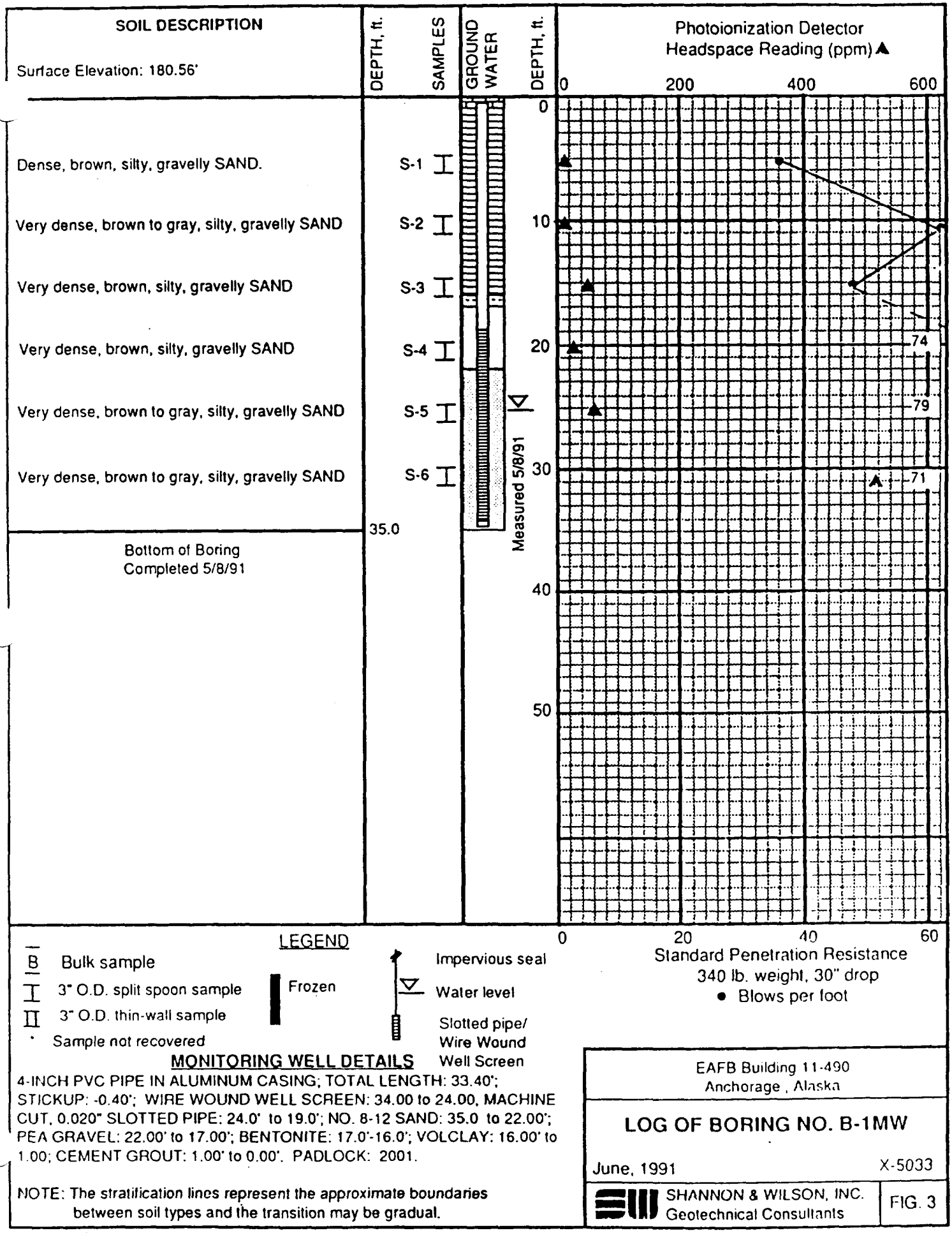
WELL COVER USED: ☒ LOCKING STEEL COVER ☒ CHRISTY BOX ☐ OTHER ____

SILT TRAP USED? ☐ NO ☒ YES



NOT TO SCALE

ADDITIONAL INFORMATION: ____



MONITORING WELL DETAILS

4-INCH PVC PIPE IN ALUMINUM CASING; TOTAL LENGTH: 33.40'; STICKUP: -0.40'; WIRE WOUND WELL SCREEN: 34.00 to 24.00, MACHINE CUT, 0.020" SLOTTED PIPE: 24.0' to 19.0'; NO. 8-12 SAND: 35.0 to 22.00'; PEA GRAVEL: 22.00' to 17.00'; BENTONITE: 17.0'-16.0'; VOLCLAY: 16.00' to 1.00; CEMENT GROUT: 1.00' to 0.00'. PADLOCK: 2001.

NOTE: The stratification lines represent the approximate boundaries between soil types and the transition may be gradual.

EAFB Building 11-490
Anchorage, Alaska

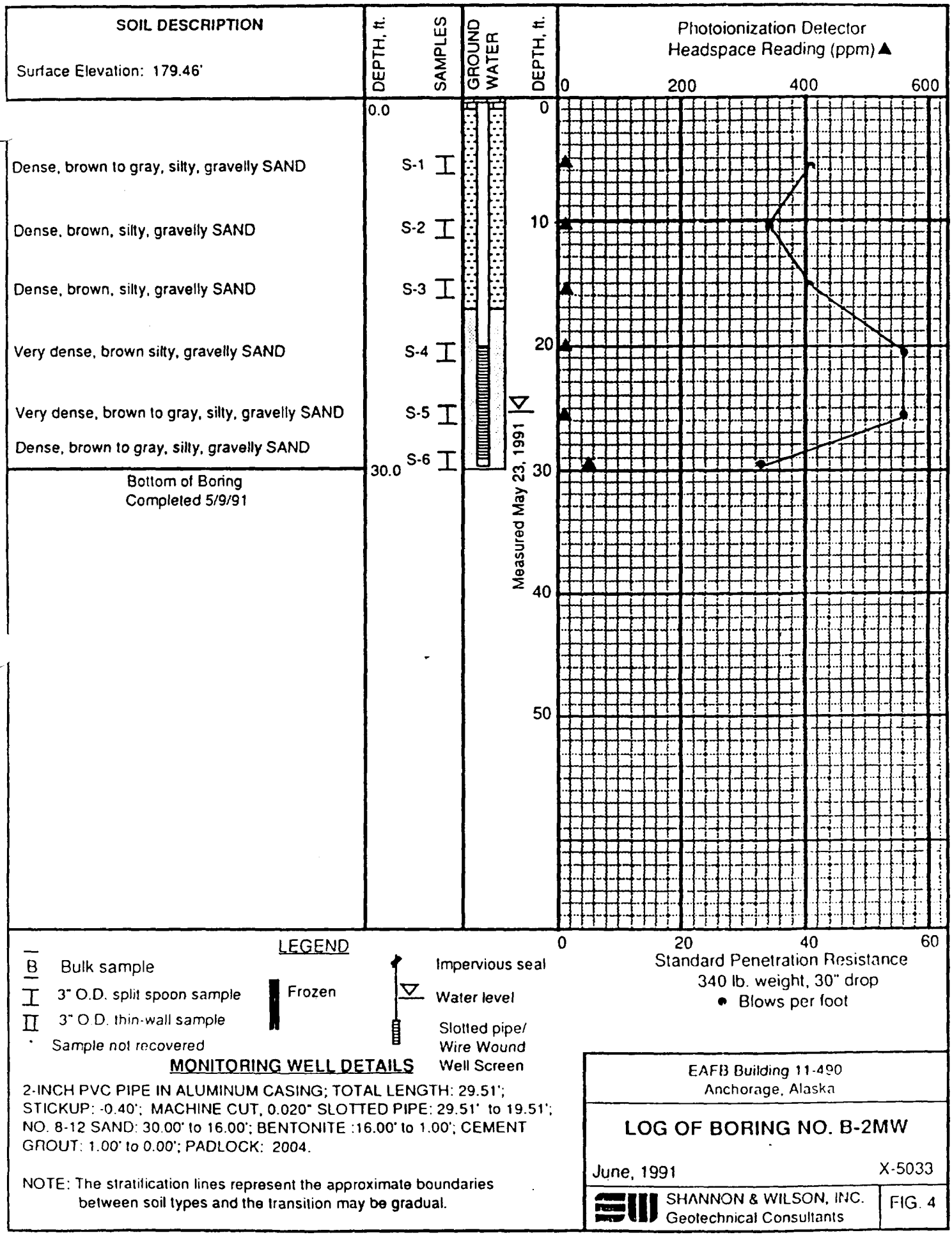
LOG OF BORING NO. B-1MW

June, 1991

X-5033

SHANNON & WILSON, INC.
Geotechnical Consultants

FIG. 3



MONITORING WELL DETAILS

2-INCH PVC PIPE IN ALUMINUM CASING; TOTAL LENGTH: 29.51'; STICKUP: -0.40'; MACHINE CUT, 0.020" SLOTTED PIPE: 29.51' to 19.51'; NO. 8-12 SAND: 30.00' to 16.00'; BENTONITE :16.00' to 1.00'; CEMENT GROUT: 1.00' to 0.00'; PADLOCK: 2004.

NOTE: The stratification lines represent the approximate boundaries between soil types and the transition may be gradual.

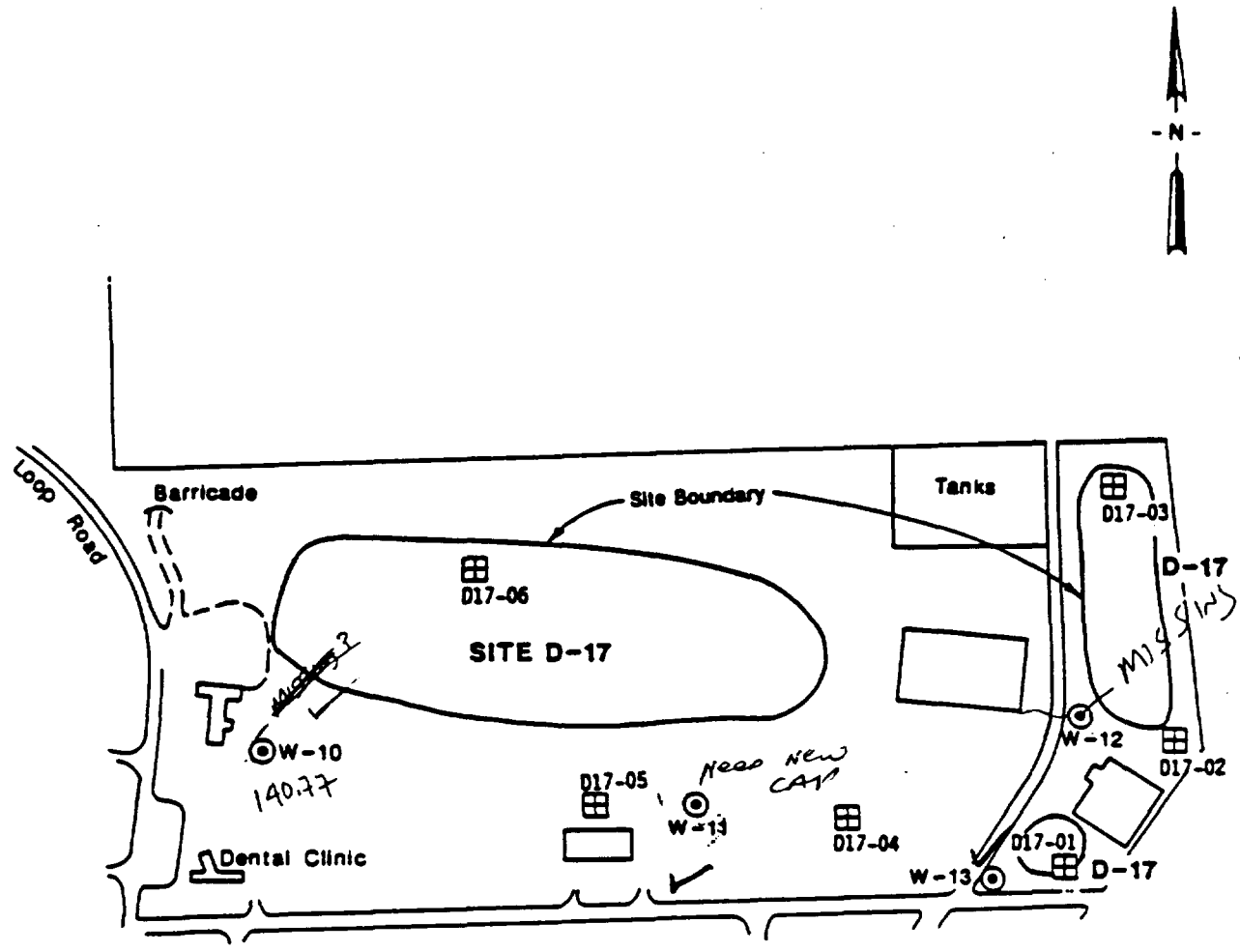
EAFB Building 11-490
Anchorage, Alaska

LOG OF BORING NO. B-2MW

June, 1991 X-5033

SHANNON & WILSON, INC.
Geotechnical Consultants

FIG. 4



Legend:

W-10 ◎ Monitoring Well Location, Phase II, Stage 1

⊞ D17-04 Stage 3 Borehole

LOCATION MAP
SITE D-17

IRP Stage 3 RI/FS Elmendorf AFB, AK	Figure 4.2.7.1

PIEZOMETER DETAIL INFORMATION SHEET

GROUND SURFACE ELEVATION _____

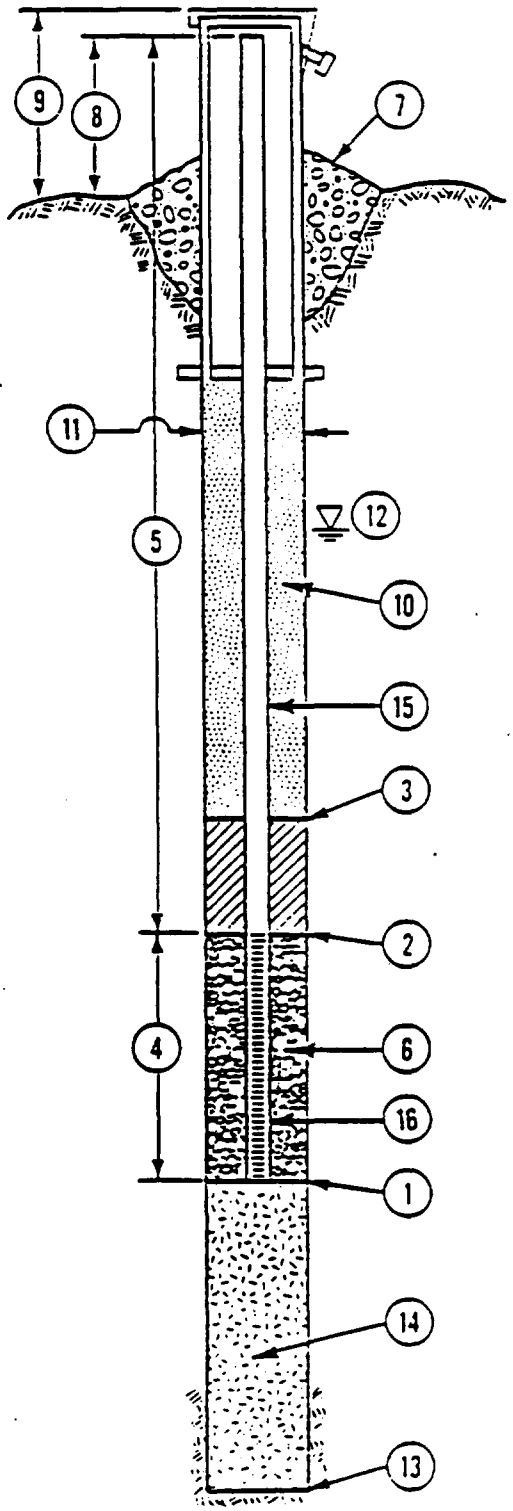
TOP OF WELL CASING ELEVATION 149.33

JOB NUMBER _____

BORING NUMBER W-10

DATE 6/18/F~

LOCATION Elmendorf



(1) DEPTH TO BOTTOM OF WELL POINT OR SLOTTED PIPE 30 FEET.*

(2) DEPTH TO BOTTOM OF SEAL (IF INSTALLED) 5 FEET.*

(3) DEPTH TO TOP OF SEAL (IF INSTALLED) 3 FEET.*

(4) LENGTH OF WELL SCREEN 25 FEET
SLOT SIZE .01

(5) TOTAL LENGTH OF PIPE 6 FEET AT 2 INCH DIAMETER.

(6) TYPE OF PACK AROUND WELL POINT OR SLOTTED PIPE natural sand

(7) CONCRETE CAP. (YES) NO (CIRCLE ONE)

(8) HEIGHT OF WELL CASING ABOVE GROUND 1.00 FEET.

(9) PROTECTIVE CASING? (YES) NO (CIRCLE ONE)
HEIGHT ABOVE GROUND 1.25 FEET.
LOCKING CAP? (YES) NO (CIRCLE ONE)

(10) TYPE OF UPPER BACKFILL cement

(11) BOREHOLE DIAMETER 8 INCHES.

(12) DEPTH TO GROUND WATER 10± FEET.*

(13) TOTAL DEPTH OF BOREHOLE 30 FEET.*

(14) TYPE OF LOWER BACKFILL none.

(15) PIPE MATERIAL PVC - Sched - 40

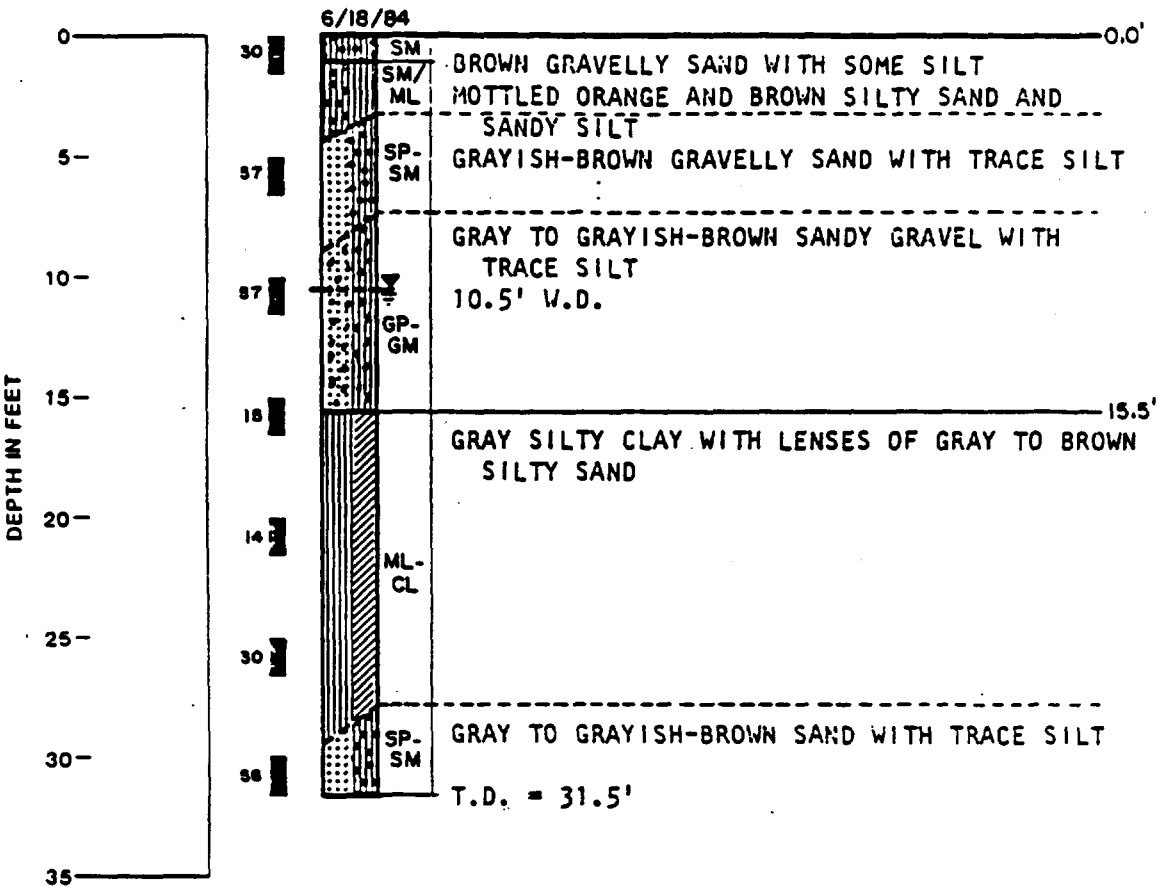
(16) SCREEN MATERIAL PVC - Sched - 40

*(DEPTH FROM GROUND SURFACE)

PIEZOMETER INSTALLATION DETAILS

Dames & Moore

ELMENDORF AFB
BORING W-10



LOG OF BORING

Dames & Moore

PLATE C-14

PIEZOMETER DETAIL INFORMATION SHEET

GROUND SURFACE ELEVATION —

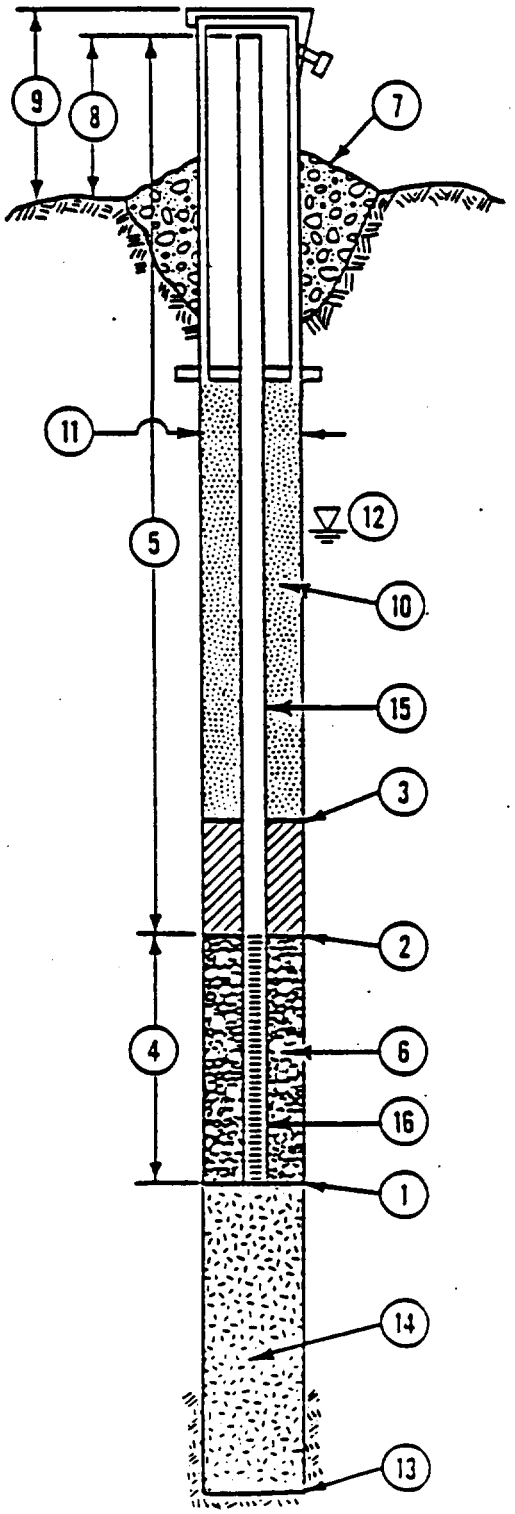
TOP OF WELL CASING ELEVATION —

JOB NUMBER 1016-200

BORING NUMBER W-11

DATE 6/14/84

LOCATION Elmendorf



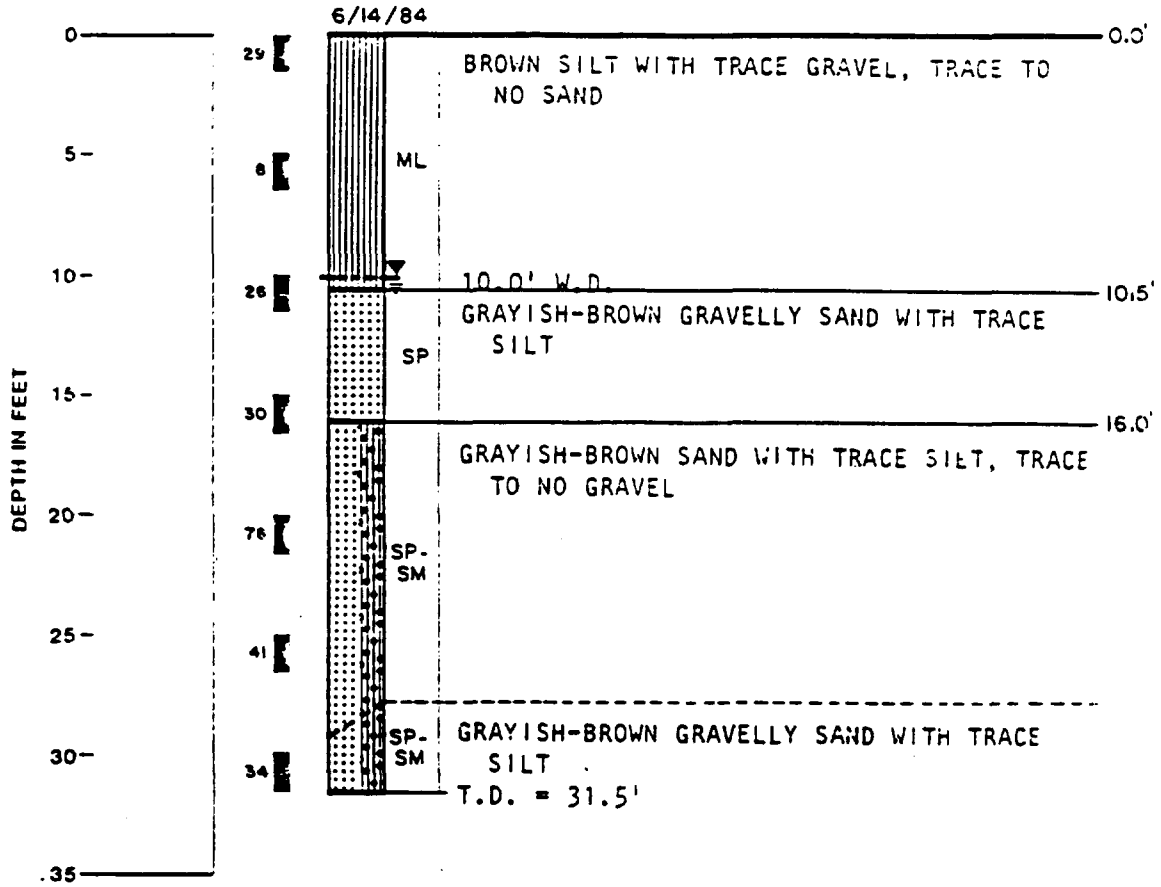
1. DEPTH TO BOTTOM OF WELL POINT OR SLOTTED PIPE 30 FEET.*
2. DEPTH TO BOTTOM OF SEAL (IF INSTALLED) 5 FEET.*
3. DEPTH TO TOP OF SEAL (IF INSTALLED) 1 FEET.*
4. LENGTH OF WELL SCREEN 25 FEET. SLOT SIZE .01.
5. TOTAL LENGTH OF PIPE 6 FEET AT 2 INCH DIAMETER.
6. TYPE OF PACK AROUND WELL POINT OR SLOTTED PIPE natural sands.
7. CONCRETE CAP. (YES) NO (CIRCLE ONE)
8. HEIGHT OF WELL CASING ABOVE GROUND 1 FEET.
9. PROTECTIVE CASING? (YES) NO (CIRCLE ONE)
   HEIGHT ABOVE GROUND 1.25 FEET.
   LOCKING CAP? (YES) NO (CIRCLE ONE)
10. TYPE OF UPPER BACKFILL cement
11. BOREHOLE DIAMETER 8 INCHES.
12. DEPTH TO GROUND WATER 10 FEET.*
13. TOTAL DEPTH OF BOREHOLE 30 FEET.*
14. TYPE OF LOWER BACKFILL none.
15. PIPE MATERIAL PVC.
16. SCREEN MATERIAL PVC.

*(DEPTH FROM GROUND SURFACE)

PIEZOMETER INSTALLATION DETAILS

Dames & Moore

ELMENDORF AFB
BORING W-11



LOG OF BORING

Dames & Moore

PLATE C-15

PIEZOMETER DETAIL INFORMATION SHEET

GROUND SURFACE ELEVATION —

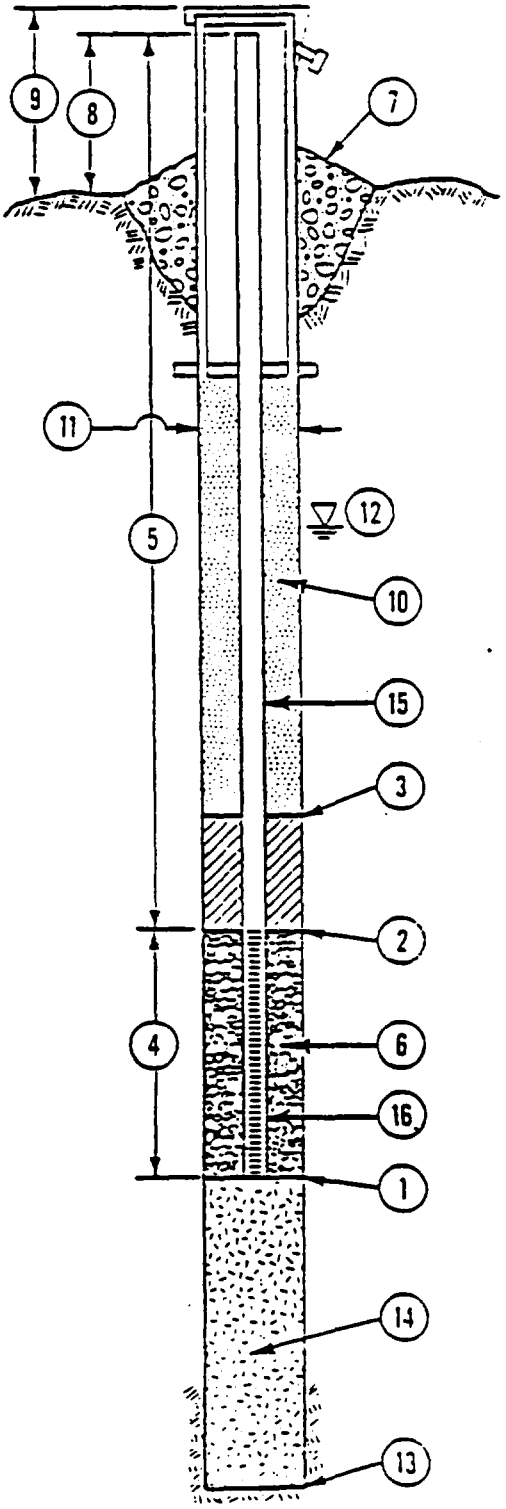
TOP OF WELL CASING ELEVATION —

JOB NUMBER 1016-204-200

BORING NUMBER W-12

DATE 6/15/84

LOCATION Elmendorf



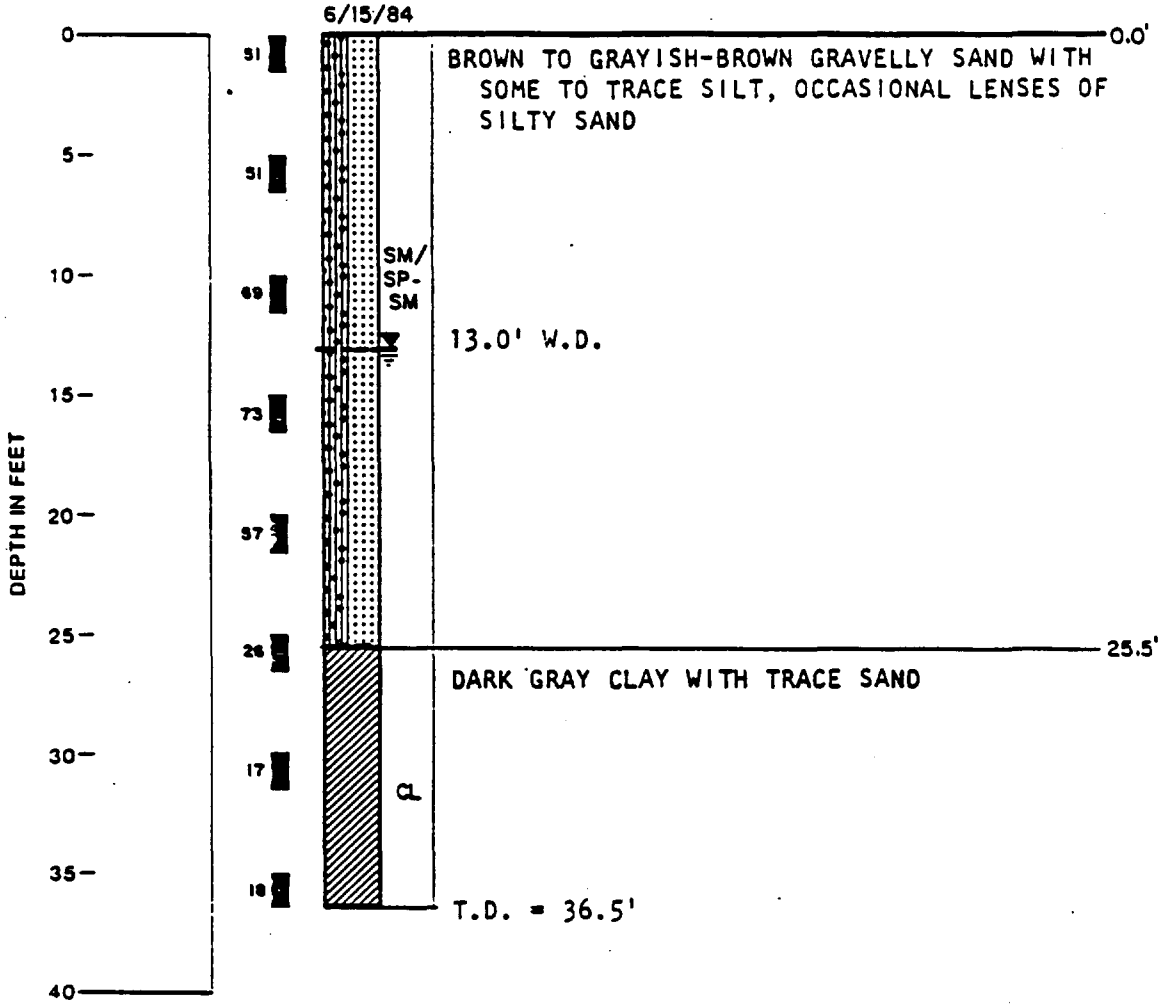
1. DEPTH TO BOTTOM OF WELL POINT OR SLOTTED PIPE 25 FEET.*
2. DEPTH TO BOTTOM OF SEAL (IF INSTALLED) 10 FEET.*
3. DEPTH TO TOP OF SEAL (IF INSTALLED) 5 FEET.*
4. LENGTH OF WELL SCREEN 25 FEET SLOT SIZE .01
5. TOTAL LENGTH OF PIPE 11 FEET AT 2 INCH DIAMETER.
6. TYPE OF PACK AROUND WELL POINT OR SLOTTED PIPE natural sand
7. CONCRETE CAP. (YES) NO (CIRCLE ONE)
8. HEIGHT OF WELL CASING ABOVE GROUND 1.25 FEET.
9. PROTECTIVE CASING? (YES) NO (CIRCLE ONE)
   HEIGHT ABOVE GROUND 2.5 FEET.
   LOCKING CAP? (YES) NO (CIRCLE ONE)
10. TYPE OF UPPER BACKFILL Cement
11. BOREHOLE DIAMETER 8 INCHES
12. DEPTH TO GROUND WATER 13 FEET.*
13. TOTAL DEPTH OF BOREHOLE 35 FEET.*
14. TYPE OF LOWER BACKFILL none ~~natural sand~~
15. PIPE MATERIAL PVC
16. SCREEN MATERIAL PVC

*(DEPTH FROM GROUND SURFACE)

PIEZOMETER INSTALLATION DETAILS

Dames & Moore

ELMENDORF AFB
BORING W-12



LOG OF BORING

Dames & Moore

PLATE C-16

PIEZOMETER DETAIL INFORMATION SHEET

GROUND SURFACE ELEVATION _____

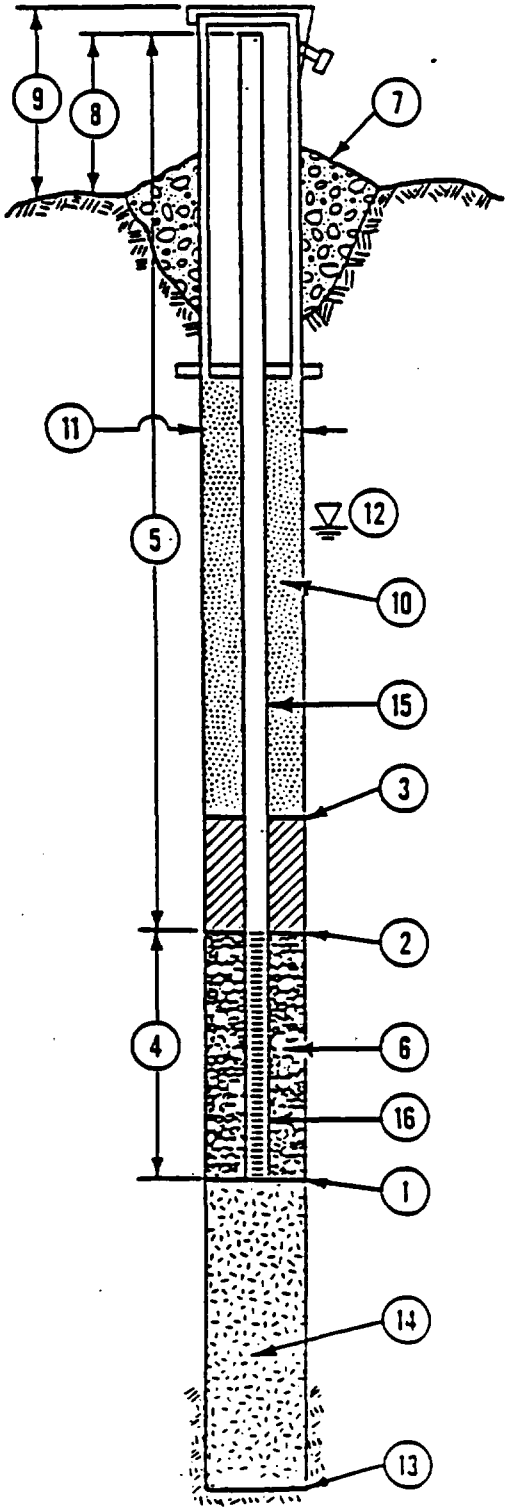
TOP OF WELL CASING ELEVATION _____

JOB NUMBER 1016-200-204

BORING NUMBER W-17

DATE 6/15/64

LOCATION Elmendorf



(1) DEPTH TO BOTTOM OF WELL POINT OR SLOTTED PIPE 25 FEET.*

(2) DEPTH TO BOTTOM OF SEAL (IF INSTALLED) 10 FEET.*

(3) DEPTH TO TOP OF SEAL (IF INSTALLED) 5 FEET.*

(4) LENGTH OF WELL SCREEN 15 FEET.
SLOT SIZE .01.

(5) TOTAL LENGTH OF PIPE 11 FEET AT 2 INCH DIAMETER.

(6) TYPE OF PACK AROUND WELL POINT OR SLOTTED PIPE natural sand.

(7) CONCRETE CAP. (YES) NO (CIRCLE ONE)

(8) HEIGHT OF WELL CASING ABOVE GROUND 1.25 FEET.

(9) PROTECTIVE CASING? (YES) NO (CIRCLE ONE)
HEIGHT ABOVE GROUND 1.25 FEET.
LOCKING CAP? (YES) NO (CIRCLE ONE)

(10) TYPE OF UPPER BACKFILL cement

(11) BOREHOLE DIAMETER 8 INCHES.

(12) DEPTH TO GROUND WATER 13 FEET.*

(13) TOTAL DEPTH OF BOREHOLE 35 FEET.*

(14) TYPE OF LOWER BACKFILL natural sand

(15) PIPE MATERIAL PVC.

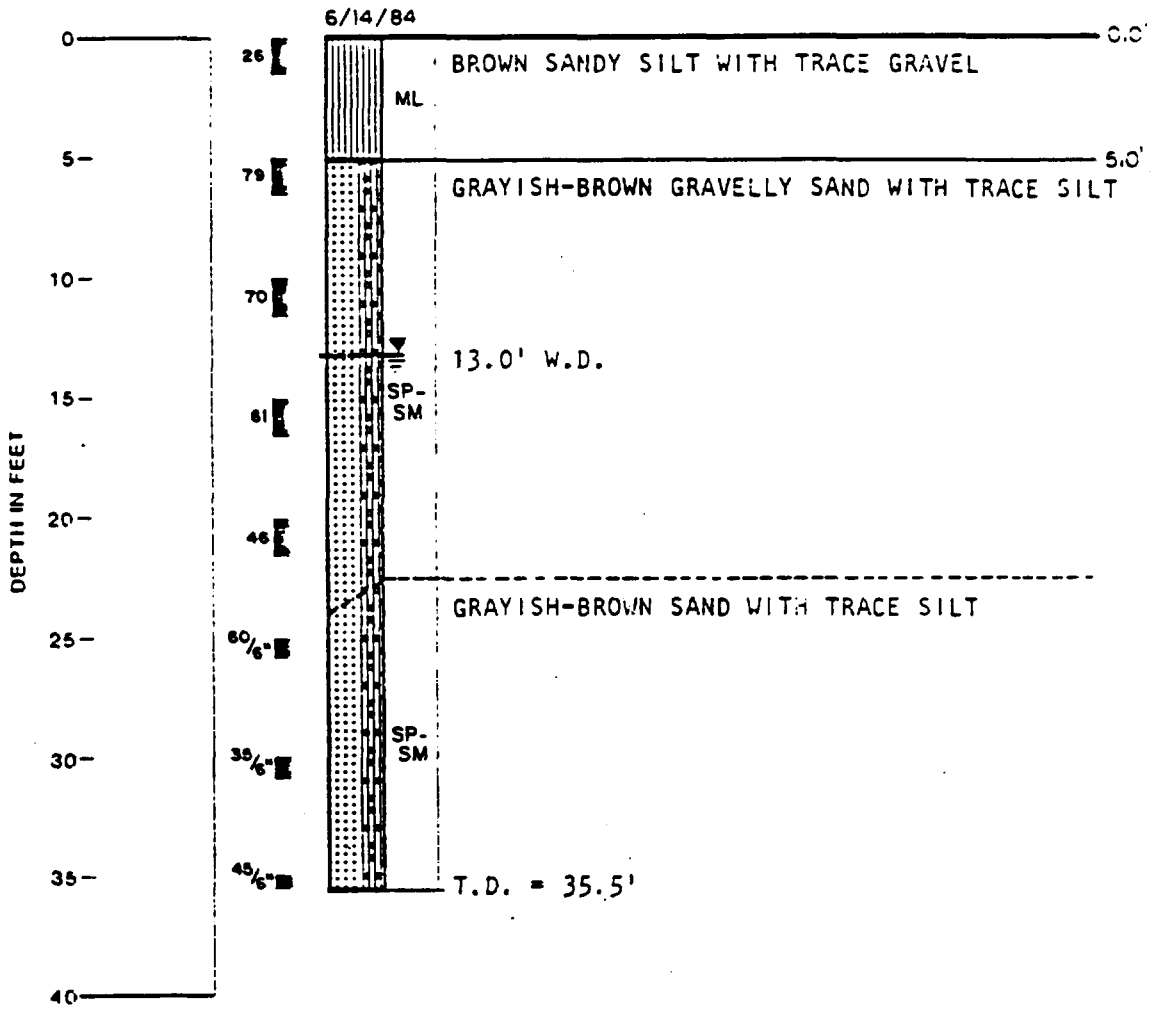
(16) SCREEN MATERIAL PVC.

*(DEPTH FROM GROUND SURFACE)

PIEZOMETER INSTALLATION DETAILS

Dames & Moore

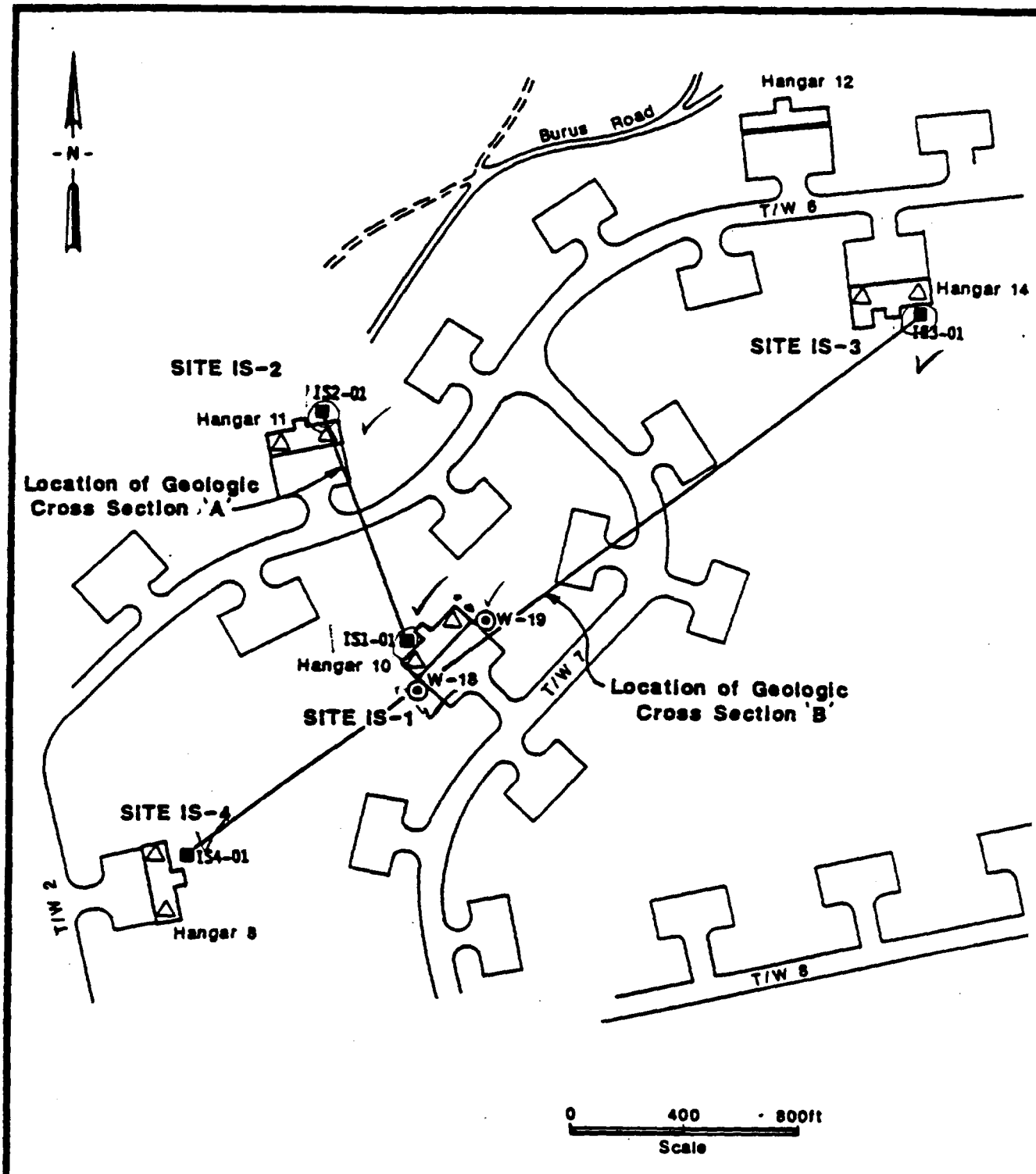
ELMENDORF AFB
BORING W-13



LOG OF BORING

Dames & Moore

PLATE C-17



IS1-01 ■ Monitoring Well Location Stage 3

W-18 ⊙ Monitoring Well Location, Phase II, Stage 1

△ Dry Well Location

LOCATION MAP
SITE IS 1-4

IRP Stage 3 RI/FS
Elmendorf AFB, AK

Figur
4.2.8.

WELL COMPLETION INFORMATION

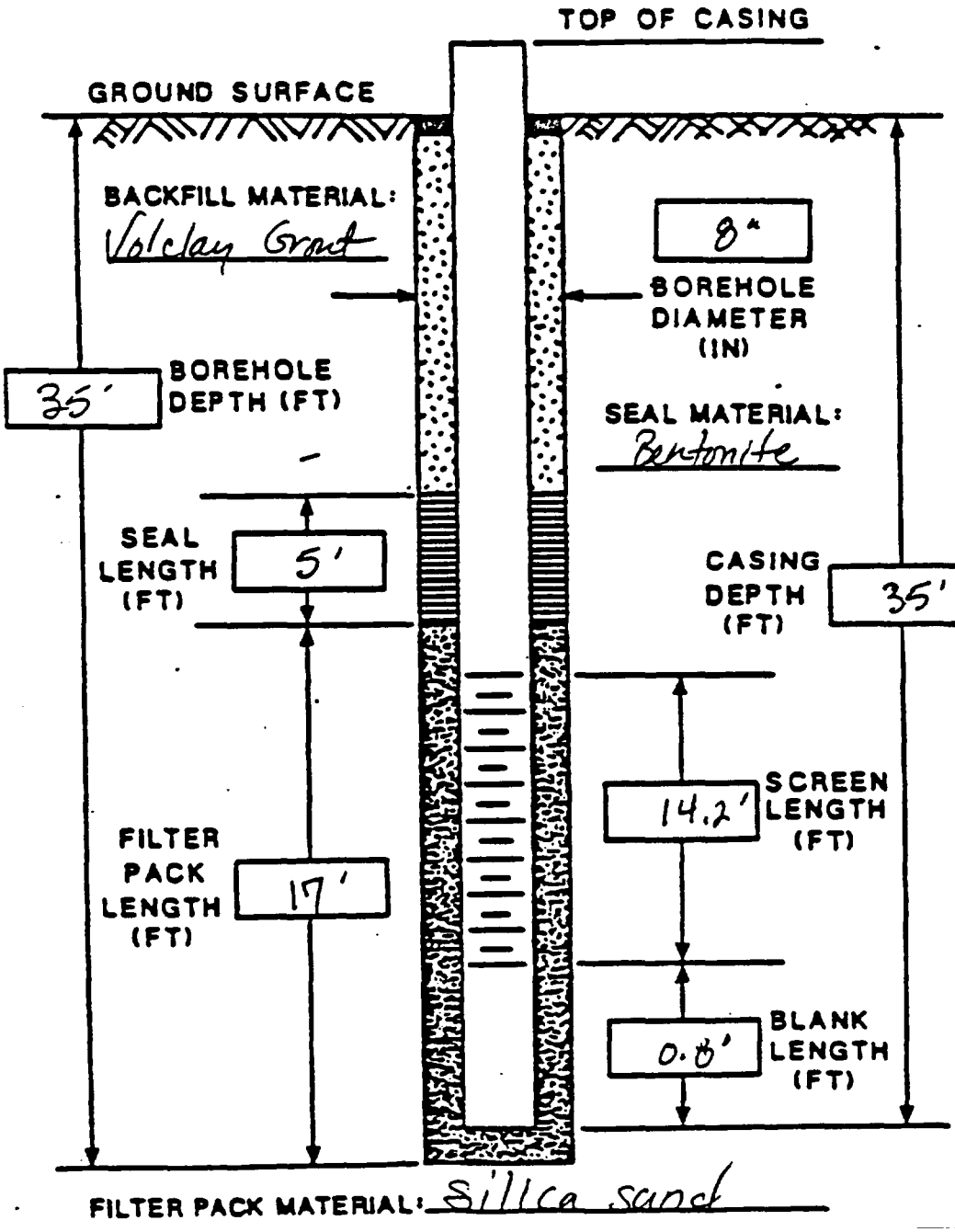
INSTALLATION ID Elm 0697
LOCATION ID IS-1 (033)
WELL OWNER USAF
WELL TYPE CLASS MW
FORMATION OF COMPLETION Coarse sand

LOCATION TYPE WL
INSTALLATION DATE 8/3/88
INSTALLER HAG
WELL COMPLETION METHOD GS
ZONE OF COMPLETION Aquifer

SEAL END DEPTH (FT) 18 ft
MEAS. POINT ELEV. (FTMSL)
CASING DEPTH (FT) 35 ft
CASING DIAMETER (IN) 2 in. ID
CASING MATERIAL PVC

FILTER PACK LENGTH (FT) 17 ft
SCREEN BEGIN. DEPTH (FT) 20 ft
SCREEN LENGTH (FT) 14.2 ft
SCREEN SLOT SIZE (IN) 0.02

REMARKS Flush mount



WELL TYPE CLASSIFICATIONS (WTCCODE)
- MNW - MONITORING WELL
- PRW - PRODUCTION WELL
- TST - TEST WELL
- WSW - WATER SUPPLY WELL

CASING MATERIAL (CMACODE)
- ABS - ABS
- BRK - BRICK
- CBS - CARBON STEEL
- CNC - CONCRETE
- COP - COPPER
- FBG - FIBERGLASS
- GLS - GALVANIZED STEEL
- WRI - WROUGHT IRON
- SLS - STAINLESS STEEL
- LCS - LOW CARBON STEEL
- M - OTHER METAL
- TFL - TEFLON
- PLY - POLYPROPYLENE
- PVC - PVC
- RST - ROCK OR STONE
- STL - STEEL
- TIL - TILE
- COS - COATED STEEL
- WD - WOOD

ZONE OF COMPLETION (GZCCODE)
- A - AQUIFER
- C - CONFINING LAYER

WELL COMPLETION METHODS: (WCMCODE)
- C - POROUS CONCRETE
- GP - GRAVEL PACK W/PERF.
- GS - GRAVEL PACK W/SCREEN
- H - HORIZONTAL GALLERY
- OE - OPEN END
- P - PERFORATED OR SLOTTE
- S - SCREEN
- SP - SAND POINT
- W - WALLED OR SHORED
- OP - OPEN

BOREHOLE LOG (SOIL)

INSTALLATION ID Elm 0687 LOCATION ID IS-7 [redacted](033)
LOCATION TYPE BH LOCATION PROXIMITY ____
COORDINATES (FT): NORTH ____ EAST ____
SURFACE ELEVATION (FTMSL) ____
DRILLER CODE ____ CONSTRUCTION METHOD HS
DATE STARTED 8/2/88 DATE COMPLETED 8/3/88
BOREHOLE DEPTH (FT.) 35 ft BOREHOLE DIAM. (IN) 8 in

GROUNDWATER LEVELS		
DATE	TIME	DEPTH (FT)
8/2/88	16:15	[redacted]
8/3/88	09:53	27.3 ft

LOCATION DESCRIPTION
8 ft North of SW garage door in front of North facing side of building 10, on pavement.

MAP REFERENCE ID ____ LOCATION CROSS REFERENCE ____

LITHOLOGIC LOG LOGGER CODE 46

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
1-										
3-										
5-	↓	↓	↓	U	033 0001		0.5	N	GW	0-6.5 ft. grey-brown sandy gravel, loose, trace of silt, moist HNU @ 3:25.
7-										
9-										
11-	↓	↓		U			1.0	N	GW	6.5 - 11.5 ft. grey-brown sandy gravel, loose moist, trace of silt.
13-										
15-	↓	↓		U			0.1	N	GW	11.5 - 16.5 ft.
17-										
19-										
21-	↓	↓		U			1.0	N	GW	16.5 ft - 21.5 ft brown sandy gravel, loose, moist, definite silt content.
23-										
25-	↓	↓		U			10.0	N	GW	21.5 - 26.5 ft. Ground water @ 25'11" @ 16:15 hrs.
27-										
29-										

LOCATION PROXIMITY (LPRCODE)
I - WITHIN INSTALLATION O - OUTSIDE INSTALLATION

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

CONSTRUCTION METHODS (CMCCODE)
- AR - AIR ROTARY
- B - BORED OR AUGERED
- C - CABLE-TOOL
- D - DUG
- HS - HOLLOW STEM AUGER
- J - JETTED
- P - AIR-PERCUSSION
- RM - REVERSE ROTARY, MUD
- T - TRENCHING
- V - DRIVEN
- W - DRIVE AND WASH

SAMPLE METHODS (SSMCODE)
- A - AUGER CUTTINGS
- S - 2" O.D. 1.38" I.D. DRIVE SAMPLE
- U - 3" O.D. 2.42" I.D. TUBE SAMPLE
- T - 3" O.D. THIN-WALLED SHELBY TUBE

BOREHOLE LOG (SOIL)

INSTALLATION ID Elm 0687
LOCATION ID IS-I (OES)
DATE STARTED 8/2/88

LITHOLOGIC LOG

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
31	↓	↓	↓	U	033 0003		1.0	N	GW	30-31.5 sandy gravel w/ silt, brown, loose, wet.
33										
35	↓	↓		U			0.1	N	SW	31.5-35 coarse sand, loose, wet
37										
										TD = 35 ft., 2" TD monitoring well installed in borehole.

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

WELL COMPLETION INFORMATION

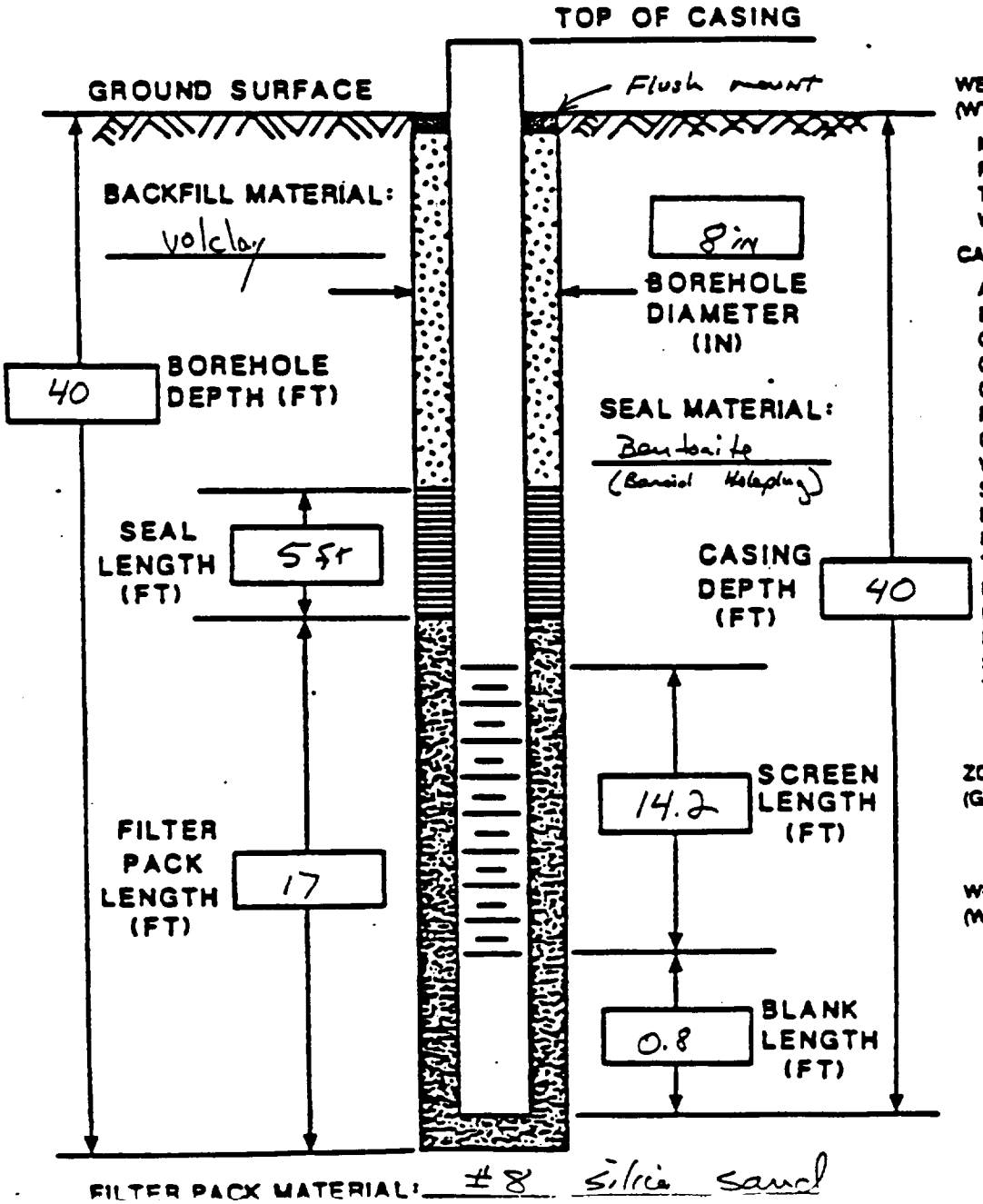
INSTALLATION ID ELM 0687
LOCATION ID IS-2 (034)
WELL OWNER USAF
WELL TYPE CLASS. MNW
FORMATION OF COMPLETION SAND

LOCATION TYPE WL
INSTALLATION DATE 30 July 88
INSTALLER WCC
WELL COMPLETION METHOD HS
ZONE OF COMPLETION A

SEAL END DEPTH (FT) 18-23 ft
MEAS. POINT ELEV. (FTMSL) 205
CASING DEPTH (FT) 40 ft
CASING DIAMETER (IN) 2 in ID
CASING MATERIAL PVC

FILTER PACK LENGTH (FT) 17
SCREEN BEGIN. DEPTH (FT) 25 - 39.2 ft
SCREEN LENGTH (FT) 15 ft overall
SCREEN SLOT SIZE (IN) 0.02 in

REMARKS flush mount suiton casing



WELL TYPE CLASSIFICATIONS (WTCCODE)
- MNW - MONITORING WELL
- PRW - PRODUCTION WELL
- TST - TEST WELL
- WSW - WATER SUPPLY WELL

CASING MATERIAL (CMACODE)
- ABS - ABS
- BRK - BRICK
- CBS - CARBON STEEL
- CNC - CONCRETE
- COP - COPPER
- FBG - FIBERGLASS
- GLS - GALVANIZED STEEL
- WRI - WROUGHT IRON
- SLS - STAINLESS STEEL
- LCS - LOW CARBON STEEL
- M - OTHER METAL
- TFL - TEFLON
- PLY - POLYPROPYLENE
- PVC - PVC
- RST - ROCK OR STONE
- STL - STEEL
- TIL - TILE
- COS - COATED STEEL
- WD - WOOD

ZONE OF COMPLETION (GZCCODE)
- A - AQUIFER
- C - CONFINING LAYER

WELL COMPLETION METHODS: (WCMCODE)
- C - POROUS CONCRETE
- GP - GRAVEL PACK W/PERF
- GS - GRAVEL PACK W/SCF
- H - HORIZONTAL GALLERY
- OE - OPEN END
- P - PERFORATED OR SLOTTE
- S - SCREEN
- SP - SAND POINT
- W - WALLED OR SHORI
- OP - OPEN

BOREHOLE LOG (SOIL)

INSTALLATION ID ELM 0687 LOCATION ID IS-2 (034)
LOCATION TYPE BH LOCATION PROXIMITY I
COORDINATES (FT): NORTH _____ EAST _____
SURFACE ELEVATION (FTMSL) 205
DRILLER CODE _____ CONSTRUCTION METHOD HS
DATE STARTED 30 July 88 DATE COMPLETED 30 July 88
BOREHOLE DEPTH (FT.) 40 ft BOREHOLE DIAM. (IN) 8 in

GROUNDWATER LEVELS		
DATE	TIME	DEPTH (FT)
30 July 88	1000	30 ap. elevation. ft

LOCATION DESCRIPTION
19 ft N of Hougen #11 (Bldg 42.425)
56 ft W of NE corner of Hougen #11
- ATCC #1 pond
- site just below edge of Elmendorf moraine

MAP REFERENCE ID _____ LOCATION CROSS REFERENCE _____

LITHOLOGIC LOG LOGGER CODE _____

	DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
0900	1	↓	↓		A			0	N	~~ASPHALT~~	0 - 0.3 ft : ASPHALT PAVEMENT
	3									GW	0.3 - 7 ft : Brown sandy
0930	5	I	I		U			0.2	N		gravel fence silt damp
	7	↓	↓								very dense
	9									SP	7 - 22 ft : Brown medium
0900	11	↓	↓	↓	U	034 0001		0.5	N		sand, damp, dense
	13										
0915	15	I	I		U			0	N		
	17	↓	↓								
	19										
0930	21	↓	↓		U			2	N		
	23									SW	22 - 28 ft : gray. brown
0940	25	I	I		U			0	N		gravelly sand moist very
	27	↓	↓								dense
	29									GW	28 - 34 ft : Gray - brown sandy

LOCATION PROXIMITY (LPRCODE)
I - WITHIN INSTALLATION O - OUTSIDE INSTALLATION

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST (Cont.)

CONSTRUCTION METHODS (CMCCODE)
AR - AIR ROTARY
B - BORED OR AUGERED
C - CABLE-TOOL
D - DUG
HS - HOLLOW STEM AUGER
J - JETTED
P - AIR-PERCUSSION
RM - REVERSE ROTARY, MUD
T - TRENCHING
V - DRIVEN
W - DRIVE AND WASH

SAMPLE METHODS (SSMCODE)
A - AUGER CUTTINGS
S - 2" O.D. 1.38" I.D. DRIVE SAMPLE
U - 3" O.D. 2.42" I.D. TUBE SAMPLE
T - 3" O.D. THIN-WALLED SHELBY TUBE

BOREHOLE LOG (SOIL)

INSTALLATION ID SCM 0687
LOCATION ID IS-2 (034) DATE STARTED 30 Jul / DD

LITHOLOGIC LOG

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
31 -	↓	↓	↓	U	034 / 0002		0	N	GW	(cont) gravel, wet, very dense
33										
35										
37									SW	34 - 40 ft : gray SAND, wet dense (heaves)
39	↓	↓		U			0	N		
41										
										TD @ 40 ft.
										2 in ID PVC monitoring
										well installed with
										15 ft. screened section
										at bottom

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

WELL COMPLETION INFORMATION

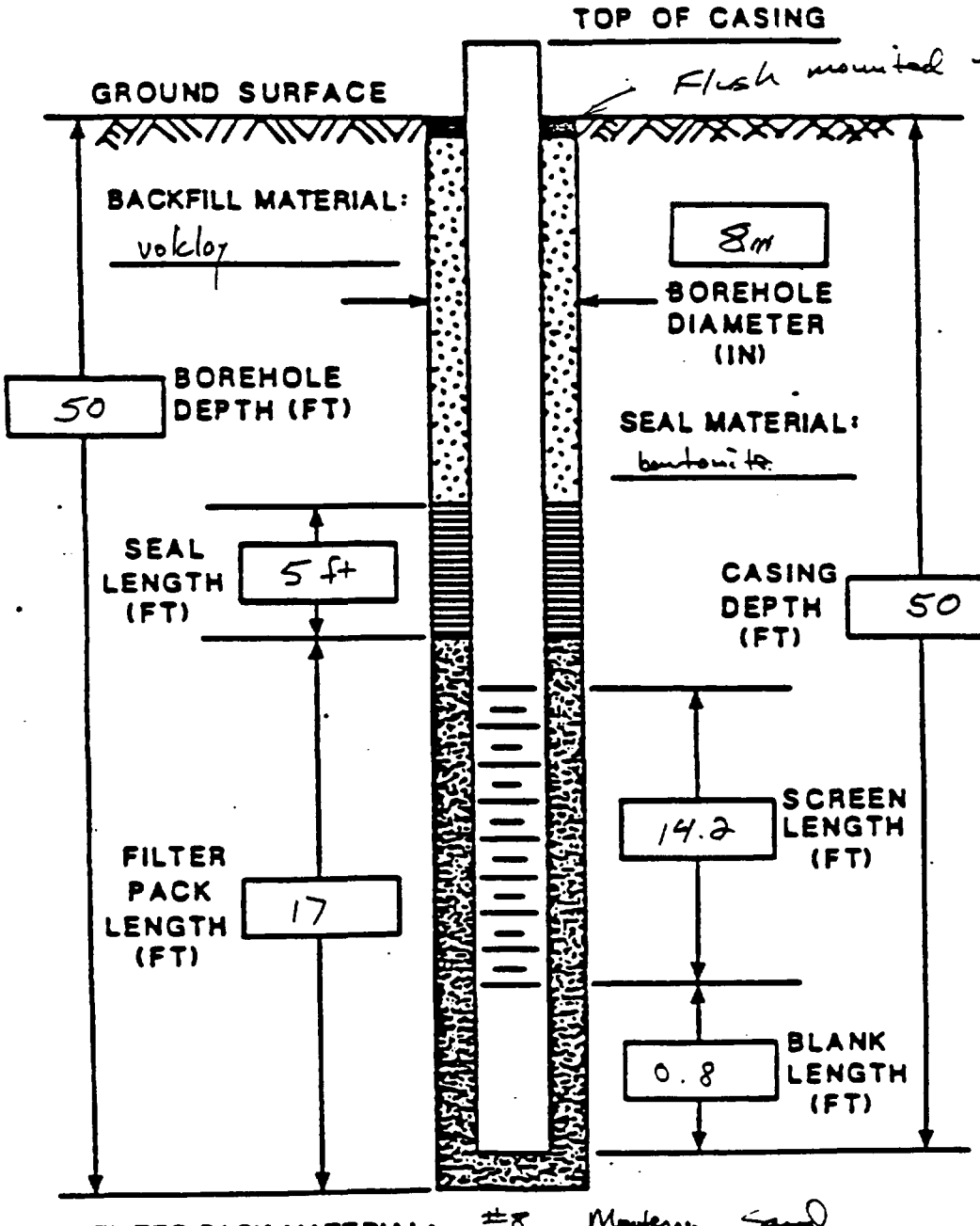
INSTALLATION ID ELM - 0687
LOCATION ID IS-3 (035)
WELL OWNER USAF
WELL TYPE CLASS. MNW
FORMATION OF COMPLETION SAND

LOCATION TYPE WL
INSTALLATION DATE 1 Aug 88
INSTALLER Dugan / Bam
WELL COMPLETION METHOD GS
ZONE OF COMPLETION A

SEAL END DEPTH (FT) 28-33 ft
MEAS. POINT ELEV. (FTMSL)
CASING DEPTH (FT) 50 ft
CASING DIAMETER (IN) 2 in I.D.
CASING MATERIAL PVC (Teflon)

FILTER PACK LENGTH (FT) 17 ft
SCREEN BEGIN. DEPTH (FT) 35 to 50 ft
SCREEN LENGTH (FT) 14.2
SCREEN SLOT SIZE (IN) .02

REMARKS Protective steel casing flush with ground surface



WELL TYPE CLASSIFICATIONS (WTCCODE)
- MNW - MONITORING WELL
- PRW - PRODUCTION WELL
- TST - TEST WELL
- WSW - WATER SUPPLY WELL

CASING MATERIAL (CMACODE)
- ABS - ABS
- BRK - BRICK
- CBS - CARBON STEEL
- CNC - CONCRETE
- COP - COPPER
- FBG - FIBERGLASS
- GLS - GALVANIZED STEEL
- WRI - WROUGHT IRON
- SLS - STAINLESS STEEL
- LCS - LOW CARBON STEEL
- M - OTHER METAL
- TFL - TEFLON
- PLY - POLYPROPYLENE
- PVC - PVC
- RST - ROCK OR STONE
- STL - STEEL
- TIL - TILE
- COS - COATED STEEL
- WD - WOOD

ZONE OF COMPLETION (GZCCODE)
- A - AQUIFER
- C - CONFINING LAYER

WELL COMPLETION METHODS: (WCMCODE)
- C - POROUS CONCRETE
- GP - GRAVEL PACK W/PERF.
- GS - GRAVEL PACK W/SCREEN
- H - HORIZONTAL GALLERY
- OE - OPEN END
- P - PERFORATED OR SLOTTE
- S - SCREEN
- SP - SAND POINT
- W - WALLED OR SHORED
- OP - OPEN

BOREHOLE LOG (SOIL)

INSTALLATION ID SLM (0687) LOCATION ID IS-3 (035)
LOCATION TYPE BH LOCATION PROXIMITY I
COORDINATES (FT): NORTH _____ EAST _____
SURFACE ELEVATION (FTMSL) _____
DRILLER CODE _____ CONSTRUCTION METHOD HS
DATE STARTED 8/1/88 DATE COMPLETED _____
BOREHOLE DEPTH (FT.) 50 ft BOREHOLE DIAM. (IN) 8 in

GROUNDWATER LEVELS		
DATE	TIME	DEPTH (FT)
8/1/88	1100	43 ft (groundwater)

LOCATION DESCRIPTION
49 ft south of Hangar 14 (bldg 43-550)
24 ft west of SE corner bldg 43-550

MAP REFERENCE ID _____ LOCATION CROSS REFERENCE _____

LITHOLOGIC LOG

LOGGER CODE _____

	DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
0830	1	↓	↓		A			0	N	GP	0-3 ft: Reddish-brown gravel with some sand, damp, dense
	3										
0900	5	T	T		U			0	N	GW	3-12 ft: brown sandy gravel with trace silt, damp, v. dense, numerous cobbles to 4 in.
	7	↓	↓								
	9										
0915	11	↓	N		U			—	—		
	13									GW	12-25 ft: Gray-brown sandy gravel, trace silt, occasional 4 in cobbles, damp, very dense
0930	15	T	T		U	035 0001		0	N		
	17	↓	↓								
	19										
0940	21	↓	↓		U			0	N		
	23										
0950	25	T	T		U			0	N		
	27	↓	↓								
	29										

LOCATION PROXIMITY (LPRCODE)
I - WITHIN INSTALLATION O - OUTSIDE INSTALLATION

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

CONSTRUCTION METHODS (CMCCODE)
- AR - AIR ROTARY
- B - BORED OR AUGERED
- C - CABLE-TOOL
- D - DUG
- HS - HOLLOW STEM AUGER
- J - JETTED
- P - AIR-PERCUSSION
- RM - REVERSE ROTARY, MUD
- T - TRENCHING
- V - DRIVEN
- W - DRIVE AND WASH

SAMPLE METHODS (SSMCODE)
- A - AUGER CUTTINGS
- S - 2" O.D. 1.38" I.D. DRIVE SAMPLE
- U - 3" O.D. 2.42" I.D. TUBE SAMPLE
- T - 3" O.D. THIN-WALLED SHELBY TUBE

BOREHOLE LOG (SOIL)

INSTALLATION ID EIM 0687
LOCATION ID IS-3 (035) DATE STARTED 1 Aug 88

LITHOLOGIC LOG

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
31	↓	↓		U			0	N	GW	
33										
35										
37										
39										
41	↓	↓		U			0	N		- becomes moist
43									SW	42 - ft: Gray sand, wet
45	I	I		U	035 0002		0.2	N		very dense
47	↓									
49	I									
51										
										T.D @ 50 ft
										2 in ID monitoring
										well installed w/ 15 ft
										screen

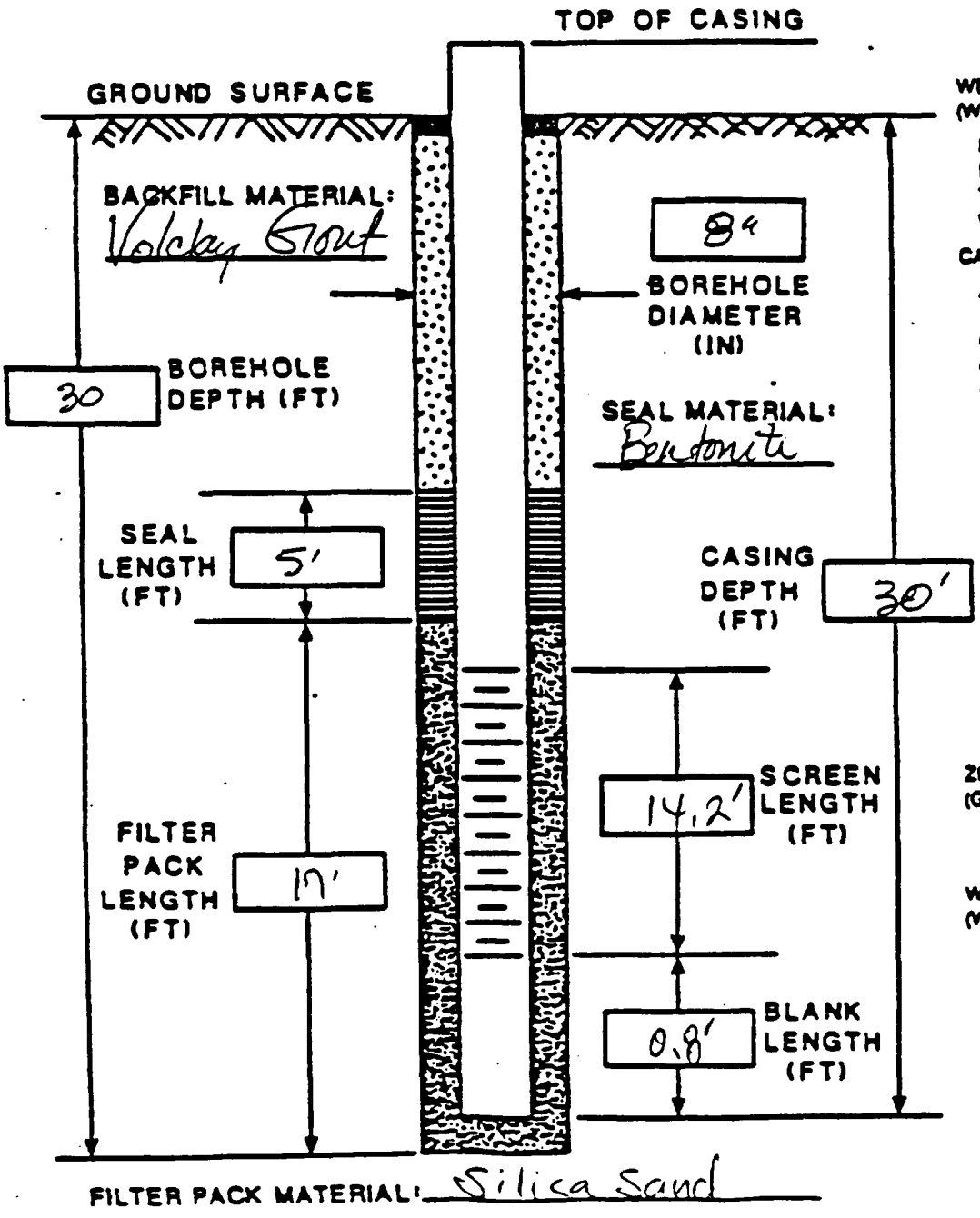
CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

WELL COMPLETION INFORMATION

INSTALLATION ID Elm 0687
LOCATION ID IS-4 (036)
WELL OWNER USAF
WELL TYPE CLASS. MW
FORMATION OF COMPLETION Aquifer gravelly sand
LOCATION TYPE WL
INSTALLATION DATE 8/3/88
INSTALLER HB
WELL COMPLETION METHOD GS
ZONE OF COMPLETION Aquifer

SEAL END DEPTH (FT) 13 Feet
MEAS. POINT ELEV. (FT MSL)
CASING DEPTH (FT) 30 ft.
CASING DIAMETER (IN) 2 in ID
CASING MATERIAL PVC
REMARKS Flush mount

FILTER PACK LENGTH (FT) 17
SCREEN BEGIN. DEPTH (FT) 15
SCREEN LENGTH (FT) 14.2
SCREEN SLOT SIZE (IN) 0.02



WELL TYPE CLASSIFICATIONS (WTCCODE)
- MNW - MONITORING WELL
- PRW - PRODUCTION WELL
- TST - TEST WELL
- WSW - WATER SUPPLY WELL

CASING MATERIAL (CMACODE)
- ABS - ABS
- BRK - BRICK
- CBS - CARBON STEEL
- CNC - CONCRETE
- COP - COPPER
- FBG - FIBERGLASS
- GLS - GALVANIZED STEEL
- WRI - WROUGHT IRON
- SLS - STAINLESS STEEL
- LCS - LOW CARBON STEEL
- M - OTHER METAL
- TFL - TEFLON
- PLY - POLYPROPYLENE
- PVC - PVC
- RST - ROCK OR STONE
- STL - STEEL
- TIL - TILE
- COS - COATED STEEL
- WD - WOOD

ZONE OF COMPLETION (GZCCODE)
- A - AQUIFER
- C - CONFINING LAYER

WELL COMPLETION METHODS: (WCMCODE)
- C - POROUS CONCRETE
- GP - GRAVEL PACK W/PERF
- GS - GRAVEL PACK W/SC
- H - HORIZONTAL GALLERY
- OE - OPEN END
- P - PERFORATED OR SLOTTE
- S - SCREEN
- SP - SAND POINT
- W - WALLED OR SHORED
- OP - OPEN

BOREHOLE LOG (SOIL)

INSTALLATION ID Elm 0687 LOCATION ID IS-4 (036)
LOCATION TYPE BH LOCATION PROXIMITY ____
COORDINATES (FT): NORTH ____ EAST ____
SURFACE ELEVATION (FTMSL) ____
DRILLER CODE ____ CONSTRUCTION METHOD HS
DATE STARTED 8/3/89 DATE COMPLETED ____
BOREHOLE DEPTH (FT.) ____ BOREHOLE DIAM. (IN) 8 in.

GROUNDWATER LEVELS		
DATE	TIME	DEPTH (FT)
8/3/89	13:05	23.9
8/3/89	14:35	22.6

LOCATION DESCRIPTION

MAP REFERENCE ID ____ LOCATION CROSS REFERENCE ____

LITHOLOGIC LOG LOGGER CODE ____

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
1-				~~U~~			~~0~~	~~U~~	~~GW~~	~~0-5.0 feet silty gravel, loose, semi moist.~~
3-										
5-	↓	↓		U			0	N	GW	0-5.0 feet silty gravel, loose, semi moist
7-										
9-										
11-	↓	↓	↓	U	036 0003		2.0	N	GW	5.0-11.5 feet silty gravel - "
13-										
15-	↓	↓		U			0.4	N	GW	11.5-16.5 feet sandy gravel w/ some silt moist.
17-										
19-										
21-	↓	↓		U			0.5	N	SP	16.5-21.5 feet equigranular sand w/ some gravel. loose, moist.
23-										
25-	↓	↓	↓	U	036 0002		1.0	N	SW	23-26.5 feet ~~sandy gravel~~ gravely sand
27-										
29-										

LOCATION PROXIMITY (LPRCODE)
I - WITHIN INSTALLATION O - OUTSIDE INSTALLATION

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

CONSTRUCTION METHODS (CMCCODE)
- AR - AIR ROTARY
- B - BORED OR AUGERED
- C - CABLE-TOOL
- D - DUG
- HS - HOLLOW STEM AUGER
- J - JETTED
- P - AIR-PERCUSSION
- RM - REVERSE ROTARY, MUD
- T - TRENCHING
- V - DRIVEN
- W - DRIVE AND WASH

SAMPLE METHODS (SSMCODE)
- A - AUGER CUTTINGS
- S - 2" O.D. 1.38" I.D. DRIVE SAMPLE
- U - 3" O.D. 2.42" I.D. TUBE SAMPLE
- T - 3" O.D. THIN-WALLED SHELBY TUBE

BOREHOLE LOG (SOIL)

INSTALLATION ID Elm (06M)
LOCATION ID IS-4 (036)

DATE STARTED 8/3/90

LITHOLOGIC LOG

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
31-	↓	↓		U			0.5	N	GW	26.5 - 31.5 dark sandy gravel wet.
33-										
35-										
										TD = 30 ft, 2" ID monitoring well installed in borehole

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

PIEZOMETER DETAIL INFORMATION SHEET

GROUND SURFACE ELEVATION _____

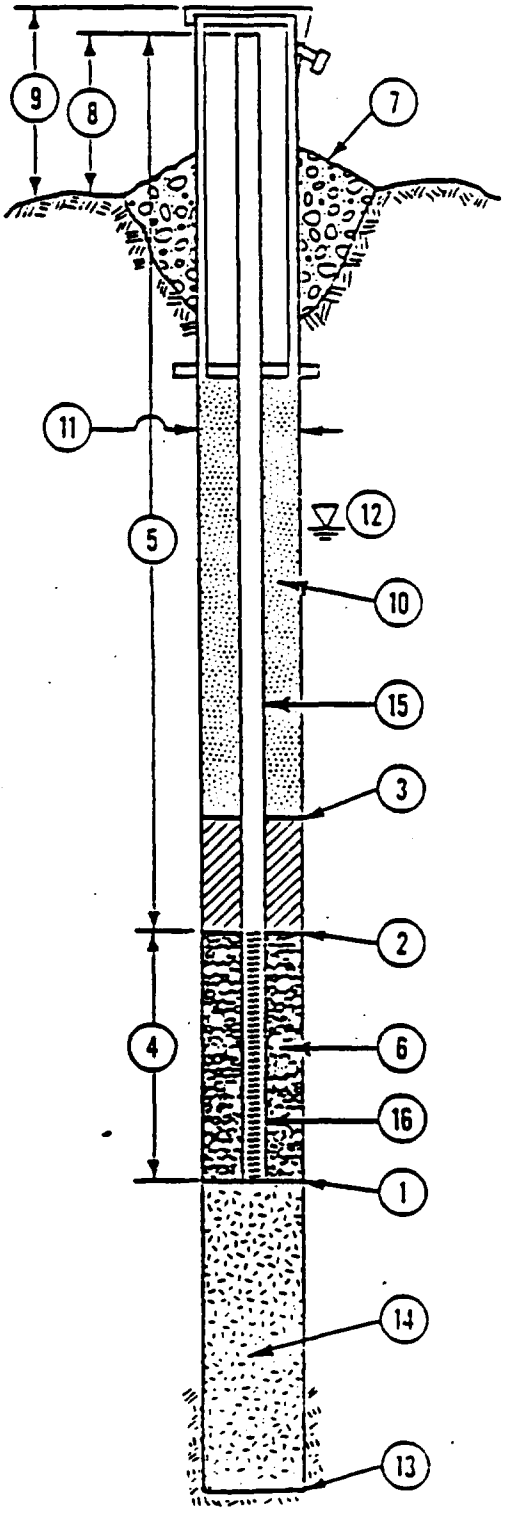
TOP OF WELL CASING ELEVATION _____

JOB NUMBER 1015-200

BORING NUMBER W-1

DATE 6/21/84

LOCATION Elmendorf



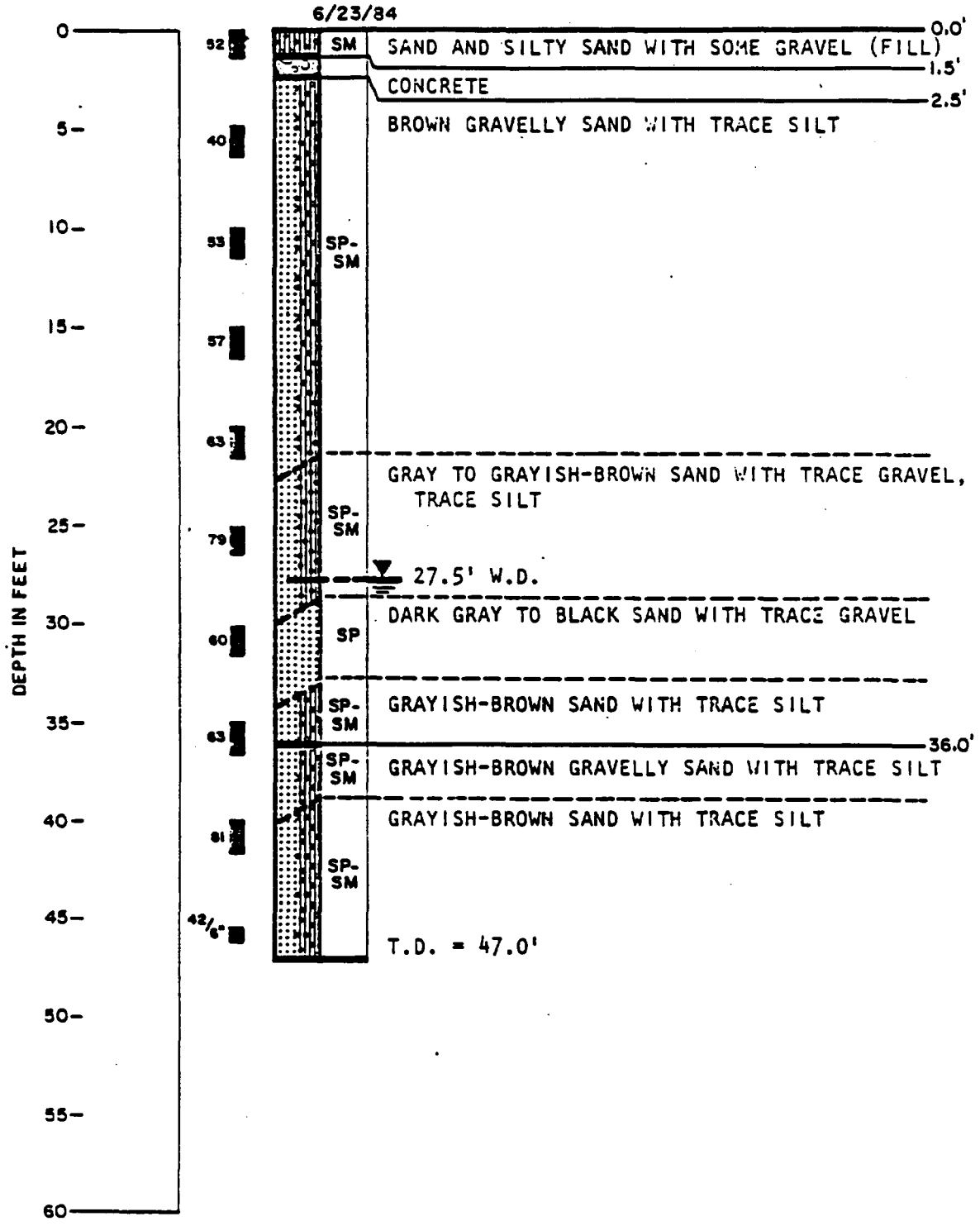
1. DEPTH TO BOTTOM OF WELL POINT OR SLOTTED PIPE 45 FEET. *
2. DEPTH TO BOTTOM OF SEAL (IF INSTALLED) 20 FEET. *
3. DEPTH TO TOP OF SEAL (IF INSTALLED) 15 FEET. *
4. LENGTH OF WELL SCREEN 25 FEET. SLOT SIZE .01
5. TOTAL LENGTH OF PIPE 19 ± FEET AT 2 INCH DIAMETER.
6. TYPE OF PACK AROUND WELL POINT OR SLOTTED PIPE sand
7. CONCRETE CAP. (YES) NO (CIRCLE ONE)
8. HEIGHT OF WELL CASING ABOVE GROUND 1.5 FEET.
9. PROTECTIVE CASING? (YES) NO (CIRCLE ONE)
   HEIGHT ABOVE GROUND 2.5 FEET.
   LOCKING CAP? (YES) NO (CIRCLE ONE)
10. TYPE OF UPPER BACKFILL Cement
11. BOREHOLE DIAMETER 8 INCHES.
12. DEPTH TO GROUND WATER 27 ± FEET. *
13. TOTAL DEPTH OF BOREHOLE 50 FEET. *
14. TYPE OF LOWER BACKFILL native sand
15. PIPE MATERIAL PVC
16. SCREEN MATERIAL PVC

* (DEPTH FROM GROUND SURFACE)

PIEZOMETER INSTALLATION DETAILS

Dames & Moore

ELMENDORF AFB
BORING W-18



LOG OF BORING

Dames & Moore

PLATE C-22

PIEZOMETER DETAIL INFORMATION SHEET

GROUND SURFACE ELEVATION —

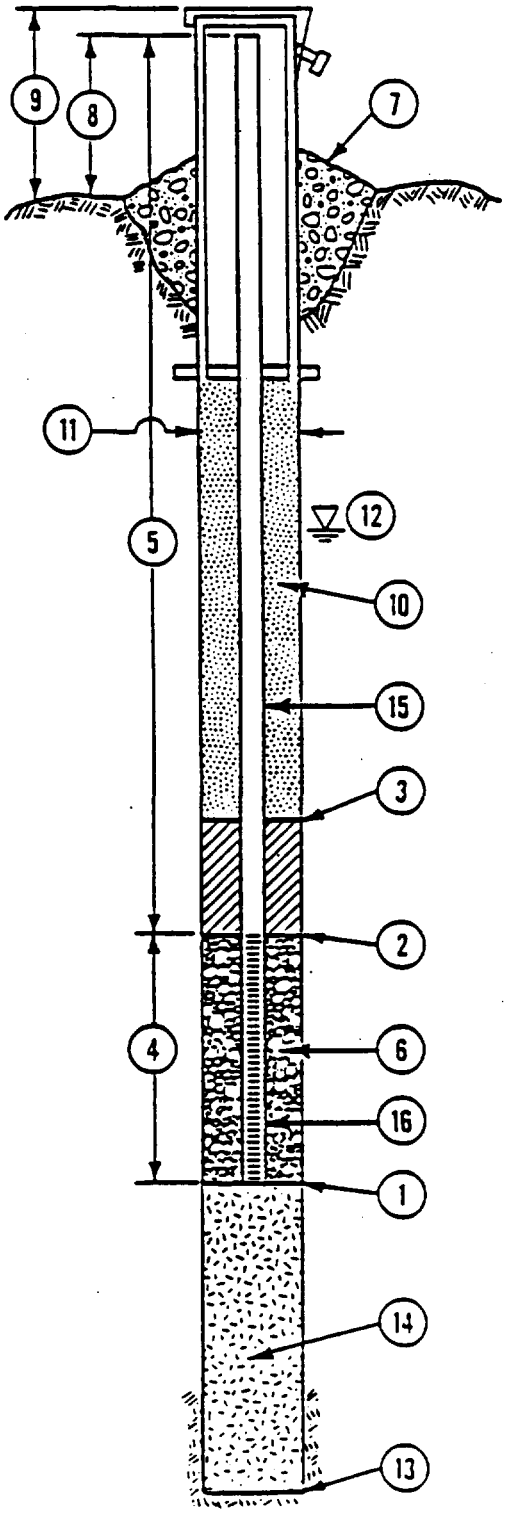
TOP OF WELL CASING ELEVATION —

JOB NUMBER 1016-200

BORING NUMBER W-19

DATE 6/22/84

LOCATION Elmendorf



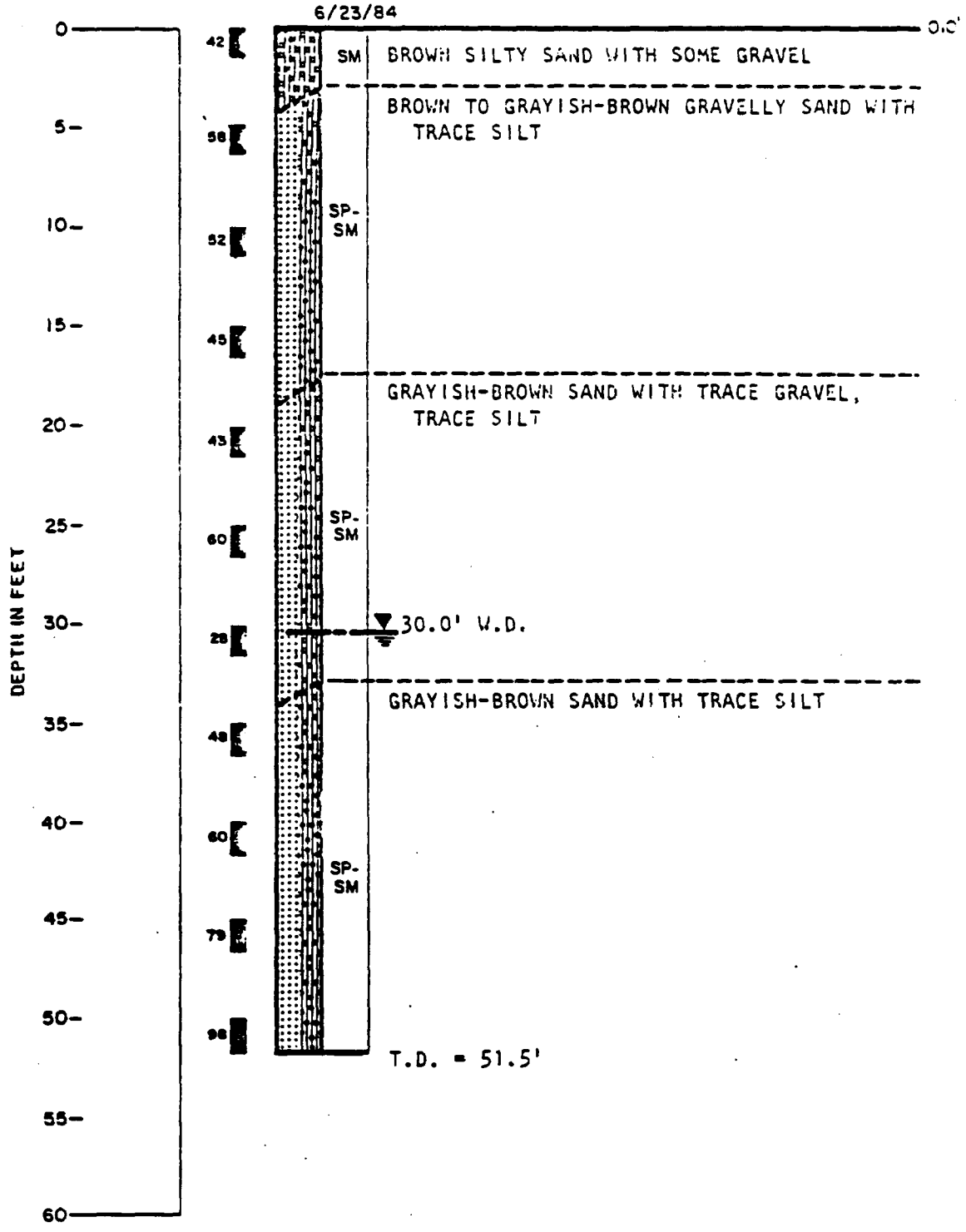
1. DEPTH TO BOTTOM OF WELL POINT OR SLOTTED PIPE 50 FEET. *
2. DEPTH TO BOTTOM OF SEAL (IF INSTALLED) 25 FEET. *
3. DEPTH TO TOP OF SEAL (IF INSTALLED) 20 FEET. *
4. LENGTH OF WELL SCREEN 25 FEET. SLOT SIZE .01.
5. TOTAL LENGTH OF PIPE 26 FEET AT 2 INCH DIAMETER.
6. TYPE OF PACK AROUND WELL POINT OR SLOTTED PIPE natural sand.
7. CONCRETE CAP. (YES) NO (CIRCLE ONE)
8. HEIGHT OF WELL CASING ABOVE GROUND 1 FEET.
9. PROTECTIVE CASING? (YES) NO (CIRCLE ONE)
   HEIGHT ABOVE GROUND 1.25 FEET.
   LOCKING CAP? (YES) NO (CIRCLE ONE)
10. TYPE OF UPPER BACKFILL cement
11. BOREHOLE DIAMETER 8 INCHES.
12. DEPTH TO GROUND WATER 30 FEET. *
13. TOTAL DEPTH OF BOREHOLE 50 FEET. *
14. TYPE OF LOWER BACKFILL none.
15. PIPE MATERIAL PVC.
16. SCREEN MATERIAL PVC.

*(DEPTH FROM GROUND SURFACE)

PIEZOMETER INSTALLATION DETAILS

Dames & Moore

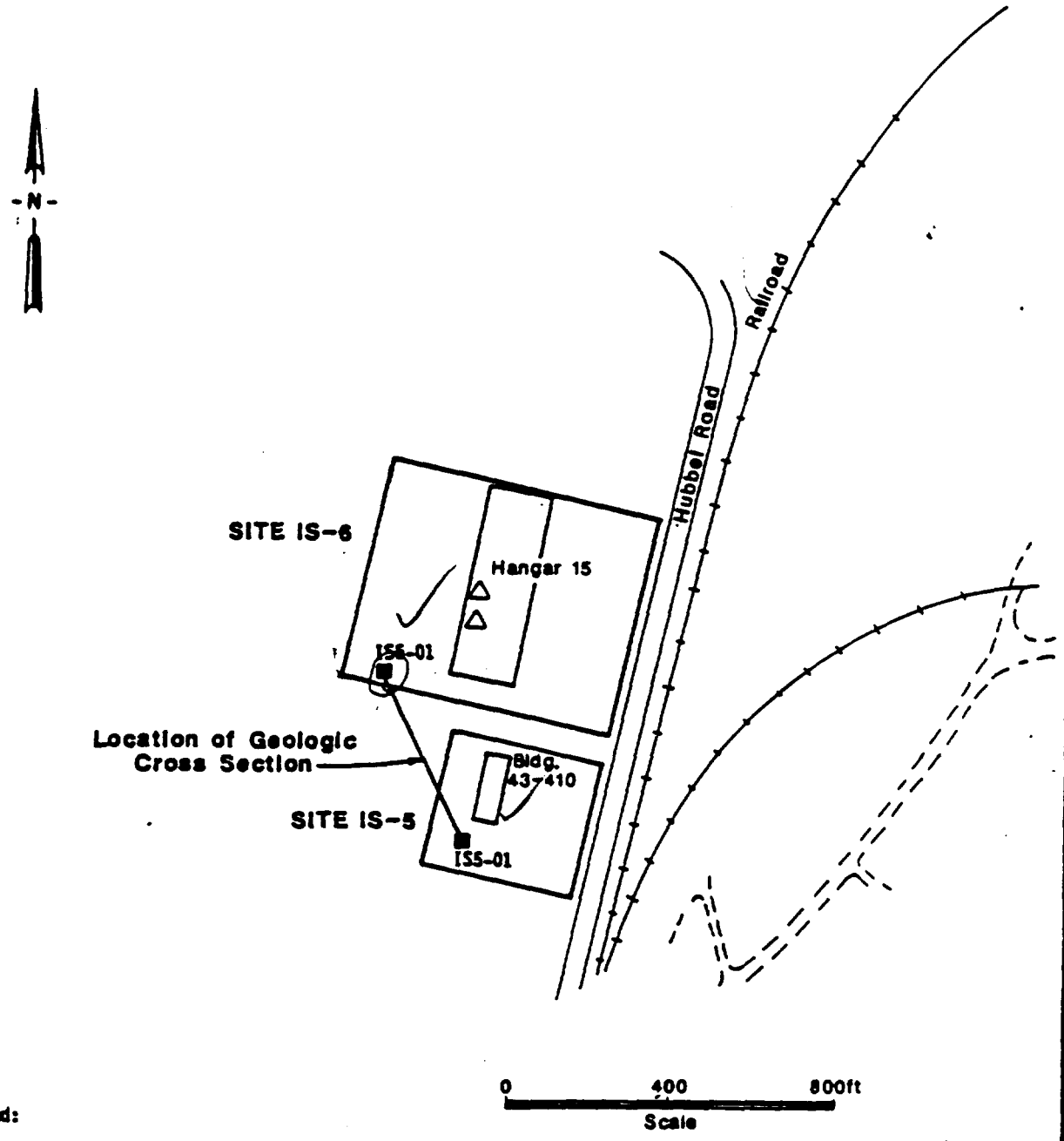
ELMENDORF AFB
BORING W-19



LOG OF BORING

Dames & Moore

PLATE C-23



Legend:

IS6-01 ■ Monitoring Well Location Stage 3

△ Dry Well Location

LOCATION MAP
SITES IS-5 & IS-6

IRP Stage 3 RI/FS Elmendorf AFB, AK	Figure 4.2.8.2

5028/5029

004

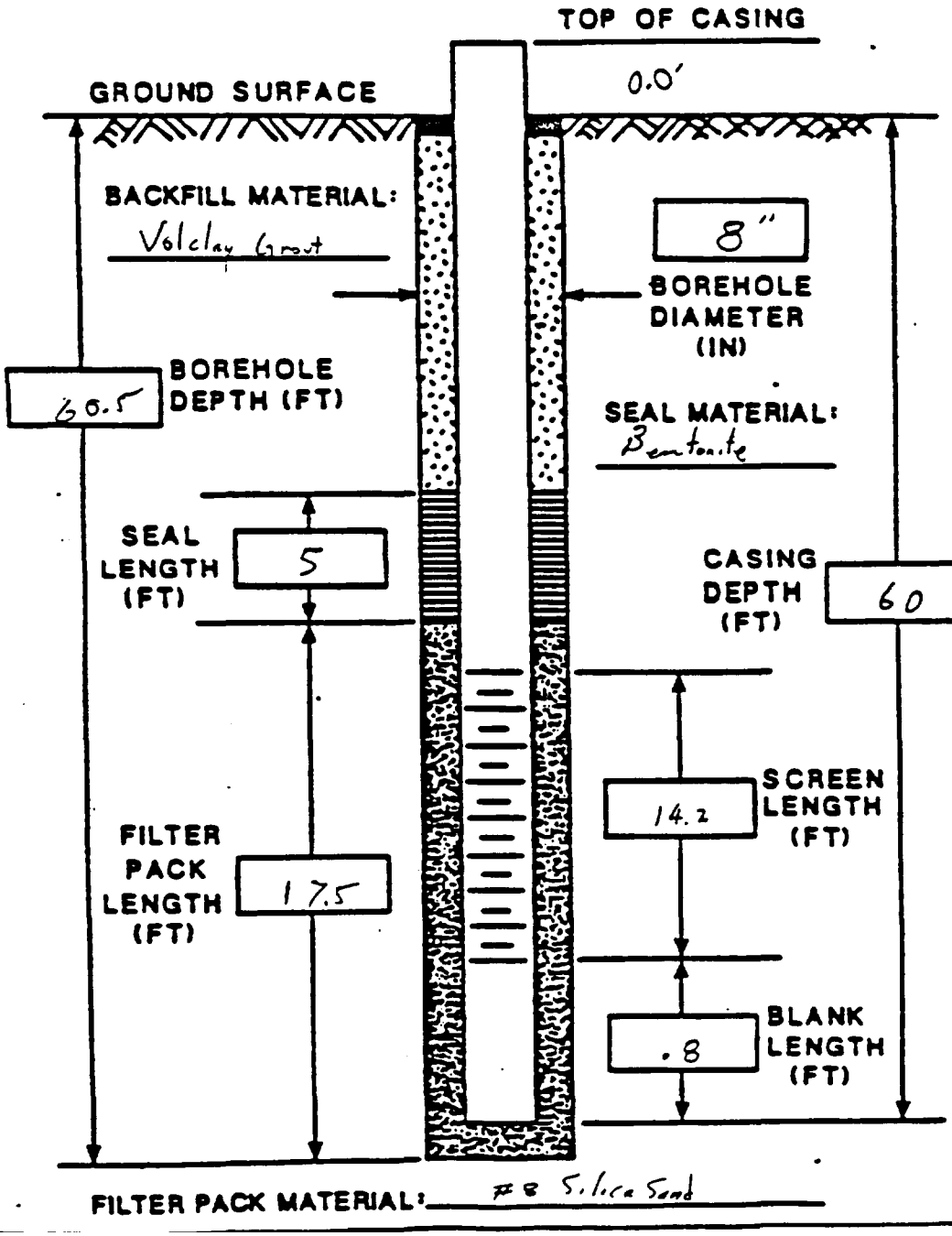
WELL COMPLETION INFORMATION

INSTALLATION ID ELM 0687
LOCATION ID 15-5 (037)
WELL OWNER
WELL TYPE CLASS. MNW
FORMATION OF COMPLETION GW-SW

LOCATION TYPE WL
INSTALLATION DATE 4 Aug 88
INSTALLER KFM
WELL COMPLETION METHOD S
ZONE OF COMPLETION 45-60'

SEAL END DEPTH (FT)
MEAS. POINT ELEV. (FTMSL)
CASING DEPTH (FT) 60
CASING DIAMETER (IN) 2
CASING MATERIAL PVC
REMARKS Christie Cap Flush Mount

FILTER PACK LENGTH (FT) 17
SCREEN BEGIN. DEPTH (FT) 45 (Est)
SCREEN LENGTH (FT) 15'
SCREEN SLOT SIZE (IN) .020



WELL TYPE CLASSIFICATIONS (WTCCODE)
- MNW - MONITORING WELL
- PRW - PRODUCTION WELL
- TST - TEST WELL
- WSW - WATER SUPPLY WELL

CASING MATERIAL (CMACODE)
- ABS - ABS
- BRK - BRICK
- CBS - CARBON STEEL
- CNC - CONCRETE
- COP - COPPER
- FBG - FIBERGLASS
- GLS - GALVANIZED STEEL
- WRI - WROUGHT IRON
- SLS - STAINLESS STEEL
- LCS - LOW CARBON STEEL
- M - OTHER METAL
- TFL - TEFLON
- PLY - POLYPROPYLENE
- PVC - PVC
- RST - ROCK OR STONE
- STL - STEEL
- TIL - TILE
- COS - COATED STEEL
- WD - WOOD

ZONE OF COMPLETION (GZCCODE)
- A - AQUIFER
- C - CONFINING LAYER

WELL COMPLETION METHODS: (WCMCODE)
- C - POROUS CONCRETE
- GP - GRAVEL PACK W/PERF.
- GS - GRAVEL PACK W/SCREEN
- H - HORIZONTAL GALLERY
- OE - OPEN END
- P - PERFORATED OR SLOTTE
- S - SCREEN
- SP - SAND POINT
- W - WALLED OR SHORED
- OP - OPEN

BOREHOLE LOG (SOIL)

INSTALLATION ID ELM 0687 LOCATION ID 15-5 (037)
LOCATION TYPE BH LOCATION PROXIMITY
COORDINATES (FT): NORTH EAST
SURFACE ELEVATION (FTMSL)
DRILLER CODE CONSTRUCTION METHOD HS
DATE STARTED 4 Aug 88 DATE COMPLETED 4 Aug 88
BOREHOLE DEPTH (FT.) 60.5 ft BOREHOLE DIAM. (IN) 8"

GROUNDWATER LEVELS		
DATE	TIME	DEPTH (FT)
4 Aug 88	1129	50.2

LOCATION DESCRIPTION
SW of Bldg 43-410 ~ 10'
From edge of pavement



MAP REFERENCE ID LOCATION CROSS REFERENCE

LITHOLOGIC LOG LOGGER CODE KFM

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
1										
3										
5	X	.7		U	037 001		0ppm	N	GW	M. to Slightly Silty Sandy Gravel
7										GW-B
9										
11	X	.8		U			0ppm	N	GW	Mist-Wet Sandy Gravel GW
13										Dark irregular band at Shoe
15	X	.7		U			0ppm	N	GW-GM	extending 5cm up sample
17										Iron stain above Undist. 5cm
19										Slightly Silty Sandy Gravel GW-GM
21	X	.8		U			0ppm	N	GP-GM	M.-wet Gr. Br. Silty Gravel GP-GM
23										
25	X	.5		U			0ppm	N	GW	Slightly Silty Moist Gray Br. Gravel
27										
25										

LOCATION PROXIMITY (LPRCODE)
I - WITHIN INSTALLATION O - OUTSIDE INSTALLATION

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

CONSTRUCTION METHODS (CMCCODE)
AR - AIR ROTARY
B - BORED OR AUGERED
C - CABLE-TOOL
D - DUG
HS - HOLLOW STEM AUGER
J - JETTED
P - AIR-PERCUSSION
RM - REVERSE ROTARY, MUD
T - TRENCHING
V - DRIVEN
W - DRIVE AND WASH

SAMPLE METHODS (SSMCODE)
A - AUGER CUTTINGS
S - 2" O.D. 1.38" I.D. DRIVE SAMPLE
U - 3" O.D. 2.42" I.D. TUBE SAMPLE
T - 3" O.D. THIN-WALLED SHELBY TUBE

BOREHOLE LOG (SOIL)

INSTALLATION ID ECM 0687
LOCATION ID 15-5 (037)
DATE STARTED 4 Aug 88

LITHOLOGIC LOG

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
31	X		—	U	—		—	—	—	No recovery
33										
35										
37										
39										
41	X	.4		U			Oppm	N	GW	Gray Sandy Gravel
43										
45										
47										
49										
51	X	.6		U	037 0002		Oppm	N	GW	Saturated Gray Sandy Gravel
53										
55										
57										
59										
61	X	.9		U			Oppm	N	GW-SW	Saturated Gray sandy Gravel

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

WELL COMPLETION INFORMATION

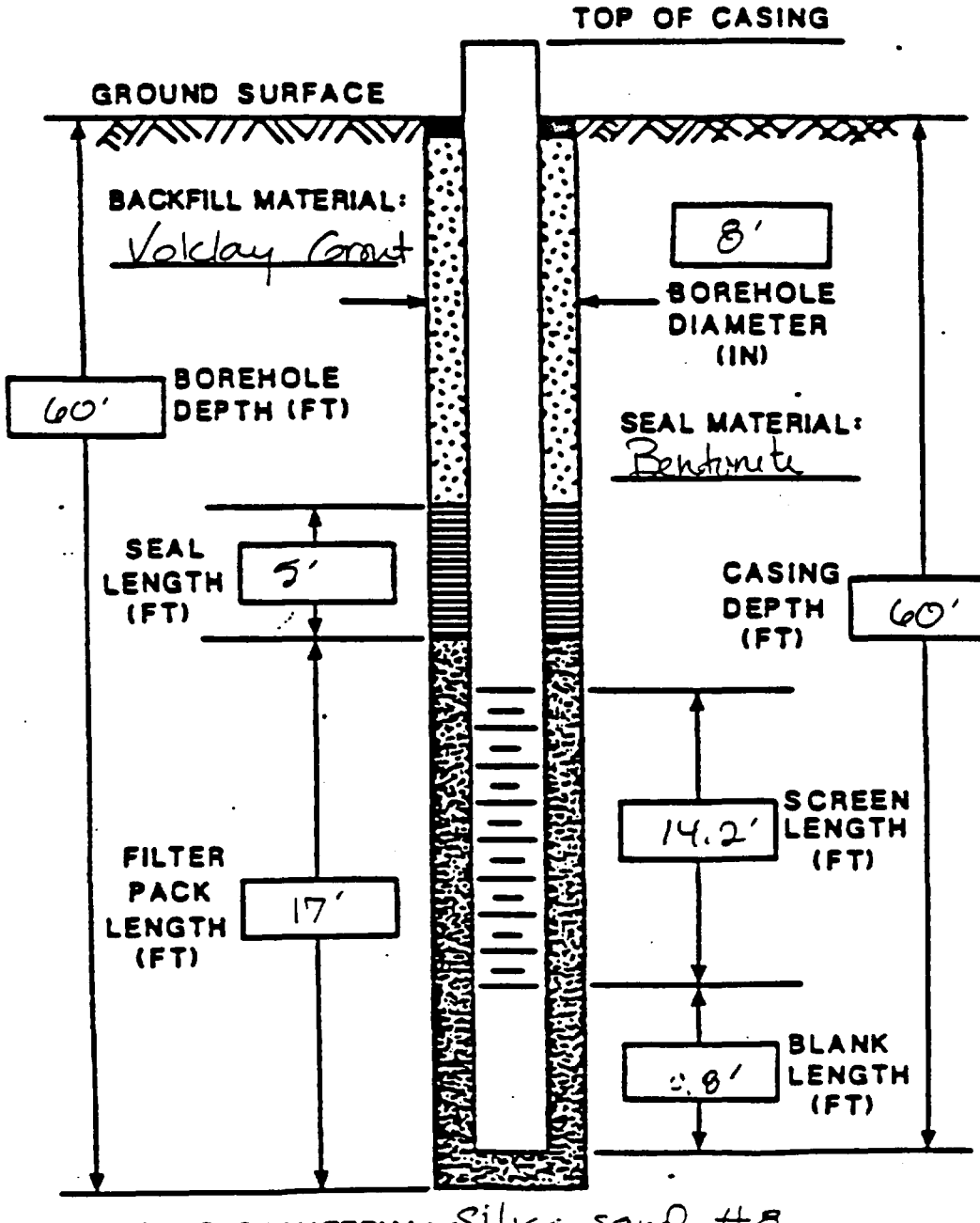
INSTALLATION ID Elm
LOCATION ID IS-6 (038)
WELL OWNER USAF
WELL TYPE CLASS. MW
FORMATION OF COMPLETION Qal

LOCATION TYPE WL
INSTALLATION DATE 8/2/88
INSTALLER H&S SB
WELL COMPLETION METHOD GS
ZONE OF COMPLETION Aquifer

SEAL END DEPTH (FT) 60'
MEAS. POINT ELEV. (FTMSL)
CASING DEPTH (FT) 60'
CASING DIAMETER (IN) 2' ID
CASING MATERIAL PVC

FILTER PACK LENGTH (FT) 17'
SCREEN BEGIN. DEPTH (FT) 45'
SCREEN LENGTH (FT) 14.2 ft
SCREEN SLOT SIZE (IN) 0.02

REMARKS Need to add about 2 ft of slip-joint to casing to bring well head up to ground level.



WELL TYPE CLASSIFICATIONS (WTCCODE)
- MNW - MONITORING WELL
- PRW - PRODUCTION WELL
- TST - TEST WELL
- WSW - WATER SUPPLY WELL

CASING MATERIAL (CMACODE)
- ABS - ABS
- BRK - BRICK
- CBS - CARBON STEEL
- CNC - CONCRETE
- COP - COPPER
- FBG - FIBERGLASS
- GLS - GALVANIZED STEEL
- WRI - WROUGHT IRON
- SLS - STAINLESS STEEL
- LCS - LOW CARBON STEEL
- M - OTHER METAL
- TFL - TEFLON
- PLY - POLYPROPYLENE
- PVC - PVC
- RST - ROCK OR STONE
- STL - STEEL
- TIL - TILE
- COS - COATED STEEL
- WD - WOOD

ZONE OF COMPLETION (GZCCODE)
- A - AQUIFER
- C - CONFINING LAYER

WELL COMPLETION METHODS: (WCMCODE)
- C - POROUS CONCRETE
- GP - GRAVEL PACK W/PEP
- GS - GRAVEL PACK W/SC
- H - HORIZONTAL GALLERY
- OE - OPEN END
- P - PERFORATED OR SLOTT
- S - SCREEN
- SP - SAND POINT
- W - WALLED OR SHORED
- OP - OPEN

BOREHOLE LOG (SOIL)

INSTALLATION ID Elm 0687 LOCATION ID IS-6 (038)
LOCATION TYPE BH LOCATION PROXIMITY I
COORDINATES (FT): NORTH _____ EAST _____
SURFACE ELEVATION (FTMSL) _____
DRILLER CODE _____ CONSTRUCTION METHOD HS
DATE STARTED 1 Aug 88 DATE COMPLETED _____
BOREHOLE DEPTH (FT.) _____ BOREHOLE DIAM. (IN) 8 IN

GROUNDWATER LEVELS		
DATE	TIME	DEPTH (FT)
9/2/88	09:15	50' 9½"

LOCATION DESCRIPTION
160 ft W of SW corner of Hangar 15 (bldg 43-450) 16 ft south of ramp in grassy area

MAP REFERENCE ID _____ LOCATION CROSS REFERENCE _____

LITHOLOGIC LOG LOGGER CODE _____

	DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
1500	1 -	↓	↓	N	A			0	N	GW	0-7½ ft: Brown sandy gravel with
	3 -										some silt slightly moist
1525	5 -	T	T	T	U	038 0001		0	N		dense occasion 4 in cobbles
	7 -	↓	↓	↓						GW	7-17 ft: Gray-Brown sand, gravel
	9 -										with trace silt occasional
1540	11 -	↓	↓		U			0	N		cobbles to 4 in moist very dense
	13 -										
1600	15 -	T	T		U			0	N		
	17 -	↓	↓							GW	17-24 ft: Gray-brown sandy
	19 -										gravel with some silt occa-
1620	21 -	↓	↓		U			0	N		sional cobbles to 4 in moist
	23 -										extremely dense
1635	25 -	R	R		U						24-27 ft: COBBLES
	27 -										27-50 Gray brown sandy gravel with
	29										trace silt, numerous cobbles

LOCATION PROXIMITY (LPRCODE)
I - WITHIN INSTALLATION O - OUTSIDE INSTALLATION

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST (Form)

CONSTRUCTION METHODS (CMCCODE)
- AR - AIR ROTARY
- B - BORED OR AUGERED
- C - CABLE-TOOL
- D - DUG
- HS - HOLLOW STEM AUGER
- J - JETTED
- P - AIR-PERCUSSION
- RM - REVERSE ROTARY, MUD
- T - TRENCHING
- V - DRIVEN
- W - DRIVE AND WASH

SAMPLE METHODS (SSMCODE)
- A - AUGER CUTTINGS
- S - 2" O.D. 1.38" I.D. DRIVE SAMPLE
- U - 3" O.D. 2.42" I.D. TUBE SAMPLE
- T - 3" O.D. THIN-WALLED SHELBY TUBE

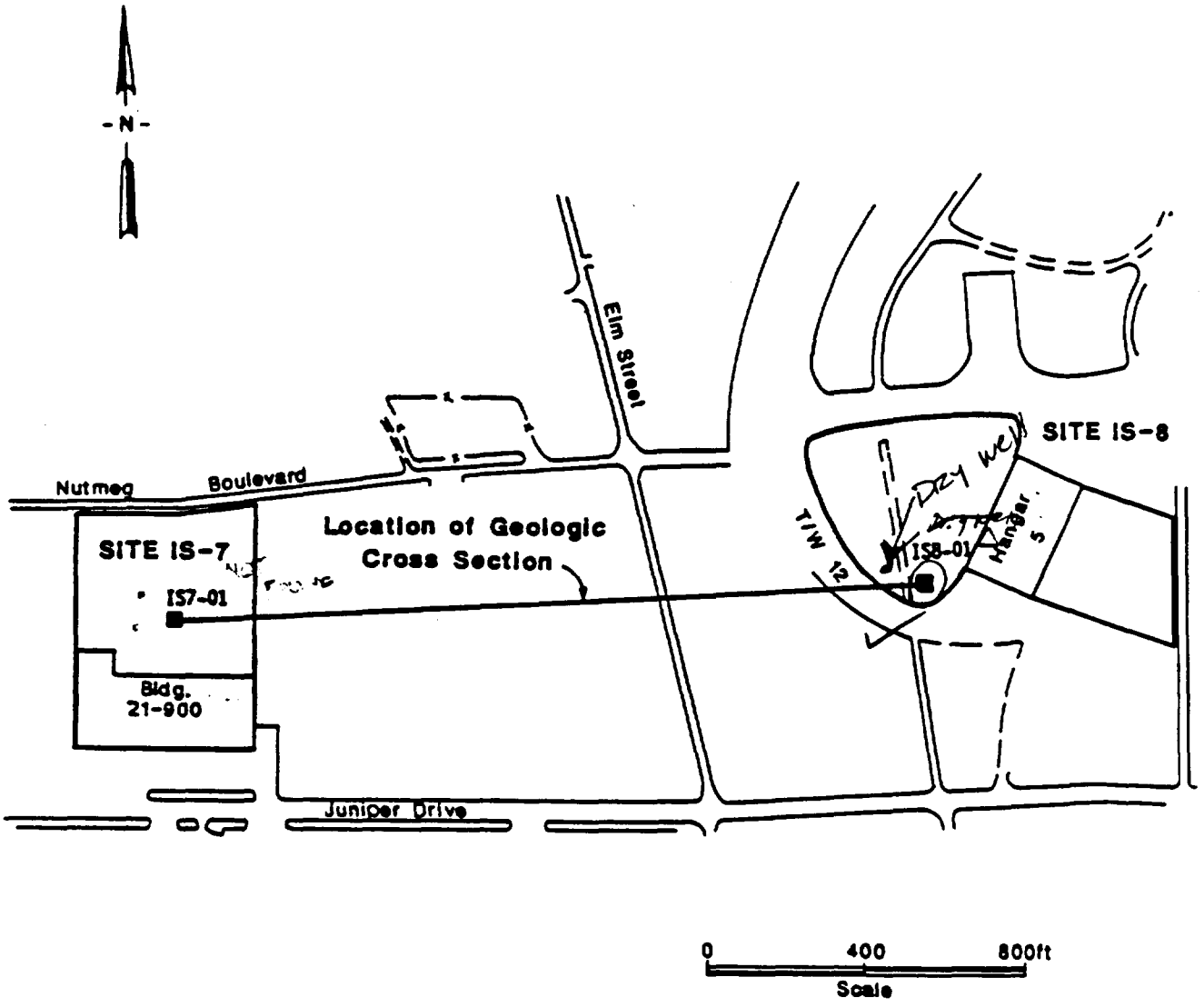
BOREHOLE LOG (SOIL)

INSTALLATION ID SLM 0687
LOCATION ID IS-6 (038)
DATE STARTED 1 Aug 88

LITHOLOGIC LOG

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE ↓	VISUAL DESCRIPTION
31	↓	↓		U			0	N	GW	(cont.) moist, extremely dense
33										
35										
37										
39										
41	↓	↓		U			0	N		
43										
45										
47										
49										50-59 feet large gravel w/ sand grey -6
51	↓	↓	↓	U	038 0007		0.1	N	GW	HNU @ 8:55a, moist, loose material
53	↓	↓	↓							water @ 50' 9½".
55										
57										
59										59-60 feet small gravel, grey-brown
61	↓	↓		U			0	N	GW	loose, sandy gravel, wet
										TD = 60' 2" ID Monitoring
										well installed

CLASS/CODE - SEE SAITCODE LIST, THEN APPROPRIATE CODE LIST



Legend:

IS7-01
■ Monitoring Well Location Stage 3

△ Dry Well Location

LOCATION MAP
SITES IS-7 & IS-8

IRP Stage 3 RI/FS Elmendorf AFB, AK	Figure 4.2.8.3

SD30/SD31 0114

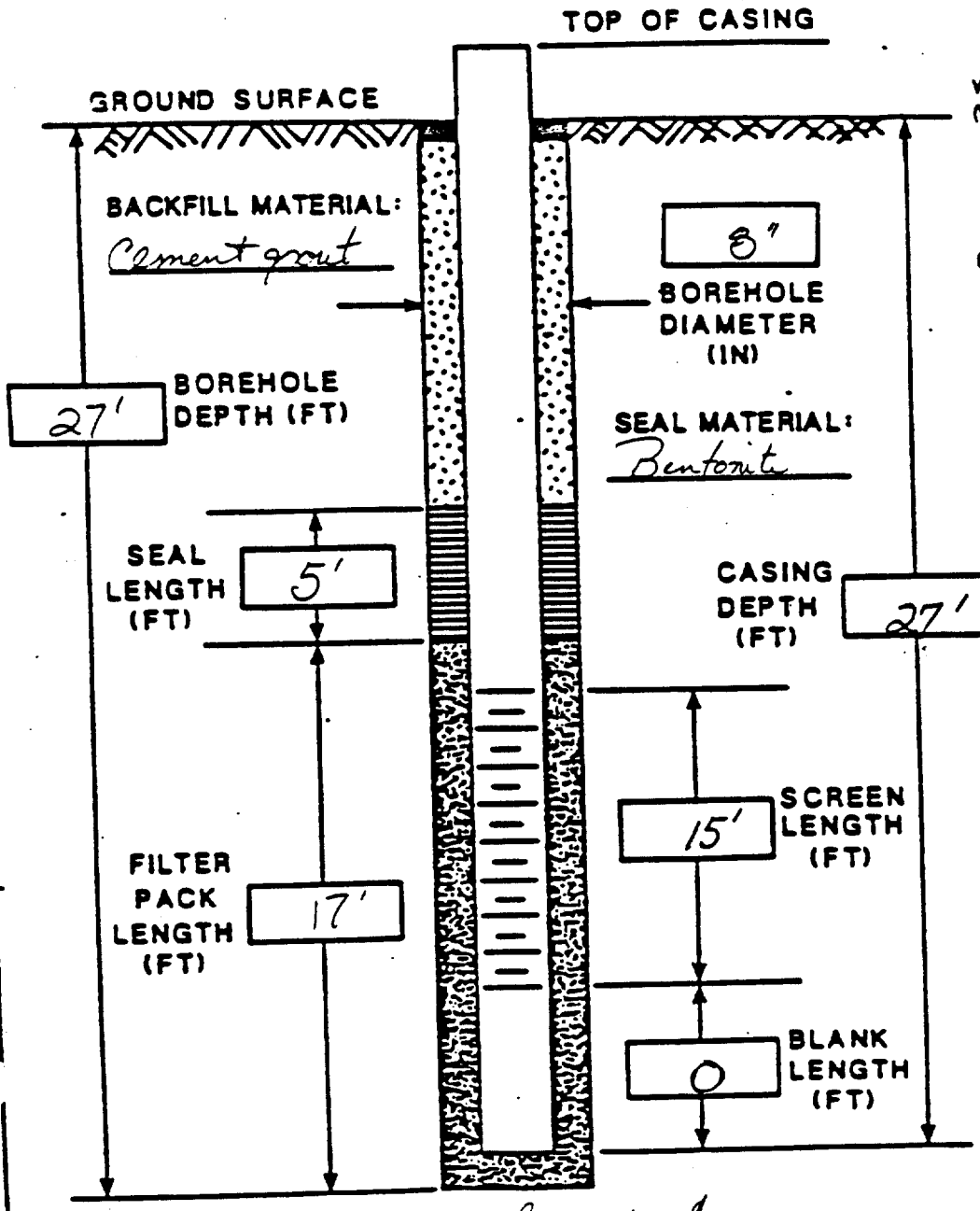
WELL COMPLETION INFORMATION

INSTALLATION ID ELM 0687
LOCATION ID IS7-01(039)
WELL OWNER USAF
WELL TYPE CLASS. MNW
FORMATION OF COMPLETION gravel/sand

LOCATION TYPE WL
INSTALLATION DATE July 22 1988
INSTALLER LW
WELL COMPLETION METHOD GS
ZONE OF COMPLETION 12'-27' below surface

SEAL END DEPTH (FT) 20'
MEAS. POINT ELEV. (FTMSL)
CASING DEPTH (FT) 27'
CASING DIAMETER (IN) 2"
CASING MATERIAL PVC
REMARKS

FILTER PACK LENGTH (FT) 17'
SCREEN BEGIN. DEPTH (FT) 12'
SCREEN LENGTH (FT) 15'
SCREEN SLOT SIZE (IN) .01



WELL TYPE CLASSIFICATIONS (WTCODE)
- MNW - MONITORING WELL
- PRW - PRODUCTION WELL
- TST - TEST WELL
- WSW - WATER SUPPLY WELL

CASING MATERIAL (CMACODE)
- ABS - ABS
- BRK - BRICK
- CBS - CARBON STEEL
- CNC - CONCRETE
- COP - COPPER
- FBG - FIBERGLASS
- GLS - GALVANIZED STEEL
- WRI - WROUGHT IRON
- SLS - STAINLESS STEEL
- LCS - LOW CARBON STEEL
- M - OTHER METAL
- TFL - TEFLON
- PLY - POLYPROPYLENE
- PVC - PVC
- RST - ROCK OR STONE
- STL - STEEL
- TIL - TILE
- COS - COATED STEEL
- WD - WOOD

ZONE OF COMPLETION (GZCCODE)
- A - AQUIFER
- C - CONFINING LAYER

WELL COMPLETION METHODS: (WCMCODE)
- C - POROUS CONCRETE
- GP - GRAVEL PACK W/PERF.
- GS - GRAVEL PACK W/SCREE
- H - HORIZONTAL GALLERY
- OE - OPEN END
- P - PERFORATED OR SLOTTE
- S - SCREEN
- SP - SAND POINT
- W - WALLED OR SHORED
- OP - OPEN

BOREHOLE LOG (SOIL)

INSTALLATION ID ELM 0687 LOCATION ID ISB-01(039)
LOCATION TYPE BH LOCATION PROXIMITY I
COORDINATES (FT): NORTH ____ EAST ____
SURFACE ELEVATION (FTMSL) ____
DRILLER CODE CME-SS CONSTRUCTION METHOD HS
DATE STARTED July 22, 1988 DATE COMPLETED July 22 1988
BOREHOLE DEPTH (FT.) ____ BOREHOLE DIAM. (IN) 8"

GROUNDWATER LEVELS		
DATE	TIME	DEPTH (FT)
July 22, 1988	1310	13'11" surface

LOCATION DESCRIPTION
Behind the transportation Bldg - flush mount well in cargo storage area

MAP REFERENCE ID ____ LOCATION CROSS REFERENCE ____

LITHOLOGIC LOG LOGGER CODE AW

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
1										
3									GM	dk brown silty sandy gravel, loose
5		12"		U			0		GW	brown sandy gravel, trace silt
7	↓									
9										
11	↓	9"		U			0		GW	brown sandy gravel, trace silt, coal fragments
13										
15	↓	16"	↓	U	039/001		0		GW/SW	gray sandy gravel grading to gravelly sand, clean, wet
17	↓		↓	B						
19										
21	↓		↓	U	039/002		0		SW/GW	gray sand grading into sandy gravel, clean, wet
23										
25										TD 27' - Completed as
27				R						Monitoring well
29										

LOCATION PROXIMITY (LPRCODE)
I - WITHIN INSTALLATION O - OUTSIDE INSTALLATION

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

CONSTRUCTION METHODS (CMCCODE)
- AR - AIR ROTARY
- B - BORED OR AUGERED
- C - CABLE-TOOL
- D - DUG
- HS - HOLLOW STEM AUGER
- J - JETTED
- P - AIR-PERCUSSION
- RM - REVERSE ROTARY, MUD
- T - TRENCHING
- V - DRIVEN
- W - DRIVE AND WASH

SAMPLE METHODS (SSMCODE)
- A - AUGER CUTTINGS
- S - 2" O.D. 1.38" I.D. DRIVE SAMPLE
- U - 3" O.D. 2.42" I.D. TUBE SAMPLE
- T - 3" O.D. THIN-WALLED SHELBY TUBE

WELL COMPLETION INFORMATION

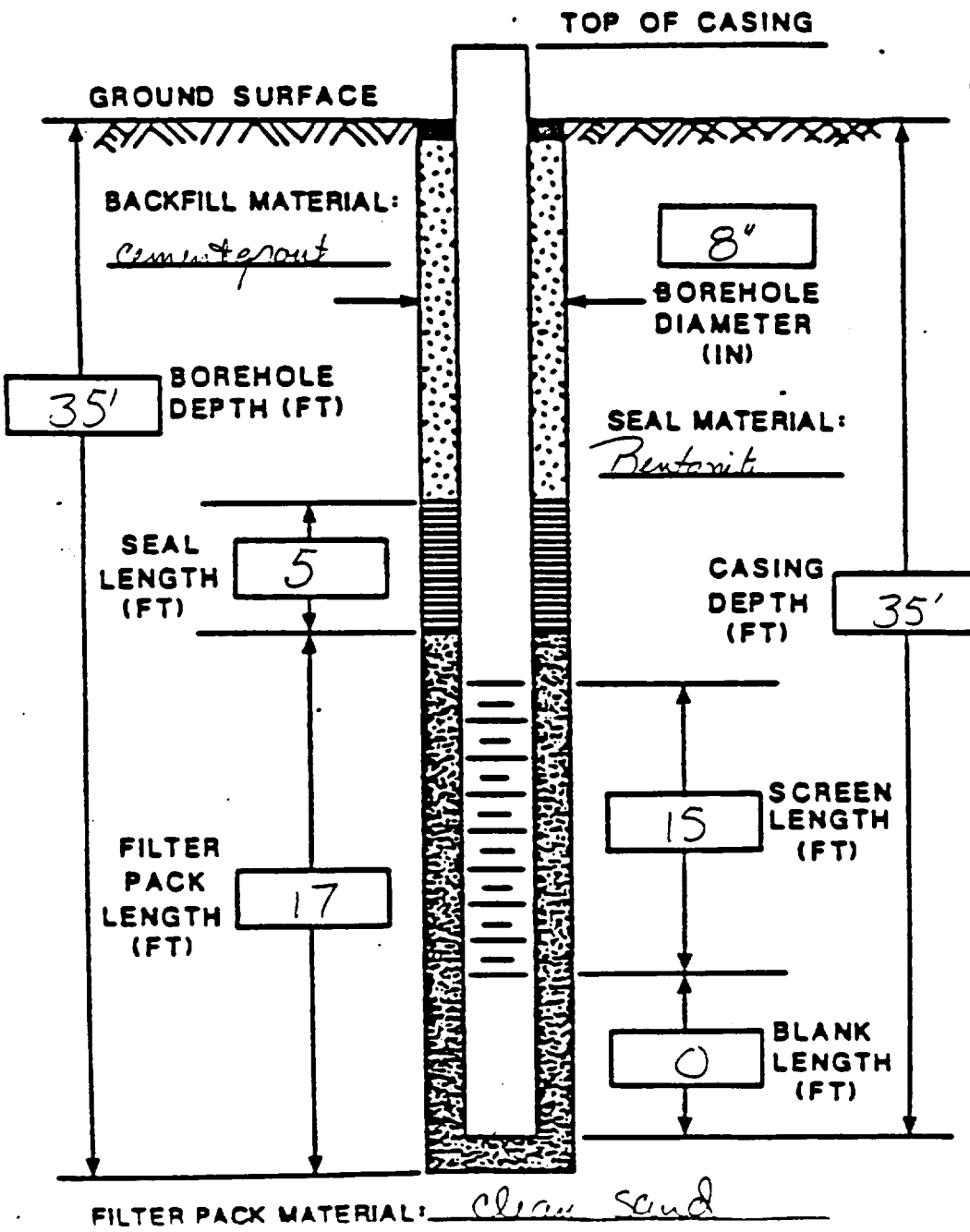
INSTALLATION ID ELM 0687
LOCATION ID IS8-01(040)
WELL OWNER AF
WELL TYPE CLASS MNW
FORMATION OF COMPLETION

LOCATION TYPE WL
INSTALLATION DATE July 22, 1986
INSTALLER AW
WELL COMPLETION METHOD GS
ZONE OF COMPLETION E

SEAL END DEPTH (FT) 18'
MEAS. POINT ELEV. (FTMSL)
CASING DEPTH (FT) 35'
CASING DIAMETER (IN) 2"
CASING MATERIAL PVC

FILTER PACK LENGTH (FT) 17'
SCREEN BEGIN. DEPTH (FT) 35'
SCREEN LENGTH (FT) 15'
SCREEN SLOT SIZE (IN)

REMARKS



WELL TYPE CLASSIFICATIONS (WTCODE)

- MNW - MONITORING WELL
- PRW - PRODUCTION WELL
- TST - TEST WELL
- WSW - WATER SUPPLY WELL

CASING MATERIAL (CMACODE)

- ABS - ABS
- BRK - BRICK
- CBS - CARBON STEEL
- CNC - CONCRETE
- COP - COPPER
- FBG - FIBERGLASS
- GLS - GALVANIZED STEEL
- WRI - WROUGHT IRON
- SLS - STAINLESS STEEL
- LCS - LOW CARBON STEEL
- M - OTHER METAL
- TFL - TEFLON
- PLY - POLYPROPYLENE
- PVC - PVC
- RST - ROCK OR STONE
- STL - STEEL
- TIL - TILE
- COS - COATED STEEL
- WD - WOOD

ZONE OF COMPLETION (GZCCODE)

- A - AQUIFER
- C - CONFINING LAYER

WELL COMPLETION METHODS (WCMCODE)

- C - POROUS CONCRETE
- GP - GRAVEL PACK W/PERF.
- GS - GRAVEL PACK W/SCF
- H - HORIZONTAL GALLERY
- OE - OPEN END
- P - PERFORATED OR SLOTTE
- S - SCREEN
- SP - SAND POINT
- W - WALLED OR SHORED
- OP - OPEN

BOREHOLE LOG (SOIL)

INSTALLATION ID ELM (0687) LOCATION ID IS8-01 (040)
LOCATION TYPE BH LOCATION PROXIMITY I
COORDINATES (FT): NORTH _____ EAST _____
SURFACE ELEVATION (FTMSL) _____
DRILLER CODE CME-SS CONSTRUCTION METHOD HS
DATE STARTED July 21, 1988 DATE COMPLETED July 22, 1988
BOREHOLE DEPTH (FT.) 35' BOREHOLE DIAM. (IN) 8"

GROUNDWATER LEVELS		
DATE	TIME	DEPTH (FT)
7/22/88	0755	21'11" surface

LOCATION DESCRIPTION
off of SW corner (w/ # on it) of building to the west just across drive.
~~posts around well~~

MAP REFERENCE ID _____ LOCATION CROSS REFERENCE _____

LITHOLOGIC LOG LOGGER CODE AW

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
1										
3										
5	T	6"		U			0	⊖	GM	Brown to dk brown silty gravel w/ silt
7	↓									
9										
11	↓	9"		U			0	⊖	GM/GW	dk. brown silty sandy gravel
13										
15	T	9"					0	⊖	GW	dk brown silty sandy gravel, some coal fragments
17	↓									
19										
21	↓	18"	↓		040/002		.5	⊖	GW	dk brown sandy gravel, some coa fragments
23										
25	T	18"	T		040/002		30	yes	GW/SW	gray coarse sand grading into silty gravel, wet
27	↓		↓							
29										

LOCATION PROXIMITY (LPRCODE)
I - WITHIN INSTALLATION O - OUTSIDE INSTALLATION

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

CONSTRUCTION METHODS (CMCCODE)
AR - AIR ROTARY
B - BORED OR AUGERED
C - CABLE-TOOL
D - DUG
HS - HOLLOW STEM AUGER
J - JETTED
P - AIR-PERCUSSION
RM - REVERSE ROTARY, MUD
T - TRENCHING
V - DRIVEN
W - DRIVE AND WASH

SAMPLE METHODS (SSMCODE)
A - AUGER CUTTINGS
S - 2" O.D. 1.38" I.D. DRIVE SAMPLE
U - 3" O.D. 2.42" I.D. TUBE SAMPLE
T - 3" O.D. THIN-WALLED SHELBY TUBE

BOREHOLE LOG (SOIL)

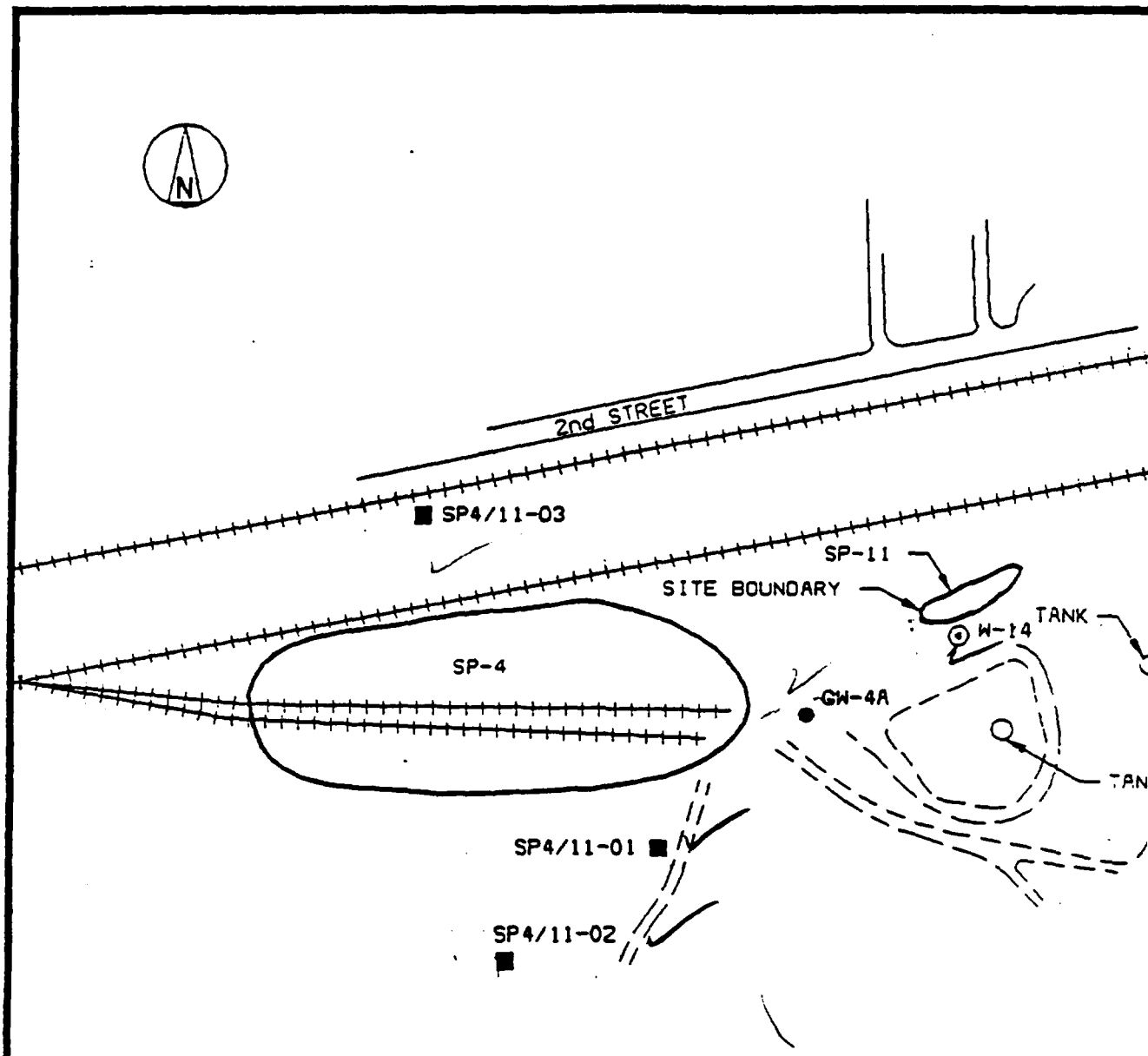
INSTALLATION ID ELM (0687)
LOCATION ID ISB-01 (040)

DATE STARTED July 21, 1988

LITHOLOGIC LOG

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
31										
33										
35										TD @ 35'
37		TD								completed as a
39										monitoring well
41										
43										
45										
47										
49										
51										
53										
55										
57										

CLASS/CODE - SEE SRTCODE LIST. THEN APPROPRIATE CODE LIST



LEGEND:

⊙ W-14	MONITORING WELL LOCATION, PHASE II, STAGE 1
● GW-4A	MONITORING WELL LOCATION, PHASE II, STAGE 2
■ SP4/11-03	MONITORING WELL LOCATION, STAGE 3
+++++++	RAILROAD

0 200 400ft

SCALE

LOCATION MAP

SITE SP-4

IRP Stage 3 RI/FS
Elmendorf AFB, AK

Figur
4.2.12

(SD 40 ST46)

C

WELL COMPLETION INFORMATION

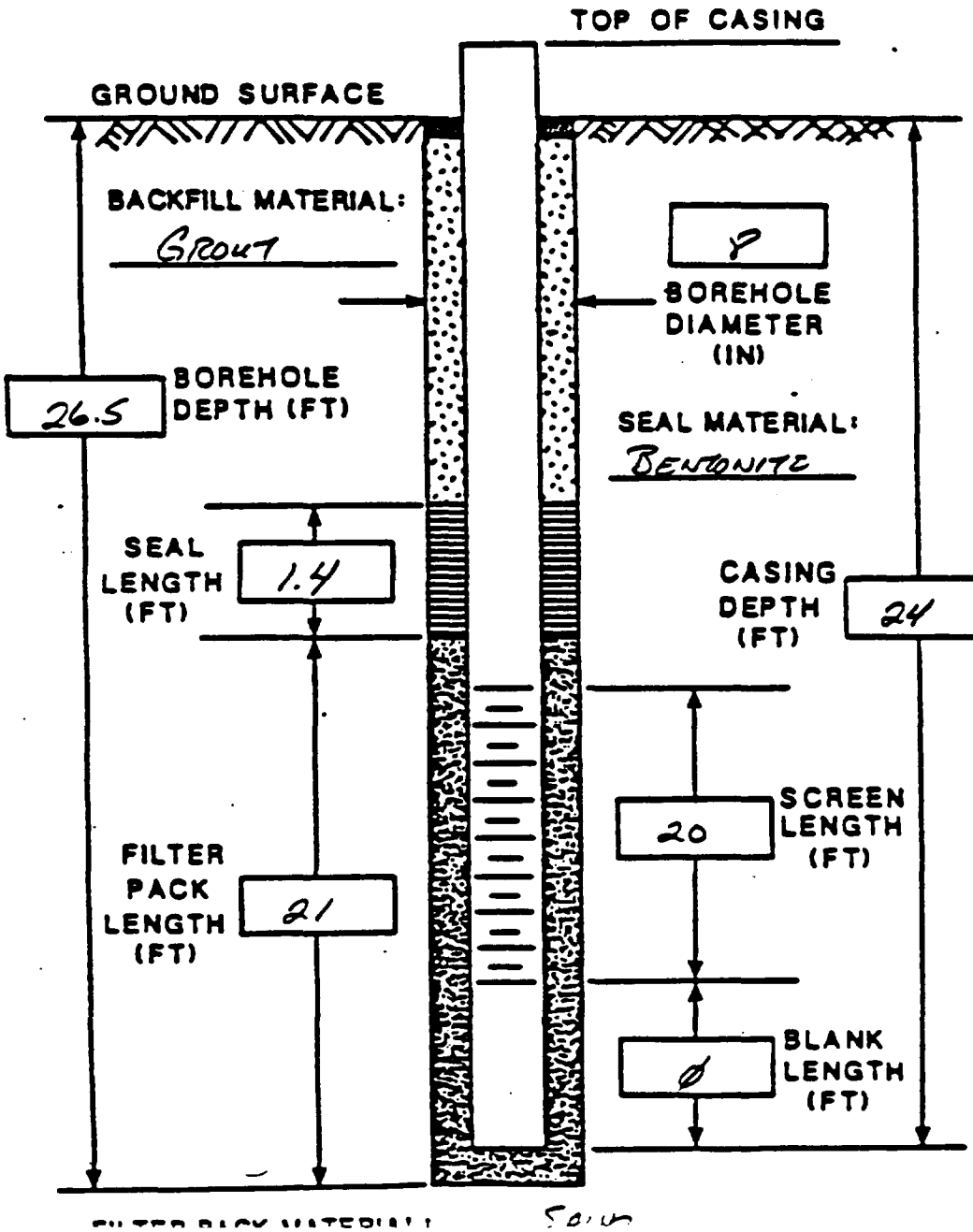
INSTALLATION ID ELMENDORF AFB
LOCATION ID SP4-01 (063)
WELL OWNER
WELL TYPE CLASS. MNW
FORMATION OF COMPLETION SAND/GRAVEL

LOCATION TYPE WL
INSTALLATION DATE 8/2/88
INSTALLER B&V
WELL COMPLETION METHOD GS
ZONE OF COMPLETION 24-4

SEAL END DEPTH (FT) 3.4
MEAS. POINT ELEV. (FTMSL)
CASING DEPTH (FT) 24
CASING DIAMETER (IN) 2"
CASING MATERIAL PVC

FILTER PACK LENGTH (FT) 21
SCREEN BEGIN. DEPTH (FT) 24
SCREEN LENGTH (FT) 20
SCREEN SLOT SIZE (IN) .01

REMARKS



WELL TYPE CLASSIFICATIONS (WTCODE)
- MNW - MONITORING WELL
- PRW - PRODUCTION WELL
- TST - TEST WELL
- WSW - WATER SUPPLY WELL

CASING MATERIAL (CMACODE)
- ABS - ABS
- BRK - BRICK
- CBS - CARBON STEEL
- CNC - CONCRETE
- COP - COPPER
- FBG - FIBERGLASS
- GLS - GALVANIZED STEEL
- WRI - WROUGHT IRON
- SLS - STAINLESS STEEL
- LCS - LOW CARBON STEEL
- M - OTHER METAL
- TFL - TEFLON
- PLY - POLYPROPYLENE
- PVC - PVC
- RST - ROCK OR STONE
- STL - STEEL
- TIL - TILE
- COS - COATED STEEL
- WD - WOOD

ZONE OF COMPLETION (GZCCODE)
- A - AQUIFER
- C - CONFINING LAYER

WELL COMPLETION METHODS: (WCMCODE)
- C - POROUS CONCRETE
- GP - GRAVEL PACK W/PERF
- GS - GRAVEL PACK W/SCI
- H - HORIZONTAL GALLERY
- OE - OPEN END
- P - PERFORATED OR SLOTTE
- S - SCREEN
- SP - SAND POINT
- W - WALLED OR SHORED
- OP - OPEN

FILTER PACK MATERIAL: SAND

BOREHOLE LOG (SOIL)

INSTALLATION ID ELMENDORF AFB — LOCATION ID SP4-01-WELL (063)
LOCATION TYPE BH — LOCATION PROXIMITY ____
COORDINATES (FT): NORTH ____ EAST ____
SURFACE ELEVATION (FTMSL) ____
DRILLER CODE DD — CONSTRUCTION METHOD HS
DATE STARTED 12/2/92 — DATE COMPLETED 12/2/92
BOREHOLE DEPTH (FT.) 26.5 ft — BOREHOLE DIAM. (IN) 12

GROUNDWATER LEVELS		
DATE	TIME	DEPTH (FT)
12/2/92		5 ft BTOC

LOCATION DESCRIPTION

MAP REFERENCE ID ____ LOCATION CROSS REFERENCE ____

LITHOLOGIC LOG — LOGGER CODE ____

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
2									CL	CLAY - SOFT, DK. BROWN, LOW PLASTIC
4										GRAVEL - DENSE, VARIED COLORS, GRAINS TO COBBLE SIZE, SUB-ROUNDED, POORLY SORTED, V. CLAYEY, SANDY, SILTY, W/ORGANIC MATTER
6	↕	9"		4			.5ppm	N	GC	
8										
10										
12	↕	11"		4	063 0001		N	N		
14										SAND - DENSE, DK. GRAY, FINE TO V. COARSE GRAINED, POORLY SORTED, ROUNDED, V. CLAYEY - TO SILTY W/ GRAINS TO GRAVEL SIZE
16	↕	9"		4			N	N		
18									SP	
20										
22	↕	18"		4			N	N		
24										
26	↕	18"		4	063 0002		N	N		
28										
30										

LOCATION PROXIMITY (LPRCODE)
I - WITHIN INSTALLATION O - OUTSIDE INSTALLATION

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

CONSTRUCTION METHODS (CMCCODE)
- AR - AIR ROTARY
- B - BORED OR AUGERED
- C - CABLE-TOOL
- D - DUG
- HS - HOLLOW STEM AUGER
- J - JETTED
- P - AIR-PERCUSSION
- RM - REVERSE ROTARY, MUD
- T - TRENCHING
- V - DRIVEN
- W - DRIVE AND WASH

SAMPLE METHODS (SSMCODE)
- A - AUGER CUTTINGS
- S - 2" O.D. 1.38" I.D. DRIVE SAMPLE
- U - 3" O.D. 2.42" I.D. TUBE SAMPLE
- T - 3" O.D. THIN-WALLED SHELBY TUBE

WELL COMPLETION INFORMATION

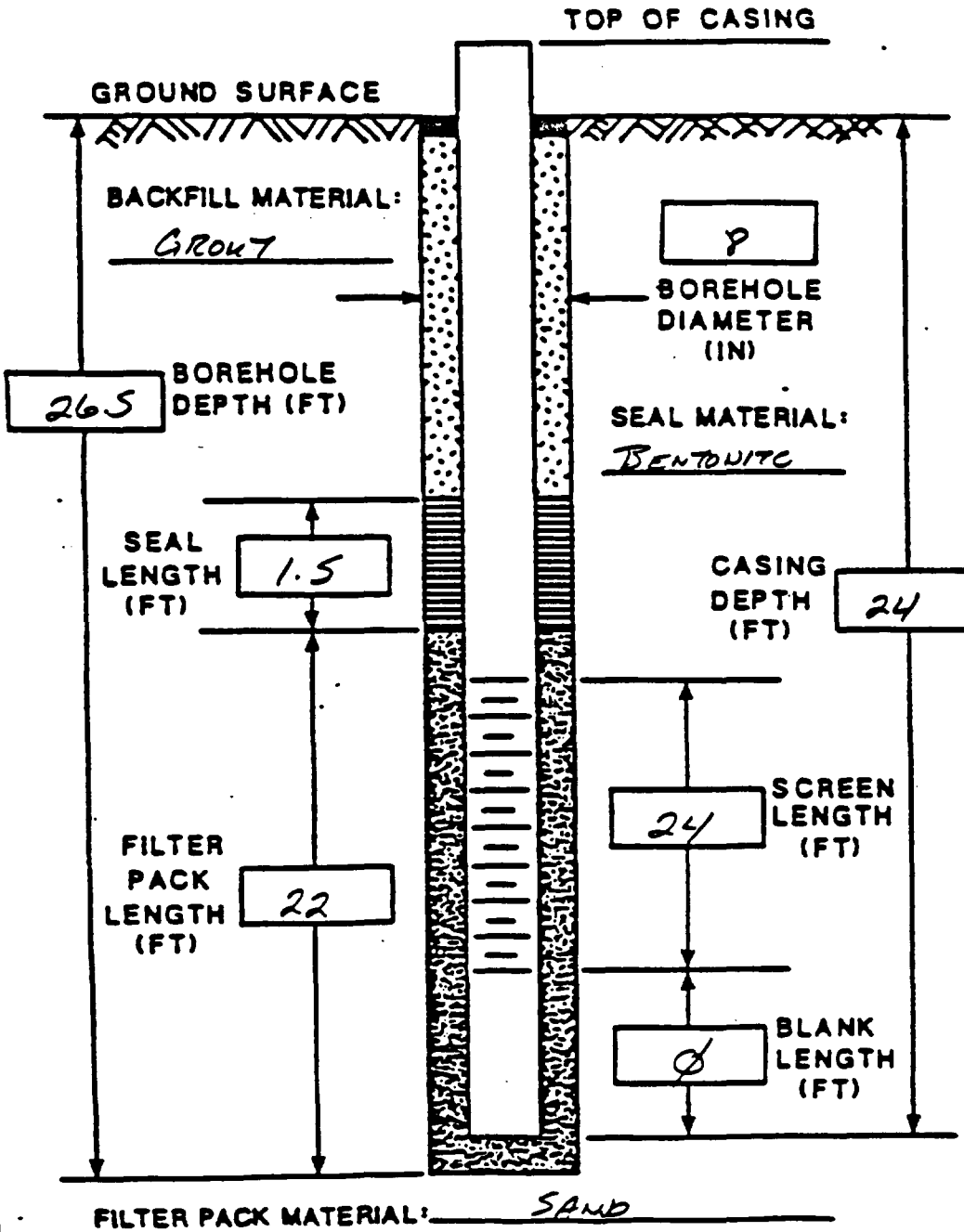
INSTALLATION ID ELMENDORF AFB
LOCATION ID SP4-02 (064)
WELL OWNER
WELL TYPE CLASS MNW
FORMATION OF COMPLETION SAND/GRAVEL

LOCATION TYPE WL
INSTALLATION DATE 8/2/88
INSTALLER B&V
WELL COMPLETION METHOD GS
ZONE OF COMPLETION 24-4

SEAL END DEPTH (FT) 2.5
MEAS. POINT ELEV. (FTMSL)
CASING DEPTH (FT) 24
CASING DIAMETER (IN) 2"
CASING MATERIAL PVC

FILTER PACK LENGTH (FT) 22
SCREEN BEGIN. DEPTH (FT) 24
SCREEN LENGTH (FT) 20
SCREEN SLOT SIZE (IN) .01

REMARKS



WELL TYPE CLASSIFICATIONS (WTCODE)

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- PRW - PRODUCTION WELL
- TST - TEST WELL
- WSW - WATER SUPPLY WELL

CASING MATERIAL (CMACODE)

- ABS - ABS
- BRK - BRICK
- CBS - CARBON STEEL
- CNC - CONCRETE
- COP - COPPER
- FBG - FIBERGLASS
- GLS - GALVANIZED STEEL
- WRI - WROUGHT IRON
- SLS - STAINLESS STEEL
- LCS - LOW CARBON STEEL
- M - OTHER METAL
- TFL - TEFLON
- PLY - POLYPROPYLENE
- PVC - PVC
- RST - ROCK OR STONE
- STL - STEEL
- TIL - TILE
- COS - COATED STEEL
- WD - WOOD

ZONE OF COMPLETION (GZCCODE)

- A - AQUIFER
- C - CONFINING LAYER

WELL COMPLETION METHODS: (WCMCODE)

- C - POROUS CONCRETE
- GP - GRAVEL PACK W/PERF.
- GS - GRAVEL PACK W/SCREEN
- H - HORIZONTAL GALLERY
- OE - OPEN END
- P - PERFORATED OR SLOTTE
- S - SCREEN
- SP - SAND POINT
- W - WALLED OR SHORED
- OP - OPEN

BOREHOLE LOG (SOIL)

INSTALLATION ID Elmendorf AFB LOCATION ID SP4-02-WELL (064)
LOCATION TYPE BH LOCATION PROXIMITY ____
COORDINATES (FT): NORTH ____ EAST ____
SURFACE ELEVATION (FTMSL) ____
DRILLER CODE DD CONSTRUCTION METHOD HS
DATE STARTED 8/2/88 DATE COMPLETED 8/2/88
BOREHOLE DEPTH (FT.) 26.5' BOREHOLE DIAM. (IN) 8

GROUNDWATER LEVELS		
DATE	TIME	DEPTH (FT)
8/2/88		3'-10" ATD

LOCATION DESCRIPTION

MAP REFERENCE ID ____ LOCATION CROSS REFERENCE ____

LITHOLOGIC LOG LOGGER CODE RH

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
2									CL	CLAY - SOFT, DK. BROWN, LOW PLASTIC, TUFFACEOUS
4										
6		9'		U			N	N	GC	GRAVEL - MED. DENSE, VARIED COLORS, MED. TO V. COARSE PEBBLE SIZE, SUB-ROUNDED, POORLY SORTED
8										
10										
12		11"		U	064 0001		N	N		SAND - DENSE DK. GRAY, FINE TO COARSE GRAINED, POORLY SORTED, ROUNDED W/ GRANULE TO PEBBLE GRAVELS, V. CLAYEY, SILTY
14										
16		19'		U			N	N		
18									SP	
20										SAND - DENSE DK GRAY FINE TO COARSE GRAINED, MOD. WELL SORTED, ROUNDED, CLAYEY, SILTY W/ GRANULE TO PEBBLE
22		18"		U			N	N		
24										
26		18'		U	064 0002		N	N		
28										
30										

LOCATION PROXIMITY (LPRCODE)
I - WITHIN INSTALLATION O - OUTSIDE INSTALLATION

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

CONSTRUCTION METHODS (CMCCODE)
- AR - AIR ROTARY
- B - BORED OR AUGERED
- C - CABLE-TOOL
- D - DUG
- HS - HOLLOW STEM AUGER
- J - JETTED
- P - AIR-PERCUSSION
- RM - REVERSE ROTARY, MUD
- T - TRENCHING
- V - DRIVEN
- W - DRIVE AND WASH

SAMPLE METHODS (SSMCODE)
- A - AUGER CUTTINGS
- S - 2" O.D. 1.38" I.D. DRIVE SAMPLE
- U - 3" O.D. 2.42" I.D. TUBE SAMPLE
- T - 3" O.D. THIN-WALLED SHELBY TUBE

WELL COMPLETION INFORMATION

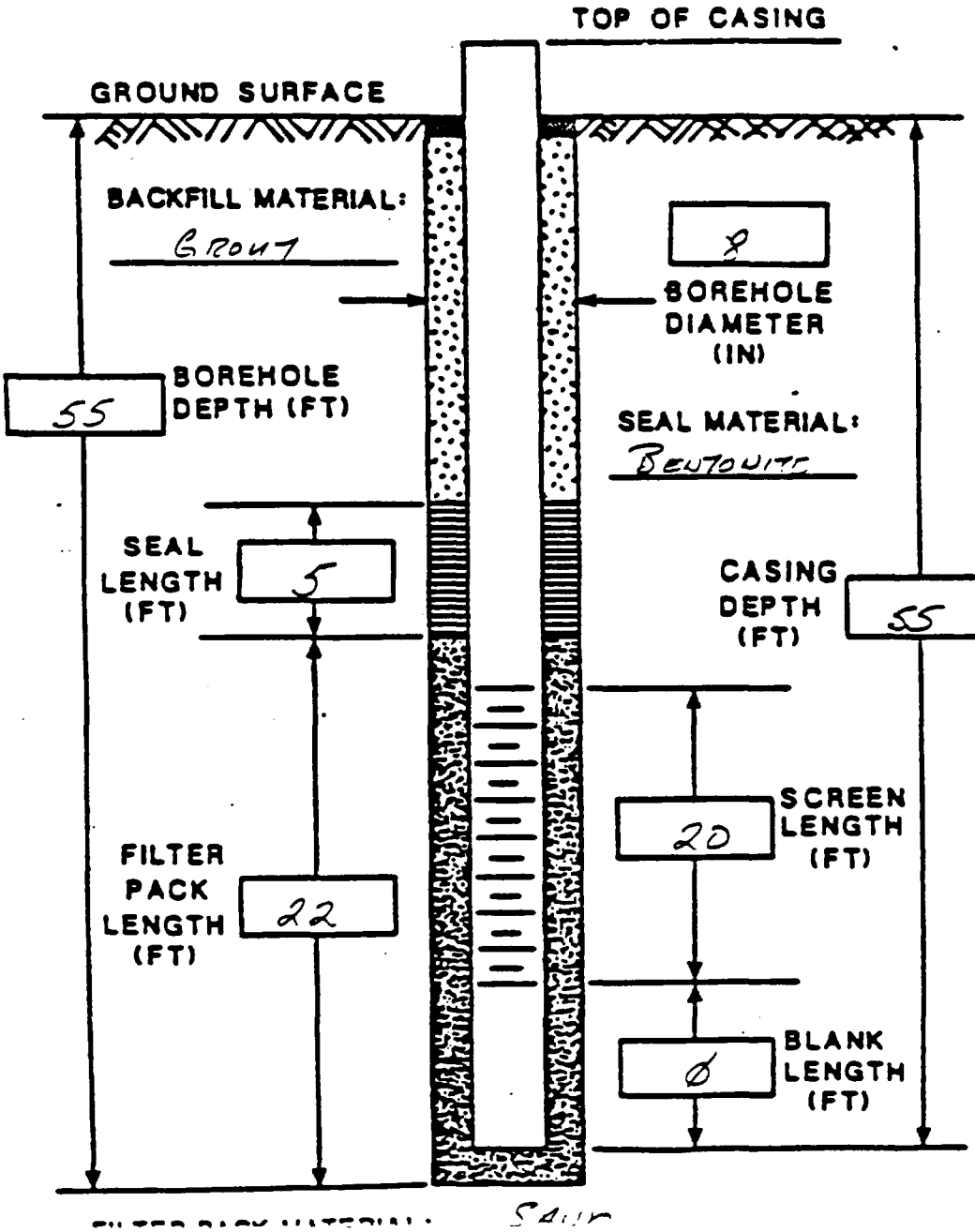
INSTALLATION ID ELMENDORF AFB
LOCATION ID SP24-03 (065)
WELL OWNER
WELL TYPE CLASS. MNW
FORMATION OF COMPLETION SAND

LOCATION TYPE WL
INSTALLATION DATE 8/4/88
INSTALLER E+V
WELL COMPLETION METHOD GS
ZONE OF COMPLETION SS-35

SEAL END DEPTH (FT) 33
MEAS. POINT ELEV. (FTMSL)
CASING DEPTH (FT) 55
CASING DIAMETER (IN) 2
CASING MATERIAL PVC

FILTER PACK LENGTH (FT) 22
SCREEN BEGIN. DEPTH (FT) 55
SCREEN LENGTH (FT) 20
SCREEN SLOT SIZE (IN) .01

REMARKS



WELL TYPE CLASSIFICATIONS (WTCODE)
- MNW - MONITORING WELL
- PRW - PRODUCTION WELL
- TST - TEST WELL
- WSW - WATER SUPPLY WELL

CASING MATERIAL (CMACODE)
- ABS - ABS
- BRK - BRICK
- CBS - CARBON STEEL
- CNC - CONCRETE
- COP - COPPER
- FBG - FIBERGLASS
- GLS - GALVANIZED STEEL
- WRI - WROUGHT IRON
- SLS - STAINLESS STEEL
- LCS - LOW CARBON STEEL
- M - OTHER METAL
- TFL - TEFLON
- PLY - POLYPROPYLENE
- PVC - PVC
- RST - ROCK OR STONE
- STL - STEEL
- TIL - TILE
- COS - COATED STEEL
- WD - WOOD

ZONE OF COMPLETION (GZCCODE)
- A - AQUIFER
- C - CONFINING LAYER

WELL COMPLETION METHODS: (WCMCODE)
- C - POROUS CONCRETE
- GP - GRAVEL PACK W/PERF
- GS - GRAVEL PACK W/SCR
- H - HORIZONTAL GALLERY
- OE - OPEN END
- P - PERFORATED OR SLOTTE
- S - SCREEN
- SP - SAND POINT
- W - WALLED OR SHORED
- OP - OPEN

BOREHOLE LOG (SOIL)

INSTALLATION ID ELMENDORF AFB LOCATION ID SP4-03-WBL (065)
LOCATION TYPE BH LOCATION PROXIMITY ____
COORDINATES (FT): NORTH ____ EAST ____
SURFACE ELEVATION (FTMSL) ____
DRILLER CODE DD CONSTRUCTION METHOD HS
DATE STARTED 8/4/88 DATE COMPLETED 8/4/88
BOREHOLE DEPTH (FT.) 55½ BOREHOLE DIAM. (IN) 8"

GROUNDWATER LEVELS		
DATE	TIME	DEPTH (FT)
8/4/88		38' ATD

LOCATION DESCRIPTION

MAP REFERENCE ID ____ LOCATION CROSS REFERENCE ____

LITHOLOGIC LOG LOGGER CODE ____

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
2							200ppm cuttings	yes		CLAY - SOFT, LT. BROWN, MED. PLASTIC
4									CL	W/GRANULE TO COARSE PEBBLE GRAVELS, SILTY, DRY
6	↕	16"		U	064 0001		200ppm sample	yes		
8										GRAVEL - DENSE, VARIED COLORS, GRANULE TO COBBLE SIZE, POORLY SORTED ROUNDED, V. CLAYEY, SANDY, SILTY
10									GC	
12	↕	14"		U			40ppm sample	yes		
14										SAND - DENSE, MED BROWN, MED TO V. COARSE GRAINED, POORLY SORTED, ROUNDED, V. CLAYEY W/GRANULE TO COARSE PEBBLE GRAVELS, WET.
16	↕	17"		U			50ppm sample	yes		
18										
20										
22	↕	17"		U			2000ppm sample	yes	SP	
24										
26	↕	16"		U			2100ppm sample	yes		SAND - DENSE, MED. BROWN, MED. TO V. COARSE GRAINED, POORLY SORTED, SUB-ANGULAR TO ROUNDED, V. CLAYEY W/GRANULE TO COARSE PEBBLE GRAVELS, WET.
28										
30										

LOCATION PROXIMITY (LPRCODE)
I - WITHIN INSTALLATION O - OUTSIDE INSTALLATION

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

CONSTRUCTION METHODS (CMCCODE)
- AR - AIR ROTARY
- B - BORED OR AUGERED
- C - CABLE-TOOL
- D - DUG
- HS - HOLLOW STEM AUGER
- J - JETTED
- P - AIR-PERCUSSION
- RM - REVERSE ROTARY, MUD
- T - TRENCHING
- V - DRIVEN
- W - DRIVE AND WASH

SAMPLE METHODS (SSMCODE)
- A - AUGER CUTTINGS
- S - 2" O.D. 1.38" I.D. DRIVE SAMPLE
- U - 3" O.D. 2.42" I.D. TUBE SAMPLE
- T - 3" O.D. THIN-WALLED SHELBY TUBE

BOREHOLE LOG (SOIL)

INSTALLATION ID ELMENDORF AFB
LOCATION ID SP4-03
DATE STARTED 8/4/88

LITHOLOGIC LOG

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
32	↕	16"		4			440+	N		
34										
36									SP	SAND - DENSE, MED. BRWN, LOOSE TO
38										V. COARSE GRAINED, POORLY SORTED,
40										ROUNDED, V. CLAYEY, GRAINED TO MED. POORLY GRADED, WET
42	↕	17"		4			N	N		
44										
46										
48									SP	
50										
52	↕	15"		4			N	N		
54										
56										

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

MONITOR WELL INFORMATION SHEET

GROUND SURFACE ELEVATION 135.6

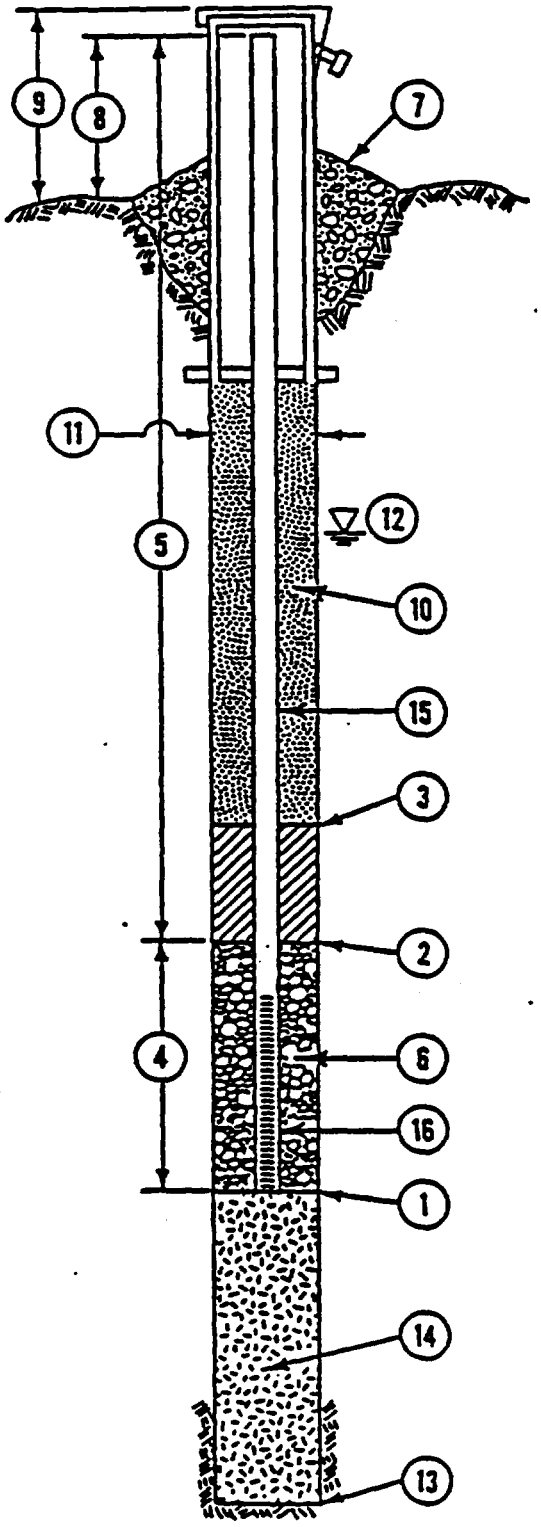
TOP OF WELL CASING ELEVATION 139.39

JOB NUMBER 1016-265

BORING NUMBER GW4-A

DATE 9/11/86

LOCATION Elmendorf AFB



1. DEPTH TO BOTTOM OF WELL POINT OR SLOTTED PIPE 11.0 FEET.*
2. DEPTH TO BOTTOM OF SEAL (IF INSTALLED) 1.0 FEET.*
3. DEPTH TO TOP OF SEAL (IF INSTALLED) 0 FEET.*
4. LENGTH OF WELL SCREEN 10 FEET. SLOT SIZE 0.010.
5. TOTAL LENGTH OF PIPE 14.78 FEET AT 2 INCH DIAMETER.
6. TYPE OF PACK AROUND WELL POINT OR SLOTTED PIPE Sand.
7. CONCRETE CAP. (YES) NO (CIRCLE ONE)
8. HEIGHT OF WELL CASING ABOVE GROUND 3.73 FEET.
9. PROTECTIVE CASING? (YES) NO (CIRCLE ONE) HEIGHT ABOVE GROUND 4.06 FEET. LOCKING CAP? (YES) NO (CIRCLE ONE)
10. TYPE OF UPPER BACKFILL —.
11. BOREHOLE DIAMETER 9 INCHES.
12. DEPTH TO GROUND WATER 2.0 FEET.*
13. TOTAL DEPTH OF BOREHOLE 15.0 FEET.*
14. TYPE OF LOWER BACKFILL —.
15. PIPE MATERIAL PVC.
16. SCREEN MATERIAL PVC.

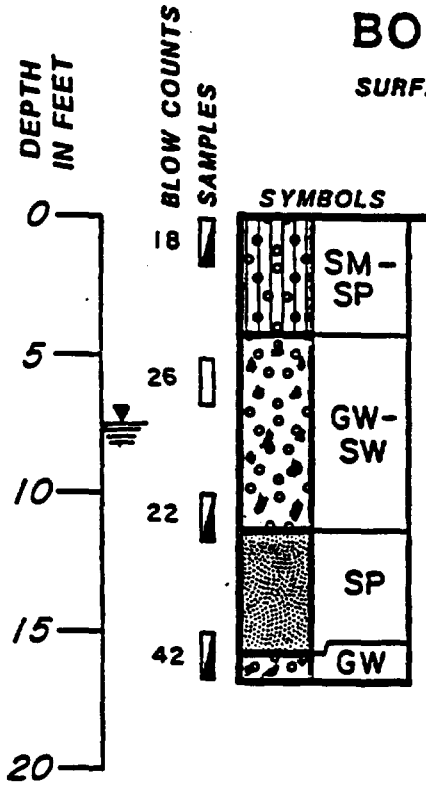
*(DEPTH FROM GROUND SURFACE)

MONITOR WELL INSTALLATION DETAILS

Dames & Moore

BORING GW-4A

SURFACE ELEVATION 135.60



SYMBOLS	*DESCRIPTIONS*	HNU READING
SM-SP	1.5 INCHES TOPSOIL BROWN FINE TO MEDIUM SAND WITH SOME GRAVEL AND TRACE OF SILT	DOWNHOLE READING 55ppm
GW-SW	GRAY MEDIUM TO COARSE SAND WITH FINE TO COARSE GRAVEL SAMPLE NOT RETRIEVED	100ppm
SP	GRAY FINE TO MEDIUM SAND OILY SHEEN ON PIPE SMELLS LIKE SEWAGE	5ppm
GW	GRAY SANDY GRAVEL WITH TRACE OF SILT SMELLS LIKE FUEL	

BORING COMPLETED AT A DEPTH OF 16.5 FEET ON 9/11/86.
WATER ENCOUNTERED AT A DEPTH OF 7.5 FEET WHILE DRILLING.

LOG OF BORING

PLATE D-9

PIEZOMETER DETAIL INFORMATION SHEET

GROUND SURFACE ELEVATION _____

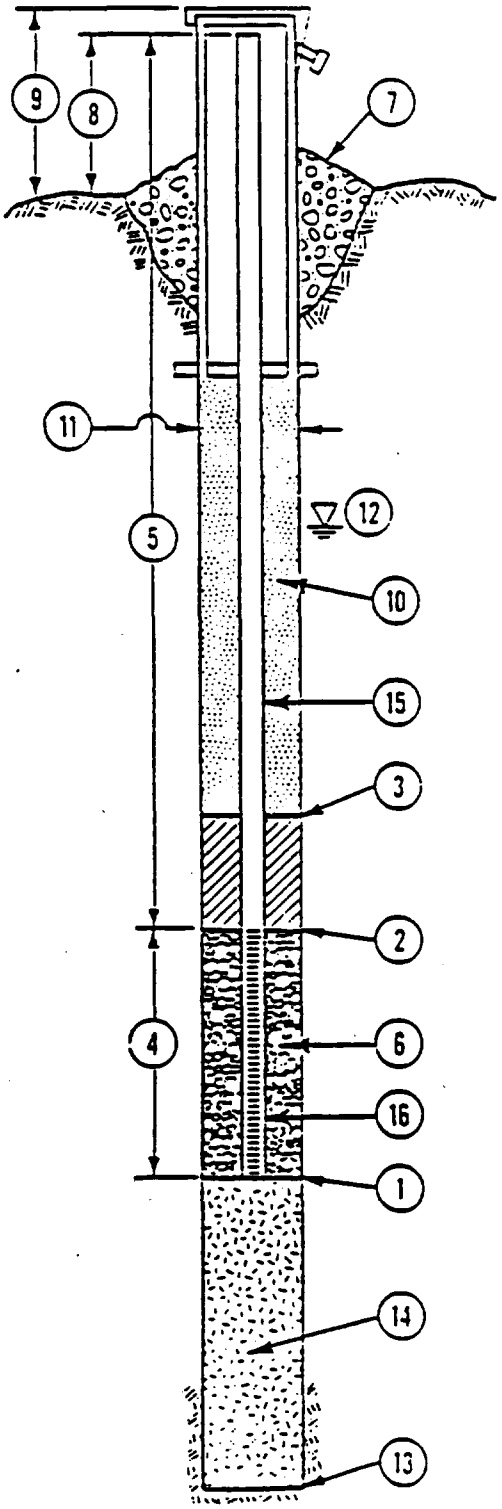
TOP OF WELL CASING ELEVATION _____

JOB NUMBER 1011-504

BORING NUMBER E-14

DATE 5/21/84

LOCATION Elmendorf



(1) DEPTH TO BOTTOM OF WELL POINT OR SLOTTED PIPE 25 FEET.*

(2) DEPTH TO BOTTOM OF SEAL (IF INSTALLED) ? FEET.*

(3) DEPTH TO TOP OF SEAL (IF INSTALLED) 6 FEET.*

(4) LENGTH OF WELL SCREEN 22 FEET
SLOT SIZE .01.

(5) TOTAL LENGTH OF PIPE 4 FEET AT 2 INCH DIAMETER.

(6) TYPE OF PACK AROUND WELL POINT OR SLOTTED PIPE natural sand.

(7) CONCRETE CAP. (YES) NO (CIRCLE ONE)

(8) HEIGHT OF WELL CASING ABOVE GROUND 1 FEET.

(9) PROTECTIVE CASING? (YES) NO (CIRCLE ONE)
HEIGHT ABOVE GROUND 1.25 FEET.
LOCKING CAP? (YES) NO (CIRCLE ONE)

(10) TYPE OF UPPER BACKFILL cement.

(11) BOREHOLE DIAMETER 8 INCHES.

(12) DEPTH TO GROUND WATER 5 FEET.*

(13) TOTAL DEPTH OF BOREHOLE 25 FEET.*

(14) TYPE OF LOWER BACKFILL none.

(15) PIPE MATERIAL PVC.

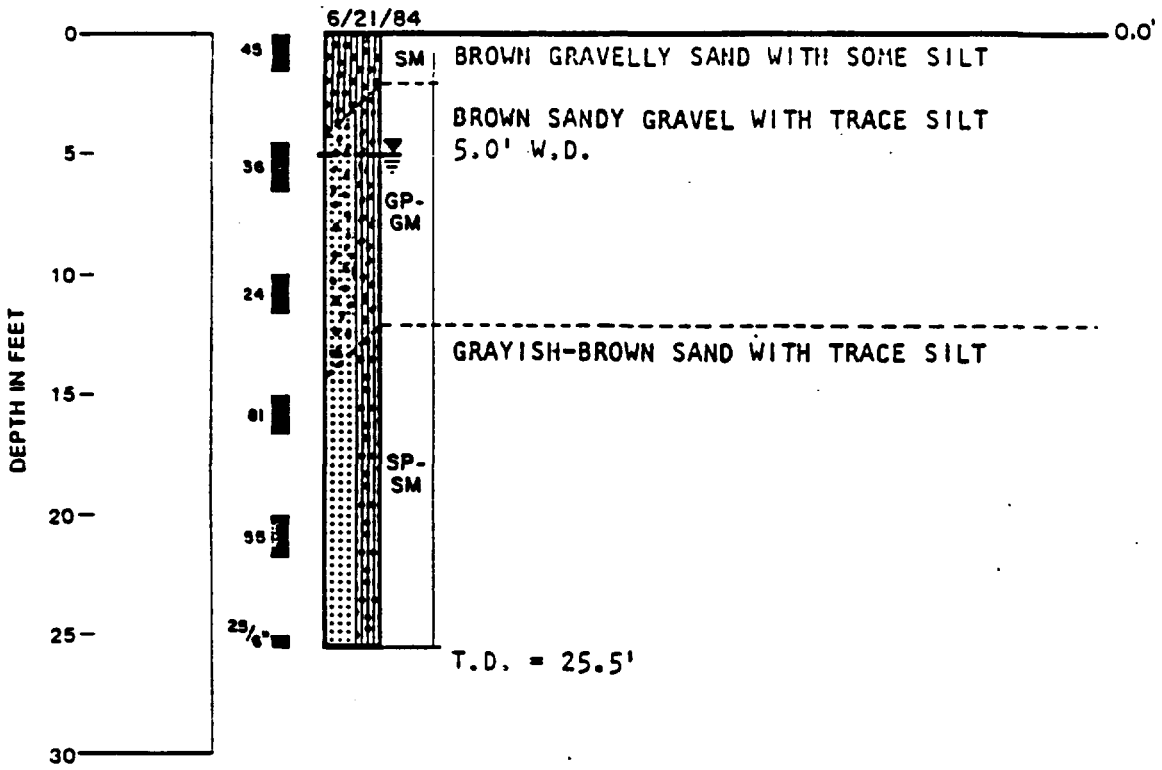
(16) SCREEN MATERIAL PVC

*(DEPTH FROM GROUND SURFACE)

PIEZOMETER INSTALLATION DETAILS

Dames & Moore

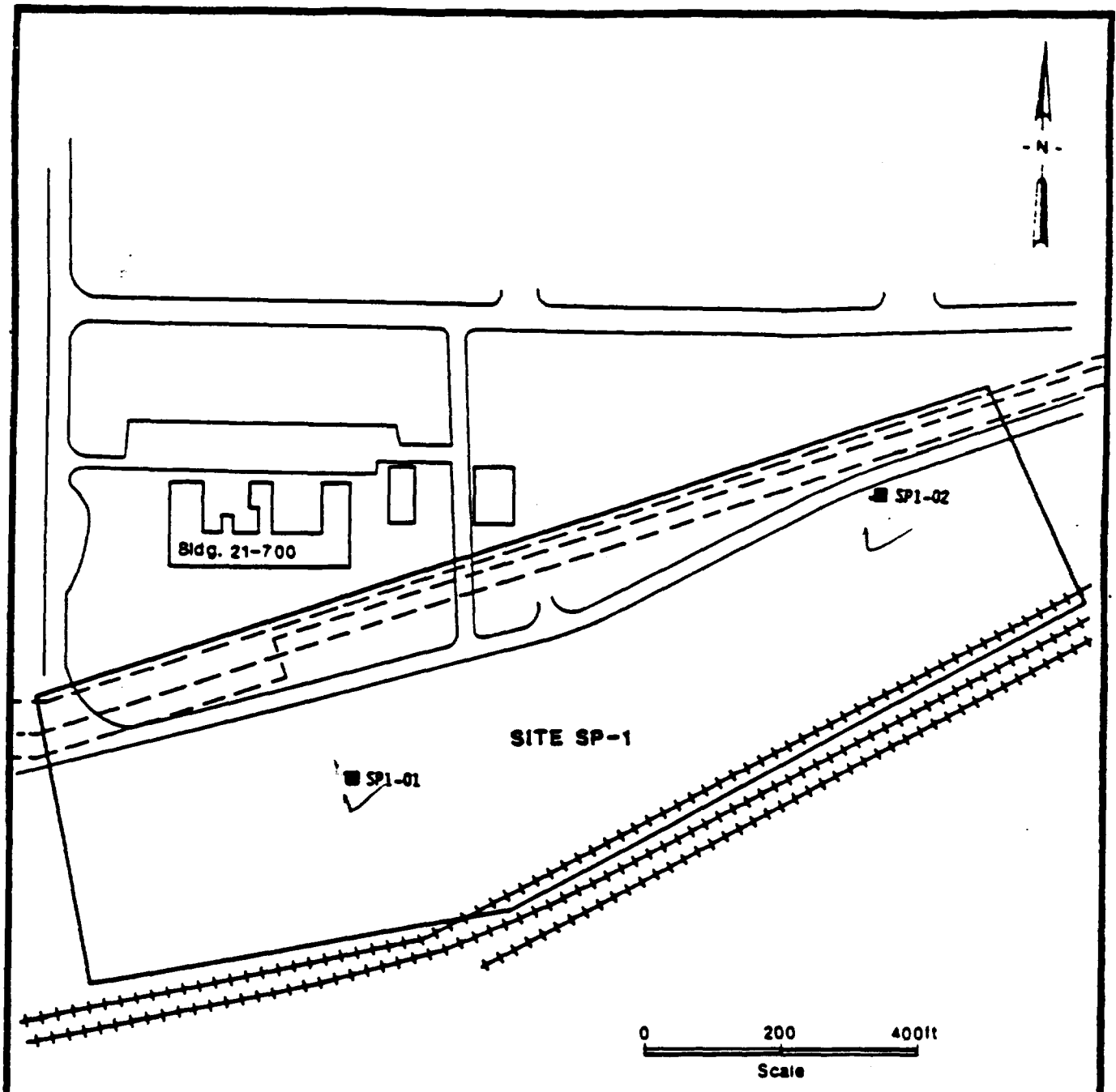
ELMENDORF AFB
BORING W-14



LOG OF BORING

Dames & Moore

PLATE C-18



Legend:

SP1-01 ■ Monitoring Well Location Stage 3

+++++++ Railroad

LOCATION MAP
SITE SP-1

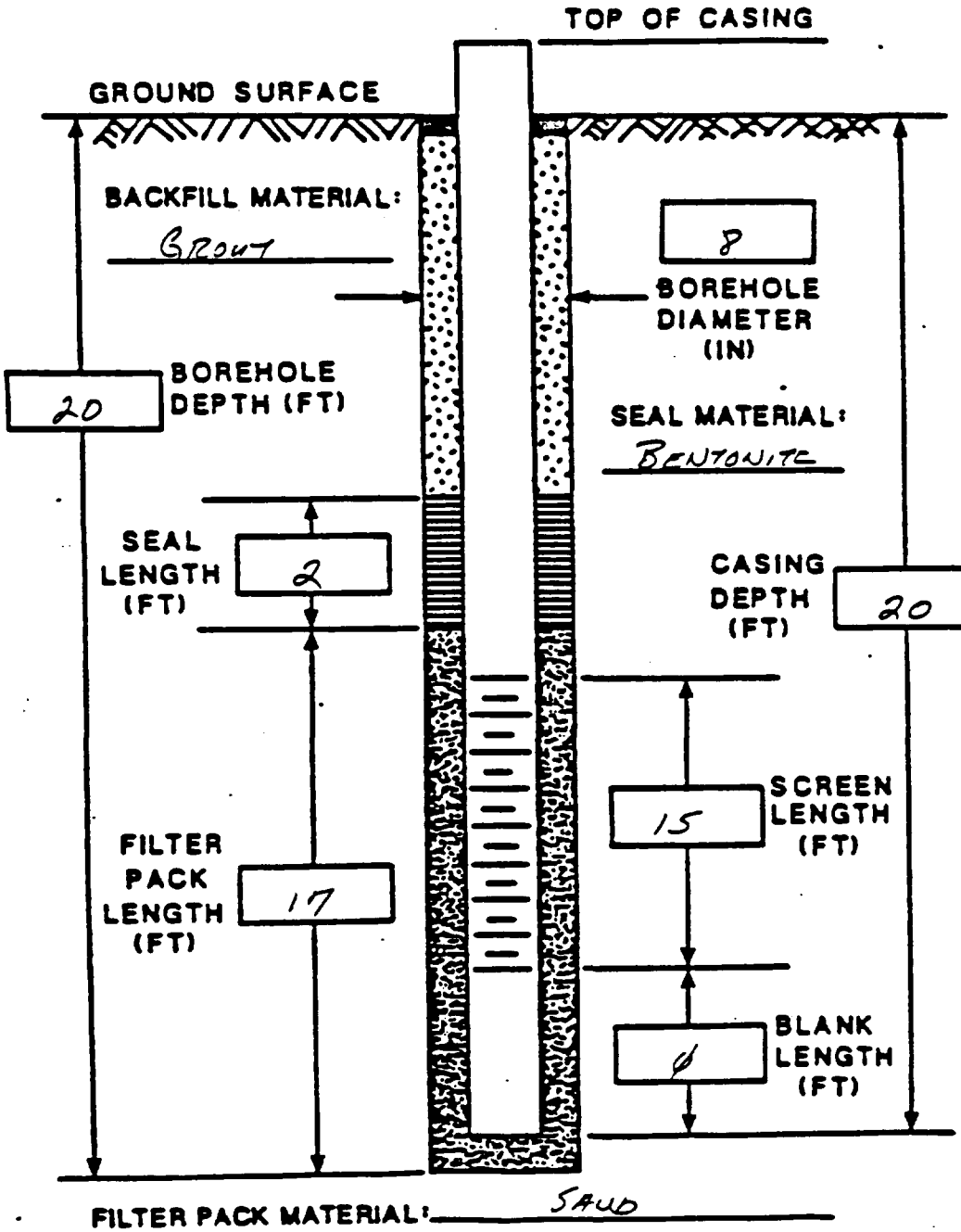
IRP Stage 3 RI/FS Elmendorf AFB, AK	Figure 4.2.10.1

ST37 OU

WELL COMPLETION INFORMATION

INSTALLATION ID ELMENDORF AFB
LOCATION ID SPI-01 (049)
WELL OWNER
WELL TYPE CLASS MNW
FORMATION OF COMPLETION GRAVEL
LOCATION TYPE WL
INSTALLATION DATE 9/5/89
INSTALLER BSI
WELL COMPLETION METHOD GS
ZONE OF COMPLETION 20-5

SEAL END DEPTH (FT) 3
MEAS. POINT ELEV. (FTMSL)
CASING DEPTH (FT) 20
CASING DIAMETER (IN) 2
CASING MATERIAL PVC
FILTER PACK LENGTH (FT) 17
SCREEN BEGIN. DEPTH (FT) 20
SCREEN LENGTH (FT) 20
SCREEN SLOT SIZE (IN) .01
REMARKS



WELL TYPE CLASSIFICATIONS (WTCCODE)
- MNW - MONITORING WELL
- PRW - PRODUCTION WELL
- TST - TEST WELL
- WSW - WATER SUPPLY WELL

CASING MATERIAL (CMACODE)
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- CNC - CONCRETE
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- FBG - FIBERGLASS
- GLS - GALVANIZED STEEL
- WRI - WROUGHT IRON
- SLS - STAINLESS STEEL
- LCS - LOW CARBON STEEL
- M - OTHER METAL
- TFL - TEFLON
- PLY - POLYPROPYLENE
- PVC - PVC
- RST - ROCK OR STONE
- STL - STEEL
- TIL - TILE
- COS - COATED STEEL
- WD - WOOD

ZONE OF COMPLETION (GZCCODE)
- A - AQUIFER
- C - CONFINING LAYER

WELL COMPLETION METHODS: (WCMCODE)
- C - POROUS CONCRETE
- GP - GRAVEL PACK W/PERF.
- GS - GRAVEL PACK W/SCREEN
- H - HORIZONTAL GALLERY
- OE - OPEN END
- P - PERFORATED OR SLOTTE
- S - SCREEN
- SP - SAND POINT
- W - WALLED OR SHORED
- OP - OPEN

BOREHOLE LOG (SOIL)

INSTALLATION ID Elmendorf AFB LOCATION ID SB1-01 (049)
LOCATION TYPE BH LOCATION PROXIMITY ____
COORDINATES (FT): NORTH ____ EAST ____
SURFACE ELEVATION (FTMSL) ____
DRILLER CODE DD CONSTRUCTION METHOD HS
DATE STARTED 8/5/88 DATE COMPLETED 8/5/88
BOREHOLE DEPTH (FT.) 20ft BOREHOLE DIAM. (IN) 10"

GROUNDWATER LEVELS		
DATE	TIME	DEPTH (FT)
8/5/88		6.5ft ATD

LOCATION DESCRIPTION

MAP REFERENCE ID ____ LOCATION CROSS REFERENCE ____

LITHOLOGIC LOG LOGGER CODE ____

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
2									fill	
4										
6		18"		U			1700	YES		Gravel fill w clays
8										Silts & Sands
10										Concrete, Bricks etc.
12		0"		U					fill	
14										
16		4"		U						
18										
20										
22		16"		U						Clay - Soft, med. brown, low plastic, w gravels & peat

LOCATION PROXIMITY (LPRCODE)
I - WITHIN INSTALLATION O - OUTSIDE INSTALLATION

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

CONSTRUCTION METHODS (CMCCODE)
- AR - AIR ROTARY
- B - BORED OR AUGERED
- C - CABLE-TOOL
- D - DUG
- HS - HOLLOW STEM AUGER
- J - JETTED
- P - AIR-PERCUSSION
- RM - REVERSE ROTARY, MUD
- T - TRENCHING
- V - DRIVEN
- W - DRIVE AND WASH

SAMPLE METHODS (SSMCODE)
- A - AUGER CUTTINGS
- S - 2" O.D. 1.38" I.D. DRIVE SAMPLE
- U - 3" O.D. 2.42" I.D. TUBE SAMPLE
- T - 3" O.D. THIN-WALLED SHELBY TUBE

WELL COMPLETION INFORMATION

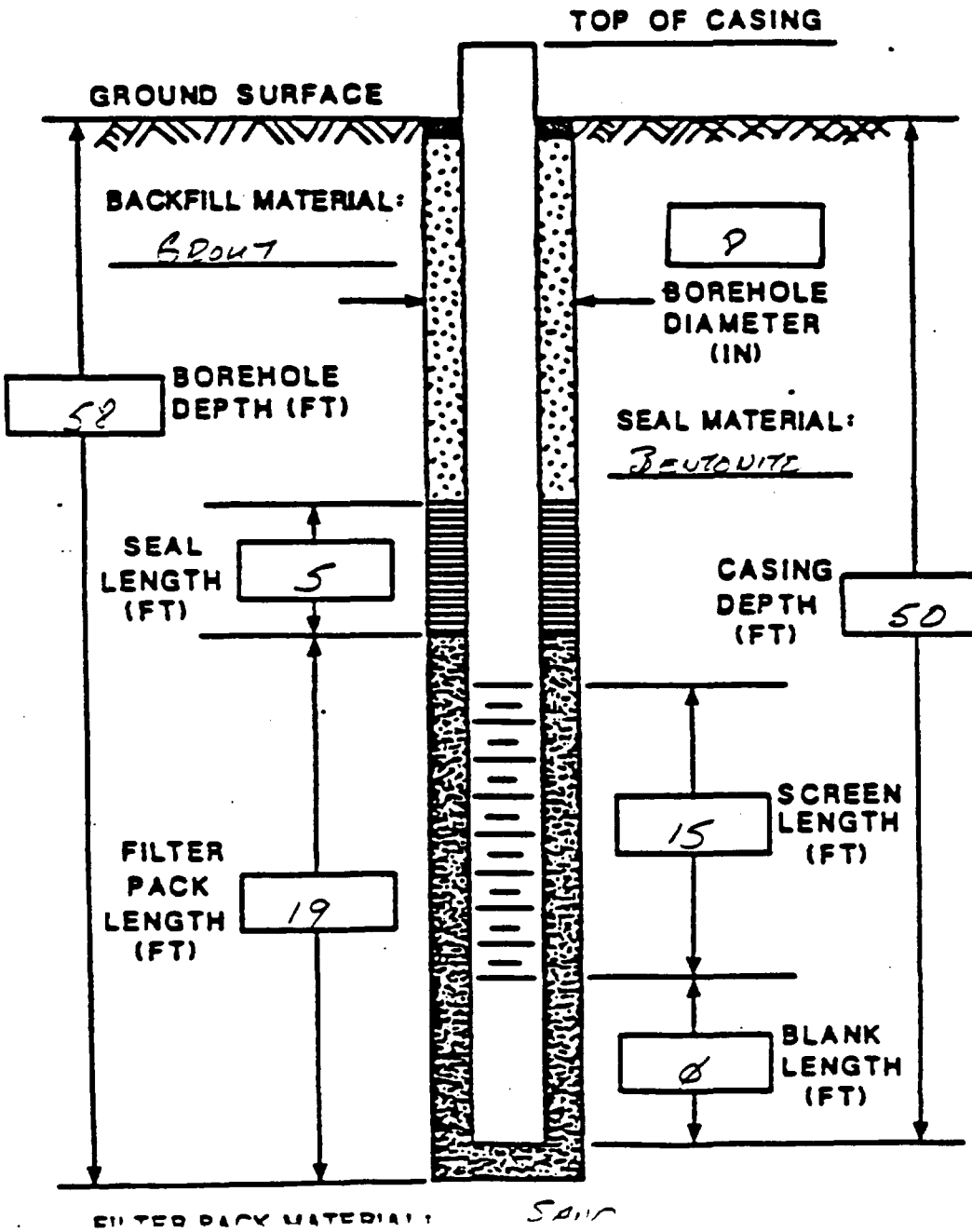
INSTALLATION ID ELMENDORF AFB
LOCATION ID
WELL OWNER SP1-22 (050)
WELL TYPE CLASS. MNW
FORMATION OF COMPLETION GRAVEL

LOCATION TYPE WL
INSTALLATION DATE 2/6/87
INSTALLER PW
WELL COMPLETION METHOD GS
ZONE OF COMPLETION UP-33

SEAL END DEPTH (FT) 31
MEAS. POINT ELEV. (FTMSL)
CASING DEPTH (FT) 48
CASING DIAMETER (IN) 2
CASING MATERIAL PVC

FILTER PACK LENGTH (FT) 19
SCREEN BEGIN. DEPTH (FT) 48
SCREEN LENGTH (FT) 15
SCREEN SLOT SIZE (IN) .01

REMARKS



WELL TYPE CLASSIFICATIONS (WTCCODE)
- MNW - MONITORING WELL
- PRW - PRODUCTION WELL
- TST - TEST WELL
- WSW - WATER SUPPLY WELL

CASING MATERIAL (CMACODE)
- ABS - ABS
- BRK - BRICK
- CBS - CARBON STEEL
- CNC - CONCRETE
- COP - COPPER
- FBG - FIBERGLASS
- GLS - GALVANIZED STEEL
- WRI - WROUGHT IRON
- SLS - STAINLESS STEEL
- LCS - LOW CARBON STEEL
- M - OTHER METAL
- TFL - TEFLON
- PLY - POLYPROPYLENE
- PVC - PVC
- RST - ROCK OR STONE
- STL - STEEL
- TIL - TILE
- COS - COATED STEEL
- WD - WOOD

ZONE OF COMPLETION (GZCCODE)
- A - AQUIFER
- C - CONFINING LAYER

WELL COMPLETION METHODS: (WCMCODE)
- C - POROUS CONCRETE
- GP - GRAVEL PACK W/PERF
- GS - GRAVEL PACK W/SCI
- H - HORIZONTAL GALLERY
- OE - OPEN END
- P - PERFORATED OR SLOTTE
- S - SCREEN
- SP - SAND POINT
- W - WALLED OR SHORED
- OP - OPEN

BOREHOLE LOG (SOIL)

INSTALLATION ID ELMENDORF AFB LOCATION ID SP1-02 (050)
LOCATION TYPE BH LOCATION PROXIMITY ____
COORDINATES (FT): NORTH ____ EAST ____
SURFACE ELEVATION (FTMSL) ____
DRILLER CODE DD CONSTRUCTION METHOD HS
DATE STARTED 8/5/94 DATE COMPLETED 8/6/94
BOREHOLE DEPTH (FT.) 50' BOREHOLE DIAM. (IN) 10"

GROUNDWATER LEVELS		
DATE	TIME	DEPTH (FT)
8/6/94		35' ATD

LOCATION DESCRIPTION

MAP REFERENCE ID ____ LOCATION CROSS REFERENCE ____

LITHOLOGIC LOG LOGGER CODE ____

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
2										
4										FLYASH - BLACK, V SOFT
6	↕	6"		4					FLY ASH	
8										
10										
12	↕	0"		4						
14										
16	↕	6"		4						
18										
20										
22	↕	3"		4						
24										
26	↕	5"		4					GC/CL	GRAVEL - LOOSE, UNMIXED COLORS, GRANULE TO COBBLE SIZE FOR SIZE, V. CLAYEY V. SANDY SILTY
28										
30										

LOCATION PROXIMITY (LPRCODE)
I - WITHIN INSTALLATION O - OUTSIDE INSTALLATION

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

CONSTRUCTION METHODS (CMCCODE)
AR - AIR ROTARY
B - BORED OR AUGERED
C - CABLE-TOOL
D - DUG
HS - HOLLOW STEM AUGER
J - JETTED
P - AIR-PERCUSSION
RM - REVERSE ROTARY, MUD
T - TRENCHING
V - DRIVEN
W - DRIVE AND WASH

SAMPLE METHODS (SSMCODE)
A - AUGER CUTTINGS
S - 2" O.D. 1.38" I.D. DRIVE SAMPLE
U - 3" O.D. 2.42" I.D. TUBE SAMPLE
T - 3" O.D. THIN-WALLED SHELBY TUBE

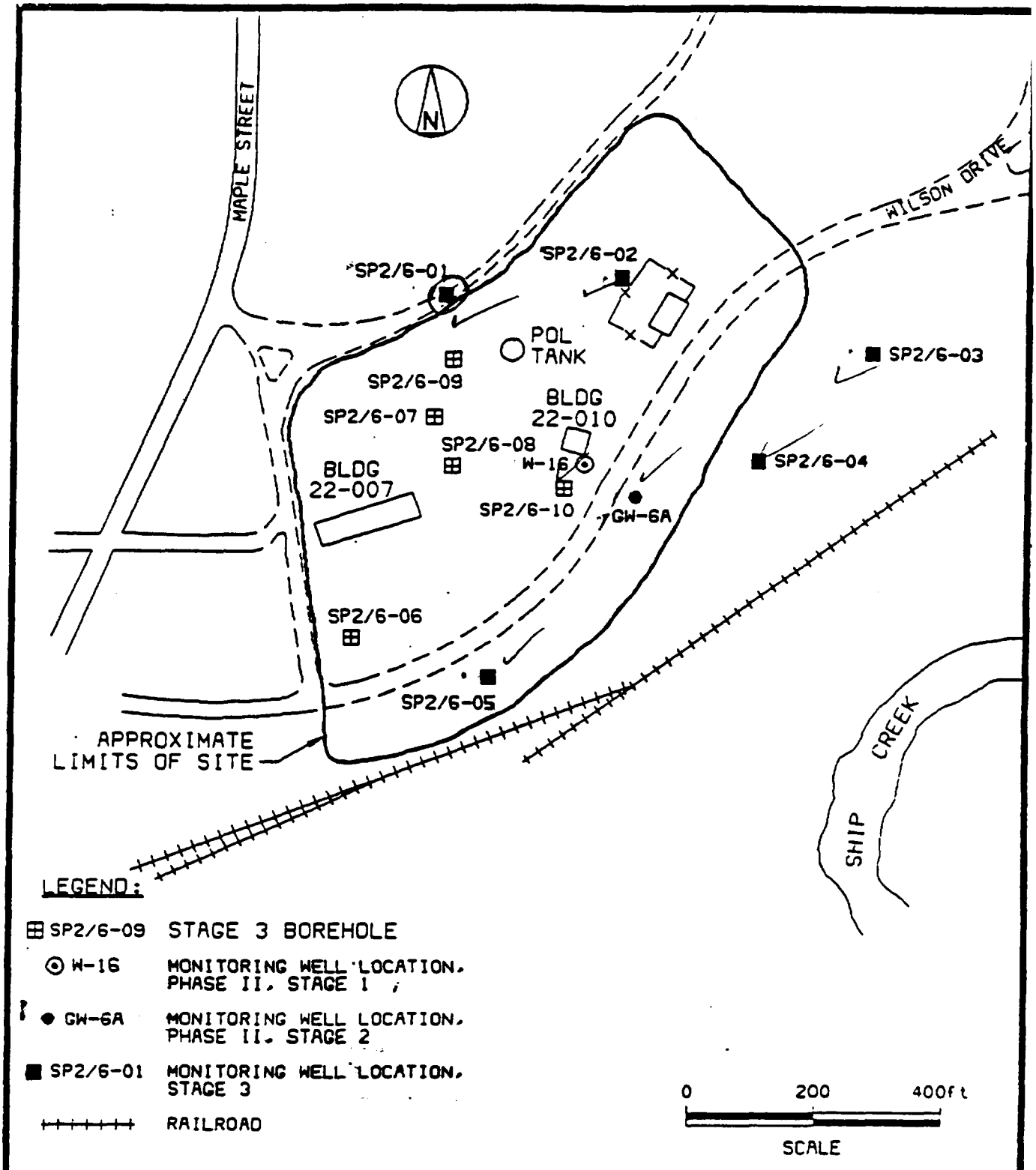
BOREHOLE LOG (SOIL)

INSTALLATION ID ELMENDORF AFB
LOCATION ID SPI-02 (OSC)
DATE STARTED 8/5/91

LITHOLOGIC LOG

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
32	↕	4"		U			N	N		
34									SC/GC	
36	↕	10"		U			N	N		GRAVEL - LOOSE, VARIED COLORS, GRANULE TO COBBLE SIZE, ROUNDED, POORLY SORTED; CLAYEY W/ INTERBEDDED FLY ASH BEDS (PULP
38										
40										
42	↕	4'		U	OSC 0001		17ppm	YES		
44	↕	7"		U			45ppm	YES		
46										
48	↕	6"		U			12ppm	?	CL	CLAY - SOFT, BROWN, HIGH PLASTIC, W/GRAVELS
50									GC	GRAVEL - LOOSE, VARIE COLORS, GRANULE TO MOD. PEBBLE SIZE, POORLY SORTED, SUB-ROUNDED, V. CLAYEY & SILTY
52	↕	12"		U	OSC 0002		20ppm	?	CH	CLAY - HARD, GRAY, HIGH PLASTIC, W/SOME GRAVELS (BOTTLECAPS)

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST



LOCATION MAP

SITES SP-2 & SP-6

IRP Stage 3 RI/FS Elmendorf AFB, AK	Figure 4.2.11.1

WELL COMPLETION INFORMATION

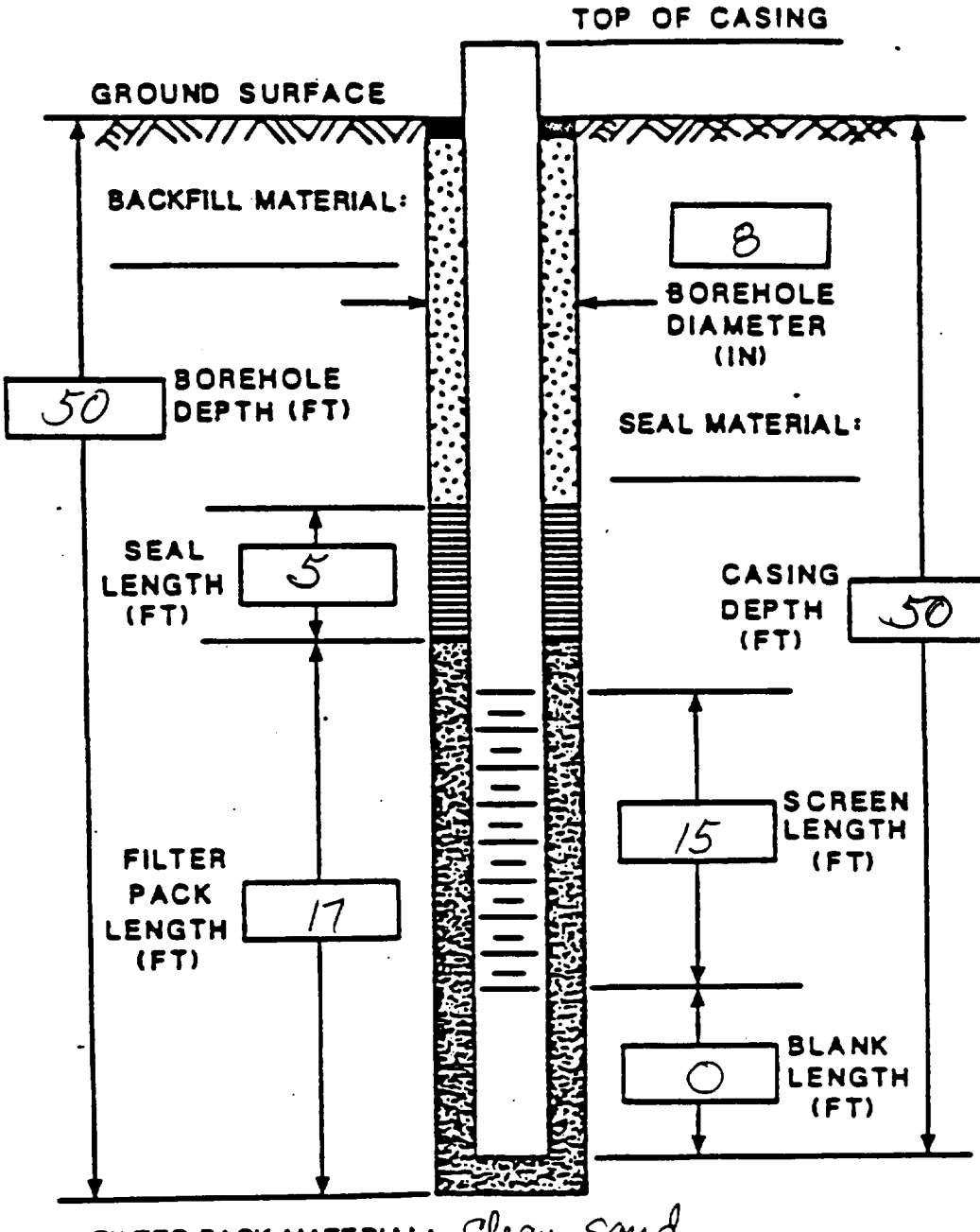
INSTALLATION ID ELM(0687)
LOCATION ID SP2-21(051)
WELL OWNER _____
WELL TYPE CLASS. MNW
FORMATION OF COMPLETION clean sd gravel

LOCATION TYPE WL
INSTALLATION DATE July 20, 1988
INSTALLER AW
WELL COMPLETION METHOD GS
ZONE OF COMPLETION _____

SEAL END DEPTH (FT) 33'
MEAS. POINT ELEV. (FTMSL) _____
CASING DEPTH (FT) 50'
CASING DIAMETER (IN) 2"
CASING MATERIAL PLY

FILTER PACK LENGTH (FT) 17'
SCREEN BEGIN. DEPTH (FT) 33'
SCREEN LENGTH (FT) 15'
SCREEN SLOT SIZE (IN) _____

REMARKS _____



FILTER PACK MATERIAL: clean sand

WELL TYPE CLASSIFICATIONS (WTCODE)
- MNW - MONITORING WELL
- PRW - PRODUCTION WELL
- TST - TEST WELL
- WSW - WATER SUPPLY WELL

CASING MATERIAL (CMACODE)
- ABS - ABS
- BRK - BRICK
- CBS - CARBON STEEL
- CNC - CONCRETE
- COP - COPPER
- FBG - FIBERGLASS
- GLS - GALVANIZED STEEL
- WRI - WROUGHT IRON
- SLS - STAINLESS STEEL
- LCS - LOW CARBON STEEL
- M - OTHER METAL
- TFL - TEFLON
- PLY - POLYPROPYLENE
- PVC - PVC
- RST - ROCK OR STONE
- STL - STEEL
- TIL - TILE
- COS - COATED STEEL
- WD - WOOD

ZONE OF COMPLETION (GZCODE)
- A - AQUIFER
- C - CONFINING LAYER

WELL COMPLETION METHODS (WCMCODE)
- C - POROUS CONCRETE
- GP - GRAVEL PACK W/PERF.
- GS - GRAVEL PACK W/SCREE
- H - HORIZONTAL GALLERY
- OE - OPEN END
- P - PERFORATED OR SLOTTE
- S - SCREEN
- SP - SAND POINT
- W - WALLED OR SHORED
- OP - OPEN

BOREHOLE LOG (SOIL)

INSTALLATION ID ELM (0687) LOCATION ID SP2-01(OS1)
LOCATION TYPE BH LOCATION PROXIMITY I
COORDINATES (FT): NORTH _____ EAST _____
SURFACE ELEVATION (FTMSL) _____
DRILLER CODE CME-55 CONSTRUCTION METHOD HS
DATE STARTED July 20 DATE COMPLETED July 20
BOREHOLE DEPTH (FT.) 50' BOREHOLE DIAM. (IN) 8"

GROUNDWATER LEVELS		
DATE	TIME	DEPTH (FT)
July 20, 1988	1425	38'2" from surf

LOCATION DESCRIPTION

MAP REFERENCE ID _____ LOCATION CROSS REFERENCE _____

LITHOLOGIC LOG LOGGER CODE AW

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
1										
3										
5	↓	6"					0	N	GW	gray brown sandy gravel
7										
9										
11	↓	0"					—	—	GW	Chunk of gravel
13										
15	↓	9"					0	N	GW	gray brown sandy gravel
17										
19										
21	↓	14"					0	N	GW	brown silty sandy gravel grading into sandy gravel
23										
25	↓	12"					0	N	GW	brown sandy gravel
27										
29										

LOCATION PROXIMITY (LPRCODE)
I - WITHIN INSTALLATION O - OUTSIDE INSTALLATION

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

CONSTRUCTION METHODS (CMCODE)
AR - AIR ROTARY
B - BORED OR AUGERED
C - CABLE-TOOL
D - DUG
HS - HOLLOW STEM AUGER
J - JETTED
P - AIR-PERCUSSION
RM - REVERSE ROTARY, MUD
T - TRENCHING
V - DRIVEN
W - DRIVE AND WASH

SAMPLE METHODS (SSMCODE)
A - AUGER CUTTINGS
S - 2" O.D. 1.38" I.D. DRIVE SAMPLE
U - 3" O.D. 2.42" I.D. TUBE SAMPLE
T - 3" O.D. THIN-WALLED SHELBY TUBE

BOREHOLE LOG (SOIL)

INSTALLATION ID ELM (0687)
LOCATION ID SP2-01(051)

DATE STARTED July 20, 1988

LITHOLOGIC LOG

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
31	↓	14"		4			5	Sli	GW	Lt. brown sdy gravel, coal fragments, moist
33										
35		14"		4			1	N	GW	brown sandy gravel
37										
39										
41	↓	14"	↓	4	051/0001		9	N	GW	gray sandy gravel, wet
43										
45										
47										
49		TD								
51										TD 50' - complete as a monitoring well

CLASS/CODE - SEE SATCODE LIST, THEN APPROPRIATE CODE LIST

WELL COMPLETION INFORMATION

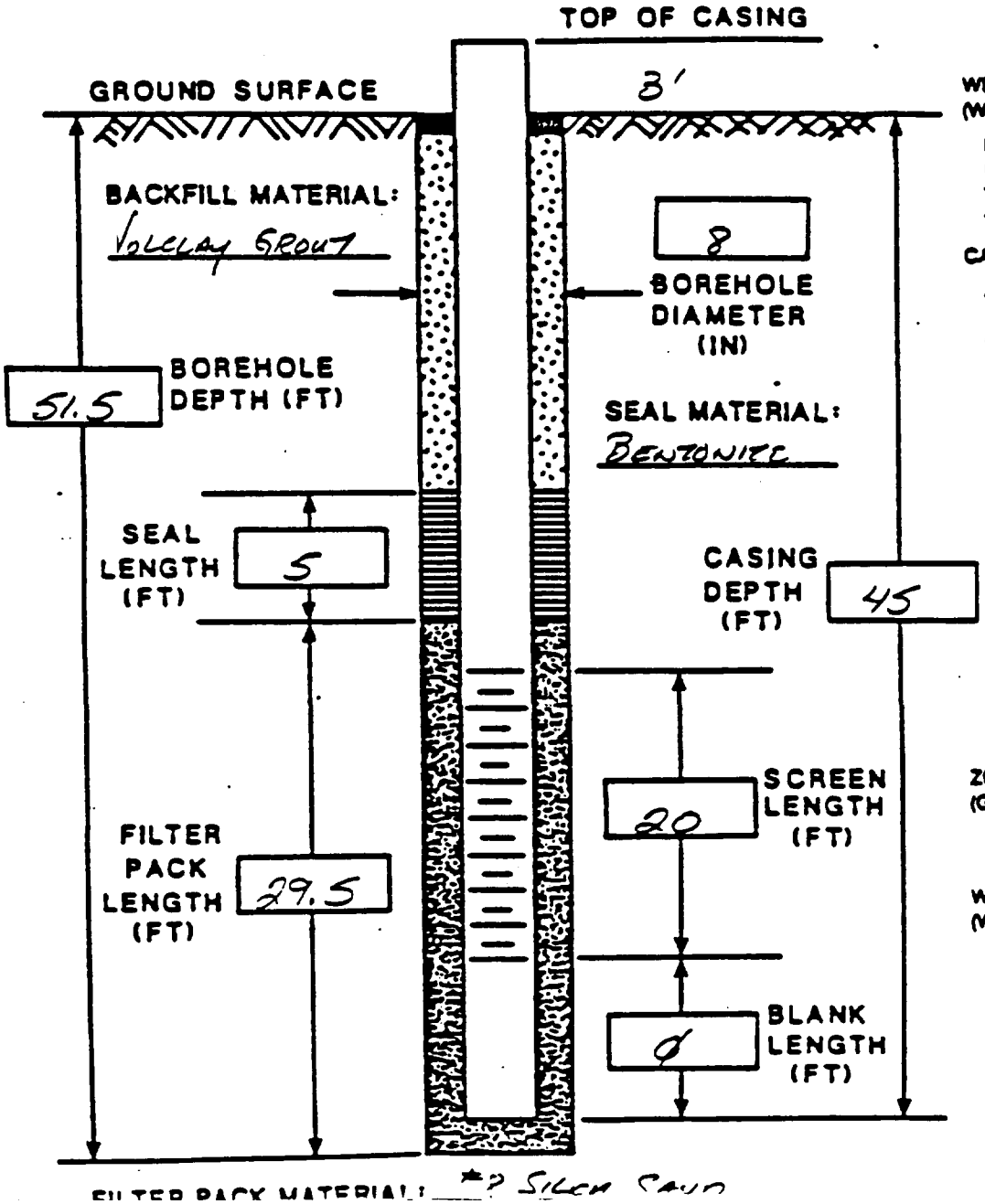
INSTALLATION ID ELMENDORF AFB
LOCATION ID SP216-02 (052)
WELL OWNER
WELL TYPE CLASS MNW
FORMATION OF COMPLETION SAND

LOCATION TYPE WL
INSTALLATION DATE 7/23/93
INSTALLER BEI
WELL COMPLETION METHOD S
ZONE OF COMPLETION 45-25

SEAL END DEPTH (FT)
MEAS. POINT ELEV. (FTMSL)
CASING DEPTH (FT) 45
CASING DIAMETER (IN) 2
CASING MATERIAL PVC

FILTER PACK LENGTH (FT) 29.5
SCREEN BEGIN. DEPTH (FT) 45
SCREEN LENGTH (FT) 20
SCREEN SLOT SIZE (IN) .010

REMARKS



WELL TYPE CLASSIFICATIONS (WTCCODE)
- MNW - MONITORING WELL
- PRW - PRODUCTION WELL
- TST - TEST WELL
- WSW - WATER SUPPLY WELL

CASING MATERIAL (CMACODE)
- ABS - ABS
- BRK - BRICK
- CBS - CARBON STEEL
- CNC - CONCRETE
- COP - COPPER
- FBG - FIBERGLASS
- GLS - GALVANIZED STEEL
- WRI - WROUGHT IRON
- SLS - STAINLESS STEEL
- LCS - LOW CARBON STEEL
- M - OTHER METAL
- TFL - TEFLON
- PLY - POLYPROPYLENE
- PVC - PVC
- RST - ROCK OR STONE
- STL - STEEL
- TIL - TILE
- COS - COATED STEEL
- WD - WOOD

ZONE OF COMPLETION (GZCCODE)
- A - AQUIFER
- C - CONFINING LAYER

WELL COMPLETION METHODS: (WCMCODE)
- C - POROUS CONCRETE
- GP - GRAVEL PACK W/PERF
- GS - GRAVEL PACK W/SCI
- H - HORIZONTAL GALLERY
- OE - OPEN END
- P - PERFORATED OR SLOTTE
- S - SCREEN
- SP - SAND POINT
- W - WALLED OR SHORED
- OP - OPEN

BOREHOLE LOG (SOIL)

INSTALLATION ID Blaine Road EE2 LOCATION ID SPSA-05 052
LOCATION TYPE BH LOCATION PROXIMITY I
COORDINATES (FT): NORTH _____ EAST _____
SURFACE ELEVATION (FTMSL) _____
DRILLER CODE DSC CONSTRUCTION METHOD HS
DATE STARTED 7-23-89 DATE COMPLETED 7-28-89
BOREHOLE DEPTH (FT.) 54.5 BOREHOLE DIAM. (IN) 8IN

GROUNDWATER LEVELS		
DATE	TIME	DEPTH (FT)

LOCATION DESCRIPTION

MAP REFERENCE ID _____ LOCATION CROSS REFERENCE _____

LITHOLOGIC LOG LOGGER CODE _____

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
2				A			N	N	GC	GRAVEL - DENSE, GRAY, V. CLAYEY, SILTY, COARSE PEBBLES TO COBBLES, POORLY SORTED.
4										
6	↕	16"		U			N	N		GRAVEL - DENSE GRAY, COARSE PEBBLES TO COBBLES, POORLY SORTED V. CLAYEY / SILTY
8										
10										
12	↕	13"		U			N	N	GC	
14										
16	↕	16"		U			200 ppm	N		
18									SP	SAND - MED DENSE, OLIVE-GRAY, MED GRAINED, WELL ROUNDED, V. CLEAN W/ 1/2" TO MED. PEBBLE GRAVEL.
20										
22	↕	15"		U			200 ppm	N		
24										
26	↕	16"		U			N	N	SP	SAND - MED. DENSE, OLIVE-GRAY MED GRAINED, WELL ROUNDED V. CLEAN W/ GRAVELS
28										
30										▽ H2O @ 29' AMD

LOCATION PROXIMITY (LPRCODE)
I - WITHIN INSTALLATION O - OUTSIDE INSTALLATION

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

CONSTRUCTION METHODS (CMCCODE)

- AR - AIR ROTARY
- B - BORED OR AUGERED
- C - CABLE-TOOL
- D - DUG
- HS - HOLLOW STEM AUGER
- J - JETTED
- P - AIR-PERCUSSION
- RM - REVERSE ROTARY, MUD
- T - TRENCHING
- V - DRIVEN
- W - DRIVE AND WASH

SAMPLE METHODS (SSMCODE)

- A - AUGER CUTTINGS
- S - 2" O.D. 1.38" I.D. DRIVE SAMPLE
- U - 3" O.D. 2.42" I.D. TUBE SAMPLE
- T - 3" O.D. THIN-WALLED SHELBY TUBE

BOREHOLE LOG (SOIL)

INSTALLATION ID ELMENDORF AFB
LOCATION ID SPE16-02 DATE STARTED 7-23-87

LITHOLOGIC LOG

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
32	↕	14"		U	052 0001		N	N	SP	SAND - MED. DENSE, DWUL-TAN, MED. TO LOW STRENGTH, POORLY GRADED, CLEAN W/GRANULE TO COARSE PEBBLE GRAVELS
34										
36										
38										
40										
42	↕	16"		U			N	N	SD	SAND - DENSE DK. GRAY, MED TO LOW STRENGTH, ROUNDED, POORLY GRADED, CLEAN & SILTY & GRANULE TO MED PEBBLE GRAVELS
44										
46										
48										
50									SP	
52	↕	10"		U			N	N	CH	CLAY - V. STIFF, GRAY, HIGH PLASTIC SL. SILTY POORLY GRADED CLAY
										TD 51.5 ft
										WELL SET @ 45 ft

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

WELL COMPLETION INFORMATION

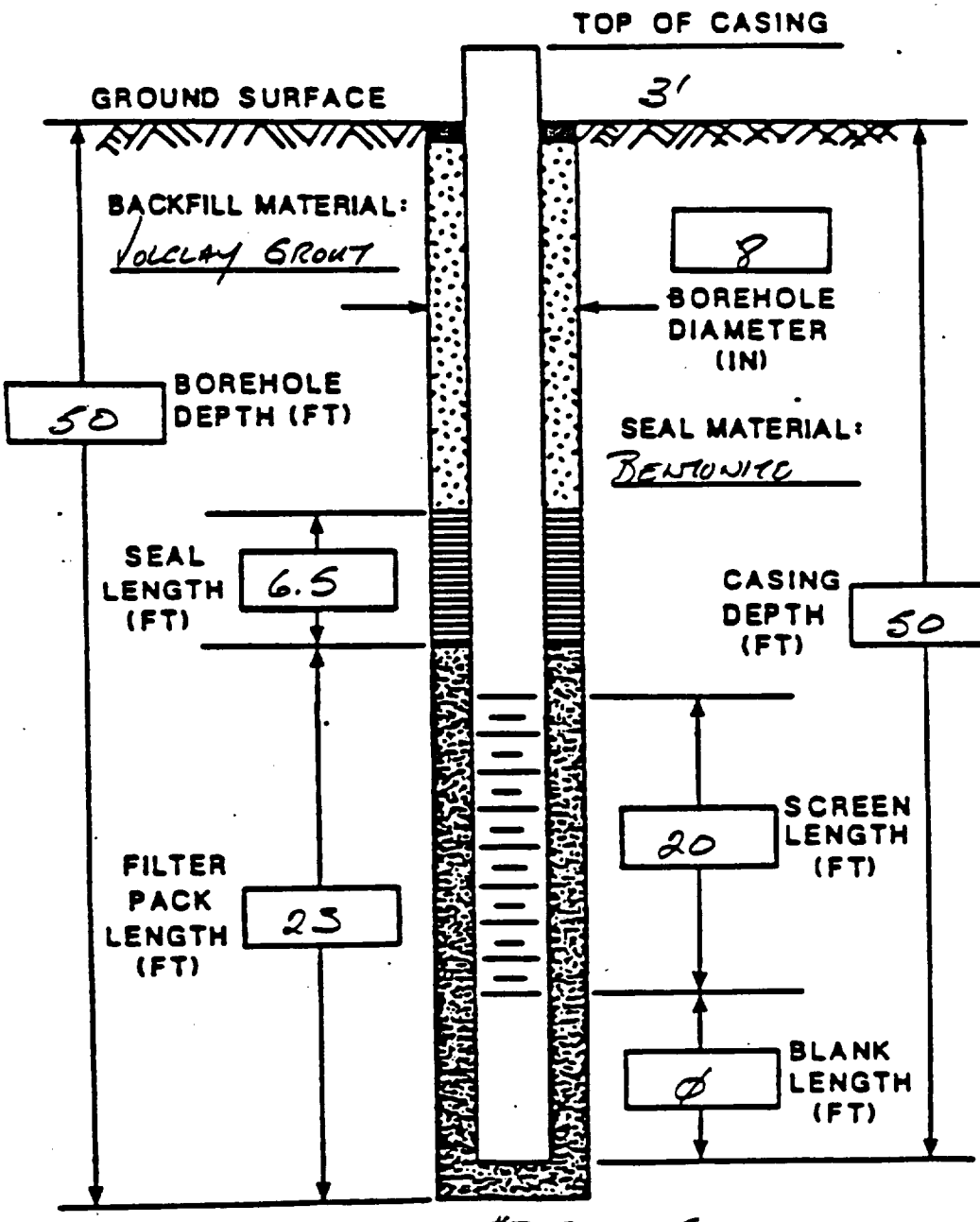
INSTALLATION ID ELMENDORF AFB
LOCATION ID SP216-03 (053)
WELL OWNER _____
WELL TYPE CLASS. MNW
FORMATION OF COMPLETION FLYASH FILL

LOCATION TYPE WL
INSTALLATION DATE 7/25/88
INSTALLER BOV
WELL COMPLETION METHOD S
ZONE OF COMPLETION 50-30

SEAL END DEPTH (FT) _____
MEAS. POINT ELEV. (FTMSL) _____
CASING DEPTH (FT) 50
CASING DIAMETER (IN) 2
CASING MATERIAL PVC

FILTER PACK LENGTH (FT) 23
SCREEN BEGIN. DEPTH (FT) 50
SCREEN LENGTH (FT) 20
SCREEN SLOT SIZE (IN) .010

REMARKS _____



WELL TYPE CLASSIFICATIONS (WTCCODE)
- MNW - MONITORING WELL
- PRW - PRODUCTION WELL
- TST - TEST WELL
- WSW - WATER SUPPLY WELL

CASING MATERIAL (CMACODE)
- ABS - ABS
- BRK - BRICK
- CBS - CARBON STEEL
- CNC - CONCRETE
- COP - COPPER
- FBG - FIBERGLASS
- GLS - GALVANIZED STEEL
- WRI - WROUGHT IRON
- SLS - STAINLESS STEEL
- LCS - LOW CARBON STEEL
- M - OTHER METAL
- TFL - TEFLON
- PLY - POLYPROPYLENE
- PVC - PVC
- RST - ROCK OR STONE
- STL - STEEL
- TIL - TILE
- COS - COATED STEEL
- WD - WOOD

ZONE OF COMPLETION (GZCCODE)
- A - AQUIFER
- C - CONFINING LAYER

WELL COMPLETION METHODS: (WCMCODE)
- C - POROUS CONCRETE
- GP - GRAVEL PACK W/PERF.
- GS - GRAVEL PACK W/SCREE
- H - HORIZONTAL GALLERY
- OE - OPEN END
- P - PERFORATED OR SLOTTE
- S - SCREEN
- SP - SAND POINT
- W - WALLED OR SHORED
- OP - OPEN

BOREHOLE LOG (SOIL)

INSTALLATION ID ELMENDORF AFB LOCATION ID SB216-03 (0S3)
LOCATION TYPE BH LOCATION PROXIMITY I
COORDINATES (FT): NORTH ____ EAST ____
SURFACE ELEVATION (FTMSL) ____
DRILLER CODE DISC CONSTRUCTION METHOD HS
DATE STARTED 7/25/22 DATE COMPLETED 7/25/22
BOREHOLE DEPTH (FT.) ____ BOREHOLE DIAM. (IN) 8 IN

GROUNDWATER LEVELS		
DATE	TIME	DEPTH (FT)

LOCATION DESCRIPTION

MAP REFERENCE ID ____ LOCATION CROSS REFERENCE ____

LITHOLOGIC LOG LOGGER CODE ____

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
2				A					FILL	GRAVEL, CLAY + SOIL
4										
6	↕	9"		4			N	N		COAL FLY ASH
8										
10										
12	↕	8"		4			N	N		
14										
16	↕	9"		4			N	N		
18										
20										
22	↕	18"		4			N	N		
24										
26	↕	16"		4			N	N		
28										
30										

LOCATION PROXIMITY (LPRCODE)
I - WITHIN INSTALLATION O - OUTSIDE INSTALLATION

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

CONSTRUCTION METHODS (CMCCODE)
- AR - AIR ROTARY
- B - BORED OR AUGERED
- C - CABLE-TOOL
- D - DUG
- HS - HOLLOW STEM AUGER
- J - JETTED
- P - AIR-PERCUSSION
- RM - REVERSE ROTARY, MUD
- T - TRENCHING
- V - DRIVEN
- W - DRIVE AND WASH

SAMPLE METHODS (SSMCODE)
- A - AUGER CUTTINGS
- S - 2" O.D. 1.38" I.D. DRIVE SAMPLE
- U - 3" O.D. 2.42" I.D. TUBE SAMPLE
- T - 3" O.D. THIN-WALLED SHELBY TUBE

BOREHOLE LOG (SOIL)

INSTALLATION ID Elmendorf AFB
LOCATION ID SB216-03 (053)
DATE STARTED 7/25/88

LITHOLOGIC LOG

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
32		44"		U			N	N		FILL - STIFF, BROWN TO ORANGE, NON-PLASTIC SILTY CLAY W/ GRAVEL
34									FILL	~~SB~~ H2O @ 33.5 ATD
36		44"		U			N	N		
38										
40										
42		19"		U			N	N		
44										
46		16"		U	053 -001		ND			
48										
50										
52										
53									CP	
										CLAY - V. STIFF, GRAY, HARD PLASTIC BOULDERS CLAY
										TD 52.5'
										WELL SET @ 50'

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

WELL COMPLETION INFORMATION

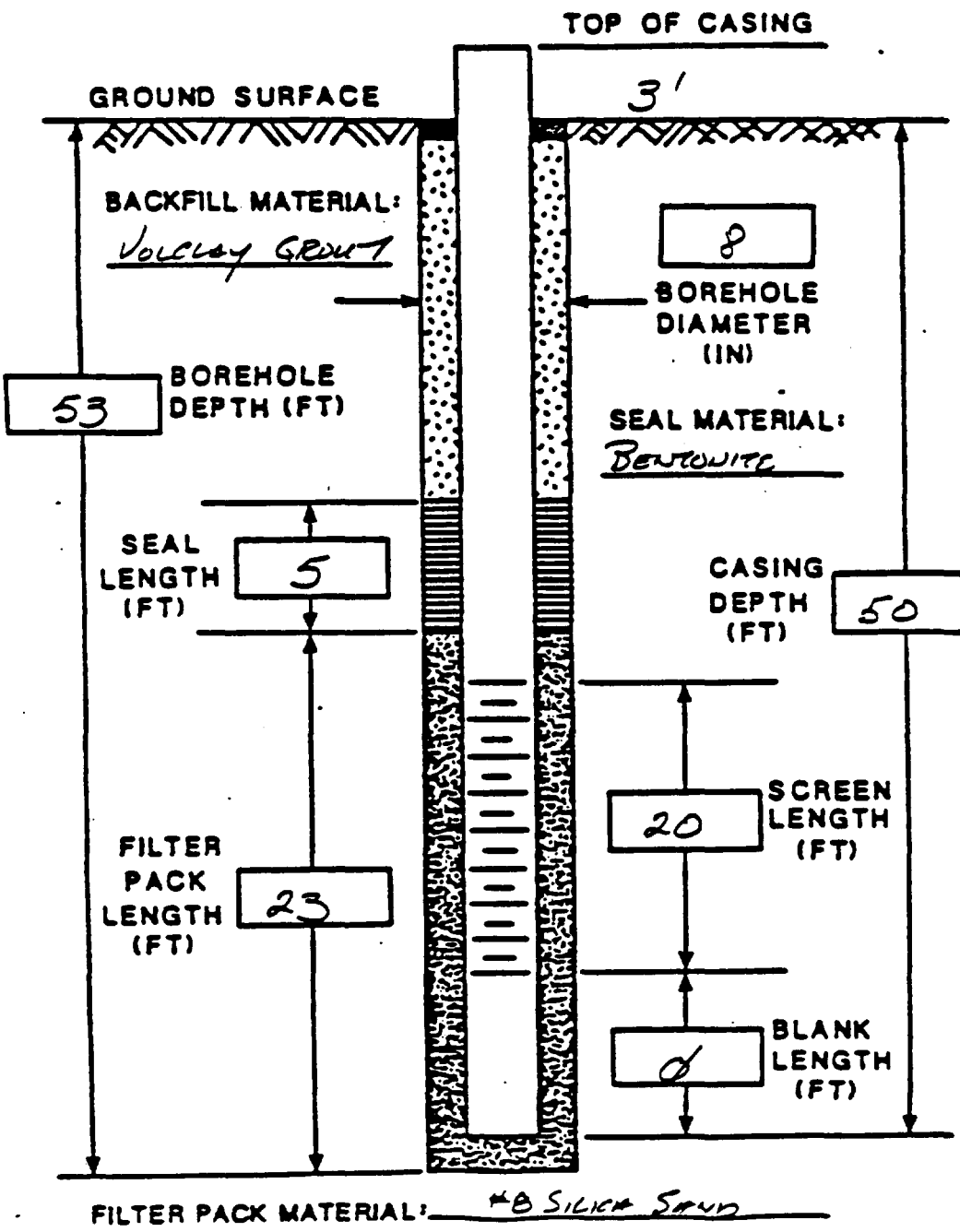
INSTALLATION ID ELMENDORF AFB
LOCATION ID SP216-04 (054)
WELL OWNER
WELL TYPE CLASS MNW
FORMATION OF COMPLETION FLY ASH/SAND FILL

LOCATION TYPE WL
INSTALLATION DATE 7/28/82
INSTALLER B&V
WELL COMPLETION METHOD S
ZONE OF COMPLETION 50-70

SEAL END DEPTH (FT)
MEAS. POINT ELEV. (FTMSL)
CASING DEPTH (FT) 50
CASING DIAMETER (IN) 2
CASING MATERIAL PVC

FILTER PACK LENGTH (FT) 23
SCREEN BEGIN. DEPTH (FT) 50
SCREEN LENGTH (FT) 20
SCREEN SLOT SIZE (IN) .010

REMARKS



WELL TYPE CLASSIFICATIONS (WTCODE)
- MNW - MONITORING WELL
- PRW - PRODUCTION WELL
- TST - TEST WELL
- WSW - WATER SUPPLY WELL

CASING MATERIAL (CMACODE)
- ABS - ABS
- BRK - BRICK
- CBS - CARBON STEEL
- CNC - CONCRETE
- COP - COPPER
- FBG - FIBERGLASS
- GLS - GALVANIZED STEEL
- WRI - WROUGHT IRON
- SLS - STAINLESS STEEL
- LCS - LOW CARBON STEEL
- M - OTHER METAL
- TFL - TEFLON
- PLY - POLYPROPYLENE
- PVC - PVC
- RST - ROCK OR STONE
- STL - STEEL
- TIL - TILE
- COS - COATED STEEL
- WD - WOOD

ZONE OF COMPLETION (GZCODE)
- A - AQUIFER
- C - CONFINING LAYER

WELL COMPLETION METHODS (WCMCODE)
- C - POROUS CONCRETE
- GP - GRAVEL PACK W/PERF.
- GS - GRAVEL PACK W/SCF
- H - HORIZONTAL GALLERY
- OE - OPEN END
- P - PERFORATED OR SLOTTE
- S - SCREEN
- SP - SAND POINT
- W - WALLED OR SHORED
- OP - OPEN

BOREHOLE LOG (SOIL)

INSTALLATION ID ELMENDORF AFB — LOCATION ID SP216-04 054
LOCATION TYPE BH — LOCATION PROXIMITY I
COORDINATES (FT): NORTH _____ EAST _____
SURFACE ELEVATION (FTMSL) _____
DRILLER CODE DISC — CONSTRUCTION METHOD HS
DATE STARTED 7/27/88 — DATE COMPLETED 7/28/88
BOREHOLE DEPTH (FT.) 53½ — BOREHOLE DIAM. (IN) 8¼

GROUNDWATER LEVELS		
DATE	TIME	DEPTH (FT)

LOCATION DESCRIPTION

MAP REFERENCE ID _____ LOCATION CROSS REFERENCE _____

LITHOLOGIC LOG

LOGGER CODE _____

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
2										TOPSOIL
4									FILL	COAL ASH
6	↕	6"		U			1ppm	N		
8										
10										
12	↕	13"		U						
14										
16	↕	17"		U						
18									CL	CLAY - SOFT, MED. BROWN, LOW PLASTIC, SANDY & SMALL GRAVELS
20										
22	↕	12"		U						
24										
26	↕	14"		U						
28										
30									CL	

LOCATION PROXIMITY (LPRCODE)
I - WITHIN INSTALLATION O - OUTSIDE INSTALLATION

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

CONSTRUCTION METHODS (CMCCODE)
- AR - AIR ROTARY
- B - BORED OR AUGERED
- C - CABLE-TOOL
- D - DUG
- HS - HOLLOW STEM AUGER
- J - JETTED
- P - AIR-PERCUSSION
- RM - REVERSE ROTARY, MUD
- T - TRENCHING
- V - DRIVEN
- W - DRIVE AND WASH

SAMPLE METHODS (SSMCODE)
- A - AUGER CUTTINGS
- S - 2" O.D. 1.38" I.D. DRIVE SAMPLE
- U - 3" O.D. 2.42" I.D. TUBE SAMPLE
- T - 3" O.D. THIN-WALLED SHELBY TUBE

BOREHOLE LOG (SOIL)

INSTALLATION ID Elmendorf AFB
LOCATION ID SP216-04
DATE STARTED 7/27/88

LITHOLOGIC LOG

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
32	↑	4'		U			N	N	fill	
34	↓									▽ Water @ 35.5 ft ATD
36	↑	9'		U	054 0001		N	N		
38	↓									
40										
42										
44									↓	
46	↑	11'		U			N	N		
48	↓								SP	SAND FILL - DENSE, DK. GRAY, COARSE GRAINED, V. CLAYEY W/ GRANULAR TO MED. PEBBLE GRAVELS.
50										
52										
54									CH	CLAY - STIFF, GRAY, HIGH PLASTIC
										BOOTLEGGER CLAY
										T.D. 55 ft
										WELL SET @ 50'

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

WELL COMPLETION INFORMATION

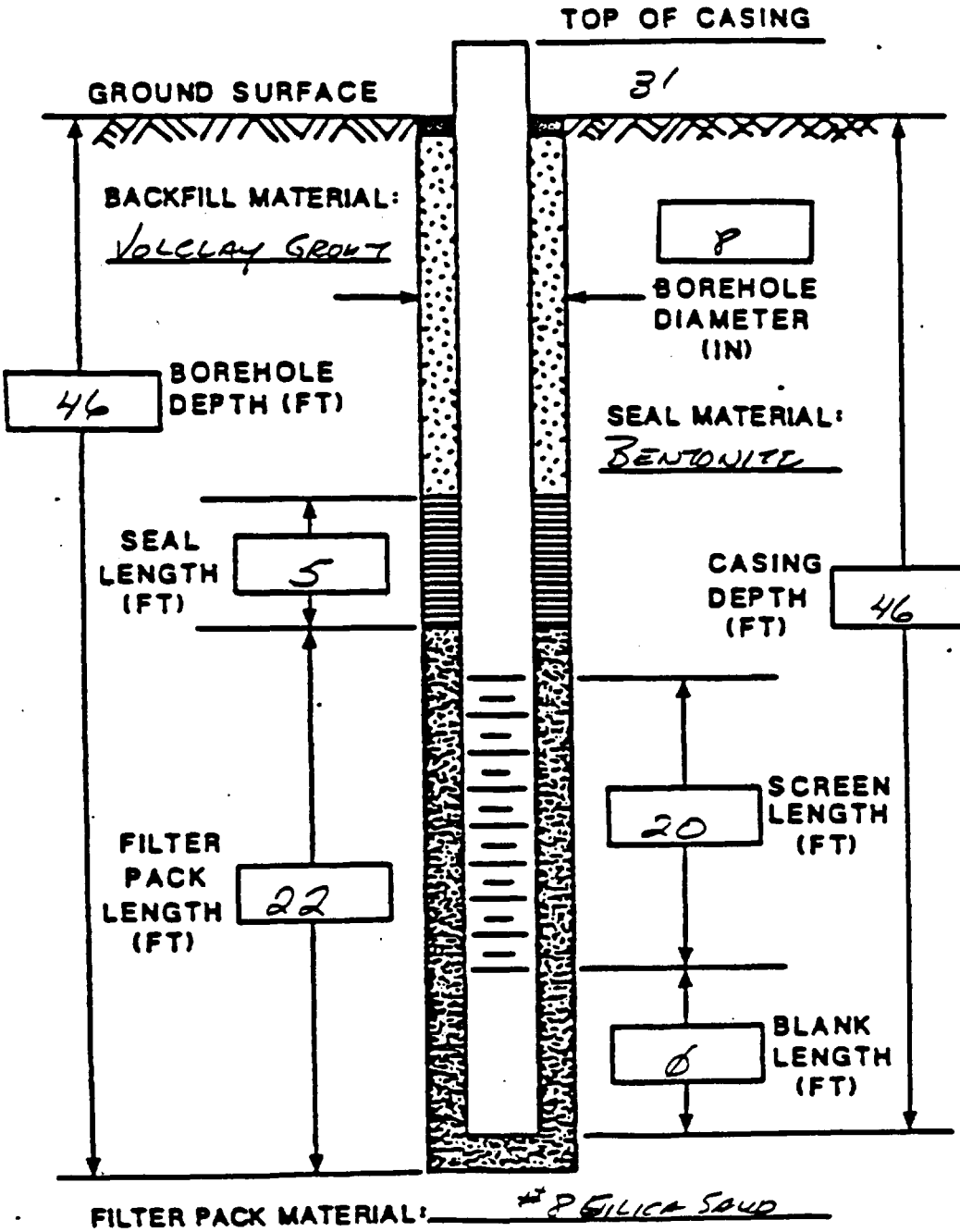
INSTALLATION ID ELMENDORF AFB
LOCATION ID SP216-05 (055)
WELL OWNER
WELL TYPE CLASS MNW
FORMATION OF COMPLETION SAND

LOCATION TYPE WL
INSTALLATION DATE 7/28/82
INSTALLER B&V
WELL COMPLETION METHOD
ZONE OF COMPLETION 46-26

SEAL END DEPTH (FT)
MEAS. POINT ELEV. (FTMSL)
CASING DEPTH (FT) 46'
CASING DIAMETER (IN) 2
CASING MATERIAL PVC

FILTER PACK LENGTH (FT) 22
SCREEN BEGIN. DEPTH (FT) 46
SCREEN LENGTH (FT) 20
SCREEN SLOT SIZE (IN) .010

REMARKS



WELL TYPE CLASSIFICATIONS (WTCCODE)
- MNW - MONITORING WELL
- PRW - PRODUCTION WELL
- TST - TEST WELL
- WSW - WATER SUPPLY WELL

CASING MATERIAL (CMACODE)
- ABS - ABS
- BRK - BRICK
- CBS - CARBON STEEL
- CNC - CONCRETE
- COP - COPPER
- FBG - FIBERGLASS
- GLS - GALVANIZED STEEL
- WRI - WROUGHT IRON
- SLS - STAINLESS STEEL
- LCS - LOW CARBON STEEL
- M - OTHER METAL
- TFL - TEFLON
- PLY - POLYPROPYLENE
- PVC - PVC
- RST - ROCK OR STONE
- STL - STEEL
- TIL - TILE
- COS - COATED STEEL
- WD - WOOD

ZONE OF COMPLETION (GZCCODE)
- A - AQUIFER
- C - CONFINING LAYER

WELL COMPLETION METHODS: (WCMCODE)
- C - POROUS CONCRETE
- GP - GRAVEL PACK W/PERF.
- GS - GRAVEL PACK W/SCREEN
- H - HORIZONTAL GALLERY
- OE - OPEN END
- P - PERFORATED OR SLOTTE
- S - SCREEN
- SP - SAND POINT
- W - WALLED OR SHORED
- OP - OPEN

BOREHOLE LOG (SOIL)

INSTALLATION ID ELMENDORF AFB LOCATION ID 5226-05 055
LOCATION TYPE BH LOCATION PROXIMITY I
COORDINATES (FT): NORTH ____ EAST ____
SURFACE ELEVATION (FTMSL) ____
DRILLER CODE DISC CONSTRUCTION METHOD HS
DATE STARTED 7/22/87 DATE COMPLETED 7/22/87
BOREHOLE DEPTH (FT.) 46 FT BOREHOLE DIAM. (IN) 8 IN

GROUNDWATER LEVELS		
DATE	TIME	DEPTH (FT)

LOCATION DESCRIPTION

MAP REFERENCE ID ____ LOCATION CROSS REFERENCE ____

LITHOLOGIC LOG

LOGGER CODE ____

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
2									CL	CLAY - SOFT, DK. BROWN, LOW PLASTIC, SILTY MIXED, DENSE CONSIST
4										
6		12"		U			N	N	GC	GRAVEL DENSE MOIST COLORED
8										V. COARSE SAND TO COBBLE SIZE, V. CLAYEY & SILTY
10										GRADING TO A SAND, DECREASING SAND
12		12"		U			N	N		SAND - LARGE, MED OLIVE-BROWN, FINE TO COARSE GRAINED SUB-ROUNDED
14									SP	COBBLE SIZE, V. CLAYEY, W/ GRAVEL TO MED DENSE CONSIST
16		14"		U			N	N		
18										
20										
22		14"		U			N	N		
24										
26		14"		U			N	N	SP	SEVERAL ZONES OF CLAYEY
28										
30										

LOCATION PROXIMITY (LPRCODE)
I - WITHIN INSTALLATION O - OUTSIDE INSTALLATION

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

CONSTRUCTION METHODS (CMCCODE)
- AR - AIR ROTARY
- B - BORED OR AUGERED
- C - CABLE-TOOL
- D - DUG
- HS - HOLLOW STEM AUGER
- J - JETTED
- P - AIR-PERCUSSION
- RM - REVERSE ROTARY, MUD
- T - TRENCHING
- V - DRIVEN
- W - DRIVE AND WASH

SAMPLE METHODS (SSMCODE)
- A - AUGER CUTTINGS
- S - 2" O.D. 1.38" I.D. DRIVE SAMPLE
- U - 3" O.D. 2.42" I.D. TUBE SAMPLE
- T - 3" O.D. THIN-WALLED SHELBY TUBE

BOREHOLE LOG (SOIL)

INSTALLATION ID Elmendorf AFB
LOCATION ID SP216-05 DATE STARTED 7/28/98

LITHOLOGIC LOG

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
32	↓	18"		4	0SS Dup:0		>50	YES	SP	H_2O @ 30ft BTO >50ppm SAMPLE
34										FREE PRODUCT ON WATER TABLE
36										
38										
40							5PPm	YES	SP	
42	↓	16"		4						
44										
46									CH	CLAY TR. ST. H, GRAY, HIGH PLASTIC BOOTLEGGER CLAY
										TD 46 ft
										WELL SET @ 46'

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

MONITOR WELL INFORMATION SHEET

GROUND SURFACE ELEVATION 1382

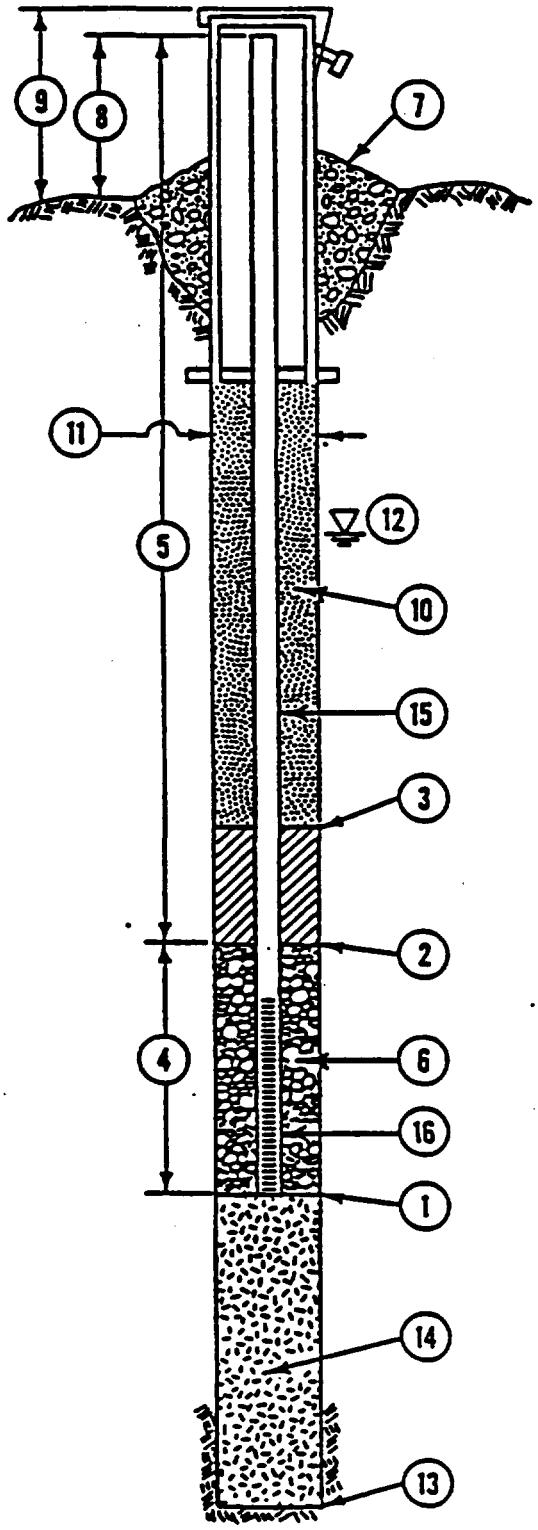
TOP OF WELL CASING ELEVATION 1402.7

JOB NUMBER 1016-265

BORING NUMBER GW6-A

DATE 9/13/86

LOCATION Elmendorf AFB



1. DEPTH TO BOTTOM OF WELL POINT OR SLOTTED PIPE 38.0 FEET.*
2. DEPTH TO BOTTOM OF SEAL (IF INSTALLED) 28.0 FEET.*
3. DEPTH TO TOP OF SEAL (IF INSTALLED) 26.0 FEET.*
4. LENGTH OF WELL SCREEN 10 FEET. SLOT SIZE 0.010.
5. TOTAL LENGTH OF PIPE 40.07 FEET AT 2 INCH DIAMETER.
6. TYPE OF PACK AROUND WELL POINT OR SLOTTED PIPE sand.
7. CONCRETE CAP. (YES) NO (CIRCLE ONE)
8. HEIGHT OF WELL CASING ABOVE GROUND 2.07 FEET.
9. PROTECTIVE CASING? (YES) NO (CIRCLE ONE)
   HEIGHT ABOVE GROUND 2.18 FEET.
   LOCKING CAP? (YES) NO (CIRCLE ONE)
10. TYPE OF UPPER BACKFILL cement-bentonite grout
11. BOREHOLE DIAMETER 9 INCHES.
12. DEPTH TO GROUND WATER 30.0 FEET.*
13. TOTAL DEPTH OF BOREHOLE 40.0 FEET.*
14. TYPE OF LOWER BACKFILL ——.
15. PIPE MATERIAL PVC.
16. SCREEN MATERIAL PVC.

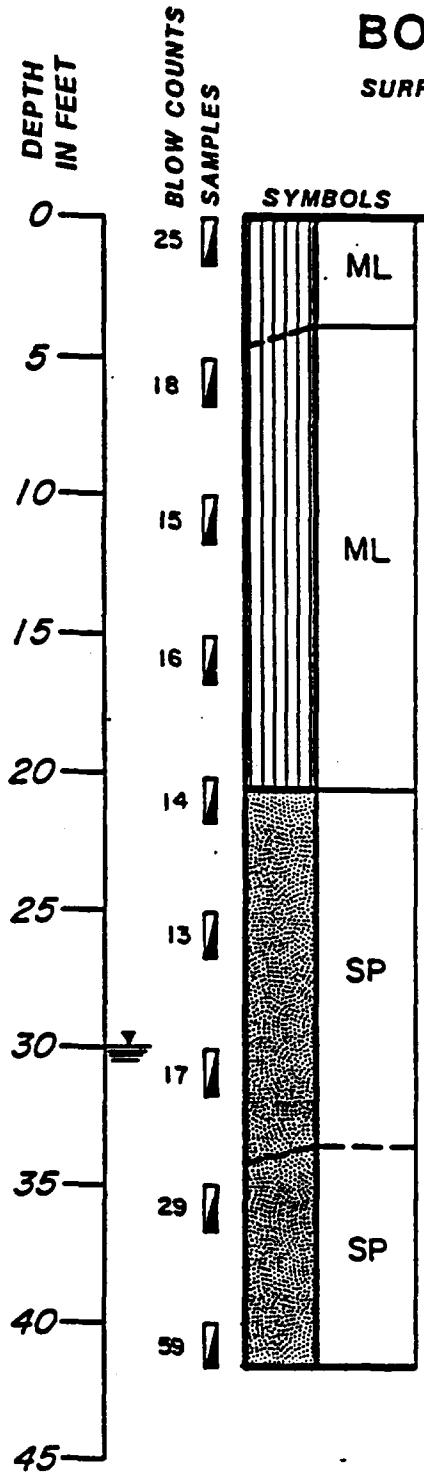
*(DEPTH FROM GROUND SURFACE)

MONITOR WELL INSTALLATION DETAILS

Dames & Moore

BORING GW-6A

SURFACE ELEVATION 138.20



DESCRIPTIONS	HNU READING
2 INCHES TOPSOIL REDDISH-BROWN SILTY CLAY WITH SOME FINE TO COARSE GRAVEL	0
DARK BROWN CLAYEY SILT WITH TRACE OF GRAVEL, SOIL IS SOFT AND DRY	0
LARGE PIECE OF WOOD IN END OF SAMPLE	0
	0
BROWN FINE TO MEDIUM SAND WITH TRACE TO SOME GRAVEL AND TRACE SILT	0
	0
BOTTOM 4 INCHES OF SAMPLE APPEAR TO BE SATURATED WITH FUEL, BENZENE - LIKE ODOR STEEL GRAY COLOR IN SATURATED SAND	15ppm
DARK GRAY MEDIUM TO COARSE SAND WITH GRAVEL. SATURATED WITH FUEL - WATER MIXTURE. SILVER METALLIC APPEARING MATERIAL MIXED THROUGHOUT SAMPLE	20ppm 13ppm BOREHOLE READING
STRONG FUEL ODOR	13ppm

BORING COMPLETED AT A DEPTH OF 41.5 FEET ON 9/13/86.
WATER ENCOUNTERED AT A DEPTH OF 30.0 FEET WHILE DRILLING.

LOG OF BORING

PLATE D-11

PIEZOMETER DETAIL INFORMATION SHEET

GROUND SURFACE ELEVATION _____

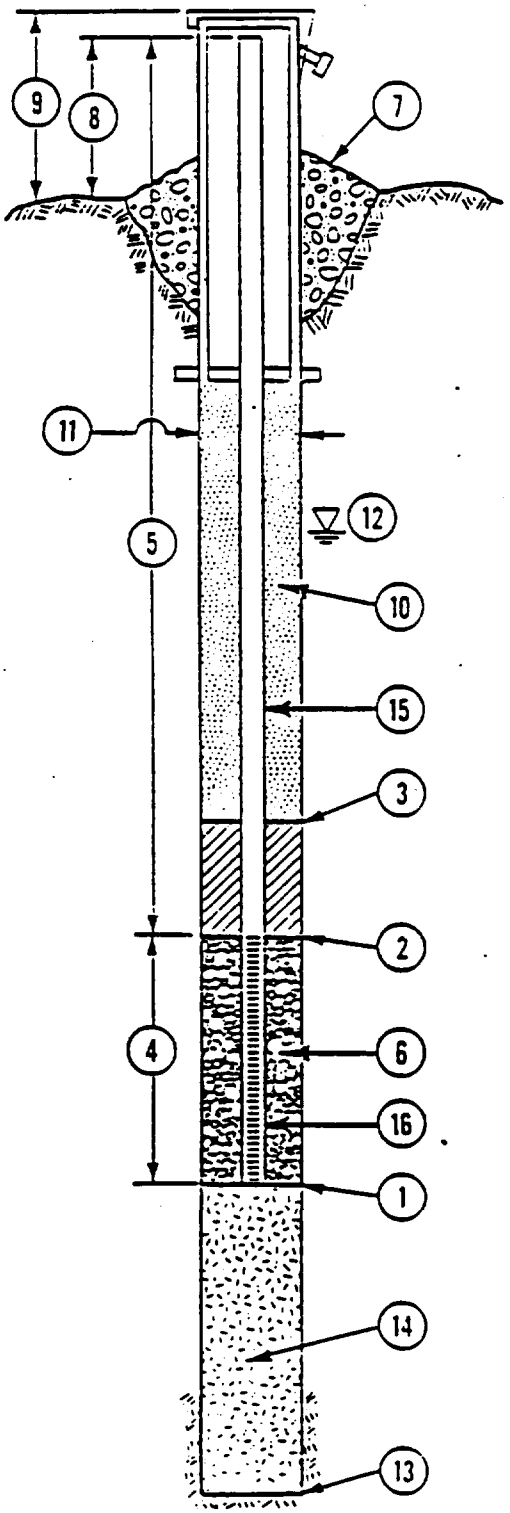
TOP OF WELL CASING ELEVATION _____

JOB NUMBER 216-204 / 216-200

BORING NUMBER W-16

DATE 6/20/84

LOCATION Elmendorf, AK



(1) DEPTH TO BOTTOM OF WELL POINT OR SLOTTED PIPE 55 FEET.*

(2) DEPTH TO BOTTOM OF SEAL (IF INSTALLED) 25 FEET.*

(3) DEPTH TO TOP OF SEAL (IF INSTALLED) 20 FEET.*

(4) LENGTH OF WELL SCREEN 28 FEET
SLOT SIZE .01

(5) TOTAL LENGTH OF PIPE 29½ FEET AT 2 INCH DIAMETER.

(6) TYPE OF PACK AROUND WELL POINT OR SLOTTED PIPE natural sand

(7) CONCRETE CAP. (YES) NO (CIRCLE ONE)

(8) HEIGHT OF WELL CASING ABOVE GROUND _____ FEET.

(9) PROTECTIVE CASING? (YES) NO (CIRCLE ONE)
HEIGHT ABOVE GROUND _____ FEET
LOCKING CAP? (YES) NO (CIRCLE ONE)

(10) TYPE OF UPPER BACKFILL cement

(11) BOREHOLE DIAMETER 8 INCHES.

(12) DEPTH TO GROUND WATER 32 FEET.*

(13) TOTAL DEPTH OF BOREHOLE 55 FEET.*

(14) TYPE OF LOWER BACKFILL none.

(15) PIPE MATERIAL pvc-sched-40

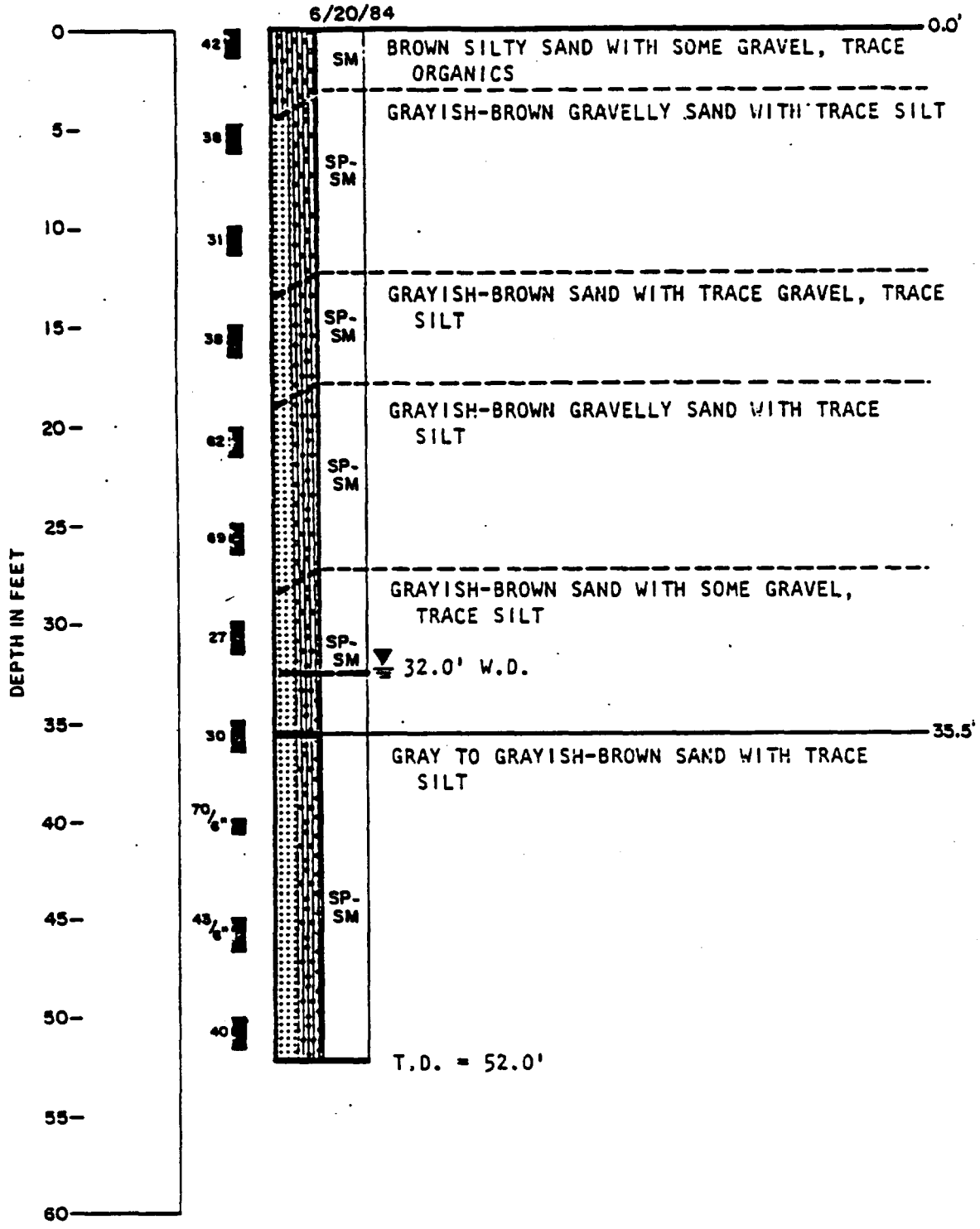
(16) SCREEN MATERIAL pvc-sched-40

*(DEPTH FROM GROUND SURFACE)

PIEZOMETER INSTALLATION DETAILS

Dames & Moore

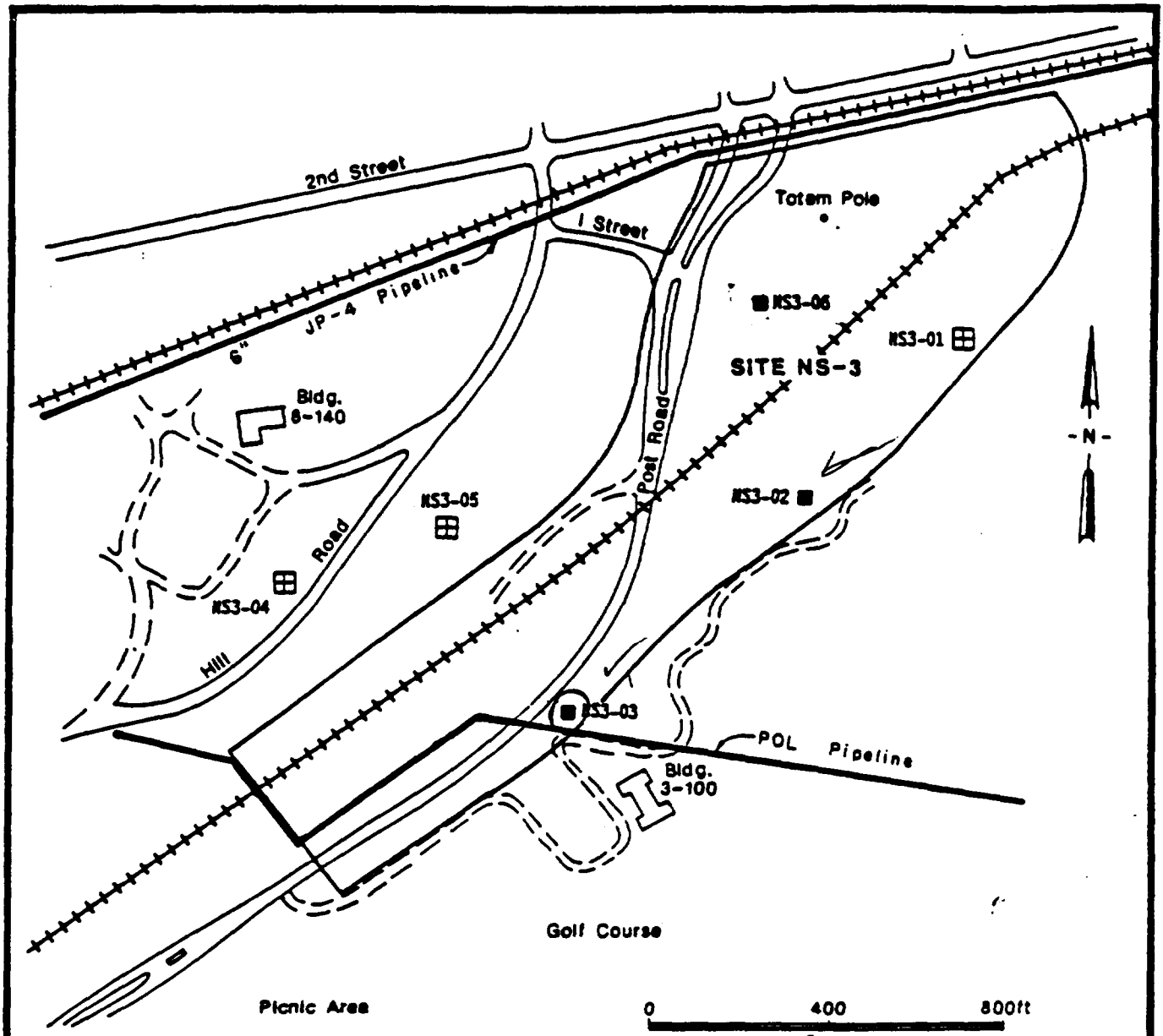
ELMENDORF AFB
BORING W-16



LOG OF BORING

Dames & Moore

PLATE C-20



005/5553

Legend:

NS3-02 ■ Monitoring Well Location Stage 3

NS3-01 ⊞ Stage 3 Borehole

+++++++ Railroad

LOCATION MAP
SITE NS-3

IRP Stage 3 RI/FS
Elmendorf AFB, AK

Figure
4.2.22.1

5553 005

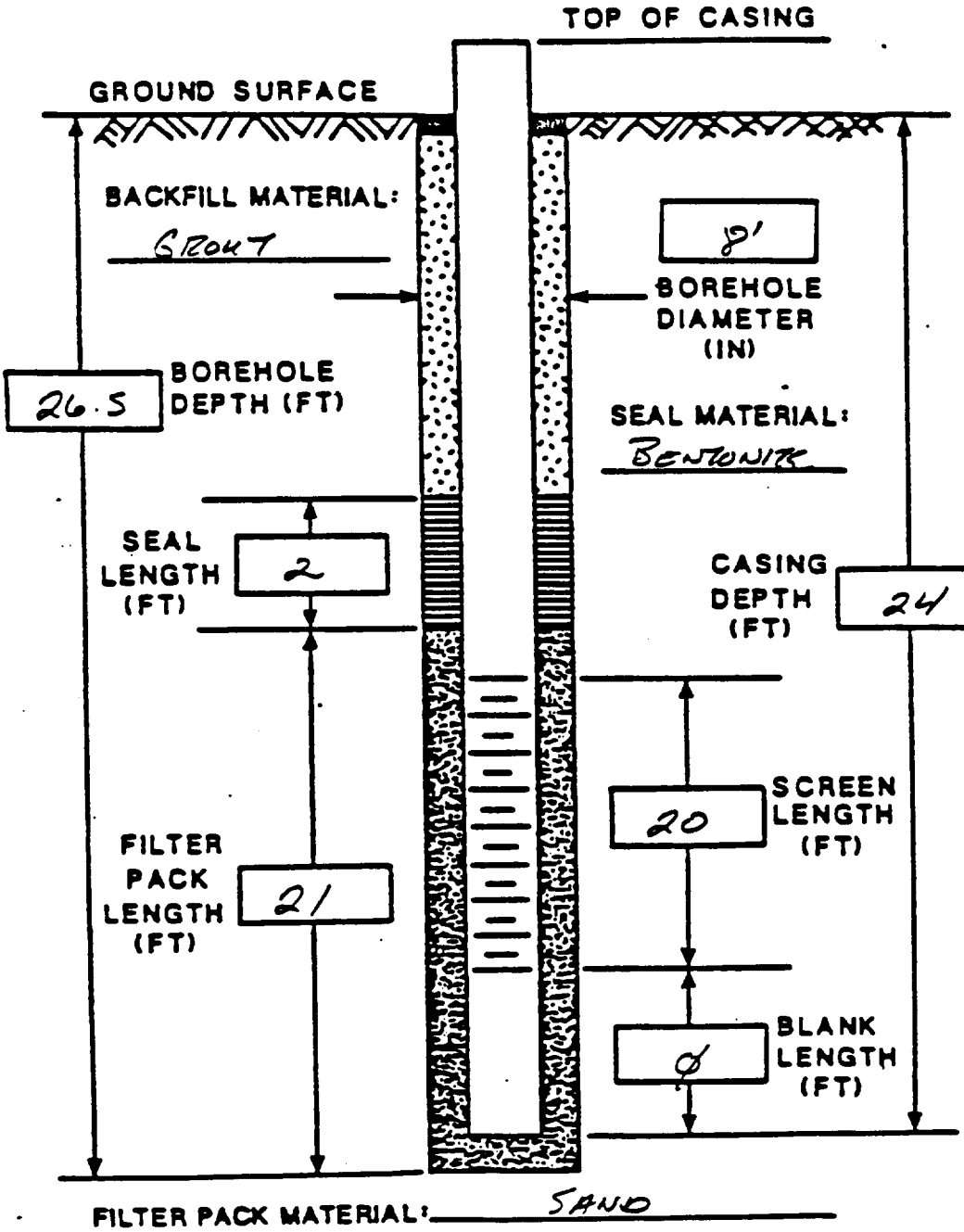
WELL COMPLETION INFORMATION

INSTALLATION ID ELMENDORF AFB
LOCATION ID NSS-02 (MW)(III)
WELL OWNER _____
WELL TYPE CLASS. MNW
FORMATION OF COMPLETION SAND/GRAVEL

LOCATION TYPE WL
INSTALLATION DATE 8/1/88
INSTALLER B&V
WELL COMPLETION METHOD GS
ZONE OF COMPLETION 24-4

SEAL END DEPTH (FT) 3
MEAS. POINT ELEV. (FTMSL) _____
CASING DEPTH (FT) 24
CASING DIAMETER (IN) 2"
CASING MATERIAL PVC
REMARKS _____

FILTER PACK LENGTH (FT) 21
SCREEN BEGIN. DEPTH (FT) 20
SCREEN LENGTH (FT) 20
SCREEN SLOT SIZE (IN) .01



WELL TYPE CLASSIFICATIONS (WTCODE)
- MNW - MONITORING WELL
- PRW - PRODUCTION WELL
- TST - TEST WELL
- WSW - WATER SUPPLY WELL

CASING MATERIAL (CMACODE)
- ABS - ABS
- BRK - BRICK
- CBS - CARBON STEEL
- CNC - CONCRETE
- COP - COPPER
- FBG - FIBERGLASS
- GLS - GALVANIZED STEEL
- WRI - WROUGHT IRON
- SLS - STAINLESS STEEL
- LCS - LOW CARBON STEEL
- M - OTHER METAL
- TFL - TEFLON
- PLY - POLYPROPYLENE
- PVC - PVC
- RST - ROCK OR STONE
- STL - STEEL
- TIL - TILE
- COS - COATED STEEL
- WD - WOOD

ZONE OF COMPLETION (GZCODE)
- A - AQUIFER
- C - CONFINING LAYER

WELL COMPLETION METHODS: (WCMCODE)
- C - POROUS CONCRETE
- GP - GRAVEL PACK W/PERF.
- GS - GRAVEL PACK W/SCREE
- H - HORIZONTAL GALLERY
- OE - OPEN END
- P - PERFORATED OR SLOTTE
- S - SCREEN
- SP - SAND POINT
- W - WALLED OR SHORED
- OP - OPEN

BOREHOLE LOG (SOIL)

INSTALLATION ID Elmendorf AFB — LOCATION ID NS3-02-W (III)
LOCATION TYPE BH — LOCATION PROXIMITY ____
COORDINATES (FT): NORTH ____ EAST ____
SURFACE ELEVATION (FTMSL) ____
DRILLER CODE DD — CONSTRUCTION METHOD HS
DATE STARTED 8/1/98 — DATE COMPLETED 8/1/98
BOREHOLE DEPTH (FT.) 26.5' — BOREHOLE DIAM. (IN) 8

GROUNDWATER LEVELS		
DATE	TIME	DEPTH (FT)
8/1/98		5ft ATD

LOCATION DESCRIPTION

MAP REFERENCE ID ____ LOCATION CROSS REFERENCE ____

LITHOLOGIC LOG — LOGGER CODE RH

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
2									CL	CLAY - SOME, DK. BROWN, LOW PLASTIC, W/ ORGANIC MATTER
4										GRAVEL - MED. DENSE, VARIED COLOR, MED. PEBBLE TO V. COARSE PEBBLE SIZE
6	↕	14"		U			N	N	GC	SUB-ROUNDED, POORLY SORTED, V. CLAYEY W/SOME ORGANIC MATTER.
8										
10										
12	↕	15"		U	111 0001		N	N	COAL	COAL - MED. DENSE, BLACK, WEATHERED W/ SAND INCLUSIONS
14										
16	↕	10"		U			N	N		SAND - DENSE, DK. GRAY, FINE TO COARSE GRAINED, POORLY SORTED
18										ROUNDED, V. CLAYEY, SILTY
20									SP	
22	↕	18"		U			N	N		
24										
26	↕	15"		U	111 0002		N	N	CL	CLAY - SOME, MED. BROWN, LOW PLASTIC
28										
30										

LOCATION PROXIMITY (LPRCODE)
I - WITHIN INSTALLATION O - OUTSIDE INSTALLATION

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

CONSTRUCTION METHODS (CMCCODE)
- AR - AIR ROTARY
- B - BORED OR AUGERED
- C - CABLE-TOOL
- D - DUG
- HS - HOLLOW STEM AUGER
- J - JETTED
- P - AIR-PERCUSSION
- RM - REVERSE ROTARY, MUD
- T - TRENCHING
- V - DRIVEN
- W - DRIVE AND WASH

SAMPLE METHODS (SSMCODE)
- A - AUGER CUTTINGS
- S - 2" O.D. 1.38" I.D. DRIVE SAMPLE
- U - 3" O.D. 2.42" I.D. TUBE SAMPLE
- T - 3" O.D. THIN-WALLED SHELBY TUBE

WELL COMPLETION INFORMATION

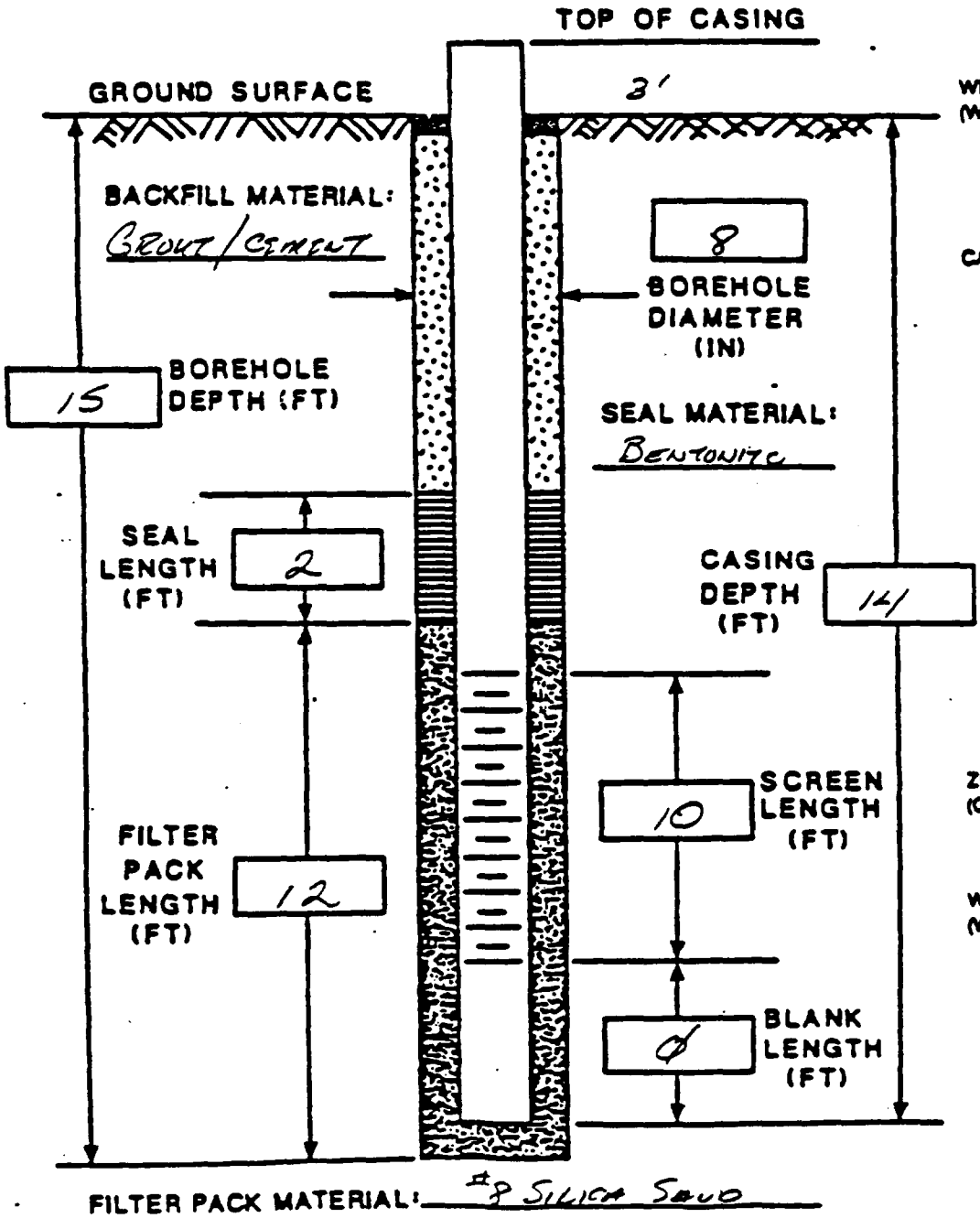
INSTALLATION ID ELMENDORF AFB
LOCATION ID NS3-03 (110)
WELL OWNER
WELL TYPE CLASS MNW
FORMATION OF COMPLETION SAND

LOCATION TYPE WL
INSTALLATION DATE 7/30/87
INSTALLER B&V
WELL COMPLETION METHOD S
ZONE OF COMPLETION 14-4

SEAL END DEPTH (FT)
MEAS. POINT ELEV. (FT MSL)
CASING DEPTH (FT) 14
CASING DIAMETER (IN) 2
CASING MATERIAL PVC

FILTER PACK LENGTH (FT) 12
SCREEN BEGIN. DEPTH (FT) 14
SCREEN LENGTH (FT) 10
SCREEN SLOT SIZE (IN) .010

REMARKS



WELL TYPE CLASSIFICATIONS (WTCODE)
- MNW - MONITORING WELL
- PRW - PRODUCTION WELL
- TST - TEST WELL
- WSW - WATER SUPPLY WELL

CASING MATERIAL (CMACODE)
- ABS - ABS
- BRK - BRICK
- CBS - CARBON STEEL
- CNC - CONCRETE
- COP - COPPER
- FBG - FIBERGLASS
- GLS - GALVANIZED STEEL
- WRI - WROUGHT IRON
- SLS - STAINLESS STEEL
- LCS - LOW CARBON STEEL
- M - OTHER METAL
- TFL - TEFLON
- PLY - POLYPROPYLENE
- PVC - PVC
- RST - ROCK OR STONE
- STL - STEEL
- TIL - TILE
- COS - COATED STEEL
- WD - WOOD

ZONE OF COMPLETION (GZCCODE)
- A - AQUIFER
- C - CONFINING LAYER

WELL COMPLETION METHODS (WCMCODE)
- C - POROUS CONCRETE
- GP - GRAVEL PACK W/PERF.
- GS - GRAVEL PACK W/SC
- H - HORIZONTAL GALLE
- OE - OPEN END
- P - PERFORATED OR SLOTT
- S - SCREEN
- SP - SAND POINT
- W - WALLED OR SHORED
- OP - OPEN

BOREHOLE LOG (SOIL)

PAGE 1 OF 1

INSTALLATION ID ELMENDORF AFB — LOCATION ID NS3-03 (110)
LOCATION TYPE BH — LOCATION PROXIMITY I
COORDINATES (FT): NORTH ____ EAST ____
SURFACE ELEVATION (FTMSL) ____
DRILLER CODE DISC. — CONSTRUCTION METHOD HS
DATE STARTED 7/30/82 — DATE COMPLETED 7/30/82
BOREHOLE DEPTH (FT.) 15ft — BOREHOLE DIAM. (IN) 8in

GROUNDWATER LEVELS		
DATE	TIME	DEPTH (FT)

LOCATION DESCRIPTION

MAP REFERENCE ID ____ LOCATION CROSS REFERENCE ____

LITHOLOGIC LOG — LOGGER CODE ____

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
2										2" TOPSOIL
4										GRAVEL - DENSE, VARIED COLOR;
6	↕	12"		U	110 0001		A	A		GRANULE TO COBBLE SIZE, POORLY SORTED SUB-ROUNDED
8										W/ V. COARSE SANDS, V. CLAYEY & SILTY
10										
12	↕	11"		U	110 0002		N	N		SAND - LOOSE, DK. BROWN, MED TO COARSE GRAINED, POORLY SORTED SUB-ROUNDED
14										V. CLAYEY, SILTY, W/ GRANULE TO MED. PEBBLE GRAVELS
16	↕	18"		U						
18										TD 15ft
										TO SAMPLE 16.5ft
										WELL SET @ 14ft

LOCATION PROXIMITY (LPRCODE)
I - WITHIN INSTALLATION O - OUTSIDE INSTALLATION

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

CONSTRUCTION METHODS (CMCCODE)
- AR - AIR ROTARY
- B - BORED OR AUGERED
- C - CABLE-TOOL
- D - DUG
- HS - HOLLOW STEM AUGER
- J - JETTED
- P - AIR-PERCUSSION
- RM - REVERSE ROTARY, MUD
- T - TRENCHING
- V - DRIVEN
- W - DRIVE AND WASH

SAMPLE METHODS (SSMCODE)
- A - AUGER CUTTINGS
- S - 2" O.D. 1.38" I.D. DRIVE SAMPLE
- U - 3" O.D. 2.42" I.D. TUBE SAMPLE
- T - 3" O.D. THIN-WALLED SHELBY TUBE

WELL COMPLETION INFORMATION

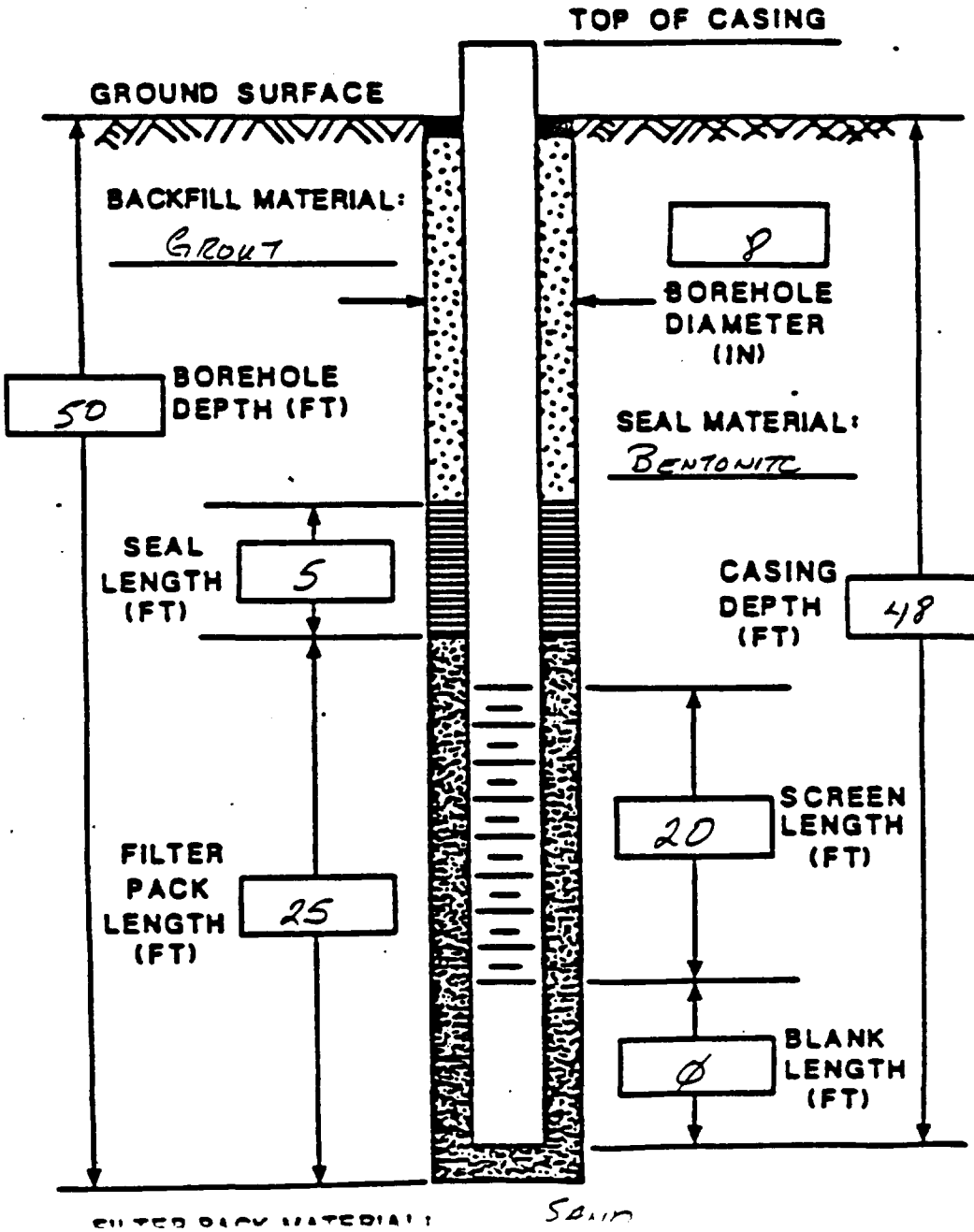
INSTALLATION ID: ELMENDORF AFB
LOCATION ID: NS3-06 (113)
WELL OWNER:
WELL TYPE CLASS: MNW
FORMATION OF COMPLETION: SAND

LOCATION TYPE: WL
INSTALLATION DATE: 8/3/83
INSTALLER: BIJ
WELL COMPLETION METHOD: GS
ZONE OF COMPLETION: 48-22

SEAL END DEPTH (FT): 25
MEAS. POINT ELEV. (FTMSL):
CASING DEPTH (FT): 48
CASING DIAMETER (IN): 2
CASING MATERIAL: PVC

FILTER PACK LENGTH (FT): 25
SCREEN BEGIN. DEPTH (FT): 48
SCREEN LENGTH (FT): 20
SCREEN SLOT SIZE (IN): .01

REMARKS:



WELL TYPE CLASSIFICATIONS (WTCCODE)
- MNW - MONITORING WELL
- PRW - PRODUCTION WELL
- TST - TEST WELL
- WSW - WATER SUPPLY WELL

CASING MATERIAL (CMACODE)
- ABS - ABS
- BRK - BRICK
- CBS - CARBON STEEL
- CNC - CONCRETE
- COP - COPPER
- FBG - FIBERGLASS
- GLS - GALVANIZED STEEL
- WRI - WROUGHT IRON
- SLS - STAINLESS STEEL
- LCS - LOW CARBON STEEL
- M - OTHER METAL
- TFL - TEFLON
- PLY - POLYPROPYLENE
- PVC - PVC
- RST - ROCK OR STONE
- STL - STEEL
- TIL - TILE
- COS - COATED STEEL
- WD - WOOD

ZONE OF COMPLETION (GZCCODE)
- A - AQUIFER
- C - CONFINING LAYER

WELL COMPLETION METHODS: (WCMCODE)
- C - POROUS CONCRETE
- GP - GRAVEL PACK W/PERF
- GS - GRAVEL PACK W/SCR
- H - HORIZONTAL GALLERY
- OE - OPEN END
- P - PERFORATED OR SLOTTE
- S - SCREEN
- SP - SAND POINT
- W - WALLED OR SHORED
- OP - OPEN

BOREHOLE LOG (SOIL)

INSTALLATION ID ELMENDORF AFT — LOCATION ID NS3-26-WELL (113)
LOCATION TYPE BH — LOCATION PROXIMITY ____
COORDINATES (FT): NORTH ____ EAST ____
SURFACE ELEVATION (FTMSL) ____
DRILLER CODE DD — CONSTRUCTION METHOD HS
DATE STARTED 2/3/22 — DATE COMPLETED 2/3/22
BOREHOLE DEPTH (FT.) ____ — BOREHOLE DIAM. (IN) 8"

GROUNDWATER LEVELS		
DATE	TIME	DEPTH (FT)
2/3/22		30.4 ATD

LOCATION DESCRIPTION

MAP REFERENCE ID ____ LOCATION CROSS REFERENCE ____

LITHOLOGIC LOG — LOGGER CODE ____

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
2										
4	↕	8"		4			N	N		GRAVEL - DENSE, VARIED COLORS, COBBLE TO COBBLE SIZE, ANGULAR TO ROUNDED, POORLY SORTED, V. CLAYEY & SANDY.
6									GC	
8										
10										
12	↕	10"		4			N	N		
14										
16	↕	19"		4			N	N	GC	GRAVEL - DENSE, VARIED COLORS, COBBLE TO COBBLE SIZE, ANGULAR TO SUB-ROUNDED, POORLY SORTED, V. SANDY & CLAYEY
18										
20										
22	↕	16"		4			N	N		
24									GC	GRAVEL - DENSE, VARIED COLORS, GRANULE TO COBBLE SIZE, ANGULAR TO SUB-ROUNDED, POORLY SORTED, V. SANDY, CLAYEY
26	↕	6"		4			100+	N		
28										
30									SP	

LOCATION PROXIMITY (LPRCODE)
I - WITHIN INSTALLATION O - OUTSIDE INSTALLATION

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

CONSTRUCTION METHODS (CMCCODE)
- AR - AIR ROTARY
- B - BORED OR AUGERED
- C - CABLE-TOOL
- D - DUG
- HS - HOLLOW STEM AUGER
- J - JETTED
- P - AIR-PERCUSSION
- RM - REVERSE ROTARY, MUD
- T - TRENCHING
- V - DRIVEN
- W - DRIVE AND WASH

SAMPLE METHODS (SSMCODE)
- A - AUGER CUTTINGS
- S - 2" O.D. 1.38" I.D. DRIVE SAMPLE
- U - 3" O.D. 2.42" I.D. TUBE SAMPLE
- T - 3" O.D. THIN-WALLED SHELBY TUBE

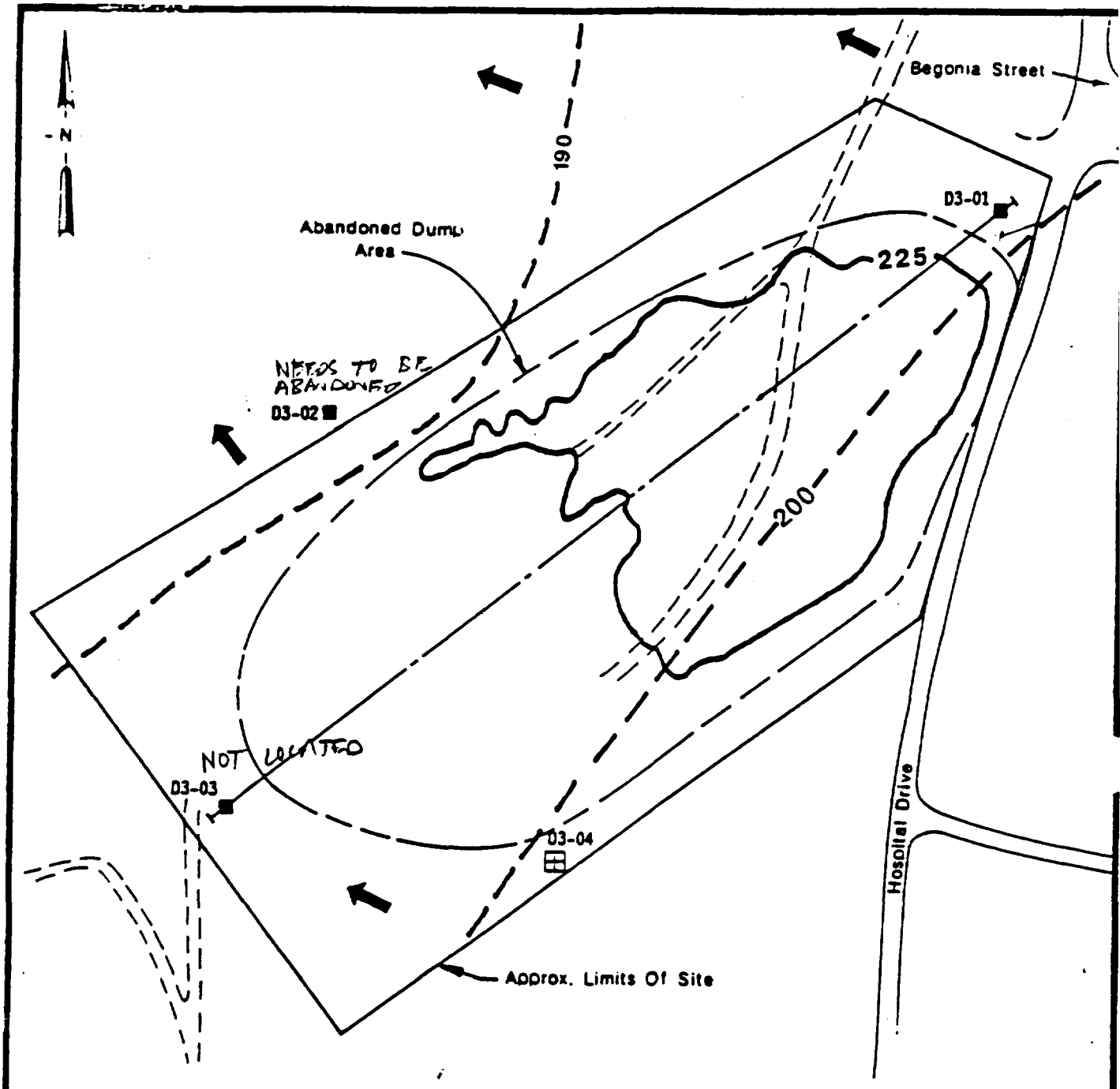
BOREHOLE LOG (SOIL)

INSTALLATION ID ELMENDORF AFB
LOCATION ID NS3-26-WELL (113) DATE STARTED 2/3/88

LITHOLOGIC LOG

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
32	↕	16"		4	113 0001		N	N		SAND - DENSE, DK. BROWN, MED. TO V. COARSE, GRAINED, SUB-ROUNDED TO ROUNDED
34										W/GRANULE TO MED. PEBBLE GRAVEL, V. CLAYEY & SILTY
36									SP	
38										
40										
42	↕	18"		4	113 0002 DUPED		N	N		SAND - DENSE, DK. BROWN, MED. TO V. COARSE GRAINED SUB-ROUNDED TO ROUNDED
44										SORTED, W/GRANULE TO LOW COBBLE GRAVEL, CLAYEY & SILTY
46										
48										
50										

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST



Legend:

- D3-04 — Stage 3 Borehole
- D3-02 — Monitoring Well Location Stage 3
- 230 — Water table contour. Contour intervals: 10ft.
- Approximate direction of groundwater flow.
- 300 — Landsurface elevation contour. Contour intervals: 20ft.
- Geologic Cross Section

0 200 400ft
Scale

HYDROGEOLOGIC MAP
SITE D-3

IRP Stage 3 RI/FS
Elmendorf AFB, AK

Figure 4.2.1.3

WELL COMPLETION INFORMATION

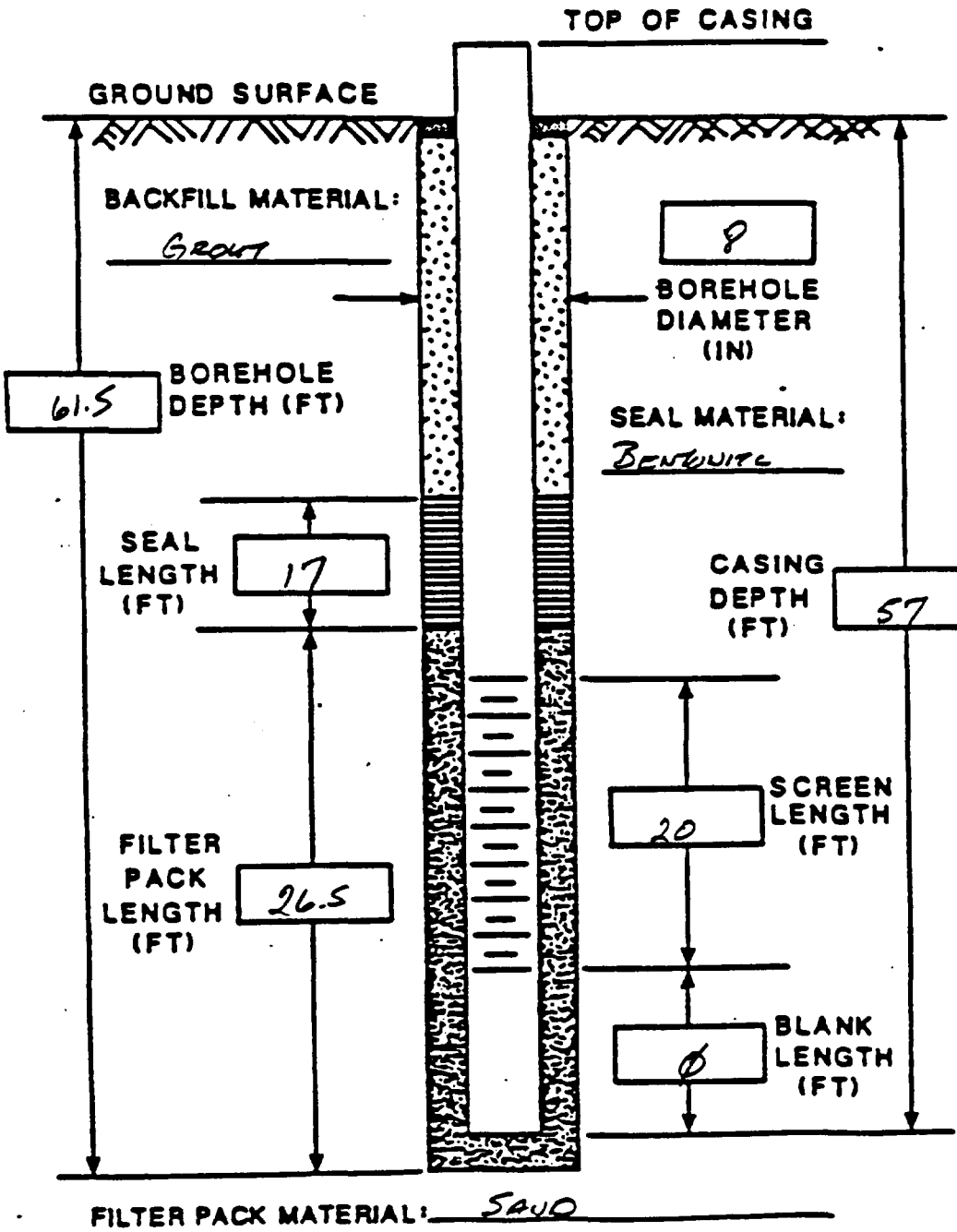
INSTALLATION ID ELMENDORF AFB
LOCATION ID D3-01 (001)
WELL OWNER
WELL TYPE CLASS. MNW
FORMATION OF COMPLETION GRAVELS

LOCATION TYPE WL
INSTALLATION DATE 7/13/88
INSTALLER BEV
WELL COMPLETION METHOD GS
ZONE OF COMPLETION A2-27

SEAL END DEPTH (FT) 35ft
MEAS. POINT ELEV. (FTMSL)
CASING DEPTH (FT) 57ft
CASING DIAMETER (IN) 2"
CASING MATERIAL PVC

FILTER PACK LENGTH (FT) 26.5
SCREEN BEGIN. DEPTH (FT) 57
SCREEN LENGTH (FT) 20
SCREEN SLOT SIZE (IN) .01

REMARKS



WELL TYPE CLASSIFICATIONS (WTCCODE)
- MNW - MONITORING WELL
- PRW - PRODUCTION WELL
- TST - TEST WELL
- WSW - WATER SUPPLY WELL

CASING MATERIAL (CMACODE)
- ABS - ABS
- BRK - BRICK
- CBS - CARBON STEEL
- CNC - CONCRETE
- COP - COPPER
- FBG - FIBERGLASS
- GLS - GALVANIZED STEEL
- WRI - WROUGHT IRON
- SLS - STAINLESS STEEL
- LCS - LOW CARBON STEEL
- M - OTHER METAL
- TFL - TEFLON
- PLY - POLYPROPYLENE
- PVC - PVC
- RST - ROCK OR STONE
- STL - STEEL
- TIL - TILE
- COS - COATED STEEL
- WD - WOOD

ZONE OF COMPLETION (GZCCODE)
- A - AQUIFER
- C - CONFINING LAYER

WELL COMPLETION METHODS: (WCMCODE)
- C - POROUS CONCRETE
- GP - GRAVEL PACK W/PERF.
- GS - GRAVEL PACK W/SCREE
- H - HORIZONTAL GALLERY
- OE - OPEN END
- P - PERFORATED OR SLOTTE
- S - SCREEN
- SP - SAND POINT
- W - WALLED OR SHORED
- OP - OPEN

BOREHOLE LOG (SOIL)

INSTALLATION ID ELMENDORF AFB — LOCATION ID DS-01 (001)
LOCATION TYPE BH — LOCATION PROXIMITY I
COORDINATES (FT): NORTH _____ EAST _____
SURFACE ELEVATION (FTMSL) _____
DRILLER CODE DISC — CONSTRUCTION METHOD HS
DATE STARTED 7/12/88 — DATE COMPLETED 7/13/88
BOREHOLE DEPTH (FT.) 61.5 ft — BOREHOLE DIAM. (IN) 8in

GROUNDWATER LEVELS		
DATE	TIME	DEPTH (FT)

LOCATION DESCRIPTION
NE QUADRANT / CORNER of DS SITE.

MAP REFERENCE ID _____ LOCATION CROSS REFERENCE _____

LITHOLOGIC LOG — LOGGER CODE _____

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
2							N	N	CL	CLAY - LOOSE, MED. BROWN, V. SILTY, W/ GRAVEL of VARYING SIZE.
4										
6	↕			4			N	N		CLAY - LOOSE, MED. BROWN, V. SILTY W/ LARGE GRAVELS
8										
10										
12	↕			4			N	N	CL	CLAY - FIRM, MED. BROWN, V. SYLTLY W GRAVELS
14										
16	↕			4			N	N		VERY LARGE BOULDER or ROCK
18										
20										
22	↕			4			N	N	CL	V. GRAVELLY
24										
26	↕			4			N	N		SILT - MED. STIFF, MED. BROWN. CLAYEY
28									ML	LYSOME FINE SAND & 65% SMALL GRAVELS. VERY COHESIVE. MOIST
30										

LOCATION PROXIMITY (LPRCODE)
I - WITHIN INSTALLATION O - OUTSIDE INSTALLATION

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

CONSTRUCTION METHODS (CMCCODE)
AR - AIR ROTARY
B - BORED OR AUGERED
C - CABLE-TOOL
D - DUG
P - AIR-PERCUSSION
RM - REVERSE ROTARY, MUD
T - TRENCHING
V - DRIVEN

SAMPLE METHODS (SSMCODE)
A - AUGER CUTTINGS
S - 2" O.D. 1.38" I.D. DRIVE SAMPLE
U - 3" O.D. 2.42" I.D. TUBE SAMPLE
T - 3" O.D. THIN-WALLED SHELBY TUBE

BOREHOLE LOG (SOIL)

INSTALLATION ID ELMENDORF AFB
LOCATION ID DB-01 DATE STARTED 7/12/88

LITHOLOGIC LOG

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
32	↕			U	001 0001		N	N	SW	SAND - DENSE, DK. BROWN, MED TO FINE GRAINED, WELL SORTED, WELL ROUNDED, SL. SILTY, V. WET
34										
36									ML	SILT - V. DENSE, MED. BROWN, V. CLAYEY W/GRAVELS, SANDY
38										
40										
42	↕			U			N	N	GM	GRAVEL - V. DENSE, GRAY, V. CLAYEY & SILTY, V. WET
44										
46										
48										
50										
52	↕			U	001 0002		N	N	GM	GRAVEL - V. DENSE, GRAY-BROWN, V. CLAYEY, SANDY, SILTY
54										
56										
58										
60									SP	SAND - DENSE, GRAY, MED. TO COARSE GRAINED, POORLY SORTED, WELL ROUNDED, CLAYEY, V. WET, W/ CLAYEY GRAVELS IN THE MIDDLE & BOTTOM OF SAMPLE SEPERATED BY A CLAYEY, MED. GRAINED SAND,
62	↕			U			N	N		

T.D. 61.5 ft.
WELL SET @ 57 ft
COMPLETED 7/13/88

UPPER WATER LENS - 30.5 ft TO 33 ft.

LOWER WATER TABLE - @ 39 ft A.T.D.

ENTER CODE - SEE SITECODE LIST, THEN APPROPRIATE CODE LIST

WELL COMPLETION INFORMATION

ECM

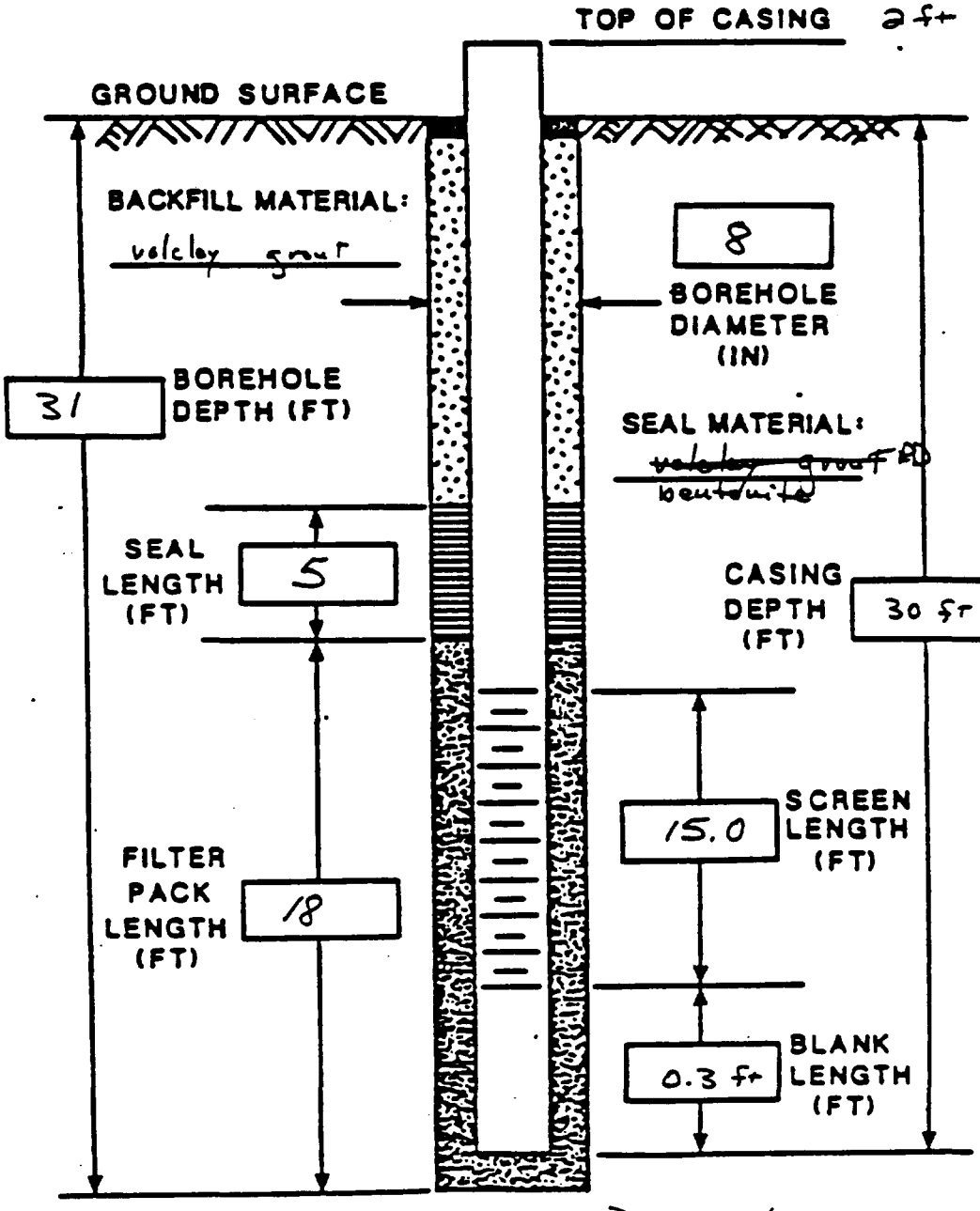
INSTALLATION ID 0687
LOCATION ID D3-02 (002)
WELL OWNER USAF
WELL TYPE CLASS. MNW
FORMATION OF COMPLETION #8 Sand

LOCATION TYPE WL
INSTALLATION DATE 13 July 88
INSTALLER R. Dugan
WELL COMPLETION METHOD GS
ZONE OF COMPLETION A

SEAL END DEPTH (FT) 13
MEAS. POINT ELEV. (FTMSL) ~ 210
CASING DEPTH (FT) 15 ft + to screen
CASING DIAMETER (IN) 2 in ID
CASING MATERIAL PVC

FILTER PACK LENGTH (FT) 18
SCREEN BEGIN. DEPTH (FT) 15
SCREEN LENGTH (FT) 15
SCREEN SLOT SIZE (IN) .02

REMARKS cement pad and 6 in steel protective casing installed at ground surface



WELL TYPE CLASSIFICATIONS (WTCODE)

- MNW - MONITORING WELL
- PRW - PRODUCTION WELL
- TST - TEST WELL
- WSW - WATER SUPPLY WELL

CASING MATERIAL (CMACODE

- ABS - ABS
- BRK - BRICK
- CBS - CARBON STEEL
- CNC - CONCRETE
- COP - COPPER
- FBG - FIBERGLASS
- GLS - GALVANIZED STEEL
- WRI - WROUGHT IRON
- SLS - STAINLESS STEEL
- LCS - LOW CARBON STEEL
- M - OTHER METAL
- TFL - TEFLON
- PLY - POLYPROPYLENE
- PVC - PVC
- RST - ROCK OR STONE
- STL - STEEL
- TIL - TILE
- COS - COATED STEEL
- WD - WOOD

ZONE OF COMPLETION (GZCCODE)

- A - AQUIFER
- C - CONFINING LAYER

WELL COMPLETION METHODS: (WCMCODE)

- C - POROUS CONCRETE
- GP - GRAVEL PACK W/PEP
- GS - GRAVEL PACK W/SI
- H - HORIZONTAL GALLERY
- OE - OPEN END
- P - PERFORATED OR SLOTT
- S - SCREEN
- SP - SAND POINT
- W - WALLED OR SHORED
- OP - OPEN

FILTER PACK MATERIAL: #8 Silica sand

BOREHOLE LOG (SOIL)

ELM

INSTALLATION ID 0682 LOCATION ID D3-02 (002)

LOCATION TYPE BH LOCATION PROXIMITY I

COORDINATES (FT): NORTH _____ EAST _____

SURFACE ELEVATION (FTMSL) 210 ft

DRILLER CODE _____ CONSTRUCTION METHOD HS

DATE STARTED 12 July 88 DATE COMPLETED 13 July

BOREHOLE DEPTH (FT.) 31 ft BOREHOLE DIAM. (IN) 8 in

GROUNDWATER LEVELS		
DATE	TIME	DEPTH (FT)
12 July 88	1700	26 (good sty)

LOCATION DESCRIPTION

West side of D3 landfill.

70 ft west

MAP REFERENCE ID _____ LOCATION CROSS REFERENCE _____

LITHOLOGIC LOG LOGGER CODE _____

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
1									GW	0 - 9 ft: Brown coarse
3										gravel with some sa
5	T			U			N	N		trace silt, dense,
7	↓									numerous cobbles
9									SM	9-23 ft: Brown silty sa
11	↓	↓	↓	U	002/0001		N	N		with some coarse gr
13										occasional cobbles dama
15	T	T		U			N	N		
17	↓	↓								
19										
21	↓	↓		U			N	N		
23										
25	T	T		U			N	N	ML	23-27 ft: Gray-brown sandy silt
27	↓	↓								with some coarse grav
29									SP	moist, very dense

LOCATION PROXIMITY (LPRCODE)
I - WITHIN INSTALLATION O - OUTSIDE INSTALLATION

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

CONSTRUCTION METHODS (CMCCODE)

AR - AIR ROTARY
B - BORED OR AUGERED
C - CABLE-TOOL
D - DUG
P - AIR-PERCUSSION
RM - REVERSE ROTARY, MUD
T - TRENCHING
V - DRIVEN

SAMPLE METHODS (SSMCODE)

A - AUGER CUTTINGS
S - 2" O.D. 1.38" I.D. DRIVE SAMPLE
U - 3" O.D. 2.42" I.D. TUBE SAMPLE
T - 3" O.D. THIN-WALLED SHELBY TUBE

BOREHOLE LOG (SOIL)

ELM

INSTALLATION ID 0687

LOCATION ID D3-2 ~~(000)~~ (002)

DATE STARTED 12 July 88

LITHOLOGIC LOG

DEPTH (FT) 30 ft	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
31 -	↓	↓	↓	U	~~000~~ 0002		15	yes organic	SP	27 - 31.0 ft : Gray sand (medium) with trace si trace gravel, wet, de
33 -										

SEE SITCODE LIST, THEN APPROPRIATE CODE LIST

WELL COMPLETION INFORMATION

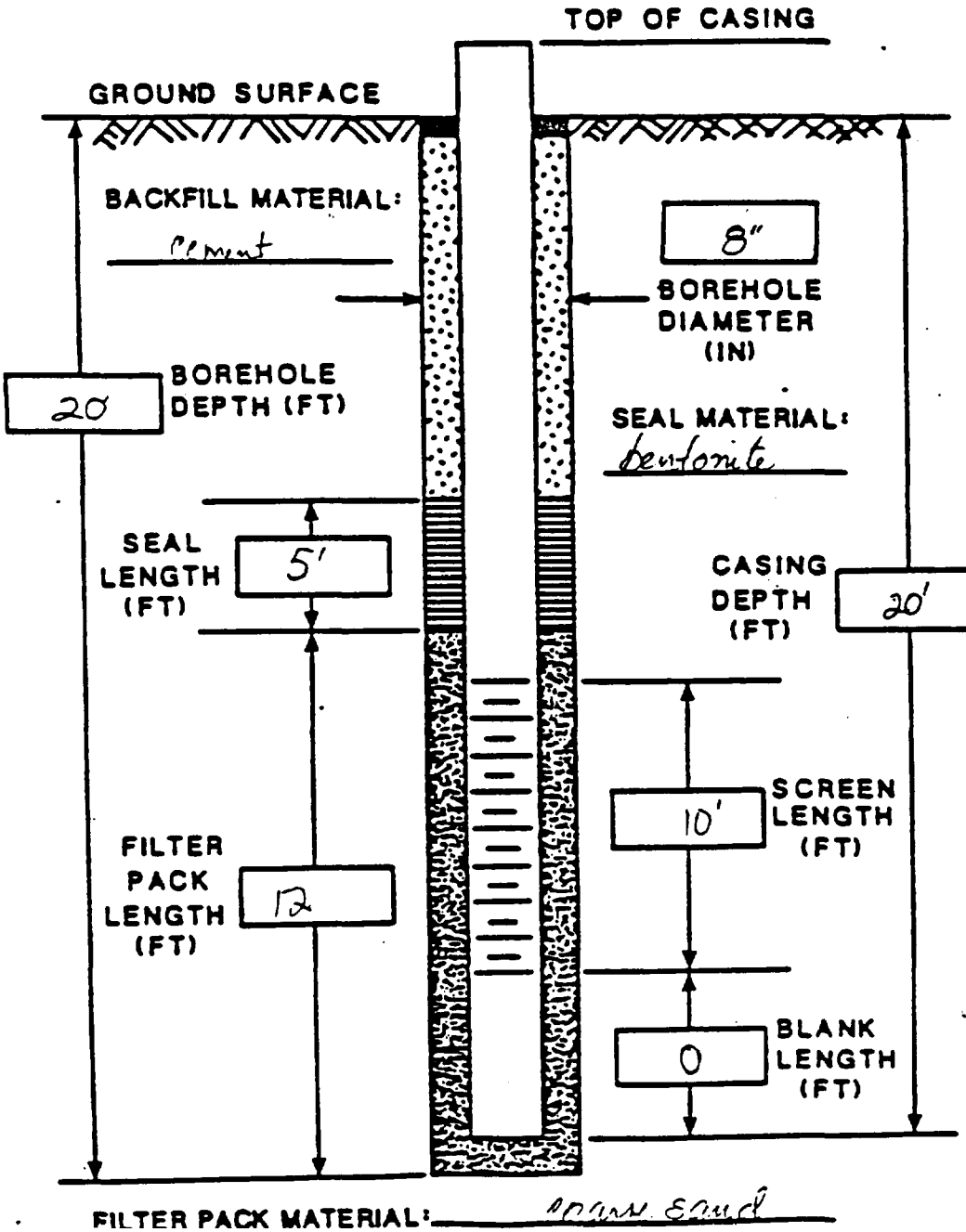
INSTALLATION ID ELM (0687)
LOCATION ID 22-3(003)
WELL OWNER
WELL TYPE CLASS. MW(U)
FORMATION OF COMPLETION

LOCATION TYPE WL
INSTALLATION DATE July 13, 1989
INSTALLER
WELL COMPLETION METHOD GS
ZONE OF COMPLETION 10'

SEAL END DEPTH (FT)
MEAS. POINT ELEV. (FTMSL)
CASING DEPTH (FT) 20'
CASING DIAMETER (IN) 2"
CASING MATERIAL PVC.

FILTER PACK LENGTH (FT) 12'
SCREEN BEGIN. DEPTH (FT) 20'
SCREEN LENGTH (FT) 10'
SCREEN SLOT SIZE (IN)

REMARKS



WELL TYPE CLASSIFICATIONS (WTCCODE)
- (MNW) - MONITORING WELL
- PRW - PRODUCTION WELL
- TST - TEST WELL
- WSW - WATER SUPPLY WELL

CASING MATERIAL (CMACODE)
- ABS - ABS
- BRK - BRICK
- CBS - CARBON STEEL
- CNC - CONCRETE
- COP - COPPER
- FBG - FIBERGLASS
- GLS - GALVANIZED STEEL
- WRI - WROUGHT IRON
- SLS - STAINLESS STEEL
- LCS - LOW CARBON STEEL
- M - OTHER METAL
- TFL - TEFLON
- PLY - POLYPROPYLENE
- (PVC) - PVC
- RST - ROCK OR STONE
- STL - STEEL
- TIL - TILE
- COS - COATED STEEL
- WD - WOOD

ZONE OF COMPLETION (GZCCODE)
- A - AQUIFER
- C - CONFINING LAYER

WELL COMPLETION METHODS: (WCMCODE)
- C - POROUS CONCRETE
- GP - GRAVEL PACK W/PERF.
- (GS) - GRAVEL PACK W/SCREE
- H - HORIZONTAL GALLERY
- OE - OPEN END
- P - PERFORATED OR SLOTTE
- S - SCREEN
- SP - SAND POINT
- W - WALLED OR SHORED
- OP - OPEN

BOREHOLE LOG (SOIL)

INSTALLATION ID ELM (0687) (0087) LOCATION ID D23-3(003)
LOCATION TYPE BH LOCATION PROXIMITY I
COORDINATES (FT): NORTH _____ EAST _____
SURFACE ELEVATION (FTMSL) 210'
DRILLER CODE _____ CONSTRUCTION METHOD _____
DATE STARTED July 13, 1988 DATE COMPLETED _____
BOREHOLE DEPTH (FT.) _____ BOREHOLE DIAM. (IN) 8"

GROUNDWATER LEVELS		
DATE	TIME	DEPTH (FT)
July 13, 1988	4:20 p	15'1" from collar
July 14, 1988	2:05 p	9'7" from casing

LOCATION DESCRIPTION

MAP REFERENCE ID _____ LOCATION CROSS REFERENCE _____

LITHOLOGIC LOG LOGGER CODE _____

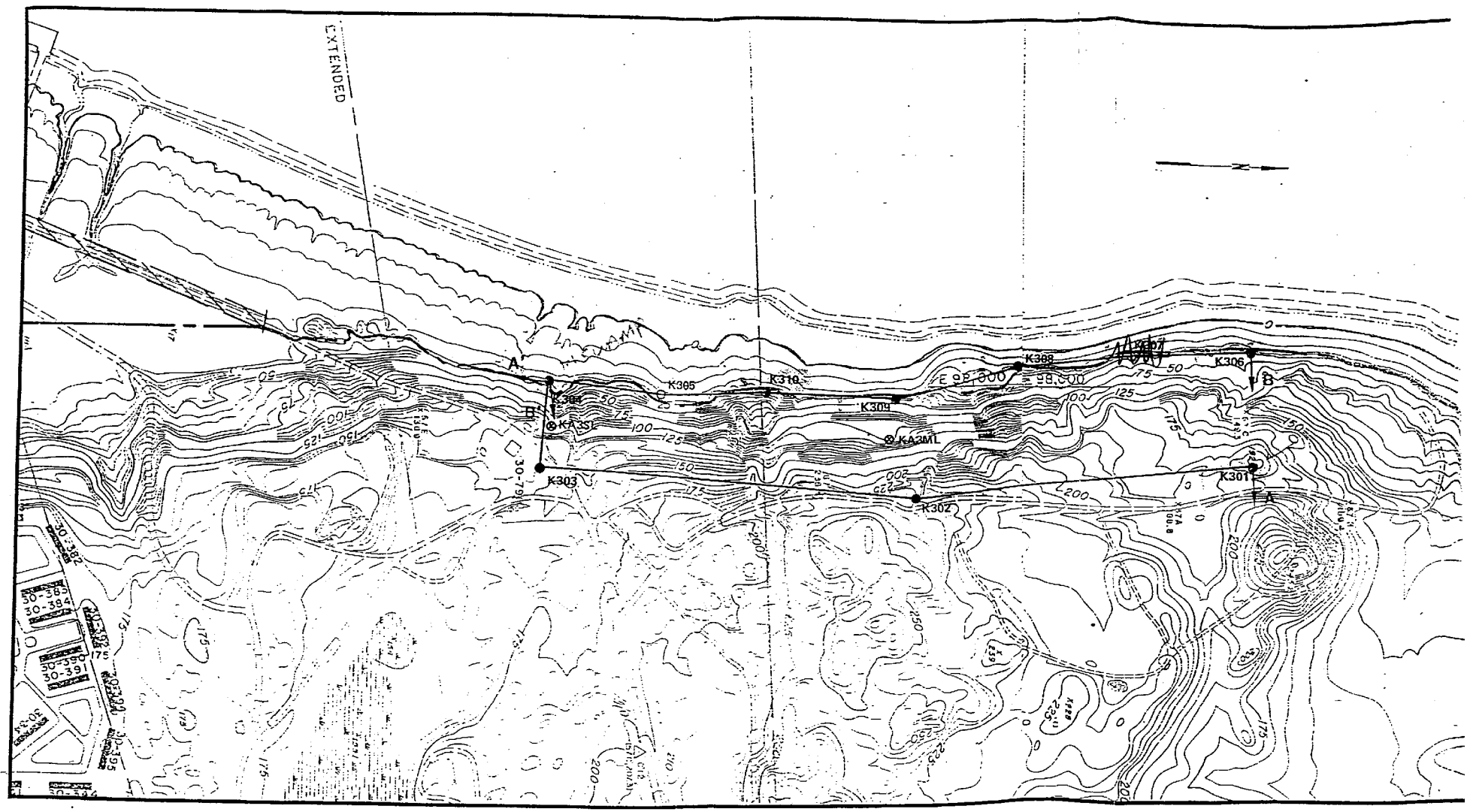
DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
1	↓	12"	003/0001		003/0001		N	earthy		
3										
5	T	6"		U			N	none	GM	Brown silty gravel w/ boulders, damp
7	↓									
8	~	~	~	~	~	~	~	~	~	~
9										
11	↓	6"		U			N	none	GM	Br. silty gravel w/ boulders
13										
15	T	12"	003/0002	U	003/0001		N	none	SM	gray brown sandy silt, occasional pebble, some clay
17	↓									
19										TD @ 20' completed as a
20										Monitoring Well

LOCATION PROXIMITY (LPRCODE)
I - WITHIN INSTALLATION O - OUTSIDE INSTALLATION

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

CONSTRUCTION METHODS (CMCCODE)
AR - AIR ROTARY
B - BORED OR AUGERED
C - CABLE-TOOL
D - DUG
P - AIR-PERCUSSION
RM - REVERSE ROTARY, MUD
T - TRENCHING
V - DRIVEN

SAMPLE METHODS (SSMCODE)
A - AUGER CUTTINGS
S - 2" O.D. 1.38" I.D. DRIVE SAMPLE
U - 3" O.D. 2.42" I.D. TUBE SAMPLE
T - 3" O.D. THIN-WALLED SHELBY TUBE



SOURCE : Department of the Air Force
Master Plan — Base Plan
Tab No. C–1; Sheet 1 of 8 and Sheet 4 of 8
September 1, 1966

LEGEND:
- ● Wells
- ○ Borings
- ⊗ Springs

Geologic Cross Section A–A' and B–B' Shown on Drawing 1

SCALE 400 0 400 Fe

Figure

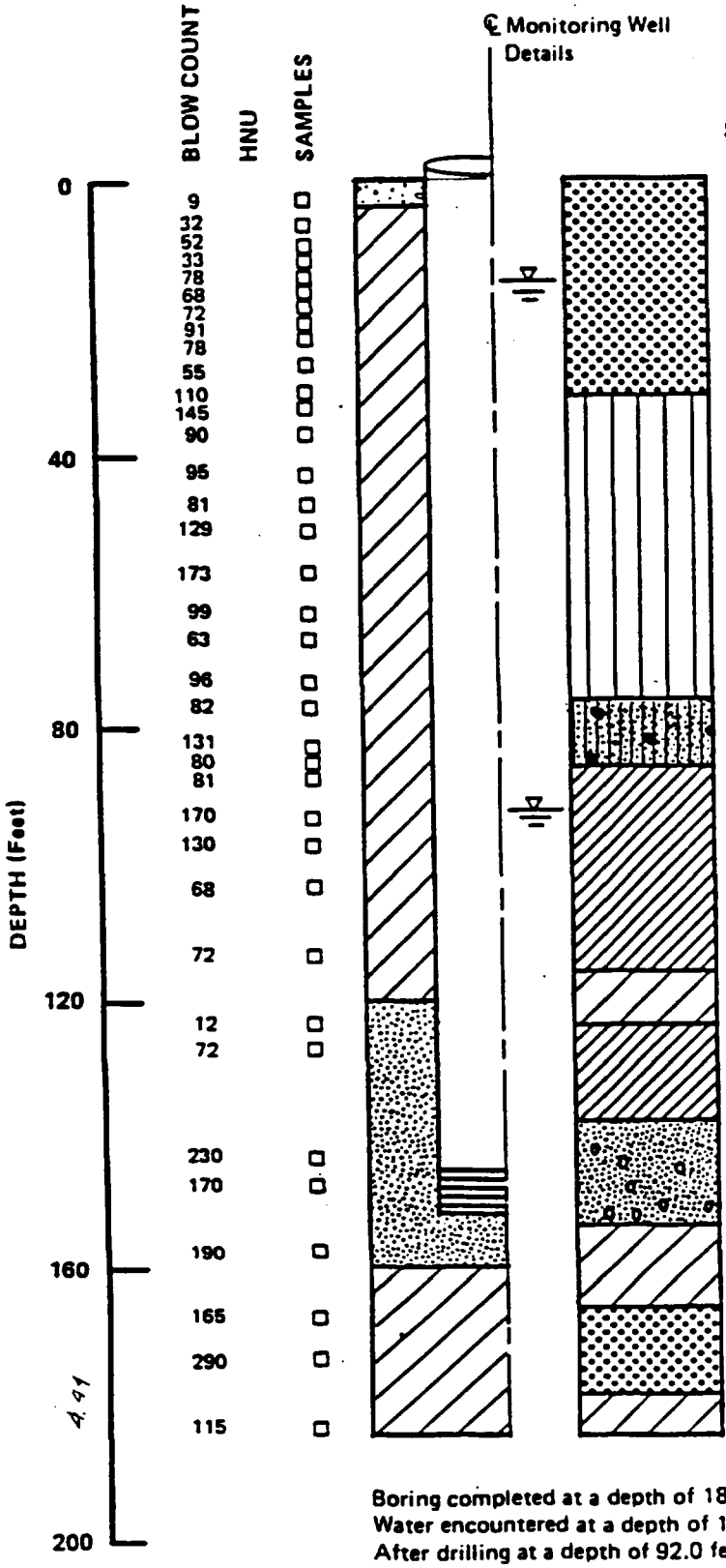
PRIORITY 3: KNIK ARM BLUFF LANDFIL

ELMENDORF AIR FORCE BA
Anchorage, Alas

September 1988

HESHARZA
ENVIRONMENTAL SERVICES, INC

LF504 01



BORING LOG

SYMBOLS	DESCRIPTIONS
SP	DARK GRAY FINE SAND WITH SOME GRAVEL.TRACE SILT
ML/SC	DARK GRAY SILT WITH CLAYEY SAND AND GRAVEL
SM	DARK GRAY SILTY SAND WITH TRACE GRAVEL
CH	GRAY CLAY, SILTY CLAY IN UPPER PART
CL	CLAY WITH SOME GRAVEL
CH	STIFF CLAY
GW	GRAVEL, GRAVEL AND SAND MIXTURES,MORE SAND AT THE UPPER PART
CL	CLAY, SILT WITH SOME SAND IN UPPER PART
SP	FINE SAND INTERBEDDED WITH CLAY
CL	CLAY WITH SOME SILT AND GRAVEL

Boring completed at a depth of 183.0 feet on November 30, 1987.
Water encountered at a depth of 15.0 feet while drilling.
After drilling at a depth of 92.0 feet on December 9, 1987.
2" diameter PVC well installed to 151 feet.
Elevation of top of casing is 187.64 feet.

** No HNU Readings Recorded on Field Log

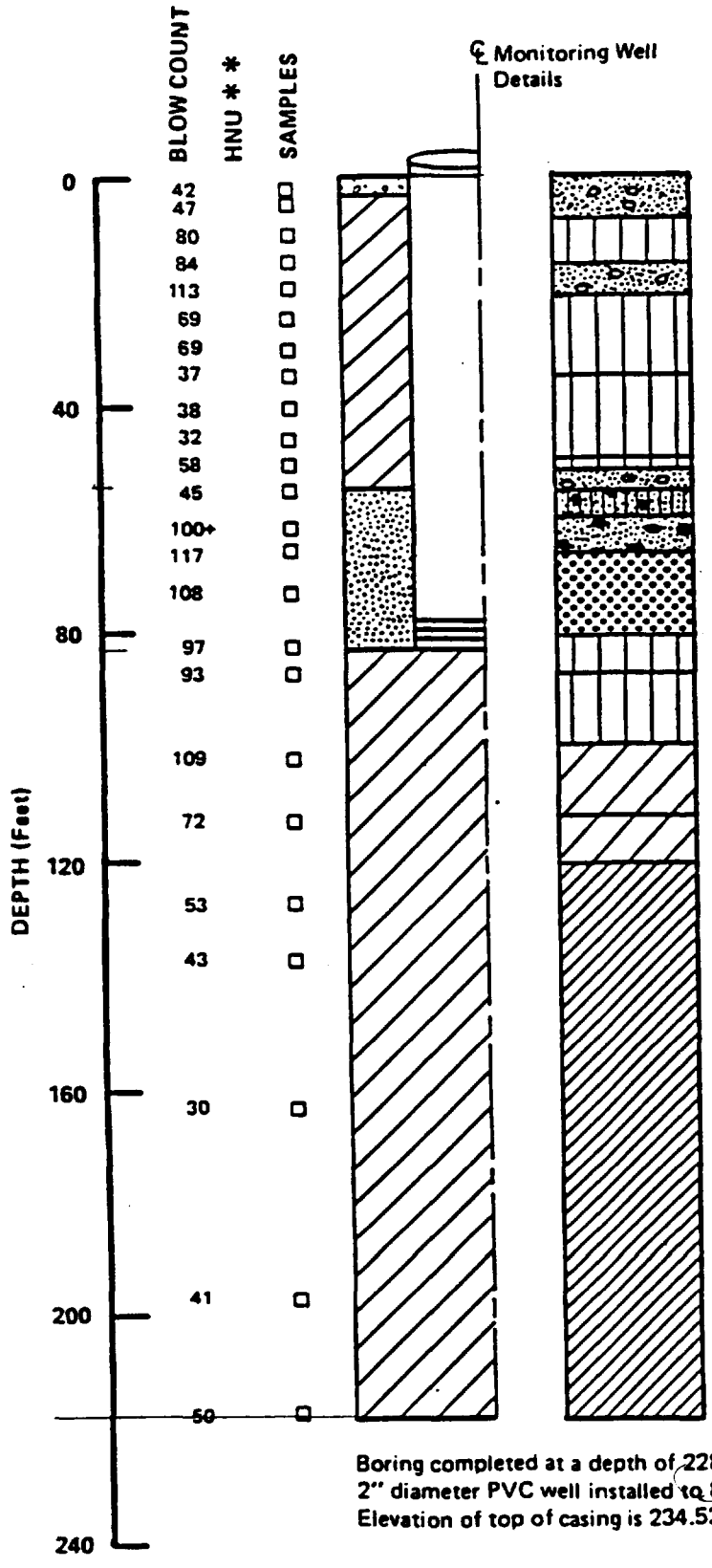
Logs generated by Harza from field notes provided by Denali Drilling, Inc. and James M. Montgomery, Consulting Engineers, Inc.

HARZA ENVIRONMENTAL SERVICES INC.

September 1988

PRIORITY 3: KNIK ARM LANDFILL
BORING K301

ELMENDORF AIR FORCE BASE
Anchorage, Alaska



BORING LOG

SYMBOLS	DESCRIPTIONS
GW	SANDY GRAVEL WITH TRACE SILT
ML	SILT WITH SOME FINE SAND
GW	SANDY GRAVEL WITH TRACE SILT
ML/SP	SANDY SILT, GRAVELLY SAND
ML	SILT WITH SOME FINE SAND
ML	SILT, SILTY CLAY
GW	SANDY GRAVEL
SM	SILTY FINE SAND
GP	SANDY GRAVEL
SP	FINE SAND WITH SOME SILT
ML	SILT WITH SOME SAND
ML/CL	SILT AND CLAY
CL	SILTY CLAY
CL	CLAY WITH SEAMS SAND
CH	STIFF CLAY

Boring completed at a depth of 228.0 feet on December 15, 1987.
2" diameter PVC well installed to 83 feet.
Elevation of top of casing is 234.52 feet.

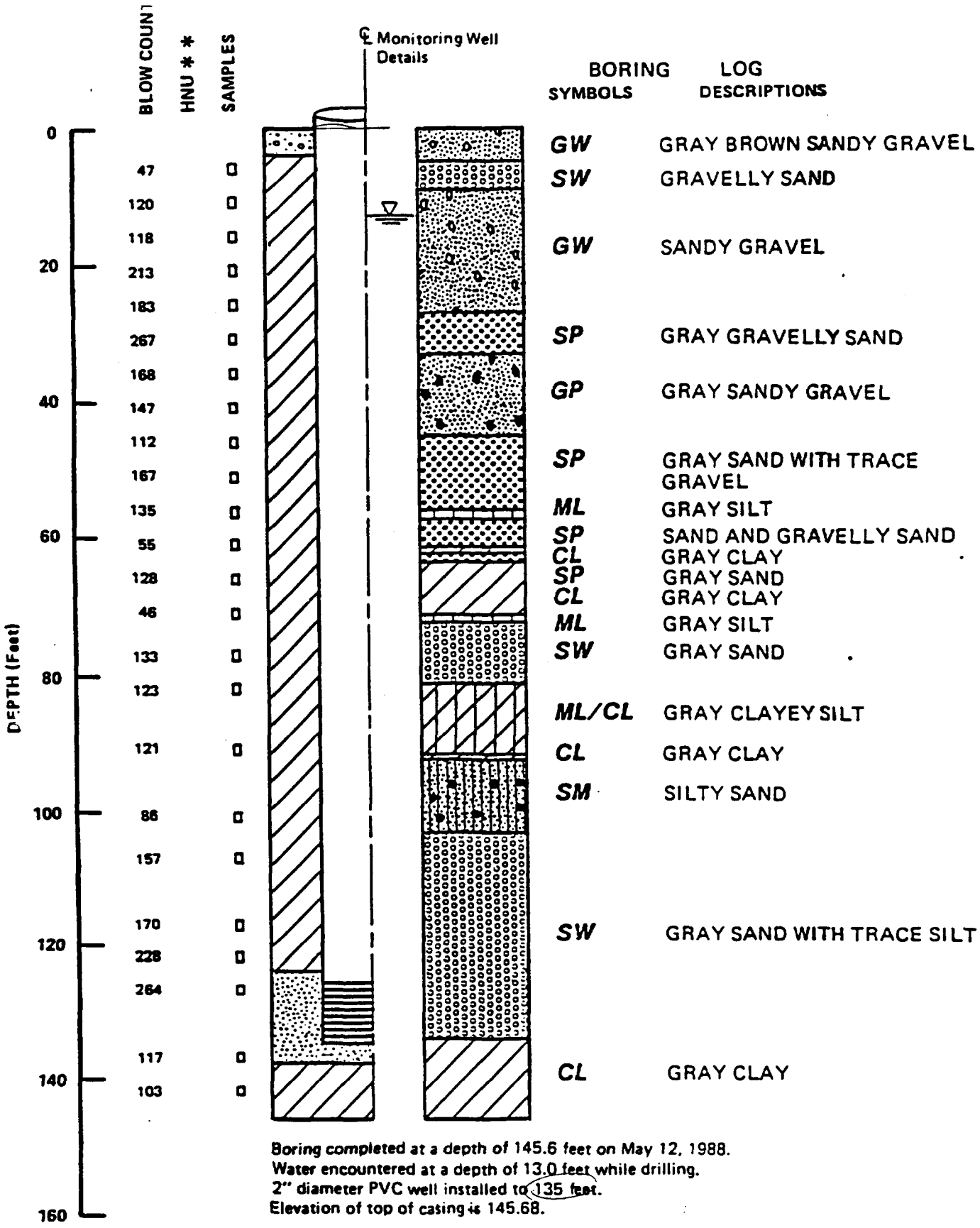
* * No HNU Readings Recorded on Field Log

PRIORITY 3: KNIK ARM LANDFILL
BORING K302

ELMENDORF AIR FORCE BASE
Anchorage, Alaska

Logs generated by Harza from field notes provided by
Denali Drilling, Inc. and James M. Montgomery, Consulting Engineers, Inc.

HES HARZA ENVIRONMENTAL SERVICES INC. September 1988



Boring completed at a depth of 145.6 feet on May 12, 1988.
Water encountered at a depth of 13.0 feet while drilling.
2" diameter PVC well installed to 135 feet.
Elevation of top of casing is 145.68.

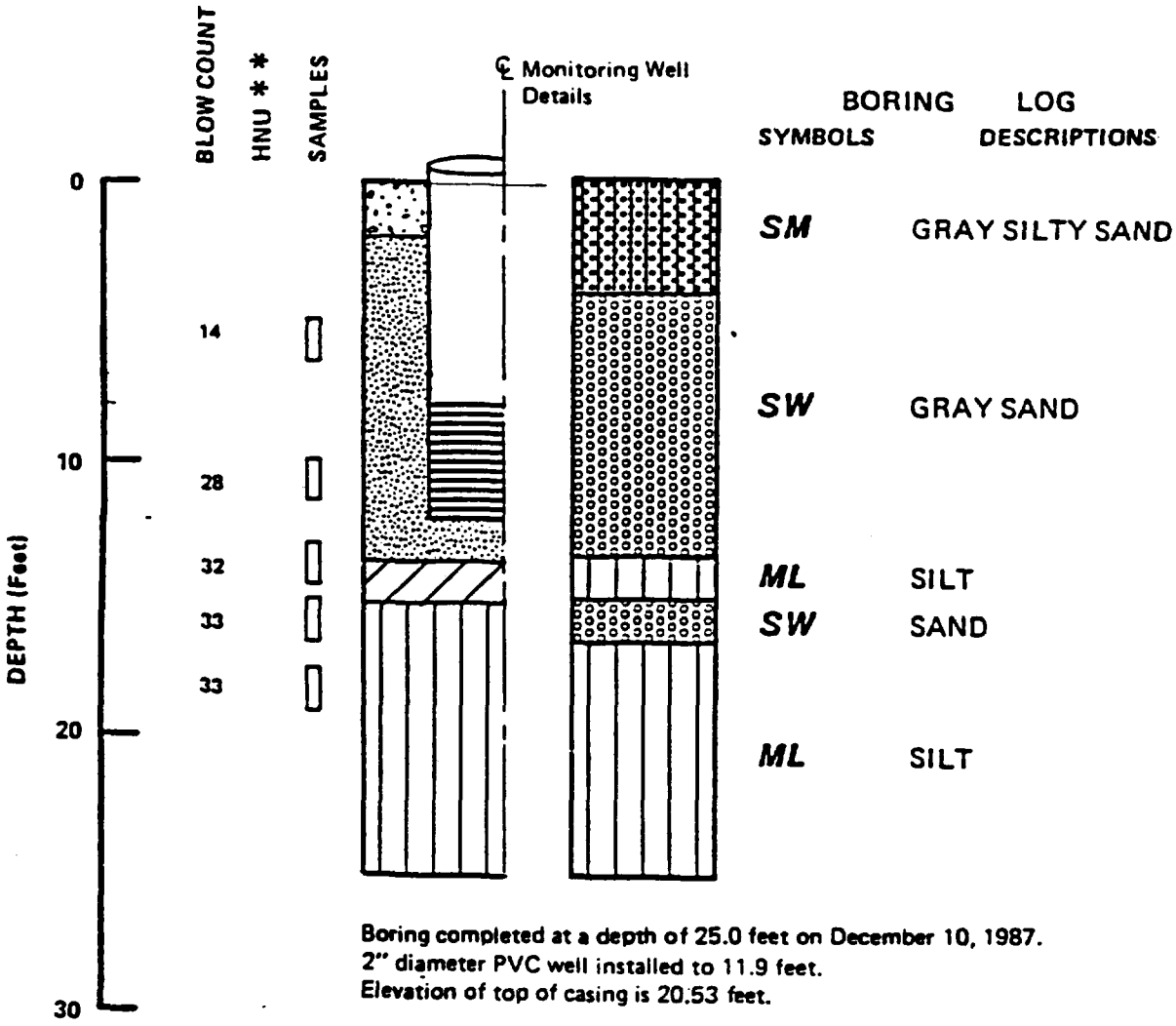
* * No HNU Readings Recorded on Field Log

Logs generated by Harza from field notes provided by Denali Drilling, Inc. and James M. Montgomery, Consulting Engineers, Inc.

HES HARZA ENVIRONMENTAL SERVICES INC. September 1988

PRIORITY 3: KNIK ARM LANDFILL
BORING K303

ELMENDORF AIR FORCE BASE
Anchorage, Alaska



Boring completed at a depth of 25.0 feet on December 10, 1987.
2" diameter PVC well installed to 11.9 feet.
Elevation of top of casing is 20.53 feet.

* * No HNU Readings Recorded on Field Log

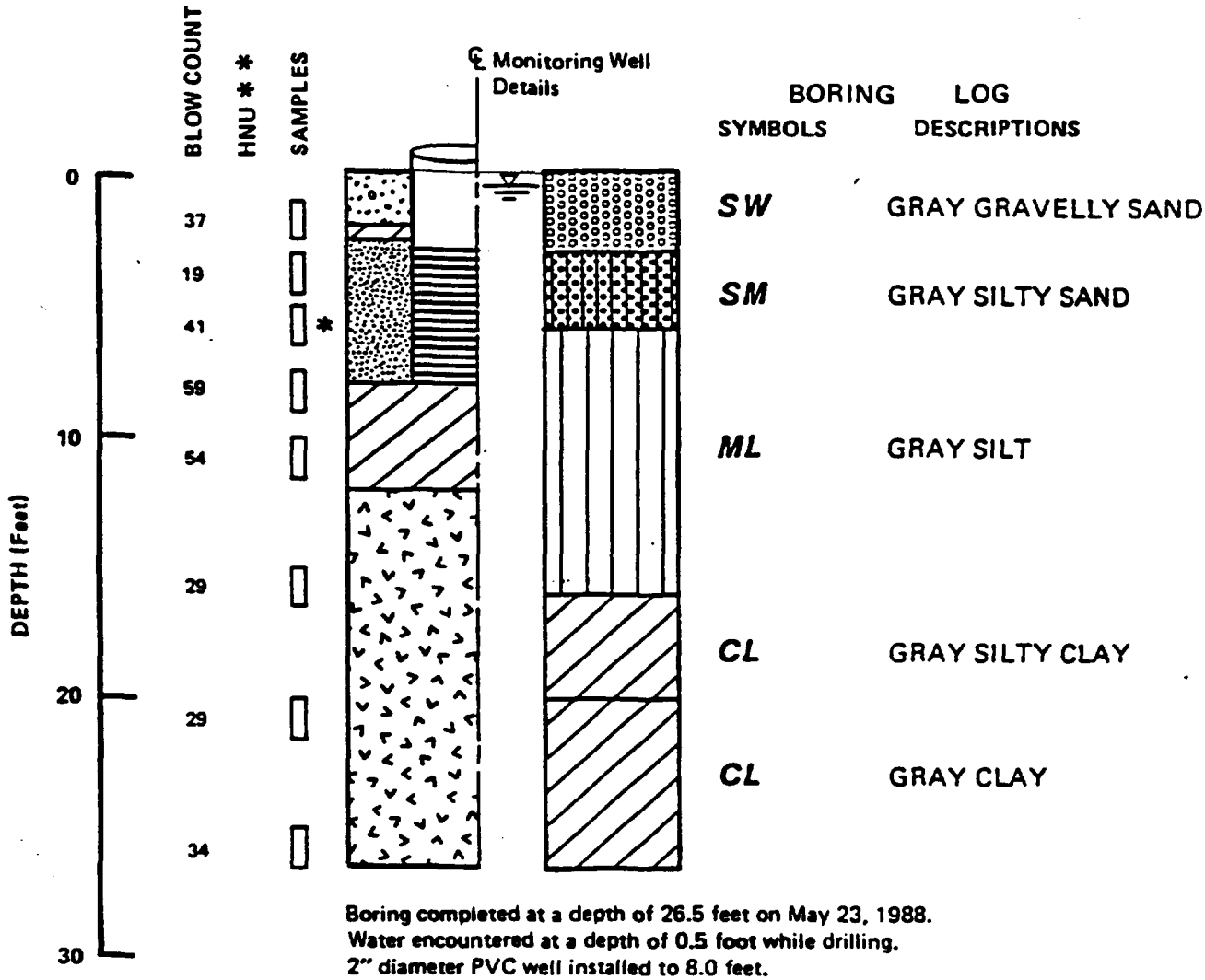
Logs generated by Harza from field notes provided by
Denali Drilling, Inc. and James M. Montgomery, Consulting Engineers, Inc.

HES HARZA ENVIRONMENTAL SERVICES, INC.

September 1988

PRIORITY 3: KNIK ARM LANDFILL
BORING K304

ELMENDORF AIR FORCE BASE
Anchorage, Alaska



Boring completed at a depth of 26.5 feet on May 23, 1988.
Water encountered at a depth of 0.5 foot while drilling.
2" diameter PVC well installed to 8.0 feet.
Elevation of top of casing is 19.42 feet.

* Soil Sample Collected for Analysis

* * No HNU Readings Recorded on Field Log

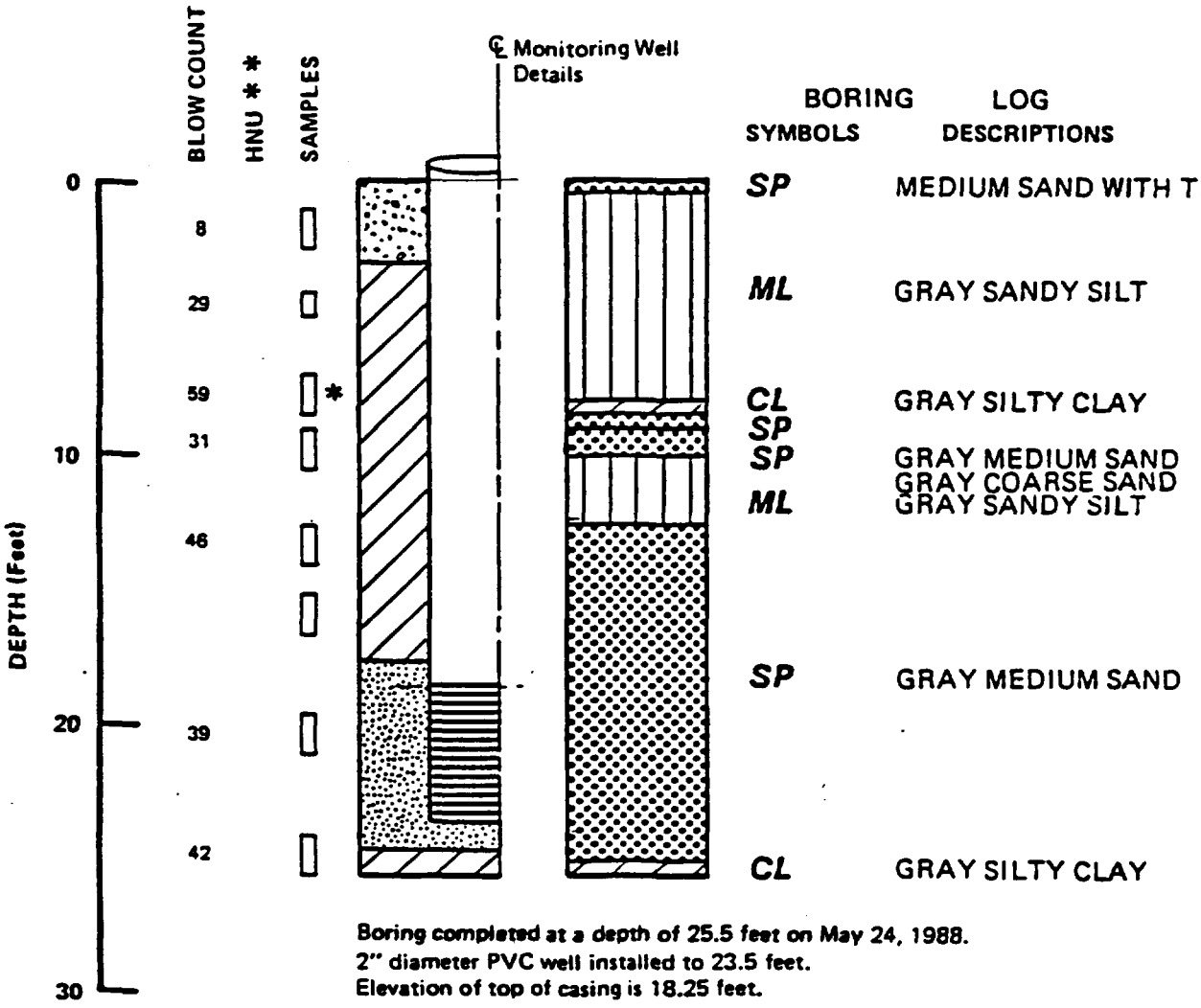
Backfilled with cuttings.

Logs generated by Harza from field notes provided by
Denali Drilling, Inc. and James M. Montgomery, Consulting Engineers, Inc.

HARZA September 1988

PRIORITY 3: KNIK ARM LANDFILL
BORING K306

ELMENDORF AIR FORCE
Anchorage, Alaska



Boring completed at a depth of 25.5 feet on May 24, 1988.
2" diameter PVC well installed to 23.5 feet.
Elevation of top of casing is 18.25 feet.

* Soil Sample Collected for Analysis

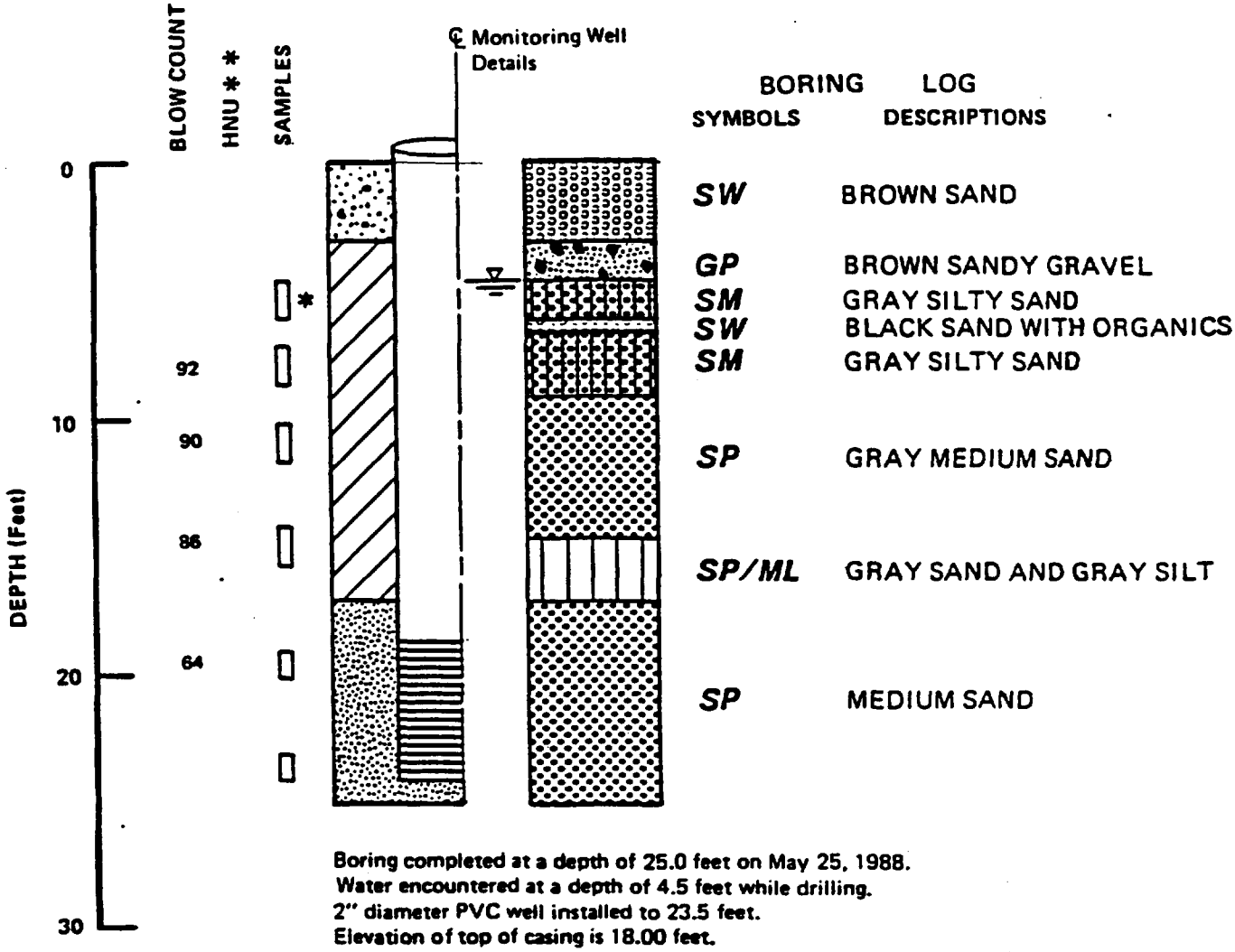
* * No HNU Readings Recorded on Field Log

Logs generated by Harza from field notes provided by Denali Drilling, Inc. and James M. Montgomery, Consulting Engineers, Inc.

HARZA September 1988

PRIORITY 3: KNIK ARM LANDFILL
BORING K308

ELMENDORF AIR FORCE BASE
Anchorage, Alaska



Boring completed at a depth of 25.0 feet on May 25, 1988.
Water encountered at a depth of 4.5 feet while drilling.
2" diameter PVC well installed to 23.5 feet.
Elevation of top of casing is 18.00 feet.

* Soil Sample Collected for Analysis

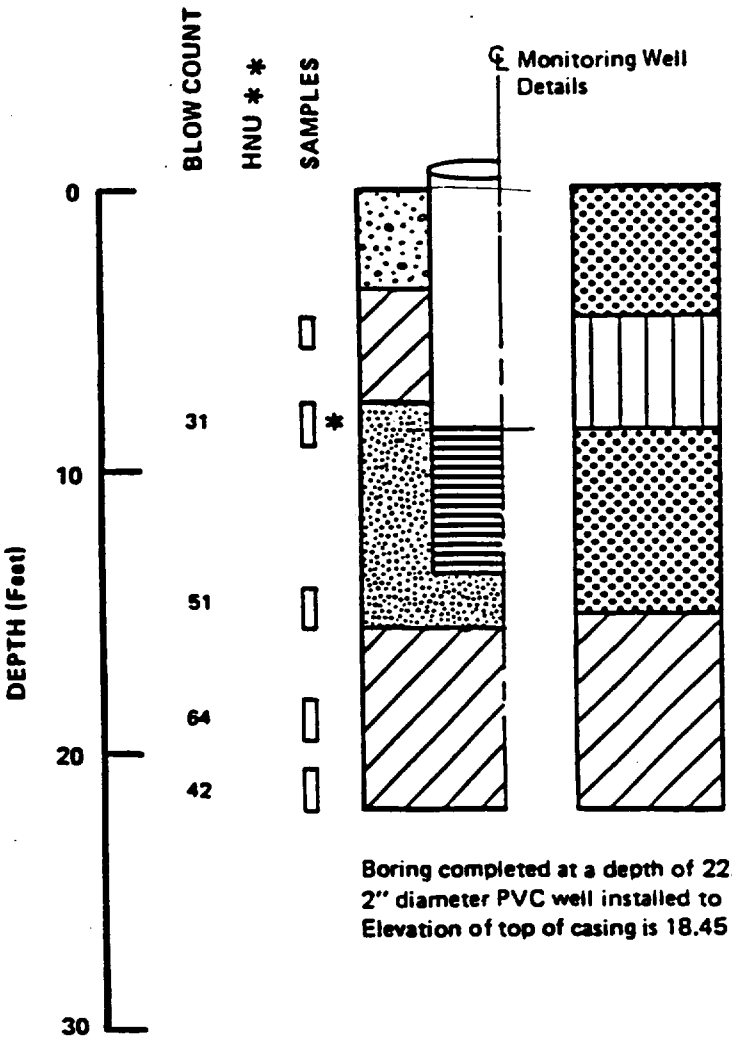
* * No HNU Readings Recorded on Field Log

PRIORITY 3: KNIK ARM LANDFILL
BORING K309

ELMENDORF AIR FORCE BASE
Anchorage, Alaska

Logs generated by Harza from field notes provided by
Denali Drilling, Inc. and James M. Montgomery, Consulting Engineers, Inc.

HES HARZA ENVIRONMENTAL SERVICES, INC. September 1988



BORING LOG SYMBOLS / DESCRIPTIONS

SP	GRAY BROWN SAND WITH SOME GRAVEL
ML/CL	GRAY CLAYEY SILT
SP	GRAY FINE – MEDIUM SAND
CL/SP	INTERBEDDED SILTY CLAY, FINE SAND AND CLAYEY SILT

Boring completed at a depth of 22.0 feet on May 26, 1988.
2" diameter PVC well installed to 13.5 feet.
Elevation of top of casing is 18.45 feet.

* Soil Sample Collected for Analysis

* * No HNU Readings Recorded on Field Log

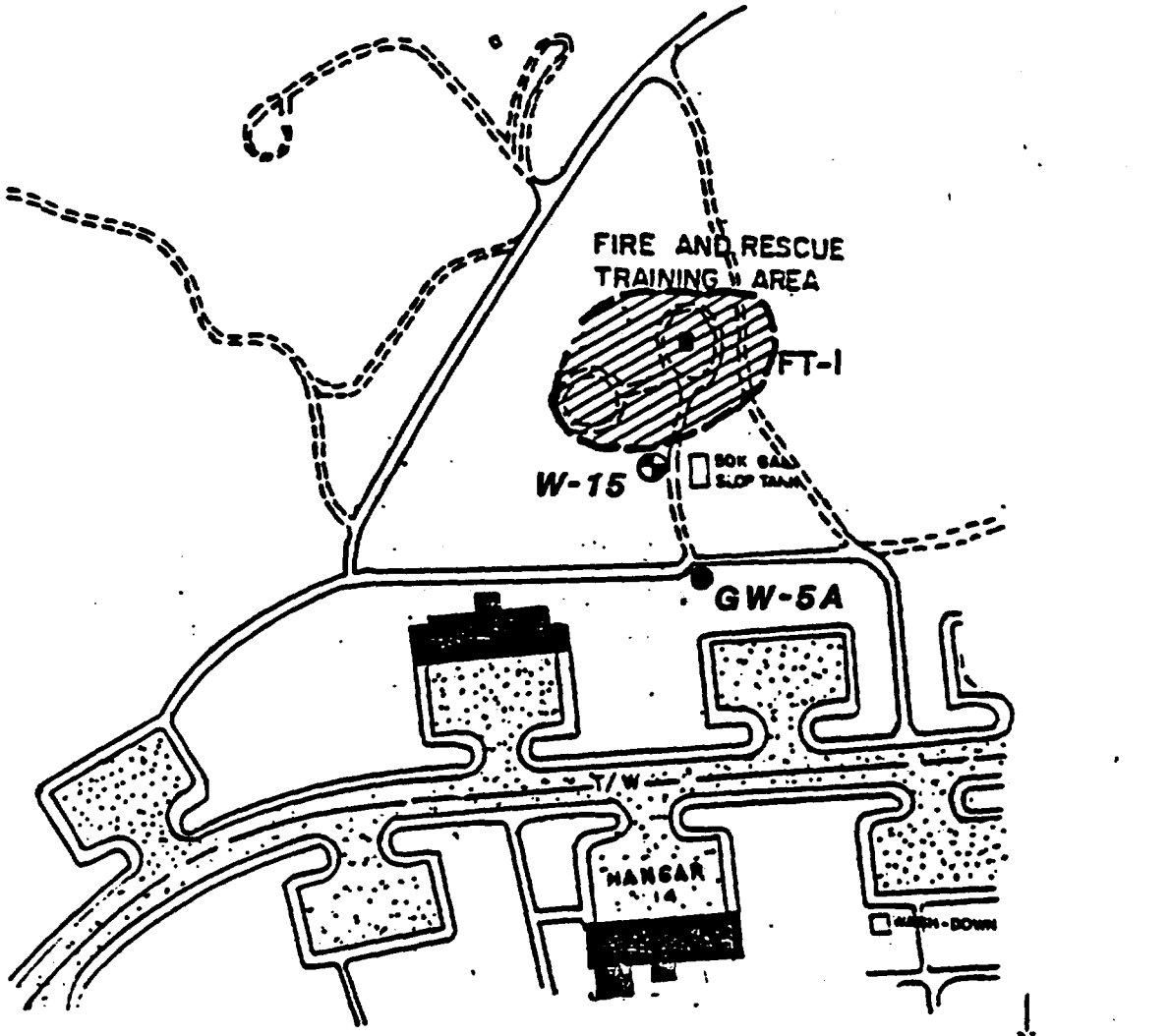
PRIORITY 3: KNIK ARM LANDFILL
BORING K310

ELMENDORF AIR FORCE BASE
Anchorage, Alaska

Logs generated by Harza from field notes provided by
Denali Drilling, Inc. and James M. Montgomery, Consulting Engineers, Inc.

HES HARZA ENVIRONMENTAL SERVICES INC.

September 1988



LEGEND:

GW-5 ● MONITOR WELL LOCATION AND NUMBER, PHASE II, STAGE 2.

⊕ MONITOR WELL LOCATION AND NUMBER, PHASE II, STAGE 1.

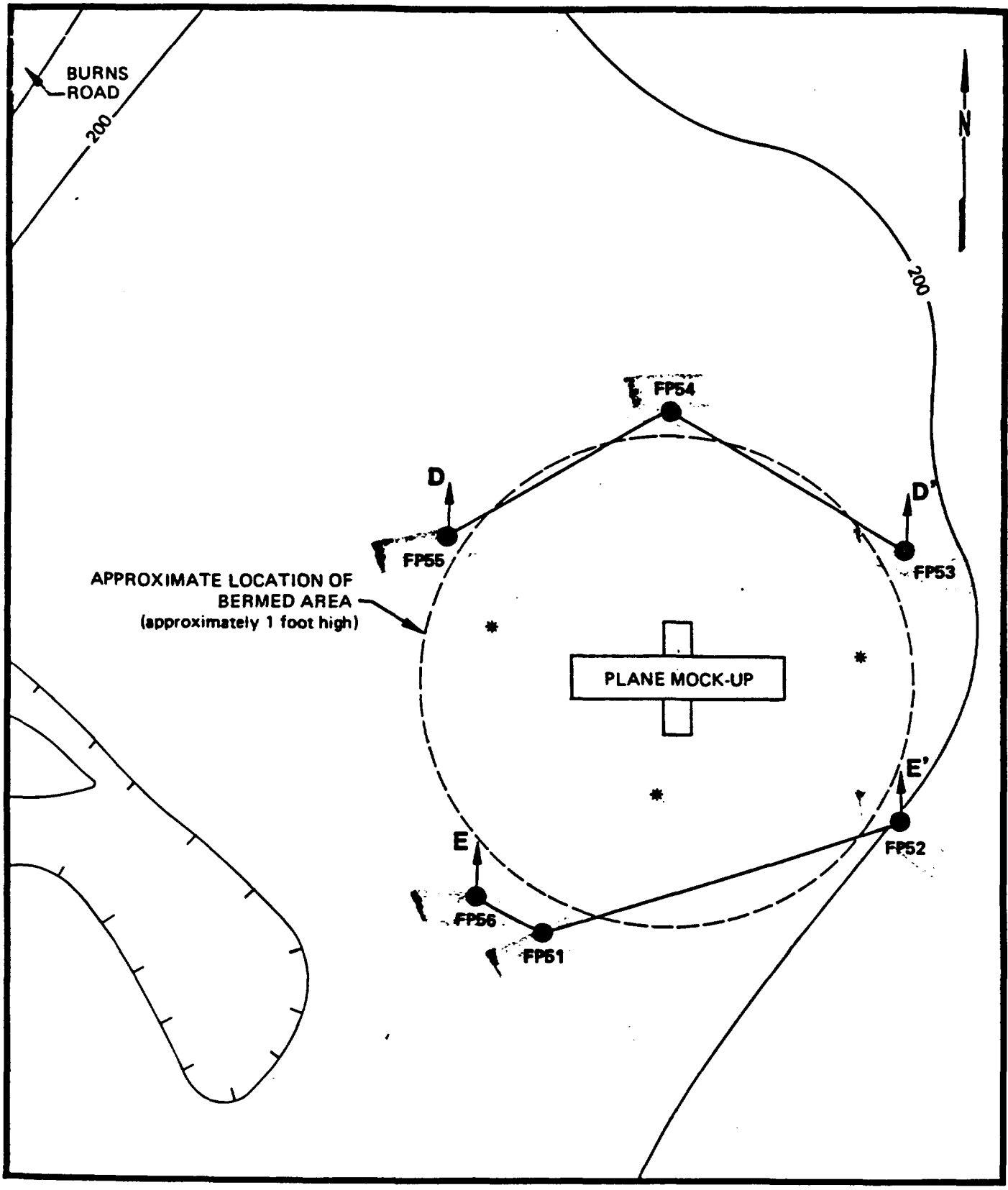
D-5 SITE LOCATION AND NUMBER

SITE FT-1, FIRE TRAINING AREA, MONITOR WELL W-15 AND GW-5A

SOURCE; ADAPTED FROM MASTER PLAN LIQUID FUEL SYSTEM-ELMENDORF AIR FORCE BASE, ANCHORAGE ALASKA, DRG C-7 SHEETS 3 & 4, DATED 1966.

Dames & Moore

PLATE 13



Geologic Cross Section D–D' and E-E' Shown on Drawing 4

* 3 Point Composite Soil Sample FP-15

SCALE 100 0 100 Feet

Figure 1

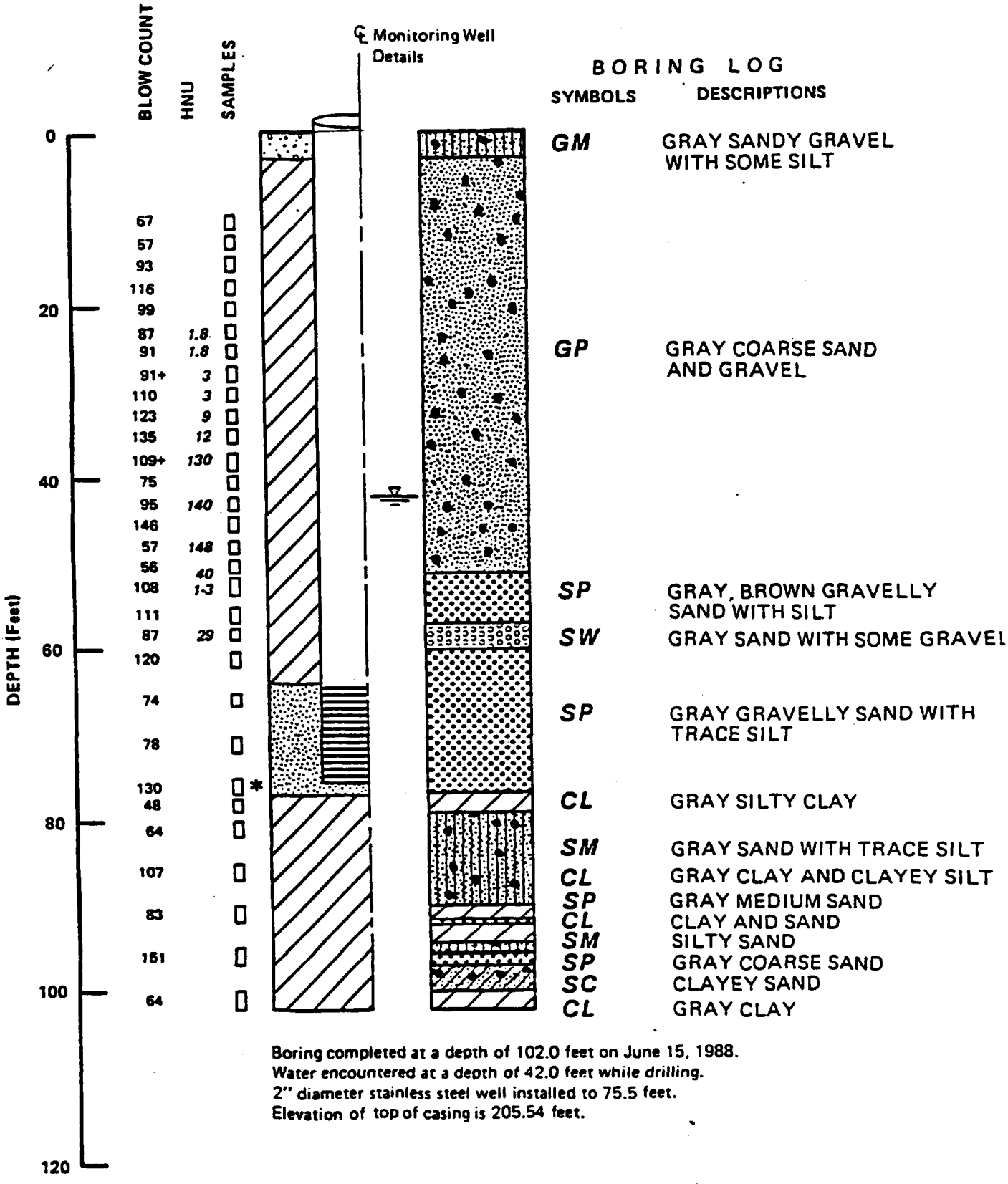
PRIORITY 5: FIRE PIT - WELL LOCATIONS

ELMENDORF AIR FORCE BASE
Anchorage, Alaska

September 1988

HES HARZA ENVIRONMENTAL SERVICES, INC.

FT23 OU



Boring completed at a depth of 102.0 feet on June 15, 1988.
Water encountered at a depth of 42.0 feet while drilling.
2" diameter stainless steel well installed to 75.5 feet.
Elevation of top of casing is 205.54 feet.

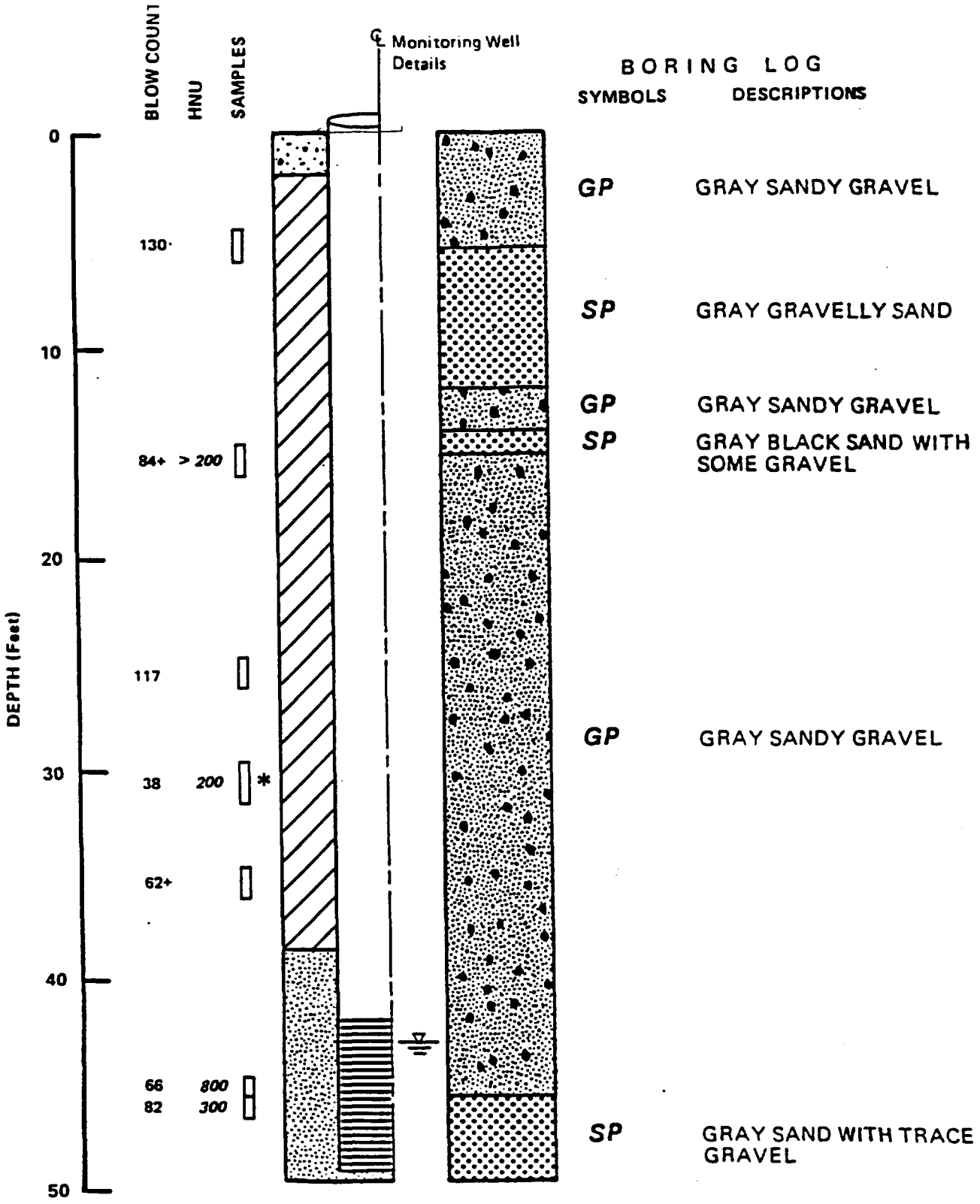
* Soil Sample Collected for Analysis

Logs generated by Harza from field notes provided by
Denali Drilling, Inc. and James M. Montgomery, Consulting Engineers, Inc.

HES HARZA ENVIRONMENTAL SERVICES INC. September 1988

PRIORITY 5: FIRE PIT AREA
BORING FP51

ELMENDORF AIR FORCE BASE
Anchorage, Alaska



Boring completed at a depth of 49.5 feet on June 17, 1988.
Water encountered at a depth of 43.0 feet while drilling.
4" diameter stainless steel well installed to 49.0 feet.
Elevation of top of casing is 206.01 feet.

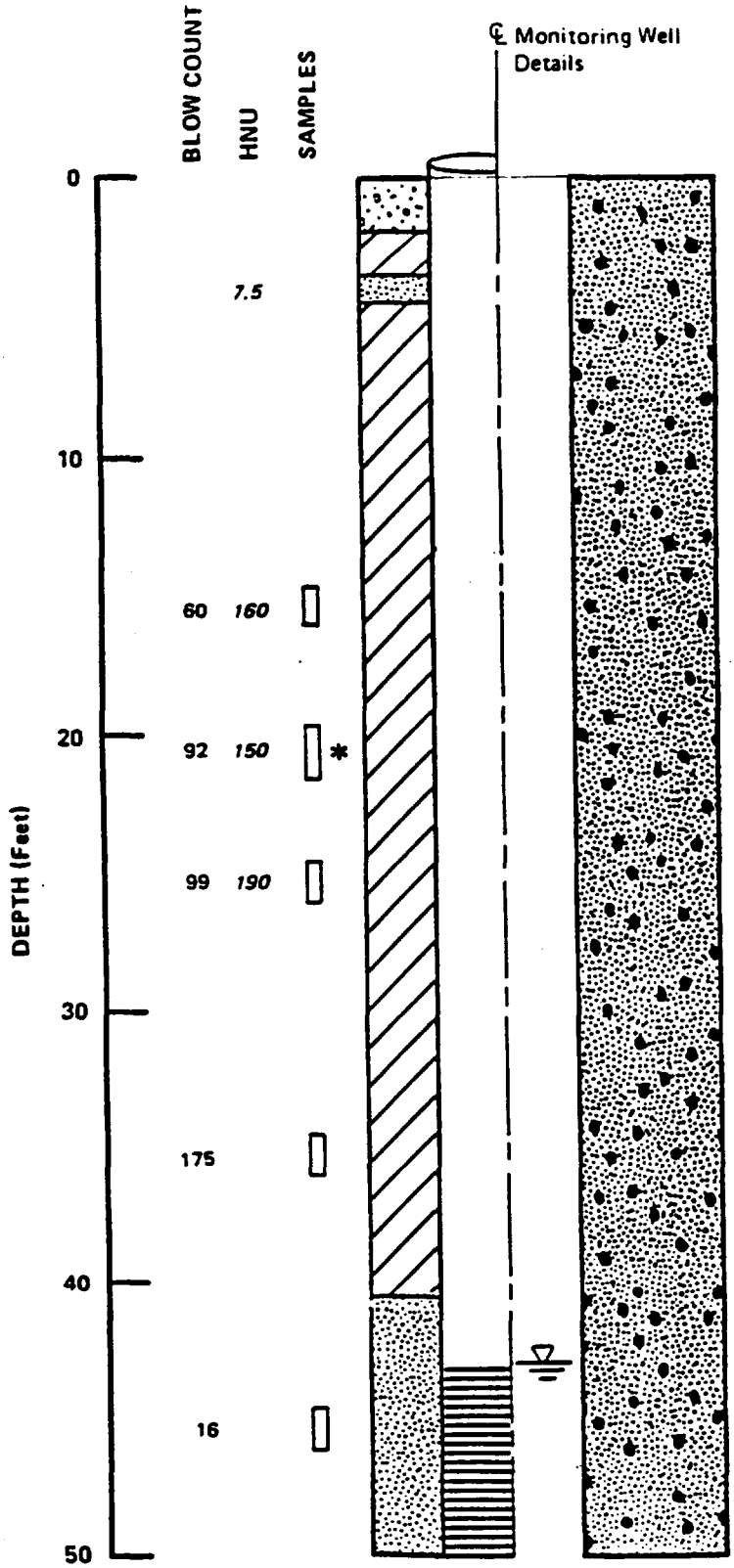
* Soil Sample Collected for Analysis

Logs generated by Harza from field notes provided by
Denali Drilling, Inc. and James M. Montgomery, Consulting Engineers, Inc.

HES HARZA ENVIRONMENTAL SERVICES INC. September 1988

PRIORITY 5: FIRE PIT AREA
BORING FP52

ELMENDORF AIR FORCE BASE
Anchorage, Alaska



BORING LOG

SYMBOLS	DESCRIPTIONS
GP	GRAY SANDY GRAVEL

Boring completed at a depth of 50.0 feet on June 21, 1988.
4" diameter stainless steel well installed to 50.0 feet.
Water encountered at a depth of 43.0 feet while drilling.
Elevation of top of casing is 205.41 feet.

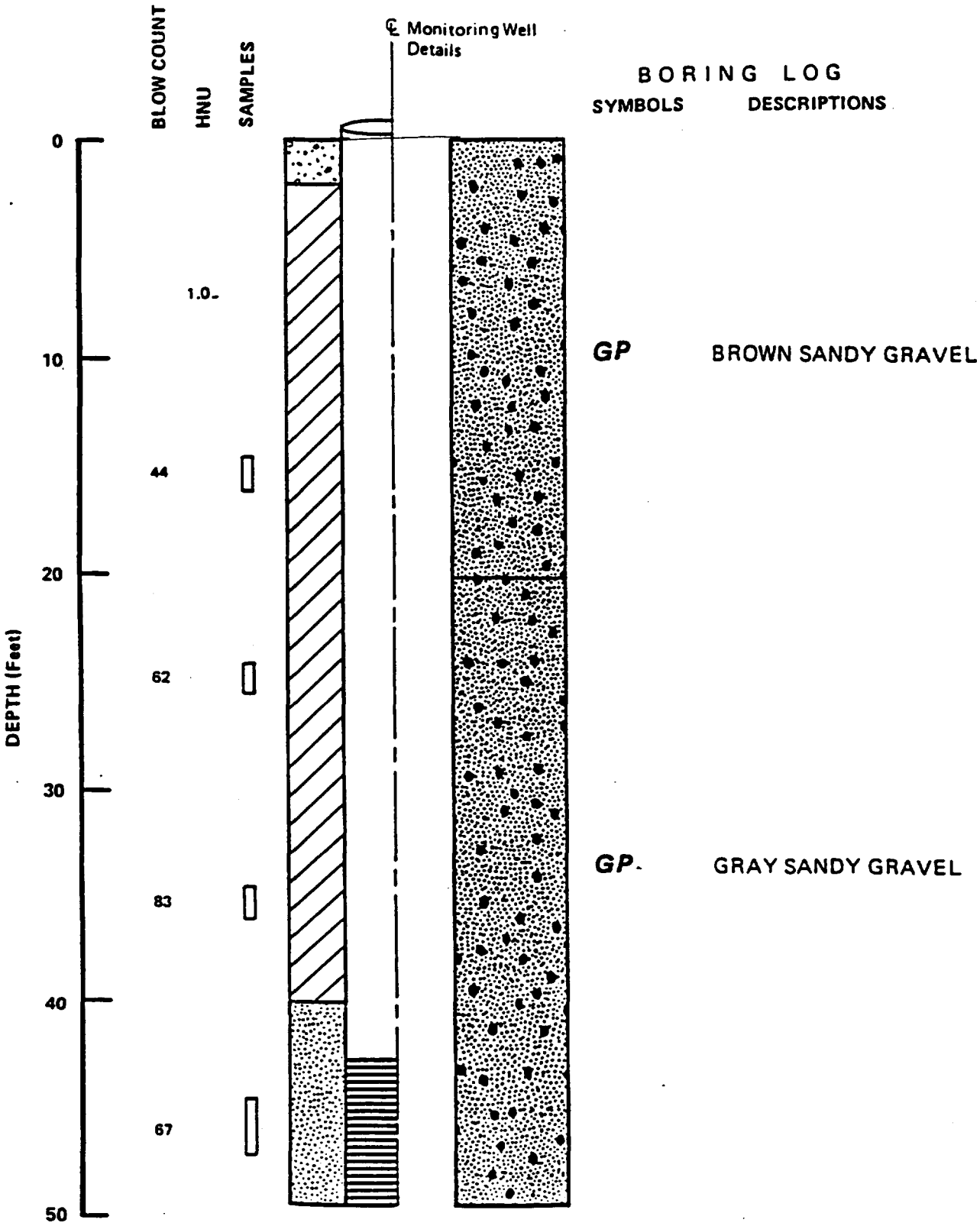
* Soil Sample Collected for Analysis

Logs generated by Harza from field notes provided by
Denali Drilling, Inc. and James M. Montgomery, Consulting Engineers, Inc.

HES HARZA ENVIRONMENTAL SERVICES INC. September 1988

PRIORITY 5: FIRE PIT AREA
BORING FP53

ELMENDORF AIR FORCE BASE
Anchorage, Alaska



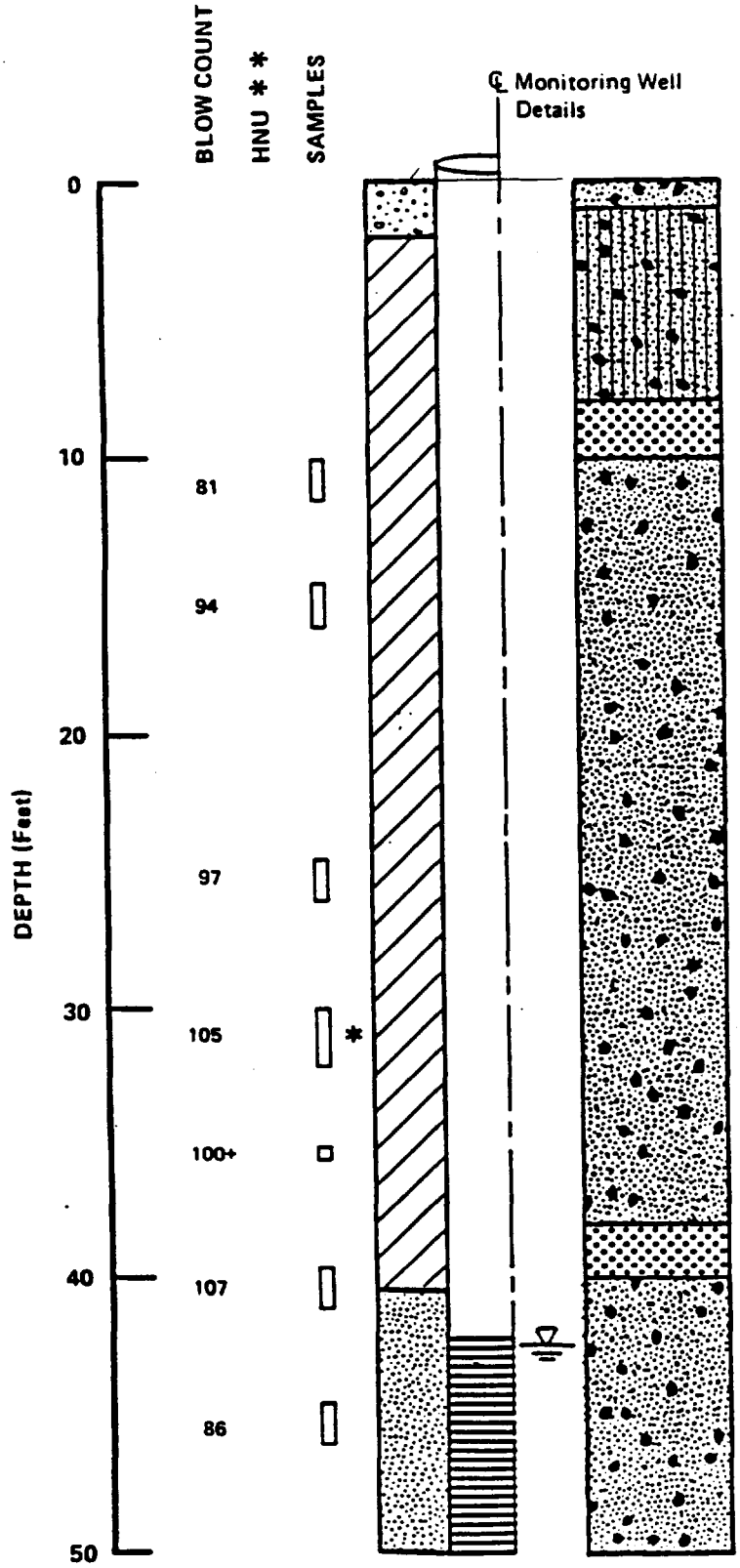
Boring completed at a depth of 49.5 feet on June 22, 1988.
4" diameter stainless steel well installed to 49.5 feet.
Elevation of top of casing is 206.40 feet.

Logs generated by Harza from field notes provided by
Denali Drilling, Inc. and James M. Montgomery, Consulting Engineers, Inc.

HES HARZA ENVIRONMENTAL SERVICES INC. September 1988

PRIORITY 5: FIRE PIT AREA
BORING FP54

ELMENDORF AIR FORCE BASE
Anchorage, Alaska



BORING LOG

SYMBOLS	DESCRIPTIONS
GP	BROWN SANDY GRAVEL
GM	GRAY SANDY GRAVEL WITH SOME SILT
SP	DARK GRAY GRAVELLY SAND WITH WOOD FRAGMENTS
GP	GRAY SANDY GRAVEL WITH A FEW COBBLES
SP	GRAY GRAVELLY SAND
GP	GRAY SANDY GRAVEL

Boring completed at a depth of 50.0 feet on June 23, 1988.
4" diameter stainless steel well installed to 49.5 feet.
Water encountered at a depth of 42.5 feet while drilling.
Elevation of top of casing is 205.28 feet.

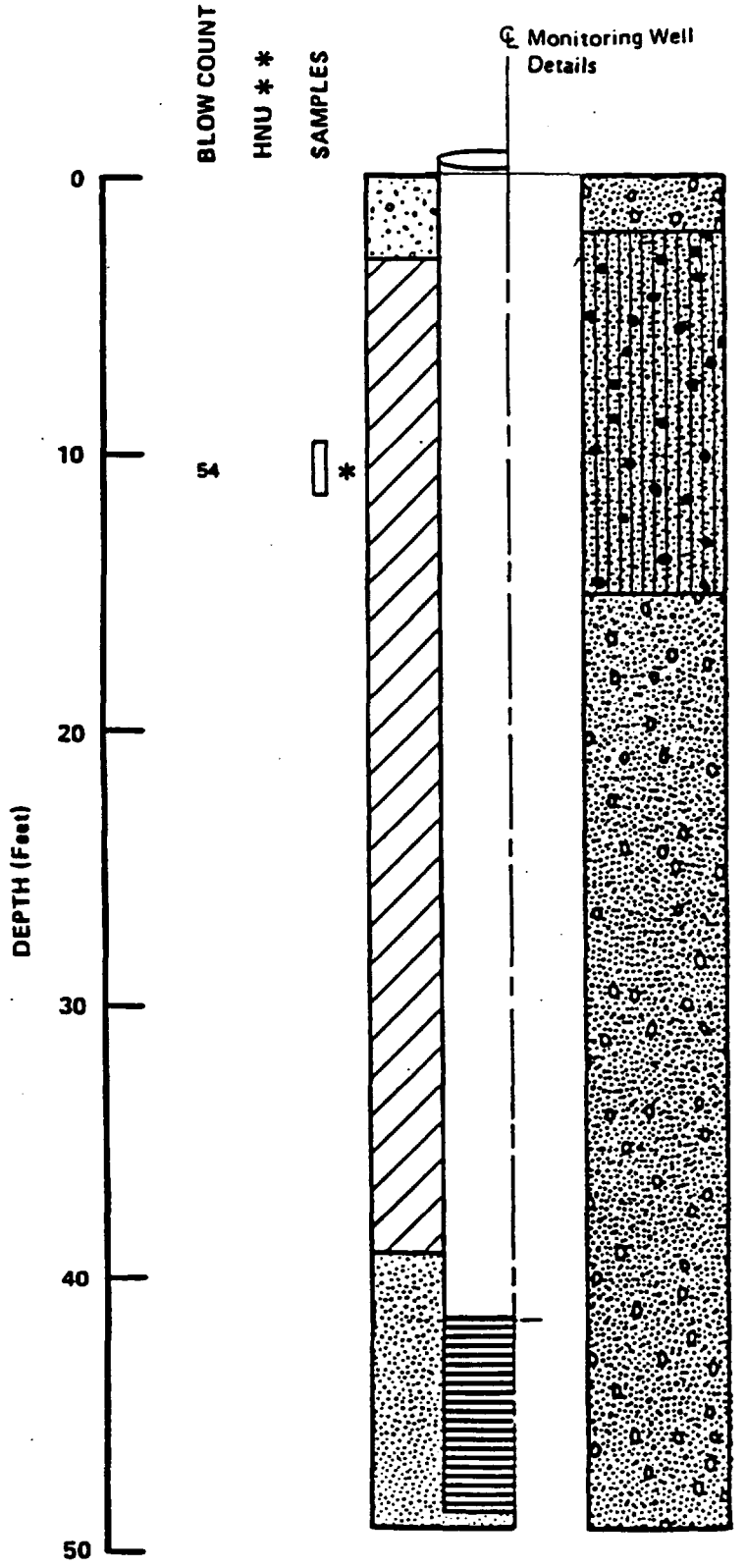
* Soil Sample Collected for Analysis
* * No HNU Readings Recorded on Field Log

Logs generated by Harza from field notes provided by
Denali Drilling, Inc. and James M. Montgomery, Consulting Engineers, Inc.

HES HARZA ENVIRONMENTAL SERVICES INC. September 1988

PRIORITY 5: FIRE PIT AREA
BORING FP55

ELMENDORF AIR FORCE BASE
Anchorage, Alaska



BORING LOG

SYMBOLS	DESCRIPTIONS
GW	GRAY SANDY GRAVEL
GM	GRAY SANDY GRAVEL WITH TRACE SILT
GW	GRAY SANDY GRAVEL WITH A FEW COBBLES

Boring completed at a depth of 49.0 feet on June 27, 1988.
4" diameter stainless steel well installed to 48.5 feet.
Elevation of top of casing is 204.71 feet.
Boring FP56 adjacent to FP51. See log of FP51 for detailed log.

* Soil Sample Collected for Analysis
* * No HNU Readings Recorded on Field Log

Logs generated by Harza from field notes provided by
Denali Drilling, Inc. and James M. Montgomery, Consulting Engineers, Inc.

HES HARZA ENVIRONMENTAL SERVICES INC. September 1988

PRIORITY 5: FIRE PIT AREA
BORING FP56

ELMENDORF AIR FORCE BASE
Anchorage, Alaska

MONITOR WELL INFORMATION SHEET

GROUND SURFACE ELEVATION 204.3

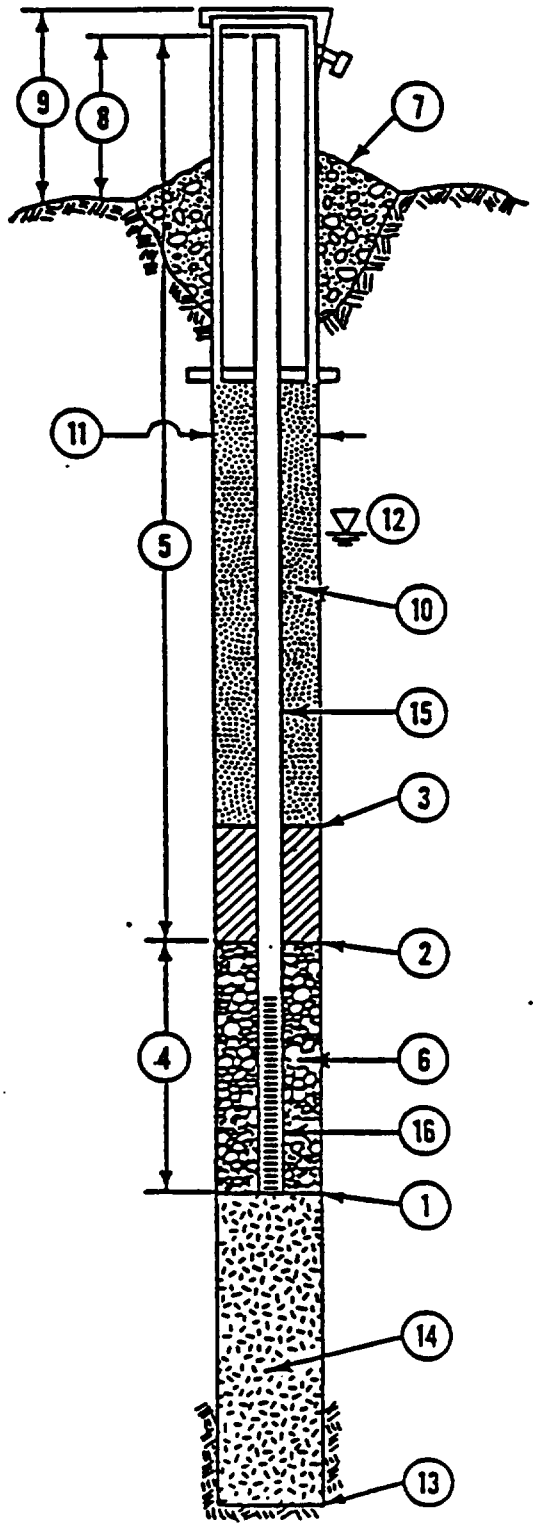
TOP OF WELL CASING ELEVATION 206.21

JOB NUMBER 1016-265

BORING NUMBER GW5-A

DATE 9/14/86

LOCATION Elmendorf AFB



1. DEPTH TO BOTTOM OF WELL POINT OR SLOTTED PIPE 50.0 FEET.*
2. DEPTH TO BOTTOM OF SEAL (IF INSTALLED) 40.0 FEET.*
3. DEPTH TO TOP OF SEAL (IF INSTALLED) 38.0 FEET.*
4. LENGTH OF WELL SCREEN 10 FEET. SLOT SIZE 0.010.
5. TOTAL LENGTH OF PIPE 52.01 FEET AT 2 INCH DIAMETER.
6. TYPE OF PACK AROUND WELL POINT OR SLOTTED PIPE Sand.
7. CONCRETE CAP. (YES) NO (CIRCLE ONE)
8. HEIGHT OF WELL CASING ABOVE GROUND 2.01 FEET.
9. PROTECTIVE CASING? (YES) NO (CIRCLE ONE) HEIGHT ABOVE GROUND 2.13 FEET. LOCKING CAP? (YES) NO (CIRCLE ONE)
10. TYPE OF UPPER BACKFILL Cement-bentonite grout
11. BOREHOLE DIAMETER 8 INCHES.
12. DEPTH TO GROUND WATER 45.0 FEET.*
13. TOTAL DEPTH OF BOREHOLE 50.0 FEET.*
14. TYPE OF LOWER BACKFILL —.
15. PIPE MATERIAL PVC.
16. SCREEN MATERIAL PVC.

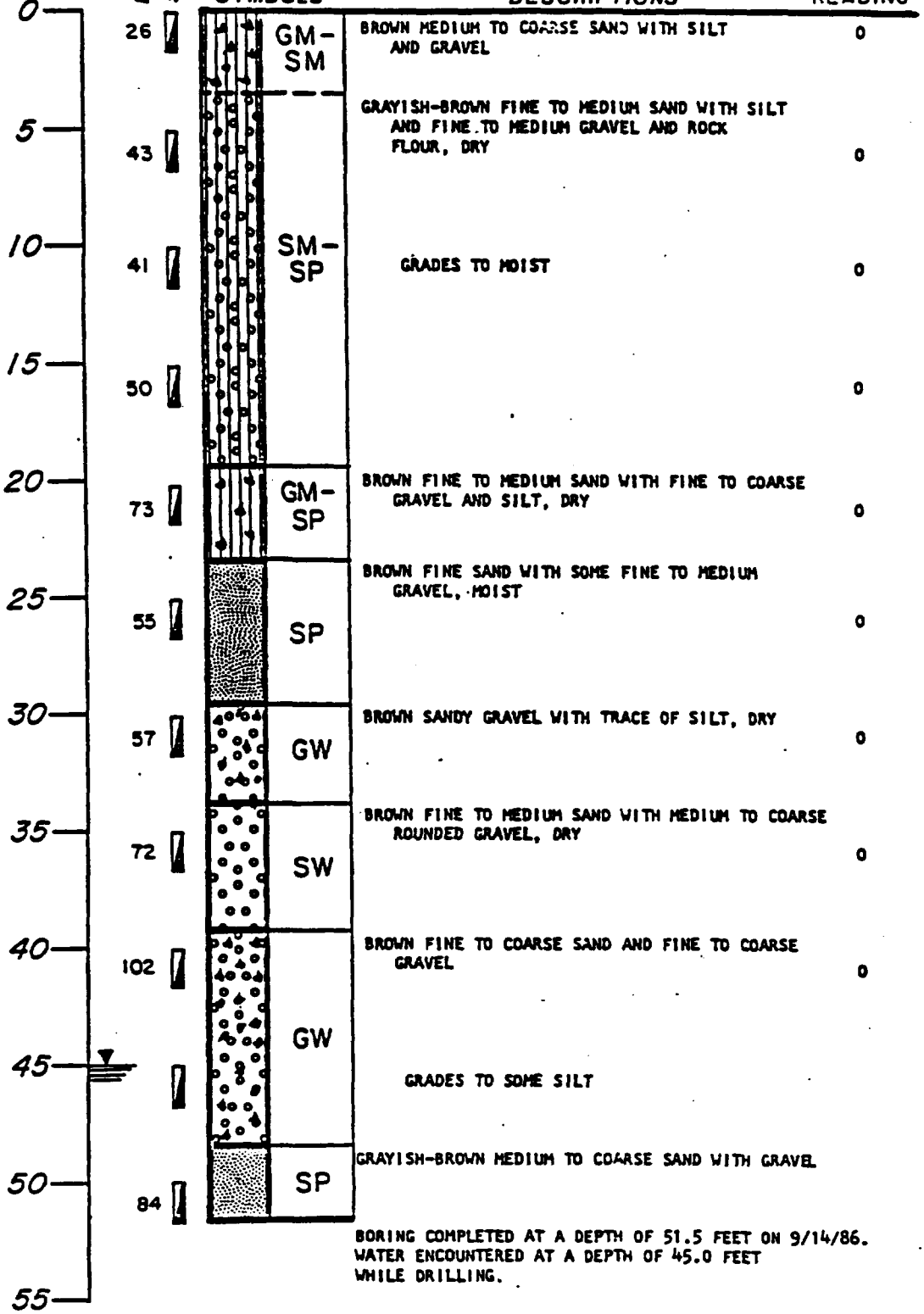
*(DEPTH FROM GROUND SURFACE)

MONITOR WELL INSTALLATION DETAILS

Dames & Moore

BORING GW-5A

SURFACE ELEVATION 204.20



SYMBOLS	DESCRIPTIONS	HNU READING
GM-SM	BROWN MEDIUM TO COARSE SAND WITH SILT AND GRAVEL	0
SM-SP	GRAYISH-BROWN FINE TO MEDIUM SAND WITH SILT AND FINE TO MEDIUM GRAVEL AND ROCK FLOUR, DRY	0
	GRADES TO MOIST	0
		0
GM-SP	BROWN FINE TO MEDIUM SAND WITH FINE TO COARSE GRAVEL AND SILT, DRY	0
SP	BROWN FINE SAND WITH SOME FINE TO MEDIUM GRAVEL, MOIST	0
GW	BROWN SANDY GRAVEL WITH TRACE OF SILT, DRY	0
SW	BROWN FINE TO MEDIUM SAND WITH MEDIUM TO COARSE ROUNDED GRAVEL, DRY	0
GW	BROWN FINE TO COARSE SAND AND FINE TO COARSE GRAVEL	0
	GRADES TO SOME SILT	
SP	GRAYISH-BROWN MEDIUM TO COARSE SAND WITH GRAVEL	

BORING COMPLETED AT A DEPTH OF 51.5 FEET ON 9/14/86.
WATER ENCOUNTERED AT A DEPTH OF 45.0 FEET
WHILE DRILLING.

LOG OF BORING

PLATE D-10

PIEZOMETER DETAIL INFORMATION SHEET

GROUND SURFACE ELEVATION _____

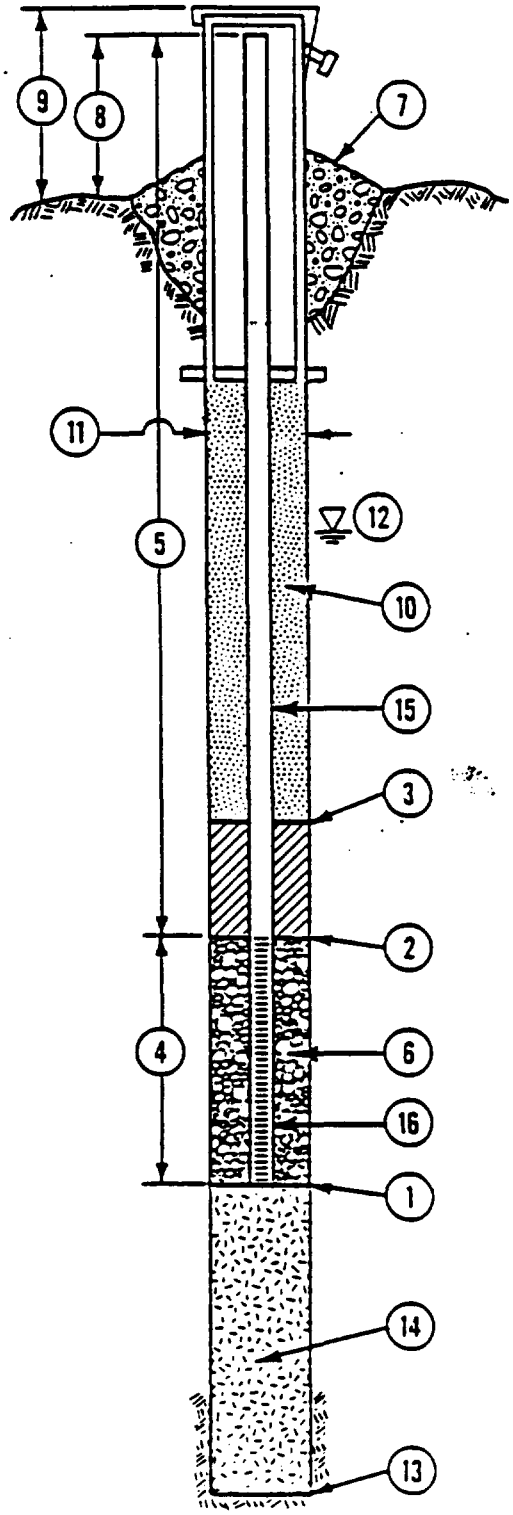
TOP OF WELL CASING ELEVATION _____

JOB NUMBER 1016-200-24

BORING NUMBER W-15

DATE 6/12/84

LOCATION Elmendorf AFB



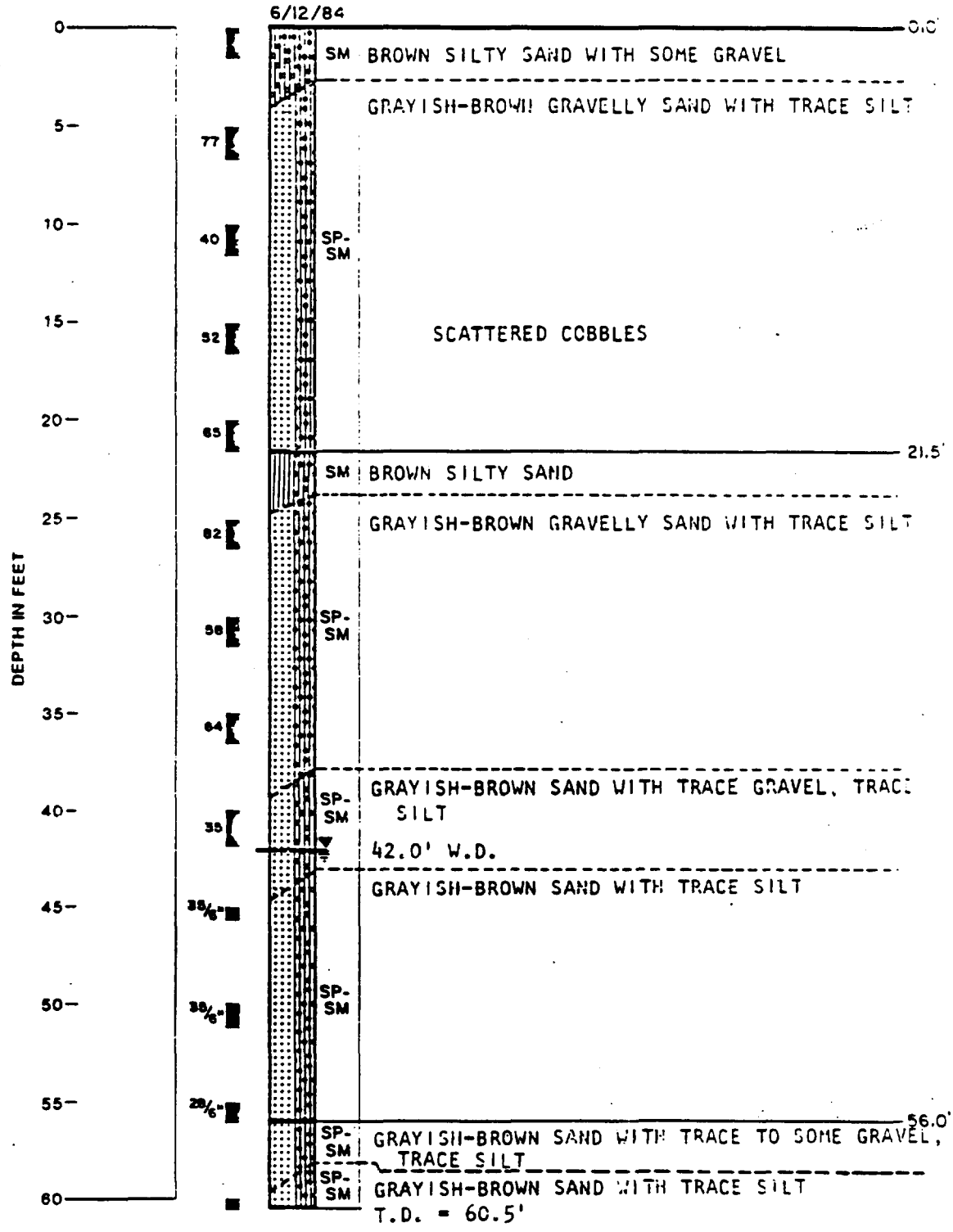
1. DEPTH TO BOTTOM OF WELL POINT OR SLOTTED PIPE 60 FEET. *
2. DEPTH TO BOTTOM OF SEAL (IF INSTALLED) 35 FEET. *
3. DEPTH TO TOP OF SEAL (IF INSTALLED) 30 FEET. *
4. LENGTH OF WELL SCREEN 25 FEET. SLOT SIZE .01 .
5. TOTAL LENGTH OF PIPE 31 FEET AT 2 INCH DIAMETER.
6. TYPE OF PACK AROUND WELL POINT OR SLOTTED PIPE natural sand
7. CONCRETE CAP. (YES) NO (CIRCLE ONE)
8. HEIGHT OF WELL CASING ABOVE GROUND 1 FEET.
9. PROTECTIVE CASING? (YES) NO (CIRCLE ONE) HEIGHT ABOVE GROUND 4.2 FEET. LOCKING CAP? (YES) NO (CIRCLE ONE)
10. TYPE OF UPPER BACKFILL cement
11. BOREHOLE DIAMETER 8 INCHES.
12. DEPTH TO GROUND WATER 42 FEET. *
13. TOTAL DEPTH OF BOREHOLE 60 FEET. *
14. TYPE OF LOWER BACKFILL none.
15. PIPE MATERIAL PVC - Sched - 40
16. SCREEN MATERIAL PVC - Sched-40

*(DEPTH FROM GROUND SURFACE)

PIEZOMETER INSTALLATION DETAILS

Dames & Moore

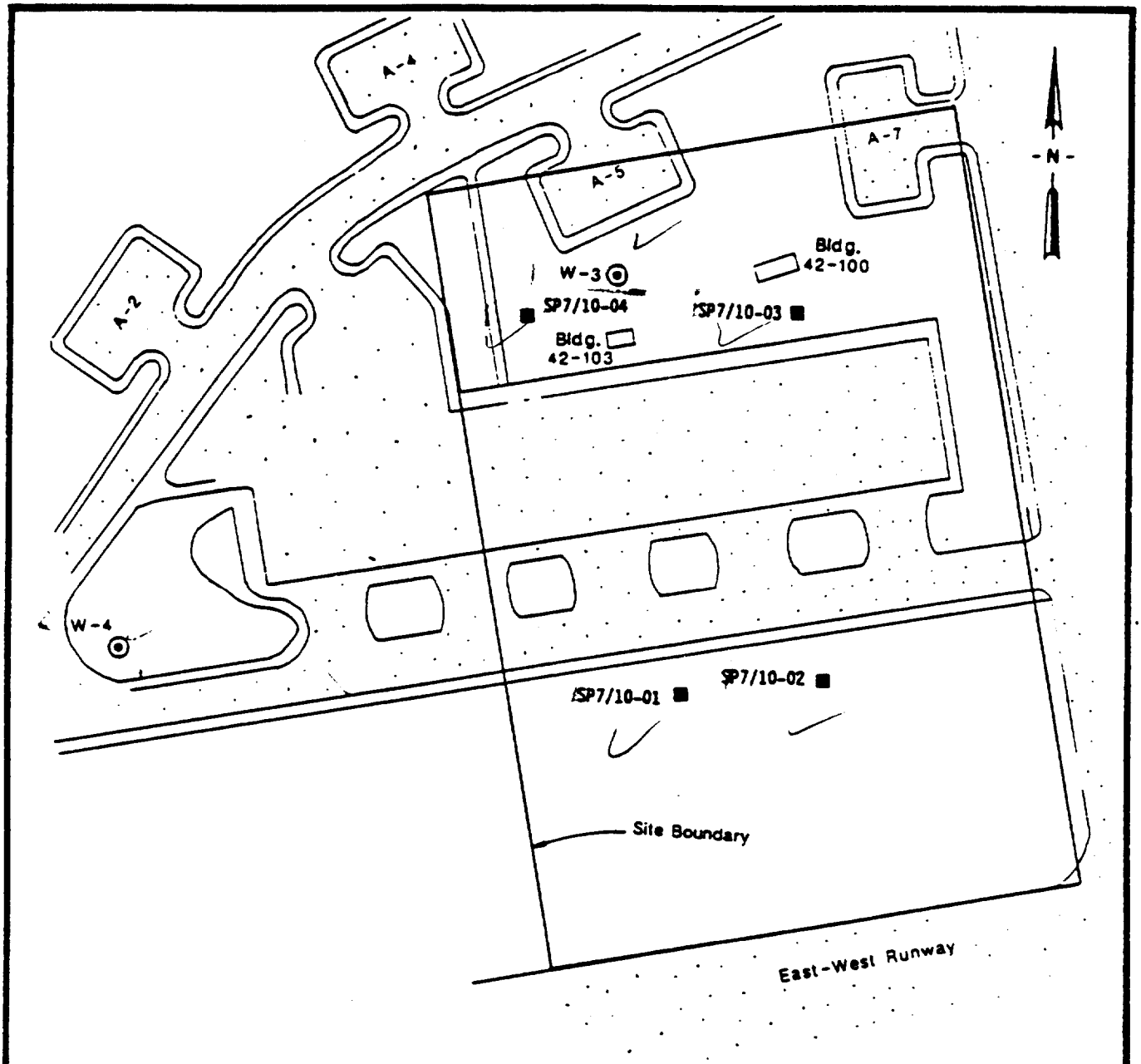
ELMENDORF AFB
BORING W-15



LOG OF BORING

Dames & Moore

PLATE C-19



Legend:

W-3 ◉ Monitoring Well Location, Phase II, Stage 1

SP7/10-01 ■ Monitoring Well Location Stage 3

0 200 400ft

Scale

LOCATION MAP
SITE SP-7/10

IRP Stage 3 RI/FS
Elmendorf AFB, AK

Figure
4.2.13.1

5542/55

POL Sp
Sarre

WELL COMPLETION INFORMATION

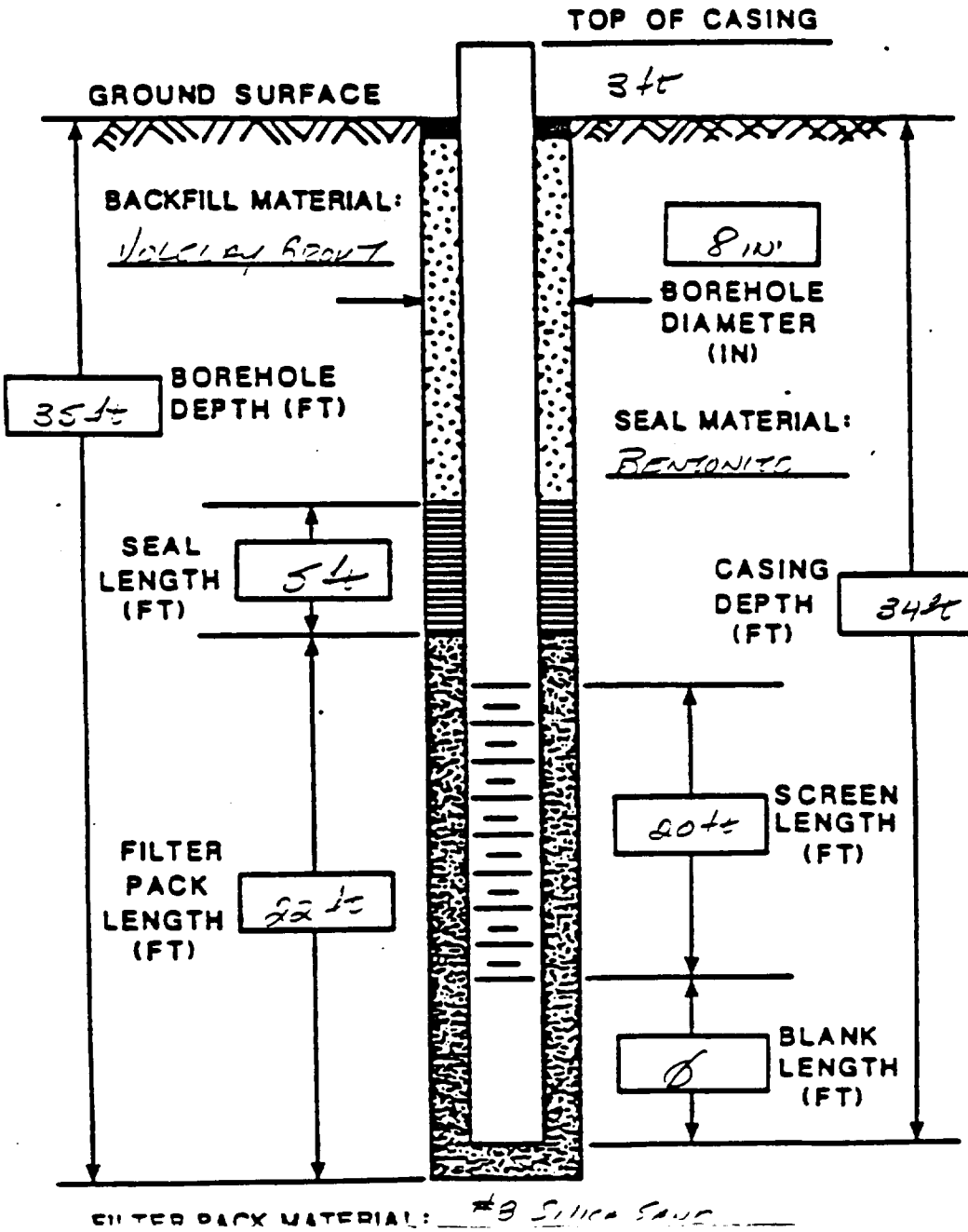
INSTALLATION ID Elmendorf AFB
LOCATION ID SP7/8-01 (~~884~~) (484)
WELL OWNER _____
WELL TYPE CLASS MNW
FORMATION OF COMPLETION SAND/GRAVEL

LOCATION TYPE WL
INSTALLATION DATE 7/26/00
INSTALLER ESI
WELL COMPLETION METHOD S
ZONE OF COMPLETION 34' TO 14'

SEAL END DEPTH (FT) _____
MEAS. POINT ELEV. (FT MSL) _____
CASING DEPTH (FT) 34
CASING DIAMETER (IN) 2
CASING MATERIAL PVC

FILTER PACK LENGTH (FT) 22±
SCREEN BEGIN. DEPTH (FT) 24±
SCREEN LENGTH (FT) 20±
SCREEN SLOT SIZE (IN) 0.010

REMARKS _____



WELL TYPE CLASSIFICATIONS (WTCCODE)
- MNW - MONITORING WELL
- PRW - PRODUCTION WELL
- TST - TEST WELL
- WSW - WATER SUPPLY WELL

CASING MATERIAL (CMACODE)
- ABS - ABS
- BRK - BRICK
- CBS - CARBON STEEL
- CNC - CONCRETE
- COP - COPPER
- FBG - FIBERGLASS
- GLS - GALVANIZED STEEL
- WRI - WROUGHT IRON
- SLS - STAINLESS STEEL
- LCS - LOW CARBON STEEL
- M - OTHER METAL
- TFL - TEFLON
- PLY - POLYPROPYLENE
- PVC - PVC
- RST - ROCK OR STONE
- STL - STEEL
- TIL - TILE
- COS - COATED STEEL
- WD - WOOD

ZONE OF COMPLETION (GZCCODE)
- A - AQUIFER
- C - CONFINING LAYER

WELL COMPLETION METHODS: (WCMCODE)
- C - POROUS CONCRETE
- GP - GRAVEL PACK W/PERF
- GS - GRAVEL PACK W/SCI
- H - HORIZONTAL GALLERY
- OE - OPEN END
- P - PERFORATED OR SLOTTE
- S - SCREEN
- SP - SAND POINT
- W - WALLED OR SHORED
- OP - OPEN

BOREHOLE LOG (SOIL)

INSTALLATION ID ELMENDORF AFB — LOCATION ID SP/10-01
LOCATION TYPE BH — LOCATION PROXIMITY I ~~084~~ 184
COORDINATES (FT): NORTH _____ EAST _____
SURFACE ELEVATION (FTMSL) _____
DRILLER CODE DISC. — CONSTRUCTION METHOD HS
DATE STARTED 7/26/88 — DATE COMPLETED 7/26/88
BOREHOLE DEPTH (FT.) _____ — BOREHOLE DIAM. (IN) 12"

GROUNDWATER LEVELS		
DATE	TIME	DEPTH (FT)

LOCATION DESCRIPTION

MAP REFERENCE ID _____ LOCATION CROSS REFERENCE _____

LITHOLOGIC LOG — LOGGER CODE _____

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
2									CL	
4										CLAY - SOFT, MED. OLIVE-BROWN, NON PLASTIC, V. SILTY, SANDY W/
6		15"		U			.5ppm			GRAVELS of VARIOUS SIZES
8									CL	GRAVELS INCREASING
10									GC	GRAVEL - DENSE, VARIED COLORS, V. CLAYEY, SILTY, V. SANDY IN SPOTS
12		15"		U			7ppm .5ppm			TONES, SUB-ROUNDED, GRANULE TO COARSE PEBBLE SIZE, POORLY SORTED,
14										
16		15"		U	084 0001					∇ H_2O @ 15' ATD
18										
20									GC	
22		9"		U						
24										
26		13"		U					SP	SAND - DENSE, DK. BROWN, V. COARSE GRAINED, POORLY SORTED SUB-ROUNDED
27										CLAYEY W/ SOME GRANULE GRAVEL.
30										

LOCATION PROXIMITY (LPRCODE)
I - WITHIN INSTALLATION O - OUTSIDE INSTALLATION

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

CONSTRUCTION METHODS (CMCCODE)
- AR - AIR ROTARY
- B - BORED OR AUGERED
- C - CABLE-TOOL
- D - DUG
- HS - HOLLOW STEM AUGER
- J - JETTED
- P - AIR-PERCUSSION
- RM - REVERSE ROTARY, MUD
- T - TRENCHING
- V - DRIVEN
- W - DRIVE AND WASH

SAMPLE METHODS (SSMCODE)
- A - AUGER CUTTINGS
- S - 2" O.D. 1.38" I.D. DRIVE SAMPLE
- U - 3" O.D. 2.42" I.D. TUBE SAMPLE
- T - 3" O.D. THIN-WALLED SHELBY TUBE

BOREHOLE LOG (SOIL)

INSTALLATION ID ELMENDORF AFB
LOCATION ID SPT10-01 DATE STARTED 7/26/94

LITHOLOGIC LOG

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
32	4	NO REC.		4			N	N	SP	
34										
35										
										TD 35ft
										WELL SET @ 34ft

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

WELL COMPLETION INFORMATION

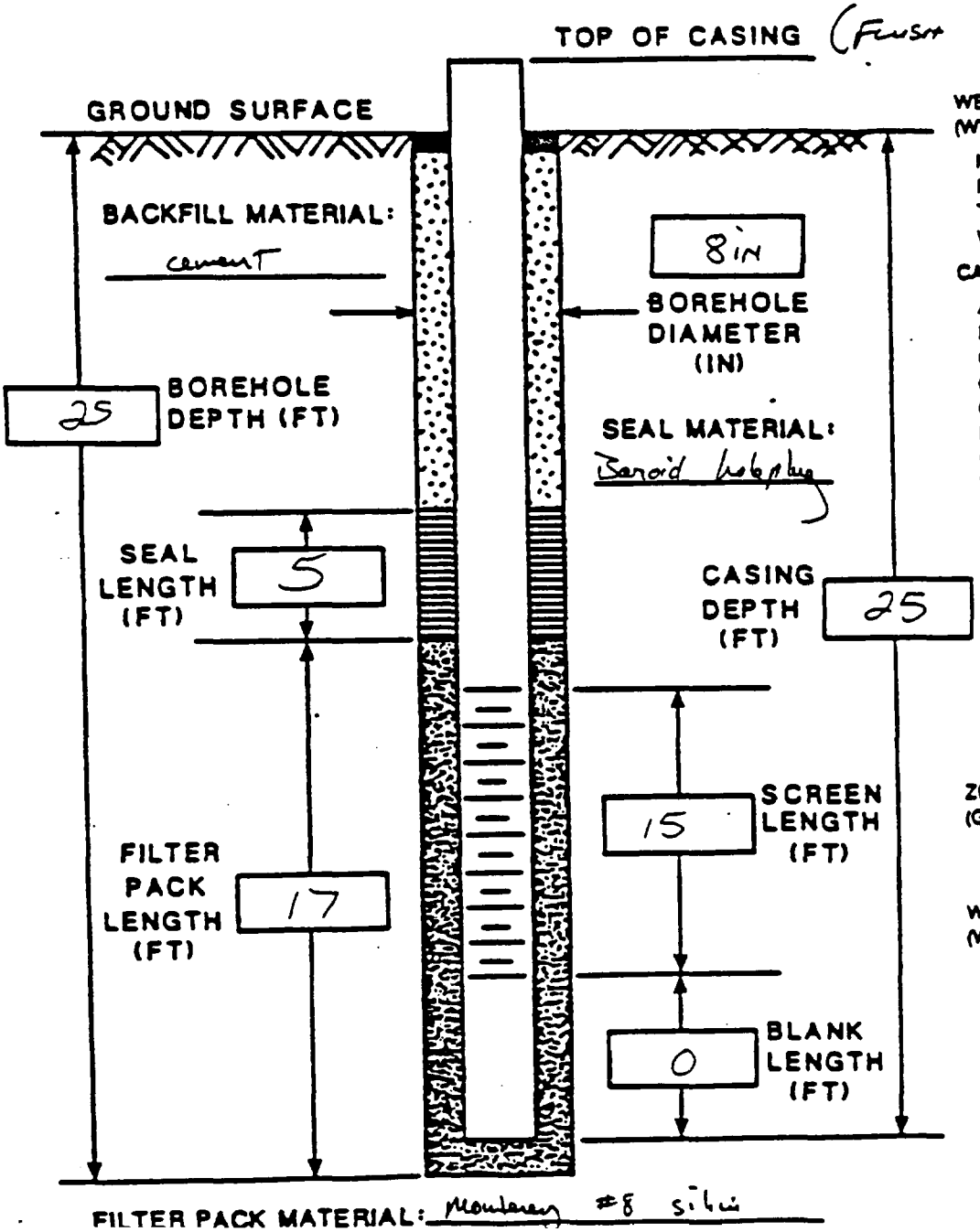
INSTALLATION ID Ecan 0687
LOCATION ID SP7/10-02085
WELL OWNER
WELL TYPE CLASS.
FORMATION OF COMPLETION Sand

LOCATION TYPE WL
INSTALLATION DATE 7/26/88
INSTALLER Dugan / Bou
WELL COMPLETION METHOD S
ZONE OF COMPLETION A

SEAL END DEPTH (FT) 3-8 ft
MEAS. POINT ELEV. (FTMSL) 165 ft
CASING DEPTH (FT) 25 ft
CASING DIAMETER (IN) 2 in ID
CASING MATERIAL PVC

FILTER PACK LENGTH (FT) 17 ft
SCREEN BEGIN. DEPTH (FT) 10
SCREEN LENGTH (FT) 15
SCREEN SLOT SIZE (IN) .02 in

REMARKS 2 in ID monitoring well



WELL TYPE CLASSIFICATIONS (WTCODE)
- MNW - MONITORING WELL
- PRW - PRODUCTION WELL
- TST - TEST WELL
- WSW - WATER SUPPLY WELL

CASING MATERIAL (CMACODE)
- ABS - ABS
- BRK - BRICK
- CBS - CARBON STEEL
- CNC - CONCRETE
- COP - COPPER
- FBG - FIBERGLASS
- GLS - GALVANIZED STEEL
- WRI - WROUGHT IRON
- SLS - STAINLESS STEEL
- LCS - LOW CARBON STEEL
- M - OTHER METAL
- TFL - TEFLON
- PLY - POLYPROPYLENE
- PVC - PVC
- RST - ROCK OR STONE
- STL - STEEL
- TIL - TILE
- COS - COATED STEEL
- WD - WOOD

ZONE OF COMPLETION (GZCCODE)
- A - AQUIFER
- C - CONFINING LAYER

WELL COMPLETION METHODS (WCMCODE)
- C - POROUS CONCRETE
- GP - GRAVEL PACK W/PERF.
- GS - GRAVEL PACK W/SCREEN
- H - HORIZONTAL GALLERY
- OE - OPEN END
- P - PERFORATED OR SLOTTED
- S - SCREEN
- SP - SAND POINT
- W - WALLED OR SHORED
- OP - OPEN

BOREHOLE LOG (SOIL)

INSTALLATION ID ELM 0687 LOCATION ID SP7/10-2 (085)
LOCATION TYPE BH LOCATION PROXIMITY I
COORDINATES (FT): NORTH ____ EAST ____
SURFACE ELEVATION (FTMSL) 165 ft
DRILLER CODE ____ CONSTRUCTION METHOD HS
DATE STARTED 7/26/88 DATE COMPLETED 7/26/88
BOREHOLE DEPTH (FT.) 25 ft BOREHOLE DIAM. (IN) 8 in

GROUNDWATER LEVELS		
DATE	TIME	DEPTH (FT)
7/26/88	1145	16.5 (groundwater)
7/27/88	1230	16.35 TOC

LOCATION DESCRIPTION
140 ft south of taxiway & 150 ft west of red radio location is grassy area west of Taxiway 2 north of Runway

MAP REFERENCE ID ____ LOCATION CROSS REFERENCE ____

LITHOLOGIC LOG LOGGER CODE ____

	DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
1030	1									GP	0 - 17 ft: brown coarse gravel
	3										with some sand
1045	5	↓	↓		U			N	N		and trace silt, damp,
	7										dense, numerous 3in cobbles
	9										
1055	11	↓	↓	↓	U	085/0001	-	0.3	N		
	13										
	15	↓	↓		U			0	N		
	17										17 - 22 ft: Gray gravelly
	19									SW	sand, wet, dense
1135	21	↓	↓		U	085/0002	†Dupe	0	N		22 - 25 ft: Gray medium
	23									SP	sand, dense, wet
1200	25	↓	↓		U			0	N		
											T.D. @ 25 ft. Installed

LOCATION PROXIMITY (LPRCODE)
I - WITHIN INSTALLATION O - OUTSIDE INSTALLATION

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

CONSTRUCTION METHODS (CMCCODE)
AR - AIR ROTARY
B - BORED OR AUGERED
C - CABLE-TOOL
D - DUG
HS - HOLLOW STEM AUGER
J - JETTED
P - AIR-PERCUSSION
RM - REVERSE ROTARY, MUD
T - TRENCHING
V - DRIVEN
W - DRIVE AND WASH

SAMPLE METHODS (SSMCODE)
A - AUGER CUTTINGS
S - 2" O.D. 1.38" I.D. DRIVE SAMPLE
U - 3" O.D. 2.42" I.D. TUBE SAMPLE
T - 3" O.D. THIN-WALLED SHELBY TUBE

WELL COMPLETION INFORMATION

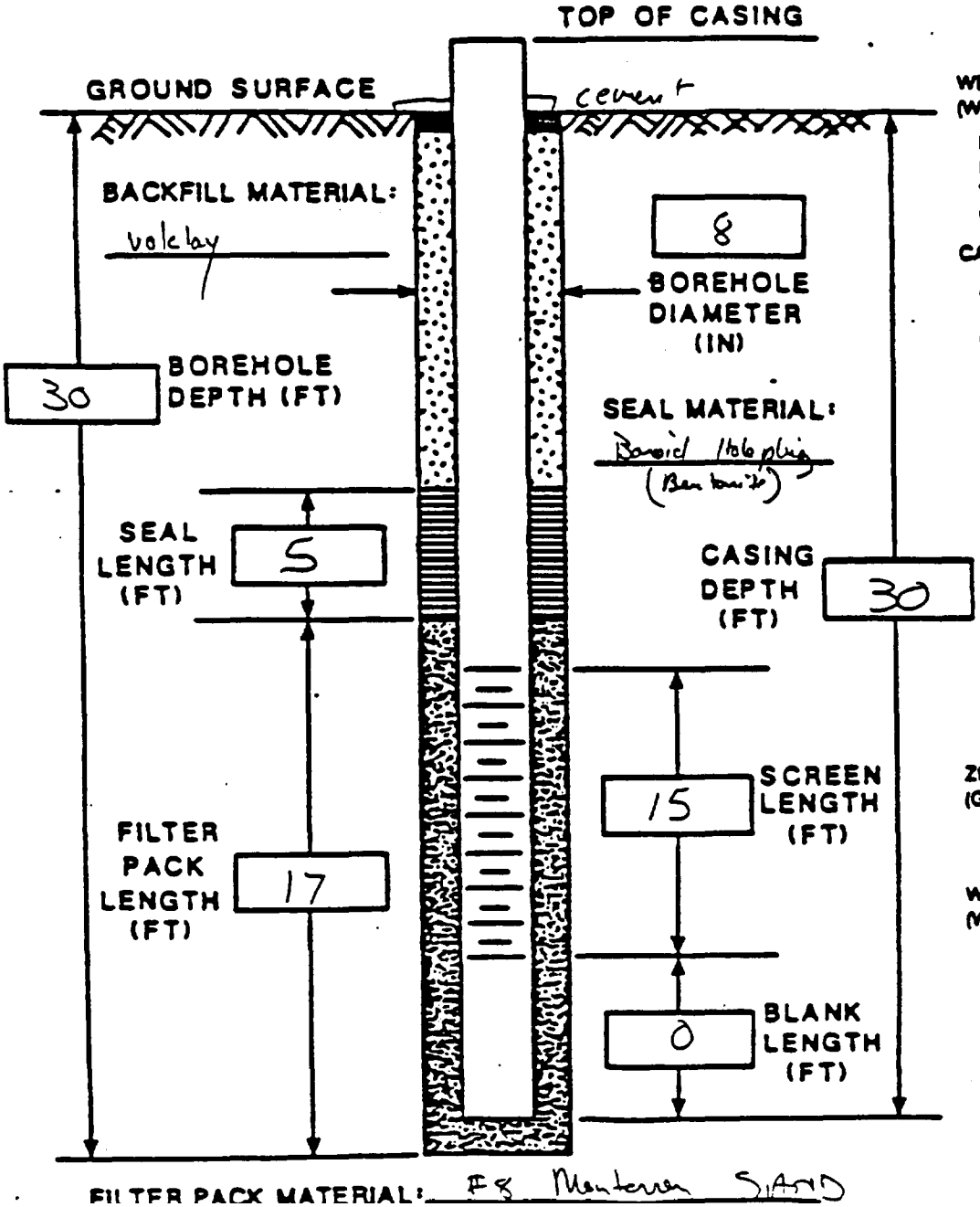
INSTALLATION ID ECM 0687
LOCATION ID SP7/10-03 (086)
WELL OWNER _____
WELL TYPE CLASS. _____
FORMATION OF COMPLETION Sand

LOCATION TYPE WL
INSTALLATION DATE 7/27/88
INSTALLER Dugan
WELL COMPLETION METHOD GS
ZONE OF COMPLETION A

SEAL END DEPTH (FT) 13
MEAS. POINT ELEV. (FTMSL) 170
CASING DEPTH (FT) 30 B
CASING DIAMETER (IN) 2 in ID
CASING MATERIAL PVC

FILTER PACK LENGTH (FT) 17
SCREEN BEGIN. DEPTH (FT) 15
SCREEN LENGTH (FT) 15
SCREEN SLOT SIZE (IN) .02 in

REMARKS _____



WELL TYPE CLASSIFICATIONS (WTCCODE)
- MNW - MONITORING WELL
- PRW - PRODUCTION WELL
- TST - TEST WELL
- WSW - WATER SUPPLY WELL

CASING MATERIAL (CMACODE)
- ABS - ABS
- BRK - BRICK
- CBS - CARBON STEEL
- CNC - CONCRETE
- COP - COPPER
- FBG - FIBERGLASS
- GLS - GALVANIZED STEEL
- WRI - WROUGHT IRON
- SLS - STAINLESS STEEL
- LCS - LOW CARBON STEEL
- M - OTHER METAL
- TFL - TEFLON
- PLY - POLYPROPYLENE
- PVC - PVC
- RST - ROCK OR STONE
- STL - STEEL
- TIL - TILE
- COS - COATED STEEL
- WD - WOOD

ZONE OF COMPLETION (GZCCODE)
- A - AQUIFER
- C - CONFINING LAYER

WELL COMPLETION METHODS: (WCMCODE)
- C - POROUS CONCRETE
- GP - GRAVEL PACK W/PERF.
- GS - GRAVEL PACK W/SCR
- H - HORIZONTAL GALLERY
- OE - OPEN END
- P - PERFORATED OR SLOTTE
- S - SCREEN
- SP - SAND POINT
- W - WALLED OR SHORED
- OP - OPEN

BOREHOLE LOG (SOIL)

INSTALLATION ID ELM 0687 LOCATION ID SP 7/10 - 03 (086)
LOCATION TYPE BH LOCATION PROXIMITY I
COORDINATES (FT): NORTH _____ EAST _____
SURFACE ELEVATION (FTMSL) 170
DRILLER CODE _____ CONSTRUCTION METHOD HS
DATE STARTED 7/27/88 DATE COMPLETED 7/27/88
BOREHOLE DEPTH (FT.) 30 ft+ BOREHOLE DIAM. (IN) 8 in

GROUNDWATER LEVELS		
DATE	TIME	DEPTH (FT)
7/27/88	1130	23.7

LOCATION DESCRIPTION
120 ft west of Pumphouse #9 bldg 42-10
65 ft north of north ramp
90 ft south of bldg 42-100
in 6 in clover covered ground

MAP REFERENCE ID _____ LOCATION CROSS REFERENCE _____

LITHOLOGIC LOG LOGGER CODE _____

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
1000 1-									GP	0 - 7 ft: Brown coarse gr
3									~~GP~~	with some sand
5	↕	↕					.01	N		trace silt damp dens
7										
9									GW	7 - 21 ft: Brown sandy
1045 11	↕	↓	↓	U	086/0001		0	N		gravel damp very dense
13										gravel to 3 in diam
15	↕	↕		U			0	N		
17										
19										
21	↓	↓		U			0	N		
23									SW	21 - 30.0 ft: Gray sand
1130 25	↕	↕	↕	U	086/0002		0	N		wet, dense
27										
29	↕	↕		U			0	N		
1200										

LOCATION PROXIMITY (LPRCODE)
I - WITHIN INSTALLATION O - OUTSIDE INSTALLATION

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST
TD 30 ft
Installed 2 in ID PVC well

CONSTRUCTION METHODS (CMCCODE)
AR - AIR ROTARY
B - BORED OR AUGERED
C - CABLE-TOOL
D - DUG
HS - HOLLOW STEM AUGER
J - JETTED
P - AIR-PERCUSSION
RM - REVERSE ROTARY, MUD
T - TRENCHING
V - DRIVEN
W - DRIVE AND WASH

SAMPLE METHODS (SSMCODE)
A - AUGER CUTTINGS
S - 2" O.D. 1.38" I.D. DRIVE SAMPLE
U - 3" O.D. 2.42" I.D. TUBE SAMPLE
T - 3" O.D. THIN-WALLED SHELBY TUBE

WELL COMPLETION INFORMATION

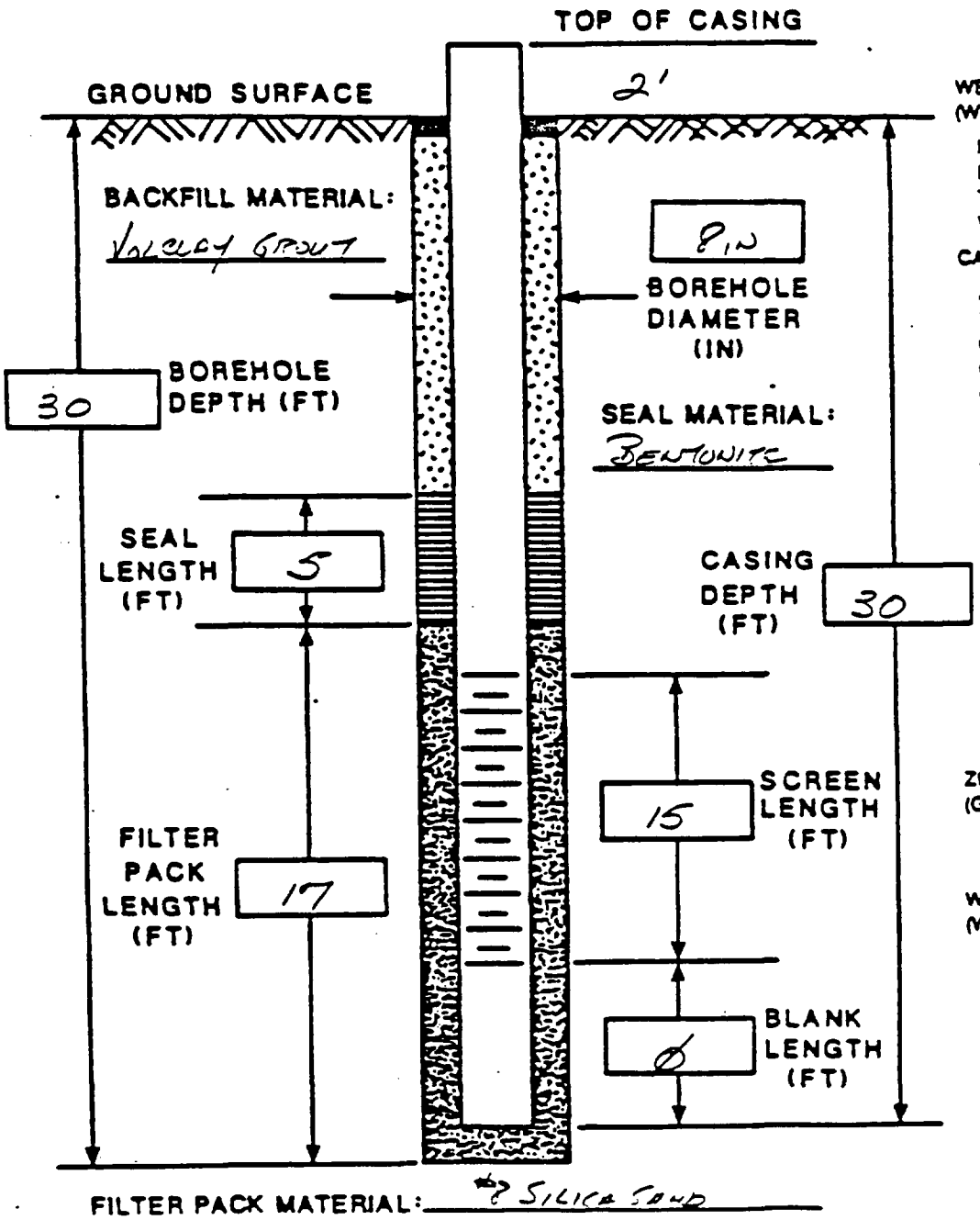
INSTALLATION ID Elmendorf AFB
LOCATION ID SP710-04 (087)
WELL OWNER
WELL TYPE CLASS. MNW
FORMATION OF COMPLETION SAND

LOCATION TYPE WL
INSTALLATION DATE 7/27/92
INSTALLER B&J
WELL COMPLETION METHOD S
ZONE OF COMPLETION 30-15

SEAL END DEPTH (FT)
MEAS. POINT ELEV. (FTMSL)
CASING DEPTH (FT) 30
CASING DIAMETER (IN) 2
CASING MATERIAL PVC

FILTER PACK LENGTH (FT) 17
SCREEN BEGIN. DEPTH (FT) 30
SCREEN LENGTH (FT) 15
SCREEN SLOT SIZE (IN) .010

REMARKS



WELL TYPE CLASSIFICATIONS (WTCODE)
- MNW - MONITORING WELL
- PRW - PRODUCTION WELL
- TST - TEST WELL
- WSW - WATER SUPPLY WELL

CASING MATERIAL (CMACODE)
- ABS - ABS
- BRK - BRICK
- CBS - CARBON STEEL
- CNC - CONCRETE
- COP - COPPER
- FBG - FIBERGLASS
- GLS - GALVANIZED STEEL
- WRI - WROUGHT IRON
- SLS - STAINLESS STEEL
- LCS - LOW CARBON STEEL
- M - OTHER METAL
- TFL - TEFLON
- PLY - POLYPROPYLENE
- PVC - PVC
- RST - ROCK OR STONE
- STL - STEEL
- TIL - TILE
- COS - COATED STEEL
- WD - WOOD

ZONE OF COMPLETION (GZCODE)
- A - AQUIFER
- C - CONFINING LAYER

WELL COMPLETION METHODS (WCMCODE)
- C - POROUS CONCRETE
- GP - GRAVEL PACK W/PERF
- GS - GRAVEL PACK W/SCREEN
- H - HORIZONTAL GALLERY
- OE - OPEN END
- P - PERFORATED OR SLOTTE
- S - SCREEN
- SP - SAND POINT
- W - WALLED OR SHORED
- OP - OPEN

BOREHOLE LOG (SOIL)

INSTALLATION ID Elmendorf AFB — LOCATION ID SP7/10-04 (087)
LOCATION TYPE BH — LOCATION PROXIMITY I
COORDINATES (FT): NORTH ___ EAST ___
SURFACE ELEVATION (FTMSL) ___
DRILLER CODE DISC — CONSTRUCTION METHOD HS
DATE STARTED 7/27/89 — DATE COMPLETED 7/27/89
BOREHOLE DEPTH (FT.) 30+ — BOREHOLE DIAM. (IN) 8.0

GROUNDWATER LEVELS		
DATE	TIME	DEPTH (FT)

LOCATION DESCRIPTION

MAP REFERENCE ID ___ LOCATION CROSS REFERENCE ___

LITHOLOGIC LOG — LOGGER CODE ___

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
2										GRAVEL - DENSE, VARIED COLORS, FINE TO COARSE SIZE, POORLY SORTED
4									GC	V. CLAYEY W/DK. BROWN WK PLASTIC CLAY
6	↕	6"		U			40ppm	N		
8										
10										
12	↕	16"		U	087 0001		20ppm	N	GC	
14									SP	SAND - LOOSE, OLIVE-GRAY, FINE TO COARSE GRAINED, POORLY SORTED SUB-ROUNDED
16	↕	12"		U			4ppm 150ppm	N YES		CLAYEY & SILTY
18										▽ H2O @ 18.5 BTC
20										
22	↕	16"		U	087 0002		70ppm 130ppm	VES VES		
24										
26	↕	10"		U			40ppm	YES		SAND - MED DENSE, GRAY, FINE TO COARSE GRAINED, POORLY SORTED V. CLAYEY
28										SILT & SOME GRAVEL STRATA
30							110ppm	YES		— 30 ft

LOCATION PROXIMITY (LPRCODE)
I - WITHIN INSTALLATION O - OUTSIDE INSTALLATION

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

CONSTRUCTION METHODS (CMCCODE)
- AR - AIR ROTARY
- B - BORED OR AUGERED
- C - CABLE-TOOL
- D - DUG
- HS - HOLLOW STEM AUGER
- J - JETTED
- P - AIR-PERCUSSION
- RM - REVERSE ROTARY, MUD
- T - TRENCHING
- V - DRIVEN
- W - DRIVE AND WASH

SAMPLE METHODS (SSMCODE)
- A - AUGER CUTTINGS
- S - 2" O.D. 1.38" I.D. DRIVE SAMPLE
- U - 3" O.D. 2.42" I.D. TUBE SAMPLE
- T - 3" O.D. THIN-WALLED SHELBY TUBE

PIEZOMETER DETAIL INFORMATION SHEET

GROUND SURFACE ELEVATION —

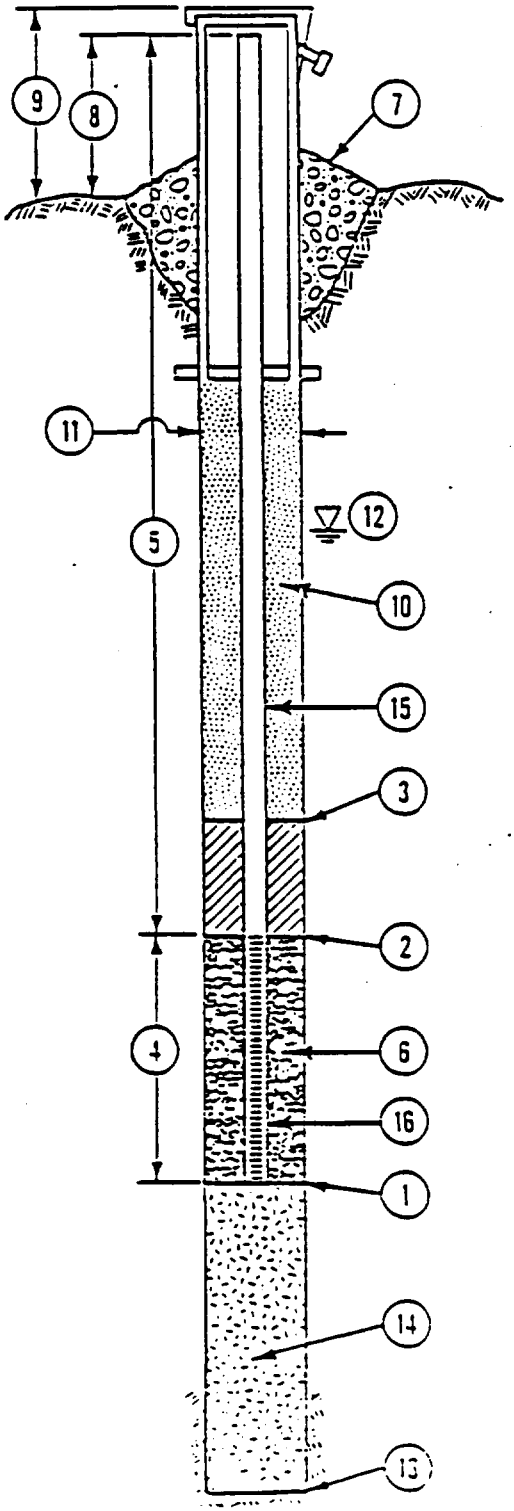
TOP OF WELL CASING ELEVATION —

JOB NUMBER 10K-200

BORING NUMBER W-2

DATE 6/22/84

LOCATION Elmendorf



(1) DEPTH TO BOTTOM OF WELL POINT OR SLOTTED PIPE 35 FEET.*

(2) DEPTH TO BOTTOM OF SEAL (IF INSTALLED) 10 FEET.*

(3) DEPTH TO TOP OF SEAL (IF INSTALLED) 5 FEET.*

(4) LENGTH OF WELL SCREEN 25' FEET. SLOT SIZE .01.

(5) TOTAL LENGTH OF PIPE 11 FEET AT 2 INCH DIAMETER.

(6) TYPE OF PACK AROUND WELL POINT OR SLOTTED PIPE Natural Sand.

(7) CONCRETE CAP. (YES) NO (CIRCLE ONE)

(8) HEIGHT OF WELL CASING ABOVE GROUND 1 FEET.

(9) PROTECTIVE CASING? (YES) NO (CIRCLE ONE)
HEIGHT ABOVE GROUND 1.2' FEET.
LOCKING CAP? (YES) NO (CIRCLE ONE)

(10) TYPE OF UPPER BACKFILL Concrete

(11) BOREHOLE DIAMETER 8 INCHES.

(12) DEPTH TO GROUND WATER 20± FEET.*

(13) TOTAL DEPTH OF BOREHOLE 40 FEET.*

(14) TYPE OF LOWER BACKFILL Natural Sand

(15) PIPE MATERIAL PVC Schedule 40

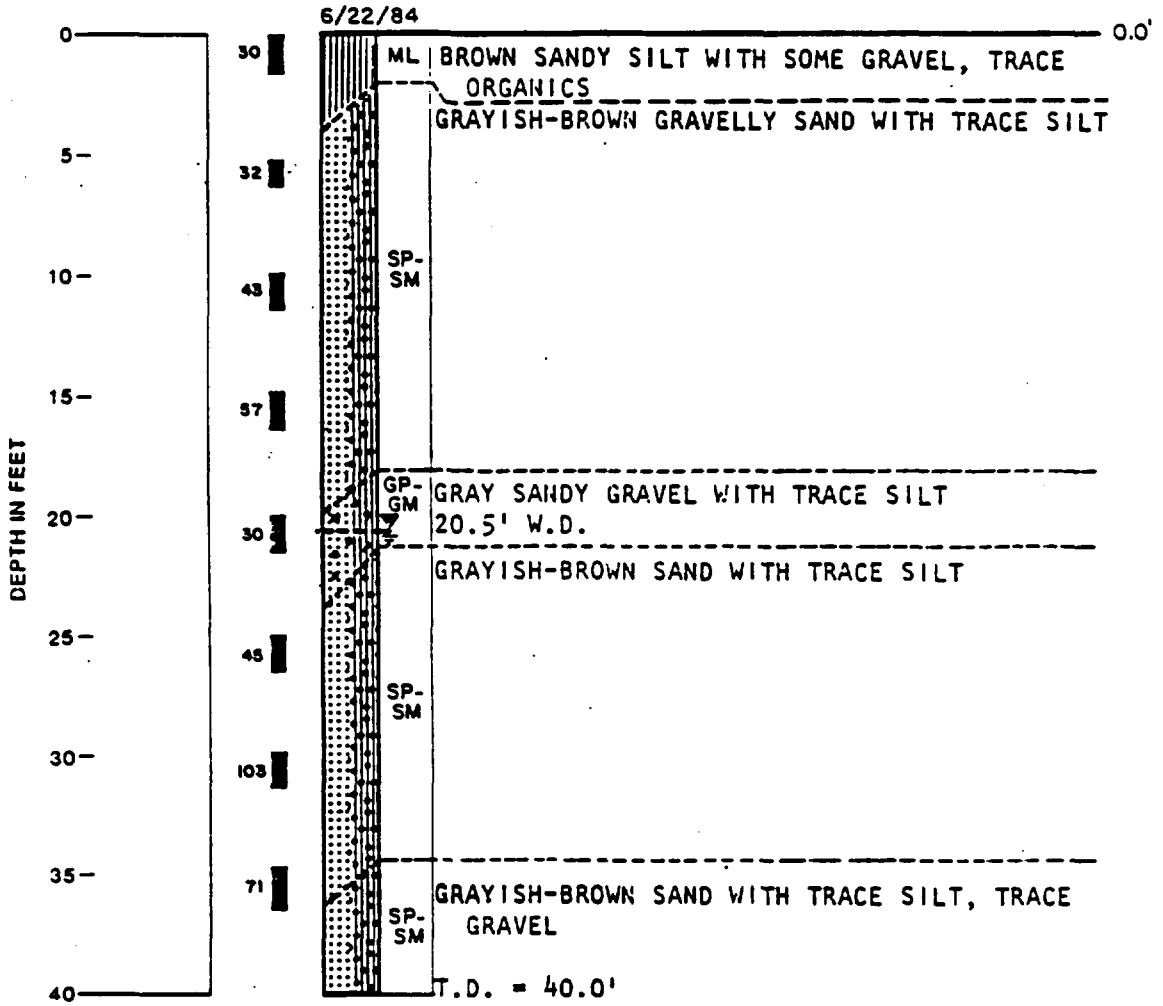
(16) SCREEN MATERIAL PVC Schedule 40

* (DEPTH FROM GROUND SURFACE)

PIEZOMETER INSTALLATION DETAILS

Dames & Moore

ELMENDORF AFB
BORING W-3



LOG OF BORING

Dames & Moore

PLATE C-6

PIEZOMETER DETAIL INFORMATION SHEET

GROUND SURFACE ELEVATION —

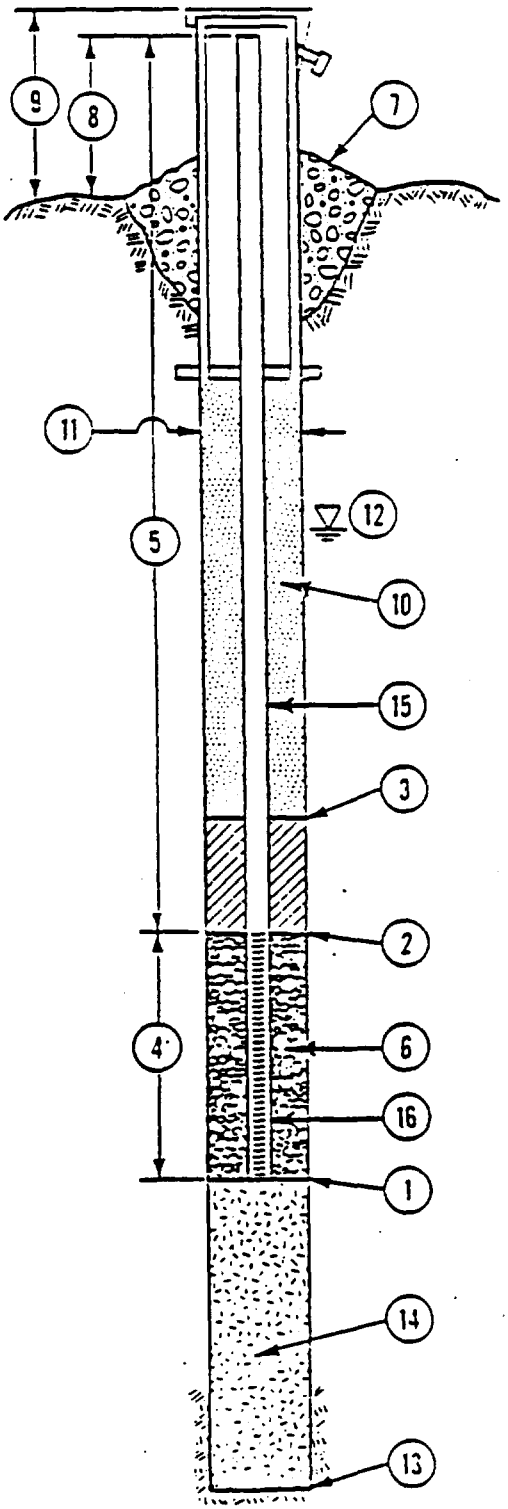
TOP OF WELL CASING ELEVATION —

JOB NUMBER 1016-200

BORING NUMBER [illegible]

DATE [illegible]

LOCATION [illegible]



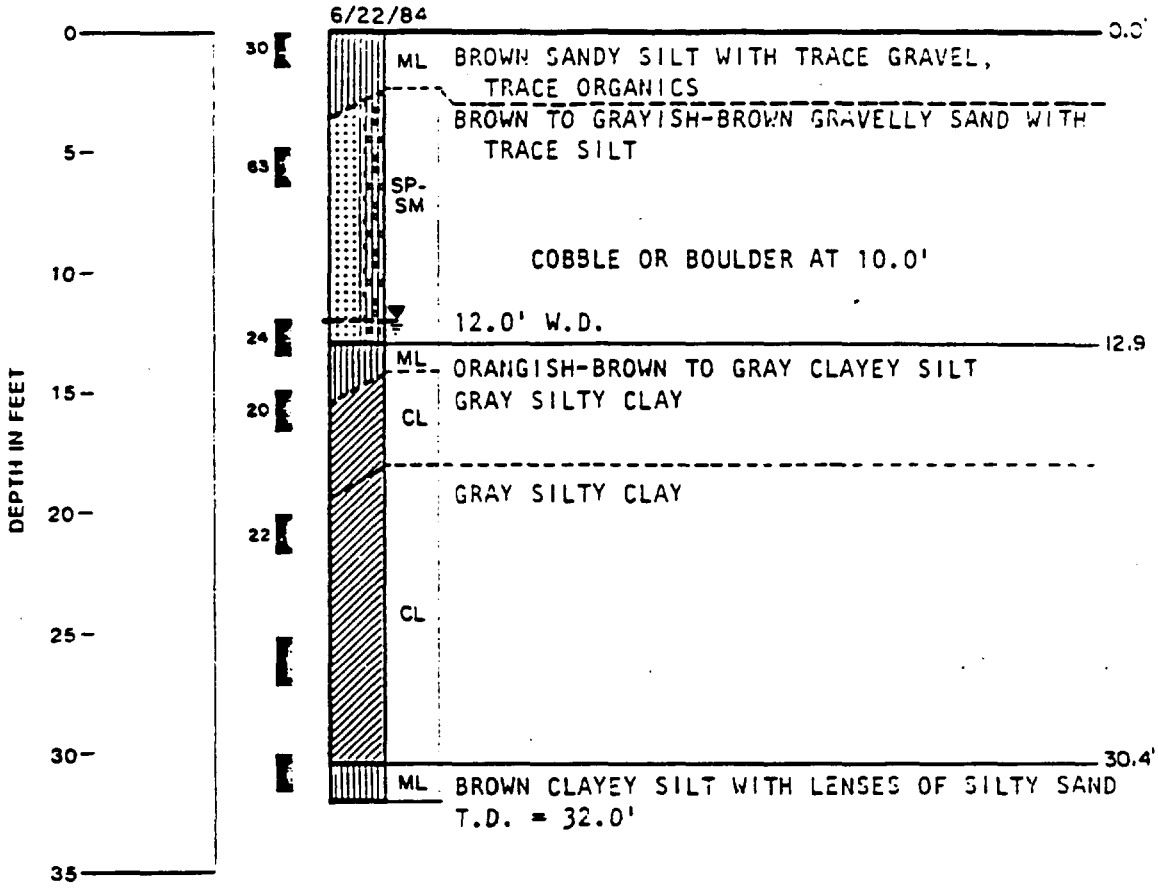
1. DEPTH TO BOTTOM OF WELL POINT OR SLOTTED PIPE 22 FEET.*
2. DEPTH TO BOTTOM OF SEAL (IF INSTALLED) — FEET.*
3. DEPTH TO TOP OF SEAL (IF INSTALLED) 2 FEET.*
4. LENGTH OF WELL SCREEN 25 FEET
   SLOT SIZE 01.
5. TOTAL LENGTH OF PIPE 8 FEET OF 2 INCH DIAMETER.
6. TYPE OF PACK AROUND WELL POINT OR SLOTTED PIPE [illegible]
7. CONCRETE CAP. (YES) NO (CIRCLE ONE)
8. HEIGHT OF WELL CASING ABOVE GROUND 1 FEET.
9. PROTECTIVE CASING? (YES) NO (CIRCLE ONE)
   HEIGHT ABOVE GROUND 4 FEET.
   LOCKING CAP? (YES) NO (CIRCLE ONE)
10. TYPE OF UPPER BACKFILL cement
11. BOREHOLE DIAMETER 8 INCHES.
12. DEPTH TO GROUND WATER 12 FEET.*
13. TOTAL DEPTH OF BOREHOLE 37 FEET.*
14. TYPE OF LOWER BACKFILL [illegible]
15. PIPE MATERIAL PVC - schedule - 40
16. SCREEN MATERIAL PVC schedule - 40

*(DEPTH FROM GROUND SURFACE)

PIEZOMETER INSTALLATION DETAILS

Dames & Moore

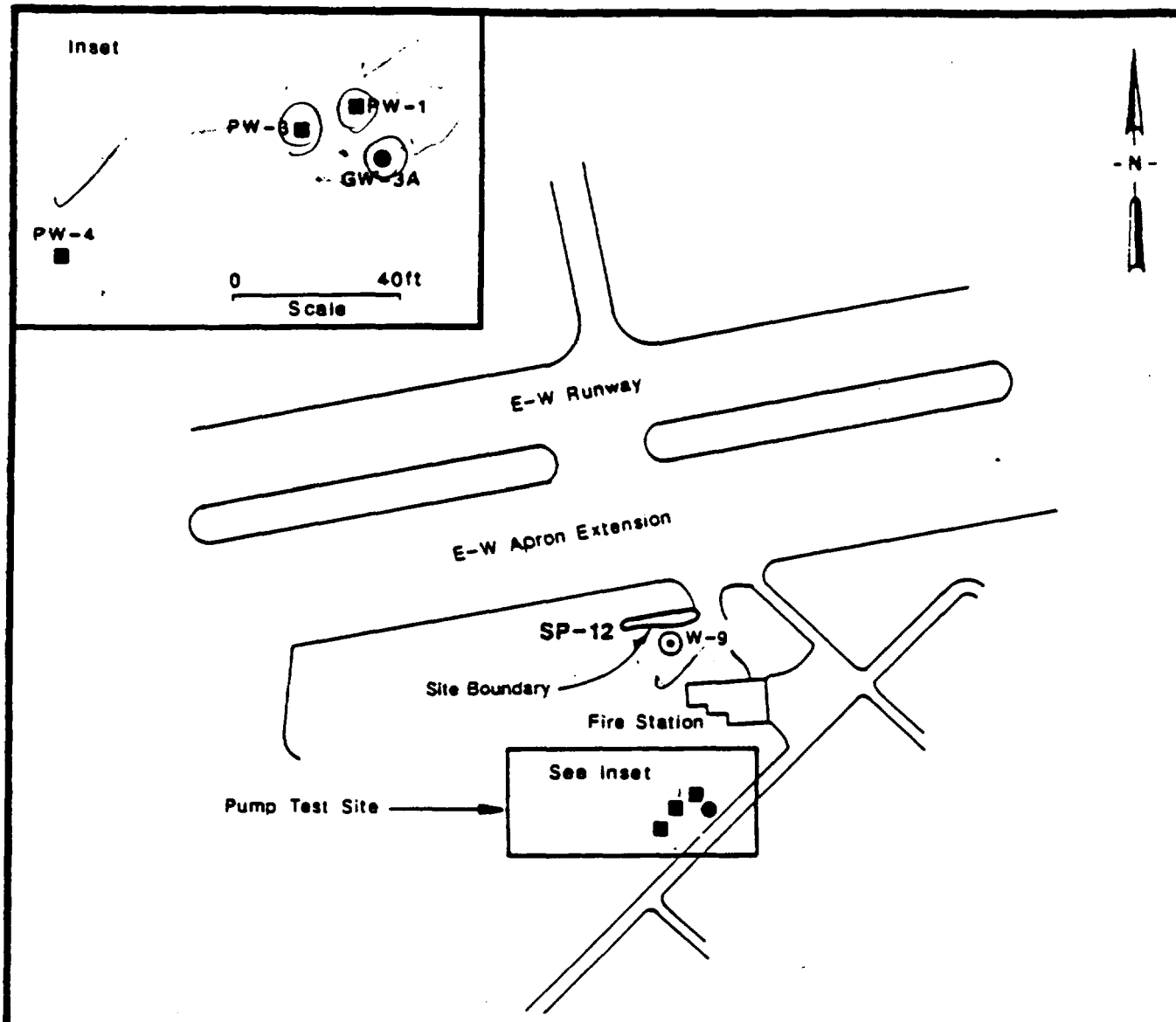
ELMENDORF AFB
BORING W-4



LOG OF BORING

Dames & Moore

PLATE C-7



Legend:

W-9 ⊙ Monitoring Well Location, Phase II, Stage 1

GW-3A ● Monitoring Well Location, Phase II, Stage 2

PW-4 ■ Pump Well Location

LOCATION MAP
SITE SP-12

IRP Stage 3 RI/FS
Elmendorf AFB, AK

Figure
4.2.15.1

ST47
5547

ST47

POL 3
Source

WELL COMPLETION INFORMATION

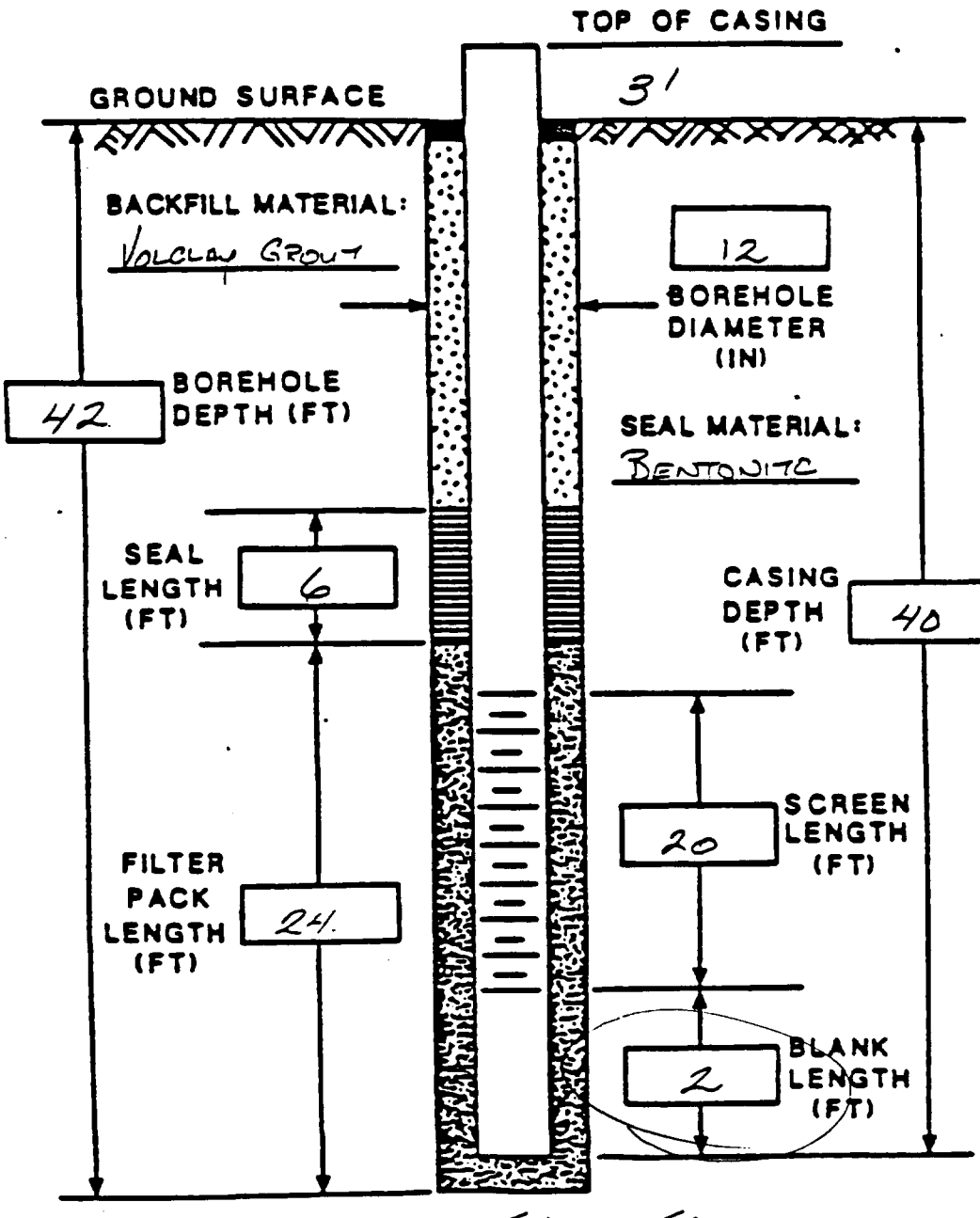
INSTALLATION ID Elmendorf AFB
LOCATION ID PT-01
WELL OWNER
WELL TYPE CLASS. TST
FORMATION OF COMPLETION SAND

LOCATION TYPE WL
INSTALLATION DATE 8/16/88
INSTALLER R&V
WELL COMPLETION METHOD S
ZONE OF COMPLETION A

SEAL END DEPTH (FT)
MEAS. POINT ELEV. (FTMSL)
CASING DEPTH (FT) 40
CASING DIAMETER (IN) 4
CASING MATERIAL PVC

FILTER PACK LENGTH (FT) 22
SCREEN BEGIN. DEPTH (FT) 40
SCREEN LENGTH (FT) 20
SCREEN SLOT SIZE (IN) .010

REMARKS Pump well for Aquifer-Pump TEST



WELL TYPE CLASSIFICATIONS (WTCODE)
- MNW - MONITORING WELL
- PRW - PRODUCTION WELL
- TST - TEST WELL
- WSW - WATER SUPPLY WELL

CASING MATERIAL (CMACODE)
- ABS - ABS
- BRK - BRICK
- CBS - CARBON STEEL
- CNC - CONCRETE
- COP - COPPER
- FBG - FIBERGLASS
- GLS - GALVANIZED STEEL
- WRI - WROUGHT IRON
- SLS - STAINLESS STEEL
- LCS - LOW CARBON STEEL
- M - OTHER METAL
- TFL - TEFLON
- PLY - POLYPROPYLENE
- PVC - PVC
- RST - ROCK OR STONE
- STL - STEEL
- TIL - TILE
- COS - COATED STEEL
- WD - WOOD

ZONE OF COMPLETION (GZCCODE)
- A - AQUIFER
- C - CONFINING LAYER

WELL COMPLETION METHODS: (WCMCODE)
- C - POROUS CONCRETE
- GP - GRAVEL PACK W/PERF.
- GS - GRAVEL PACK W/SCREE
- H - HORIZONTAL GALLERY
- OE - OPEN END
- P - PERFORATED OR SLOTTE
- S - SCREEN
- SP - SAND POINT
- W - WALLED OR SHORED
- OP - OPEN

BOREHOLE LOG (SOIL)

INSTALLATION ID Elmendorf AFB — LOCATION ID PT-01 (Pump Well)
LOCATION TYPE BH — LOCATION PROXIMITY I
COORDINATES (FT): NORTH ____ EAST ____
SURFACE ELEVATION (FTMSL) ____
DRILLER CODE DD — CONSTRUCTION METHOD HS
DATE STARTED 8/13/88 — DATE COMPLETED 8/16/88
BOREHOLE DEPTH (FT.) 42ft — BOREHOLE DIAM. (IN) 12in

GROUNDWATER LEVELS		
DATE	TIME	DEPTH (FT)
8/13/88		22.5ft A.T.D.

LOCATION DESCRIPTION

MAP REFERENCE ID ____ LOCATION CROSS REFERENCE ____

LITHOLOGIC LOG — LOGGER CODE RS

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
2							N	N	fill	CLAY - SOFT, MED. BROWN, LOW PLASTIC, V. SILTY W/SOME GRAVEL.
4										fill - BOULDERS, GRAVELS, CONCRETE, CLAY & SILT
6		12"								GRAVEL - DENSE, VARIED COLORS, MED. TO V. COARSE PEBBLE SIZE, POORLY SORTED, SUB-ROUNDED, V. CLAYEY W/MED. BROWN CLAY & SILTS W/SOME CONCRETE, STEEL & BRICK DEBRIS.
8										
10										
12		16"							fill	
14										
16		15"								
18										
20									GC ?	
22		10"								
24									SP	SAND - DENSE, DK. BROWN, FINE TO COARSE GRAINED, POORLY SORTED, V. CLAYEY W/V. COARSE SAND TO MED. PEBBLE GRAVELS
26		14"								
28										
30										

LOCATION PROXIMITY (LPRCODE)
I - WITHIN INSTALLATION O - OUTSIDE INSTALLATION

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

CONSTRUCTION METHODS (CMCCODE)
- AR - AIR ROTARY
- B - BORED OR AUGERED
- C - CABLE-TOOL
- D - DUG
- HS - HOLLOW STEM AUGER
- J - JETTED
- P - AIR-PERCUSSION
- RM - REVERSE ROTARY, MUD
- T - TRENCHING
- V - DRIVEN
- W - DRIVE AND WASH

SAMPLE METHODS (SSMCODE)
- A - AUGER CUTTINGS
- S - 2" O.D. 1.38" I.D. DRIVE SAMPLE
- U - 3" O.D. 2.42" I.D. TUBE SAMPLE
- T - 3" O.D. THIN-WALLED SHELBY TUBE

BOREHOLE LOG (SOIL)

INSTALLATION ID ELMENDORF AFB
LOCATION ID PT-01 (PUMP WELL)
DATE STARTED 8/10/88

LITHOLOGIC LOG

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
32	↕	16'					N	N	SD	
34										SAND - DENSE, DK BROWN, F. GR TO V. COARSE GRAINED, POORLY SORTED, ROUNDED TO
36										ANGULAR; V. CLAYEY W/ GRANULE TO COARSE PEBBLE GRAVEL.
38										
40										SAND - DENSE, MED. BROWN, F. GR TO V. COARSE GRAINED, POORLY SORTED, ROUNDED TO ANGULAR.
42	↕	13'					V	V	SP	V. CLAYEY, V. SILTY W/ GRANULE TO MED. PEBBLE GRAVEL.
44										
										TD 42 ft.
										WELL SET @ 42 ft W/ BOTTOM
										of SCREEN @ 40 ft.

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

WELL COMPLETION INFORMATION

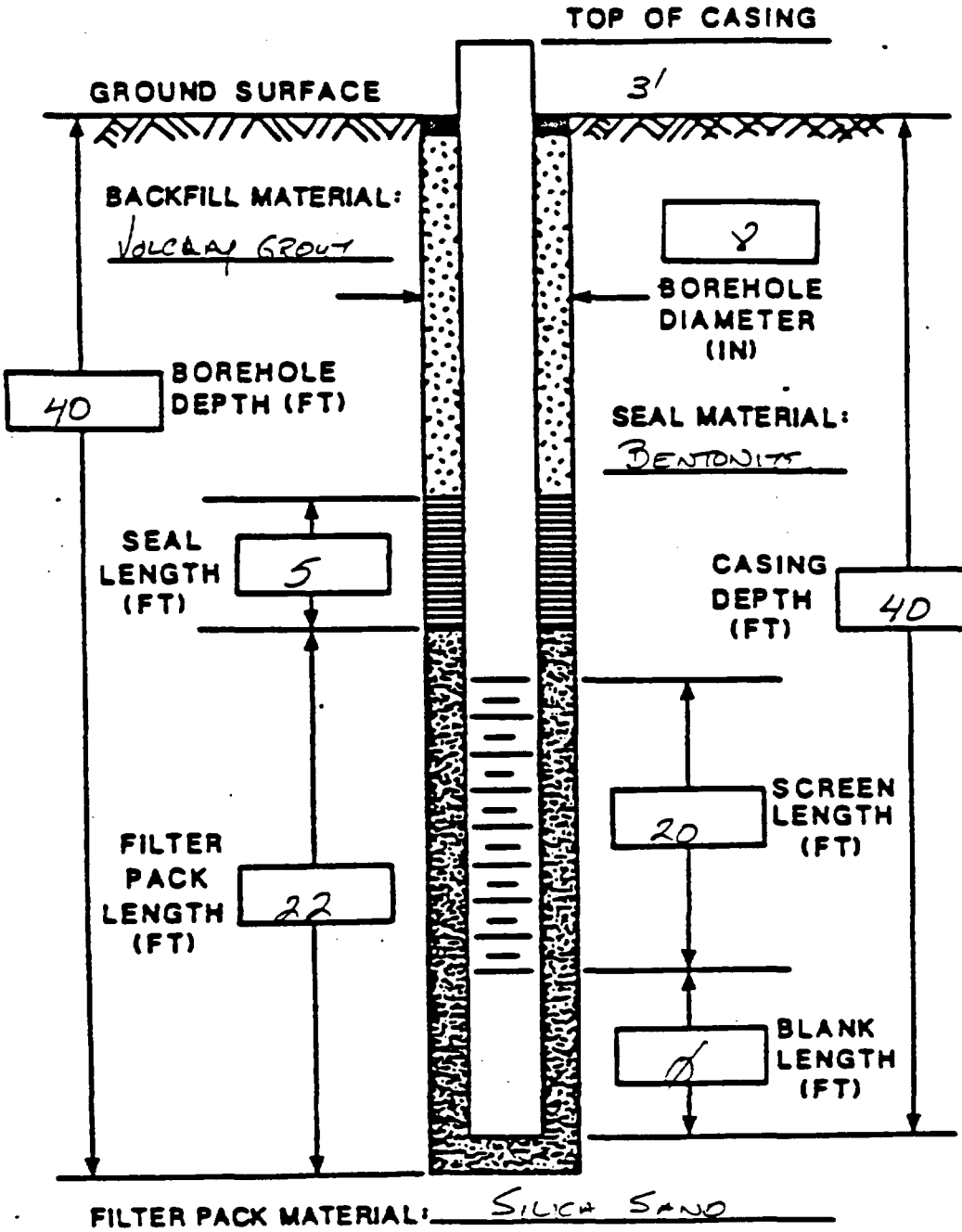
INSTALLATION ID ELMENDORF AFB
LOCATION ID PT-03
WELL OWNER
WELL TYPE CLASS MNW
FORMATION OF COMPLETION

LOCATION TYPE WL
INSTALLATION DATE 8/12/88
INSTALLER B&V
WELL COMPLETION METHOD 5
ZONE OF COMPLETION A

SEAL END DEPTH (FT)
MEAS. POINT ELEV. (FT MSL)
CASING DEPTH (FT) 40
CASING DIAMETER (IN) 2
CASING MATERIAL PVC

FILTER PACK LENGTH (FT) 22
SCREEN BEGIN. DEPTH (FT) 40
SCREEN LENGTH (FT) 20
SCREEN SLOT SIZE (IN) .010

REMARKS OBSERVATION WELL for PUMP TEST WELL



WELL TYPE CLASSIFICATIONS (WTCODE)
- MNW - MONITORING WELL
- PRW - PRODUCTION WELL
- TST - TEST WELL
- WSW - WATER SUPPLY WELL

CASING MATERIAL (CMACODE)
- ABS - ABS
- BRK - BRICK
- CBS - CARBON STEEL
- CNC - CONCRETE
- COP - COPPER
- FBG - FIBERGLASS
- GLS - GALVANIZED STEEL
- WRI - WROUGHT IRON
- SLS - STAINLESS STEEL
- LCS - LOW CARBON STEEL
- M - OTHER METAL
- TFL - TEFLON
- PLY - POLYPROPYLENE
- PVC - PVC
- RST - ROCK OR STONE
- STL - STEEL
- TIL - TILE
- COS - COATED STEEL
- WD - WOOD

ZONE OF COMPLETION (GZCODE)
- A - AQUIFER
- C - CONFINING LAYER

WELL COMPLETION METHODS: (WCMCODE)
- C - POROUS CONCRETE
- GP - GRAVEL PACK W/PERF.
- GS - GRAVEL PACK W/SCREEN
- H - HORIZONTAL GALLERY
- OE - OPEN END
- P - PERFORATED OR SLOTTED
- S - SCREEN
- SP - SAND POINT
- W - WALLED OR SHORED
- OP - OPEN

BOREHOLE LOG (SOIL)

INSTALLATION ID Elmendorf AFB — LOCATION ID PT-03 (OBSERVATION WELL)
LOCATION TYPE BH — LOCATION PROXIMITY =
COORDINATES (FT): NORTH _____ EAST _____
SURFACE ELEVATION (FTMSL) _____
DRILLER CODE DD — CONSTRUCTION METHOD HS
DATE STARTED 8/12/88 — DATE COMPLETED 8/12/88
BOREHOLE DEPTH (FT.) 40ft — BOREHOLE DIAM. (IN) D.N.

GROUNDWATER LEVELS		
DATE	TIME	DEPTH (FT)
8/12/88		26 ATD

LOCATION DESCRIPTION

MAP REFERENCE ID _____ LOCATION CROSS REFERENCE _____

LITHOLOGIC LOG — LOGGER CODE RH

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
2									FILL	CLAY- SOFT, MED. BROWN, LOW PLASTIC, V. SILTY
4										FILL - BOULDERS, GRAVELS, CONCRETE, CLAYS & SILTS
6	↕	12"					↓	↓	↑	GRAVEL - DENSE, VARIED COLORS, FINE TO COARSE PEBBLE SIZE, POORLY SORTED, ANGULAR TO ROUNDED, V. CLAYEY W/
8									↓	
10									FILL	MED. BROWN CLAYS & SILTS W/SOME CONCRETE DEBRIS
12	↕	18"								
14									?	
16	↕	9"							↓	
18										
20									GC	GRAVEL - DENSE, VARIED COLORS, FINE TO V. COARSE
22	↕	18"								PEBBLE SIZE, POORLY SORTED, ANGULAR TO ROUNDED, V. COARSE TO MED. GRAINED SAND, V. SILTY & V. CLAYEY.
24										
26	↕	12"							SP	SAND - DENSE, DK BROWN, FINE TO COARSE GRAINED, POORLY SORTED, V. CLAYEY W/ V. COARSE SANDS TO MED. PEBBLE GRAVELS
28										
30							↓	↓		

LOCATION PROXIMITY (LPRCODE)
I - WITHIN INSTALLATION O - OUTSIDE INSTALLATION

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

CONSTRUCTION METHODS (CMCCODE)
- AR - AIR ROTARY
- B - BORED OR AUGERED
- C - CABLE-TOOL
- D - DUG
- HS - HOLLOW STEM AUGER
- J - JETTED
- P - AIR-PERCUSSION
- RM - REVERSE ROTARY, MUD
- T - TRENCHING
- V - DRIVEN
- W - DRIVE AND WASH

SAMPLE METHODS (SSMCODE)
- A - AUGER CUTTINGS
- S - 2" O.D. 1.38" I.D. DRIVE SAMPLE
- U - 3" O.D. 2.42" I.D. TUBE SAMPLE
- T - 3" O.D. THIN-WALLED SHELBY TUBE

BOREHOLE LOG (SOIL)

INSTALLATION ID ELMENDORF AFB
LOCATION ID MW-03 (OBSERVATION WELL) DATE STARTED 2/12/87

LITHOLOGIC LOG

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
32	↕	18"					N	N	SP	SAND - DENSE, MED. BROWN, FINE TO V. COARSE GRAINED, POORLY SORTED, ROUNDED, V. CLAYEY W/GRANULE TO MED. PEBBLE GRAVELS SILTY.
34							↓	↓		
36										
38										
40							↓	↓	SP	SAND - DENSE MED. BROWN, FINE TO V. COARSE GRAINED. POORLY SORTED, ROUNDED, V. CLAYEY W/ GRANULE TO MED PLASTIC GRAVELS SILTY
42	↕	18"								TD. 40ft
										WELL SET @ 40ft.

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

WELL COMPLETION INFORMATION

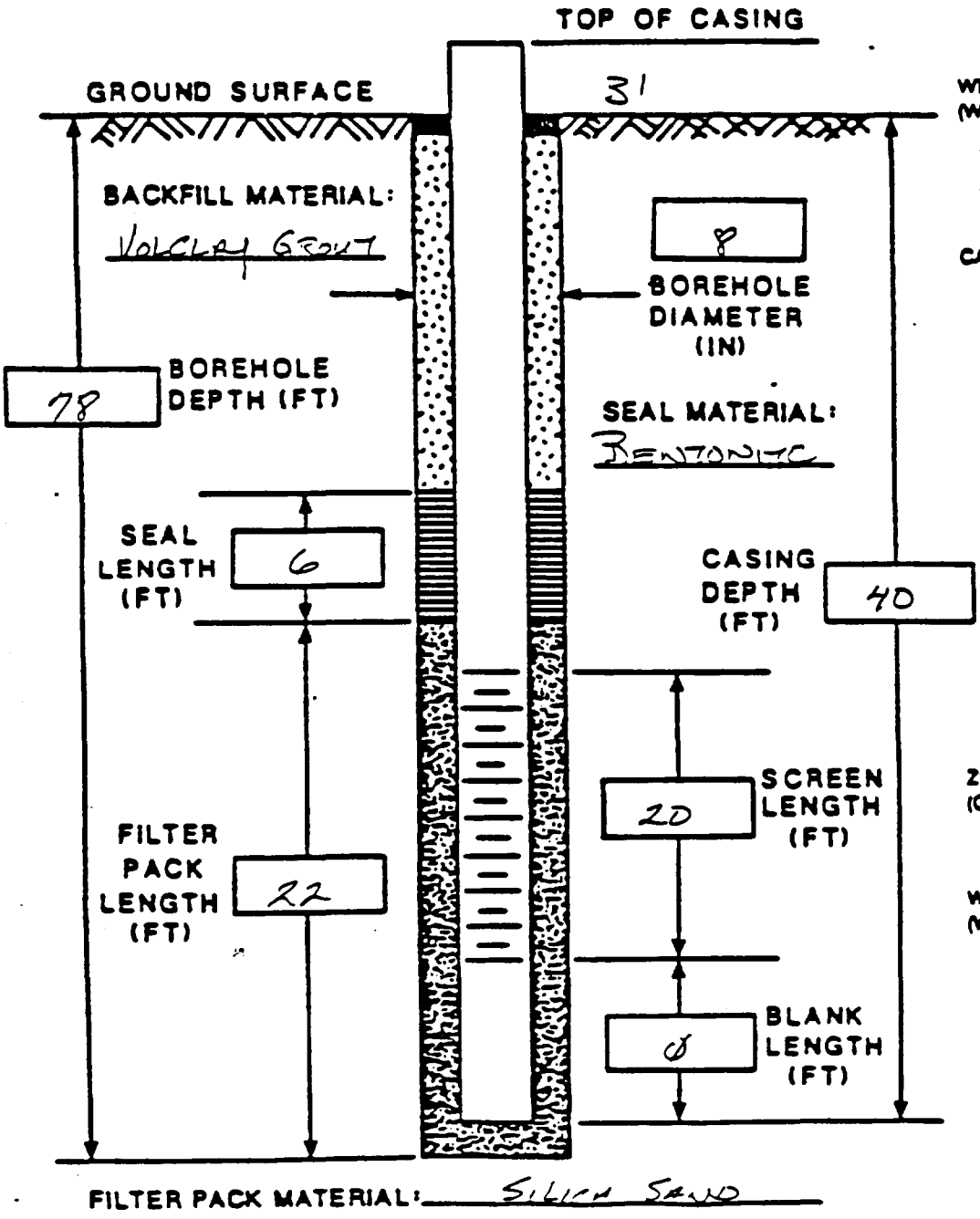
INSTALLATION ID Elmendorf AFB
LOCATION ID PT-04
WELL OWNER
WELL TYPE CLASS MNW
FORMATION OF COMPLETION SAND

LOCATION TYPE WL
INSTALLATION DATE 2/17/93
INSTALLER RIV
WELL COMPLETION METHOD S
ZONE OF COMPLETION A

SEAL END DEPTH (FT)
MEAS. POINT ELEV. (FT MSL)
CASING DEPTH (FT) 40
CASING DIAMETER (IN) 2
CASING MATERIAL PVC

FILTER PACK LENGTH (FT) 22
SCREEN BEGIN. DEPTH (FT) 40
SCREEN LENGTH (FT) 20
SCREEN SLOT SIZE (IN) .010

REMARKS OBSERVATION WELL for Pump TEST



WELL TYPE CLASSIFICATIONS (WTCCODE)
- MNW - MONITORING WELL
- PRW - PRODUCTION WELL
- TST - TEST WELL
- WSW - WATER SUPPLY WELL

CASING MATERIAL (CMACODE)
- ABS - ABS
- BRK - BRICK
- CBS - CARBON STEEL
- CNC - CONCRETE
- COP - COPPER
- FBG - FIBERGLASS
- GLS - GALVANIZED STEEL
- WRI - WROUGHT IRON
- SLS - STAINLESS STEEL
- LCS - LOW CARBON STEEL
- M - OTHER METAL
- TFL - TEFLON
- PLY - POLYPROPYLENE
- PVC - PVC
- RST - ROCK OR STONE
- STL - STEEL
- TIL - TILE
- COS - COATED STEEL
- WD - WOOD

ZONE OF COMPLETION (GZCCODE)
- A - AQUIFER
- C - CONFINING LAYER

WELL COMPLETION METHODS (WCMCODE)
- C - POROUS CONCRETE
- GP - GRAVEL PACK W/PERF
- GS - GRAVEL PACK W/SCR
- H - HORIZONTAL GALLEI
- OE - OPEN END
- P - PERFORATED OR SLOTT
- S - SCREEN
- SP - SAND POINT
- W - WALLED OR SHORED
- OP - OPEN

BOREHOLE LOG (SOIL)

INSTALLATION ID ELMENDORF AFB — LOCATION ID PT-04 (OBSERVATION WELL)
LOCATION TYPE BH — LOCATION PROXIMITY I
COORDINATES (FT): NORTH _____ EAST _____
SURFACE ELEVATION (FTMSL) _____
DRILLER CODE DD — CONSTRUCTION METHOD HS
DATE STARTED 8/16/88 — DATE COMPLETED 8/17/88
BOREHOLE DEPTH (FT.) 78 ft. — BOREHOLE DIAM. (IN) 8"

GROUNDWATER LEVELS		
DATE	TIME	DEPTH (FT)

LOCATION DESCRIPTION

MAP REFERENCE ID _____ LOCATION CROSS REFERENCE _____

LITHOLOGIC LOG — LOGGER CODE RJT

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
2									FILL	CLAY - SOFT, BROWN, LOW PLASTIC, SILTY, GRAVELS
4							N	N		FILL - GRAVELS, CONCRETE, CLAYS, SILTS
6		18"								GRAVEL - DENSE, VARIED COLORS, MED. TO V. COARSE PEBBLE SIZE, POORLY SORTED, SUB-ANGULAR TO ROUNDED, W/V. COARSE SAND, CLAYS, SILTS &
8										ORGANIC DEBRIS.
10										
12		18"								
14										
16		9"								
18										
20										GRAVEL - DENSE, COLORS VARY, FINE TO MED.
22		18"								COARSE PEBBLE SIZE, POORLY SORTED, SUB-ANGULAR TO ROUNDED W/ SAND, CLAY, SILTS.
24									SP	
26		11"								SAND - DENSE, DK. BROWN, FINE TO V. COARSE GRAINED, POORLY SORTED, V. CLAYEY, SILTY W/ GRAVELS TO MED. PEBBLE GRAVELS.
28							V.	V.		
30										

LOCATION PROXIMITY (LPRCODE)
I - WITHIN INSTALLATION O - OUTSIDE INSTALLATION

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

CONSTRUCTION METHODS (CMCCODE)

AR - AIR ROTARY
B - BORED OR AUGERED
C - CABLE-TOOL
D - DUG
HS - HOLLOW STEM AUGER
J - JETTED
P - AIR-PERCUSSION
RM - REVERSE ROTARY, MUD
T - TRENCHING
V - DRIVEN
W - DRIVE AND WASH

SAMPLE METHODS (SSMCODE)

A - AUGER CUTTINGS
S - 2" O.D. 1.38" I.D. DRIVE SAMPLE
U - 3" O.D. 2.42" I.D. TUBE SAMPLE
T - 3" O.D. THIN-WALLED SHELBY TUBE

BOREHOLE LOG (SOIL)

INSTALLATION ID ELMENDORF AFB
LOCATION ID PT-04 (OBSERVATION WELL)
DATE STARTED 8/16/89

LITHOLOGIC LOG

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
32	↕	18"					NL	N	SP	SAND - DENSE, DK. BROWN, fine to V. COARSE
34										GRAINED, POORLY SORTED, ROUNDED, V.
36										CLAYEY, SILTY W/SOME GRAVEL.
38										
40										
42	↕	19"								SAND - DENSE, DK. BROWN, fine to V. COARSE
44										GRAINED, POORLY SORTED ROUNDED,
46										CLAYEY, SILTY W/SOME GRANULE
48										TO MED. PEBBLE GRAVEL
50										
52	↕	19"								SAND - DENSE, DK. BROWN, fine to V. COARSE
54										GRAINED, POORLY SORTED ROUNDED,
56										CLAYEY, SILTY W/GRANULE TO MED
58										PEBBLE GRAVEL.
60										
62										
64										
66										
68										
70										
72							↓	↓		
74									SP	
76										
78									CL	CLAY - STIFF, GRAY, MED. PLASTIC, W/FINE
80										PEBBLE GRAVELS SAND; (SILTY)
										CLAY - HARD, GRAY, HIGH PLASTIC
										(BOOTLEGGER)
										TD 78ft
										WELL SET @ 40ft

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

MONITOR WELL INFORMATION SHEET

GROUND SURFACE ELEVATION 1737

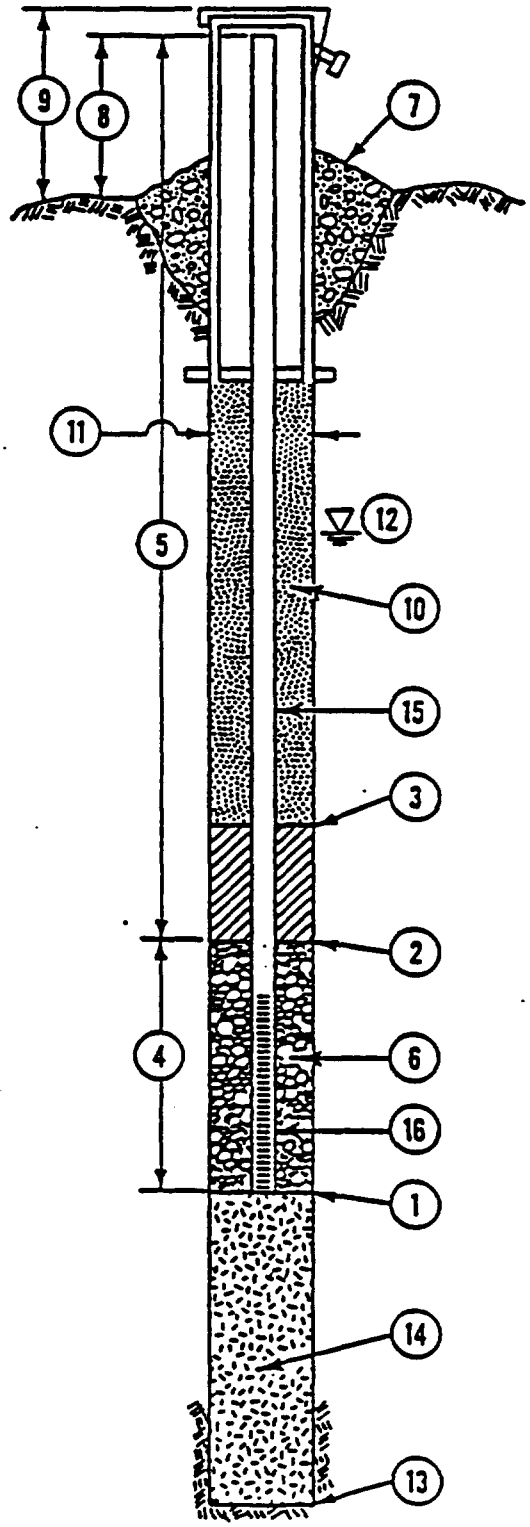
TOP OF WELL CASING ELEVATION 1746.5

JOB NUMBER 1016-265

BORING NUMBER GW3-A

DATE 9/12/86

LOCATION Elmendorf AFB



1. DEPTH TO BOTTOM OF WELL POINT OR SLOTTED PIPE 33.0 FEET.*
2. DEPTH TO BOTTOM OF SEAL (IF INSTALLED) 33.0 FEET.*
3. DEPTH TO TOP OF SEAL (IF INSTALLED) 21.0 FEET.*
4. LENGTH OF WELL SCREEN 10 FEET. SLOT SIZE 0.010.
5. TOTAL LENGTH OF PIPE 33.95 FEET AT 2 INCH DIAMETER.
6. TYPE OF PACK AROUND WELL POINT OR SLOTTED PIPE sand.
7. CONCRETE CAP. (YES) NO (CIRCLE ONE)
8. HEIGHT OF WELL CASING ABOVE GROUND 0.45 FEET.
9. PROTECTIVE CASING? (YES) NO (CIRCLE ONE) HEIGHT ABOVE GROUND 1.55 FEET. LOCKING CAP? (YES) NO (CIRCLE ONE)
10. TYPE OF UPPER BACKFILL cement-bentonite grout
11. BOREHOLE DIAMETER 9 INCHES.
12. DEPTH TO GROUND WATER 25.0 FEET.*
13. TOTAL DEPTH OF BOREHOLE 35.0 FEET.*
14. TYPE OF LOWER BACKFILL —.
15. PIPE MATERIAL PVC.
16. SCREEN MATERIAL PVC.

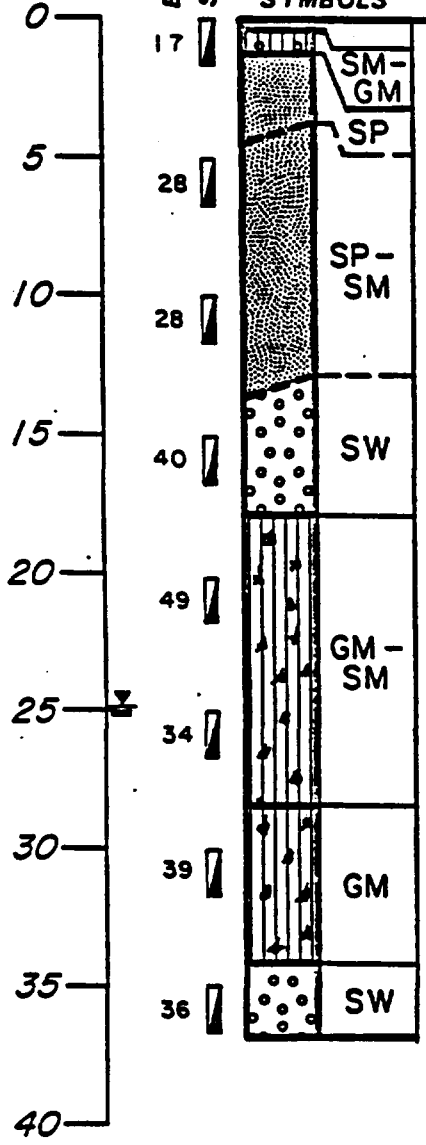
*(DEPTH FROM GROUND SURFACE)

MONITOR WELL INSTALLATION DETAILS

Dames & Moore

BORING GW-3A

SURFACE ELEVATION 176.70



SYMBOLS	DESCRIPTIONS	HNU READING
SM-GM	2 INCHES TOPSOIL WITH ROOTLETS BROWN SILT WITH SOME SAND AND GRAVEL	0
SP	BROWN FINE TO MEDIUM SAND WITH TRACE TO SOME GRAVEL	
	GRADES TO SOME GRAVEL AND TRACE OF SILT	0
SP-SM		0
SW	BROWN AND GRAY FINE TO COARSE SAND WITH FINE TO COARSE GRAVEL AND TRACE OF SILT	0
GM-SM	BROWN SANDY GRAVEL WITH SOME SILT	0
		0
GM	BROWNISH-GRAY SANDY GRAVEL WITH SOME GRAY SILT, BLACK "GLOBS", SOLUBLE IN WATER, NO ODOR, IN BOTTOM OF SAMPLE	0
SW	BROWN FINE TO COARSE SAND WITH FINE TO COARSE GRAVEL	0

BORING COMPLETED AT A DEPTH OF 36.5 FEET ON 9/12/86.
WATER ENCOUNTERED AT A DEPTH OF 25.0 FEET
WHILE DRILLING.

LOG OF BORING

PLATE D-8

PIEZOMETER DETAIL INFORMATION SHEET

GROUND SURFACE ELEVATION —

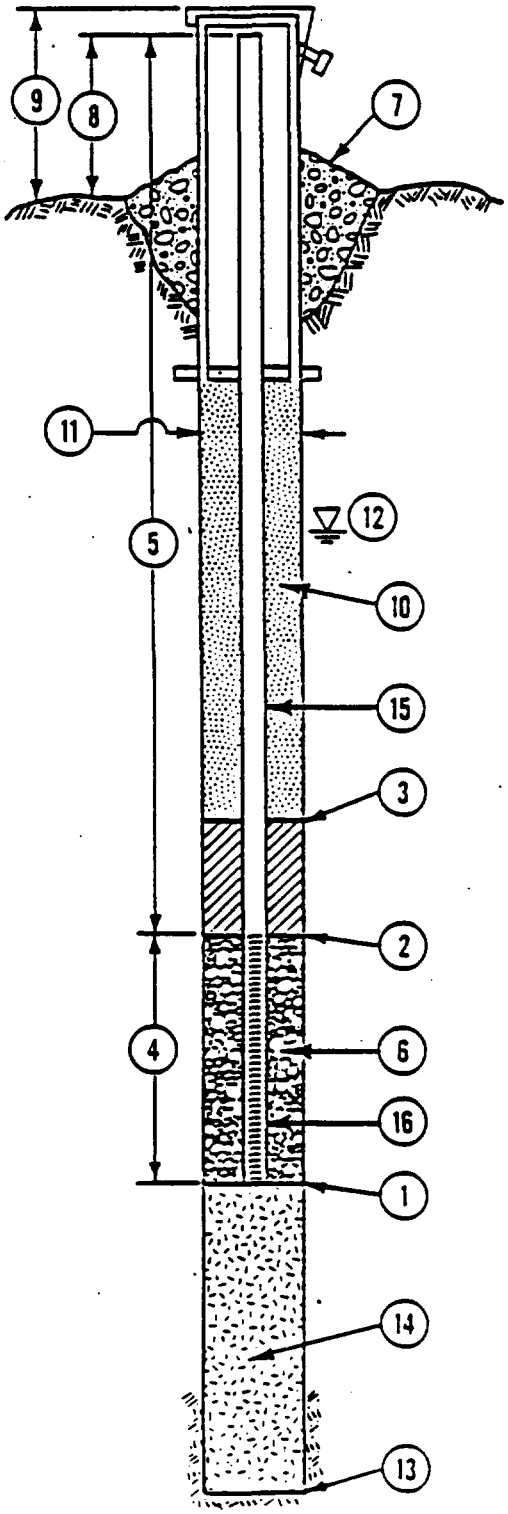
TOP OF WELL CASING ELEVATION —

JOB NUMBER 1016-200

BORING NUMBER W-9

DATE 6/18/84

LOCATION Elmendorf



(1) DEPTH TO BOTTOM OF WELL POINT OR SLOTTED PIPE 36 FEET.*

(2) DEPTH TO BOTTOM OF SEAL (IF INSTALLED) 10 FEET.*

(3) DEPTH TO TOP OF SEAL (IF INSTALLED) 5 FEET.*

(4) LENGTH OF WELL SCREEN 25 FEET.
SLOT SIZE .01.

(5) TOTAL LENGTH OF PIPE 12 FEET AT 2 INCH DIAMETER.

(6) TYPE OF PACK AROUND WELL POINT OR SLOTTED PIPE natural sand

(7) CONCRETE CAP. (YES) NO (CIRCLE ONE)

(8) HEIGHT OF WELL CASING ABOVE GROUND 1.25 FEET.

(9) PROTECTIVE CASING? (YES) NO (CIRCLE ONE)
HEIGHT ABOVE GROUND — FEET.
LOCKING CAP? (YES) NO (CIRCLE ONE)

(10) TYPE OF UPPER BACKFILL cement

(11) BOREHOLE DIAMETER 8 INCHES.

(12) DEPTH TO GROUND WATER 22 FEET.*

(13) TOTAL DEPTH OF BOREHOLE 42 FEET.*

(14) TYPE OF LOWER BACKFILL natural sand

(15) PIPE MATERIAL PVC, sched-40

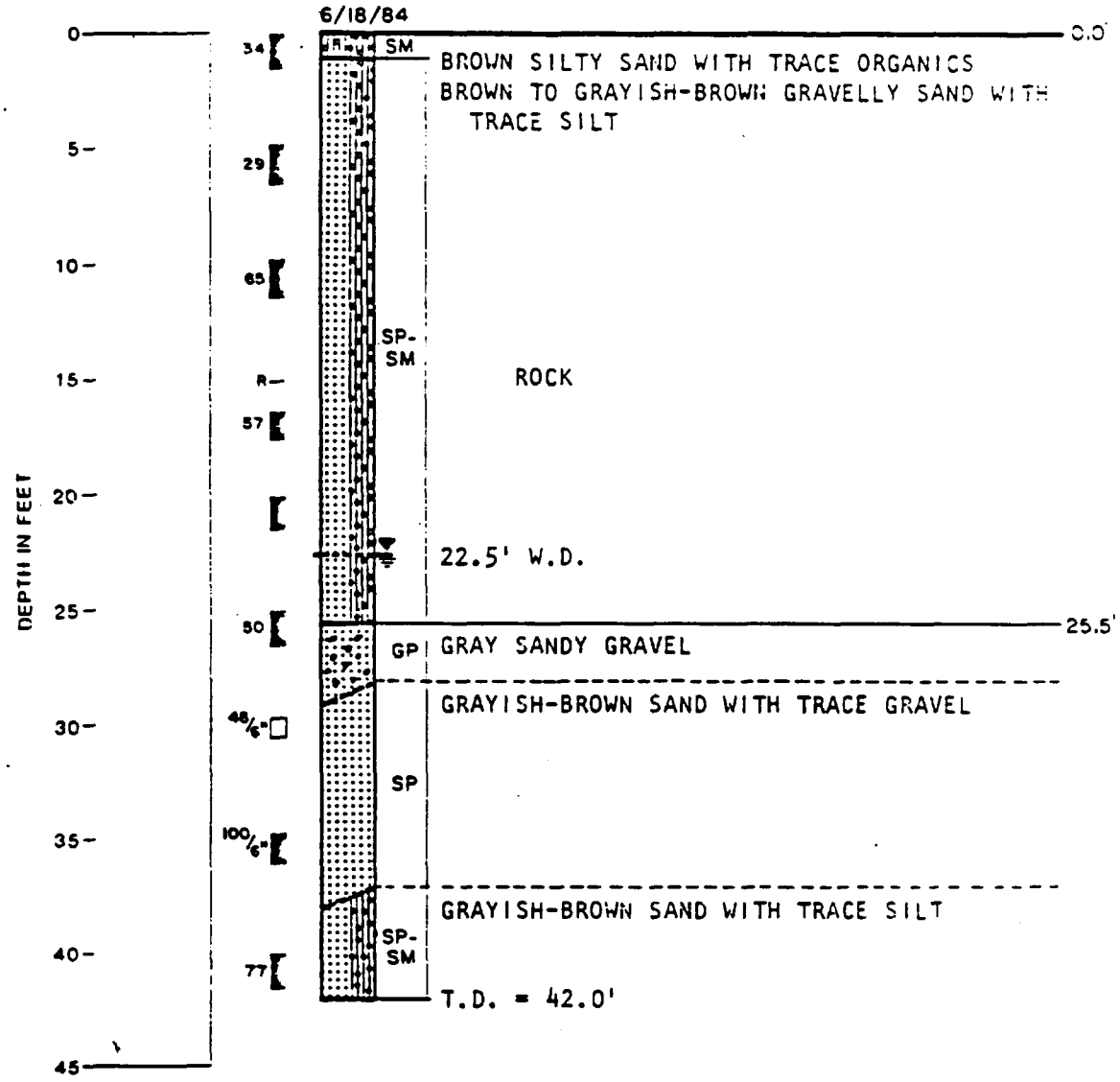
(16) SCREEN MATERIAL PVC - sched - 40

*(DEPTH FROM GROUND SURFACE)

PIEZOMETER INSTALLATION DETAILS

Dames & Moore

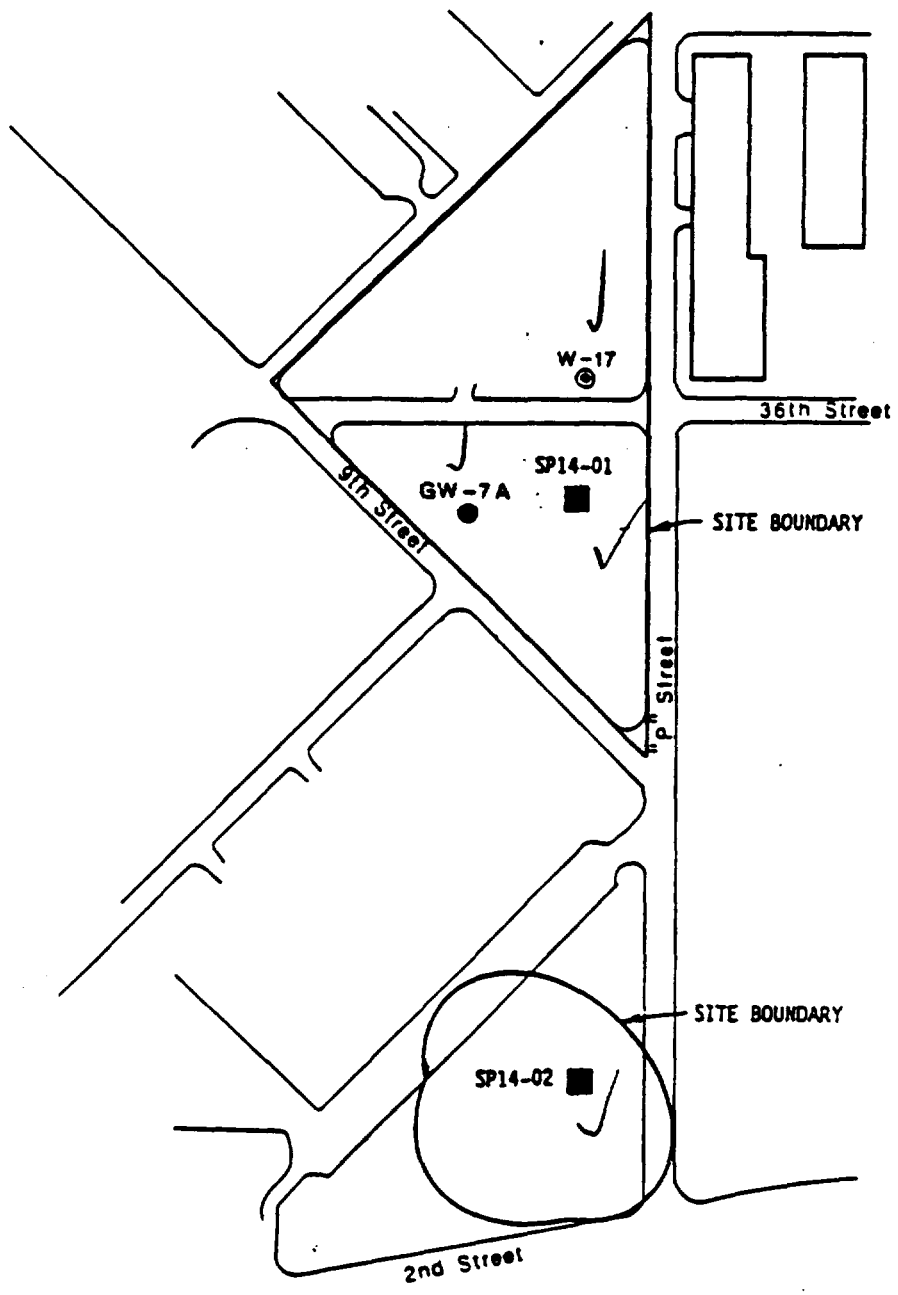
ELMENDORF AFB
BORING W-9



LOG OF BORING

Dames & Moore

PLATE C-13



Legend:

W-17 — Monitoring Well Location, Phase II, Stage 1

GW-7A — Monitoring Well Location, Phase II, Stage 2

SP14-01 — Monitoring Well Location Stage 3

5549 LOCATION MAP
SITE SP-14

IRP Stage 3 RI/FS
Elmendorf AFB, AK

Figure
4.2.17.1

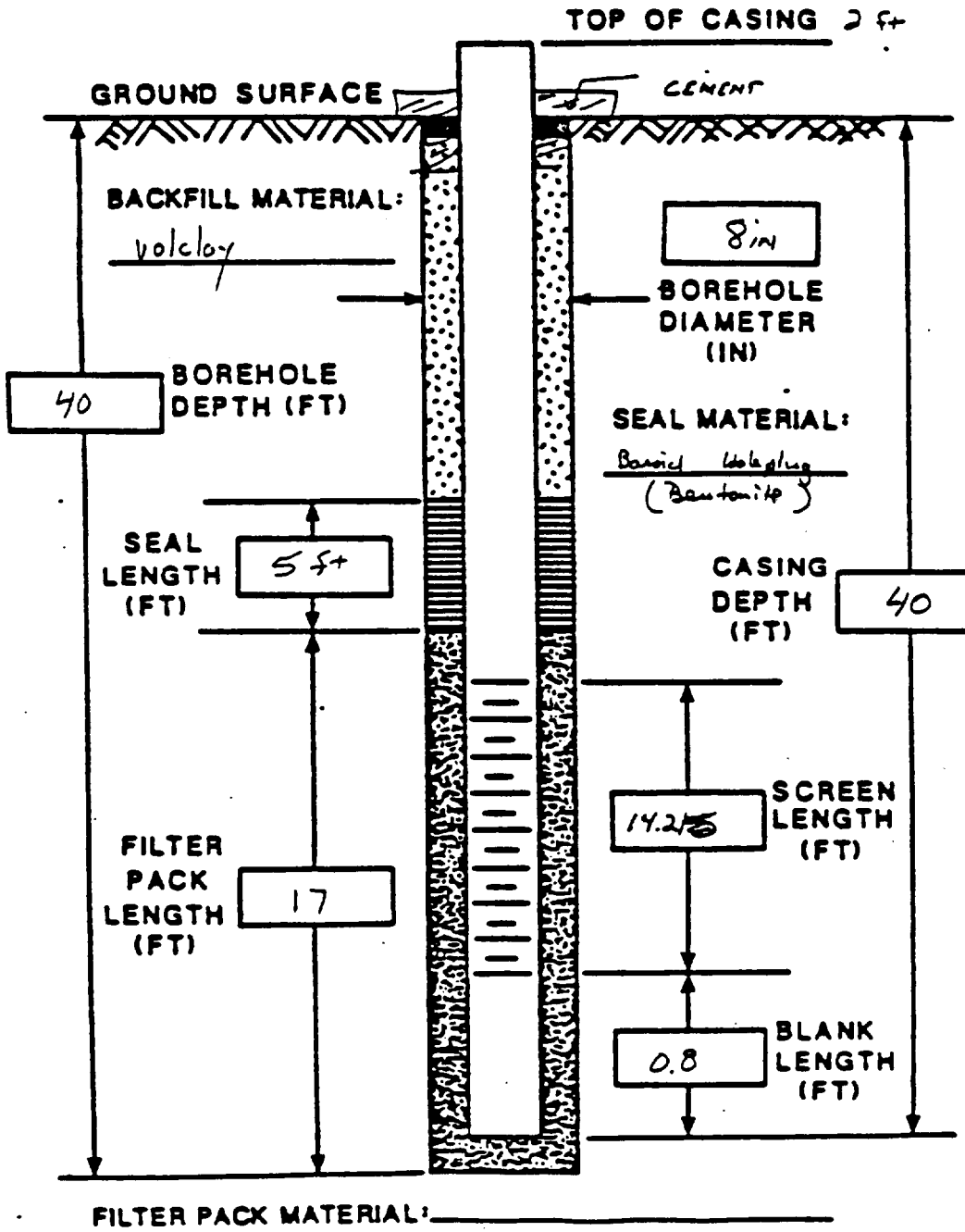
5549

WELL COMPLETION INFORMATION

INSTALLATION ID ELM 0687
LOCATION ID SP 14-01 (096)
WELL OWNER USAF
WELL TYPE CLASS MNW
FORMATION OF COMPLETION SANDY GRAVEL
LOCATION TYPE WL
INSTALLATION DATE 7/28/88
INSTALLER Dugan
WELL COMPLETION METHOD GS
ZONE OF COMPLETION A

SEAL END DEPTH (FT) _____
MEAS. POINT ELEV. (FTMSL) _____
CASING DEPTH (FT) 40
CASING DIAMETER (IN) 2 IN ID
CASING MATERIAL PVC
FILTER PACK LENGTH (FT) 17
SCREEN BEGIN. DEPTH (FT) 23-40
SCREEN LENGTH (FT) 15 small
SCREEN SLOT SIZE (IN) .02 in

REMARKS Casing stickup = 2 ft above ground surface
6 in steel protective overcasing at surface



WELL TYPE CLASSIFICATIONS (WTCODE)
- MNW - MONITORING WELL
- PRW - PRODUCTION WELL
- TST - TEST WELL
- WSW - WATER SUPPLY WELL

CASING MATERIAL (CMACODE)
- ABS - ABS
- BRK - BRICK
- CBS - CARBON STEEL
- CNC - CONCRETE
- COP - COPPER
- FBG - FIBERGLASS
- GLS - GALVANIZED STEEL
- WRI - WROUGHT IRON
- SLS - STAINLESS STEEL
- LCS - LOW CARBON STEEL
- M - OTHER METAL
- TFL - TEFLON
- PLY - POLYPROPYLENE
- PVC - PVC
- RST - ROCK OR STONE
- STL - STEEL
- TIL - TILE
- COS - COATED STEEL
- WD - WOOD

ZONE OF COMPLETION (GZCODE)
- A - AQUIFER
- C - CONFINING LAYER

WELL COMPLETION METHODS: (WCMCODE)
- C - POROUS CONCRETE
- GP - GRAVEL PACK W/PERF.
- GS - GRAVEL PACK W/S
- H - HORIZONTAL GALLE.
- OE - OPEN END
- P - PERFORATED OR SLOT
- S - SCREEN
- SP - SAND POINT
- W - WALLED OR SHORED
- OP - OPEN

BOREHOLE LOG (SOIL)

INSTALLATION ID ICM 0687 LOCATION ID SP 14 - 01 (096)
LOCATION TYPE BH LOCATION PROXIMITY I
COORDINATES (FT): NORTH _____ EAST _____
SURFACE ELEVATION (FTMSL) _____
DRILLER CODE _____ CONSTRUCTION METHOD HS
DATE STARTED 7/28/88 DATE COMPLETED 7/28/88
BOREHOLE DEPTH (FT.) 40 ft BOREHOLE DIAM. (IN) 8 in

GROUNDWATER LEVELS		
DATE	TIME	DEPTH (FT)
7/28/88	1415	29.5 ft below ground surface
7/28/88	1550	31.8 TOC

CASING stickup = 2 ft

LOCATION DESCRIPTION
64 ft south of 36th street
78 ft west of P street
in grassy area S.W. of
Bldg 11-110

MAP REFERENCE ID _____ LOCATION CROSS REFERENCE _____

LITHOLOGIC LOG LOGGER CODE _____

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
1230 1	↓	↓		X			0	X	ML	0.2 - 0.5 ft: organic silt, grass
3									GW	1 - 13 ft: Gray-brown sandy
5	↓	↓	↓	U	096 0001		2.5	N		gravel, damp, dense
7										
9										
11	↓	↓		U			15	N		
13									GW	13 - 18 ft: brown sandy
1330 15	↓	↓		U			0	N		gravel, trace silt, moist,
17										very dense
19									GW	18 - 40 ft: gray sandy
1345 21	↓	↓		U			0	N		gravel, moist, very dense
23										
25	↓	↓		U			0	N		
27										
29										- wet at 29.5 ft

LOCATION PROXIMITY (LPRCODE)
I - WITHIN INSTALLATION O - OUTSIDE INSTALLATION

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

CONSTRUCTION METHODS (CMCCODE)
AR - AIR ROTARY
B - BORED OR AUGERED
C - CABLE-TOOL
D - DUG
HS - HOLLOW STEM AUGER
J - JETTED
P - AIR-PERCUSSION
RM - REVERSE ROTARY, MUD
T - TRENCHING
V - DRIVEN
W - DRIVE AND WASH

SAMPLE METHODS (SSMCODE)
A - AUGER CUTTINGS
S - 2" O.D. 1.38" I.D. DRIVE SAMPLE
U - 3" O.D. 2.42" I.D. TUBE SAMPLE
T - 3" O.D. THIN-WALLED SHELBY TUBE

BOREHOLE LOG (SOIL)

INSTALLATION ID Elm 0687
LOCATION ID SP14 - 01 (096)

DATE STARTED 7/28/88

LITHOLOGIC LOG

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
1410 31	↓	↓	↓	C	096 0002		25	Yes	GW	(continued from page 1)
33										
35										
37										
39	I	I								
41										T.D. @ 40 ft
										Installed 2in I.D
										Monitoring well

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

WELL COMPLETION INFORMATION

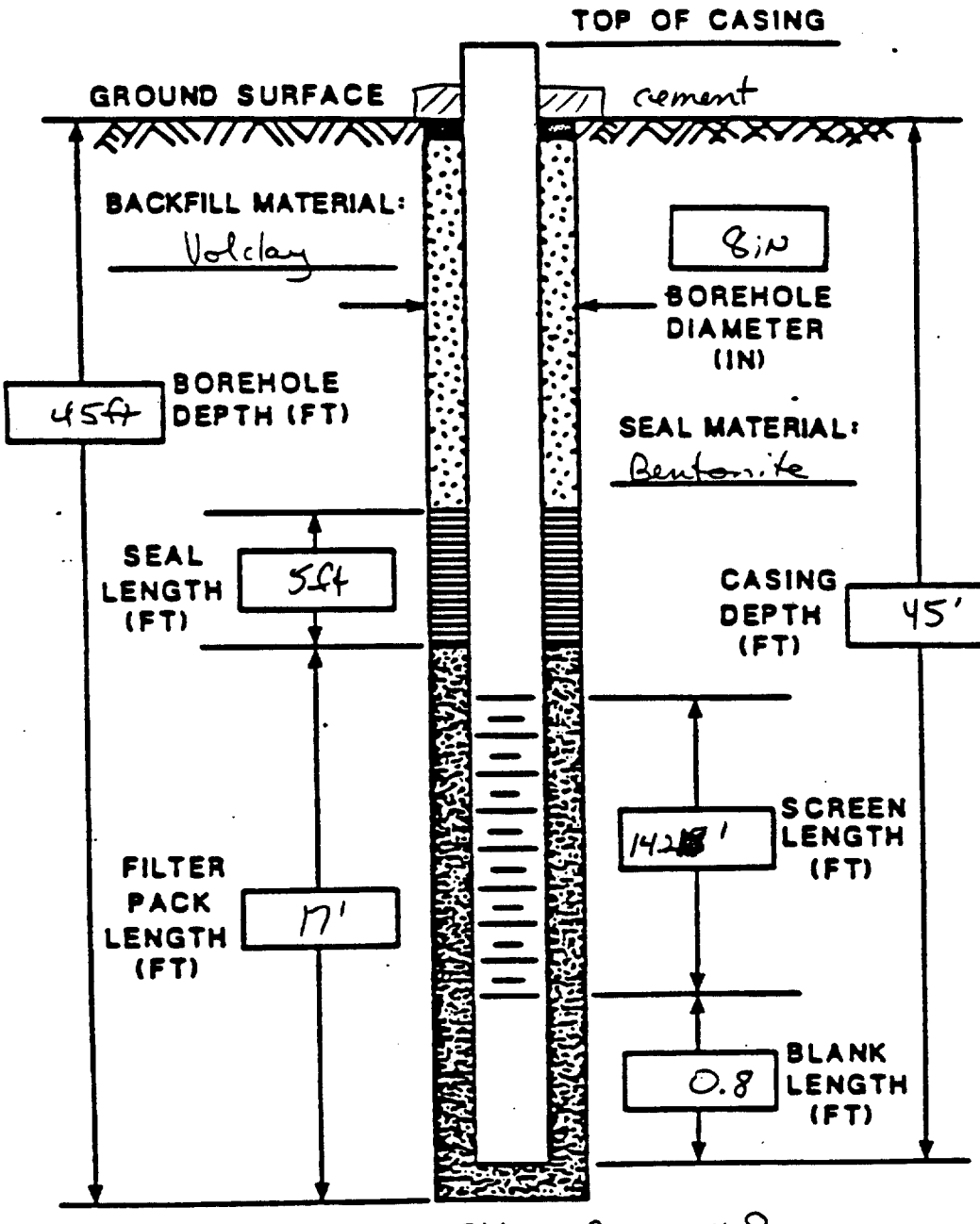
INSTALLATION ID ELM
LOCATION ID SP-14-2 (097)
WELL OWNER USAF
WELL TYPE CLASS. MNW
FORMATION OF COMPLETION Sandy Gravel

LOCATION TYPE WL
INSTALLATION DATE 7/29/88
INSTALLER SWB
WELL COMPLETION METHOD GS
ZONE OF COMPLETION A

SEAL END DEPTH (FT) _____
MEAS. POINT ELEV. (FTMSL) _____
CASING DEPTH (FT) 45'
CASING DIAMETER (IN) 2 IN ID
CASING MATERIAL _____

FILTER PACK LENGTH (FT) 17 ft
SCREEN BEGIN. DEPTH (FT) 30 ft
SCREEN LENGTH (FT) 15 ft ommf
SCREEN SLOT SIZE (IN) 0.02 in

REMARKS _____



WELL TYPE CLASSIFICATIONS (WTCODE)
- MNW - MONITORING WELL
- PRW - PRODUCTION WELL
- TST - TEST WELL
- WSW - WATER SUPPLY WELL

CASING MATERIAL (CMACODE)
- ABS - ABS
- BRK - BRICK
- CBS - CARBON STEEL
- CNC - CONCRETE
- COP - COPPER
- FBG - FIBERGLASS
- GLS - GALVANIZED STEEL
- WRI - WROUGHT IRON
- SLS - STAINLESS STEEL
- LCS - LOW CARBON STEEL
- M - OTHER METAL
- TFL - TEFLON
- PLY - POLYPROPYLENE
- PVC - PVC
- RST - ROCK OR STONE
- STL - STEEL
- TIL - TILE
- COS - COATED STEEL
- WD - WOOD

ZONE OF COMPLETION (GZCCODE)
- A - AQUIFER
- C - CONFINING LAYER

WELL COMPLETION METHODS: (WCMCODE)
- C - POROUS CONCRETE
- GP - GRAVEL PACK W/PERF.
- GS - GRAVEL PACK W/SCREEN
- H - HORIZONTAL GALLERY
- OE - OPEN END
- P - PERFORATED OR SLOTTE
- S - SCREEN
- SP - SAND POINT
- W - WALLED OR SHORED
- OP - OPEN

BOREHOLE LOG (SOIL)

INSTALLATION ID ELM 0687 LOCATION ID SP-14-2 (097)
LOCATION TYPE BH LOCATION PROXIMITY I
COORDINATES (FT): NORTH _____ EAST _____
SURFACE ELEVATION (FTMSL) _____
DRILLER CODE _____ CONSTRUCTION METHOD HS
DATE STARTED 7/29/88 DATE COMPLETED 7/29/88
BOREHOLE DEPTH (FT.) 45 ft BOREHOLE DIAM. (IN) 8 in

GROUNDWATER LEVELS		
DATE	TIME	DEPTH (FT)
7/28/88	1120	34' 5" (ground)
7/29/88	1310	33'11" (ground)

LOCATION DESCRIPTION
65ft west of P Street
130ft ~~west~~ north of 2nd St.
In grassy area SW of
Dining Hall

MAP REFERENCE ID _____ LOCATION CROSS REFERENCE _____

LITHOLOGIC LOG LOGGER CODE SWB

	DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
	1	↓	↓		A			0	N	ML	0-6ft: organic silt, grass,
	3										roots
0920	5	T	T		U	∅	—	0	N	ML	1-6ft: sandy silt, dry
	7	↓	↓								dense, brown
	9									ML	6-15ft: brown silt with
0940	11	↓	↓	↓	U	001/002	—	0	N		trace sand, damp,
	13										very dense
1000	15	T	T		U		—	0	N	GW	15-40ft: Brown-grey sandy
	17 ~~19~~										gravel with some
	19 ~~21~~										silt, damp.
1 1-	21 ~~23~~	↓	↓		U		—	0	N		
	23 ~~25~~										
1030	25 ~~27~~	T	T		U		—	0	N		
	27 ~~29~~	↓	↓								
	29										

LOCATION PROXIMITY (LPRCODE)
I - WITHIN INSTALLATION O - OUTSIDE INSTALLATION

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

CONSTRUCTION METHODS (CMCCODE)
- AR - AIR ROTARY
- B - BORED OR AUGERED
- C - CABLE-TOOL
- D - DUG
- HS - HOLLOW STEM AUGER
- J - JETTED
- P - AIR-PERCUSSION
- RM - REVERSE ROTARY, MUD
- T - TRENCHING
- V - DRIVEN
- W - DRIVE AND WASH

SAMPLE METHODS (SSMCODE)
- A - AUGER CUTTINGS
- S - 2" O.D. 1.38" I.D. DRIVE SAMPLE
- U - 3" O.D. 2.42" I.D. TUBE SAMPLE
- T - 3" O.D. THIN-WALLED SHELBY TUBE

BOREHOLE LOG (SOIL)

INSTALLATION ID Elm
LOCATION ID SP-14-2 (097)
DATE STARTED 7/28/88

LITHOLOGIC LOG

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
31	↓	↓	↓		0900	-	0	N		
33										wet at 34ft
35										
37										
39										
41	↓	↓				-	0	N		40-45ft: Brown-grey sandy gravel, several large cobbles, wet
43										
45	↓	↓				-	0	N		T.D. = 45ft
										Installed 2in I.D.
										Monitoring well

CLASS/CODE - SEE SRTCODE LIST. THEN APPROPRIATE CODE LIST

MONITOR WELL INFORMATION SHEET

GROUND SURFACE ELEVATION 179.0

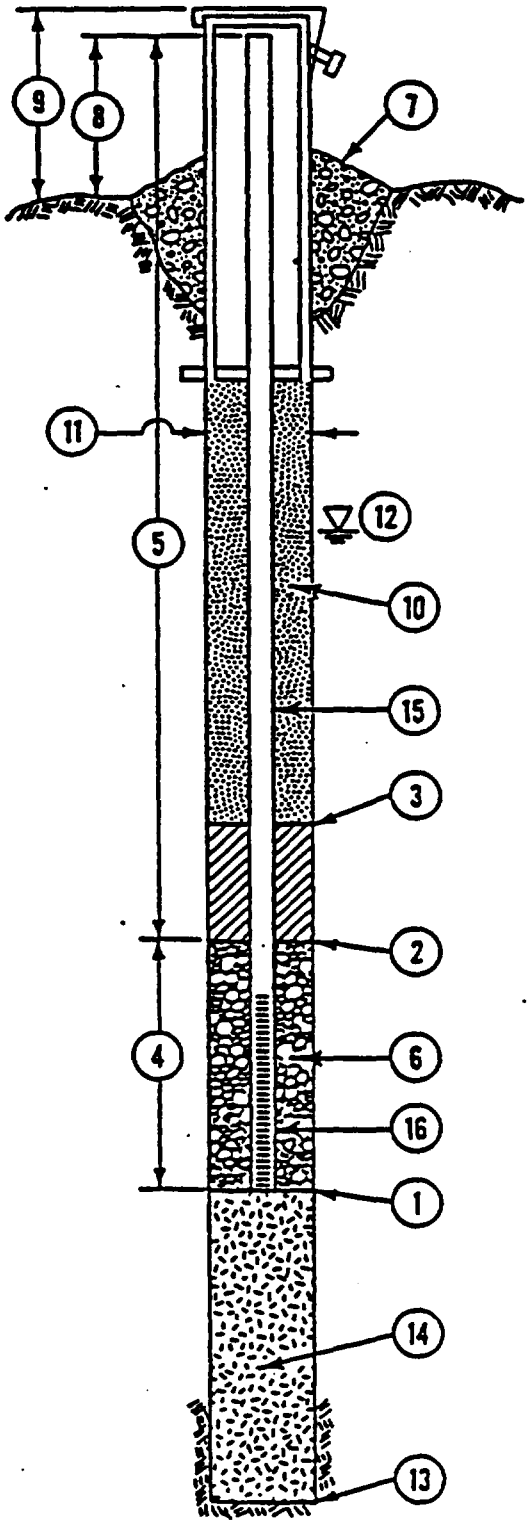
TOP OF WELL CASING ELEVATION 181.12

JOB NUMBER 1016-265

BORING NUMBER GW7-A

DATE 9/10/86

LOCATION Elmendorf AFB



1. DEPTH TO BOTTOM OF WELL POINT OR SLOTTED PIPE 40.0 FEET.*
2. DEPTH TO BOTTOM OF SEAL (IF INSTALLED) 30.0 FEET.*
3. DEPTH TO TOP OF SEAL (IF INSTALLED) 28.0 FEET.*
4. LENGTH OF WELL SCREEN 10 FEET. SLOT SIZE 0.010.
5. TOTAL LENGTH OF PIPE 42.19 FEET AT 2 INCH DIAMETER.
6. TYPE OF PACK AROUND WELL POINT OR SLOTTED PIPE Sand.
7. CONCRETE CAP. (YES) NO (CIRCLE ONE)
8. HEIGHT OF WELL CASING ABOVE GROUND 2.19 FEET.
9. PROTECTIVE CASING? (YES) NO (CIRCLE ONE) HEIGHT ABOVE GROUND 2.40 FEET. LOCKING CAP? (YES) NO (CIRCLE ONE)
10. TYPE OF UPPER BACKFILL Cement-bentonite grout
11. BOREHOLE DIAMETER 8 INCHES.
12. DEPTH TO GROUND WATER 31.0 FEET.*
13. TOTAL DEPTH OF BOREHOLE 40.0 FEET.*
14. TYPE OF LOWER BACKFILL —.
15. PIPE MATERIAL PVC.
16. SCREEN MATERIAL PVC.

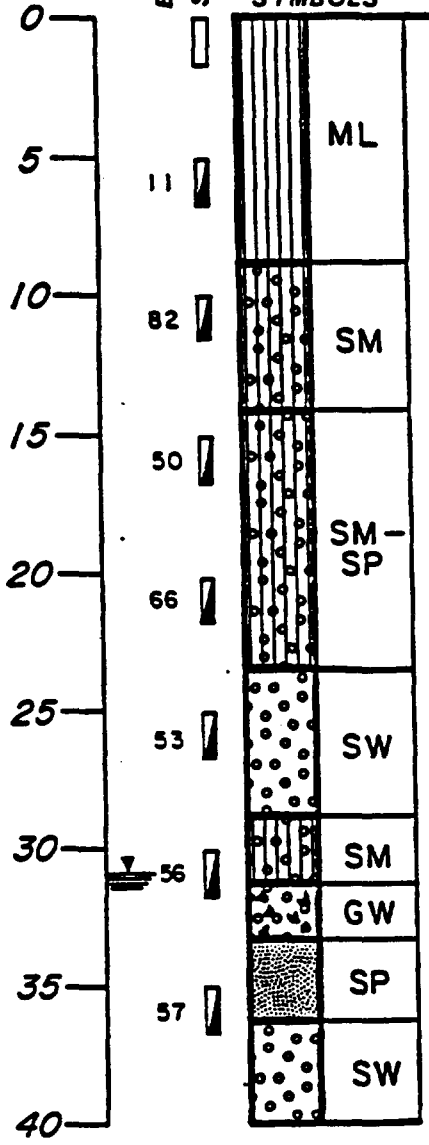
*(DEPTH FROM GROUND SURFACE)

MONITOR WELL INSTALLATION DETAILS

Dames & Moore

BORING GW-7A

SURFACE ELEVATION 179.00



SYMBOLS	DESCRIPTIONS	HNU READING
ML	3 INCHES TOPSOIL DARK BROWN TO BROWN CLAYEY SILT WITH SOME GRAVEL	0
SM	GRAYISH-BROWN SAND WITH GRAVEL AND SILT	0
SM-SP	BROWN FINE TO COARSE SAND WITH TRACE OF GRAVEL AND SILT	0
		0
SW	BROWNISH-GRAY MEDIUM TO COARSE SAND WITH FINE TO COARSE GRAVEL	0
SM	GRAYISH-BROWN MEDIUM TO COARSE SAND, DRY	
	1 INCH BLACK MEDIUM TO COARSE SAND - GREASY FEEL, LOOKS LIKE OIL BUT NO ODOR, WATER SOLUBLE, HNU = 0	0
GW	GRAY FINE TO COARSE GRAVEL WITH SAND	
SP	BROWN MEDIUM TO COARSE SAND	0
SW	BROWN MEDIUM TO COARSE SAND WITH FINE TO MEDIUM GRAVEL AND TRACE OF SILT	

BORING COMPLETED AT A DEPTH OF 40.0 FEET ON 9/11/86.
WATER ENCOUNTERED AT A DEPTH OF 31.0 FEET WHILE DRILLING.

LOG OF BORING

PLATE D-12

PIEZOMETER DETAIL INFORMATION SHEET

GROUND SURFACE ELEVATION _____

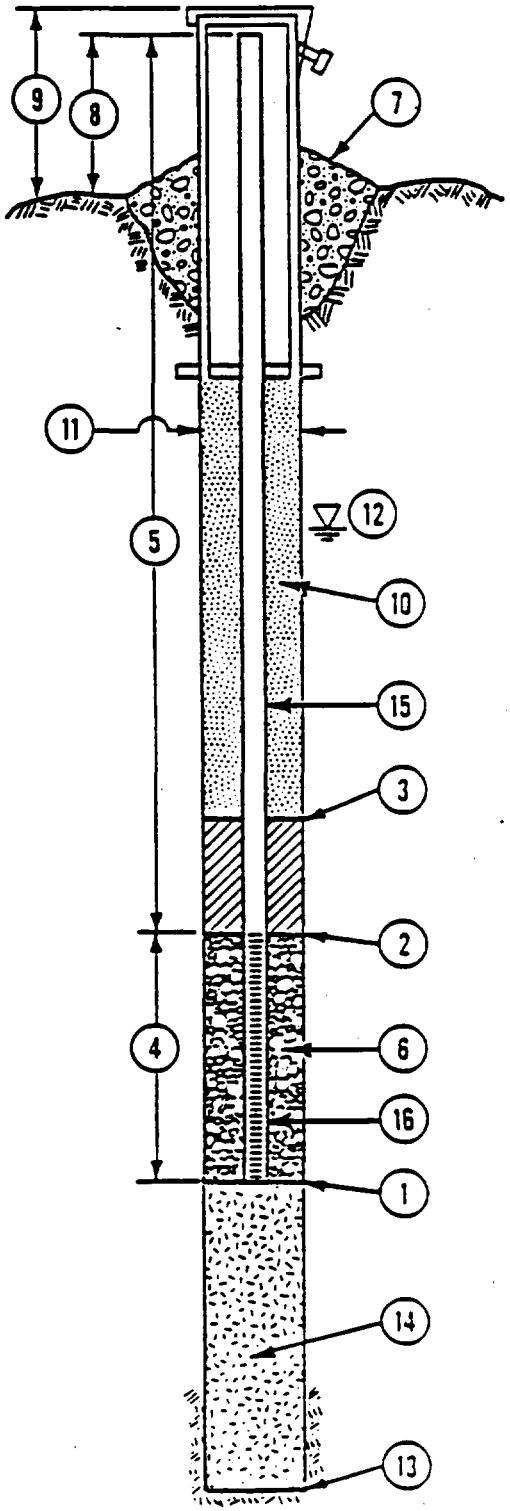
TOP OF WELL CASING ELEVATION _____

JOB NUMBER 1016-200

BORING NUMBER W-17

DATE 6/19/84

LOCATION Emeryville-F



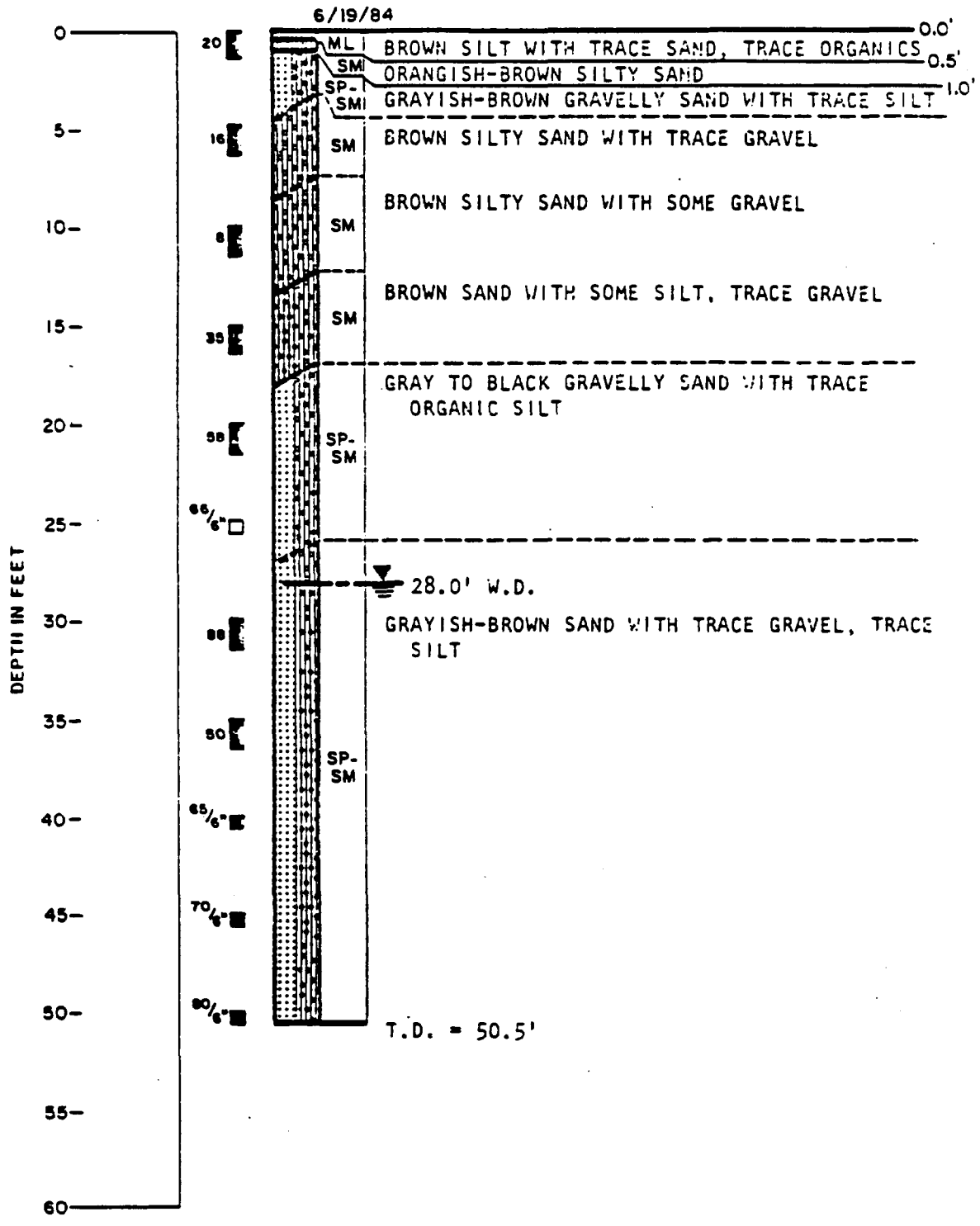
1. DEPTH TO BOTTOM OF WELL POINT OR SLOTTED PIPE 50 FEET. *
2. DEPTH TO BOTTOM OF SEAL (IF INSTALLED) 23 FEET. *
3. DEPTH TO TOP OF SEAL (IF INSTALLED) 18 FEET. *
4. LENGTH OF WELL SCREEN 27 FEET. SLOT SIZE .01.
5. TOTAL LENGTH OF PIPE 24 FEET AT 2 INCH DIAMETER.
6. TYPE OF PACK AROUND WELL POINT OR SLOTTED PIPE native sand
7. CONCRETE CAP. (YES) NO (CIRCLE ONE)
8. HEIGHT OF WELL CASING ABOVE GROUND 1.00 FEET.
9. PROTECTIVE CASING? (YES) NO (CIRCLE ONE)
   HEIGHT ABOVE GROUND 1.25 FEET.
   LOCKING CAP? (YES) NO (CIRCLE ONE)
10. TYPE OF UPPER BACKFILL cement
11. BOREHOLE DIAMETER 8 INCHES.
12. DEPTH TO GROUND WATER 28 FEET. *
13. TOTAL DEPTH OF BOREHOLE 50 FEET. *
14. TYPE OF LOWER BACKFILL none.
15. PIPE MATERIAL PVC - Sch 40
16. SCREEN MATERIAL PVC - Sch 40

*(DEPTH FROM GROUND SURFACE)

PIEZOMETER INSTALLATION DETAILS

Dames & Moore

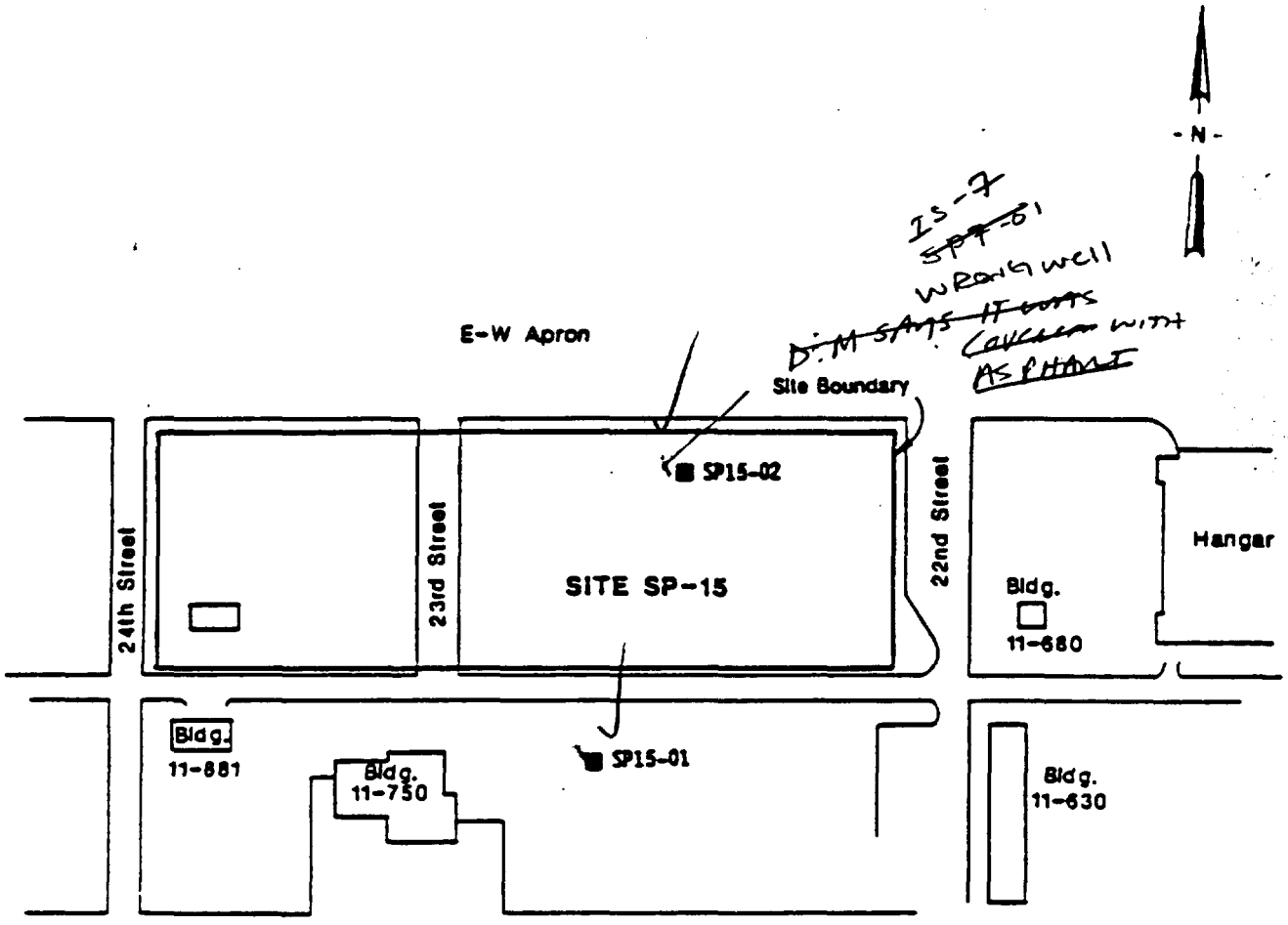
ELMENDORF AFB
BORING W-17



LOG OF BORING

Dames & Moore

PLATE C-21



Legend:

Boring Number

Boring Completed as a Monitoring Well

SP15-01

SP15-01 Monitoring Well Location Stage 3

0 200 400ft

Scale

5550

LOCATION MAP
SITE SP-15

IRP Stage 3 RI/FS Elmendorf AFB, AK	Figure 4.2.18.1

5550

POL Spill

WELL COMPLETION INFORMATION

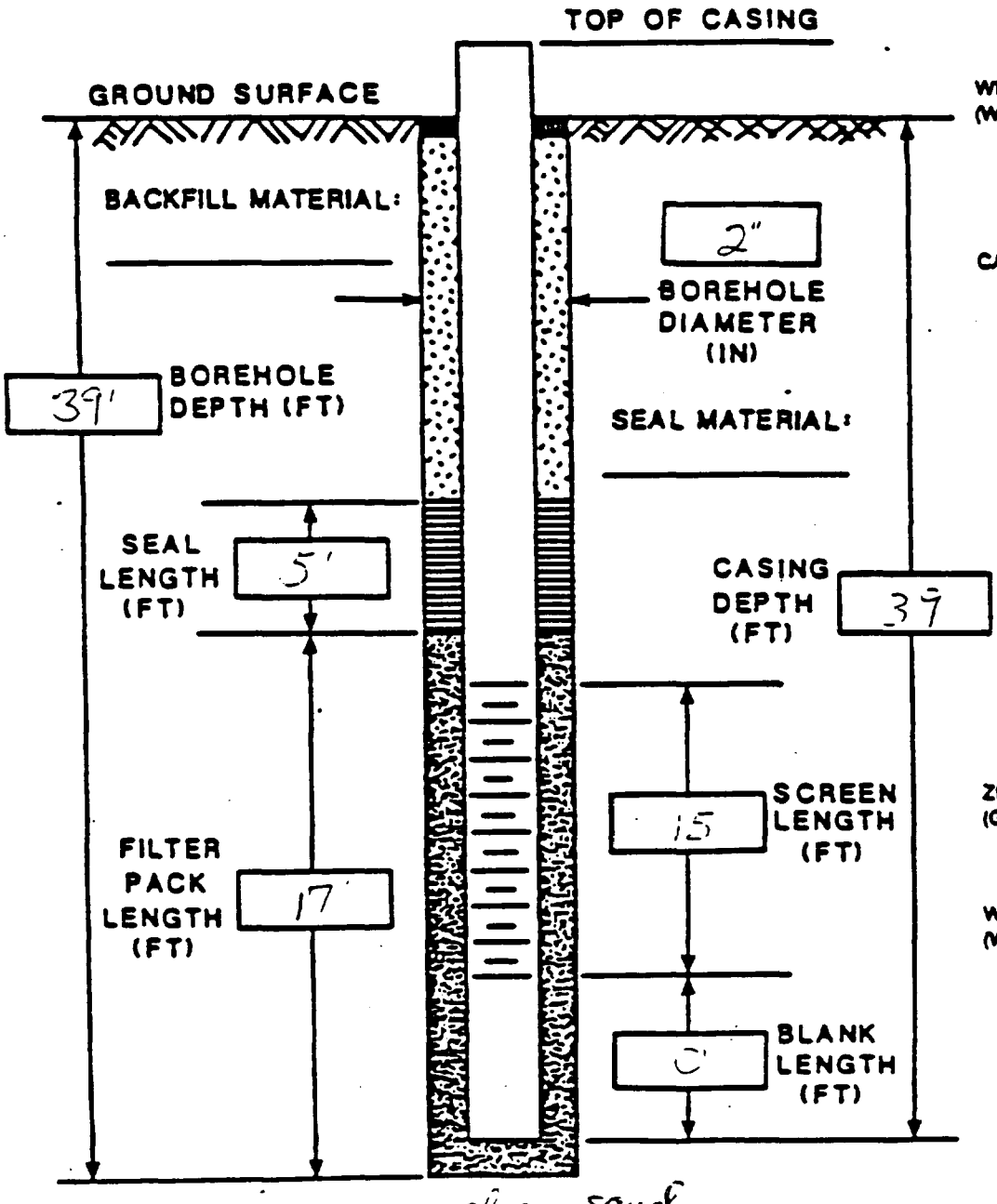
INSTALLATION ID ELM-0687
LOCATION ID SP15-1 (100)
WELL OWNER
WELL TYPE CLASS. MNW
FORMATION OF COMPLETION

LOCATION TYPE WL
INSTALLATION DATE July 17 1996
INSTALLER AMJ
WELL COMPLETION METHOD OS
ZONE OF COMPLETION

SEAL END DEPTH (FT) 22'
MEAS. POINT ELEV. (FTMSL)
CASING DEPTH (FT) 39'
CASING DIAMETER (IN) 2"
CASING MATERIAL PVC

FILTER PACK LENGTH (FT) 17'
SCREEN BEGIN. DEPTH (FT) 24'
SCREEN LENGTH (FT) 15'
SCREEN SLOT SIZE (IN)

REMARKS



WELL TYPE CLASSIFICATIONS (WTCCODE)
- MNW - MONITORING WELL
- PRW - PRODUCTION WELL
- TST - TEST WELL
- WSW - WATER SUPPLY WELL

CASING MATERIAL (CMACODE)
- ABS - ABS
- BRK - BRICK
- CBS - CARBON STEEL
- CNC - CONCRETE
- COP - COPPER
- FBG - FIBERGLASS
- GLS - GALVANIZED STEEL
- WRI - WROUGHT IRON
- SLS - STAINLESS STEEL
- LCS - LOW CARBON STEEL
- M - OTHER METAL
- TFL - TEFLON
- PLY - POLYPROPYLENE
- PVC - PVC
- RST - ROCK OR STONE
- STL - STEEL
- TIL - TILE
- COS - COATED STEEL
- WD - WOOD

ZONE OF COMPLETION (GZCCODE)
- A - AQUIFER
- C - CONFINING LAYER

WELL COMPLETION METHODS: (WCMCODE)
- C - POROUS CONCRETE
- GP - GRAVEL PACK W/PERF
- GS - GRAVEL PACK W/SC
- H - HORIZONTAL GALLERY
- OE - OPEN END
- P - PERFORATED OR SLOTT
- S - SCREEN
- SP - SAND POINT
- W - WALLED OR SHORED
- OP - OPEN

BOREHOLE LOG (SOIL)

INSTALLATION ID ELM-X-57 LOCATION ID SP15-1 (100)
LOCATION TYPE BH LOCATION PROXIMITY I
COORDINATES (FT): NORTH _____ EAST _____
SURFACE ELEVATION (FTMSL) _____
DRILLER CODE CME-55 CONSTRUCTION METHOD HS
DATE STARTED July 19 1988 DATE COMPLETED July 19 1988
BOREHOLE DEPTH (FT.) 30' BOREHOLE DIAM. (IN) 8"

GROUNDWATER LEVELS		
DATE	TIME	DEPTH (FT)
July 19 1988	1001	26' from surface

LOCATION DESCRIPTION

MAP REFERENCE ID _____ LOCATION CROSS REFERENCE _____

LITHOLOGIC LOG LOGGER CODE AW

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
1										silty gravel and sand
3										
5		24"		U	100/001		40	N	GW	clean sandy gravel - dry, brown
7	↓		↓							
9										
11	↓	12"			[illegible]			N	GW	[illegible]
13										
15		6"		U				N	GW	[illegible]
17	↓									
19										
21	↓	10"		U			4	N	GW	[illegible]
23										
25		18"		U	100/002		120	N	GW	[illegible]
27	↓		↓							
29										

LOCATION PROXIMITY (LPRCODE)
I - WITHIN INSTALLATION O - OUTSIDE INSTALLATION

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

CONSTRUCTION METHODS (CMCCODE)
- AR - AIR ROTARY
- B - BORED OR AUGERED
- C - CABLE-TOOL
- D - DUG
- HS - HOLLOW STEM AUGER
- J - JETTED
- P - AIR-PERCUSSION
- RM - REVERSE ROTARY, MUD
- T - TRENCHING
- V - DRIVEN
- W - DRIVE AND WASH

SAMPLE METHODS (SSMCODE)
- A - AUGER CUTTINGS
- S - 2" O.D. 1.38" I.D. DRIVE SAMPLE
- U - 3" O.D. 2.42" I.D. TUBE SAMPLE
- T - 3" O.D. THIN-WALLED SHELBY TUBE

BOREHOLE LOG (SOIL)

INSTALLATION ID ELM-06ST

LOCATION ID SP-5-1

DATE STARTED July 19 05

LITHOLOGIC LOG

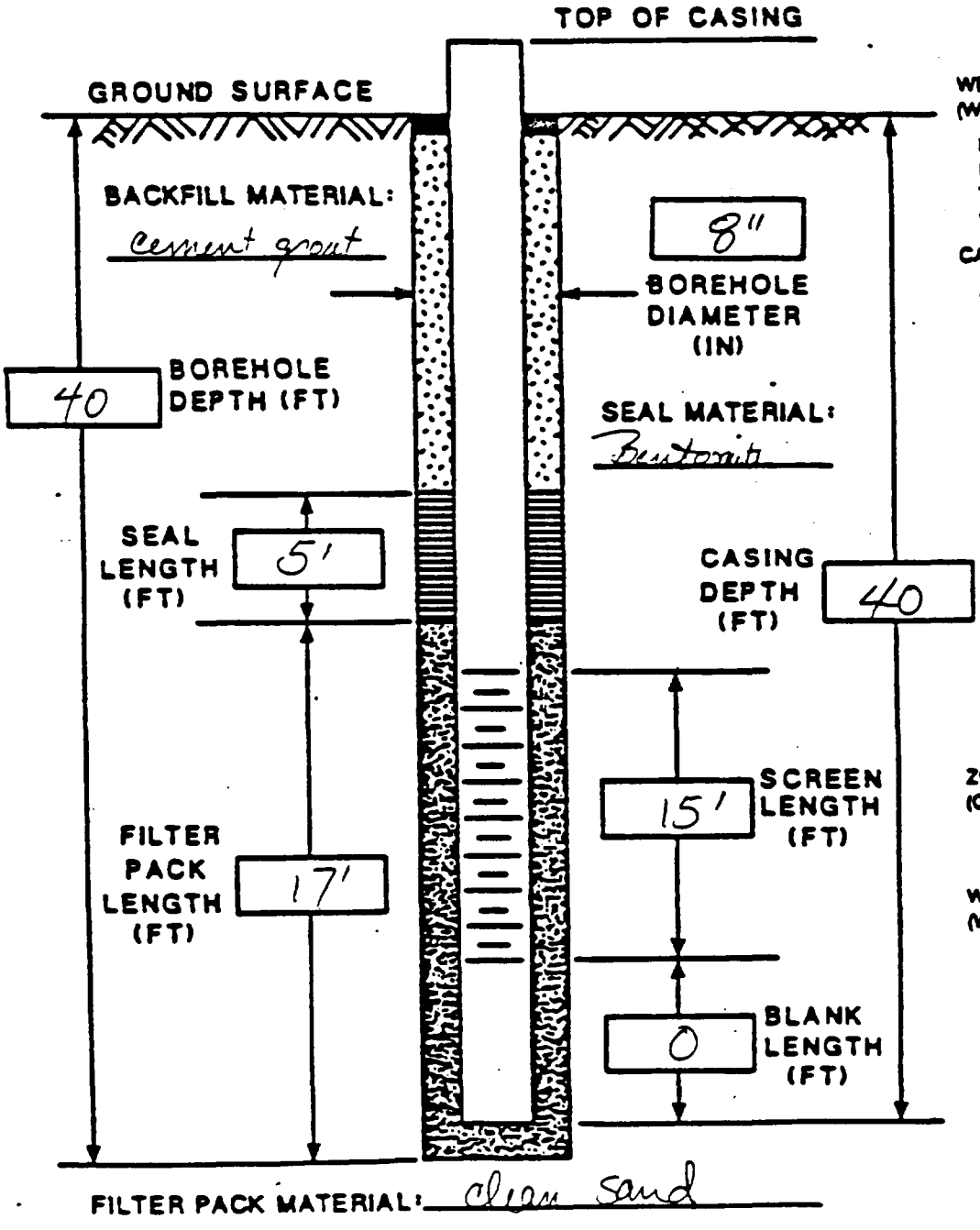
DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
31	↓	12"	-	4			2	N	SW/(GW)	brown gray sand & sandy gravel, slight wet
33										
35										
37										
39										TD @ 39 feet - completed
	TD									Hole as monitoring well

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

WELL COMPLETION INFORMATION

INSTALLATION ID ELM 0687
LOCATION ID SP15-2 (101)
WELL OWNER
WELL TYPE CLASS. MNW
FORMATION OF COMPLETION
LOCATION TYPE WL
INSTALLATION DATE July 21 1988
INSTALLER DW
WELL COMPLETION METHOD GS
ZONE OF COMPLETION

SEAL END DEPTH (FT) 23'
MEAS. POINT ELEV. (FTMSL)
CASING DEPTH (FT) 40'
CASING DIAMETER (IN) 2"
CASING MATERIAL PVC
FILTER PACK LENGTH (FT) 17'
SCREEN BEGIN. DEPTH (FT) 25'
SCREEN LENGTH (FT) 15'
SCREEN SLOT SIZE (IN)
REMARKS



WELL TYPE CLASSIFICATIONS (WTCCODE)
- MNW - MONITORING WELL
- PRW - PRODUCTION WELL
- TST - TEST WELL
- WSW - WATER SUPPLY WELL

CASING MATERIAL (CMACODE)
- ABS - ABS
- BRK - BRICK
- CBS - CARBON STEEL
- CNC - CONCRETE
- COP - COPPER
- FBG - FIBERGLASS
- GLS - GALVANIZED STEEL
- WRI - WROUGHT IRON
- SLS - STAINLESS STEEL
- LCS - LOW CARBON STEEL
- M - OTHER METAL
- TFL - TEFLON
- PLY - POLYPROPYLENE
- PVC - PVC
- RST - ROCK OR STONE
- STL - STEEL
- TIL - TILE
- COS - COATED STEEL
- WD - WOOD

ZONE OF COMPLETION (GZCCODE)
- A - AQUIFER
- C - CONFINING LAYER

WELL COMPLETION METHODS: (WCMCODE)
- C - POROUS CONCRETE
- GP - GRAVEL PACK W/PERF.
- GS - GRAVEL PACK W/SCREEN
- H - HORIZONTAL GALLERY
- OE - OPEN END
- P - PERFORATED OR SLOTTE
- S - SCREEN
- SP - SAND POINT
- W - WALLED OR SHORED
- OP - OPEN

BOREHOLE LOG (SOIL)

INSTALLATION ID ELM(0687) LOCATION ID SP15-2(101)
LOCATION TYPE BH LOCATION PROXIMITY I
COORDINATES (FT): NORTH _____ EAST _____
SURFACE ELEVATION (FTMSL) _____
DRILLER CODE CMG-SS CONSTRUCTION METHOD HS
DATE STARTED July 21, 1988 DATE COMPLETED July 21
BOREHOLE DEPTH (FT.) 40' BOREHOLE DIAM. (IN) 8"

GROUNDWATER LEVELS		
DATE	TIME	DEPTH (FT)
7/21/88	1125	27'5" surface

LOCATION DESCRIPTION

MAP REFERENCE ID _____ LOCATION CROSS REFERENCE _____

LITHOLOGIC LOG LOGGER CODE AW

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
1										
3										
5	↓	9"		U			0	N	GW	Brown sandy gravel
7										
9										
11	↓	9"		U			0	N	GW	Brown sandy gravel
13										
15	↓	9"		U	101/0001		0	N	GW	Brown sandy gravel
17										
19										
21	↓	14"		U			0	N	GW	Brown sandy gravel
23										
25	↓	12"		U			0	N	GW	Brown sandy gravel
27										
29										

LOCATION PROXIMITY (LPRCODE)
I - WITHIN INSTALLATION O - OUTSIDE INSTALLATION

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

CONSTRUCTION METHODS (CMCCODE)
AR - AIR ROTARY
B - BORED OR AUGERED
C - CABLE-TOOL
D - DUG
HS - HOLLOW STEM AUGER
J - JETTED
P - AIR-PERCUSSION
RM - REVERSE ROTARY, MUD
T - TRENCHING
V - DRIVEN
W - DRIVE AND WASH

SAMPLE METHODS (SSMCODE)
A - AUGER CUTTINGS
S - 2" O.D. 1.38" I.D. DRIVE SAMPLE
U - 3" O.D. 2.42" I.D. TUBE SAMPLE
T - 3" O.D. THIN-WALLED SHELBY TUBE

BOREHOLE LOG (SOIL)

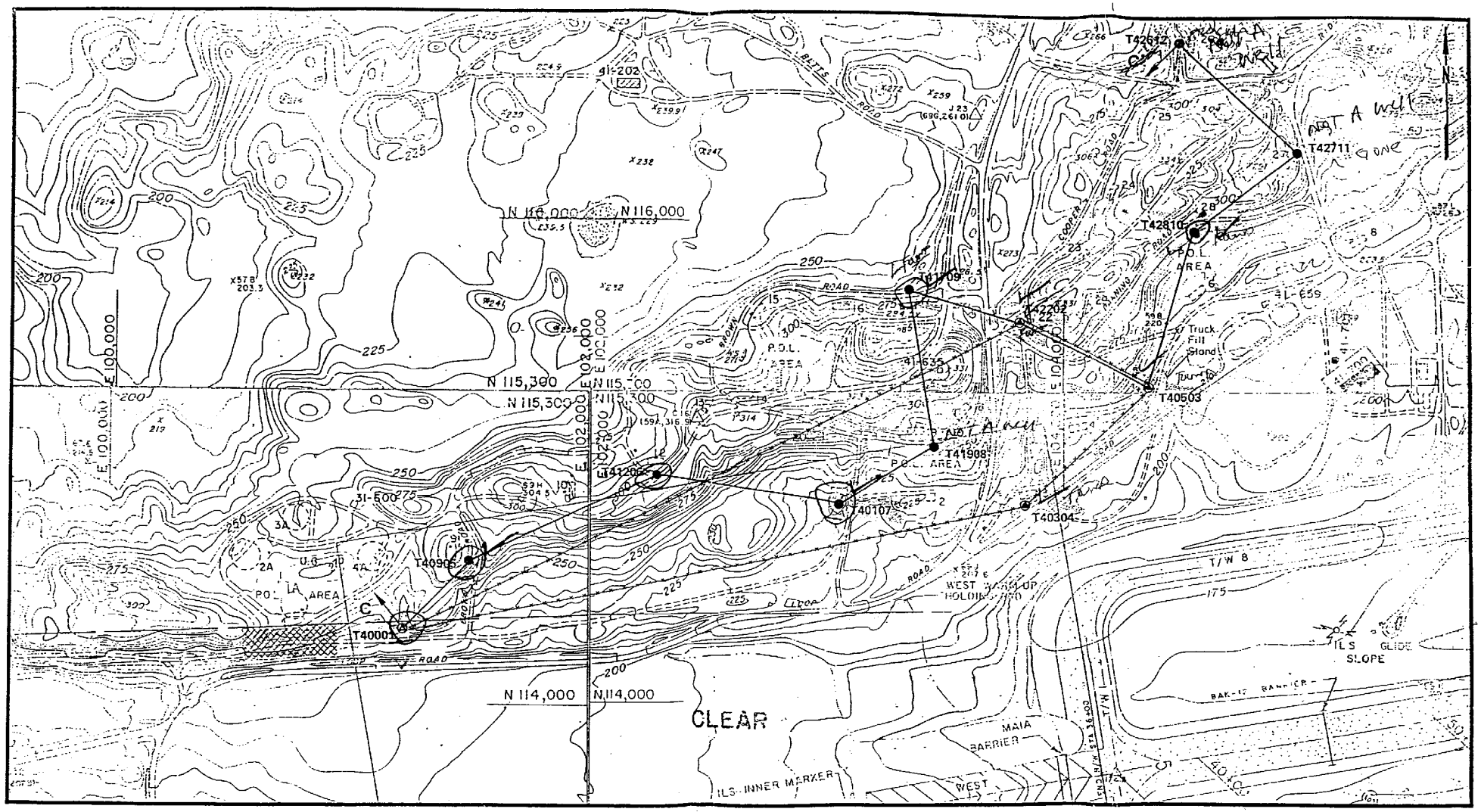
INSTALLATION ID ELM (0687)
LOCATION ID SP15-2 (101)

DATE STARTED July 21, 1988

LITHOLOGIC LOG

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
31	↓	18"	↓	U	101		5	N	GW	gray coarse sandy gravel, wet
33										
35										
37										
39										
41										TD 40' Completed as a monitoring well

CLASS/CODE - SEE SATCODE LIST, THEN APPROPRIATE CODE LIST



SOURCE : Department of the Air Force
Master Plan — Base Plan
Tab No. C–1: Sheet 1 of 8, Sheet 2 of 8, Sheet 4 of 8 and Sheet 5 of 8
September 1, 1966

Geologic Cross Section C–C' Shown on Drawing 3

September 1988

HESHARZA ENVIRONMENTAL SERVICES, INC.

LEGEND

- Deep Wells (110 to 175 feet)
- Shallow Wells (25 to 40 feet)
- Fence Diagram Section Lines Shown on Drawing 2
- Oserved Surface Seep Area

T4 00 00
- Boring Number
- Tank Number
- Priority Designation

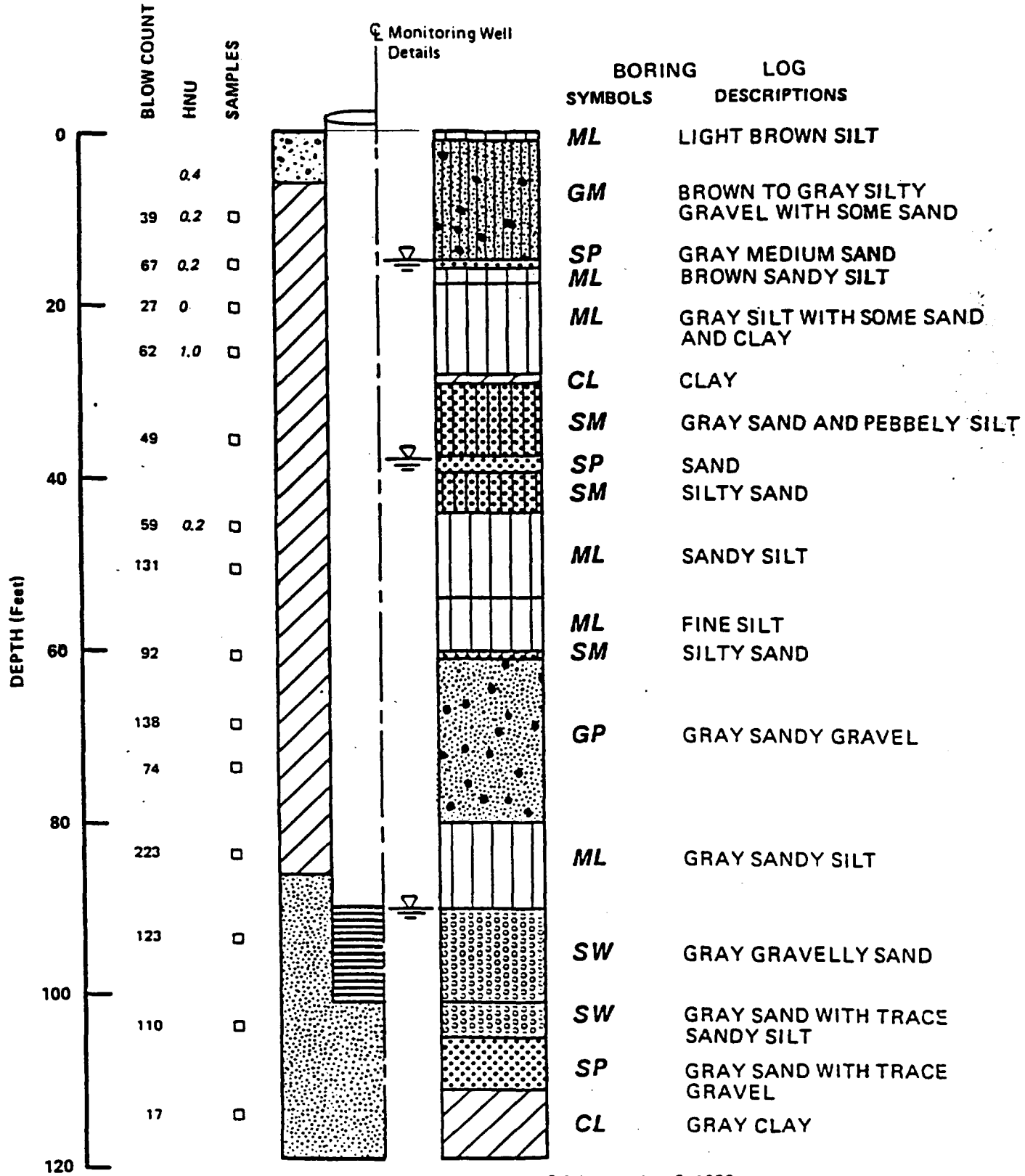
SCALE 400 0 400 Feet

Figure 10

PRIORITY 4: ABANDONED UNDERGROUND JET FUEL STORAGE TANKS

ELMENDORF AIR FORCE BASE
Anchorage, Alaska

ST32 = UST Sour



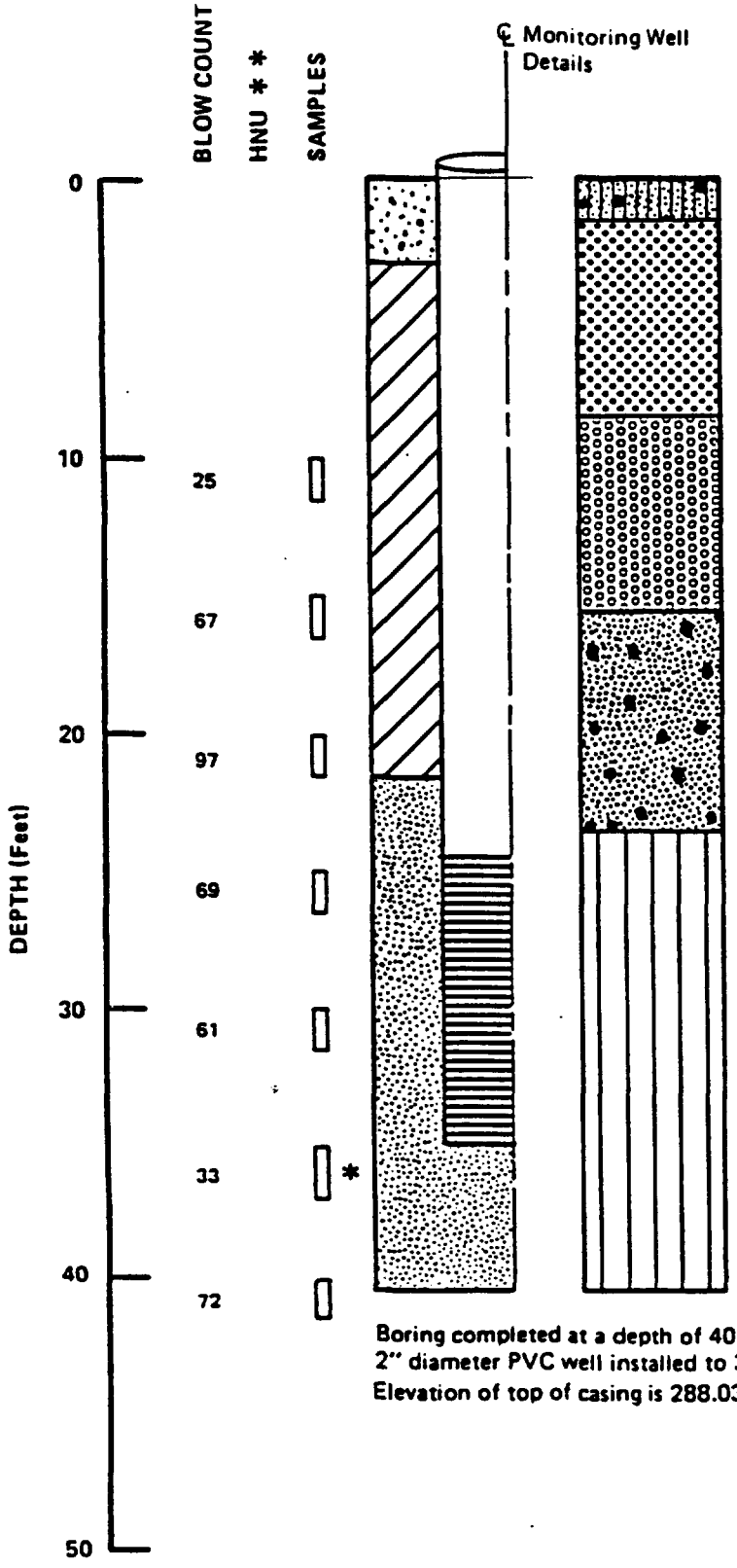
Boring completed at a depth of 119.0 feet on July 8, 1988.
Water encountered at a depth of 15.0, 37.5, and 90.0 feet while drilling.
2" diameter PVC well installed to 100.5 feet.
Elevation of top of casing is 243.63 feet.

Logs generated by Harza from field notes provided by
Denali Drilling, Inc. and James M. Montgomery, Consulting Engineers, Inc.

HES HARZA ENVIRONMENTAL SERVICES INC September 1988

PRIORITY 4: 29 TANK FARM
BORING T40001

ELMENDORF AIR FORCE BASE
Anchorage, Alaska



BORING LOG

SYMBOLS	DESCRIPTIONS
SM	BROWN SILTY SAND
SP	BROWN GRAVELLY SAND
SW	BROWN MEDIUM SAND AND GRAY BROWN SILTY SAND
ML/GP	GRAY BROWN GRAVELLY SILT AND SILTY GRAVEL
ML	GRAY SANDY SILT

Boring completed at a depth of 40.5 feet on July 29, 1988.
2" diameter PVC well installed to 35 feet.
Elevation of top of casing is 288.03 feet.

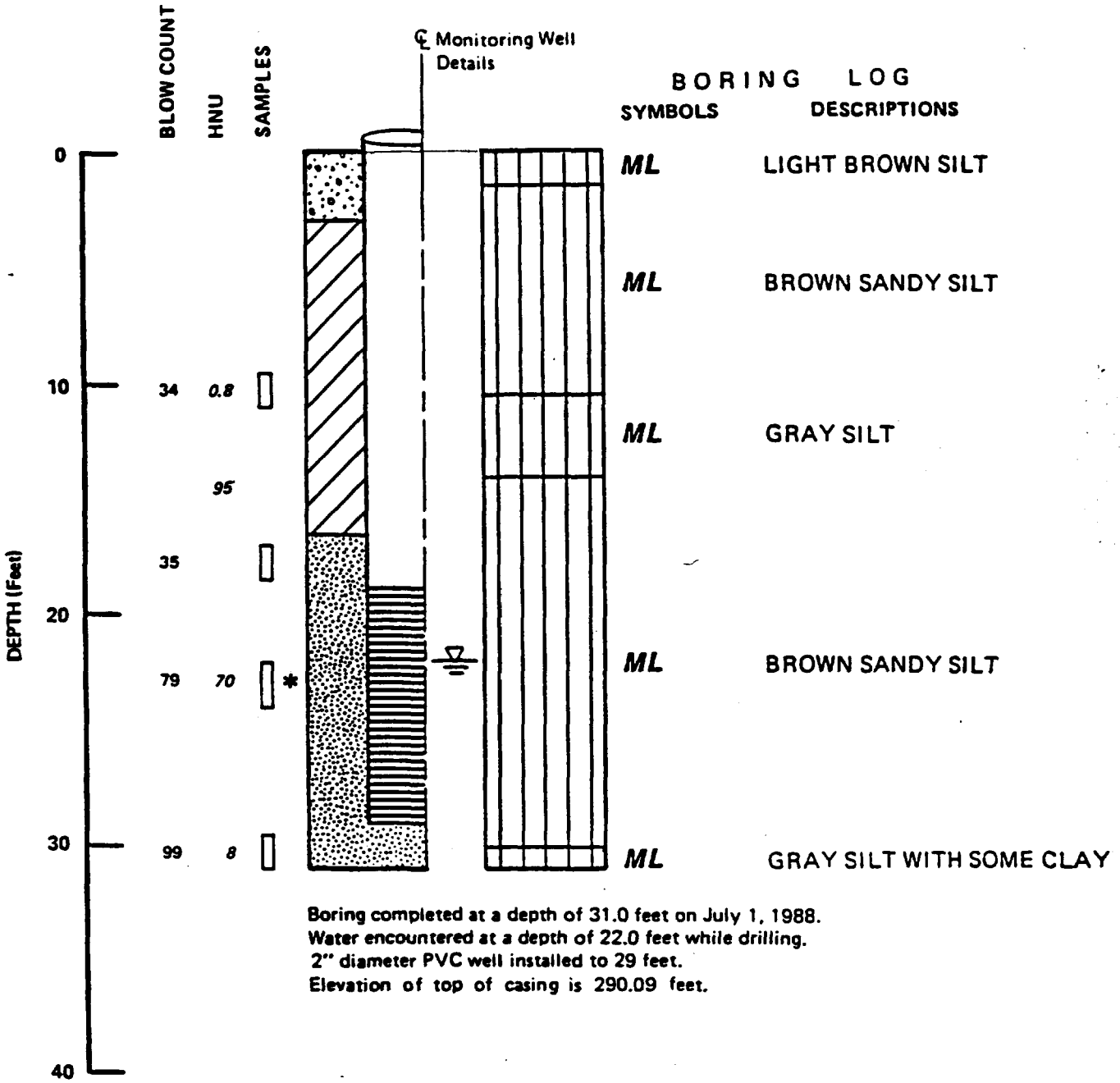
* Soil Sample Collected for Analysis
* * No HNU Readings Recorded in Field Log

Logs generated by Harza from field notes provided by
Denali Drilling, Inc. and James M. Montgomery, Consulting Engineers, Inc.

HES HARZA ENVIRONMENTAL SERVICES INC September 1988

PRIORITY 4: 29 TANK FARM
BORING T40905

ELMENDORF AIR FORCE BASE
Anchorage, Alaska



Boring completed at a depth of 31.0 feet on July 1, 1988.
Water encountered at a depth of 22.0 feet while drilling.
2" diameter PVC well installed to 29 feet.
Elevation of top of casing is 290.09 feet.

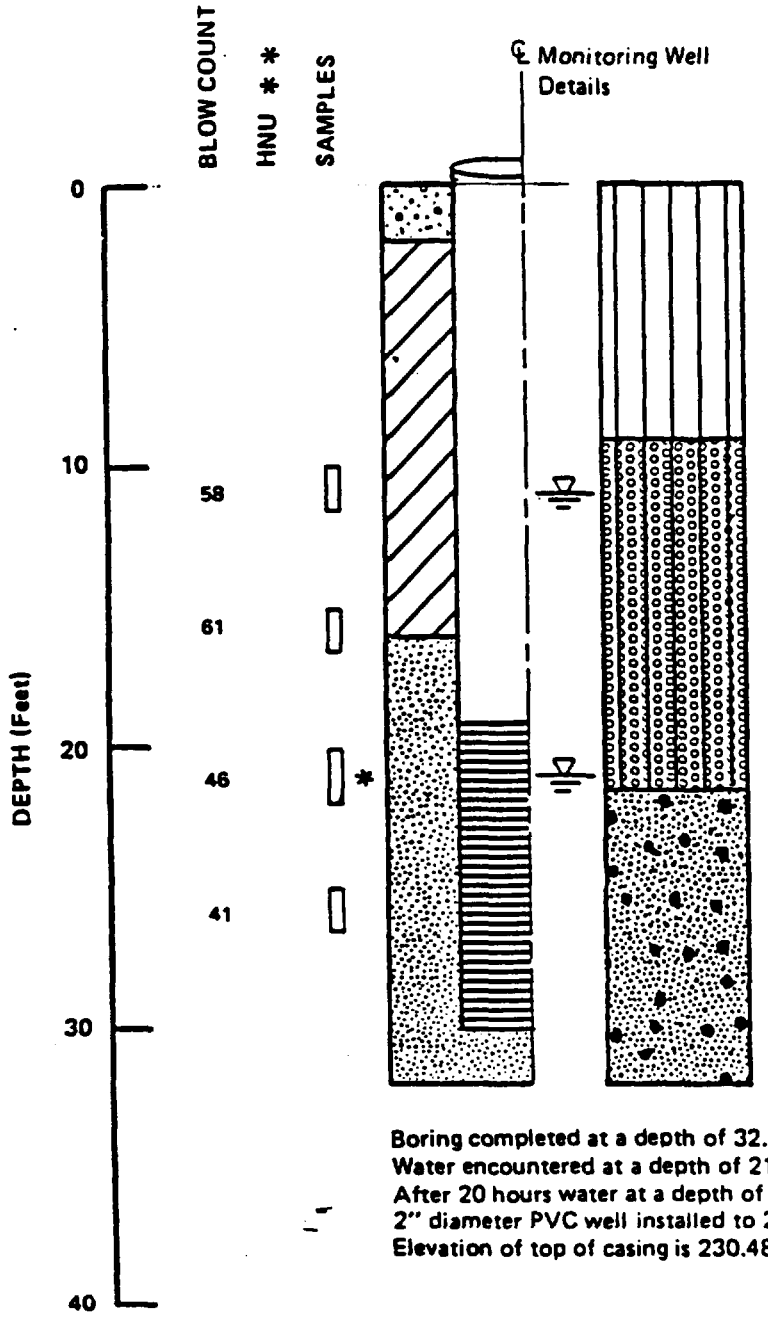
* Soil Sample Collected for Analysis

Logs generated by Harza from field notes provided by
Denali Drilling, Inc. and James M. Montgomery, Consulting Engineers, Inc.

HES HARZA ENVIRONMENTAL SERVICES INC. September 1988

PRIORITY 4: 29 TANK FARM
BORING T41206

ELMENDORF AIR FORCE BASE
Anchorage, Alaska



Boring completed at a depth of 32.0 feet on July 5, 1988.
Water encountered at a depth of 21.0 feet while drilling.
After 20 hours water at a depth of 11.0 feet.
2" diameter PVC well installed to 29 feet.
Elevation of top of casing is 230.48 feet.

* Soil Sample Collected for Analysis

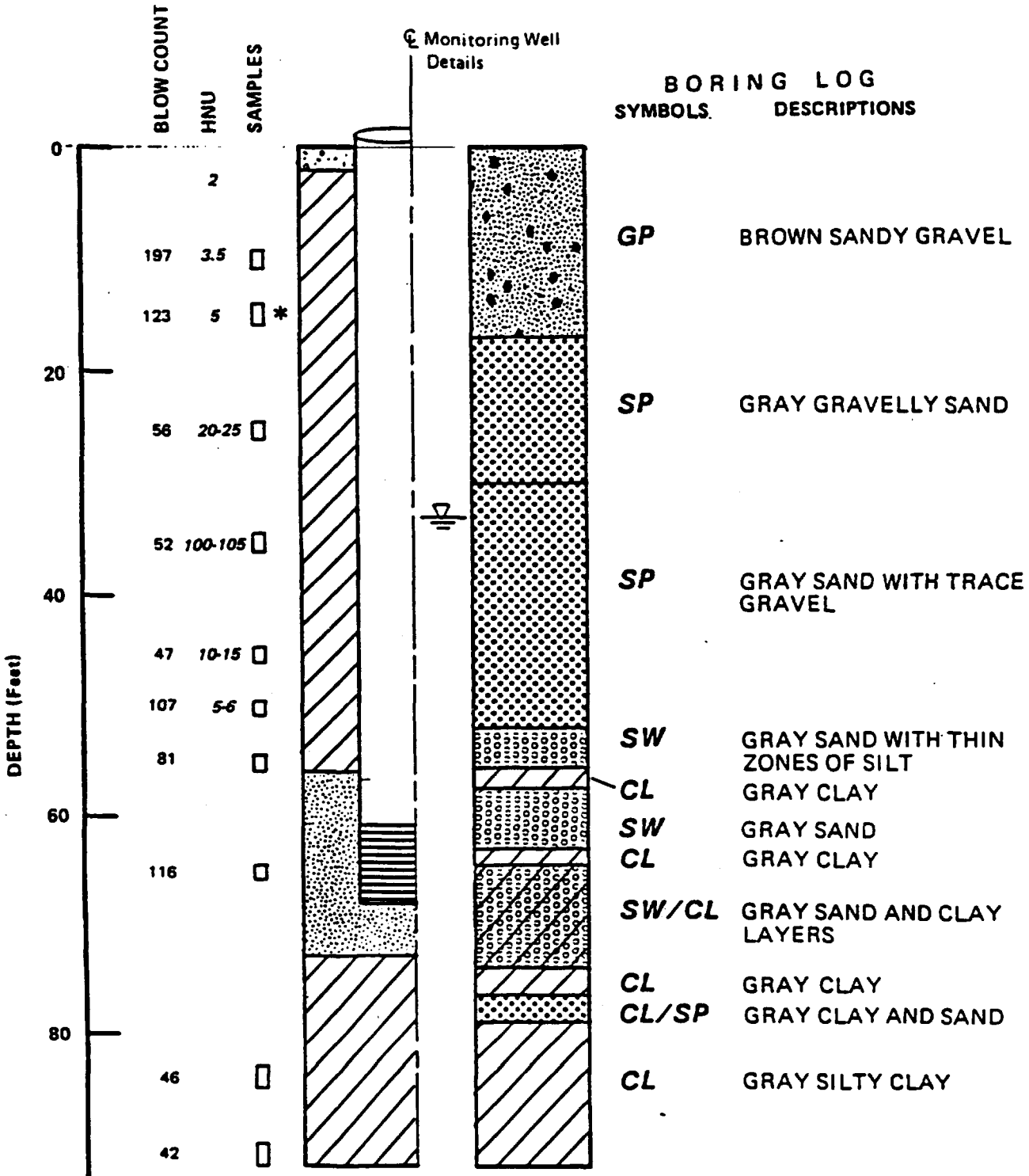
* * No HNU Readings Recorded on Field Log.

Logs generated by Harza from field notes provided by
Denali Drilling, Inc. and James M. Montgomery, Consulting Engineers, Inc.

HES HARZA ENVIRONMENTAL SERVICES INC. September 1988

PRIORITY 4: 29 TANK FARM
BORING T40107

ELMENDORF AIR FORCE
Anchorage, Alaska



Boring completed at a depth of 92.0 feet on July 21, 1988.
Water encountered at a depth of 33.0 feet while drilling.
2" diameter PVC well installed to 67 feet.
Elevation top of casing is 225.10 feet.

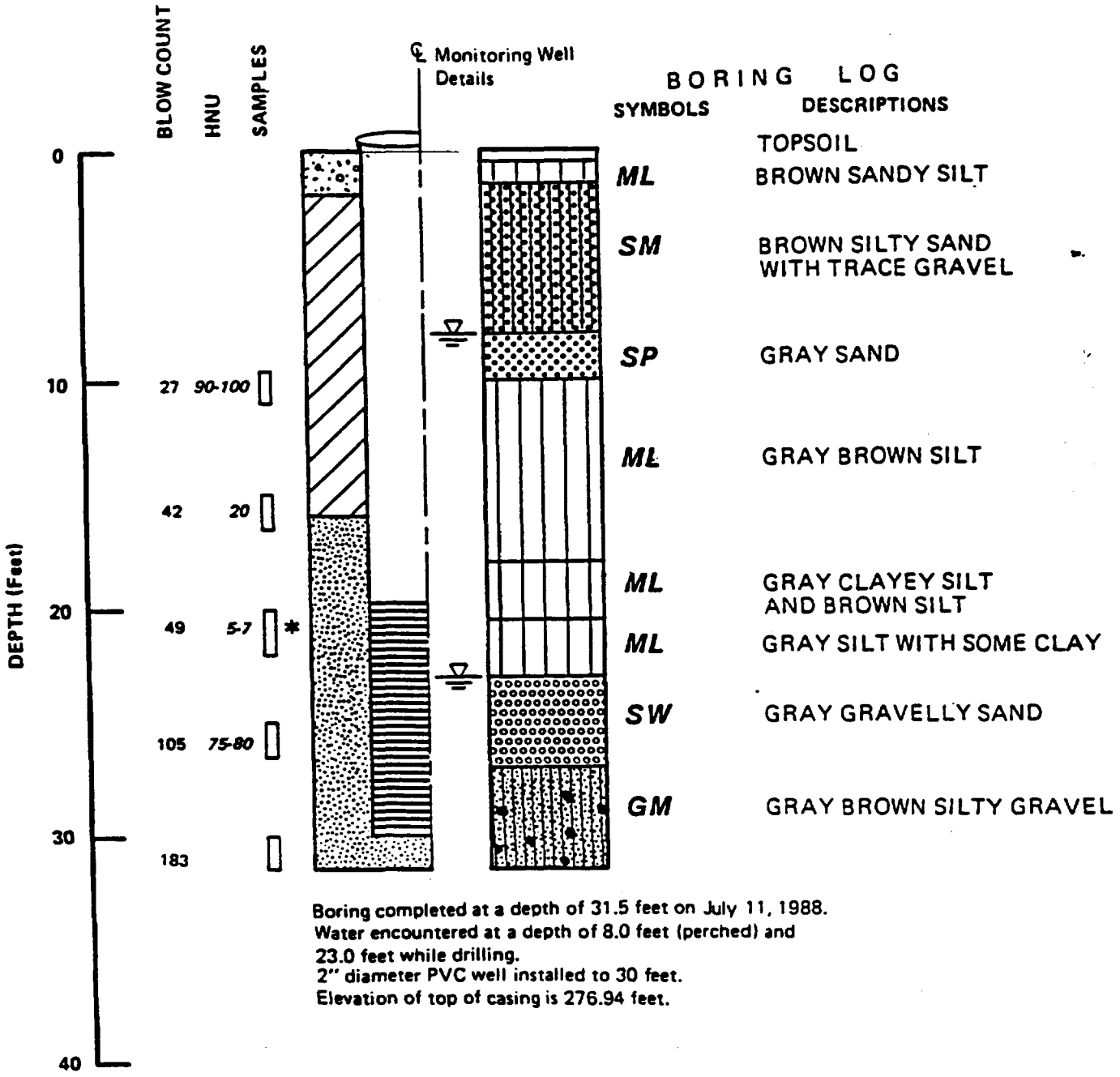
Soil Sample Collected for Analysis

Logs generated by Harza from field notes provided by
Denali Drilling, Inc. and James M. Montgomery, Consulting Engineers, Inc.

HES HARZA ENVIRONMENTAL SERVICES INC September 1988

PRIORITY 4: 29 TANK FARM
BORING T40304

ELMENDORF AIR FORCE BASE
Anchorage, Alaska



Boring completed at a depth of 31.5 feet on July 11, 1988.
Water encountered at a depth of 8.0 feet (perched) and 23.0 feet while drilling.
2" diameter PVC well installed to 30 feet.
Elevation of top of casing is 276.94 feet.

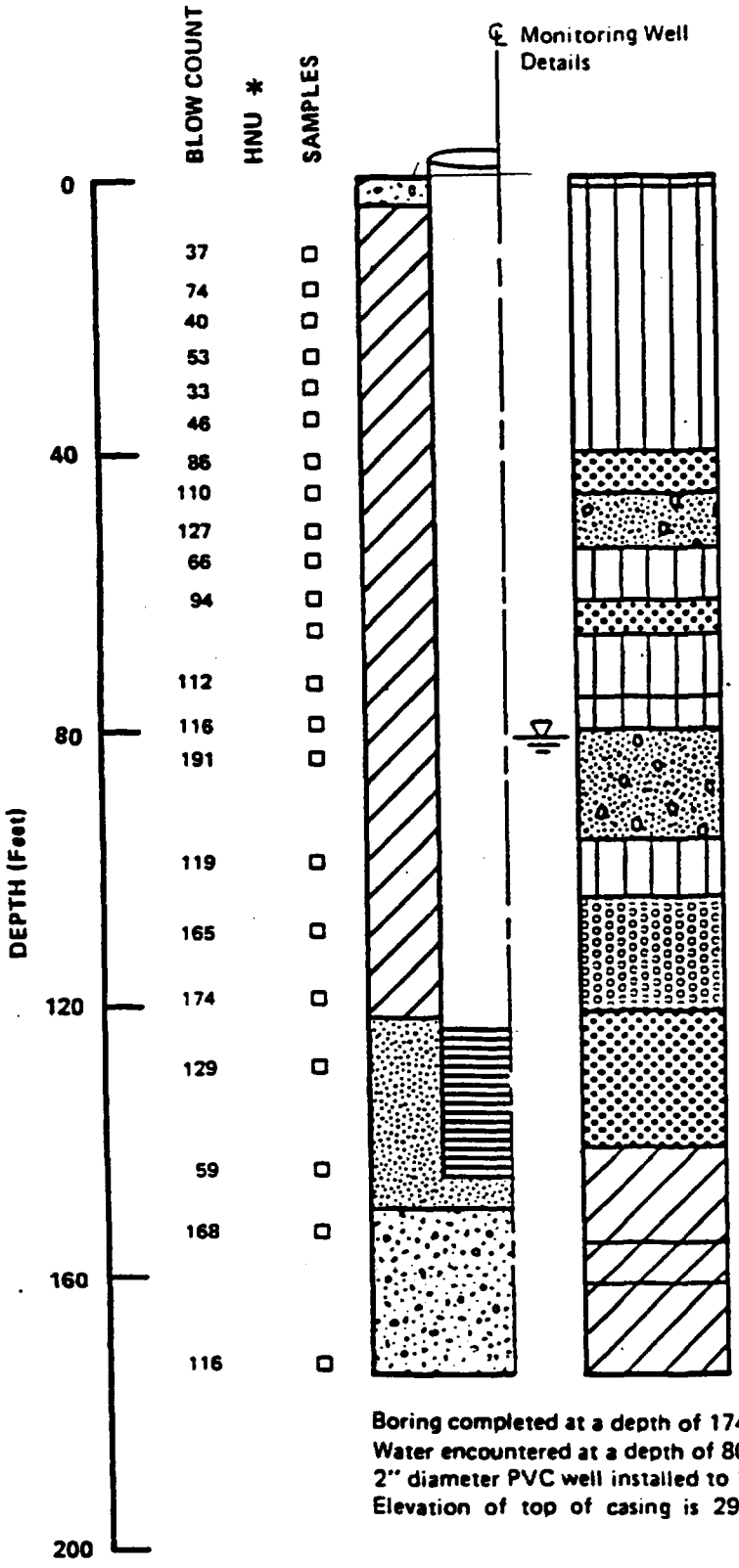
* Soil Sample Collected for Analysis

Logs generated by Harza from field notes provided by Denali Drilling, Inc. and James M. Montgomery, Consulting Engineers, Inc.

HES HARZA ENVIRONMENTAL SERVICES INC. September 1988

PRIORITY 4: 29 TANK FARM
BORING T41709

ELMENDORF AIR FORCE BASE
Anchorage, Alaska



BORING SYMBOLS	LOG DESCRIPTIONS
ML	BROWN SILT
ML	GRAY, BROWN SANDY SILT
ML/SP	GRAY, BROWN SILT AND SAND
GW	GRAY SANDY GRAVEL WITH TRACE CLAY
ML/SP	GRAY SILT WITH LAYERS OF GRAY SAND
SP	GRAY SAND WITH TRACE GRAVEL
ML	GRAY SILT WITH GRAVELLY SAND
ML/GW	GRAVELLY SILT
GW	GRAY SANDY GRAVEL WITH TRACE SILT
ML	GRAY CLAYEY SILT WITH TRACE SAND
SW	GRAY SAND WITH TRACE SILT
SP	GRAY SAND WITH TRACE CLAY
CL	GRAY SILTY CLAY WITH MEDIUM TO COARSE SAND
CL	GRAY SILTY CLAY
CL	GRAY SILTY CLAY WITH FINE TO MEDIUM SAND

Boring completed at a depth of 174.5 feet on July 15, 1988.
Water encountered at a depth of 80.5 feet while drilling.
2" diameter PVC well installed to 145.0 feet.
Elevation of top of casing is 290.09 feet.

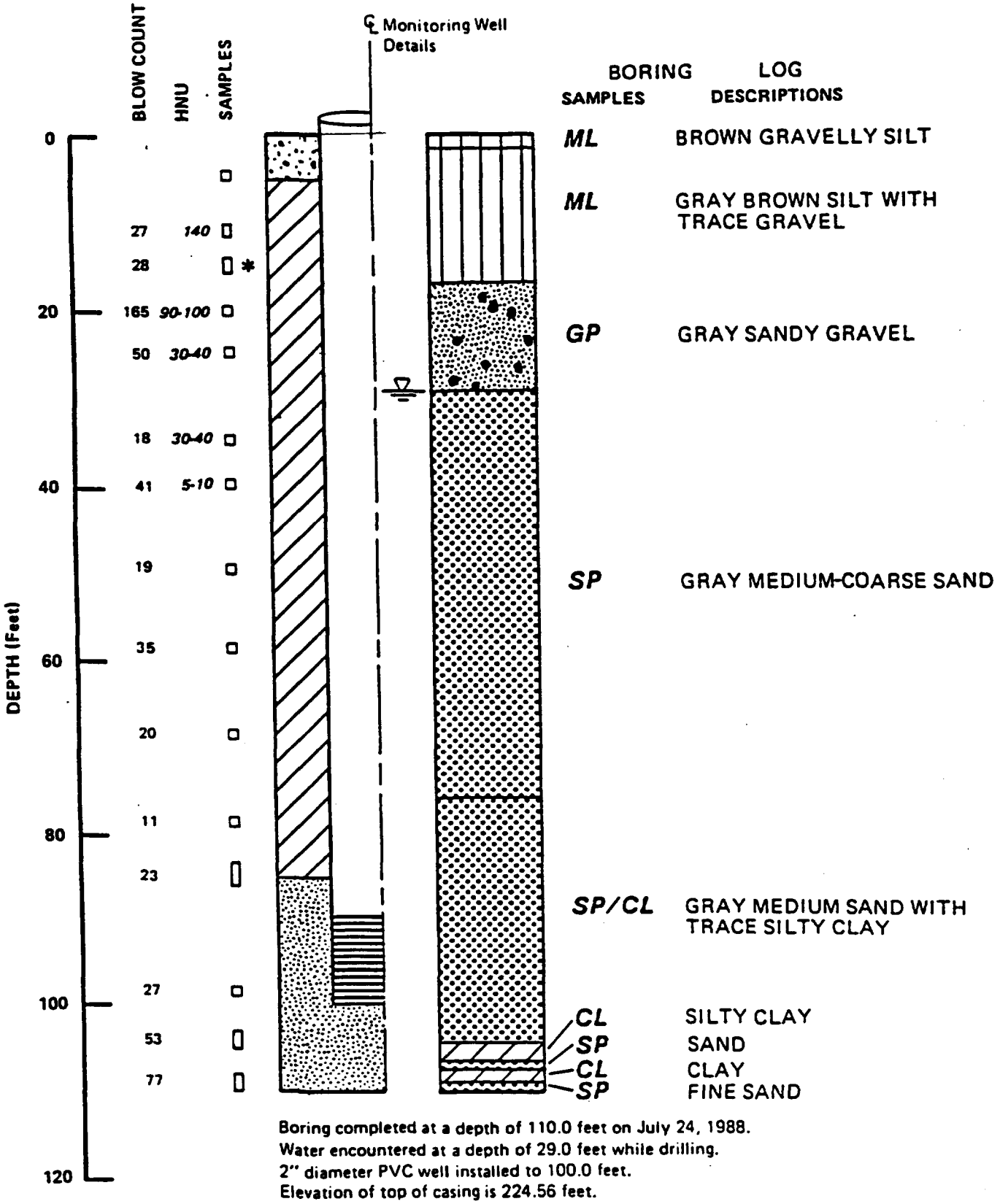
* No HNU Readings Recorded on Field Logs.

Logs generated by Harza from field notes provided by
Denali Drilling, Inc. and James M. Montgomery, Consulting Engineers, Inc.

HES HARZA ENVIRONMENTAL SERVICES INC. September 1988

PRIORITY 4: 29 TANK FARM
BORING T42202

ELMENDORF AIR FORCE BASE
Anchorage, Alaska



Boring completed at a depth of 110.0 feet on July 24, 1988.
Water encountered at a depth of 29.0 feet while drilling.
2" diameter PVC well installed to 100.0 feet.
Elevation of top of casing is 224.56 feet.

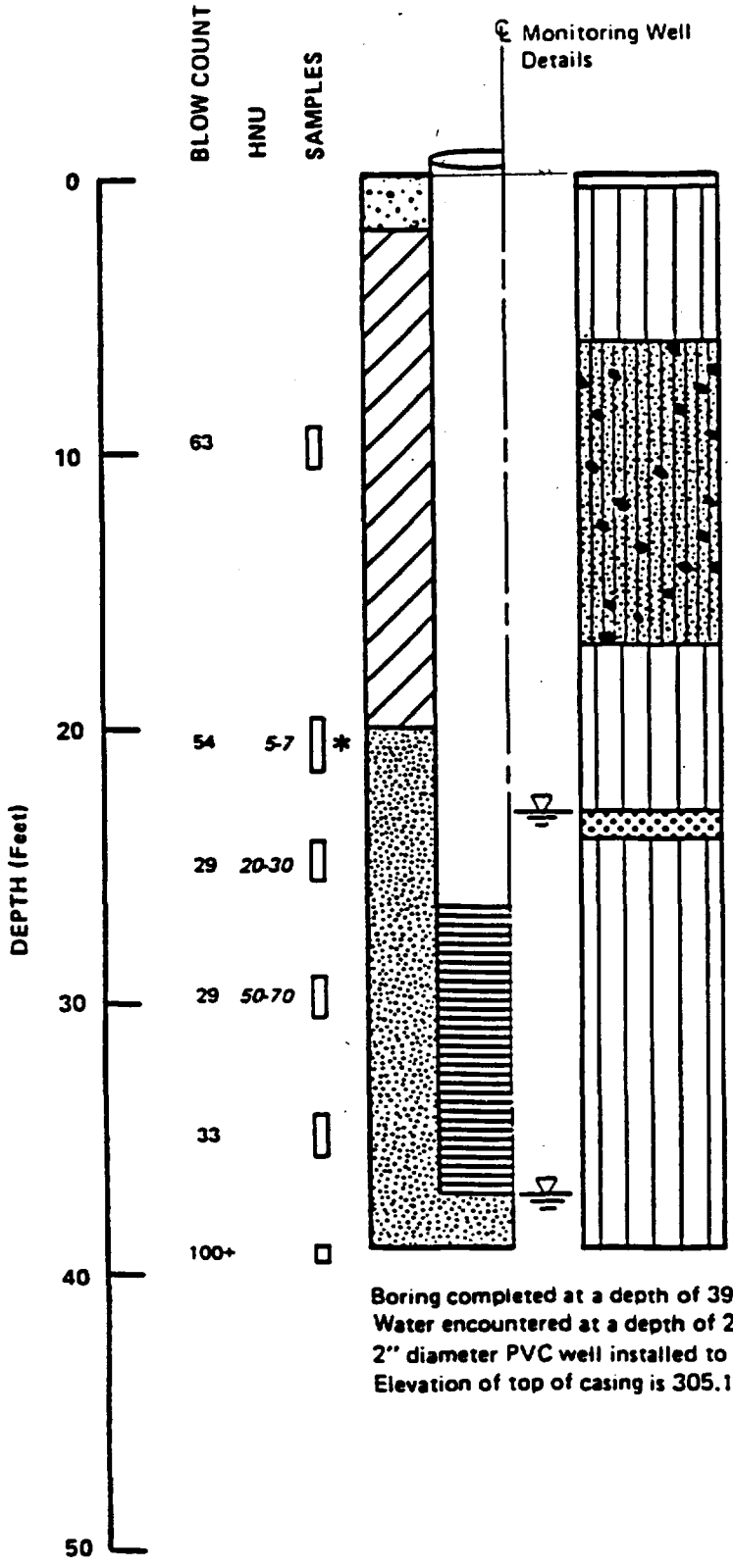
* Soil Sample Collected for Analysis

Logs generated by Harza from field notes provided by
Denali Drilling, Inc. and James M. Montgomery, Consulting Engineers, Inc.

HES HARZA September 1988

PRIORITY 4: 29 TANK FARM
BORING T40503

ELMENDORF AIR FORCE BASE
Anchorage, Alaska



BORING LOG

SYMBOLS	DESCRIPTIONS
	TOPSOIL
ML	BROWN GRAVELLY SILT WITH TRACE SAND
GM	GRAY SILTY GRAVEL WITH TRACE SAND
ML	GRAY, BROWN GRAVELLY SILT WITH TRACE SAND
SP	GRAY GRAVELLY SAND
ML	GRAY SILT WITH SOME CLAY

Boring completed at a depth of 39.0 feet on July 12, 1988.
Water encountered at a depth of 23.0 feet (perched) and 37.0 feet.
2" diameter PVC well installed to 36.5 feet.
Elevation of top of casing is 305.15 feet.

* Soil Sample Collected for Analysis

Logs generated by Harza from field notes provided by
Denali Drilling, Inc. and James M. Montgomery, Consulting Engineers, Inc.

HES HARZA ENVIRONMENTAL SERVICES INC September 1988

PRIORITY 4: 29 TANK FARM
BORING T42810

ELMENDORF AIR FORCE BASE
Anchorage, Alaska

WELL COMPLETION INFORMATION

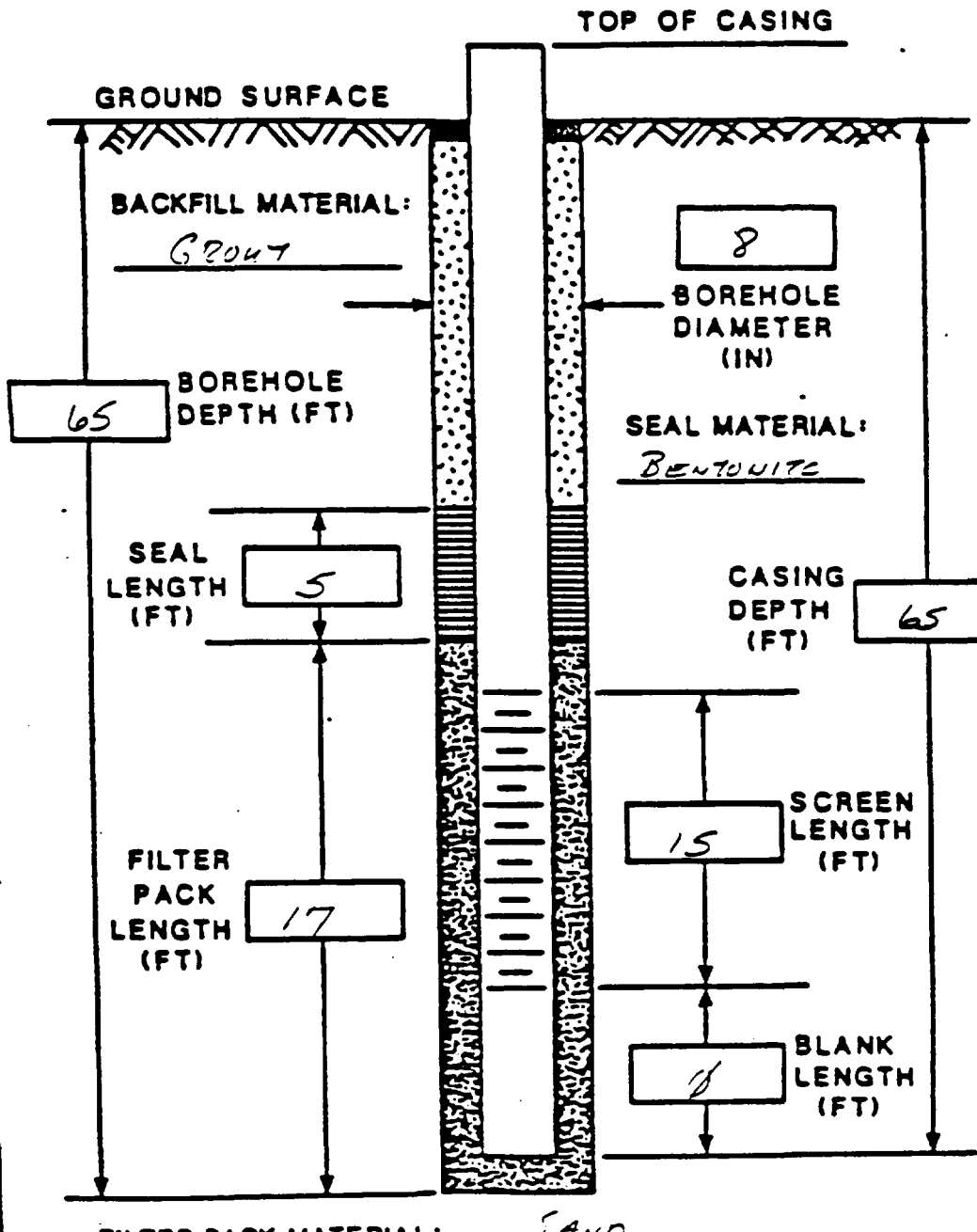
INSTALLATION ID ELMENDORF AFB
LOCATION ID BH-1 (119)
WELL OWNER
WELL TYPE CLASS MNW
FORMATION OF COMPLETION SAND

LOCATION TYPE WL
INSTALLATION DATE 2/10/88
INSTALLER B&V
WELL COMPLETION METHOD BS
ZONE OF COMPLETION 65-50

SEAL END DEPTH (FT) 48
MEAS. POINT ELEV. (FTMSL)
CASING DEPTH (FT) 65
CASING DIAMETER (IN) 2
CASING MATERIAL PVC

FILTER PACK LENGTH (FT) 17
SCREEN BEGIN. DEPTH (FT) 65
SCREEN LENGTH (FT) 15
SCREEN SLOT SIZE (IN) .01

REMARKS



WELL TYPE CLASSIFICATIONS (WTCODE)
- MNW - MONITORING WELL
- PRW - PRODUCTION WELL
- TST - TEST WELL
- WSW - WATER SUPPLY WELL

CASING MATERIAL (CMACODE)
- ABS - ABS
- BRK - BRICK
- CBS - CARBON STEEL
- CNC - CONCRETE
- COP - COPPER
- FBG - FIBERGLASS
- GLS - GALVANIZED STEEL
- WRI - WROUGHT IRON
- SLS - STAINLESS STEEL
- LCS - LOW CARBON STEEL
- M - OTHER METAL
- TFL - TEFLON
- PLY - POLYPROPYLENE
- PVC - PVC
- RST - ROCK OR STONE
- STL - STEEL
- TIL - TILE
- COS - COATED STEEL
- WD - WOOD

ZONE OF COMPLETION (GZCODE)
- A - AQUIFER
- C - CONFINING LAYER

WELL COMPLETION METHODS: (WCMCODE)
- C - POROUS CONCRETE
- GP - GRAVEL PACK W/PERF.
- GS - GRAVEL PACK W/SCREEN
- H - HORIZONTAL GALLERY
- OE - OPEN END
- P - PERFORATED OR SLOTTE
- S - SCREEN
- SP - SAND POINT
- W - WALLED OR SHORED
- OP - OPEN

BOREHOLE LOG (SOIL)

INSTALLATION ID ELMENDORF AFB LOCATION ID BH-1 (119)
LOCATION TYPE BH LOCATION PROXIMITY ____
COORDINATES (FT): NORTH ____ EAST ____
SURFACE ELEVATION (FTMSL) ____
DRILLER CODE DD CONSTRUCTION METHOD HS
DATE STARTED 2/10/89 DATE COMPLETED 2/10/89
BOREHOLE DEPTH (FT.) 65' BOREHOLE DIAM. (IN) 8"

GROUNDWATER LEVELS		
DATE	TIME	DEPTH (FT)
2/10/89		56.5' ATD

LOCATION DESCRIPTION

MAP REFERENCE ID ____ LOCATION CROSS REFERENCE ____

LITHOLOGIC LOG LOGGER CODE ____

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
2									ML	SILT - SOME MED. BROWN, V. SANDY W/SOME GRAVELS
4									GC	GRAVEL - DENSE, WIDELY VARIED MED TO
6	↕	16"		U			SLIM			COBBLE SIZE, POORLY SORTED, SUB-ROUNDED, W/MED. BROWN
8										CLAY MATRIX, SILTY
10										
12	↕	8"		U			1PPM			GRAVEL - V. DENSE SIMILAR TO 6' TO
14									GC	COBBLE SIZE, POORLY SORTED, SUB-ROUNDED W/MED. BROWN CLAY
16	↕	13"		U						MATRIX, SANDY, SILTY, MOIST
18										
20										
22	↕	16"		U	119 0001				GC	GRAVEL - DENSE WIDELY VARIED, FINE TO COBBLE SIZE POORLY SORTED SUB-ROUNDED W/MED. BROWN CLAY
24										MATRIX, SANDY W/SILTY MOIST
26	↕	12"		U						
28										
30										

LOCATION PROXIMITY (LPRCODE)
I - WITHIN INSTALLATION O - OUTSIDE INSTALLATION

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

CONSTRUCTION METHODS (CMCCODE)
- AR - AIR ROTARY
- B - BORED OR AUGERED
- C - CABLE-TOOL
- D - DUG
- HS - HOLLOW STEM AUGER
- J - JETTED
- P - AIR-PERCUSSION
- RM - REVERSE ROTARY, MUD
- T - TRENCHING
- V - DRIVEN
- W - DRIVE AND WASH

SAMPLE METHODS (SSMCODE)
- A - AUGER CUTTINGS
- S - 2" O.D. 1.38" I.D. DRIVE SAMPLE
- U - 3" O.D. 2.42" I.D. TUBE SAMPLE
- T - 3" O.D. THIN-WALLED SHELBY TUBE

BOREHOLE LOG (SOIL)

INSTALLATION ID Elmendorf AFB
LOCATION ID BH-1 DATE STARTED 8/9/91

LITHOLOGIC LOG

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
32	↓	15"		4					GC	
									SP	
34										SAND - LOOSE, MED. BROWN, MED. TO V. COARSE GRAINED, POORLY SORTED, SUB-ANGULAR TO ROUNDED, V. CLAYEY W/COARSE PEBBLE GRAVELS
36										
38										
40										
42	↓	15'		4						
44										
46									SP	
48										
50										
52	↓	16'		4						
54										
56									SP	
58										
60										
62	↓	16'		4	119 0002					
64									SP	
66										
68										

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

WELL COMPLETION INFORMATION

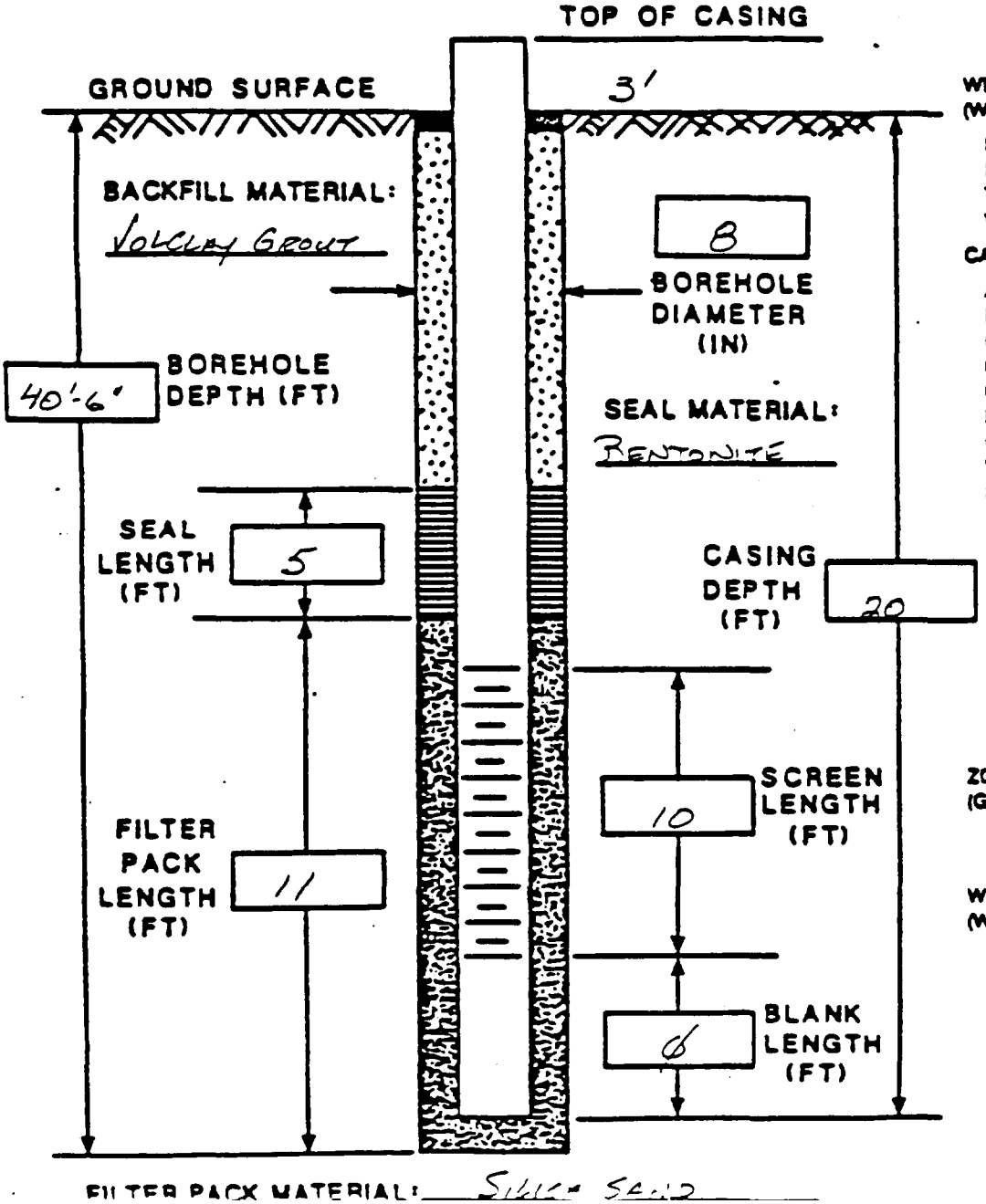
INSTALLATION ID ELMENDORF AFB
LOCATION ID BH-3 (121)
WELL OWNER
WELL TYPE CLASS. MNW
FORMATION OF COMPLETION GRAVEL CLAY

LOCATION TYPE WL
INSTALLATION DATE 8/23/88
INSTALLER RSV
WELL COMPLETION METHOD 5
ZONE OF COMPLETION A

SEAL END DEPTH (FT)
MEAS. POINT ELEV. (FT MSL)
CASING DEPTH (FT) 20
CASING DIAMETER (IN) 2
CASING MATERIAL PVC

FILTER PACK LENGTH (FT) 11
SCREEN BEGIN. DEPTH (FT) 20
SCREEN LENGTH (FT) 10
SCREEN SLOT SIZE (IN) .010

REMARKS



WELL TYPE CLASSIFICATIONS (WTCCODE)
- MNW - MONITORING WELL
- PRW - PRODUCTION WELL
- TST - TEST WELL
- WSW - WATER SUPPLY WELL

CASING MATERIAL (CMACODE)
- ABS - ABS
- BRK - BRICK
- CBS - CARBON STEEL
- CNC - CONCRETE
- COP - COPPER
- FBG - FIBERGLASS
- GLS - GALVANIZED STEEL
- WRI - WROUGHT IRON
- SLS - STAINLESS STEEL
- LCS - LOW CARBON STEEL
- M - OTHER METAL
- TFL - TEFLON
- PLY - POLYPROPYLENE
- PVC - PVC
- RST - ROCK OR STONE
- STL - STEEL
- TIL - TILE
- COS - COATED STEEL
- WD - WOOD

ZONE OF COMPLETION (GZCCODE)
- A - AQUIFER
- C - CONFINING LAYER

WELL COMPLETION METHODS: (WCMCODE)
- C - POROUS CONCRETE
- GP - GRAVEL PACK W/PERF
- GS - GRAVEL PACK W/SCR
- H - HORIZONTAL GALLERY
- OE - OPEN END
- P - PERFORATED OR SLOTTE
- S - SCREEN
- SP - SAND POINT
- W - WALLED OR SHORED
- OP - OPEN

BOREHOLE LOG (SOIL)

INSTALLATION ID Elmendorf AFB — LOCATION ID BH-3
LOCATION TYPE BH — LOCATION PROXIMITY I
COORDINATES (FT): NORTH ____ EAST ____
SURFACE ELEVATION (FTMSL) ____
DRILLER CODE DD — CONSTRUCTION METHOD HS
DATE STARTED 8/20/88 — DATE COMPLETED 8/23/88
BOREHOLE DEPTH (FT.) 40.5 ft — BOREHOLE DIAM. (IN) 8 IN.

GROUNDWATER LEVELS		
DATE	TIME	DEPTH (FT)

LOCATION DESCRIPTION

MAP REFERENCE ID ____ LOCATION CROSS REFERENCE ____

LITHOLOGIC LOG — LOGGER CODE RH

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
2									FILL	GRAVEL - DENSE, COLOR VARIES, FINE TO V. COARSE PEBBLE SIZE SUB-ROUNDED, POORLY SORTED, V. SILTY, V. CLAYEY.
4									(GC) LL	
6		11"		11			N	N		CLAY - FIRM, MED. BROWN, LOW PLASTIC, V. SILTY W/GRANULE TO MED. PEBBLE GRAVELS WEATHERED,
8									CL	
10										
12		18"		4	121 0001		N	N		CLAY - STIFF, MED. BROWN, LOW PLASTIC, V. SILTY, W/GRANULE TO MED. PEBBLE GRAVEL, WEATHERED
14										
16		18"		4			N	N	CL	CLAY - SOFT TO STIFF, MED. BROWN, LOW PLASTIC, V. SILTY, SANDY W/GRANULE TO MED. PEBBLE GRAVELS
18										
20										
22		18"		4			N	N		CLAY - STIFF, MED. BROWN, LOW PLASTIC, V. SILTY, SANDY W/GRANULE TO V. COARSE PEBBLE GRAVEL.
24										
26		18"		4			N	N		CLAY - STIFF, MED BROWN, LOW PLASTIC, V. SILTY, SANDY, W/GRANULE TO V. COARSE PEBBLE GRAVEL
28										
30										

LOCATION PROXIMITY (LPRCODE)
I - WITHIN INSTALLATION O - OUTSIDE INSTALLATION

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

CONSTRUCTION METHODS (CMCCODE)

- AR - AIR ROTARY
- B - BORED OR AUGERED
- C - CABLE-TOOL
- D - DUG
- HS - HOLLOW STEM AUGER
- J - JETTED
- P - AIR-PERCUSSION
- RM - REVERSE ROTARY, MUD
- T - TRENCHING
- V - DRIVEN
- W - DRIVE AND WASH

SAMPLE METHODS (SSMCODE)

- A - AUGER CUTTINGS
- S - 3" O.D. 1.38" I.D. DRIVE SAMPLE
- U - 3" O.D. 2.42" I.D. TUBE SAMPLE
- T - 3" O.D. THIN-WALLED SHELBY TUBE

BOREHOLE LOG (SOIL)

INSTALLATION ID ELMENDORF AFB
LOCATION ID RH-2
DATE STARTED 8/20/87

LITHOLOGIC LOG

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
22										CLAY - V. STIFF, MED. BROWN, LOW PLASTIC, SILTY, SANDY W/GRAVELS TO COARSE
24										GRAVELS
26										HARD PAN
30										CLAY - V. HARD, MED. BROWN, LOW PLASTIC, SILTY, W/GRAVELS TO COARSE PEBBLE GRAVEL.
40										
42										T.D. 40'-6"
										WELL SET @ 20ft
										AUGER REFUSAL

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

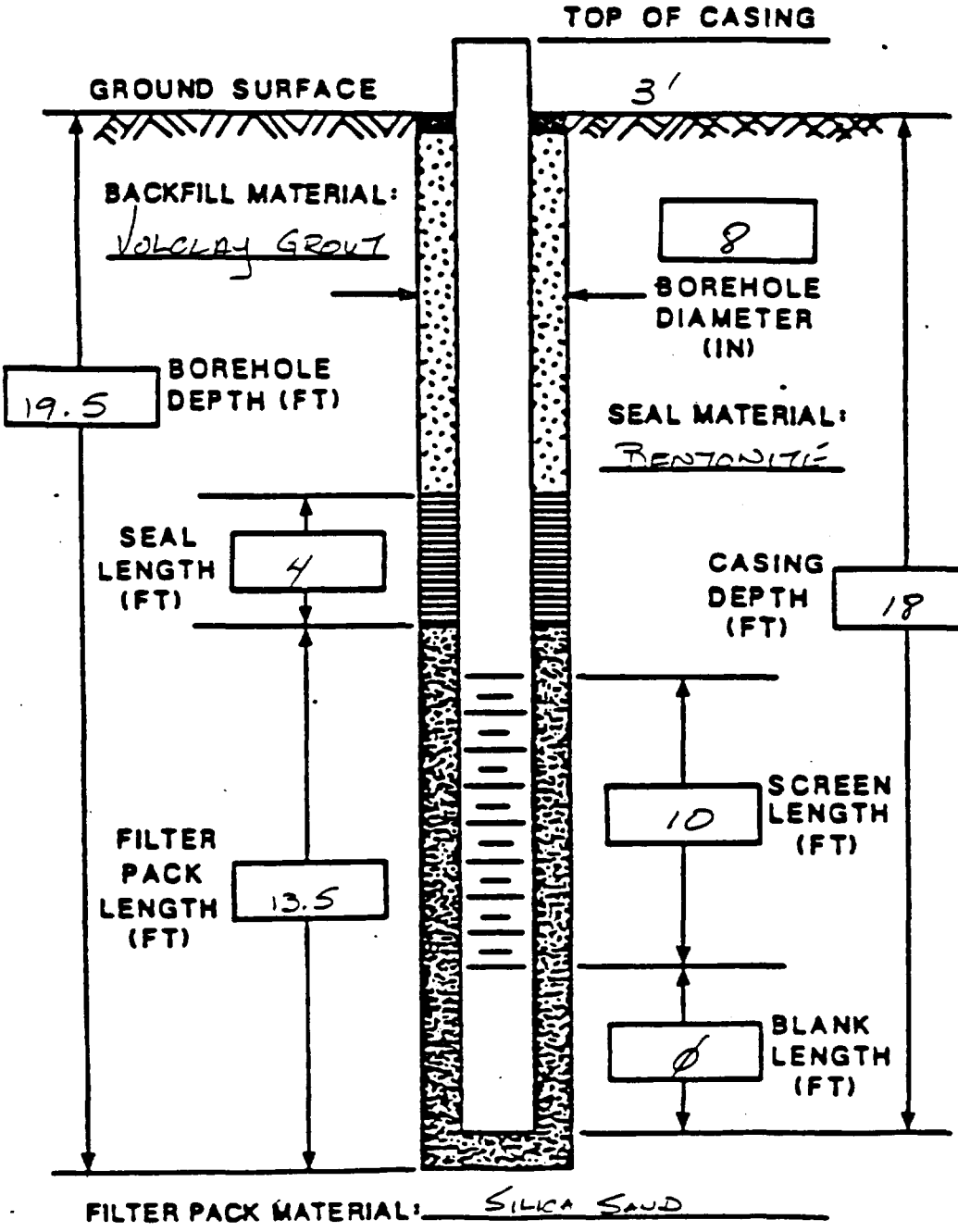
WELL COMPLETION INFORMATION

INSTALLATION ID Elmendorf AFB
LOCATION ID BH-4 (122)
WELL OWNER
WELL TYPE CLASS. MNW
FORMATION OF COMPLETION SAND

LOCATION TYPE WL
INSTALLATION DATE 8/1/88
INSTALLER RIV
WELL COMPLETION METHOD 5
ZONE OF COMPLETION A

SEAL END DEPTH (FT)
MEAS. POINT ELEV. (FTMSL)
CASING DEPTH (FT) 18
CASING DIAMETER (IN) 2
CASING MATERIAL PVC
REMARKS

FILTER PACK LENGTH (FT) 13.5
SCREEN BEGIN. DEPTH (FT) 18
SCREEN LENGTH (FT) 10
SCREEN SLOT SIZE (IN) .010



WELL TYPE CLASSIFICATIONS (WTCODE)
- MNW - MONITORING WELL
- PRW - PRODUCTION WELL
- TST - TEST WELL
- WSW - WATER SUPPLY WELL

CASING MATERIAL (CMACODE)
- ABS - ABS
- BRK - BRICK
- CBS - CARBON STEEL
- CNC - CONCRETE
- COP - COPPER
- FBG - FIBERGLASS
- GLS - GALVANIZED STEEL
- WRI - WROUGHT IRON
- SLS - STAINLESS STEEL
- LCS - LOW CARBON STEEL
- M - OTHER METAL
- TFL - TEFLON
- PLY - POLYPROPYLENE
- PVC - PVC
- RST - ROCK OR STONE
- STL - STEEL
- TIL - TILE
- COS - COATED STEEL
- WD - WOOD

ZONE OF COMPLETION (GZCODE)
- A - AQUIFER
- C - CONFINING LAYER

WELL COMPLETION METHODS: (WCMCODE)
- C - POROUS CONCRETE
- GP - GRAVEL PACK W/PERF.
- GS - GRAVEL PACK W/SCREEN
- H - HORIZONTAL GALLERY
- OE - OPEN END
- P - PERFORATED OR SLOTTE
- S - SCREEN
- SP - SAND POINT
- W - WALLED OR SHORED
- OP - OPEN

BOREHOLE LOG (SOIL)

INSTALLATION ID Elmendorf AFB — LOCATION ID BH-4
LOCATION TYPE BH — LOCATION PROXIMITY I
COORDINATES (FT): NORTH ____ EAST ____
SURFACE ELEVATION (FTMSL) ____
DRILLER CODE DD — CONSTRUCTION METHOD HS
DATE STARTED 8/11/88 — DATE COMPLETED 8/11/88
BOREHOLE DEPTH (FT.) 18ft — BOREHOLE DIAM. (IN) 8.0

GROUNDWATER LEVELS		
DATE	TIME	DEPTH (FT)
8/11/88		10ft ATD

LOCATION DESCRIPTION

MAP REFERENCE ID ____ LOCATION CROSS REFERENCE ____

LITHOLOGIC LOG — LOGGER CODE RH

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
2									CL	CLAY - SOFT, DK. BROWN, LOW PLASTIC, SANDY W/50% FINE TO MED PEBBLE GRAVELS
4										
6	↕	10"		U			N	N		CLAY - SOFT, GRAY TO RUST BROWN, LOW PLASTIC
8									CL	SANDY W/40% GRANULE TO MED. PEBBLE GRAVELS.
10									SP	SAND - DENSE, MED. BROWN, MOD. TO V. COARSE GRAINED, POORLY SORTED, SUB ROUNDED
12	↕	8"		U	122 0001		N	N		V. CLAYEY & SILTY W/GRANULAR TO COARSE PEBBLE GRAVELS.
14										
16	↕	8"		U			N	N		
18										
20	↕	15"		U	122 0002		N	N		CLAY - HARD, GRAY, MED. PLASTIC, SANDY W/ GRANULE TO COARSE GRAVELS
										T.D. 19.5ft
										WELL SET AT 18ft

LOCATION PROXIMITY (LPRCODE)
I - WITHIN INSTALLATION O - OUTSIDE INSTALLATION

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

CONSTRUCTION METHODS (CMCCODE)
- AR - AIR ROTARY
- B - BORED OR AUGERED
- C - CABLE-TOOL
- D - DUG
- HS - HOLLOW STEM AUGER
- J - JETTED
- P - AIR-PERCUSSION
- RM - REVERSE ROTARY, MUD
- T - TRENCHING
- V - DRIVEN
- W - DRIVE AND WASH

SAMPLE METHODS (SSMCODE)
- A - AUGER CUTTINGS
- S - 2" O.D. 1.38" I.D. DRIVE SAMPLE
- U - 3" O.D. 2.42" I.D. TUBE SAMPLE
- T - 3" O.D. THIN-WALLED SHELBY TUBE

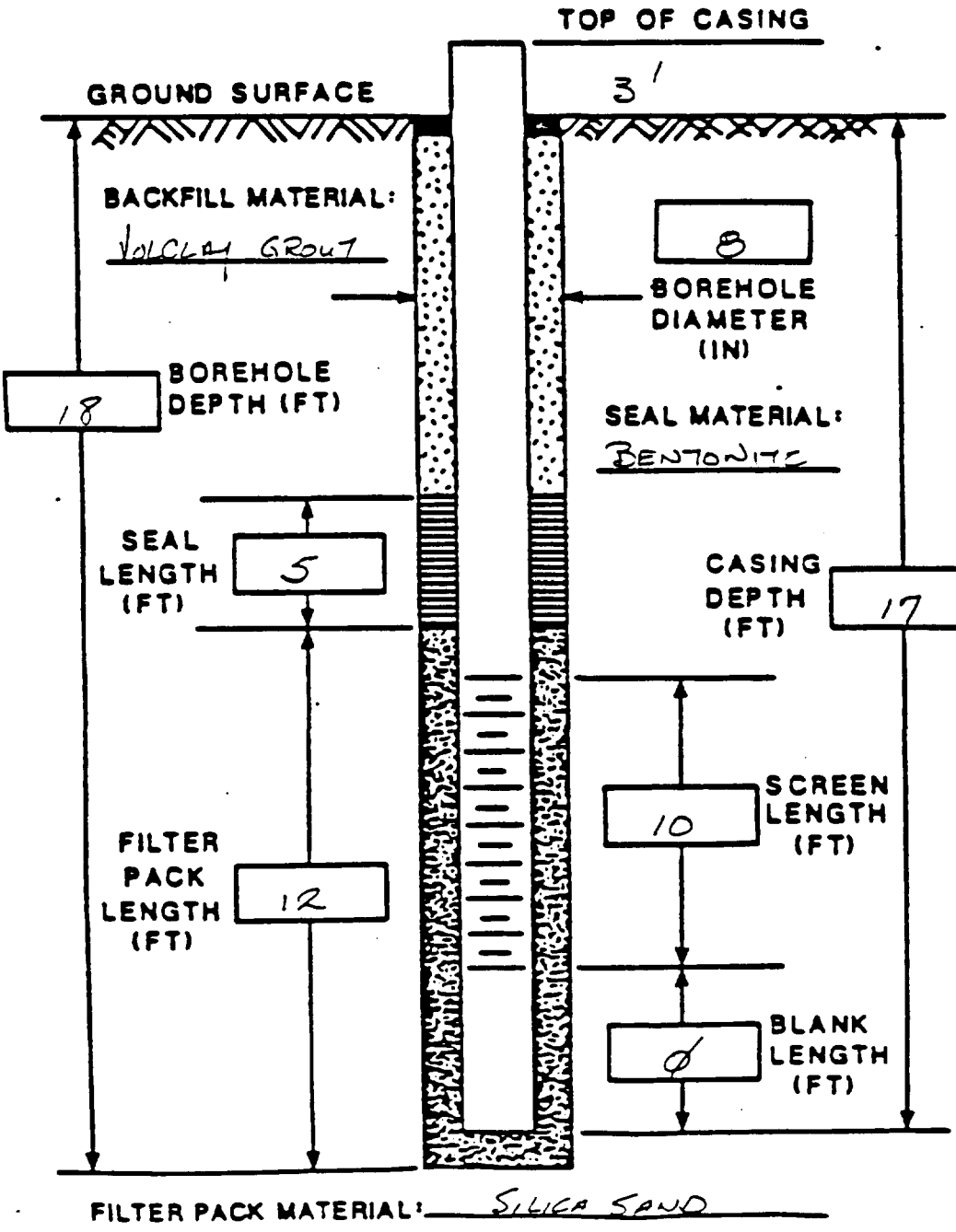
WELL COMPLETION INFORMATION

INSTALLATION ID Elmendorf AFB
LOCATION ID BH-5
WELL OWNER
WELL TYPE CLASS. MNW
FORMATION OF COMPLETION SAND

LOCATION TYPE WL
INSTALLATION DATE 8/20/88
INSTALLER BEV
WELL COMPLETION METHOD S
ZONE OF COMPLETION A

SEAL END DEPTH (FT)
MEAS. POINT ELEV. (FTMSL)
CASING DEPTH (FT) 17
CASING DIAMETER (IN) 2
CASING MATERIAL PVC
REMARKS

FILTER PACK LENGTH (FT) 12
SCREEN BEGIN. DEPTH (FT) 17
SCREEN LENGTH (FT) 10
SCREEN SLOT SIZE (IN) .010



WELL TYPE CLASSIFICATIONS (WTCODE)
- MNW - MONITORING WELL
- PRW - PRODUCTION WELL
- TST - TEST WELL
- WSW - WATER SUPPLY WELL

CASING MATERIAL (CMACODE)
- ABS - ABS
- BRK - BRICK
- CBS - CARBON STEEL
- CNC - CONCRETE
- COP - COPPER
- FBG - FIBERGLASS
- GLS - GALVANIZED STEEL
- WRI - WROUGHT IRON
- SLS - STAINLESS STEEL
- LCS - LOW CARBON STEEL
- M - OTHER METAL
- TFL - TEFLON
- PLY - POLYPROPYLENE
- PVC - PVC
- RST - ROCK OR STONE
- STL - STEEL
- TIL - TILE
- COS - COATED STEEL
- WD - WOOD

ZONE OF COMPLETION (GZCCODE)
- A - AQUIFER
- C - CONFINING LAYER

WELL COMPLETION METHODS (WCMCODE)
- C - POROUS CONCRETE
- GP - GRAVEL PACK W/PERF
- GS - GRAVEL PACK W/SCP
- H - HORIZONTAL GALLERY
- OE - OPEN END
- P - PERFORATED OR SLOTTE
- S - SCREEN
- SP - SAND POINT
- W - WALLED OR SHORED
- OP - OPEN

BOREHOLE LOG (SOIL)

INSTALLATION ID Elmendorf AFB — LOCATION ID BH-5
LOCATION TYPE BH — LOCATION PROXIMITY I
COORDINATES (FT): NORTH ____ EAST ____
SURFACE ELEVATION (FTMSL) ____
DRILLER CODE DD — CONSTRUCTION METHOD HS
DATE STARTED 8/20/88 — DATE COMPLETED 8/20/88
BOREHOLE DEPTH (FT.) 17ft — BOREHOLE DIAM. (IN) 8 IN

GROUNDWATER LEVELS		
DATE	TIME	DEPTH (FT)
8/20/88		10'-2" BTD.

LOCATION DESCRIPTION

MAP REFERENCE ID ____ LOCATION CROSS REFERENCE ____

LITHOLOGIC LOG — LOGGER CODE RH

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
2							5ppm background ?		Fill	FILL - GRAVELS, CLAYS, SILTS
4								H	PT	PEAT - SOFT, BLACK, ORGANIC MATTER & SOAKED GAS
6		14"		U	123 0001			H		CLAY - SOFT, GRAY-BROWN, MED. PLASTIC, SILTY W/GRAVELLY GRAVELS
8										CLAY - STIFF, GRAY, MED. PLASTIC, SILTY, SANDY W/ORGANIC MATTER, WEATHERED
10									CL	CLAY - SOFT, BROWN, LOW PLASTIC, SILTY, SANDY, W/SMALL GRAVELS, V. WEATHERED
12		12"		U			1000 ppm sample	H	SP	SAND - MED. DENSE, DK. BROWN, FINE TO V. COARSE GRAINED, SUB-ROUNDED TO ANGULAR, POORLY
14										SORTED, V. CLAYEY W/GRAVELS TO MOD. POORLY GRADED.
16		15"		U	123 0002		M	H		SAND - MED. DENSE, DK BROWN, FINE TO V. COARSE GRAINED. SUB-ROUNDED, POORLY SORTED W/
18										SMALL GRAVELS & ALTERNATING LAYERS OF SILTY-SANDY, REMOLDED CLAYS.
20										TD - 18ft
										WELL SET @ 17ft

LOCATION PROXIMITY (LPRCODE)
I - WITHIN INSTALLATION O - OUTSIDE INSTALLATION

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

CONSTRUCTION METHODS (CMCCODE)
- AR - AIR ROTARY
- B - BORED OR AUGERED
- C - CABLE-TOOL
- D - DUG
- HS - HOLLOW STEM AUGER
- J - JETTED
- P - AIR-PERCUSSION
- RM - REVERSE ROTARY, MUD
- T - TRENCHING
- V - DRIVEN
- W - DRIVE AND WASH

SAMPLE METHODS (SSMCODE)
- A - AUGER CUTTINGS
- S - 2" O.D. 1.38" I.D. DRIVE SAMPLE
- U - 3" O.D. 2.42" I.D. TUBE SAMPLE
- T - 3" O.D. THIN-WALLED SHELBY TUBE

WELL COMPLETION INFORMATION

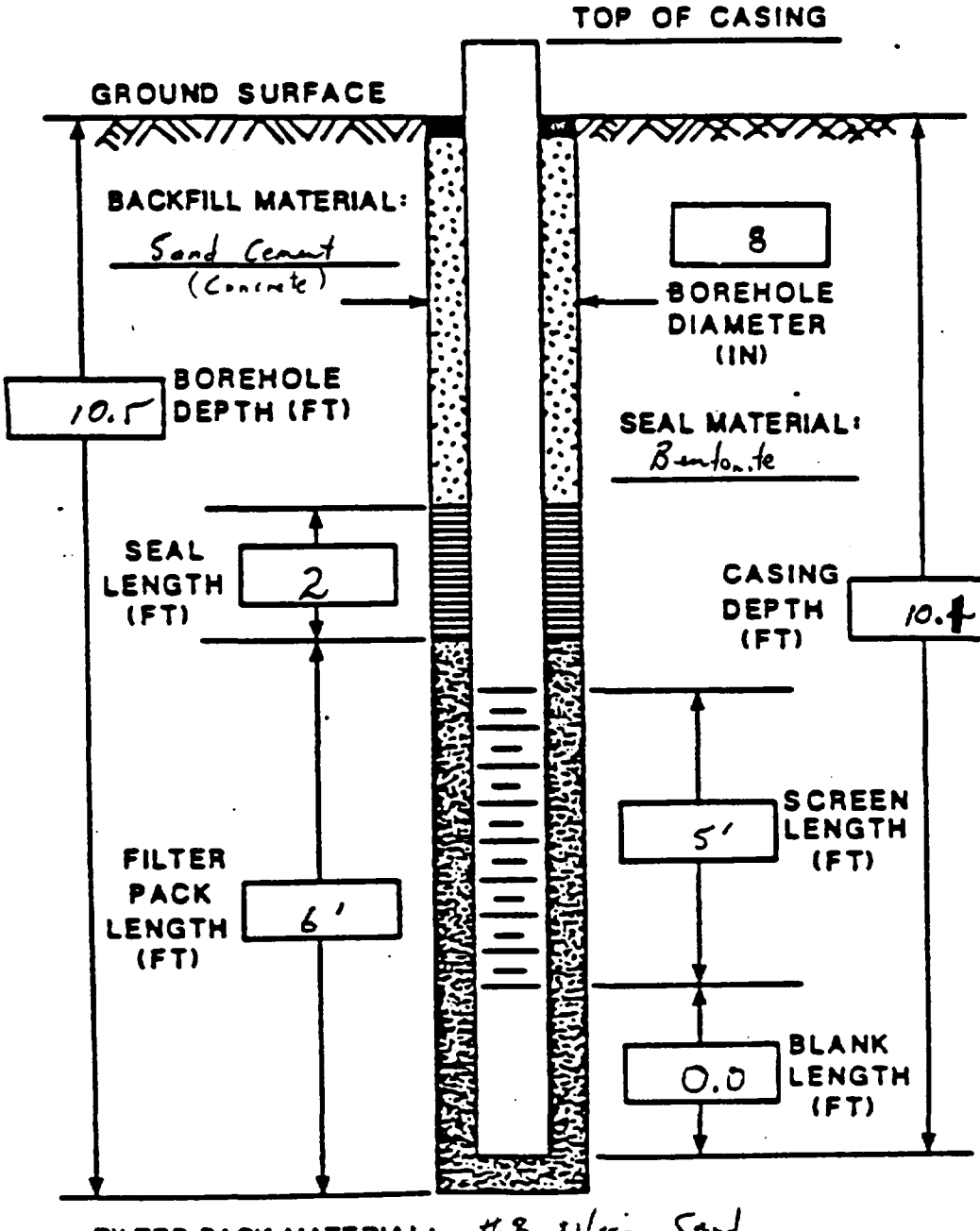
INSTALLATION ID ELM 0687
LOCATION ID B46 (124)
WELL OWNER
WELL TYPE CLASS. MNW
FORMATION OF COMPLETION GW

LOCATION TYPE WL
INSTALLATION DATE SA~ 88
INSTALLER IEA
WELL COMPLETION METHOD
ZONE OF COMPLETION 4.5-10.0 FT

SEAL END DEPTH (FT) 4.5'
MEAS. POINT ELEV. (FTMSL)
CASING DEPTH (FT) 10.1'
CASING DIAMETER (IN) 2"
CASING MATERIAL PVC

FILTER PACK LENGTH (FT) 6'
SCREEN BEGIN. DEPTH (FT) 5.1'
SCREEN LENGTH (FT) 5'
SCREEN SLOT SIZE (IN) .020

REMARKS



FILTER PACK MATERIAL: #8 silica Sand

WELL TYPE CLASSIFICATIONS (WTCODE)
- MNW - MONITORING WELL
- PRW - PRODUCTION WELL
- TST - TEST WELL
- WSW - WATER SUPPLY WELL

CASING MATERIAL (CMACODE)
- ABS - ABS
- BRK - BRICK
- CBS - CARBON STEEL
- CNC - CONCRETE
- COP - COPPER
- FBG - FIBERGLASS
- GLS - GALVANIZED STEEL
- WRI - WROUGHT IRON
- SLS - STAINLESS STEEL
- LCS - LOW CARBON STEEL
- M - OTHER METAL
- TFL - TEFLON
- PLY - POLYPROPYLENE
- PVC - PVC
- RST - ROCK OR STONE
- STL - STEEL
- TIL - TILE
- COS - COATED STEEL
- WD - WOOD

ZONE OF COMPLETION (GZCODE)
- A - AQUIFER
- C - CONFINING LAYER

WELL COMPLETION METHODS: (WCMCODE)
- C - POROUS CONCRETE
- GP - GRAVEL PACK W/PERF.
- GS - GRAVEL PACK W/SCREE
- H - HORIZONTAL GALLERY
- OE - OPEN END
- P - PERFORATED OR SLOTTE
- S - SCREEN
- SP - SAND POINT
- W - WALLED OR SHORED
- OP - OPEN

BOREHOLE LOG (SOIL)

INSTALLATION ID ELM 0637 LOCATION ID BH-6 (124)
LOCATION TYPE BH LOCATION PROXIMITY ____
COORDINATES (FT): NORTH ____ EAST ____
SURFACE ELEVATION (FTMSL) ____
DRILLER CODE ____ CONSTRUCTION METHOD HS
DATE STARTED 4 Aug 88 1600 DATE COMPLETED 5 Aug 88
BOREHOLE DEPTH (FT.) 10.4' BOREHOLE DIAM. (IN) 8"

GROUNDWATER LEVELS		
DATE	TIME	DEPTH (FT)
~~8/2~~ 8/5/88	0820	9.4'

LOCATION DESCRIPTION

MAP REFERENCE ID ____ LOCATION CROSS REFERENCE ____

LITHOLOGIC LOG LOGGER CODE KFM

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	TEMP °F	VOC PPM	ODOR	CLASS/ CODE	VISUAL DESCRIPTION
1										
3										
5	X				124 0001		0ppm	N	GW	Red Brn Slightly Silty Sand, Gravel
7	X									+ Some Organics Dry
9										
11	X				124 0002		0ppm	N	GW-GM	Gray Saturated Silty Gravel
										Gray Silt & Clay / Bentonite Seal

LOCATION PROXIMITY (LPRCODE)
I - WITHIN INSTALLATION O - OUTSIDE INSTALLATION

CLASS/CODE - SEE SRTCODE LIST, THEN APPROPRIATE CODE LIST

CONSTRUCTION METHODS (CMCCODE)

AR - AIR ROTARY
B - BORED OR AUGERED
C - CABLE-TOOL
D - DUG
HS - HOLLOW STEM AUGER
J - JETTED
P - AIR-PERCUSSION
RM - REVERSE ROTARY, MUD
T - TRENCHING
V - DRIVEN
W - DRIVE AND WASH

SAMPLE METHODS (SSMCODE)

A - AUGER CUTTINGS
S - 2" O.D 1.38" I.D. DRIVE SAMPLE
U - 3" O.D. 2.42" I.D. TUBE SAMPLE
T - 3" O.D. THIN-WALLED SHELBY TUBE

Wells capped

Well #	BLDG #	Depth	Casesize	Current	Pe/16
2	33-040-300	78'	6	30	78-
3	23-420	153'	6	104	104
4	23-040-396	45'	8	35	35
14	73-400	60'	8	12	25
30	62-700	142'	6	18	18
31	24-500	158'	6	60	60
35	24-705	405'	6	12	12
36	24-025	189'	6	12	12
44		87'	6	20	20
20	52-812	70'		9	25
		202'		12	12
		189'		12	12

locations capped wells

N 112 (OLD Round House)
E 114

N 105 (Artesian Village - south)
E 114

N 106 (Artesian Village - North)
E 114

Small arms Range (outdoors) (old AFCS Rec. site)
N 128 (Fish Camp) (D Battery)
E 105

N 107 (Bureau of Land Management) (C Battery)
E 116

N 120 (site 3)
E 120

N 105 (site 5)
E 117

N 129 (6 mile Lake) (21st Trans. Squad)
E 111

Hill berg Lake (resident)

Site-6

Site 2

PERIODIC MONITORING REQUIREMENTS (CONT'D)

POTABLE GROUNDWATER (CLASS A SYSTEMS) SAMPLING

Sample once every 3 years

SAMPLING POINT LOCATION	ID NUMBER	LATITUDE/LONGITUDE	ANALYSIS
Base Water Well #1 (23-990)	0687-PG-001	61°14'21"N/149°47'23"W	Atch 5*
Base Water Well #2 (22-001)	0687-PG-002	61°13'52"N/149°50'13"W	Atch 5
Base Water Well #16 (32-139)	0687-PG-016	61°14'47"N/149°49'39"W	Atch 5
Base Water Well #42 (11-200)	0687-PG-042	61°14'43"N/149°47'54"W	Atch 5
Base Water Well #43 (24-300)	0687-PG-043	61°14'07"N/149°44'59"W	Atch 5

POTABLE GROUNDWATER (CLASS B SYSTEMS) SAMPLING

Nitrate
Chlorine
Coliform

Base Water Well #7 (52-820)	0687-PG-007	61°16'33"N/149°49'04"W	Atch 7
Base Water Well #52 (23-100)	0687-PG-052	61°14'05"N/149°48'57"W	Atch 7

POTABLE GROUNDWATER (CLASS C SYSTEMS) SAMPLING

SAMPLING POINT LOCATION	ID NUMBER	LATITUDE/LONGITUDE	ANALYSIS
Base Water Well #4 (53-600)	0687-PG-004	61°17'32"N/149°47'57"W	Atch 5
Base Water Well #8 (52-140)	0687-PG-008	61°16'17"N/149°49'50"W	Atch 5
Base Water Well #24 (52-668)	0687-PG-024	61°16'54"N/149°50'03"W	Atch 5
Base Water Well #25 (63-320)	0687-PG-025	61°17'09"N/149°46'34"W	Atch 5
Base Water Well #27 (62-250)	0687-PG-027	61°17'01"N/149°49'22"W	Atch 5
Base Water Well #29 (42-500)	0687-PG-029	61°15'40"N/149°49'45"W	Atch 5
Base Water Well #39 (35-750)	0687-PG-039	61°14'53"N/149°43'13"W	Atch 5
Base Water Well #40 (5-800)	0687-PG-040	61°14'40"N/149°48'32"W	Atch 5
Base Water Well #46 (63-621)	0687-PG-046	61°17'33"N/149°47'45"W	Atch 5
Base Water Well #47 (63-740)	0687-PG-047	61°17'26"N/149°47'32"W	Atch 5
Base Water Well #49 (52-560)	0687-PG-049	61°16'45"N/149°49'53"W	Atch 5
Base Water Well #50 (24-300)	0687-PG-050	61°13'59"N/149°46'11"W	Atch 5
Base Water Well #51 (63-501)	0687-PG-051	61°17'10"N/149°47'27"W	Atch 5
Base Water Well #53 (62-145)	0687-PG-053	61°17'42"N/149°48'43"W	Atch 5

BASE DRINKING WATER DISTRIBUTION SYSTEM SAMPLING

SAMPLING POINT LOCATION	ID NUMBER	LATITUDE/LONGITUDE	ANALYSIS
Kenai Dining Hall (1-836)	0687-PD-113	61°14'28"N/149°48'00"W	Atch 5
6981SES Lobby Restroom (41-760)	0687-PD-114	61°15'53"N/149°50'38"W	Atch 5
BES Water Laboratory (24-311)	0687-PD-115	61°13'39"N/149°44'36"W	Atch 5
Hospital Diet Kitchen (24-850)	0687-PD-116	61°14'05"N/149°44'58"W	Atch 5

*Well #1 has been classified as vulnerable to surface water contamination and requires annual volatile organic sampling (EPA Method 502.2) in addition to the requirements in Atch 5.

Table 3.8.

WELLS AT ELMENDORF AFB

WELL	BUILDING	DEPTH (ft)	AQUIFER*	YIELD (gpm)	CONDITION	LOCATION
1	23-990	16.	S	1350	in use	South of North-South Runway
2	22-001	850.	A	840	in use	South of West Power Plant
4	63-600	78.	S	7	in use	Returnagain Six Mile Lake
8	52-140	252.	A	12	in use	EMS Office Loop Road
16	32-189	228.	A	95	in use	Standby Diesel Plant
24	52-668	38.	S	8	in use	Generals Cabin Green Lake
25	63-320	155.	A	9	in use	Underground Six Mile Lake
27	62-250	210.	A	12	in use	Receiver Site
29	42-500	406.	A	40	in use	C.A.P.
39	35-750	141.	A	115	in use	Transmitter Ft. Richardson
40	5-800	209.	A	228	in use	AAC 5-800
41	52-820	56.	S	12	in use	Hillberg Lake Ski Bowl
42	11-200	225.	A	139	in use	DAC Building
43	24-800	159.	A	54	in use	USAF Hospital
46	63-621	60.	S	10	in use	Chalet MAC Six Mile Lake
47	63-740	23.	S	16	in use	CE Shady Lane Six Mile Lake
49	52-560	130.5	A	16	in use	Green Lake Rec Area
50	BLM	-	-	-	in use	Oil Well Road
51	63-501	-	-	-	in use	6981st Rec Area Six Mile Lake
52	23-100	166.	A	36	in use	Golf Course Pro Shop
53	62-145	125.	A	8	in use	EMS Ammo Storage Six Mile Lal
23	33-358	71.	S	36	inactive	Riding Stables
32	52-725	246.	A	12	inactive	Gun Site No. 1
34	53-125	186.	A	12	inactive	Gun Site No. 10
45	63-552	40.	S	50	inactive	Ranch Six Mile Lake
48	63-612	109.5	A	30	inactive	Field Maint. Six Mile Lake
54	62-140	-	-	-	inactive	EMS Six Mile Lake
2 old	33-000	78.	S	30	inactive	Old Round House
3	23-400	153.	A	104	inactive	Artesian Village, South
6	44-544	314.	A	40	inactive	Old 625 Radar
30	62-700	142.	A	18	inactive	Fish Camp O Battery
31	24-500	158.	A	60	inactive	BLM Old C Battery
—	64-560	-	-	-	inactive	—
35	44-705	405.	A	12	inactive	Site No. 3
36	24-025	189.	A	12	inactive	Site No. 5
4 old	23-396	45.	S	35	abandoned	Artesian Village, North
14	73-400	60.	S	12	abandoned	Old AFSC Receiver Site
20	52-812	70.	S	9	abandoned	Hillberg Lake (Resident)
—	—	202.	A	12	abandoned	Site No. 6
—	—	189.	A	12	abandoned	Site No. 2
44	63-615	87.	S	20	abandoned	Six Mile Lake, 21st Trans

*A = artesian, S = shallow.

Note: Three wells on Hospital Line: 1. 1000 gpm; 2. 1000 gpm; 3. 800 gpm.

Source: Installation Documents, 1983.

WELL DATA

John Barbar

WELLS IN USE

THE FOLLOWING LIST OF WELLS ARE SERVICED BY THE WATER SUPPLY & PURIFICATION SECTION, ELM AFB, ALASKA

WELL NO.	BLDG.	DEPTH	CASING SIZE	CURRENT GMP	DRILLER CAPACITY GMP	LOCATION
2/7 1	23-990	16'	RECT. CONCR.	1350	1125	~~STANDBY PUMPHOUSE~~
2/7 2	22-001	850'	24" 18" 16"	840	1437	WEST ELMENDORF PUMPHOUSE
6 of 7 4	63-600	78'	6"	7	7	6 MILE LAKE (RETURNAGAIN)
4 of 7 8	52-140	252'	6"	12	12	HEAVY EQUIPMENT SCHOOL
2 of 7 16	32-189	228'	8"	95	85	STANDBY DIESEL PLANT
3 of 7 23	33-358	71'	6"	36	36	RIDING STABLES
4 of 7 24	52-668	38'	6"	8	16	~~GENERAL'S CABIN (GREEN LAKE)~~
active 7 of 7 25	63-320	155'	6"	9	20	UNDERGROUND (HOSPITAL SUPPLY)
6 of 7 27	62-250	210'	6"	12	12	AFSC RECEIVER SITE
4 of 7 29	42-500	406'	8" 6"	40	40	RAPCON (FAA)
32	52-725	246'	6"	12	12	21st AP REC AREA (SITE 1)
4 of 7 34	53-125	186'	6"	12	12	71ST. AIR RESCUE REC. AREA (SITE 10)
3 of 7 39	35-750	141'	8"	115	270	AFSC TRANSMITTER (FORT RICH)
2 of 7 40	5-800	209'	8"	228	310	AAC
4 of 7 41	52-820	56'	6"	12	12	SKI BOWL (HILLBERG LAKE)
2 of 7 42	11-200	225'	8"	130	300	DACAL
of 7 → 3/7 43	24-800	159'	10"	337	250	USAF HOSPITAL
7 45	63-552	40'	6"	50	50	RANCH 1931st COMM REC AREA (6 MILE LAKE)
of 7 46	63-621	60'	6"	10	10	CHALET MAC REC AREA (6 MILE LAKE)
active 6 of 7 47	63-740	23'	6"	16	16	SHADY LANE 21ST. CES REC AREA (6 MILE LAKE)
5 of 7 48	63-612	109' 6"	6"	30	55	FIELD MAINT. REC AREA (6 MILE LAKE)
3 of 7 49	52-560	130' 6"	6"	16	16	~~GREEN LAKE REC AREA~~
3 of 7 50	BLM	217'	6' 8"	42	42	NORTH OILWELL ROAD
51	63-501					6981ST. REC AREA (6 MILE LAKE)
52	23-100	166'		36	50	GOLF COURSE PRO SHOP
6 of 7 53	62-145	125'			8	~~AMMO STORAGE AREA (6 MILE LAKE)~~

WELLS CAPPED = covered, but still useable

2	(OLD) 33-300	78'	6"	30	75	N 112 (OLD ROUND HOUSE) E 114
3 of 7 3	23-420	153'	6"	104	104	N 105 (ARTESIAN VILLAGE)(SOUTH) E 114
3 of 7 4	(OLD) 23-396	45'	8"	35	35	N 106 (ARTESIAN VILLAGE)(NORTH) E 114
7 of 7 14	73-400	60'	8"	12	25	SMALL ARMS RANGE (OUTDOOR)(OLD AFCS REC. SITE)
6 of 7 30	62-700	142'	6"	18	18	N 128 (FISH CAMP)(D BATTERY) E 105
3 of 7 31	24-500	158'	6"	60	60	N 107 (BUREAU OF LAND MANAGEMENT)(C BATTERY) E 116
5 of 7 35	24-705	405'	6"	12	12	N 120 (SITE 3) E 120
3 of 7 36	24-025	189'	6"	12	12	N 105 (SITE 5) E 117
6 of 7 44		87'	6"	20	20	N 129 (6 MILE LAKE) 21ST TRANSPORTATION SQ. E 111
20	52-812	70'		9	25	HILLBURG LAKE (RESIDENT)
		202'		12	12	SITE 6
		189'		12	12	SITE 2

no info on abandoned wells

FORM NO 9-1904—A

SITE NO. AKRG 1453

U.S. DEPT. OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION
GROUND WATER SITE INVENTORY
SITE SCHEDULE

Recorded by: ATTWOOD-MORGAN

Date: 6-21-77

#2

Check One: ✓ English — Metric Units

GENERAL SITE DATA (0)

Site Ident No: 611436/1497354 0 1 (5 ... 19)

RG Number: R-0*

Transaction: T-(A) D M V * (add, delete, modify, verified)

Site-Type: 2-(W)* (collector, drain, sinkhole, connector, multiple, pond, tunnel or well shaft, well)

Data Reliability: 3-(C)* (field checked, unchecked, location not accurate, minimal data)

Reporting Agency: 4-USGS*

Project No.: 5-*

District: 6-02*

State: 7-02*

County (or town): ANCH 8-020*

Latitude: 9-611436* (deg min sec)

Longitude: 10-1497354* (deg min sec)

Lat-Long Accuracy: 11-S(F)T M* (sec, 5 sec, 10 sec, Min)

Local Number: 12-SB01N03E03CACC1 004*

Land Net Loc.: 13-SW NE SW 03 T 013N R 003W S* (1/4 1/4 1/4 section, township, range, meridian)

Location Map: 14-ANCHORAGE & VICINITY*

Scale: 15-24,000*

Altitude: 16-182*

Method of Measurement: 17-A L (M)* (altimeter, level, map)

Accuracy: 18-10*

Topo Setting: 19-D C E (F) H K L Ø P S T U V W* (depression, stream, dunes-hill, hilltop, sink, swamp, offshore, pediment, hillside, terrace, undulating, valley, upland flat, draw, channel)

Hydrologic Unit (OWDC): 20-19050002*

Date of First Construction/Completion: 21-01 00 1962* (month day year)

Use of Site: 23-A D E G H Ø M P R S T U (W) X Z* (anode, drain, geothermal, seismic, heat, observation, mine, oil or gas, recharge, repress, test, unused, withdrawal, waste, destroyed)

Use of Water: 24-A B C D E F H I M N (P) R S T U Y Z* (air cond., bottling, commercial, dewater, power, fire, domestic, irrigation, medicinal, industrial, public supply, recreation, stock, institution, unused, desal, other)

Secondary Water Use: 25-* Tertiary Use of Water: 26-* Depth of Hole: 27-227.* Depth of Well: 28-225.* Source of Depth Data①: 29-D*

Water Level: 30-93.5* Date Measured: 31-01 00 1962* (month day year) Source①: 33-D

Method of Measurement: 34-A C E G H L M (R) S T V Z* (airline, calibrated, airline; estimated, pressure gage; calibrated, pressure gage; geophysical, logs; manometer, reported, steel tape; electric, tape; calibrated, electric tape; other)

Site Status: 37-D F G H Ø P R S T V X Z* (dry, flowing, nearby, flowing; nearby, recently flowing; obstruction, pumping; recently pumped; nearby, pumping; nearby, recently pumped; foreign substance; surface water affects; other)

273 = 4 *

Source of Geohydrologic Data①: 36-* Pump Used: 35-* (no) Measuring Point: 266--4.0* Measuring Point Date: 267-01 00 1962* (month day year)

OWNER IDENTIFICATION (1)

R-158* T-(A) D M* (add, delete, modify) Date of Ownership: 159#01 00 1962* (month day year)

Name: Last: 161-USAF* First: 162-ELMENDORF* 162>ELMNDORF* Middle Initial: 163-*

OTHER SITE IDENTIFICATION NUMBERS (1)

R-189* T-(A) D M* (add, delete, modify)

Ident: 190#7558* Assigner: 191=LABS*

Ident: 190#004* Assigner: 191-AKMP*

New Card Same R & T

Ident: 190#01453* Assigner: 191-AKRG*

190#8371* 191=LABS*

SITE VISIT DATA (1)

R-186* T-A D M* (add, delete, modify) Date of Visit: 187#/ / * (month day year) Name of Person: 188-*

FIELD WATER QUALITY MEASUREMENTS (1)

R-192* T-(A) D M* (add, delete, modify) Date: 193#02 23 1965* (month day year) Geohydrologic Unit: 195#1100RNR*

New Card Same R thru 195

Temperature: 196#00010* Degrees C: 197-4.0*

Conductance: 196#00095* µMhos: 197-217.*

Other (STORET) Parameter: 196#* Value: 197-.*

Other (STORET) Parameter: 196#* Value: 197-.*

FOOT NOTES:

①Source of Data Codes:

S D Ø A R L G Z (reporting agency; driller, owner, other gov't, other reported; logs; geologist, other)

	INITIALS
AKRG	
HEADER	5-21-77
WATER LEVEL	6-21-77
KEY PUNCH	KR
PRINT OUT OK'D	Lisa

	DATE
REMARK	
0K	5-21-77
0K	6-21-77
N	11/09/77
	11-29-77
OK	

New Card - Same R thru T

190#11713* 191=LABS*
190#12354* 191=LABS*
190#11442* 191=LABS*
190#7964* 191=LABS*
190#10031* 191=LABS*
190#9852* 191=LABS*
190#13399* 191=LABS*
190#14527* 191=LABS*
190#15390* 191=LABS*
190#USAFBNC42-24*
191=ELMENDORF*
190#UNCONSOL*
191=UNKNOWN*

270

USAF #42
Bldg 11-200

0-11- GRAVEL FILL
11-57- SANDY GRAVEL, BROWN, RUSTY
57-66- GRAVELLY SAND, H_2O BEARING - HEAVING
66- — SOFT COAL IN SAND
66-97 - SILTY SAND - HEAVING
97-177- SANDY CLAY BLUISH
177-194- SILTY ~~SAND~~ GRAVEL SAND
194-199 H_2O SAND
199-202- GRAVELLY SAND, GRAVELLY CLAY
2-212 - SANDY GRAVEL
-220 . SILTY GRAVEL, GRAVELLY CLAY
220-227 . GRAVELLY SAND
227 — - CLAY - IMPERVIOUS,

SD 15-03-07DDCD1-3

FORM NO 9-1904– A

SITE NO AKRG 25

Recorded by ATLWOOD WALLER

U.S. DEPT. OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION
GROUND WATER SITE INVENTORY
SITE SCHEDULE

Date 6-21-77

Check One ✓ English ___ Metric Units

GENERAL SITE DATA (0)

Site Ident No 61149N147W33301 (5 … 19) | RG Number R-0 | Transaction T- (A) D M V (add, delete, modify, verified)

Site-Type 2- C D H I M P T (W) (collector, drain, sinkhole, connector, multiple, pond, tunnel or shaft, well) | Data Reliability 3- (C) U L M (field checked, unchecked, location not accurate, minimal data) | Reporting Agency 4- USGS

Project No. 5- | District 6- 02 | State 7- 02 | County (or town) ANCH | 8- 020

Latitude 9- 61 14 18 (deg min sec) | Longitude 10- 149 49 33 (deg min sec) | Lat-Long Accuracy 11- S (F) T M (sec, 5 sec, 10 sec, Min)

Local Number 12- SB013003.04BDCD1 .002 | Land Net Loc. 13- SW SE NW 1/4 1/4 1/4 S 04 section, T 013N township, R 003W range, S meridian

Location Map 14- ANCHORAGE & VICINITY | Scale 15- 24000

Altitude 16- 162 | Method of Measurement 17- A L (M) altimeter, level, | Accuracy 18- 10

Topo Setting 19- D C E (F) H K L Ø P S T U V W (depression, stream, channel, dunes, flat, hilltop, sink, swamp, offshore, pediment, hillside, terrace, undulating, valley, upland flat draw) | Hydrologic Unit (OWDC) 20- 19050002

Date of First Construction/Completion 21- 00/00/1943 (month day year) | Use of Site 23- A D E G H Ø M P R S T U (W) X Z (anode, drain, geothermal, seismic, heat recovery, observation, mine, oil or gas, recharge, reprocessing, test, unused, waste, wasteful drawal, destroyed)

Use of Water 24- A B C D E F H I M N (P) R S T U Y Z (air cond., bottling, commercial, dewater, power, fire, domestic, irrigation, medicinal, industrial, public supply, recreation, stock, institution, unused, desal, other)

Secondary Water Use 25- | Tertiary Use of Water 26- | Depth of Hole 27- 228 | Depth of Well 28- 228 | Source of Depth Data ① 29- Ø

Water Level 30- 154 | Date Measured 31- 03/07/1966 (month day year) | Source ① 33- Ø

Method of Measurement 34- A C E G H L M (R) S T V Z (airline, calibrated, estimated, pressure gage, calibrated pressure gage, geophysical log, manometer, reported, steel tape, electric, calibrated electric tape, other)

273= Y *

Site Status 37- D F G H Ø P R S T V X (dry, flowing, nearby flowing, nearby recently flowing, obstruction, pumping, recently pumped, nearby pumping, nearby recently pumped, foreign substance, surface water effects, other)

Source of Geohydrologic Data ① 35- | Pump Used 35- (no) | Measuring Point 266- | Measuring Point Date 267- (month day year)

OWNER IDENTIFICATION (1)

R-158 | T- (A) D M (add, delete, modify) | Date of Ownership 159 # 00/00/1949 (month day year)

Name: Last 161- USAF | First 162- ELMENDORF ~~AFB~~ | Middle Initial 163-

162= ELMNDOR *

OTHER SITE IDENTIFICATION NUMBERS (1)

190# USAF & E-6 → 191= ELMENDORF

R-189 | T- (A) D M (add, delete, modify) | Ident 190 # 002 | Assigner 191- AKMP

New Card Same R & T | Ident 190 # 0.0025 | Assigner 191- AKRG

SITE VISIT DATA (1)

R-186 | T- A D M (add, delete, modify) | Date of Visit 187# (month day year) | Name of Person 188-

FIELD WATER QUALITY MEASUREMENTS (1)

R-192 | T- A D M (add, delete, modify) | Date 193 # (month day year) | Geohydrologic Unit 195 #

New Card Same R thru 195

Temperature 196 # 0 0 0 1 0 | Degree C 197-

Conductance 196 # 0 0 0 9 5 | µ Mhos 197-

Other (STORET) Parameter 196 # | Value 197-

Other (STORET) Parameter 196 # | Value 197-

New Card Same R & T

FOOT NOTES:

① Source of Data Codes:

S D Ø A R L G Z (reporting agency, driller, owner, other gov't, other reported, logs, geologist, other)

190# 10730 * 191 = LAB *
190# 11064 * 191 = LAB *
190# 13397 * 191 = LAB *
190# 14516 * 191 = LAB *
190# 15380 * 191 = LAB *
190# UNCONSOL * 191 = CONFINED *

190# 533 * 191 = LAB *
190# 1687 * 191 = LAB *
190# 2365 * 191 = LAB *
190# 2843 * 191 = LAB *
190# 3470 * 191 = LAB *
190# 6064 * 191 = LAB *
190# 6515 * 191 = LAB *
190# 6960 * 191 = LAB *
190# 7954 * 191 = LAB *
190# 8375 * 191 = LAB *
190# 8806 * 191 = LAB *

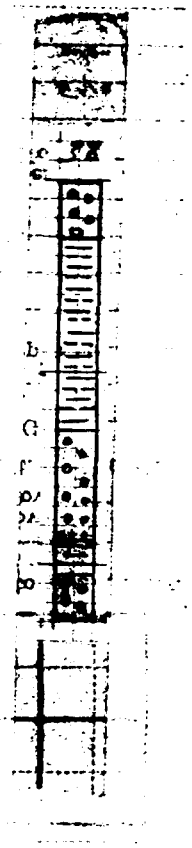
REMARK	DATE	INITIALS
AKRG	6-22-77	
HEADER LEVEL	6-22-77	
WATER LEVEL	6-22-77	KD
KEY PUNCH	11-29-77	KD
POINT OUT OK'D	12-1-77	

271

log
0 - gravel
30 - ~~Blue~~ mud
130 - gravel
185 - Sand
190 - ~~Blue~~ mud
203 - gravel
226

Test # 1 Air Depot

Coord. N 112 775
E 106 775



SB 13-03-04DADB1-3

FORM NO 9-1904— A

SITE NO. AKRG 1455

Recorded by ATWOOD-MORGAN

U.S. DEPT. OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION
GROUND WATER SITE INVENTORY
SITE SCHEDULE

Date 6-21-77

Check One ✓ English — Metric Units

	INITIALS	
AKRG		
HEADER	OK	6-22-77
WATER LEVEL	OK	6-22-77
KEY PUNCH	N	11/01/77 CLC
PRINT OUT OK'D	OK	12-14-77 CLC

GENERAL SITE DATA (0)

Site Ident No. 61 14 40 149 48 32 01 (19)

RG Number R-0*

Transaction T-(A) D M V * (add, delete, modify, verified)

Site-Type 2- C D H I M P T (W)* (collector, drain, sinkhole, nonreactor, multiple, pond, tunnel, well, shaft)

Data Reliability 3- C (U) L M * (field checked, unchecked, location not accurate, minimal data)

Reporting Agency 4- USGS *

Project No. 5- *

District 6- 02 *

State 7- 02 *

County (or town) ANCH 8- 020 *

Latitude 9- 61 14 40 * (deg min sec)

Longitude 10- 149 48 32 * (deg min sec)

Lat-Long Accuracy 11- S (T) M * (sec, tenths, 10 sec, Min)

Local Number 12- SB0130304DADB1 003 *

Land Net Loc. 13- SE NE SE 04 T 013N R 003W S * (1/4 1/4 1/4 section, township, range, meridian)

Location Map 14- ANCHORAGE & VICINITY *

Scale 15- 24000 *

Altitude 16- 174. * (altimeter, level, MSP)

Method of Measurement 17- A L (M) *

Accuracy 18- 10 *

Topo Setting 19- D C E (F) H K L Ø P S T U V W * (depression, stream channel, dunes, flat, hilltop, sink, swamp, offshore, pediment, hillside, terrace, undulating, valley, upland draw)

Hydrologic Unit (OWDC) 20- 19050002 *

Date of First Construction/Completion 21- 05 (month) 70 (day) 1961 (year) *

Use of Site 23- A D E G H Ø M P R S T U (W) X Z * (anode, drain, geothermal, seismic, heat, observation, mine, oil or gas, recharge, repress, test, unused, water waste, destroyed drawal)

Use of Water 24- A B C D E F H I M N (P) R S T U Y Z * (air cond., bottling, commercial, dewater, power, fire, domestic, irrigation, medicinal, industrial, public supply, recreation, stock, institution, unused, desal, other)

Secondary Water Use 25- *

Tertiary Use of Water 26- *

Depth of Hole 27- 209. *

Depth of Well 28- 209. *

Source of Depth Data ① 29- (Ø) *

Water Level 30- 71.5 *

Date Measured 31- 05 (month) 02 (day) 1961 (year) *

Source ① 33- (Ø) *

Method of Measurement 34- A C E G H L M (R) S T V Z * (airline, calibrated airline, estimated, pressure gage, calibrated pressure gage, geophysical logs, manometer, reported, steel tape, electric tape, calibrated electric tape, other)

273= 4 *

Site Status 37- D F G H Ø P R S T V X * (dry, flowing, nearby flowing, nearby recently flowing, obstruction, pumping, recently pumped, nearby pumping, nearby recently pumped, foreign substances, surface water effects, other)

Source of Geohydrologic Data ① 36- *

Pump Used 35- 4 (no)

Measuring Point 266- *

Measuring Point Date 267- / / * (month day year)

OWNER IDENTIFICATION (1)

R-158 *

T-(A) D M * (add, delete, modify)

Date of Ownership 159 # 05 (month) 01 (day) 1961 (year) *

Name: Last 161- USAF *

First ~~162-~~ ELMENDORF *

162= ELMNDORF *

Middle Initial 163- *

OTHER SITE IDENTIFICATION NUMBERS (1)

190# USAF & E40 *

191 = ELMENDORF *

R-189 *

T-(A) D M * (add, delete, modify)

Ident 190# 003 *

Assigner 191- AKMP *

New Card Same R & T

Ident 190# 01455 *

Assigner 191- AKRG *

190# UNCONSOL * NFCONFINED *

SITE VISIT DATA (1)

R-186 *

T- A D M * (add, delete, modify)

Date of Visit 187# / / * (month day year)

Name of Person 188- *

FIELD WATER QUALITY MEASUREMENTS (1)

R-192 *

T- A D M * (add, delete, modify)

Date 193 # / / * (month day year)

Geohydrologic Unit 195 # *

New Card Same R thru 19S

Temperature 196# 0 0 0 1 0 * Degree C 197- *

Conductance 196# 0 0 0 9 5 * µ Mhos 197- *

Other (STORET) Parameter 196# * Value 197- *

Other (STORET) Parameter 196# * Value 197- *

New Card Same R & T

190# 6512 * 191 = AKG *

190# 6967 * 191 = AKG *

190# 7556 * 191 = AKG *

190# 7963 * 191 = AKG *

190# 8377 * 191 = AKG *

190# 8910 * 191 = AKG *

190# 10733 * 191 = AKG *

190# 11441 * 191 = AKG *

190# 12339 * 191 = AKG *

190# 13398 * 191 = AKG *

190# 19525 * 191 = AKG *

190# 15389 * 191 = AKG *

FOOT NOTES:

① Source of Data Codes:

S D Ø A R L G Z (reporting agency, driller, owner, other gov't, other reported, logs, geologist, other)

272

Bldg 5-80

0-29 - SILTY GRAVEL
29-34 - SANDY GRAVEL
34-36 - SILTY GRAVELLY SAND
36-62 - SANDY GRAVEL
62-72 - GRAVELLY SAND
72-103 - CLAY
103-136 - GRAVELLY SAND
136-170 - SAND
170-190 - SILTY GRAVELLY SAND
190-194 - SAND
194-200 - SAND, VERY COARSE
200-209 - GRAVELLY SAND
209 - SAND AT 209

FORM NO. 9–1904–A
Revised September 1980

SITE NO. SB 13-3-8DAAA1-1

Recorded by R.A. Warnock

U.S. DEPT. OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION
SITE SCHEDULE

Date 11/7/83

Check One ✓ English ___ Metric Units

AKRG Yes 11/7/83 RW
HEADER Yes 11/7/83 RW
WATER LEVEL None 11/7/83 RW
KEY PUNCH 1-3-84 RW
PRINT OUT 1-3-84 RW

GENERAL SITE DATA (0)

Site Ident No 5 61 13 52 149 50 12 01 19
RG Number R=0
Transaction T=A (add, delete, modify, verified)
Type 2=W (collector, drain, excavation, sink hole, connector well, multiple, outcrop, pond, spring, tunnel or shaft, well, test hole)
Data Reliability 3=C (field checked, unchecked)
Reporting Agency 4=USGS
Project 5=
District 6=02
State 7=02
County (or town) Anchorage 8=020
Latitude 9=61 13 52 (deg min sec)
Longitude 10=149 50 12 (deg min sec)
Lat-Long Accuracy 11=SFTM (sec, 5 sec, 10 sec, Min)
Local Number 12=SB013003 08DAAA 1 001
Land Net Loc. 13=NE NE SE S 08 T 013N R 003W S (1/4 1/4 1/4 section, township, range, merid)
Location Map 14=ANCHORAGE A-8 NW
Scale 15=25000
Altitude 16=142.
Method of Measurement 17=A (altimeter, level, map)
Accuracy 18=1
Topo Setting 19=F (alluvial fan, playa, stream channel, depression, dunes, flat, flood plain, hill top, sink, swamp, mangrove swamp, offshore, pediment, hill side, terrace, undulating, valley flat, upland draw)
Hydrologic Unit (OWDC) 20=19050002
Site Use 23=W (anode, standby emer supply, drain, geothermal, seismic reserv, heat, mine, observation, oil or gas, recharge, repress, test, unused, withdrawal, waste, destroyed)
Secondary Site Use 301=
Tertiary Site Use 302=
Use of Water 24=P (air cond, bottling, commercial, domestic water, power, fire, domestic, irrigation, industrial (cooling), mining, medicinal, industrial, public supply, aquaculture, recreation, stock, institution, unused, desal, other)
Secondary Water Use 25=
Tertiary Use of Water 26=
Depth of Hole 27=850.
Depth of Well 28=850.
Source of Depth Data ① 29=D
Water Level 30=45.
Data Measured 31=11/16/1953 (month day year)
Source ① 33=S
Method of Measurement 34=R (airline, analog, calibrated airline, estimated, pressure gage, calibrated pressure gage, geophysical logs, manometer, non-rec. gage, reported, steel tape, electric tape, calibrated electric tape, other)
Site Status 37=D (dry, recently flowing flowing, flowing, nearby flowing, nearby recently flowing, injector site, injector monitor, meas. discon., obstruction, pumping, recently pumped, nearby pumping, nearby recently pumped, foreign substance, well destroyed, surface water effects, other)
Source of Geohydrologic Data ① 36=D
Pump Used 35= (no)
Date of First Construction/Completion 21=09/17/1953 (month day year)

OWNER IDENTIFICATION (1)

R=158
T=A (add, delete, modify)
Date of Ownership 159#09/17/1953 (month day year)
Name: Last 161#USAF
First 162=ELMENDORF
Middle Initial 163=

OTHER SITE IDENTIFICATION NUMBERS (1)

R=189
T=A (add, delete, modify)
New Card Same R & T
Ident 190#5099 Assigner 191=LAB
190#00028* 191=AKRG*
Ident 190#4115 Assigner 191=LAB
190#2373* 191=LABX*
190#ED:A8:3:22* 191=USGS*

SITE VISIT DATA (1)

R=186
T=A (add, delete, modify)
Date of Visit 187#11/16/1953 (month day year)
Name of Person 188=TRAINER F
190#6061* 191=LAB*

FIELD WATER QUALITY MEASUREMENTS (1)

R=192
T=A (add, delete, modify)
Date 193# (month day year)
Geohydrologic Unit 195#
New Card Same R thru 195
Temperature 196#00010 Degrees C 197=
Conductance 196#00095 µ Mhos 197=
Other (STORET) Parameter 196# Value 197=
Other (STORET) Parameter 196# Value 197=

190#6513*	191=LAB*
190#6957*	191=LAB*
190#7543*	191=LAB*
190#7951*	191=LABX
190#8376*	191=LABX
190#8904*	191=LABX
190#13319*	191=LABX
190#14513*	191=LABX
190#15520*	191=LABX

FOOT NOTES

① Source of Data Codes:
A D G L M O R S Z
(other, driller, geologist, logs, memory, owner, other gov't, reporting agency)

DAILY VALUES WATER LEVEL LESTING FOR WATER YEAR 1955–1956

Bldg 22-001

well is at Elmendorf Power Plant

log:

elev. 140

0–13 Gravelly Sand
25 – Sandy gravel
53 – Gravelly sand
58 – Med. Sand = +82'
186 – Grey clay
190 – quick sand
208 – Grey clay = -68'
222 – Gravelly Sand
237 – Hard till with sand streaks
262 – soft sticky clay = -97'
301 – Blue estuarine clay = -161'
302 – Gravel hardpan
308 – angular sand lenses
311 – Sand grading into clay silt
322 – Sand, co. to fine
340 – Glacial till, high % fines = -200'
342 – Hard Cemented like clayey till
451 – Glacial till with sand & Gravel lenses
459 – Lense of sand & gravel with some clay
540 – Glacial till – severed thin lense of S & G
580 – Grey silt & clay with some pebble
673 – Grey silt – coal pieces
682 – Blue grey clay
695 – Placer coal with grey silt
703 – Grey Sandy clay
764 – ? = -624' DE upts
778 – Hard SS
850 – thin beds of coal & shale with a few beds of Sandstone

FLUT fit shale then bedrock

~ -440' SL

DJC says at 704' or maybe 778'

764
140
-624

Well No. 13-3-8-1

Latitude-longitude 61° 13' 52" N 149° 50' 12" (d m s d m s)

HYDROGEOLOGIC CARD

SAME AS ON MASTER CARD (1–19) Physiographic Province: 2 (20–21) Section: 9

C (22) Drainage Basin: 8105 (23–25) Subbasin: (26)

Topo of well site: (D) depression, (C) stream channel, (E) dunes, (F) flat, (H) hilltop, (K) sink, (L) swamp, (Φ) offshore, (P) pediment, (S) hillside, (T) terrace, (U) undulating, (V) valley flat (27)

MAJOR AQUIFER: system, series (28–29) aquifer, formation, group (30–31)

Lithology: (32–33) Origin: (34) Aquifer Thickness: ft

(35–37) Length of well open to: ft (38–40) Depth to top of: ft (41–43)

MINOR AQUIFER: system, series (44–45) aquifer, formation, group (46–47)

Lithology: (48–49) Origin: (50) Aquifer Thickness: ft

(51–53) Length of well open to: ft (54–56) Depth to top of: ft (57–59)

Intervals Screened: PERF - 208 - 237', 306 - 322', 342 - 451'. 1st Count. See Cite Count: 30. (illegible)

Depth to consolidated rock: ft (60–63) Source of data: (64)

Depth to basement: ft (65–68) Source of data: (69)

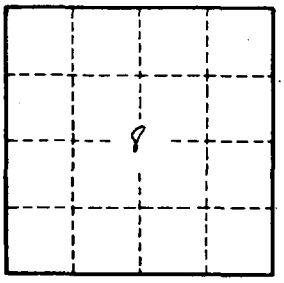
Surficial material: (70–71) Infiltration characteristics: (72)

Coefficient Trans: gpd/ft (73–75) Coefficient Storage: (76–78)

Coefficient Perm: gpd/ft²; Spec cap: gpm/ft; Number of geologic cards: (79)

0-13 - Gravelly sand
13-25 - Sandy gravel
25-53 - Gravelly sand
53-58 - Med. sand
58-186 - Grey clay
186-190 - Quick sand
190-208 - Grey clay
208-222 - Gravelly sand
222-237 - Hard till with sand streaks
237-262 - Soft sticky clay
262-301 - Blue estuarine clay
301-302 - Gravel hardpan
302-303 - Angular sand lenses
303-311 - Sand grading into clay size
311-322 - Sand, cs. to fine
322-340 - Glacial till, high % fines
340-342 - Hard cement like clayly till
342-451 - Glacial till with sand & gravel bases
451-459 -lense of sand & gravel with some clay
459-540 -Glacial till - several thin lenses of S & G
540-580 - Grey silt & clay with some pebbles
580-673 - Grey silt - coal pieces
673-682 - Blue grey clay
682-695 - Placer coal with grey silt
695-703 - Grey sandy clay
703-764 - ?
764-778 - Hard SS
778-850 - Thin beds of coal & shale w/few beds of sandstone

- 24" to 180'
- ~~18" to 322'~~
- 16" to 537.10'
- ~~12" to 589'~~



Well No.

GPO 857-700

FORM NO 9-1904— A

SITE NO. AKRG 2667

Recorded by ATTWOOD-WEEKS

U.S. DEPT. OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION
GROUND WATER SITE INVENTORY
SITE SCHEDULE

Date 6-22-77

Check One ✓ English ___ Metric Units

GENERAL SITE DATA (0)

Site Ident No 61N.04W.19990001 (5–19) | RG Number R-0 | Transaction T- A D M V (add, delete, modify, verified)

Site-Type 2- C D H I M P T W (collector, drain, sinkhole, connector well, multiple, pond, tunnel-to-well shaft) | Data Reliability 3- C U L M (field checked, unchecked, location not accurate, minimal data) | Reporting Agency 4- USGS

Project No. 5- | District 6- 02 | State 7- 02 | County (or town) 7- ANCH | 8- 020

Latitude 9- 61 14 24 (deg min sec) | Longitude 10- 149 49 00 (deg min sec) | Lat-Long Accuracy 11- S F T M (sec, 5 sec, 10 sec, Min)

Local Number 12- USBOI 309309ACACI 020 | Land Net Loc. 13- NE SW NE S 09 T 013N R 003W S (1/4 1/4 1/4 section, township, range, meridian)

Location Map 14- ANCHORAGE & VICINITY | Scale 15- 24000

Altitude 16- 100. | Method of Measurement 17- A L M (altimeter, level, map) | Accuracy 18- 10

Topo Setting 19- D C E F H K L Ø P S T U V W (depression, stream, dunes, flat, hilltop, sink, swamp, offshore, pediment, hillside, terrace, undulating, valley, upland flat, channel, draw) | Hydrologic Unit (OWDC) 20- 19050002

Date of First Construction/Completion 21- 06 16 1970 (month day year) | Use of Site 23- A D E G H Ø M P R S T U W X Z (anodo, drain, geothermal, seismic, heat reserv, observation, mine, oil or gas, recharge, reprom, test, unused, withdrawal, waste, destroyed) | Use of Water 24- A B C D E F H I M N P R S T U Y Z (air cond., bottling, commercial, dewater, power, fire, domestic, irrigation, medicinal, industrial, public supply, recreation, stock, institution, unused, desal, other)

Secondary Water Use 25- | Tertiary Use of Water 26- | Depth of Hole 27- 166 | Depth of Well 28- 166 | Source of Depth Data ① 29- D

Water Level 30- 35. | Date Measured 31- 06 18 1970 (month day year) | Source ① 33- D

Method of Measurement 34- A C E G H L M R S T V Z (airline, calibrated, estimated, pressure gage, calibrated, pressure gage, geophysical logs, manometer, reported, steel tape, electric tape, calibrated, electric tape, other)

Site Status 37- D F G H Ø P R S T V X Z (dry, flowing, nearby, flowing, nearby, recently flowing, obstruction, pumping, recently pumped, nearby, pumping, nearby, recently pumped, foreign substance, surface water affects, other) 27?= Y

Source of Geohydrologic Data ① 36- | Pump Used 35- (no) | Measuring Point 266- | Measuring Point Date 267- (month day year)

OWNER IDENTIFICATION (1)

R-158 | T- A D M (add, delete, modify) | Date of Ownership 159 # 06 16 1970 (month day year)

Name: Last 161- EAFB GOLF | First 162- CSE CLUB H | Middle Initial 163-

OTHER SITE IDENTIFICATION NUMBERS (1)

R-189 | T- A D M (add, delete, modify) | Ident 190 # 020 | Assigner 191- AKMP

New Card Same R & T | Ident 190 # 02667 | Assigner 191- AKRG

190 # 15349 * 191 = WAB *
190 # UNCONSOL *
AI = CONFINED *

SITE VISIT DATA (1)

R-186 | T- A D M (add, delete, modify) | Date of Visit 187 # 06 16 1970 (month day year) | Name of Person 188- WEEKS J

FIELD WATER QUALITY MEASUREMENTS (1)

R-192 | T- A D M (add, delete, modify) | Date 193 # (month day year) | Geohydrologic Unit 195 #

New Card Same R thru 195

Temperature 196 # 00010 | Degrees C 197-

Conductance 196 # 00095 | µMhos 197-

Other (STORET) Parameter 196 # | Value 197-

Other (STORET) Parameter 196 # | Value 197-

FOOT NOTES:

① Source of Data Codes:

S D Ø A R L G Z (reporting agency, driller, owner, other gov't, other reported, logs, geologist, other)

WATER LEVEL
KEY PUNCH
PRINT PRINT CK'D

286

well 52

Well No. _____

Latitude-longitude _____ N S d m s d m s

HYDROGEOLOGIC CARD

SAME AS ON MASTER CARD (1–19) Physiographic Province: _____ (20–21) Section: _____

_____ (22) Drainage Basin: _____ (23–25) Subbasin: _____ (26)

Topo of well site: (D) depression, (C) stream channel, (E) dunes, (F) flat, (H) hilltop, (K) sink, (L) swamp, (Ø) offshore, (P) pediment, (S) hillside, (T) terrace, (U) undulating, (V) valley flat _____ (27)

MAJOR AQUIFER: _____ system, _____ series (28–29) _____ aquifer, formation, group (30–31)

Lithology: _____ (32–33) Origin: _____ (34) Aquifer Thickness: _____ ft

(35–37) Length of well open to: _____ ft (38–40) Depth to top of: _____ ft (41–43)

MINOR AQUIFER: _____ system, _____ series (44–45) _____ aquifer, formation, group (46–47)

Lithology: _____ (48–49) Origin: _____ (50) Aquifer Thickness: _____ ft

(51–53) Length of well open to: _____ ft (54–56) Depth to top of: _____ ft (57–59)

Intervals Screened: 5 ft of 60 slot screen 161-166 ft

Depth to consolidated rock: _____ ft (60–63) Source of data: _____ (64)

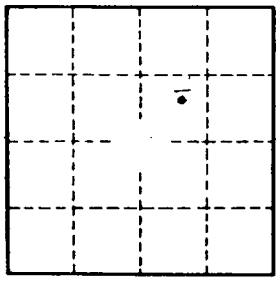
Depth to basement: _____ ft (65–68) Source of data: _____ (69)

Surficial material: _____ (70–71) Infiltration characteristics: _____ (72)

Coefficient Trans: _____ gpd/ft (73–75) Coefficient Storage: _____ (76–78)

Coefficient Perm: _____ gpd/ft^2; Spec cap: _____ gpm/ft; Number of geologic cards: _____ (79)

0-10 Sand & gravel
10-40 Sand; silt
40-150 Silt (blue)
150-160 Coarse gravel



ACAC

Well No.

GPO 857-700

FORM NO 9-1904– A

X

SITE NO. SB-14-3-22BDBA1-4
AKRG 01796

U.S. DEPT. OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION
GROUND WATER SITE INVENTORY
SITE SCHEDULE

Recorded by Liska | Morgan

Date 11-30-77

Check One ___ English ___ Metric Units

GENERAL SITE DATA (0)

Site Ident No 61173314947400 1 (5–19) | RG Number R-0 | Transaction T- A D M V (add, delete, modify, verified)

Site-Type 2- C D H I M P T W (collector, drain, sinkhole, connector, multiple, pond, tunnel or, well shaft, well) | Data Reliability 3- C U L M (field checked, unchecked, location not accurate, minimal data) | Reporting Agency 4- USGS

Project No. 5- | District 6- 02 | State 7- 02 | County (or town) Elmendorf | 8- 020

Latitude 9- 61 17 33 (deg min sec) | Longitude 10- 149 47 45 (deg min sec) | Lat-Long Accuracy 11- S F T M (sec, 5 sec, 10 sec, Min)

Local Number 12- SB01403022BDBA1 004 | Land Net Loc. 13- NW SE NW 22 T 014N R 003W S (1/4 1/4 1/4 section, township, range, merid)

Location Map 14- ANCHORAGE E VICINITY | Scale 15- 240000

Altitude 16- 115. | Method of Measurement 17- A L M (altimeter, level, map) | Accuracy 18- 2

Topo Setting 19- D C E F H K L Ø P S T U V W (depression, stream channel, dunes, flat, hilltop, sink, swamp, offshore, pediment, hillside, terrace, undulating, valley flat, upland draw) | Hydrologic Unit (OWDC) 20- 19050002

Date of First Construction/Completion 21- 10/00/1964 (month day year) | Use of Site 23- A D E G H Ø M P R S T U W X Z (anode, drain, geothermal, seismic, heat reserv, observation, mine, oil or gas, recharge, repress, test, unused, withdrawal, waste, destroyed)

Use of Water 24- A B C D E F H I M N P R S T U Y Z (air cond., bottling, commercial, dewater, power, fire, domestic, irrigation, medicinal, industrial, public supply, recreation, stock, institution, unused, desal, other)

Secondary Water Use 25- | Tertiary Use of Water 26- | Depth of Hole 27- 65. | Depth of Well 28- 60. | Source of Depth Data ① 29- ##

Water Level 30- 30. | Date Measured 31- 02/25/1965 (month day year) | Source ① 33- ##

Method of Measurement 34- A C E G H L M R S T V Z (airline, calibrated airline, estimated, pressure gage, calibrated pressure gage, geophysical logs, manometer, reported, steel tape, electric tape, calibrated electric tape, other)

Site Status 37- D F G H Ø P R S T V X Z (dry, flowing, nearby flowing, nearby recently flowing, obstruction, pumping, recently pumped, nearby pumping, nearby recently pumped, foreign substance, surface water effects, other)

273=Y*

Source of Geohydrologic Data ① 36- | Pump Used 35- (no) | Measuring Point 266- | Measuring Point Date 267- (month day year)

OWNER IDENTIFICATION (1)

R-158 | T- A D M (add, delete, modify) | Date of Ownership 159 # 10/00/1964 (month day year)

Name: Last 161- USAF | First 162- ELMENDORF | Middle Initial 163-

OTHER SITE IDENTIFICATION NUMBERS (1)

R-189 | T- A D M (add, delete, modify)

190# E-46*

Ident 190 # 004 | Assigner 191- AKMP

191= ELMENDORF*

New Card Same R & T

Ident 190 # 01796 | Assigner 191- AKRG

190# BLDG 63-621*

191- ELMENDORF BLDG*

SITE VISIT DATA (1)

R-186 | T- A D M (add, delete, modify) | Date of Visit 187# 03/09/1972 (month day year) | Name of Person 188- TETZLOFF

FIELD WATER QUALITY MEASUREMENTS (1)

R-192 | T- A D M (add, delete, modify) | Date 193 # 02/25/1965 (month day year) | Geohydrologic Unit 195 #

New Card Same R thru 195

Temperature 196# 00010 | Degrees C 197- 3.5

Conductance 196# 00095 | µ Mhos 197-

Other (STORET) Parameter 196 # | Value 197-

Other (STORET) Parameter 196 # | Value 197-

ROW # 191:
15398 LAH3
14530 LAH3
13333 LAH3
12656 LAH3
8579 LAH3
8912 LAH3
10053 LAH3
11444 LAH3
16573 LAH3

FOOT NOTES:

① Source of Data Codes:

S D Ø A R L G Z (reporting agency, driller, owner, other gov't, other reported, logs, geologist, other)

No drilling log available

383

REMARK: OK 0.K. 1/4 MEXPUNCH
DATE: 11-30-77 12-14-77 12-19-77
INITIALS: R.L. R.L. R.L.
AKRG
HFLOW
WATER LEVEL
KEY PUNCH

DRM NO 9-1904— A

X

SITE NO. SB-14-3-22BDBC1-3
AKRG 01795

Recorded by Liska / Morgan

U.S. DEPT. OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION
GROUND WATER SITE INVENTORY
SITE SCHEDULE

Date 11-27-77

Check One ✓ English ___ Metric Units

GENERAL SITE DATA (0)

Site Ident No 61173214947550 1 (5–19) | RG Number R=0 * | Transaction T=(A) D M V * (add, delete, modify, verified)

Site-Type 2=C D H I M P T (W) * (collector, drain, sinkhole, connector, multiple, pond, tunnel or, well shaft, well) | Data Reliability 3=C (U) L M * (field checked, unchecked, location not accurate, minimal data) | Reporting Agency 4=USGS *

Project No. 5= * | District 6=02 * | State 7=02 * | County (or town) Elmendorf | 8=020 *

Latitude 9=61732 * (deg min sec) | Longitude 10=1494755 * (deg min sec) | Lat-Long Accuracy 11=S (F) T M * (sec, 5 sec, 10 sec, Min)

Local Number 12=SB01400322BDBC1 003 * | Land Net Loc. 13=NW SE NW S 22 T 014N R 003W S * (1/4 1/4 1/4 section, township, range, merid)

Location 14=ANCHORAGE & VICINITY * | Scale 15=24000 *

Altitude 16=100. * | Method of Measurement 17=A L (M) * (altimeter, level, map) | Accuracy 18=2 *

Topo Setting 19=D C E (F) H K L Ø P S T U V W * (depression, stream, dunes, flat, hilltop, sink, swamp, offshore, pediment, hillside, terrace, undulating, valley, upland flat draw, channel) | Hydrologic Unit (OWDC) 20=19050002 *

Date of First Construction/ Completion 21=01/00/1960 * (month day year) | Use of Site 23=A D E G H Ø M P R S T U (W) X Z * (anode, drain, geothermal, heat reserv, observation, mine oil or gas, recharge, repress, test, unused, withdrawal, waste, destroyed)

Use of Water 24=A B C D E F H I M N (P) R S T U Y Z * (air cond., bottling, commercial, dewater, power, fire, domestic, irrigation, medicinal, industrial, public supply, recreation, stock, institution, unused, desal, other)

Secondary Water Use 25= * | Tertiary Use of Water 26= * | Depth of Hole 27=78. * | Depth of Well 28=78. * | Source of Depth Data ① 29=R *

Water Level 30= * | Date Measured 31= / / * (month day year) | Source ① 33= *

Method of Measurement 34=A C E G H L M R S T V Z * (airline, calibrated airline, estimated, pressure gage, calibrated pressure gage, geophysical logs, manometer, reported, steel tape, steel tape, electric, calibrated electric tape, other)

Site Status 37=D F G H Ø P R S T V X Z * (dry, flowing, nearby flowing, nearby recently flowing, obstruction, pumping, recently pumped, nearby pumping, nearby recently pumped, foreign substance, surface water effects, other)

273=Y*

Source of Geohydrologic Data ① 36= * | Pump Used 35= * (no) | Measuring Point 266= * | Measuring Point Date 267= / / * (month day year)

OWNER IDENTIFICATION (1)

R=158 * | T=(A) D M * (add, delete, modify) | Date of Ownership 159 #01/00/1960 * (month day year)

Name: Last 161=USAF * | First 162=ELMENDORF * | Middle Initial 163= *

OTHER SITE IDENTIFICATION NUMBERS (1)

R=189 * | T=(A) D M * (add, delete, modify) | New Card Same R & T

190# E-4 * | Ident 190 #003 * | Assigner 191=ELMENDORF * 191=A,K,M,P *

Ident 190 #0179S * | Assigner 191=A,K,R,G *

190# BLDG 63-600 * 191=ELMENDORF BLDG *

SITE VISIT DATA (1)

R=186 * | T=(A) D M * (add, delete, modify) | Date of Visit 187#03/06/1972 * (month day year) | Name of Person 188=TETZLOFF *

FIELD WATER QUALITY MEASUREMENTS (1)

R=192 * | T=(A) D M * (add, delete, modify) | Date 193 #02/23/1965 * (month day year) | Geohydrologic Unit 195 # *

New Card Same R thru 195

Temperature 196 #00010 * | Degrees C 197=4.5 *

Conductance 196 #00095 * | µ Mhos 197= *

Other (STORET) Parameter 196 # * | Value 197= *

Other (STORET) Parameter 196 # * | Value 197= *

190* 5369 * 191= LAB *
8902 * LAB *
7544 * LAB *
7952 * LAB *
6958 * LAB *
6065 * LAB *
6524 * LAB *
14436 * LAB *
13524 * LAB *
15378 * LAB *
14514 * LAB *
10026 * LAB *
16582 * LAB *

FOOT NOTES:

① Source of Data Codes:

S D Ø A R L G Z (reporting agency, driller, owner, other gov't, other reported, logs, geologist, other)

FORM NO 9-1904— A

SITE NO. SB-14-3-22BDDD1-5
AKRG 01797

Recorded by Liska / Morgan

U.S DEPT. OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION
GROUND WATER SITE INVENTORY
SITE SCHEDULE

Date 11-30-77

Check One ✓ English ___ Metric Units

GENERAL SITE DATA (0)

Site Ident No 61172614947300 1 (5 … 19) | RG Number R=0 | Transaction T=(A) D M V (add, delete, modify, verified)

Site-Type 2=C D H I M P T (W) (collector, drain, sinkhole, connector, multiple, pond, tunnel or, well shaft well) | Data Reliability 3=C (U) L M (field checked, unchecked, location not accurate, minimal data) | Reporting Agency 4=USGS

Project No 5= | District 6=02 | State 7=02 | County (or town) 8=Elmendorf 020

Latitude 9=61 17 26 (deg min sec) | Longitude 10=149 47 30 (deg min sec) | Lat-Long Accuracy 11=S (F) T M (sec, 5 sec, 10 sec, Min)

Local Number 12=SB01400322BDDD1 005 | Land Net Loc. 13=SE SE NW S 22 T 014N R 003W S (1/4 1/4 1/4 section, township, range, merid)

Location Map 14=ANCHORAGE E VICINITY | Scale 15=24000

Altitude 16=115. | Method of Measurement 17=A L (M) (altimeter, level, map) | Accuracy 18=2

Topo Setting 19=D C E F H K L Ø P (S) T U V W (depression, stream channel, dunes, flat, hilltop, sink, swamp, offshore, pediment, hillside, terrace, undulating, valley flat, upland draw) | Hydrologic Unit (OWDC) 20=19050002

Date of First Construction/Completion 21=06/00/1963 (month day year) | Use of Site 23=A D E G H Ø M P R S T U (W) X Z (anode, drain, geothermal, seismic, heat reserv, observation, mine, oil or gas, recharge, repress, test, unused, withdrawal, waste, destroyed)

Use of Water 24=A B C D E F H I M N (P) R S T U Y Z (air cond., bottling, commercial, dewater, power, fire, domestic, irrigation, medicinal, industrial, public supply, recreation, stock, institution, unused, desal, other)

Secondary Water Use 25= | Tertiary Use of Water 26= | Depth of Hole 27=55. | Depth of Well 28=55. | Source of Depth Data ① 29=A

Water Level 30=23. | Date Measured 31=04/06/1966 (month day year) | Source ① 33=A

Method of Measurement 34=A C E G H L M R S T V Z (airline, calibrated airline, estimated, pressure gage, calibrated pressure gage, geophysical logs, manometer, reported, steel tape, electric tape, calibrated electric tape, other)

Site Status 37=D F G H Ø P R S T V X Z (dry, flowing, nearby flowing, nearby recently flowing, obstruction, pumping, recently pumped, nearby pumping, nearby recently pumped, foreign substance, surface water effects, other)

273=Y*

Source of Geohydrologic Data ① 36= | Pump Used 35= (no) | Measuring Point 266= | Measuring Point Date 267= (month day year)

REMARK | DATE | INITIALS
OK | 11-30-77 | RG
OK | 12-14-77 | RG
11 | 12-19-77 | RG

AKRG | HEADER | WATER LEVEL | KEY PUNCH

OWNER IDENTIFICATION (1)

R=158 | T=(A) D M (add, delete, modify) | Date of Ownership 159 # 06/00/1963 (month day year)

Name: Last 161=USAF | First 162=ELMENDORF | Middle Initial 163=

OTHER SITE IDENTIFICATION NUMBERS (1)

R=189 | T=(A) D M (add, delete, modify) | Ident 190 # 005 (190 # E-47) | Assigner 191=AKMP (191=ELMENDORF *)

New Card Same R & T | Ident 190 # 01797 (190 # BLDG 63-740) | Assigner 191=AKRG (191=ELMENDORF BLDG)

SITE VISIT DATA (1)

R=186 | T=(A) D M (add, delete, modify) | Date of Visit 187# 03/08/1972 (month day year) | Name of Person 188=TETZLOFF

FIELD WATER QUALITY MEASUREMENTS (1)

R=192 | T=(A) D M (add, delete, modify) | Date 193 # 02/23/1965 (month day year) | Geohydrologic Unit 195 #

New Card Same R thru 195

Temperature	196 # 00010	Degrees C 197=	6.5
Conductance	196 # 00095	µ Mhos 197=	
Other (STORET) Parameter	196 #	Value 197=	
Other (STORET) Parameter	196 #	Value 197=	

8368 LHH3
11445 LHH3
12540 LHH
8905 LHH
15374 LHH3
13325 LHH
14534 LHB
16574 LHB

FOOT NOTES:

① Source of Data Codes:
S D Ø A R L G Z (reporting agency, driller, owner, other gov't, other reported, logs, geologist, other)

384

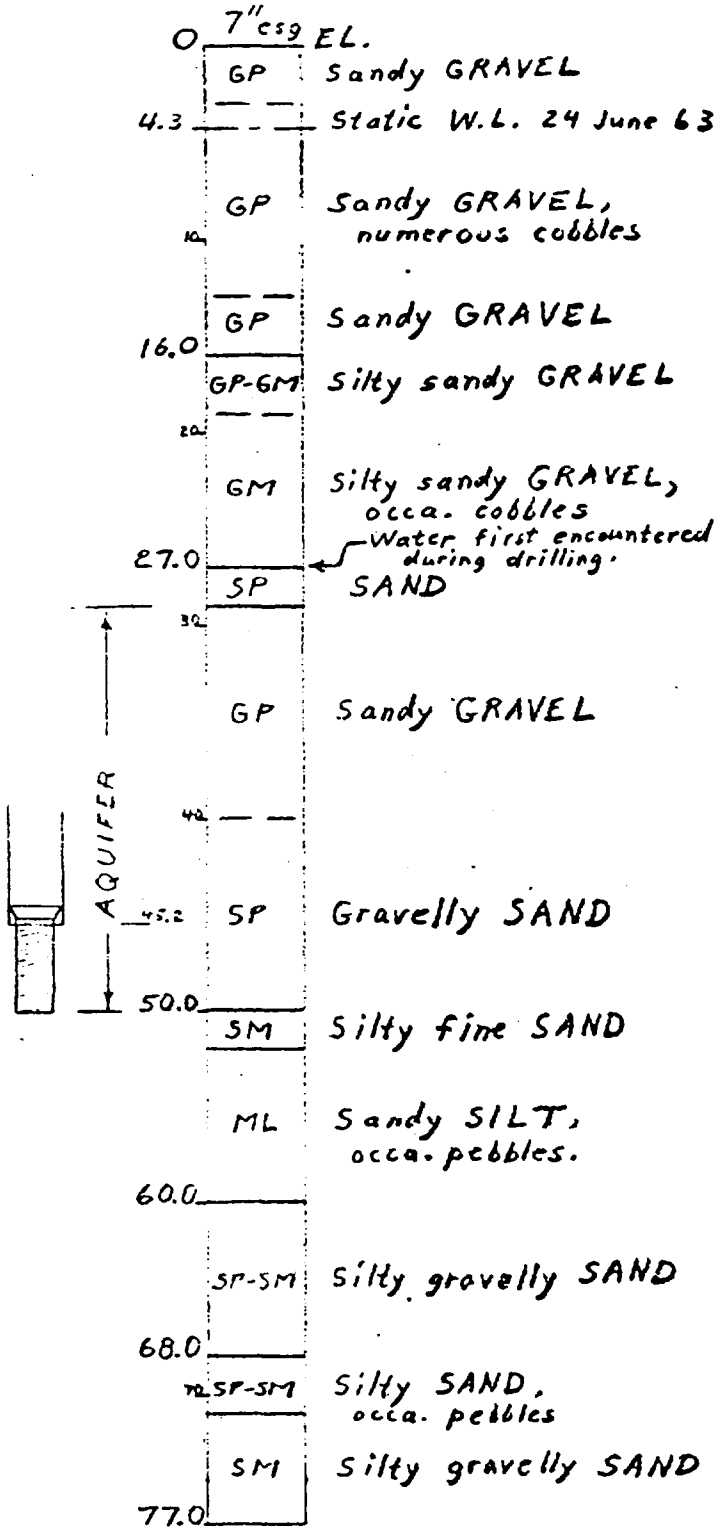
SB-14-3-22

BDDD1-5

Water Well

N

E



Well was drilled 18-27 June 1963 by F&M Branch. A 6" dia. No. 35 slot Johnson Everdur screen 5 ft long with a 6" to 7" lead packer was set in natural gravel aquifer at 45-50 ft depth, and well was developed by surging and bailing for 3 hours 28 June 1963. Drawdown was 9.2 ft at pumping rate of 39 gpm.

T14N R3W Sec 22

ELMENDORF AFB

6-MI. LAKE 5040th CEG REC.

ORM NO 9-1904— A

X

SITE NO. SB-14-3-22 D'ADD1-7
AKRG 01799

Recorded by Liska / Morgan

U S. DEPT. OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION
GROUND WATER SITE INVENTORY
SITE SCHEDULE

Date 11-30-77

Check One ✓ English ___ Metric Units

GENERAL SITE DATA (0)

Site Ident No 61 17 13 149 46 37 01 (5 … 19)

RG Number R-0 *

Transaction T- (A) D M V * (add, delete, modify, verified)

Site-Type 2- C D H I M P T (W) * (collector, drain, sinkhole, connector, multiple, pond, tunnel or, well shaft, well)

Data Reliability 3- C (U) L M * (field checked, unchecked, location not, minimal accurate, data)

Reporting Agency 4- USGS *

Project No 5- *

District 6- 02 *

State 7- 02 *

County (or town) 8- Elmendorf 020 *

Latitude 9- 61 17 13 * (deg min sec)

Longitude 10- 149 46 37 * (deg min sec)

Lat-Long Accuracy 11- S (F) T M * (sec, 5 sec, 10 sec, Min)

Local Number 12- SB01400322DADD1 007 *

Land Net Loc 13- SE NE SE S 22 T 014N R 003W S * (1/4 1/4 1/4 section, township, range, merid)

Location Map 14- ANCHORAGE & VICINITY *

Scale 15- 24000 *

Altitude 16- 200. *

Method of Measurement 17- A L (M) * (altimeter, level, map)

Accuracy 18- 2 *

Topo Setting 19- D C E F H K L Ø P (S) T U V W * (depression, stream channel, dunes, flat, hilltop, sink, swamp, offshore, pediment, hillside, terrace, undulating, valley flat, upland draw)

Hydrologic Unit (OWDC) 20- 19050002 *

Date of First Construction/ Completion 21- 00/00/1949 * (month day year)

Use of Site 23- A D E G H Ø M P R S T U (W) X Z * (anode, drain, geothermal, seismic, heat, observation, mine, oil or gas, recharge, repress, test, unused, withdrawal, waste, destroyed)

Use of Water 24- A B C D E F H I M N (P) R S T U Y Z * (air cond., bottling, commercial, dewater, power, fire, domestic, irrigation, medicinal, industrial, public supply, recreation, stock, institution, unused, desal, other)

Secondary Water Use 25- *

Tertiary Use of Water 26- *

Depth of Hole 27- 155. *

Depth of Well 28- 155. *

Source of Depth Data ① 29- A *

Water Level 30- *

Date Measured 31- / / * (month day year)

Source ① 33- *

Method of Measurement 34- A C E G H L M R S T V Z * (airline, calibrated airline, estimated, pressure gage, calibrated pressure gage, geophysical logs, manometer, reported, steel tape, electric tape, calibrated electric tape, other)

Site Status 37- D F G H Ø P R S T V X Z * (dry, flowing, nearby flowing, nearby recently flowing, obstruction, pumping, recently pumped, nearby pumping, nearby recently pumped, foreign substance, surface water effects, other)

273=Y*

Source of Geohydrologic Data ① 36- *

Pump Used 35- * (no)

Measuring Point 266- *

Measuring Point Date 267- / / * (month day year)

OWNER IDENTIFICATION (1)

R-158 * T- (A) D M * (add, delete, modify)

Date of Ownership 159 # 00/0,0/1,949 * (month day year)

Name: Last 161- USAF *

First 162- ELMENDORF *

Middle Initial 163- *

OTHER SITE IDENTIFICATION NUMBERS (1)

R-189 * T- (A) D M * (add, delete, modify)

Ident 190 # 007 *

Assigner 191- AKMP *

190# E-25 *

191 = ELMENDORF *

New Card Same R & T

Ident 190 # 01799 *

Assigner 191- AKRG *

190# BLDG 63-320 *

191 = ELMENDORF BLDG *

SITE VISIT DATA (1)

R-186 * T- (A) D M * (add, delete, modify)

Date of Visit 187# 03/09/1972 * (month day year)

Name of Person 188- TETZLOFF *

FIELD WATER QUALITY MEASUREMENTS (1)

R-192 * T- (A) D M * (add, delete, modify)

Date 193 # 02/23/1965 * (month day year)

Geohydrologic Unit 195 # *

New Card Same R thru 195

Temperature 196# 00010 *

Degrees C 197- 5.5 *

Conductance 196# 00095 *

µ Mhos 197- *

Other (STORET) Parameter 196# *

Value 197- *

Other (STORET) Parameter 196# *

Value 197- *

191= *

190# 2370 LAB
2845 *
3471 LAB
4119 LAB
15383 LAB
14519 LAB
13323 LAB
12542 LAB
11437 LAB
10021 LAB
8367 LAB
7550 LAB
7958 LAB
6963 LAB

FOOT NOTES:

① Source of Data Codes:

S D Ø A R L G Z (reporting agency, driller, owner, other gov't, other reported, logs, geologist, other)

386

FORM NO 9-1904—A

X

SITE NO. SB-14-3-28 BBBB1-3
AKRG 01802

U.S. DEPT. OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION
GROUND WATER SITE INVENTORY
SITE SCHEDULE

Recorded by Liska / Morgan

Date Nov. 17, 1977

Check One ✓ English ___ Metric Units

GENERAL SITE DATA (0)

Site Ident No 61165414950040 1 (5–19) | RG Number R-0 * | Transaction T- A D M V * (add, delete, modify, verified)

Site-Type 2- C D H I M P T W * (collector, drain, sinkhole, connector, multiple, pond, tunnel or, well, well shaft) | Data Reliability 3- C U L M * (field checked, unchecked, location not accurate, minimal data) | Reporting Agency 4- U.S.G.S. *

Project No. 5- | District 6- 02 * | State 7- 02 * | County (or town) 8- Elmendorf 020 *

Latitude 9- 61 16 54 * (deg min sec) | Longitude 10- 149 50 04 * (deg min sec) | Lat-Long Accuracy 11- S F T M * (sec, 5 sec, 10 sec, Min)

Local Number 12- SB0140032888888 003 * | Land Net Loc. 13- NW NW NW NW S 28 T 014N R 003W S (1/4 1/4 1/4 section, township, range, merid)

Topo Map 14- ANCHORAGE & VICINITY * | Scale 15- 24000 *

Altitude 16- 117. * | Method of Measurement 17- A L M * (altimeter, level, map) | Accuracy 18- 2 *

Topo Setting 19- D C E F H K L Ø P S T U V W * (depression, stream channel, dunes, flat, hilltop, sink, swamp, offshore, pediment, hillside, terrace, undulating, valley flat, upland draw) | Hydrologic Unit (OWDC) 20- 19050002 *

Date of First Construction/Completion 21- 00/00/1944 * (month day year) | Use of Site 23- A D E G H Ø M P R S T U W X Z * (anode, drain, geothermal, seismic, heat reserv, observation, mine, oil or gas, recharge, repress, test, unused, withdrawal, waste, destroyed)

Use of Water 24- A B C D E F H I M N P R S T U Y Z * (air cond., bottling, commercial, dewater, power, fire, domestic, irrigation, medicinal, industrial, public supply, recreation, stock, institution, unused, desal, other)

Secondary Water Use 25- * | Tertiary Use of Water 26- * | Depth of Hole 27- 38. * | Depth of Well 28- 38. * | Source of Depth Data ① 29- * (K)

Water Level 30- 5.39 * | Date Measured 31- 10/31/1967 * (month day year) | Source ① 33- S *

Method of Measurement 34- A C E G H L M R S T V Z * (airline, calibrated, estimated, pressure gage, calibrated pressure gage, geophysical logs, manometer, reported, steel tape, electric tape, calibrated electric tape, other)

Site Status 37- D F G H Ø P R S T V X Z * (dry, flowing, nearby flowing, nearby recently flowing, obstruction, pumping, recently pumped, nearby pumping, nearby recently pumped, foreign substance, surface water effects, other)

273=Y*

Source of Geohydrologic Data ① 36- * | Pump Used 35- * (no) | Measuring Point 266- +1.50 * | Measuring Point Date 267- 10/31/1967 * (month day year)

OWNER IDENTIFICATION (1)

R-158 * | T- A D M * (add, delete, modify) | Date of Ownership 159 # 00/00/1944 * (month day year)

Name: Last 161- U.S.A.F. * | First 162- ELMENDORF * | Middle Initial 163- *

OTHER SITE IDENTIFICATION NUMBERS (1)

R-189 * | T- A D M * (add, delete, modify)

Ident 190 # E-24 * | Assigner 191- ELMENDORF *

Ident 190 # 003 * | Assigner 191- AKMP *

New Card Same R & T

Ident 190 # 0,1,8,0,2 * | Assigner 191- A,K,R,G, *

190 # BLDG52-668 * | 191 = ELMENDORF BLDG *

SITE VISIT DATA (1)

R-186 * | T- A D M * (add, delete, modify) | Date of Visit 187# 03/08/1972 * (month day year) | Name of Person 188- TETZLOFF *

FIELD WATER QUALITY MEASUREMENTS (1)

R-192 * | T- A D M * (add, delete, modify) | Date 193 # 03/08/1972 * (month day year) | Geohydrologic Unit 195 # * | KAI= *

New Card Same R thru 195

Temperature 196 # 0 0 0 1 0 * | Degrees C 197- 1.0 *

Conductance 196 # 0 0 0 9 5 * | µ Mhos 197- *

Other (STORET) Parameter 196 # * | Value 197- *

Other (STORET) Parameter 196 # * | Value 197- *

196#			196#	
53	LAB	KAI=	549	LAB
14518	LAB		6519	LAB
13322	LAB		6067	LAB
12345	LAB		5053	LAB
11069	LAB		4169	LAB
11020	LAB		2369	LAB
8808	LAB		16586	LAB
8370	LAB			
7957	LAB			

FOOT NOTES:

① Source of Data Codes: S D Ø A R L G Z (reporting agency, driller, owner, other gov't, other reported, logs, geologist, other)

190# 567 * 191 = WALLER61 FLD NO. *

190# 387-8 * 191 = WALLER 61 OFF NO *

398

FORM NO 9-1904— A

SITE NO SB-14-3-28DDUM1-
AKRG-01805

Recorded by Liska / Morgan

U.S. DEPT. OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION
GROUND WATER SITE INVENTORY
SITE SCHEDULE

Date NOV. 17, 1977

Check One ✓ English ___ Metric Units

GENERAL SITE DATA (0)

Site Ident No 61165014947943001 (5–19) | RG Number R-0* | Transaction T-(A)DMV* (add, delete, modify, verified)

Site-Type 2-CDHIMPT(W)* (collector, drain, sinkhole, connector well, multiple, pond, tunnel or, well shaft) | Data Reliability 3-C(U)LM* (field checked, unchecked, location not accurate, minimal data) | Reporting Agency 4-USGS*

Project No. 5-* | District 6-02* | State 7-02* | County (or town) Elmendorf 8-020*

Latitude 9-61165.0* (deg min sec) | Longitude 10-149443* (deg min sec) | Lat-Long Accuracy 11-S(F)TM* (sec, 5 sec, 10 sec, Min)

Local Number 12-SB01401032888DA1 007* | Land Net Loc. 13-SENWNWS 28 T 014N R 003W S* (1/4 1/4 1/4 section, township, range, meridian)

Location Map 14-ANCHORAGE & VICINITY* | Scale 15-240000*

Altitude 16-126.* | Method of Measurement 17-AL(M)* (altimeter, level, map) | Accuracy 18-2*

Topo Setting 19-DCEF(H)KLØPST(U)VW* (depression, stream channel, dunes, flat, hilltop, sink, swamp, offshore, pediment, hillside, terrace, undulating, valley flat, upland draw) | Hydrologic Unit (OWDC) 20-19050002*

Date of First Construction/Completion 21-00/00/1947* (month day year) | Use of Site 23-ADEGHØMPRSTU(W)XZ* (anode, drain, geothermal, seismic, heat reserv, observation, mine, oil or gas, recharge, repress, test, unused, withdrawal, waste, destroyed)

Use of Water 24-ABCDEFHIMN(P)RSTUYZ* (air cond., bottling, commercial, dewater, power, fire, domestic, irrigation, medicinal, industrial, public supply, recreation, stock, institution, unused, desal, other)

Secondary Water Use 25-* | Tertiary Use of Water 26-* | Depth of Hole 27-210.* | Depth of Well 28-210.* | Source of Depth Data ① 29-A*

Water Level 30-109.* | Date Measured 31-__/__/__* (month day year) | Source ① 33-A*

Method of Measurement 34-ACEGHLMRSTVZ* (airline, calibrated airline, estimated, pressure gage, calibrated pressure gage, geophysical logs, manometer, reported, steel tape, electric tape, calibrated electric tape, other)

Site Status 37-DFGHØPRSTVXZ* (dry, flowing, nearby flowing, nearby recently flowing, obstruction, pumping, recently pumped, nearby pumping, nearby recently pumped, foreign substance, surface water effects, other)

273=Y*

Source of Geohydrologic Data ① 36-* | Pump Used 35-* (no) | Measuring Point 266-* | Measuring Point Date 267-__/__/__* (month day year)

OWNER IDENTIFICATION (1)

R-158* | T-(A)DM* (add, delete, modify) | Date of Ownership 159 # 00/00/1947* (month day year)

Name: Last 161-USAF* | First 162-ELMENDORF* | Middle Initial 163-*

OTHER SITE IDENTIFICATION NUMBERS (1)

R-189* | T-(A)DM* (add, delete, modify)

190# E-27* | 191=ELMENDORF*

Ident 190 # 007* | Assigner 191-AKMP*

New Card Same R & T

Ident 190 # 01805* | Assigner 191-AKRG*

190 # BLDG62-250* | 191=ELMENDORF BLDG*

SITE VISIT DATA (1)

R-186* | T-(A)DM* (add, delete, modify) | Date of Visit 187# 03/07/1972* (month day year) | Name of Person 188-TETZLOFF*

FIELD WATER QUALITY MEASUREMENTS (1)

R-192* | T-(A)DM* (add, delete, modify) | Date 193 # 03/07/1972* (month day year) | Geohydrologic Unit 195 #*

New Card Same R thru 195

Temperature 196 # 00010* | Degrees C 197-4.5*

Conductance 196 # 00095* | µ Mhos 197-*

Other (STORET) Parameter 196 #* | Value 197-*

Other (STORET) Parameter 196 #* | Value 197-*

190*		191	190
16673*	MV LAB*	8366	2371
15384	LAB	7959	858
14520	LAB	7551	1657
13320	LAB	6964	LAB
12360	LAB	6522	LAB
11071	LAB	5059	LAB
10022	LAB	4113	LAB
8809	LAB	3478	LAB
		2546	LAB

FOOT NOTES:

① Source of Data Codes:

S D Ø A R L G Z (reporting agency, driller, owner, other gov't, other reported, logs, geologist, other)

190# 568* | 191=WALLERGI FLD NO*

190# 388* | 191=WALLERGI OFF NO.*

No drilling log, available

391

AKRG HEADER WATER LEVEL KEY PUNCH

OK 12-15-77 LS
OK 12-21-77 MP
N 12-21-77 MP

RM NO 9-1904- A

X

SITE NO. SB-14-3-28 BBDC 1-8
AK-1806

U.S. DEPT. OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION
GROUND WATER SITE INVENTORY
SITE SCHEDULE

Recorded by Lisha / Nichi

Date Nov 16, 1977

Check One ✓ English ___ Metric Units

S

GENERAL SITE DATA (0)

Site Ident No 61,16,45 149,49,54 01 (5 … 19)

RG Number R-0 *

Transaction T- (A) D M V * — add, delete, modify, verified

Site-Type 2- C D H I M P T (W) * — collector, drain, sinkhole, connector, multiple, pond, tunnel or, well shaft, well

Data Reliability 3- C (U) L M * — field checked, unchecked, location not accurate, minimal data

Reporting Agency 4- USGS *

Project No. 5- *

District 6- 02 *

State 7- 02 *

County (or town) Elmendorf

8- 020 *

Latitude 9- 61,16,45 * — deg min sec

Longitude 10- 149,49,54 * — deg min sec

Lat-Long Accuracy 11- S (F) T M * — sec, 5 sec, 10 sec, Min

Local Number 12- S,B0,14,003,28,BBDC1,008 *

Land Net Loc. 13- SE NW NW S 28, T 01 4N R 003 W S * — 1/4 1/4 1/4 section, township, range, meridian

Location Map 14- ANCHORAGE & VICINITY *

Scale 15- 24000 *

Altitude 16- 121. *

Method of Measurement 17- A L (M) * — altimeter, level, map

Accuracy 18- 2 *

Topo Setting 19- D C E F H K L Ø P S T (U) V W * — depression, stream, dunes, flat, hilltop, sink, swamp, offshore, pediment, hillside, terrace, undulating, valley, upland flat, upland draw, channel

Hydrologic Unit (OWDC) 20- 19050002 *

Date of First Construction/Completion 21- 03/00/1967 * — month day year

Use of Site 23- A D E G H Ø M P R S T U (W) X Z * — anode, drain, geothermal, seismic, heat reserv, observation, mine, oil or gas, recharge, repress, test, unused, withdrawal, waste, destroyed

Use of Water 24- A B C D E F H I M N (P) R S T U Y Z * — air cond., bottling, commercial, dewater, power, fire, domestic, irrigation, medicinal, industrial, public supply, recreation, stock, institution, unused, desal, other

Secondary Water Use 25- *

Tertiary Use of Water 26- *

Depth of Hole 27- 130.5 *

Depth of Well 28- 130. *

Source of Depth Data ① 29- A *

Water Level 30- 104. *

Date Measured 31- 03/00/1967 * — month day year

Source ① 33- A *

Method of Measurement 34- A C E G H L M (R) S T V Z * — airline, calibrated, estimated, pressure gage, calibrated, pressure gage, geophysical logs, manometer, reported, steel tape, electric, calibrated, electric tape, other

Site Status 37- D F G H Ø P R S T V X Z * — dry, flowing, nearby, flowing, nearby, recently flowing, obstruction, pumping, recently pumped, nearby, pumping, nearby, recently pumped, foreign substance, surface water effects, other

273=Y

Source of Geohydrologic Data ① 36- *

Pump Used 35- * — no

Measuring Point 266- *

Measuring Point Date 267- / / * — month day year

OWNER IDENTIFICATION (1)

R-158 * T- (A) D M * — add, delete, modify

Date of Ownership 159 # 03/00/1967 * — month day year

Name: Last 161- USAF *

First 162- ELMENDORF *

Middle Initial 163- *

OTHER SITE IDENTIFICATION NUMBERS (1)

190# BLDG 52-560*

191- ELMENDORF BLDG *

R-189 * T- (A) D M * — add, delete, modify

Ident 190 # 009 *

Assigner 191- AK,MP *

New Card Same R & T

Ident 190 # 01806 *

Assigner 191- AKRG *

190# E-49*

191 = ELMENDORF *

SITE VISIT DATA (1)

R-186 * T- A D M * — add, delete, modify

Date of Visit 187# / / * — month day year

Name of Person 188- *

FIELD WATER QUALITY MEASUREMENTS (1)

R-192 * T- (A) D M * — add, delete, modify

Date 193 # 00/00/1972 * — month day year

Geohydrologic Unit 195 # *

New Card Same R thru 195

Temperature 196# 00010 * Degrees C 197- 5.0 *

Conductance 196# 00095 * µ Mhos 197- *

Other (STORET) Parameter 196# * Value 197- *

Other (STORET) Parameter 196# * Value 197- *

#0#15778* 191=LNM3*
-14706 LNM3
-11447 LNM3

FOOT NOTES:

① Source of Data Codes:

S D Ø A R L G Z — reporting agency, driller, owner, other gov't, other reported, logs, geologist, other

No drillers log available

397

FORM NO 9-1904-A

SITE NO. SB-14-3-28CBDD1-6
AKRG 01804

U.S. DEPT. OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION
GROUND WATER SITE INVENTORY
SITE SCHEDULE

Recorded by Liska / Waller

Date Nov. 17, 1977

Check One ✓ English ___ Metric Units

GENERAL SITE DATA (0)

Site Ident No 6,1,1,6,1,8,1,4,9,4,9,4,8,0,1 (5–19)

RG Number R=0 *

Transaction T=(A) D M V * (add, delete, modify, verified)

Site-Type 2=C D H I M P T (W) * (collector, drain, sinkhole, connector, multiple, pond, tunnel or, well shaft, well)

Data Reliability 3=C (U) L M * (field checked, unchecked, location not accurate, minimal data)

Reporting Agency 4=USGS *

Project No. 5= *

District 6=02 *

State 7=02 *

County (or town) Elmendorf

8=020 *

Latitude 9=61618 * (deg min sec)

Longitude 10=1494948 * (deg min sec)

Lat-Long Accuracy 11=S (F) T M * (sec, 5 sec, 10 sec, Min)

Number 12=SB0140032 8CBDD1 006 *

Land Net Loc. 13=SE NW SW 28 T 014N R 003W S * (1/4 1/4 1/4 section, township, range, merid)

Location Map 14=ANCHORAGE C NICINIT *

Scale 15=24000 *

Altitude 16=165. *

Method of Measurement 17=A L (M) * (altimeter, level, map)

Accuracy 18=2 *

Topo Setting 19=D C E (F) H K L Ø P S T U V W * (depression, stream channel, dunes, flat, hilltop, sink, swamp, offshore, pediment, hillside, terrace, undulating, valley flat, upland draw)

Hydrologic Unit (OWDC) 20=19050002 *

Date of First Construction/Completion 21= / / * (month day year)

Use of Site 23=A D E G H Ø M P R S T U (W) X Z * (abode, drain, geothermal, seismic, heat reserv, observation, mine, oil or gas, recharge, repress, test, unused, withdrawal, waste, destroyed)

Use of Water 24=A B C D E F (H) I M N P R S T U Y Z * (air cond., bottling, commercial, dewater, power, fire, domestic, irrigation, medicinal, industrial, public supply, recreation, stock, institution, unused, desal, other)

Secondary Water Use 25= *

Tertiary Use of Water 26= *

Depth of Hole 27=252. *

Depth of Well 28=250. *

Source of Depth Data ① 29=R *

Water Level 30=153.1 *

Date Measured 31=10/3/1967 * (month day year)

Source ① 33=S *

Method of Measurement 34=(A) C E G H L M R S T V Z * (airline, calibrated airline, estimated, pressure gage, calibrated pressure gage, geophysical logs, manometer, reported, steel tape, electric tape, calibrated electric tape, other)

Site Status 37=D F G H Ø P R S T V X Z * (dry, flowing, nearby flowing, nearby recently flowing, obstruction, pumping, recently pumped, nearby pumping, nearby recently pumped, foreign substance, surface water effects, other)

273=Y*

Source of Geohydrologic Data ① 36= *

Pump Used 35= * (no)

Measuring Point 266= .90 *

Measuring Point Date 267=09/25/1970 * (month day year)

OWNER IDENTIFICATION (1)

R=158 * T=(A) D M * (add, delete, modify)

Date of Ownership 159#00/00/1969 * (month day year)

Name: Last 161=USAF *

First 162=ELMENDORF *

Middle Initial 163= *

OTHER SITE IDENTIFICATION NUMBERS (1)

R=189 * T=(A) D M * (add, delete, modify)

New Card Same R & T

190# E-8 *
Ident 190#0.06 *
Assigner 191=AKMP *

Ident 190#01804 *
Assigner 191=AKRG *

190# BLDG 52-140 *
191=ELMENDORF BLDG *

SITE VISIT DATA (1)

R=186 * T=A D M * (add, delete, modify)

Date of Visit 187#11/22/1968 * (month day year)

Name of Person 188=ZENONE C *

FIELD WATER QUALITY MEASUREMENTS (1)

R=192 * T=(A) D M * (add, delete, modify)

Date 193#03/06/1972 * (month day year)

Geohydrologic Unit 195 # *

New Card Same R thru 195

Temperature 196#00010 * Degrees C 197=4.5 *

Conductance 196#00095 * µ Mhos 197= *

Other (STORET) Parameter 196# * Value 197= *

Other (STORET) Parameter 196# * Value 197= *

190#5379* 191=~~[illegible]~~
~~14515~~ LAB
~~13317~~ LAB
~~12958~~ LAB
~~11067~~ LAB
~~10036~~ LAB
~~8805~~ LAB
~~8365~~ LAB
~~7545~~ LAB
~~6959~~ LAB

190#6518* 191=
~~10214~~
~~16575~~ 191=

FOOT NOTES:

① Source of Data Codes:

S D Ø A R L G Z (reporting agency, driller, owner, other gov't, other reported, logs, geologist, other)

190# 263 * 191=WALLER GI FLD NO*
190# 378 * 191=WALLER61 OFF NO*
190# 14 * 191=HYD-DATA 14, 1961*

No drilling log available

395

AKRG | HEADER | WATER LEVEL | KEY PUNCH

REMARK	DATE	INITIALS
OK	11-17-77	JS
OK	12-15-77	JS
OK	12-20-77	WP

X

ORM NO 9-1904— A

SITE NO. SB-14-3-33BDCC1-1
AKRG 00013

Recorded by Liska | Trainer

U.S. DEPT. OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION
GROUND WATER SITE INVENTORY
SITE SCHEDULE

Date 12-7-77

Check One ✓ English ___ Metric Units

KLIMARK | DATE | INITIALS
AKRG | 12-8-77 | 8.9
HEADER | 12-15-77 | L.S
WATER LEVEL | 9/78 | MC
KEY PUNCH | | |

GENERAL SITE DATA (0)

Site Ident No 61,15,42.1,49,49,43.01 (5–19) | RG Number R-0 | Transaction T-(A) D M V (add, delete, modify, verified)

Site-Type 2-C D H I M P T (W) (collector, drain, sinkhole, connector, multiple, pond, tunnel or well shaft, well) | Data Reliability 3-C (U) L M (field checked, unchecked, location not accurate, minimal data) | Reporting Agency 4-USGS

Project No. 5- | District 6-02 | State 7-02 | County (or town) 7-Elmendorf 8-020

Latitude 9-61 15 42 (deg min sec) | Longitude 10-149 49 43 (deg min sec) | Lat-Long Accuracy 11-S (F) T M (sec, 5 sec, 10 sec, Min)

Local Number 12-SB0140033BDCC1 001 | Land Net Loc. 13-SW SE NW S 33 T 014N R 003W S (1/4 1/4 1/4 section, township, range, meridian)

Location Map 14-ANCHORAGE & VICINITY | Scale 15-24000

Altitude 16-380. | Method of Measurement 17-A L (M) (altimeter, level, map) | Accuracy 18-2

Topo Setting 19-D C E F (H) K L Ø P S T U V W (depression, stream, dunes, flat, hilltop, sink, swamp, offshore, pediment, hillside, terrace, undulating, valley, upland flat draw channel) | Hydrologic Unit (OWDC) 20-19050002

Date of First Construction/Completion 21-00/00/1953 (month day year) | Use of Site 23-A D E G H Ø M P R S T U (W) X Z (anode, drain, geothermal, seismic, heat reserv, observation, mine, oil or gas, recharge, repress, test, unused, withdrawal, waste, destroyed)

Use of Water 24-A B C D E F H I M N P R S (T) U Y Z (air cond., bottling, commercial, dewater, power, fire, domestic, irrigation, medicinal, industrial, public supply, recreation, stock, institution, unused, desal, other)

Secondary Water Use 25- | Tertiary Use of Water 26- | Depth of Hole 27-406. | Depth of Well 28-406. | Source of Depth Data ① 29-

Water Level 30- | Date Measured 31- (month day year) | Source ① 33-

Method of Measurement 34-A C E G H L M R S T V Z (airline, calibrated airline, estimated, pressure gage, calibrated pressure gage, geophysical logs, manometer, reported, steel tape, steel tape, electric, calibrated electric tape, other)

Site Status 37-D F G H Ø P R S T V X Z (dry, flowing, nearby flowing, nearby recently flowing, obstruction, pumping, recently pumped, nearby pumping, nearby recently pumped, foreign substance, surface water effects, other)

273=Y*

Source of Geohydrologic Data ① 36- | Pump Used 35- (no) | Measuring Point 266- | Measuring Point Date 267- (month day year)

OWNER IDENTIFICATION (1)

R-158 | T-(A) D M (add, delete, modify) | Date of Ownership 159 # 00/00/1953

Name: Last 161-USAF | First 162-ELMENDORF | Middle Initial 163-

OTHER SITE IDENTIFICATION NUMBERS (1)

R-189 | T-(A) D M (add, delete, modify) | New Card Same R & T

Ident 190 # E-29 * | Assigner 191 = ELMENDORF *

Ident 190 # 001 | Assigner 191 - AKMP

Ident 190 # 00013 | Assigner 191 - AKRG

190 # BLDG42-500 * | 191 = ELMENDORF BLDG *

SITE VISIT DATA (1)

R-186 | T-(A) D M (add, delete, modify) | Date of Visit 187# 04/09/1954 (month day year) | Name of Person 188-DOWLING C

FIELD WATER QUALITY MEASUREMENTS (1)

R-192 | T-(A) D M (add, delete, modify) | Date 193 # 03/29/1956 (month day year) | Geohydrologic Unit 195 #

New Card Same R thru 195

Temperature 196 # 0010 | Degrees C 197-4.5

Conductance 196 # 00095 | µ Mhos 197 -

Other (STORET) Parameter 196 # | Value 197 -

Other (STORET) Parameter 196 # | Value 197 -

190#		191=	
8364	LAB	2373	LAB
7553	LAB	13330	LAB
6965	LAB	10029	LAB
6070	LAB	7960	LAB
5052	LAB	11438	LAB
6517	LAB	15385	LAB
3446	LAB	14521	LAB
		16584	LAB

FOOT NOTES:

① Source of Data Codes:

S D Ø A R L G Z (reporting agency, driller, owner, other gov't reported, other, logs, geologist, other)

190 # 298 * 191 = WALLER 61 FLD NO *

190 # 374 * 191 = WALLER 61 OFF NO *

190 # 13 * 191 = HYD. DATA 14, 1961 *

399

Well No. 1

Latitude-longitude 61 d 15.42 m s N 149 d 49 m 43 s W

HYDROGEOLOGIC CARD

SAME AS ON MASTER CARD [1–19] Physiographic Province: [20–21] 29 Section: [22] C Drainage Basin: [23–25] 808 Subbasin: [26]

Topo of well site: (D) depression, (C) stream channel, (E) dunes, (F) flat, (H) hilltop, (K) sink, (L) swamp, (Ø) offshore, (P) pediment, (S) hillside, (T) terrace, (U) undulating, (V) valley flat [27]

MAJOR AQUIFER: system, series [28–29] aquifer, formation, group [30–31]

Lithology: [32–33] Origin: [34] Aquifer Thickness: ft

[35–37] Length of well open to: ft [38–40] Depth to top of: ft [41–43]

MINOR AQUIFER: system, series [44–45] aquifer, formation, group [46–47]

Lithology: [48–49] Origin: [50] Aquifer Thickness: ft

[51–53] Length of well open to: ft [54–56] Depth to top of: ft [57–59]

Intervals Screened:

Depth to consolidated rock: ft [60–63] Source of data: [64]

Depth to basement: ft [65–68] Source of data: [69]

Surficial material: [70–71] Infiltration characteristics: [72]

Coefficient Trans: gpd/ft [73–75] Coefficient Storage: [76–78]

Coefficient Perm: gpd/ft^2; Spec cap: gpm/ft; Number of geologic cards: [79]

LOG:

0-60	- Yellow clay, medium gravel
60-80	- Blue clay, medium gravel
80-90	- Hardpan
90-100	- Blue clay, medium gravel
100-128	- Blue clay, some gravel
128-134	- Hardpan, some water
134-138	- Blue clay, some gravel, lost water
138-150	- Blue clay, tightly packed
150-190	- Yellow clay, some gravel
190-250	- Fine gravel, some clay, hit some water, lost water
250-270	- Clay and gravel, tightly packed
270-310	- Sand and silt, some water, lost water
310-350	- Blue clay, tightly packed
350-363	- Coarse gravel, boulders, and clay
363-369	- Medium gravel and sand, bit water at 366'
369-388	- Medium gravel, some clay and silt
388-406	- Medium gravel
	Water level?

33

Well No. 1

NOTE: Casing-- 8" to 363' and 6" to 406'.

GPO 857-700

Boring Log

HS-01
Page 1 of 1

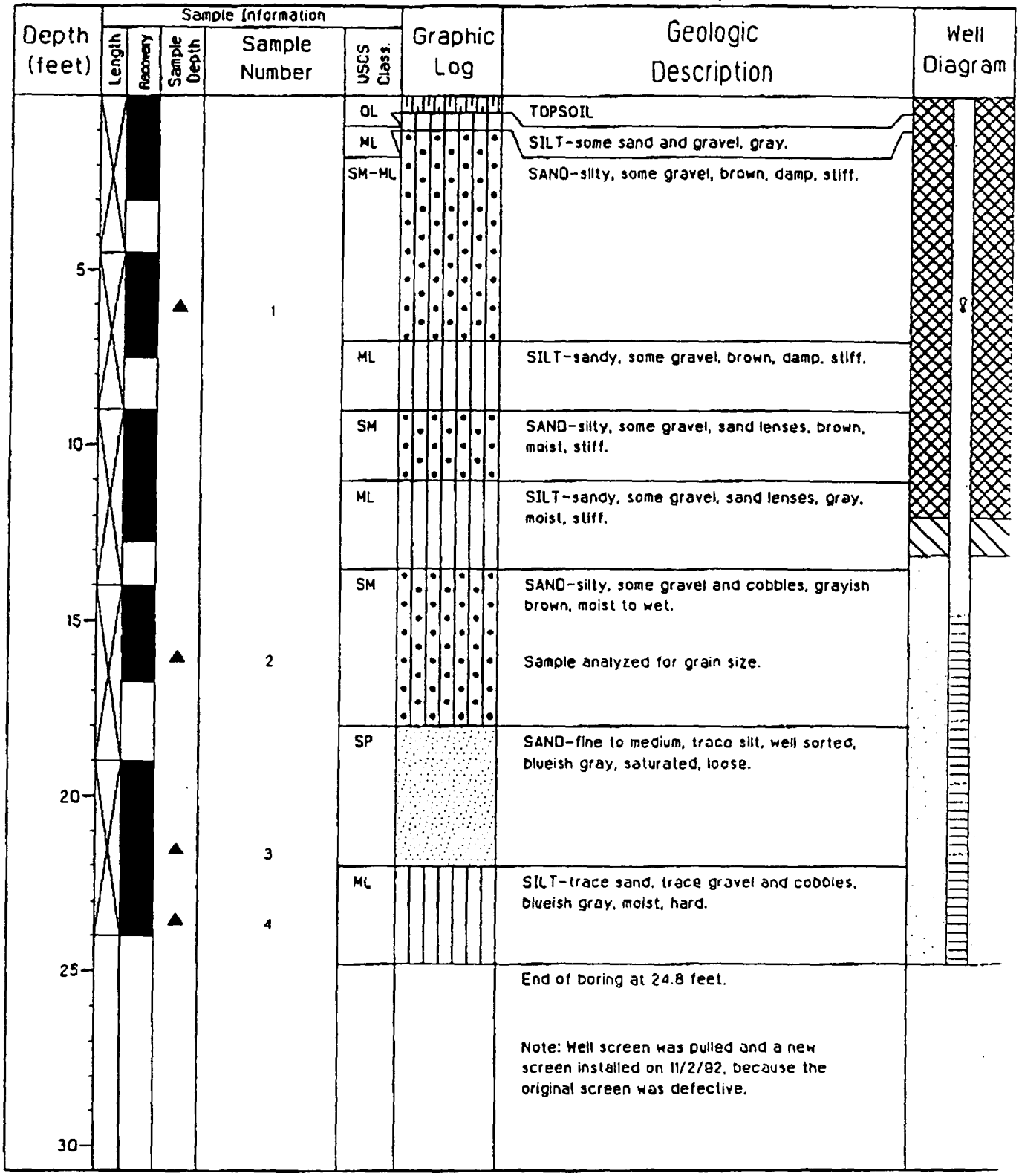
Project Number: 6583-111-330
Project Name: Hydrogeologic Study
Client: U.S. Air Force, 3rd CES/DEVR
Location: Elmendorf AFB, Anchorage, AK

Drilling Company: Discovery Drilling
Drilling Method: 4 1/2 in. HSA

East Coordinate: 1665728.83
North Coordinate: 2655015.89
Top of Riser (t.o.r.) 132.72 ft
Ground Surface: 130.3 ft
Total Depth: 24.8 ft

Date Started: 10/12/92
Date Completed: 11/2/92

Water Level: 8.44 ft (t.o.r.)
Logged by: M. MacDonald
Approved by: D. Schumacher



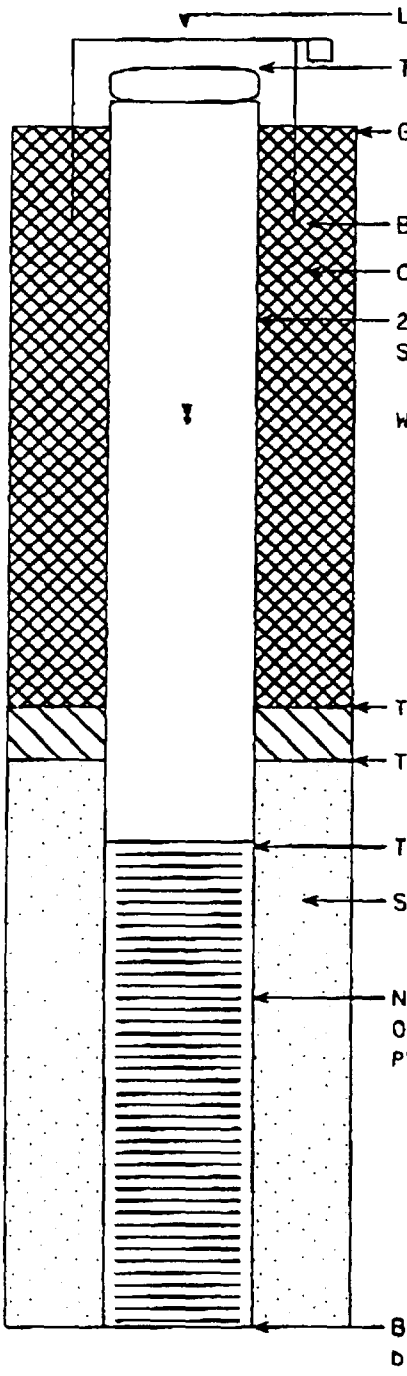
WELL NUMBER: HS-01

PROJECT NUMBER: 8583-111-330
CLIENT: U.S. Air Force, 3rd CES/DEVR
SITE: Elmendorf AFB, Anchorage AK

DATE INSTALLED: 11/2/92
TOTAL DEPTH (feet): 24.8
INSTALLED BY: Discovery Drilling

ELEV. TOP RISER PIPE: 132.72 ft.
GEOLOGIST: M. MacDonald
APPROVED BY: D. Schumacher

MONITORING WELL CONSTRUCTION DETAIL



	DEPTH FROM G.S. (feet)	ELEVATION
Locking monument case		
Top of Riser Pipe (2.4 feet above ground surface)		
Ground Surface (G.S.)	0	130.3
Bottom of monument case	2.5	127.8
Cement grout		
2 in. inside diameter Schedule 40 PVC riser pipe.		
Water level	8.0	124.28
Top of bentonite seal	12	118.3
Top of sand pack	13.1	117.2
Top of screen	14.8	115.5
Sand pack		
Nominal 2 in. inside diameter 0.020 in. slotted PVC		
Bottom of screen and bottom of borehole.	24.8	105.5

9.5 in.

NOT TO SCALE

Elevations referenced to mean sea level.

ENSR CONSULTING & ENGINEER

Boring Log

HS-02A
Page 1 of 1

Project Number: 6583-111-330
Project Name: Hydrogeologic Study
Client: U.S. Air Force, 3rd CES/DEVR
Location: Elmendorf AFB, Anchorage, AK

Drilling Company: Discovery Drilling
Drilling Method: 4 1/2 in. HSA

East Coordinate: 1665885.83
North Coordinate: 2655310.93
Top of Riser (t.o.r.) 126.40 ft
Ground Surface: 123.6 ft
Total Depth: 24.4 ft

Date Started: 10/13/92
Date Completed: 10/15/92

Water Level: 17.25 ft (t.o.r.)
Logged by: M. MacDonald
Approved by: D. Schumacher

Depth (feet)	Sample Information: Length	Recovery	Sample Depth	Sample Number	USCS Class.	Graphic Log	Geologic Description	Well Diagram
					OL		TOPSOIL	
					ML		SILT-some sand, orange-brown, damp, loose	
			▲	1	SM-ML		trace sand, trace gravel, brown, damp, medium stiff.	
5			▲	2			SAND-fine to medium, silty, trace to some coarse sand and fine gravel, brownish gray, soft to stiff, damp.	
					ML-SM		SILT-sandy, trace to some gravel, sand lenses, brown, damp, stiff.	
10					SM		SAND-fine to medium, some silt, well sorted, gray, loose, damp.	
			▲	3	ML		SILT-some sand to sandy, trace to some gravel, sand lenses, brown, soft to stiff, damp to moist.	
							wet	
15					SM		SAND-medium to coarse, silty, some gravel and cobbles, wet to saturated, gray-brown, loose.	
			▲	4	ML-SM		SILT-sandy, some gravel and cobbles, brownish gray, stiff, wet.	
					ML		SILT-trace sand, brown, medium stiff, wet.	
					SM-ML		SAND-medium to coarse, silty, brown, loose, saturated.	
20					ML		SILT-trace fine sand, varved-stratified, brown, medium stiff, saturated.	
							-2 inch coarse sand lenses at 20.9', 22', and 22.5'.	
25							End of boring at 24.4 feet.	
							Monitoring well HS-02A installed in unsampled boring 5 feet east of this boring.	
30								

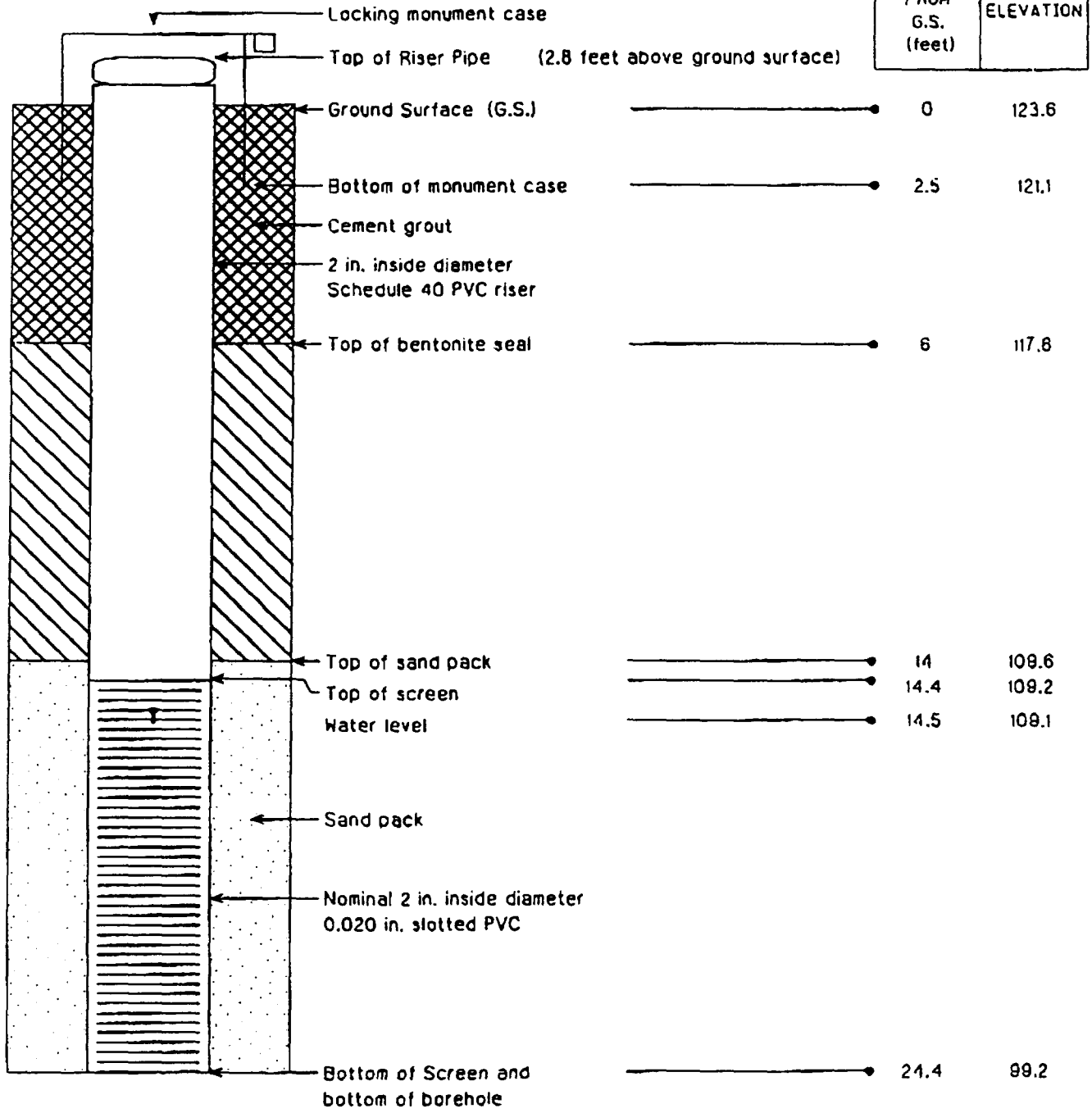
WELL NUMBER: HS-02A

PROJECT NUMBER: 6583-111-330
CLIENT: U.S. Air Force, 3rd CES/DEVR
SITE: Elmendorf AFB, Anchorage AK

DATE INSTALLED: 10/15/92
TOTAL DEPTH (feet): 24.4
INSTALLED BY: Discovery Drilling

ELEV. TOP RISER PIPE: 126.40 ft
GEOLOGIST: D. Schumacher
APPROVED BY: L. Campbell

MONITORING WELL CONSTRUCTION DETAIL



	DEPTH FROM G.S. (feet)	ELEVATION
Ground Surface (G.S.)	0	123.6
Bottom of monument case	2.5	121.1
Top of bentonite seal	6	117.6
Top of sand pack	14	109.6
Top of screen	14.4	109.2
Water level	14.5	109.1
Bottom of Screen and bottom of borehole	24.4	99.2

9.5 in.

NOT TO SCALE

Elevations referenced to mean sea level.

Boring Log

HS-02B
Page 1 of 2

Project Number: 8583-111-330
Project Name: Hydrogeologic Study
Client: U.S. Air Force 3rd CES/DEVR
Location: Elmendorf AFB, Anchorage, AK

Drilling Company: Discovery Drilling
Drilling Method: 4 1/2 in. HSA

East Coordinate: 1885696.65
North Coordinate: 2655310.86
Top of Riser (t.o.r.) 126.21 ft
Ground Surface: 124.0 ft
Total Depth: 58 ft

Date Started: 10/12/92
Date Completed: 10/13/92

Water Level: 13.00 ft (t.o.r.)
Logged by: M. MacDonald
Approved by: D. Schumacher

Depth (feet)	Sample Information: Length	Recovery	Sample Depth	Sample Number	USCS Class.	Graphic Log	Geologic Description	Well Diagram
					OL		TOPSOIL	
					SM		SAND-fine to coarse, some silt, some gravel and cobbles, brown to gray, damp, loose.	
5								
			▲	1	ML		SILT-sandy, some gravel, sand lenses, brown, damp, hard.	
10					SM		SAND-fine to coarse, some silt to silty, some gravel and cobbles, brown, moist to wet, loose.	▽
			▲	2				
15								
20					ML		SILT-wet, soft, brown-gray.	
			▲	3	SP-SM		SAND-fine to coarse, trace silt, trace gravel, brown, saturated, loose	
25							some silt, some gravel.	
30					ML		SILT-some sand, some gravel, blueish gray, damp, hard.	
			▲	4			-Sample analyzed for grain size.	
					SM-ML		Increasing gravel and cobbles at 31.5 ft.	
35							SAND-very fine, silty, blueish gray, soft to medium stiff, wet.	

Boring Log

HS-02B
Page 2 of 2

Project Number: 6583-111-330
Project Name: Hydrogeologic Study
Client: U.S. Air Force 3rd CES/DEVR
Location: Elmendorf AFB, Anchorage, AK

Drilling Company: Discovery Drilling
Drilling Method: 4 1/2 in. HSA

East Coordinate: 1665696.65
North Coordinate: 2655310.86
Top of Riser (t.o.r.) 126.21 ft
Ground Surface: 124.0 ft
Total Depth: 58 ft

Date Started: 10/12/92
Date Completed: 10/13/92

Water Level: 13.00 ft (t.o.r.)
Logged by: M. MacDonald
Approved by: D. Schumacher

Depth (feet)	Sample Information: Length	Sample Information: Recovery	Sample Information: Sample Depth	Sample Information: Sample Number	USCS Class.	Graphic Log	Geologic Description	Well Diagram
					SM		SILT-some sand and gravel, blueish gray.	
					SM		SAND-fine to medium, blueish gray.	
							-No recovery, because of loose sand.	
40					ML		SILT-some sand and gravel, blueish gray, hard, damp.	
					SM		SAND-fine, some silt, trace medium to coarse sand, blueish gray, loose, saturated.	
45			▲	5				
50					ML		SILT-trace sand to sandy, trace gravel, blueish, damp to moist, stiff.	
55							-some sand and gravel, dry.	
							End of boring at 68 feet.	
60							Borehole drilled to 58 feet and backfilled with bentonite pellets to 49 feet to set well.	
65								
70								

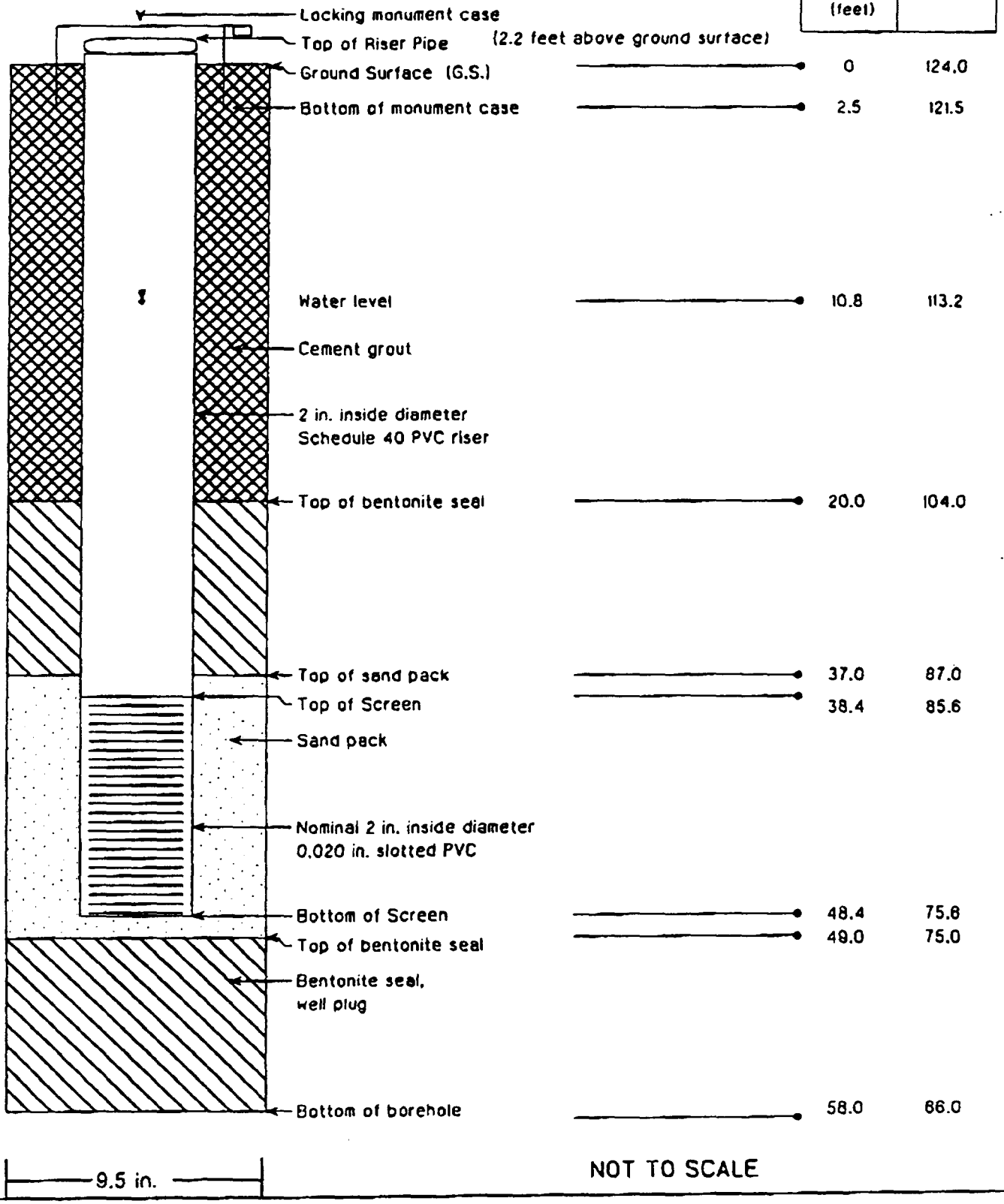
WELL NUMBER: HS-02B

PROJECT NUMBER: 6583-111-330
CLIENT: U.S. Air Force, 3rd CES, DEVR
SITE: Elmendorf AFB, Anchorage AK

DATE INSTALLED: 10/13/92
TOTAL DEPTH (feet): 58
INSTALLED BY: Discovery Drilling

ELEV. TOP RISER PIPE: 126.21 ft
GEOLOGIST: M. MacDonald
APPROVED BY: D. Schumacher

MONITORING WELL CONSTRUCTION DETAIL



	DEPTH FROM G.S. (feet)	ELEVATION
Ground Surface (G.S.)	0	124.0
Bottom of monument case	2.5	121.5
Water level	10.8	113.2
Top of bentonite seal	20.0	104.0
Top of sand pack	37.0	87.0
Top of Screen	38.4	85.6
Bottom of Screen	48.4	75.6
Top of bentonite seal	49.0	75.0
Bottom of borehole	58.0	66.0

NOT TO SCALE

Elevations referenced to mean sea level.

ENSR CONSULTING & ENGINEER

Boring Log

HS-03
Page 1 of 1

Project Number: 6583-111-330
Project Name: Hydrogeologic Study
Client: U.S. Air Force 3rd CES/DEVR
Location: Elmendorf AFB, Anchorage, AK

Drilling Company: Discovery Drilling
Drilling Method: 4 1/2 in. HSA

East Coordinate: 1665399.67
North Coordinate: 2655286.88
Top of Riser (t.o.r.) 120.85 ft
Ground Surface: 118.5 ft
Total Depth: 35.2 ft

Date Started: 10/12/92
Date Completed: 10/12/92

Water Level: 18.51 ft (t.o.r.)
Logged by: M. MacDonald
Approved by: D. Schumacher

Depth (feet)	Sample Information: Length	Recovery	Sample Depth	Sample Number	USCS Class.	Graphic Log	Geologic Description	Well Diagram
					OL		TOPSOIL	
					SM		SAND-fine to coarse, some silt, trace to some gravel, poorly sorted, brown, damp.	
					ML		SILT-some sand and gravel, brown, damp.	
5					SM		SAND-some silt, some gravel, brown, poorly sorted, damp.	
			▲	1	ML-SM		SILT-sandy, some gravel, sand lenses up to 2 inches thick, brown, damp , hard.	
					SM		SAND-fine to medium, some silt, some gravel and gravel, brown, damp.	
10					ML-SM		SILT-sandy, some clay, some gravel, blueish gray, moist to wet, soft to stiff.	
			▲	2			Attempted Shelby tube at 14 feet-no recovery.	
15								
20					SM		SAND-medium to coarse, some silt/clay, some gravel, blueish gray, wet,	
			▲	3	SP		SAND-fine to medium, trace silt, trace coarse sand and gravel, gray, loose, wet.	
25								
			▲	4	ML		SILT-sandy, some gravel and cobbles, blueish gray, moist to wet.	
					SP		SAND-fine to coarse, saturated, gray. some silt, some gravel	
30								
			▲	5	ML		SILT-trace sand, blueish gray.	
35							End of boring at 35.2 feet.	
40								

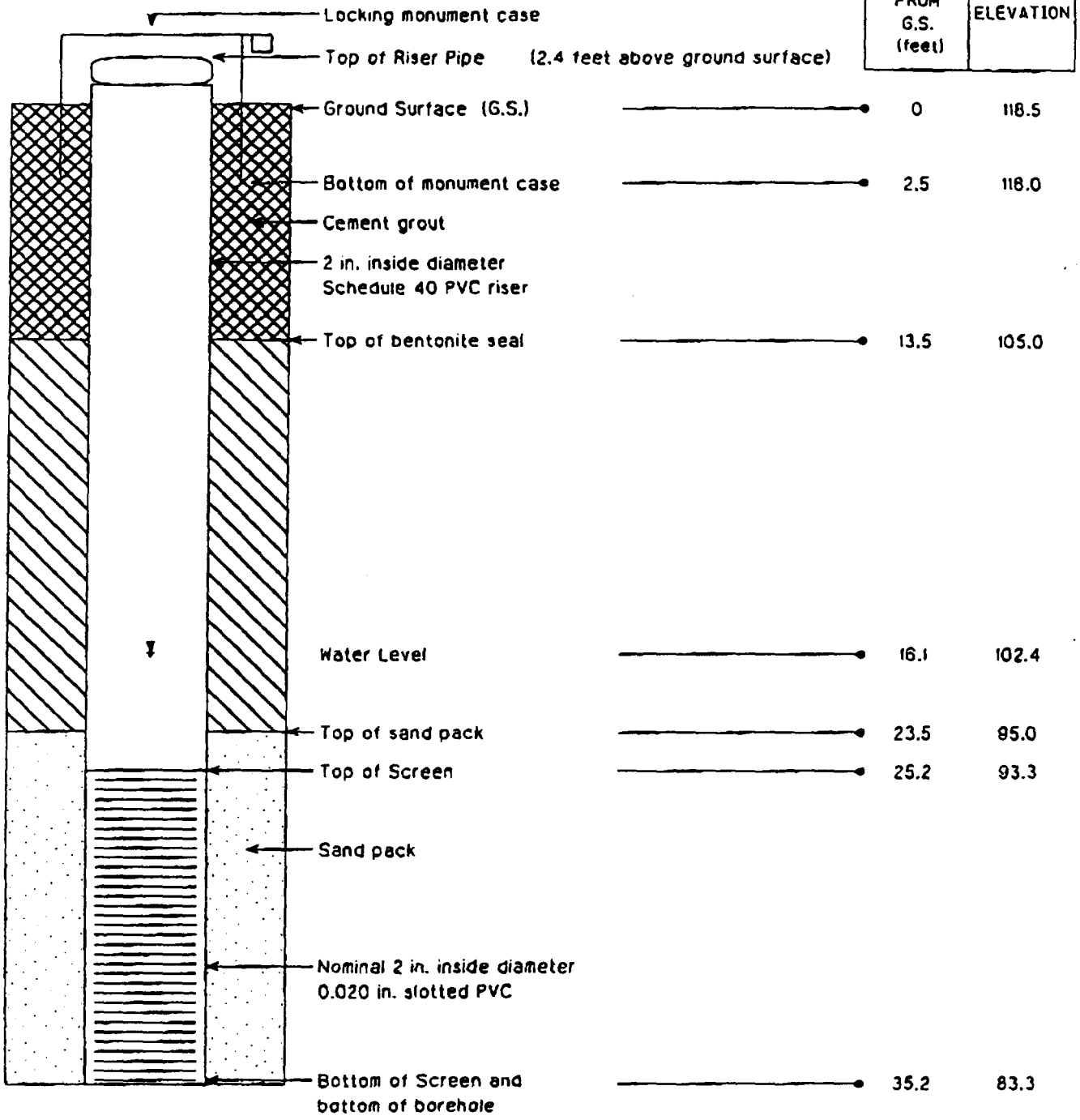
WELL NUMBER: HS-03

PROJECT NUMBER: 8583-111-330 | DATE INSTALLED: 10/12/92 | ELEV. TOP RISER PIPE: 120.85 ft

CLIENT: U.S. Air Force, 3rd CES/DEVR | TOTAL DEPTH (feet): 35.2 | GEOLOGIST: M. MacDonald

SITE: Elmendorf AFB, Anchorage AK | INSTALLED BY: Discovery Drilling | APPROVED BY: O. Schumacher

MONITORING WELL CONSTRUCTION DETAIL



	DEPTH FROM G.S. (feet)	ELEVATION
Ground Surface (G.S.)	0	118.5
Bottom of monument case	2.5	118.0
Top of bentonite seal	13.5	105.0
Water Level	16.1	102.4
Top of sand pack	23.5	95.0
Top of Screen	25.2	93.3
Bottom of Screen and bottom of borehole	35.2	83.3

9.5 in.

NOT TO SCALE

Elevations referenced to mean sea level.

ENSR CONSULTING & ENGINEER

Boring Log

HS-04
Page 1 of 1

Project Number: 8583-111-330
Project Name: Hydrogeologic Study
Client: U.S. Air Force 3rd CES/DEVR
Location: Elmendorf AFB, Anchorage, AK

Drilling Company: Discovery Drilling
Drilling Method: 4 1/2 in. HSA

East Coordinate: 1665521.12
North Coordinate: 2655433.81
Top of Riser (t.o.r.) 124.12 ft
Ground Surface: 121.9 ft
Total Depth: 29.5 ft

Date Started: 10/15/92
Date Completed: 10/15/92

Water Level: 18.78 ft (t.o.r.)
Logged by: D. Schumacher
Approved by: L. Campbell

Depth (feet)	Sample Information: Length	Recovery	Sample Depth	Sample Number	USCS Class.	Graphic Log	Geologic Description	Well Diagram
					OL		Topsoil	
					ML		SILT-trace sand, orange brown becoming brown, damp, medium stiff to stiff.	
							sandy/gravelly	
							no gravel	
5							-cobbles, difficult drilling	
					SM		SAND-fine to medium, silty, some gravel, brown, loose, damp.	
					SP		SAND-fine to medium, trace silt, brown-salt and pepper appearance, damp, loose.	
10							-fine to coarse, trace fine gravel.	
15							-varved, approximate 1 inch sand layers alternating with 1/4 inch silt layers, brown, saturated.	
					GM		GRAVEL-fine to medium, sandy, trace to some silt, saturated, dark gray, loose.	
					SP		SAND-fine to coarse, trace to some fine gravel, brownish gray, loose, saturated.	
20								
25				1			Attempted Shelby tube at 24.5 feet, no recovery.	
							-Sample analyzed for grain size.	
					ML		SILT-trace clay, stiff, saturated.	
30							End of boring at 29.5 feet.	

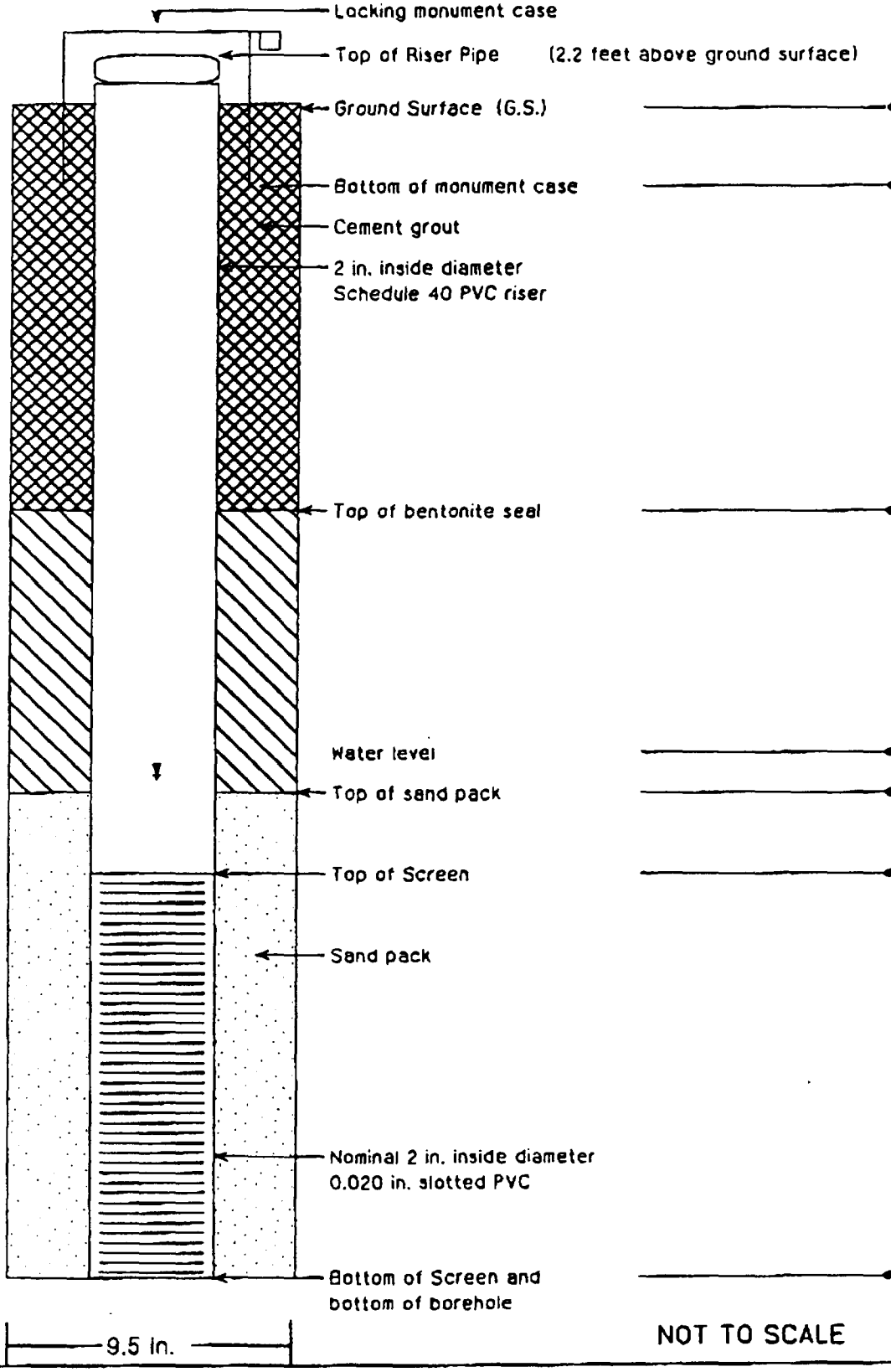
WELL NUMBER: HS-04

PROJECT NUMBER: 6583-111-330
CLIENT: U.S. Air Force, 3rd CES, DEVR
SITE: Elmendorf AFB, Anchorage AK

DATE INSTALLED: 10/15/92
TOTAL DEPTH (feet): 29.0
INSTALLED BY: Discovery Drilling

ELEV. TOP RISER PIPE: 124.12 ft
GEOLOGIST: D. Schumacher
APPROVED BY: L. Campbell

MONITORING WELL CONSTRUCTION DETAIL



	DEPTH FROM G.S. (feet)	ELEVATION
Ground Surface (G.S.)	0	121.9
Bottom of monument case	2.5	119.4
Top of bentonite seal	10.0	111.9
Water level	18.6	105.3
Top of sand pack	17.8	104.1
Top of Screen	19.0	102.9
Bottom of Screen and bottom of borehole	29.0	92.9

NOT TO SCALE

Elevations referenced to mean sea level.

ENSR CONSULTING & ENGINEERI

Boring Log

HS-05
Page 1 of 1

Project Number: 6583-111-330
Project Name: Hydrogeologic Study
Client: U.S. Air Force 3rd CES/OEVR
Location: Elmendorf AFB, Anchorage, AK

Drilling Company: Discovery Drilling
Drilling Method: 4 1/2 in. HSA

East Coordinate: 1685195.28
North Coordinate: 2855378.73
Top of Riser (t.o.r.) 122.49 ft
Ground Surface: 120.0 ft
Total Depth: 34.5 ft

Date Started: 10/16/92
Date Completed: 10/16/92

Water Level: 25.96 ft (t.o.r.)
Logged by: D. Schumacher
Approved by: L. Campbell

Depth (feet)	Sample Information: Length	Recovery	Sample Depth	Sample Number	USCS Class.	Graphic Log	Geologic Description	Well Diagram
					OL		TOPSOIL	
					SM		SAND-medium, some silt, some gravel, orange brown, damp, loose.	
					ML		SILT-trace sand, some gravel, brownish gray, very stiff to hard, damp to wet.	
5					ML-SM		SILT-sandy, some cobbles, some gravel, brown, stiff, damp.	
10					SM-ML		SAND-fine to coarse, silty, some gravel and cobbles, brownish gray, slightly stiff, moist to wet cobble stuck in tip of sampler did not attempt to sample 12 to 14.5 feet because of cobbles.	
15					ML-SM		SILT-sandy, some gravel and cobbles, brown, damp to moist, slightly stiff.	
					SP		SAND-fine to coarse, trace silt, trace gravel, saturated, loose, gray-salt and pepper.	
20			▲	1			-occasional pieces of coal gravel.	
25			▲	HS-05-ST1			Collect Shelby tube sample. gravelly, fine	
30							-lost continuous sample at 30 feet, no recovery, retrieved sampler before installing well.	
35							End of boring at 34.5 feet.	

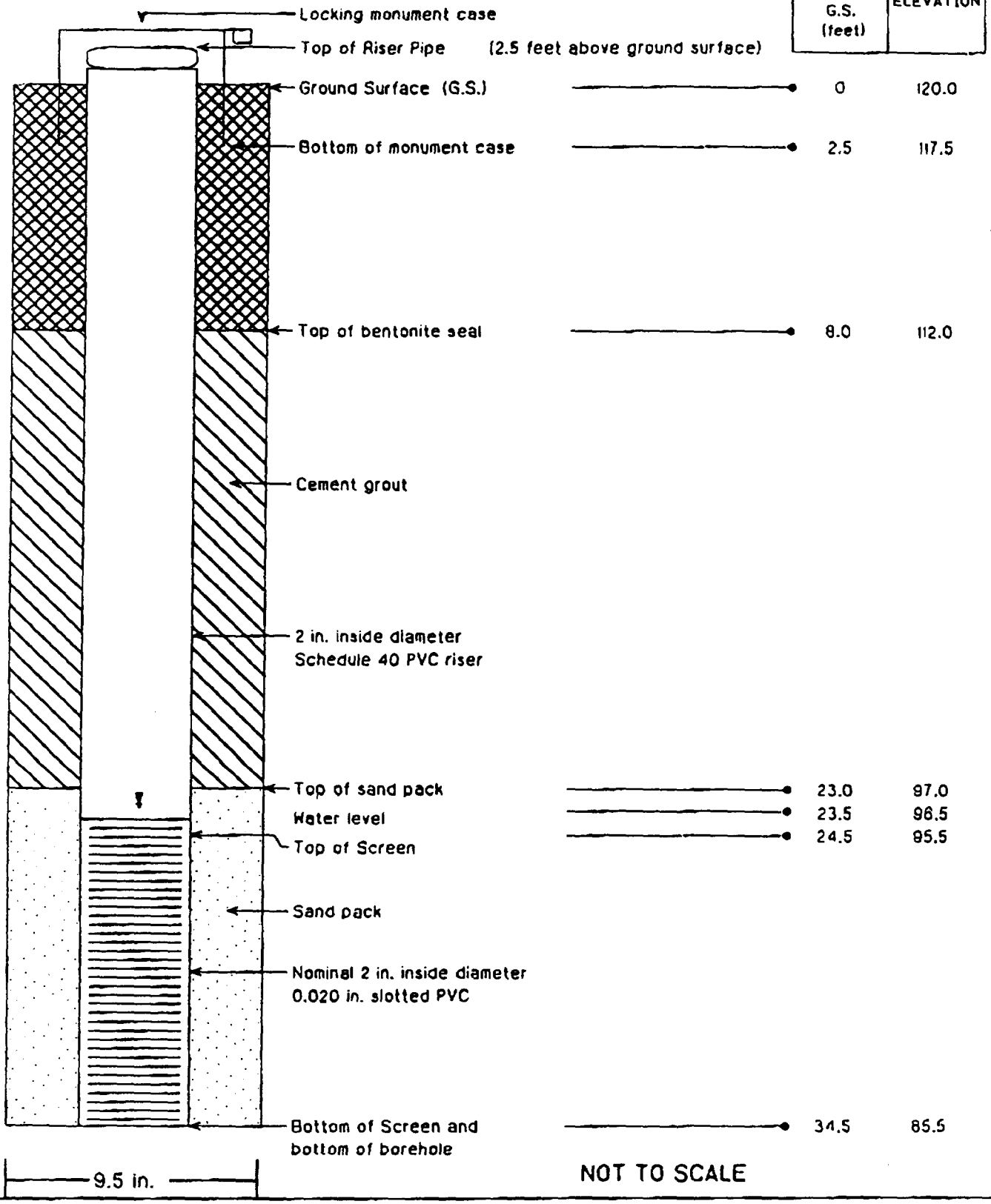
WELL NUMBER: HS-05

PROJECT NUMBER: 6583-111-330
CLIENT: U.S. Air Force, 3rd CES, DEVR
SITE: Elmendorf AFB, Anchorage AK

DATE INSTALLED: 10/18/92
TOTAL DEPTH (feet): 34.5
INSTALLED BY: Discovery Drilling

ELEV. TOP RISER PIPE: 122.49 ft
GEOLOGIST: D. Schumacher
APPROVED BY: L. Campbell

MONITORING WELL CONSTRUCTION DETAIL



	DEPTH FROM G.S. (feet)	ELEVATION
Ground Surface (G.S.)	0	120.0
Bottom of monument case	2.5	117.5
Top of bentonite seal	8.0	112.0
Top of sand pack	23.0	97.0
Water level	23.5	96.5
Top of Screen	24.5	95.5
Bottom of Screen and bottom of borehole	34.5	85.5

Elevations referenced to mean sea level.

APPENDIX C
WELLS WITHIN 1/4 MILE
OF ELMENDORF AFB

Appendix C

Wells Within 1/4 Mile of Elmendorf AFB

WELLS WITHIN 1/4 MILE OF ELMENDORF

WELL REFERENCE ID NUMBER	USGS WELL NUMBER	LATITUDE (DEGREES)	LONGITUDE (DEGREES)	PRIMARY USE OF WATER	ELEVATION OF LAND SURFACE (FEET)	DEPTH OF WELL (FEET)	DATE WELL CONSTRUCTED	ELEVATION OF WATER SURFACE (FEET)	DATE WATER LEVEL MEASURED	OWNER	OTHER IDENTIFIER	DISCHARGE (GPM)	DATE DISCHARGE MEASURED
1	SB01300313BBAB1	611326	1494429	C	238.00	98.0	09-03-55	218.00	09-03-55	MCCLAIN & HAYES	330-A		
2	SB01300313BABC1	611326	1494416	P	252.00	121.0	08-12-64	227.00	08-12-64	JONES FRANK		12.00	08-12-64
3	SB01300313BBBD1	611324	1494436	H	235.00	106.0	06-01-62	205.00	06-01-62	CONLON ED		12.00	06- -62
4	SB01300313BBBD2	611324	1494436	H	235.00	91.0	08-13-64	213.00	08-13-64	JONES LUKE		45.00	08-13-64
5	SB01300313BBCB1	611321	1494443	H	235.00	86.0	01-05-65			SEAVER DOROTHY			
6	SB01300313BBDA1	611320	1494423	H	250.00	47.0	07-01-53	223.00	07-01-53	ROBINSON ROYCE	335	10.00	07- -53
7	SB01300313BACB1	611320	1494415	H	270.00	108.0	04-01-55			EIBEN MERLE W		20.00	04- -55
8	SB01300313BBCC1	611319	1494445	H	250.00	98.0	06-01-63	225.00	06-01-63	SUTTON SR EDWAR		14.00	06- -63
9	SB01300315ABDD2	611318	1494249	H	160.00	22.0	10-13-59	148.00	10-13-59	BARKER THOR MRS	L04B08	8.00	10-13-59
10	SB01300313BBDC1	611317	1494430	P	266.00	144.0	08-01-54	226.00	08-01-54	ANDERSON HAROLD		20.00	08- -54
11	SB01300301CCDA1	611427	1494424	Q	213.00	162.0	08-04-82			ADF&G FT RICHAR	TW A-2	50.00	08-04-82
12	SB01300314BBAB1	611328	1494617	P	200.00	132.0	01-01-57			ANCHORAGE TRAIL			
13	SB01300314BBBC1	611323	1494632	C	189.00	118.0	01-01-60		01-01-60	CARPENTIER LOUN			
14	SB01300314BBCB1	611320	1494632	H	190.00	133.0	04-13-54		04-13-54	PEARSON E		20.00	04-13-54
15	SB01300315ABBB1	611328	1494726	P	160.00	188.0	01-01-52			TRAILS END TRLR			
16	SB01300315ABAB1	611328	1494710	C	166.00	118.0	05-01-60	163.00	05-01-60	YEAGER'S SERVIC		50.00	05- -60
17	SB01300315ABAB2	611328	1494709	H	170.00	31.0	08-19-55	156.00	08-19-55	HEMBREE ADAM	302-C	7.00	08-19-55
18	SB01300315ABAA2	611328	1494704	C	174.00	20.0	01-01-59			WONDER PK HOTEL		20.00	08-17-66
19	SB01300315ABBA2	611327	1494724	P	160.00	91.7	02-22-82	159.50	02-22-82	PIELANOWSKI THO		40.00	02-22-82
20	SB01300315ABAA1	611327	1494702	H	175.00	69.0	08-29-55	175.00	08-29-55	FISHER ROLLA L	304-A	5.00	08-29-55
21	SB01300315ABAA3	611327	1494702	C	175.00	132.0	02-16-66	161.00	02-16-66	WONDER PK MOTEL		45.00	02-16-66
22	SB01300315AABB1	611327	1494658	H	175.00	48.5		167.00	12-10-58	QUEER AL		4.00	12-10-58
23	SB01300315ABBA3	611326	1494718	H	160.00	105.0	01-01-57	159.00	01-01-57	FIREOVED GROVER		40.00	- -57
24	SB01300315ABBA1	611326	1494717	H	160.00	137.0	06-21-58	155.00	06-21-58	HAYWORTH CLAREN		20.00	06-21-58
25	SB01300315ABBA2	611326	1494716	H	160.00	34.0	10-17-59	139.00	10-17-59	ANDERSON ROBERT		4.00	10-17-59

C - Commercial H - Domestic P - Public Supply R - Recreation U - Unused --- Unused
F - Fire N - Industrial Q - Aquaculture T - Institutional Z - Other

WELL REFERENCE ID NUMBER	USGS WELL NUMBER	LATITUDE (DEGREES)	LONGITUDE (DEGREES)	PRIMARY USE OF WATER	ELEVATION OF LAND SURFACE (FEET)	DEPTH OF WELL (FEET)	DATE WELL CONSTRUCTED	ELEVATION OF WATER SURFACE (FEET)	DATE WATER LEVEL MEASURED	OWNER	OTHER IDENTIFIER	DISCHARGE (GPM)	DATE DISCHARGE MEASURED
26	SB01300315ABAC1	611325	1494711	H	170.00	101.0	07-01-52	155.00	07-01-52	GALLEHER RICHAR		15.00	07- -52
27	SB01300315ABAC2	611325	1494711	P	164.00	60.0	01-01-64	124.00	01-01-64	BEST THE APARTM		10.00	09-01-66
28	SB01300315ABBD1	611324	1494717	H	160.00	26.0	06-29-58	146.00	06-29-58	HCABAK FRANK H		5.00	06-29-58
29	SB01300315ABAC3	611323	1494710	H	170.00	63.0	02-16-56	164.00	02-16-56	HALL JAMES	302-A	5.00	02-16-56
30	SB01300315ABDB1	611322	1494709	U	168.00	272.0	01-01-54	147.12	04-15-65	BODENHEIMR HARO			
31	SB01300315ABCA1	611321	1494718	H	160.00	136.0	10-25-58	155.00	10-25-58	HARRIS ALLEN		10.00	10-25-58
32	SB01300315ABDA1	611320	1494704	H	185.00	113.0	01-03-59	175.00	01-03-59	VANGENDERN BERN		10.00	01-03-59
33	SB01300315ABDA2	611320	1494704	H	185.00	92.5	06-13-58	175.00	06-13-58	VANGENDERN BERN		12.00	06-13-58
34	SB01300315ABDD1	611319	1494706	H	175.00	103.0	11-13-58	165.00	11-13-58	GILBERT LEONARD		10.00	11-13-58
35	SB01300315ABDC1	611318	1494710	H	170.00	103.0				EVANS FRANK D		59.00	
36	SB01300315ABDC2	611318	1494709	H	170.00	67.0	04-20-56	158.50	04-20-56	COOK	302-B	10.00	04-20-56
37	SB01300313AACC1	611318	1494319	H	262.00	58.0	08-10-59	247.00	08-10-59	TIESEN CLARENCE	L68	8.00	08-10-59
38	SB01300310CCBC1			H	162.00	50.0		127.00		ADF&G ELMENDORF			
39	SB01300310CDAC1			P	175.00	42.0	01-01-53	148.00		ALLSTATE TRLR CRT		20.00	10-23-67
40	SB01300310CACA1			P	172.00	60.0	03-01-50	141.00		ARTESIAN - TRLR CRT		40.00	03- -50
41	SB01300310CAAC1			H	175.00	51.0		139.00		BOYD BETTY			
42	SB01300310CDCD1			H	158.00	32.0	11-09-54	145.00		EMMETT CC			
43	SB01300310CDDA1			P	160.00	22.5	01-13-59	145.00		ENTZ HORACE L		8.00	01-13-59
44	SB01300310CCCC1			C	161.00	32.0	01-01-46	133.30		GATEWAY SERVICE			
45	SB01300310CBCD1			H	165.00	43.5	05-23-58	130.00		HARRINGTON JESSIE		10.00	05-23-58
46	SB01300310CCDA1			H	170.00	45.0		140.00		HELTON LEONARD		10.00	05- -55
47	SB01300310CAAD1			H	180.00	33.9	08-01-50	148.20		LAMBERT N H		4.00	10-09-50
48	SB01300310CDBC1			H	170.00	37.0	01-01-56	140.00		LEDOUX C E		30.00	01- -56

C - Commercial H - Domestic P - Public Supply R - Recreation U - Unused --- Unused
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WELL REFERENCE ID NUMBER	USGS WELL NUMBER	LATITUDE (DEGREES)	LONGITUDE (DEGREES)	PRIMARY USE OF WATER	ELEVATION OF LAND SURFACE (FEET)	DEPTH OF WELL (FEET)	DATE WELL CONSTRUCTED	ELEVATION OF WATER SURFACE (FEET)	DATE WATER LEVEL MEASURED	OWNER	OTHER IDENTIFIER	DISCHARGE (GPM)	DATE DISCHARGE MEASURED
49	SB01300310BCCC1			P	169.00	67.0	11-01-50	128.98		MTN VIEW ELEM SCH		55.00	11- -50
50	SB01300310CDDA2			H	160.00	26.0	09-26-58	144.00		ROETMAN E G		10.00	09-26-58
51	SB01300310CCDC1			H	165.00	48.0	09-17-54	136.00		SHORE MADISON L			
52	SB01300310CCBD1			H	165.00	33.7	01-01-47	134.80		SPALINGER ED			
53	SB01300310CADB1			H	170.00	50.0	08-01-55	155.00		THOMPSON JOSEPH C		20.00	8- -55
54	SB01300310CADD1			H	175.00	38.0	01-16-56	145.00		UGISS PHILLIP		7.00	01-16-56
55	SB01300310CBBC1			U	169.00	55.0	07-01-54	128.27		FLOWER ST LAUNDRY			
56	SB01300310DCCA1			U	164.34	170.0	07-01-56	169.07		ANCHORAGE MUNICIPL			
57	SB01300312BCAC1			U	232.00		06-06-56	207.13					
58	SB01300312BCCC1			U	224.00	145.0	05-25-56	202.99					
59	SB01300309BCCD1	611355	1495002	U	144.00	336.0	05-01-53	103.79	05-26-53	USGS ANCHORAGE	TW 9		
60	SB01300309DBAA1	611354	1494820	U	109.00	57.0	09-24-69	105.00	09-24-69	USGS ANCHORAGE	GC7		
61	SB01300309CBBC1	611350	1495005	C	91.00	159.0	09-01-55	93.25	09-15-55	PACIFIC AK CONT	1A		
62	SB01300309CABC1	611350	1494937	U	88.00	25.0	08-07-75			ADF&G ELMENDORF	ADFG 10-75		
63	SB01300309DAAC1	611350	1494832	C	164.00	45.0	09-01-47	124.00	10-01-50	H&D MARKET		7.00	09- -47
64	SB01300309DAAD1	611350	1494824	H	165.00	61.0	06-21-58	124.50	06-21-58	RITTER LOUIS		15.00	06-21-58
65	SB01300309CBDA1	611348	1494944	N	78.00	152.0	05-01-53		05-01-53	BIRCH & SONS CO		10.00	05- -53
66	SB01300309DACC1	611346	1494846	H	151.00	60.0				HAMACHER LOUIS	296-A	15.00	
67	SB01300309DBCD1	611345	1494903	U	145.00	11.0	08-06-75	142.63	08-15-75	ADF&G ELMENDORF	ADFG 05-75		
68	SB01300309DBDD1	611344	1494853	U	142.00	44.0	08-06-75	142.00	08-15-75	ADF&G ELMENDORF	ADFG 08-75		
69	SB01300309CADC1	611343	1494926	U	94.00	37.0	10-01-69	87.00	10-01-69	USGS ANCHORAGE	TH 25-69		
70	SB01300309DDBB1	611341	1494846	H	158.00	48.5	05-16-56	120.00	05-16-56	HEAGLE EDWARD			
71	SB01300309DDBB2	611341	1494846	H	162.00	50.0	08-01-50	114.50	10-01-50	WESOLIK PAUL		5.00	08- -50

C - Commercial H - Domestic P - Public Supply R - Recreation U - Unused --- Unused
F - Fire N - Industrial Q - Aquaculture T - Institutional Z - Other

WELL REFERENCE ID NUMBER	USGS WELL NUMBER	LATITUDE (DEGREES)	LONGITUDE (DEGREES)	PRIMARY USE OF WATER	ELEVATION OF LAND SURFACE (FEET)	DEPTH OF WELL (FEET)	DATE WELL CONSTRUCTED	ELEVATION OF WATER SURFACE (FEET)	DATE WATER LEVEL MEASURED	OWNER	OTHER IDENTIFIER	DISCHARGE (GPM)	DATE DISCHARGE MEASURED
72	SB01300309DCBD1	611340	1494907	H	148.00	76.0	04-04-55			JENKINS GEO T			
73	SB01300309DDBA1	611340	1494837	H	158.00	55.0	08-01-54	119.00	08-01-54	KALINOSKI CHRIS	294-B		
74	SB01300309DDBC1	611338	1494845	H	162.00	42.0	08-01-48	123.00	10-01-50	RICE KENNETH	101	7.00	08- -48
75	SB01300309DDAC1	611338	1494831	H	155.00	46.0	08-01-54	118.00	08-01-54	ANDERSON WESLEY	298-B	25.00	08- -54
76	SB01300309DCAC1	611337	1494900	H	155.00	55.0				SUN TOM C		20.00	
77	SB01300309DCBC1	611336	1494910	H	151.00	135.0	11-05-54	109.00	11-05-54	KUNIEAKE SIDNEY			
78	SB01300309DCCB1	611334	1494910	H	157.00	186.0	08-01-56	108.00	08-23-56	SMITH DON	293-A1	12.50	08- -56
79	SB01300309DCCA1	611334	1494904	H	150.00	52.0	02-01-54	140.00	02-01-54	FRANKLIN WILLIA		16.50	02- -54
80	SB01300309DCCA2	611334	1494904	H	145.00	50.0	05-01-55	115.00	05-01-55	WARD JACK		10.00	
81	SB01300309DDCB1	611334	1494846	U	155.00	48.0	05-25-58	119.00	05-25-58	HERRINGTON JESS		10.00	05-25-58
82	SB01300309DDCA1	611334	1494837	H	161.00	44.0	09-01-53	128.50	09-01-53	ALONIS RALPH		13.85	09- -53
83	SB01300309CDCD1	611331	1494932	P	143.00	329.0	01-01-56	98.25	11-08-57	ANCHORAGE MUNIC	MUN 04 PRD	1900.00	
84	SB01300309CDCD2	611331	1494930	U	142.00	370.0	09-01-56	27.72	04-15-65	ANCHORAGE MUNIC	MUN 4 TST		
85	SB01300309DCCC1	611330	1494911	H	153.00	52.0	08-01-54	111.00	08-01-54	HENRY WILLIAM	293-A	30.00	08- -54
86	SB01300309DCDC1	611330	1494858	H	153.00	53.0	10-01-54	118.00	10-01-54	DONOGHUE DANIEL		30.00	10- -54
87	SB01300308DDAA1	611341	1495013	H	77.00	330.0	12-19-58			STEEL FABRICATO	L62		
88	SB01300308DCAC1	611337	1495046	N	69.00	185.0	07-01-54			S MACRI CONSTRC		55.00	07-26-54
89	SB01300308DCDB1	611334	1495045	N	62.00	160.0	04-01-54		04-01-54	AK CONCRETE			
90	SB01300308DCCA1	611333	1495056	H	65.00		12-01-54	66.50	12-09-54	W P FULLER COMP	004	34.00	12-09-54
91	SB01300308CDCB1	611332	1495130	H	52.00	210.0	01-01-52			OAKS CONST CO			
92	SB01300308CDDA1	611332	1495106	C	50.00	151.0	06-01-59	44.00	06-01-59	WESTERN CONSTR		30.00	06- -59
93	SB01300308CCDD1	611331	1495132	C	60.00	200.0				LIQUIFIED GAS-A		10.00	
94	SB01300307BADD1	611411	1495256		20.00	48.0	05-01-64			TEXACO ANCHORAGE	BORING 2		
95	SB01300307BADC1	611410	1495300	U	20.00		05-01-64			TEXACO ANCHORAGE	L7B		
96	SB01300307ACBA1	611404	1495238	U	45.00	295.0	12-13-73	48.70	12-13-73	USGS		10.00	12-13-73
97	SB01400336CACC1			U	260.00	11.0	09-28-70			USGS FT RICH			
98	SB01400324BCDB1	611726	1494428	P	100.00	85.0	04-22-55	96.22	04-22-55	USAF ELMENDORF		24.00	04-22-55

C - Commercial H - Domestic P - Public Supply R - Recreation U - Unused --- Unused
F - Fire N - Industrial Q - Aquaculture T - Institutional Z - Other

APPENDIX D
EXISTING WELL
EVALUATION FORMS

Appendix D

Existing Well Evaluation Forms

EXISTING WELL EVALUATION

DATE 9/25/92 WELL NS3-06

BY TCO, BJT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE __ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

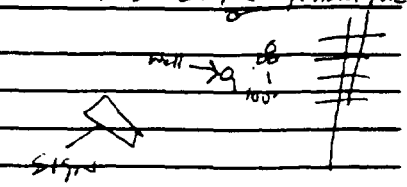
WAS WELL FOUND? (Y) N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

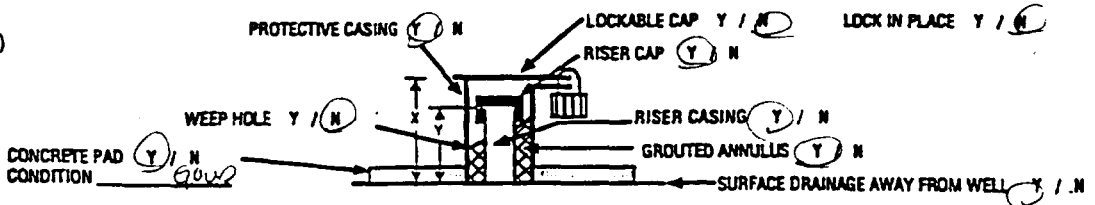
STATUS CORRECT? (Y) N

COMMENTS: WATER IN ANNULAS
Well located 100' NW of single clump of trees near RR, due east of AFB sign



WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH (CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? (Y) / N CONDITION WATER IN WELL

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☐ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☐

PROTECTIVE CASING: SQUARE ☐ ROUND ☒ MATERIAL STEEL COATING _____ NONE ☐

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 0.0 FT. PROTECTIVE CASING: I. D. .65 FT IN. O.D. .82 FT IN.

RISER CASING STICK-UP: Y = -.4 FT. RISER CASING: I. D. .17 FT IN. O.D. .2 FT IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☒ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	OPS		
TIME 10:20	~~27.80~~ DRY ☐ LAYL	NO SEDIMENT ☐	
FROM MEASURE POINT, IF INDICATED =	27.87 FT.	____.____ FT.	47.77 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION =	____.____ FT.	____.____ FT.	____.____ FT.

(OFFICE CALCULATION)

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☒ FIRM ☐ HARD ☐

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED
[ ] = EXISTING DATA FROM DATA BASE - BLANK IF NONE FOUND
( ) = DATA BASE VARIABLE NAME

NOTE: USE MASTER TABLE CODES AS APPROPRIATE

CHECKED BY _____

DATE _____

EXISTING WELL EVALUATION

DATE 9/25/92 WELL ST-41-30

BY TCO, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	_____
TYPE WELL (TYPE __ WEL):	[ ]	_____
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	_____
(NORTHING):	[ ]	_____
(EASTING):	[ ]	_____
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	_____
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	_____
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	_____
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		_____
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		_____
REF. POINT FOR MEASUREMENT (PMEASURE):		_____
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		_____

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

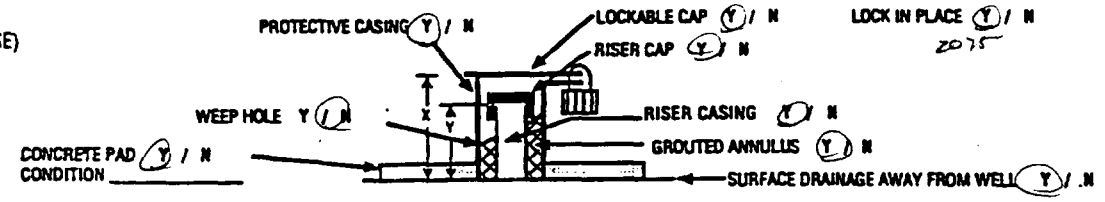
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) N

COMMENTS: IN WOODS X from ST-41-16

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH
(CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / N

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☐

PROTECTIVE CASING: SQUARE ☐ ROUND ☒ MATERIAL STEEL COATING _____ NONE ☐

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 3.44 FT. PROTECTIVE CASING: I.D. .52 IN. O.D. .55 IN.

RISER CASING STICK-UP: Y = 2.94 FT. RISER CASING: I.D. .303 IN. O.D. .38 IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☒ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	ORS PROBE		
TIME	09:40 DRY ☐	NO SEDIMENT ☐	
FROM MEASURE POINT, IF INDICATED =	4.27 FT.	____.____ FT.	19.00 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION =	____.____ FT.	____.____ FT.	____.____ FT.

LNAPL ? NO DNAPL ?

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☒ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED
( ) = EXISTING DATA FROM 'DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES AS APPROPRIATE

CHECKED BY _____

DATE _____

EXISTING WELL EVALUATION

DATE 6/5/92 WELL GW-1A

BY TCO, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	_____
TYPE WELL (TYPE __ WEL):	[ ]	_____
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	_____
(NORTHING):	[ ]	_____
(EASTING):	[ ]	_____
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	_____
TOP OF CASING ELEVATION, FT. (TOC):	[217.91]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	_____
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[215.40]	_____
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		_____
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		_____
REF. POINT FOR MEASUREMENT (PMEASURE):		_____
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		_____

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

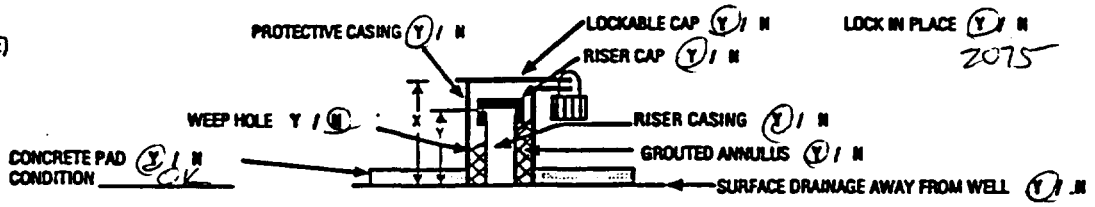
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: _____

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH (CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☐ ROUND ☒ MATERIAL _____ COATING _____ NONE ☒

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 2.52 FT.

RISER CASING STICK-UP: Y = 2.97 FT.

PROTECTIVE CASING: I.D. .15 FT IN. O.D. .55 FT IN.

RISER CASING: I.D. .17 (2 IN SCH 40 PVC) IN. O.D. .12 FT IN. FT

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☒ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	ORS (PROBE NOT WORKING)		
TIME	09:15 DRY ☒ (ANAPL NO)	NO SEDIMENT ☐ (ANAPL NO)	
FROM MEASURE POINT, IF INDICATED =	42.51 FT.	___.___ FT.	51.54 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	___.___ FT.	___.___ FT.	___.___ FT.
FROM GROUND SURFACE =	___.___ FT.	___.___ FT.	___.___ FT.
ELEVATION =	___.___ FT.	___.___ FT.	___.___ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☒ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

DATE _____

EXISTING WELL EVALUATION

DATE 6/5/92 WELL GW-1B

BY TCO, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	_____
TYPE WELL (TYPE __ WEL):	[ ]	_____
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	_____
(NORTHING):	[ ]	_____
(EASTING):	[ ]	_____
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	_____
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	_____
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	_____
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		_____
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		_____
REF. POINT FOR MEASUREMENT (PMEASURE):		_____
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		_____

WAS WELL FOUND? Y / N

IS WELL IDENTIFIED SAME AS DATA? Y / N

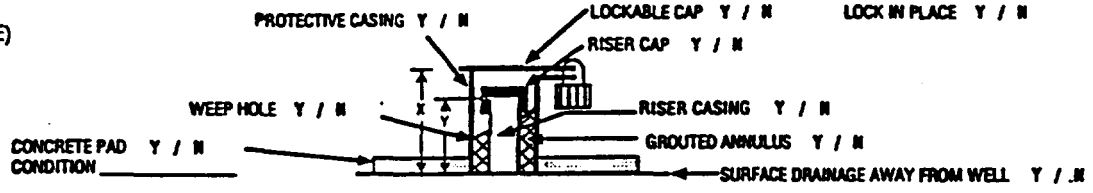
DOES LOCATION VISUALLY CONFORM TO DATA? Y / N

STATUS CORRECT? Y / N

COMMENTS: WELL ABANDONED BY JACOBS ENGINEERING IN MARCH 1992

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH
(CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / N NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / N CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / N MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / N

RISER CASING MATERIAL: SS ☐ PVC ☐ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☐

PROTECTIVE CASING: SQUARE ☐ ROUND ☐ MATERIAL _____ COATING _____ NONE ☐

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = _____ . _____ FT. PROTECTIVE CASING: I. D. _____ IN. O.D. _____ IN.

RISER CASING STICK-UP: Y = _____ . _____ FT. RISER CASING: I. D. _____ IN. O.D. _____ IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☐ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	_____		
TIME / DRY	_____ : _____ DRY ☐	NO SEDIMENT ☐	
FROM MEASURE POINT, IF INDICATED =	_____ . _____ FT.	_____ . _____ FT.	_____ . _____ FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	_____ . _____ FT.	_____ . _____ FT.	_____ . _____ FT.
FROM GROUND SURFACE	_____ FT.	_____ FT.	_____ FT.
ELEVATION	_____ FT.	_____ FT.	_____ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☐ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED
( ) = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

EXISTING WELL EVALUATION

DATE 6/3/12 WELL GW-1C

BY TCO BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE __ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[211 AS]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[2090]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

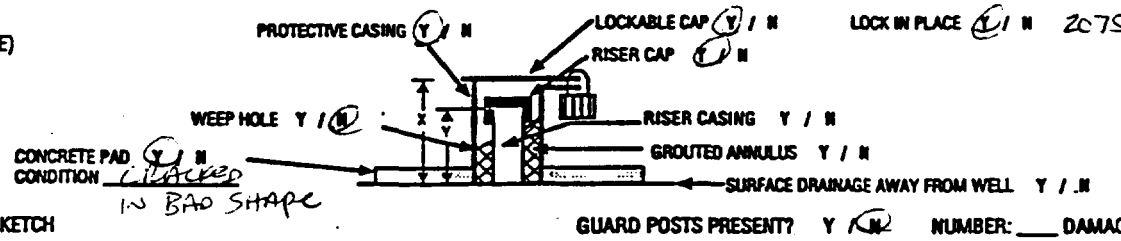
COMMENTS: CRACKED CEMENT SURFACE SEAL

METHANE GAS PROBE

ORIGINALLY BORING #4

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH
(CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☐ ROUND ☒ MATERIAL _____ COATING _____ NONE ☐

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 3.0 FT. PROTECTIVE CASING: I.D. 5.1 IN. O.D. .55 IN. FT

RISER CASING STICK-UP: Y = 2.32 FT. RISER CASING: I.D. 2" SCHEDULE 40 PVC .17 IN. O.D. .2 IN. FT

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☒ GROUND SURFACE ☐ NOT INDICATED ☐ FT

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	OBS PROBE FLOATING	SINKING	
TIME	10:52 DRY ☐	NO SEDIMENT ☒	
FROM MEASURE POINT, IF INDICATED =	41.45 FT. ∅	____.____ FT. ∅	51.40 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION =	____.____ FT.	____.____ FT.	____.____ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☒ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED
[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES AS APPROPRIATE

CHECKED BY _____ DATE _____

EXISTING WELL EVALUATION

DATE 10/5/92 WELL GW-2A

BY TCO, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE __ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[?]	
MEASURE POINT ELEVATION, FT. (MP):	[222.19]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[219 ±]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

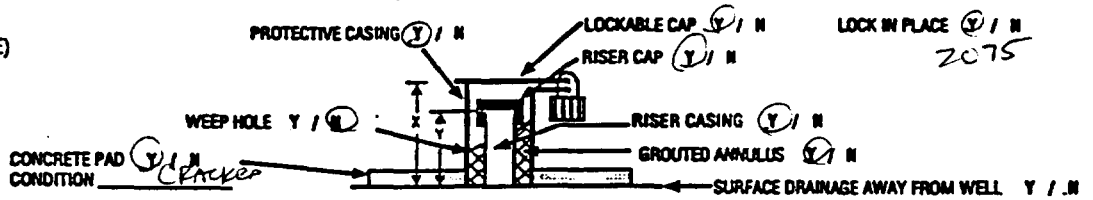
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: CONCRETE PAD CRACKED

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH
(CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☐ ROUND ☒ MATERIAL _____ COATING _____ NONE ☒

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 2.15 FT. PROTECTIVE CASING: I.D. 1.50 FT IN. O.D. .55 FT IN.

RISER CASING STICK-UP: Y = 2.05 FT. RISER CASING: I.D. 2" SCH 40 PVC IN. O.D. _____ IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☒ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	OPS		
TIME	9:03 DRY ☐	NO SEDIMENT ☐	
FROM MEASURE POINT, IF INDICATED =	43.02 FT. LNAPL	.___ FT.	52.09 FT. DNAPL
IF MP NOT INDICATED THEN FROM TOP OF RISER =	.___ FT.	.___ FT.	.___ FT.
FROM GROUND SURFACE =	.___ FT.	.___ FT.	.___ FT.
ELEVATION =	.___ FT.	.___ FT.	.___ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☐ FIRM ☒ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED
[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

EXISTING WELL EVALUATION

DATE 6/3/92 WELL MW-2B

BY TCO BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[gw-2B]	
TYPE WELL (TYPE __ WEL):	[MNW]	
P1 WELL NAME (WELLNUM):	[—]	
LOCATION (GRID):	[—]	
(NORTHING):	[—]	
(EASTING):	[—]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[—]	
TOP OF CASING ELEVATION, FT. (TOC):	[1985]	
MEASURE POINT ELEVATION, FT. (MP):	[—]	
MEASURE POINT CORRECTION, FT. (MPC):	[—]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[201.23]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

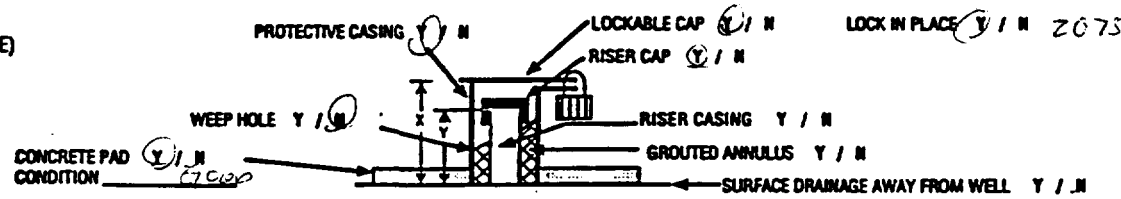
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: METHANE PROBE NEARBY OLD WELL #3

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH (CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED? Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☐ ROUND ☒ MATERIAL _____ COATING _____ NONE ☒

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 2.75 FT. PROTECTIVE CASING: I.D. 5" IN. O.D. 5.5 IN.

RISER CASING STICK-UP: Y = 2.3 FT. RISER CASING: I.D. 2" (4" THROUGH) IN. O.D. .2 IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☒ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	OBS PROBE FLOATING		SINKERS
TIME	11:04 DRY ☐	NO SEDIMENT ☐	
FROM MEASURE POINT, IF INDICATED =	32.96 FT.	____.____ FT.	44.15 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION =	____.____ FT.	____.____ FT.	____.____ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☒ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

( ) = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

DATE _____

EXISTING WELL EVALUATION

DATE 6/3/92 WELL GW-2C

BY TCC/BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE __ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[19712]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[1959]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? Y / (N)

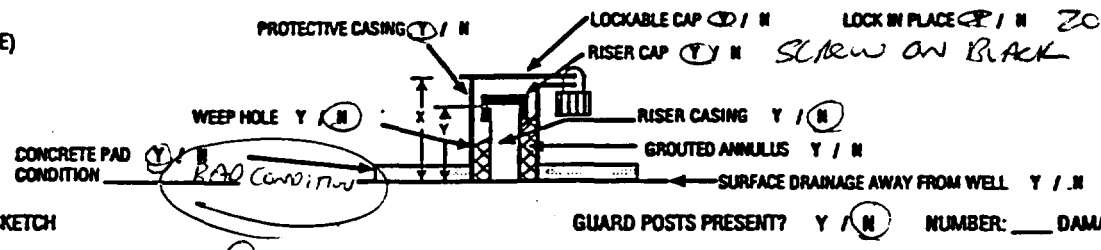
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: _____

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH
(CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / N

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☐ ROUND ☒ MATERIAL _____ COATING _____ NONE ☒

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 3.04 FT. PROTECTIVE CASING: I.D. .51 IN. O.D. .55 IN.

RISER CASING STICK-UP: Y = 2.95 FT. RISER CASING: I.D. 2" Sch 40 PVC IN. O.D. _____ IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☒ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: TOP OF PVC FLUSH LOCK CAP

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	ORS Probe		Sinkers
TIME / DRY	11:57 DRY ☐	FLOATING NO SEDIMENT ☐	
FROM MEASURE POINT, IF INDICATED =	31.66 FT.	~ _____ FT.	— 39.95 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	_____ FT.	_____ FT.	_____ FT.
FROM GROUND SURFACE =	_____ FT.	_____ FT.	_____ FT.
ELEVATION =	_____ FT.	_____ FT.	_____ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☒ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

[ ] = EXISTING DATA FROM* *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

EXISTING WELL EVALUATION

DATE 6/3/92 10:02 WELL W-1

BY TIM O'CONNOR · BOB MCGRATH SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[W-1]	
TYPE WELL (TYPE __ WEL):	[MNW]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

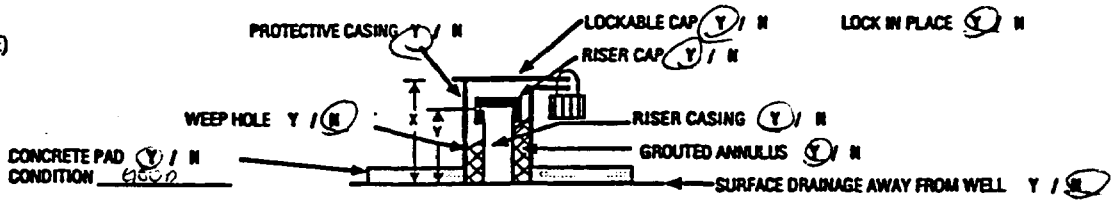
STATUS CORRECT? Y / N

COMMENTS: WELL HAS SIGN, BUT INFORMATION IS FADED BEYOND READABLE

LOCK # 2075

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH (CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☐ ROUND ☒ MATERIAL _____ COATING _____ NONE ☐

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 1.16 FT. PROTECTIVE CASING: I. D. 6 IN. O.D. 6.5 IN.

RISER CASING STICK-UP: Y = 1.13 FT. RISER CASING: I. D. 2 7/8 IN. O.D. 2 3/8 IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☒ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	OBS FROM ~~TAPE~~ FLOATERS	SINKERS	
TIME	10:06 DRY ☐	NO SEDIMENT ☒	
FROM MEASURE POINT, IF INDICATED =	39.21 FT.	.___ FT.	59.91 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	.___ FT.	.___ FT.	.___ FT.
FROM GROUND SURFACE =	.___ FT.	.___ FT.	.___ FT.
ELEVATION =	.___ FT.	.___ FT.	.___ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☒ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

* OPTIONAL BASED ON RI/FS NEED

[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

( ) = DATA BASE VARIABLE NAME

NOTE: USE MASTER TABLE CODES AS APPROPRIATE

CHECKED BY _____

DATE _____

EXISTING WELL EVALUATION

DATE 6/3/92 WELL MW-2

BY TCC, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE__WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND_ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP_ELV):		
TOP OF RISER CASING ELV., FT. (TOC_ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT_ELV):		

WAS WELL FOUND? Y / N

IS WELL IDENTIFIED SAME AS DATA? Y / N

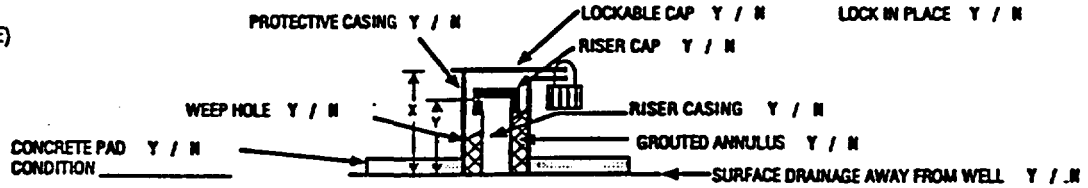
DOES LOCATION VISUALLY CONFORM TO DATA? Y / N

STATUS CORRECT? Y / N

COMMENTS: WELL ABANDONED BY JACOBS ENGINEERING IN MARCH, 1992

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH
(CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / N NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / N CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / N MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / N

RISER CASING MATERIAL: SS☐ PVC☐ FIBERGLASS☐ STEEL☐ CMP☐ OTHER☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE☐

PROTECTIVE CASING: SQUARE☐ ROUND☐ MATERIAL _____ COATING _____ NONE☐

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = _____._____ FT. PROTECTIVE CASING: I. D. _____ IN. O.D. _____ IN.

RISER CASING STICK-UP: Y = _____._____ FT. RISER CASING: I. D. _____ IN. O.D. _____ IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING☐ RISER CASING☐ GROUND SURFACE☐ NOT INDICATED☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	_____		
TIME / DRY	_____:_____ DRY☐	NO SEDIMENT☐	
FROM MEASURE POINT, IF INDICATED =	_____._____ FT.	_____._____ FT.	_____._____ FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	_____._____ FT.	_____._____ FT.	_____._____ FT.
FROM GROUND SURFACE =	_____ FT.	_____ FT.	_____ FT.
ELEVATION =	_____._____ FT.	_____._____ FT.	_____._____ FT.

BOTTOM WELL CONDITIONS: SOFT☐ MOD. FIRM☐ FIRM☐ HARD☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED
[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

EXISTING WELL EVALUATION

DATE 6/3/12 WELL W-5

BY TCG, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE __ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[207.12]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? Y / (N)

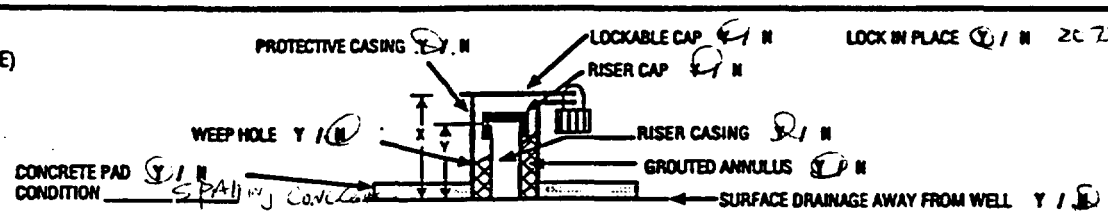
DOES LOCATION VISUALLY CONFORM TO DATA? Y / (N)

STATUS CORRECT? Y / (N)

COMMENTS: _____

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH (CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / N

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☐ ROUND ☒ MATERIAL _____ COATING _____ NONE ☒

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 1.5 FT. PROTECTIVE CASING: I.D. .51 IN. O.D. .55 IN.

RISER CASING STICK-UP: Y = 1.1 FT. RISER CASING: I.D. .17 IN. O.D. .2 IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☒ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	OBS Probe (FLOATING)		
TIME	11:30 DRY ☐	NO SEDIMENT ☐	(SINKS)
FROM MEASURE POINT, IF INDICATED =	32.80 FT.	____.____ FT.	50.32 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION =	____.____ FT.	____.____ FT.	____.____ FT.

(OFFICE CALCULATION)

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☒ FIRM ☐ HARD ☐

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

EXISTING WELL EVALUATION

DATE 6/3/92 WELL W-6

BY TCO : BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE __ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? Y / (N)

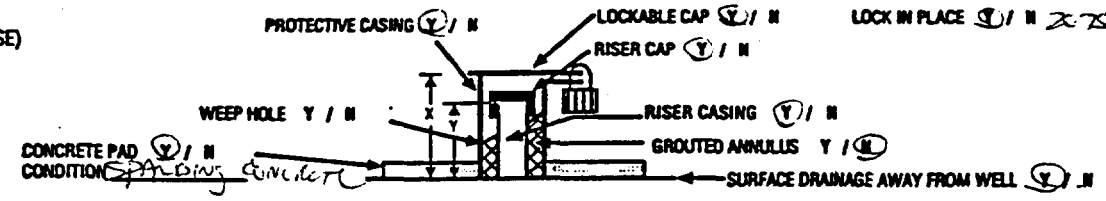
DOES LOCATION VISUALLY CONFORM TO DATA? Y / (N)

STATUS CORRECT? Y / (N)

COMMENTS: _____

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH
(CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☐ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☐

PROTECTIVE CASING: SQUARE ☐ ROUND ☐ MATERIAL _____ COATING _____ NONE ☐

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 1.3 FT. PROTECTIVE CASING: I.D. .51 IN. O.D. .55 IN. FT

RISER CASING STICK-UP: Y = 1.1 FT. RISER CASING: I.D. 2 Sch 40 PVC IN. O.D. 2 IN. FT

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☒ GROUND SURFACE ☐ FT NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	ORS		
TIME / DRY	11:19 ☐	NO SEDIMENT ☐	
FROM MEASURE POINT, IF INDICATED =	32.08 FT.	____.____ FT.	56.55 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION =	____.____ FT.	____.____ FT.	____.____ FT.

FLOATING / SINKERS

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☒ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED
[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

EXISTING WELL EVALUATION

DATE 10/2/11 WELL [illegible]

BY TCD, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE__WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? Y / N

IS WELL IDENTIFIED SAME AS DATA? Y / N

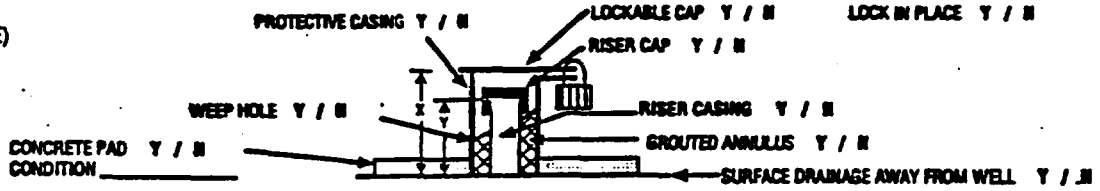
DOES LOCATION VISUALLY CONFORM TO DATA? Y / N

STATUS CORRECT? Y / N

COMMENTS: WELL NOT Found

WELL ACCESS WELL NOT ACCESSIBLE [X] REASON: NOT Found

WELL FINISH (CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / N NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / N CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / N MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / N

RISER CASING MATERIAL: SS ☐ PVC ☐ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☐

PROTECTIVE CASING: SQUARE ☐ ROUND ☐ MATERIAL _____ COATING _____ NONE ☐

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = _____.____ FT. PROTECTIVE CASING: I.D. _____ IN. O.D. _____ IN.

RISER CASING STICK-UP: Y = _____.____ FT. RISER CASING: I.D. _____ IN. O.D. _____ IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☐ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	_____		
TIME / DRY	____:____ DRY ☐	NO SEDIMENT ☐	
FROM MEASURE POINT, IF INDICATED =	____.____ FT.	____.____ FT.	____.____ FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION =	____.____ FT.	____.____ FT.	____.____ FT.

(OFFICE CALCULATION)

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☐ FIRM ☐ HARD ☐

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

( ) = DATA BASE VARIABLE NAME

NOTE: USE MASTER TABLE CODES AS APPROPRIATE

CHECKED BY _____

DATE _____

8214

EXISTING WELL EVALUATION

DATE 6/3/92 WELL D13-02

BY TCO, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[D13-02]	_____
TYPE WELL (TYPE__WEL):	[MNW]	_____
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[-]	_____
(NORTHING):	[-]	_____
(EASTING):	[-]	_____
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[( ]	_____
TOP OF CASING ELEVATION, FT. (TOC):	[-]	
MEASURE POINT ELEVATION, FT. (MP):	[-]	_____
MEASURE POINT CORRECTION, FT. (MPC):	[-210.96]	SEE BELOW
GROUND ELEVATION, FT. (GRND_ELV):	[-]	_____
TOP OF PROT. CASING ELV., FT. (TOP_ELV):	-	_____
TOP OF RISER CASING ELV., FT. (TOC_ELV):	-	_____
REF. POINT FOR MEASUREMENT (PMEASURE):	-	_____
MEASURE POINT ELEVATION, FT. (MPT_ELV):	-	_____

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

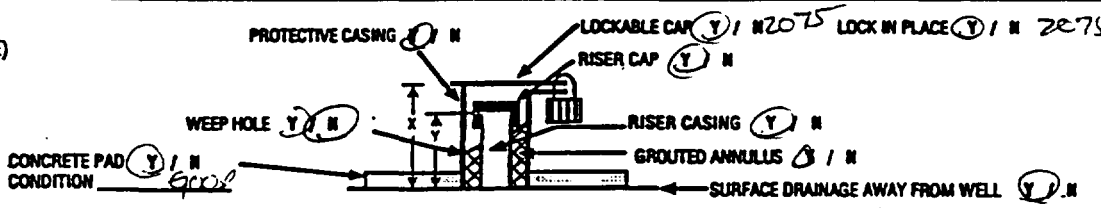
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: RISER SET LOW IN PROTECTIVE CASING

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH
(CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? (Y) / N

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☒ ROUND ☐ MATERIAL _____ COATING _____ NONE ☐

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 3.71 FT. FROM GS PROTECTIVE CASING: I.D. 4.47 IN. (2" SCHEDULE 40 PVC) O.D. .5 FT IN.

RISER CASING STICK-UP: Y = 2.101 FT. FROM GS RISER CASING: I.D. 1.16 IN. FT O.D. 2.0 IN. FT

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☒ RISER CASING ☐ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	OBS PROBE	FLOATING	SINKING
TIME	10 : 20 DRY ☐	NO SEDIMENT ☐	48.07 6/3/92
FROM MEASURE POINT, IF INDICATED =	40.96 FT.	___.___ FT.	49.0 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	___.___ FT.	___.___ FT.	___.___ FT.
FROM GROUND SURFACE =	___.___ FT.	___.___ FT.	___.___ FT.
ELEVATION =	___.___ FT.	___.___ FT.	___.___ FT.

(OFFICE CALCULATION)

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☐ FIRM ☐ HARD ☒

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED
[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

EXISTING WELL EVALUATION

DATE 2/15/12 WELL [illegible]

BY TTO, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	_____
TYPE WELL (TYPE__WEL):	[ ]	_____
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	_____
(NORTHING):	[ ]	_____
(EASTING):	[ ]	_____
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	_____
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	_____
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND_ELV):	[ ]	_____
TOP OF PROT. CASING ELV., FT. (TOP_ELV):		_____
TOP OF RISER CASING ELV., FT. (TOC_ELV):		_____
REF. POINT FOR MEASUREMENT (PMEASURE):		_____
MEASURE POINT ELEVATION, FT. (MPT_ELV):		_____

WAS WELL FOUND? Y / N

IS WELL IDENTIFIED SAME AS DATA? Y / N

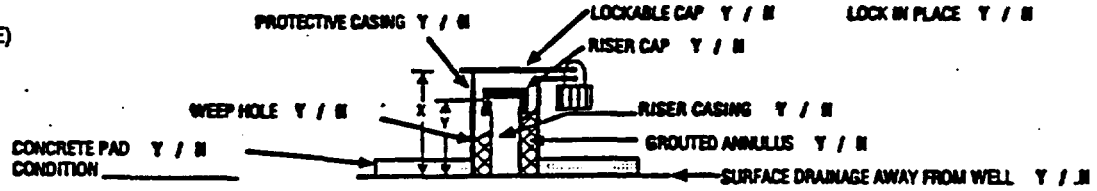
DOES LOCATION VISUALLY CONFORM TO DATA? Y / N

STATUS CORRECT? Y / N

COMMENTS: ABANDONED BY JACOBS ENGINEERING, MARCH 1992

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH
(CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / N NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / N CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / N MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / N

RISER CASING MATERIAL: SS ☐ PVC ☐ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☐

PROTECTIVE CASING: SQUARE ☐ ROUND ☐ MATERIAL _____ COATING _____ NONE ☐

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = _____._____ FT. PROTECTIVE CASING: I.D. _____ IN. O.D. _____ IN.

RISER CASING STICK-UP: Y = _____._____ FT. RISER CASING: I.D. _____ IN. O.D. _____ IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☐ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	_____		
TIME / DRY / NO SEDIMENT	___:___ DRY ☐	NO SEDIMENT ☐	
FROM MEASURE POINT, IF INDICATED =	___._____ FT.	___._____ FT.	___._____ FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	___._____ FT.	___._____ FT.	___._____ FT.
FROM GROUND SURFACE =	___._____ FT.	___._____ FT.	___._____ FT.
ELEVATION =	___._____ FT.	___._____ FT.	___._____ FT. (OFFICE CALCULATION)

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☐ FIRM ☐ HARD ☐

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED
[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND
( ) = DATA BASE VARIABLE NAME

NOTE: USE MASTER TABLE CODES AS APPROPRIATE

CHECKED BY _____

DATE _____

EXISTING WELL EVALUATION

DATE 6/3/92 WELL NS2-01

BY TCO SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[NS2-01]	_____
TYPE WELL (TYPE __ WEL):	[MNW]	_____
PI WELL NAME (WELLNUM):	[106]	
LOCATION (GRID):	[ ]	_____
(NORTHING):	[ ]	_____
(EASTING):	[ ]	_____
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[1]	_____
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[-211.39]	_____
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	_____
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		_____
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		_____
REF. POINT FOR MEASUREMENT (PMEASURE):		_____
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		_____

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

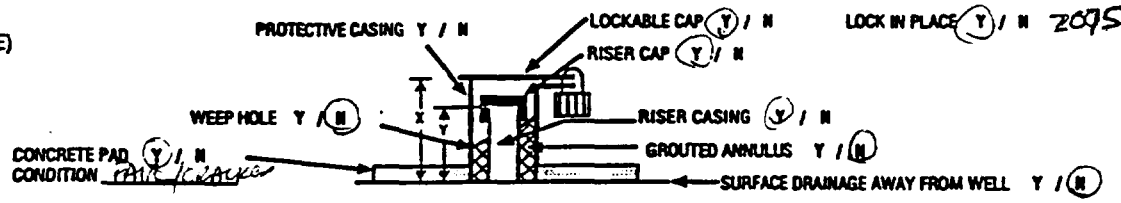
DOES LOCATION VISUALLY CONFORM TO DATA? Y / N

STATUS CORRECT? (Y) / N

COMMENTS: SEVERAL CRACKS IN SURFACE CEMENT SEAL. WELL IS PUT IN AT ANGLE, PROBE GOES DOWN OK

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH
(CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / N NA CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☐

PROTECTIVE CASING: SQUARE ☒ ROUND ☐ MATERIAL STEEL COATING _____ NONE ☐

COMMENTS: 6" STEEL (1/8")

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 2.37 FT. PAD THICK .2 PROTECTIVE CASING: I.D. .47 FT IN. O.D. .5 FT IN.

RISER CASING STICK-UP: Y = 2.45 FT. AGS RISER CASING: I.D. 12 IN. FT O.D. .2 IN. FT

REMARKS

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☒ RISER CASING ☐ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: HIGH SIDE OF PVC, SW SIDE

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	ORS		
TIME	10:37 DRY ☐	NO SEDIMENT ☐	
FROM MEASURE POINT, IF INDICATED =	39.47 FT. 0950 ϕ	____.____ FT. ϕ	54.30 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION =	____.____ FT.	____.____ FT.	____.____ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☐ FIRM ☒ HARD ☐ (OFFICE CALCULATION)

COMMENTS: NEED TO GET SEDIMENT DEPTH

*OPTIONAL BASED ON RI/FS NEED

[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

EXISTING WELL EVALUATION

DATE 6/3/92 WELL NS2-02

BY TCO, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	_____
TYPE WELL (TYPE __ WEL):	[ ]	_____
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	_____
(NORTHING):	[ ]	_____
(EASTING):	[ ]	_____
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	_____
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[210.70]	_____
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	_____
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		_____
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		_____
REF. POINT FOR MEASUREMENT (PMEASURE):		_____
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		_____

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

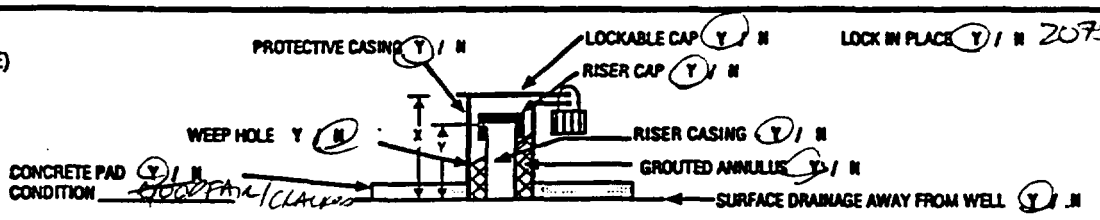
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: NEED well log OK TCO 6/3/92

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH
(CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / N MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / N

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☒ ROUND ☐ MATERIAL _____ COATING _____ NONE ☒

COMMENTS: Rotary New

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 2.4 FT. PROTECTIVE CASING: I.D. 4.7 (2" SCHEDULE 40) IN. O.D. 5 IN.

RISER CASING STICK-UP: Y = 1.95 FT. RISER CASING: I.D. 1.6 IN. O.D. 2.0 IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☒ RISER CASING ☐ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	CBS Probe		
TIME	10:37 DRY ☐ (FLOATS 40.55)	NO SEDIMENT ☒	(SINKS) 56.81 TOC
FROM MEASURE POINT, IF INDICATED =	40.555 FT.	____.____ FT.	~~57.120~~ FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION =	____.____ FT.	____.____ FT.	____.____ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☐ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED
[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES AS APPROPRIATE

CHECKED BY _____ DATE _____

EXISTING WELL EVALUATION

DATE 6/5/92 WELL MW-7

BY TCC, BT SERIAL NO.

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE __ WEL):	[ ]	
P1 WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[218.09]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

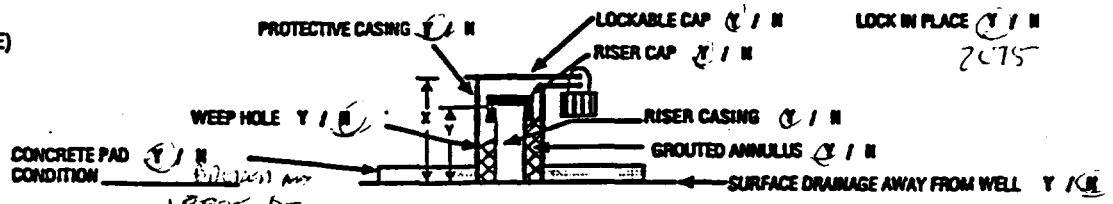
DOES LOCATION VISUALLY CONFORM TO DATA? Y / (N)

STATUS CORRECT? (Y) / N

COMMENTS: THIS WELL IS IN BAD CONDITION, LOOKS LIKE IT MAY HAVE SUNKEN ~ 1 FOOT, PVC DEEP INSIDE CASING. NOT FLUSH. NO CEMENT SEAL AT LAST

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON:

WELL FINISH (CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH 1 FOOT BELOW GROUND SURFACE GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE:

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC (X) FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): NONE (X)

PROTECTIVE CASING: SQUARE ☐ ROUND (X) MATERIAL STEEL COATING NONE (X)

COMMENTS:

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 1.35 FT. PROTECTIVE CASING: I.D. .50 FT IN. O.D. .55 FT IN.

RISER CASING STICK-UP: Y = -0.15 FT. RISER CASING: I.D. .16 FT IN. O.D. .2 FT IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING (X) GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS:

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	GIS		
TIME	16:55 DRY ☐	NO SEDIMENT ☐	
FROM MEASURE POINT, IF INDICATED =	2.51 FT. 2.50 LNAPL	___.___ FT. DNAPL	20.38 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	___.___ FT.	___.___ FT.	___.___ FT.
FROM GROUND SURFACE =	___.___ FT.	___.___ FT.	___.___ FT.
ELEVATION =	___.___ FT.	___.___ FT.	___.___ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☐ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS:

*OPTIONAL BASED ON RI/FS NEED

[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY

EXISTING WELL EVALUATION

DATE 6/5/92 WELL W-8

BY TCO, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE __ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[215.94]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

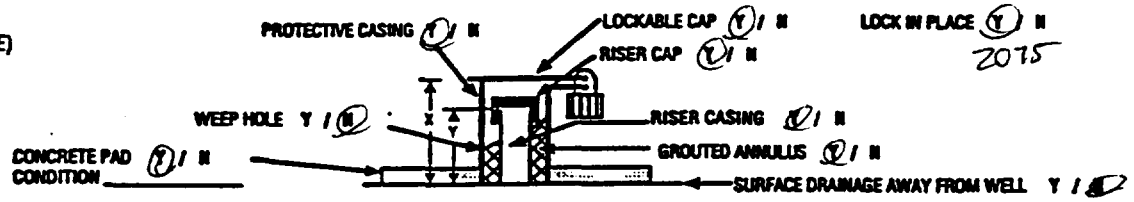
DOES LOCATION VISUALLY CONFORM TO DATA? Y / (N)

STATUS CORRECT? (Y) / N

COMMENTS: PROTECTIVE CASING LOOSE!!

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH (CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☐ ROUND ☒ MATERIAL STEEL COATING PAINT NONE ☐

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 1.5 FT. PROTECTIVE CASING: I.D. .50 FT IN. O.D. .55 FT IN.

RISER CASING STICK-UP: Y = 1.1 FT. RISER CASING: I.D. .16 FT IN. O.D. .2 FT IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☒ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	GRS		
TIME	10:40 DRY ☐	NO SEDIMENT ☐	
FROM MEASURE POINT, IF INDICATED =	4.03 FT.	____.____ FT.	26.03 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION =	____.____ FT.	____.____ FT.	____.____ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☐ FIRM ☒ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

EXISTING WELL EVALUATION

DATE 6/10/92 WELL TCO 01-17 SP5/SA-01

BY TCO, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE __ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

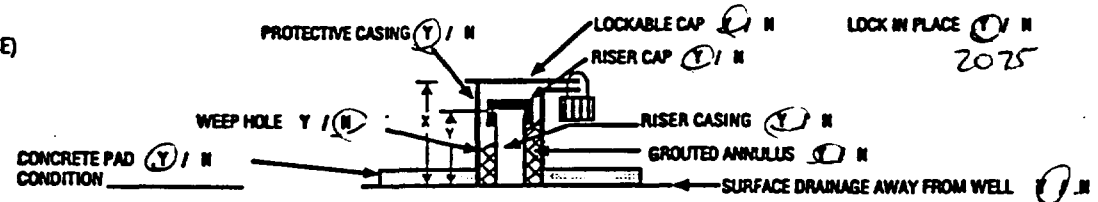
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) N

COMMENTS: FROST HEAVE
ELEVATION MAY BE OFF

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH
(CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☒ ROUND ☐ MATERIAL STEEL COATING _____ NONE ☒

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 2.52 FT. PROTECTIVE CASING: I. D. .97 IN/FT O.D. .5 IN/FT

RISER CASING STICK-UP: Y = 1.50 FT. RISER CASING: I. D. .18 IN/FT O.D. .12 IN/FT

2.52 − 1.02 = 1.50

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☒ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	OBS		
TIME	07 : 48 DRY ☐	NO SEDIMENT ☐	
	SHEEN	DNAPL	
FROM MEASURE POINT, IF INDICATED =	39.98 FT.	____.____ FT.	48.80 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION =	____.____ FT.	____.____ FT.	____.____ FT.

(OFFICE CALCULATION)

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☒ FIRM ☐ HARD ☐

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED
[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

EXISTING WELL EVALUATION

DATE 6/10/92 WELL ~~SP5/SA~~ 02

BY TO, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	_____
TYPE WELL (TYPE __ WEL):	[ ]	_____
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	_____
(NORTHING):	[ ]	_____
(EASTING):	[ ]	_____
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	_____
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	_____
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	_____
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		_____
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		_____
REF. POINT FOR MEASUREMENT (PMEASURE):		_____
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		_____

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

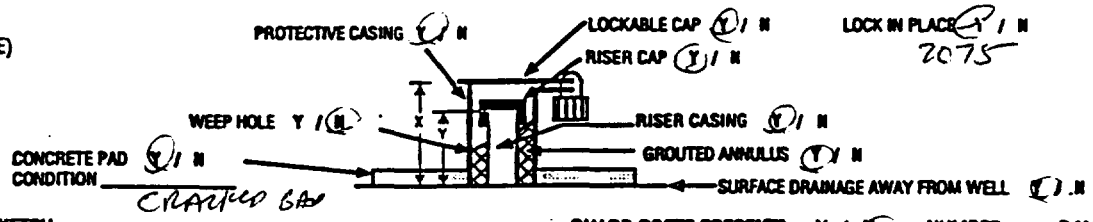
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: CRACKED CONCRETE PAD

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH
(CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☒ ROUND ☐ MATERIAL STEEL COATING _____ NONE ☒

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 2.27 FT. PROTECTIVE CASING: I.D. .47 FT IN. O.D. .5 FT IN.

RISER CASING STICK-UP: Y = 1.97 FT. RISER CASING: I.D. .16 IN FT O.D. .2 IN FT

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☒ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	OPS		
TIME / DRY ☐ / NO SEDIMENT ☐	7:52 / LNAPL	DNAPL	
FROM MEASURE POINT, IF INDICATED =	18.48 FT.	_____ FT.	37.10 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	_____ FT.	_____ FT.	_____ FT.
FROM GROUND SURFACE =	_____ FT.	_____ FT.	_____ FT.
ELEVATION =	_____ FT.	_____ FT.	_____ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☐ FIRM ☒ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED
[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES AS APPROPRIATE

CHECKED BY _____

DATE

EXISTING WELL EVALUATION

DATE 6/10/92 WELL SPSEA-06

BY TCO, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE __ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

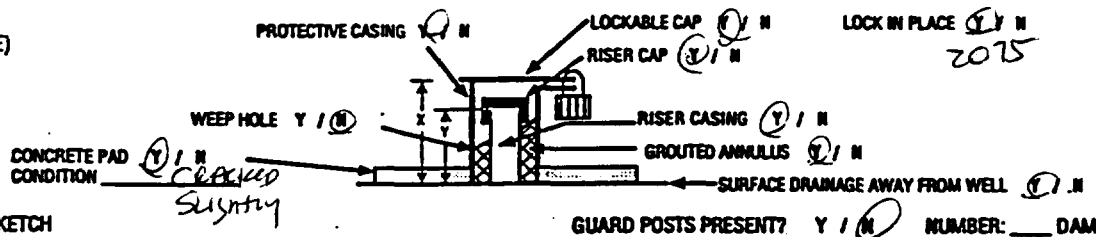
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: good

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH
(CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / N CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / N MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / N

RISER CASING MATERIAL: SS ☐ PVC ☐ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☐

PROTECTIVE CASING: SQUARE ☐ ROUND ☐ MATERIAL _____ COATING _____ NONE ☐

COMMENTS: _____

PHYSICAL MEASUREMENTS

2.72
23
2.49

PROTECTIVE CASING STICK-UP: X = 2.72 FT. PROTECTIVE CASING: I.D. .47 IN. FT O.D. .5 IN. FT

RISER CASING STICK-UP: Y = 2.49 FT. RISER CASING: I.D. .18 IN. FT O.D. .2 IN. FT

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING (X) GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	ORS		
TIME	7 : 44 DRY ☐ LNAPL	NO SEDIMENT ☐ DNAPL	
FROM MEASURE POINT, IF INDICATED =	33.51 FT.	____.____ FT.	50.20 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION =	____.____ FT.	____.____ FT.	____.____ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☐ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

* OPTIONAL BASED ON RI/FS NEED
[ ] = EXISTING DATA FROM * DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

EXISTING WELL EVALUATION

DATE 6/10/92 WELL SPS/SA-07

BY TCO, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE __ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

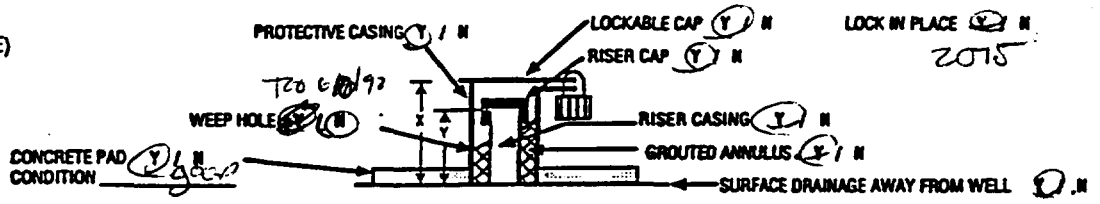
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: FROST HEAVE
LOOKS LIKE ELEVATION MAY HAVE BEEN AFFECTED

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH
(CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? (Y) / N NUMBER: 3 DAMAGED: Y / (N)

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☒ ROUND ☐ MATERIAL STEEL COATING _____ NONE ☐

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 3.57 FT. PROTECTIVE CASING: I.D. .97 IN. FT O.D. .50 IN. FT

RISER CASING STICK-UP: Y = 2.86 FT. RISER CASING: I.D. .18 IN. FT O.D. .20 IN. FT

B.S.? 3.57 / 2.86

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☒ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	ORS		
TIME	7:38 DRY ☐ LNAPL	NO SEDIMENT ☐ DNAPL	
FROM MEASURE POINT, IF INDICATED =	33.26 FT.	____.____ FT.	57.75 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION =	____.____ FT.	____.____ FT.	____.____ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☒ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED
{ } = EXISTING DATA FROM* *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES AS APPROPRIATE

CHECKED BY _____ DATE _____

EXISTING WELL EVALUATION

DATE 6/10/92 WELL SPS/SA-08

BY TC, JST SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE __ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

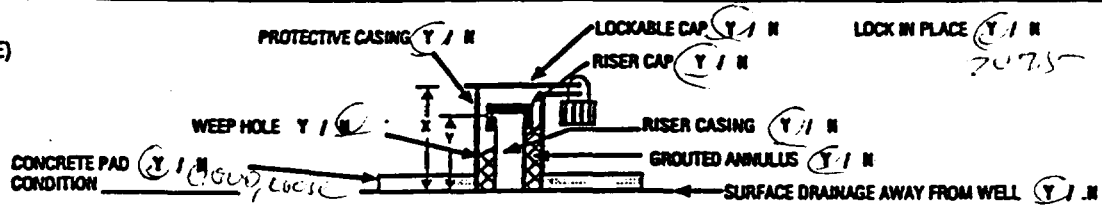
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: FROST HEAVE, LIDS

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH
(CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y /

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☐ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☒ ROUND ☐ MATERIAL STEEL COATING _____ NONE ☒

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 2.70 FT. PROTECTIVE CASING: I.D. .47 FT IN. O.D. .5 FT IN.

RISER CASING STICK-UP: Y = 2.40 FT. RISER CASING: I.D. .18 FT IN. O.D. .20 FT IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☒ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	CRS		
TIME	14:38	DRY ☐ SAMPLE NO SEDIMENT ☐ SAMPLE	
FROM MEASURE POINT, IF INDICATED =	14.31 FT.	____.____ FT.	27.97 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION =	____.____ FT.	____.____ FT.	____.____ FT.

(OFFICE CALCULATION)

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☒ FIRM ☐ HARD ☐

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

EXISTING WELL EVALUATION

DATE 6/10/92 WELL SIS/SA-10

BY TCO, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[:]	
TYPE WELL (TYPE __ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

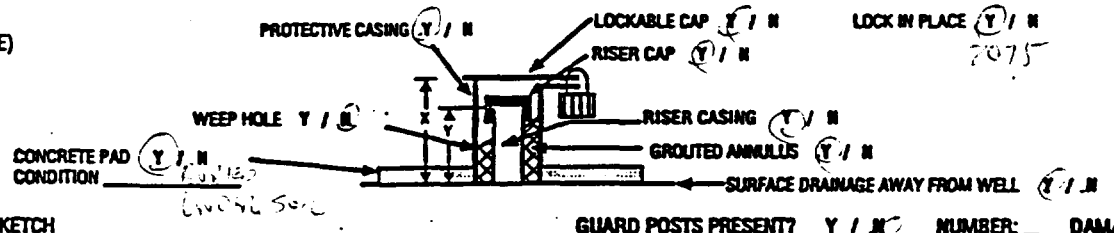
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: _____

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH
(CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y /

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☒ ROUND ☐ MATERIAL STEEL COATING _____ NONE ☐

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 2.32 FT. PROTECTIVE CASING: I.D. .147 IN. O.D. .5 IN.

RISER CASING STICK-UP: Y = 2.24 FT. RISER CASING: I.D. .118 IN. O.D. .12 IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☒ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	CRS		
TIME / DRY ☐	12:40 DNAPL	NO SEDIMENT ☐ DNAPL	
FROM MEASURE POINT, IF INDICATED =	3.59 FT.	____.____ FT.	12.93 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION =	____.____ FT.	____.____ FT.	____.____ FT.

(OFFICE CALCULATION)

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☒ FIRM ☐ HARD ☐

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

NOTE:

CHECKED BY _____

EXISTING WELL EVALUATION

DATE 6/9/92 WELL SP5/5A-15

BY TCC, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	_____
TYPE WELL (TYPE __ WEL):	[ ]	_____
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	_____
(NORTHING):	[ ]	_____
(EASTING):	[ ]	_____
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	_____
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	_____
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	_____
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		_____
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		_____
REF. POINT FOR MEASUREMENT (PMEASURE):		_____
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		_____

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

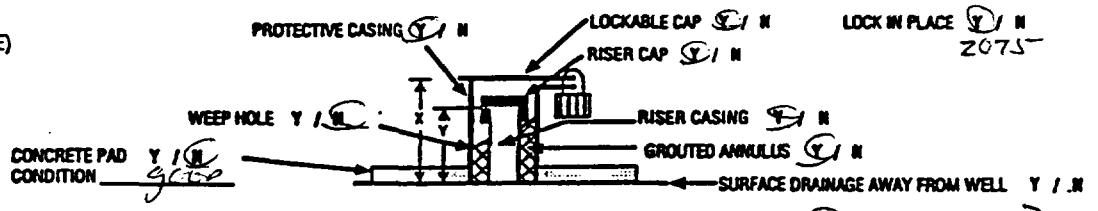
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: _____

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH
(CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? (Y) / N NUMBER: 2 DAMAGED: Y / (N)

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☒ ROUND ☐ MATERIAL STEEL COATING _____ NONE ☒

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 2.73 FT. PROTECTIVE CASING: I.D. .47 IN. O.D. .5 IN.

RISER CASING STICK-UP: Y = 2.24 FT. RISER CASING: I.D. .18 IN. O.D. .2 IN.

2.73 - 2.24

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☐ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	OIS		
TIME	17:20 DRY ☐	NO SEDIMENT ☐	
FROM MEASURE POINT, IF INDICATED =	9.84 FT.	____.____ FT.	32.31 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION =	____.____ FT.	____.____ FT.	____.____ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☐ FIRM ☒ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

DATE _____

EXISTING WELL EVALUATION

DATE TC 6/9/92 FC 6/9/92 WELL SPS/SA-16

BY TCO, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE __ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

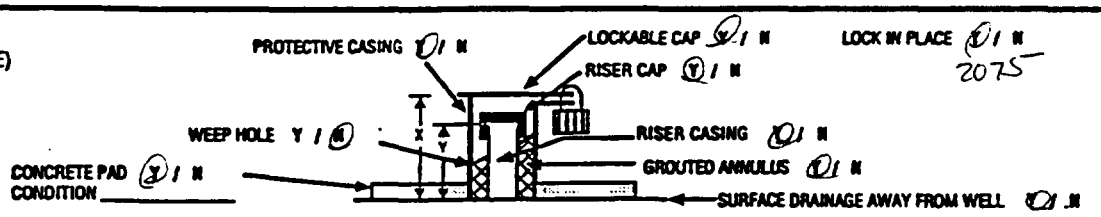
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: PROTECTIVE CASING LABELED ST 91-16 PVC CAP LABELED PVC EXTENSION FROM GRAVEL SURFACE

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH (CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☒ ROUND ☐ MATERIAL STEEL COATING _____ NONE ☒

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 2.69 FT. PROTECTIVE CASING: I.D. .47 FT IN. O.D. .5 FT IN.

RISER CASING STICK-UP: Y = 2.50 FT. RISER CASING: I.D. .18 FT IN. O.D. .2 FT IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☐ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: 2 MARKS ON PVC CASING

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	ORS		
TIME / DRY ☐	09:39 LNAPL	NO SEDIMENT ☐ DNAPL	
FROM MEASURE POINT, IF INDICATED =	15.23 FT.	____.____ FT.	22.60 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	FT.	FT.	FT.
ELEVATION =	FT.	FT.	FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM (X) FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

DATE _____

EXISTING WELL EVALUATION

DATE 6/9/92 WELL SPS/SA-18

BY TRO, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE __ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? Y / (N)

DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

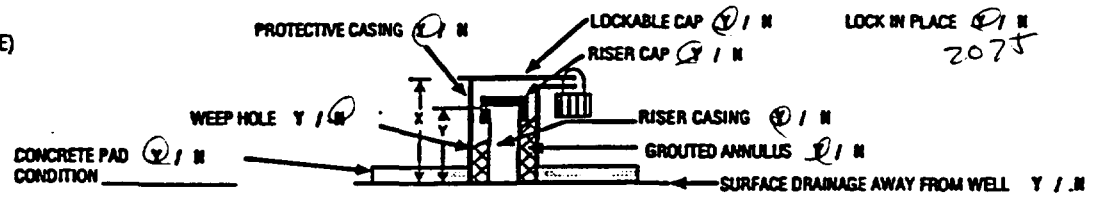
COMMENTS: LABELED ST 1-18 ON CASING
BUT SPS-18 ON
6/9/92
NEEDS FLUSH ~~ALUM~~ THREAD
PVC CAP

WELL ACCESS

WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH

(CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH

GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☒ ROUND ☐ MATERIAL STEEL COATING _____ NONE ☒

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 3.22 FT. PROTECTIVE CASING: I.D. .47 IN. FT O.D. .52 IN. FT

RISER CASING STICK-UP: Y = 2.89 FT. RISER CASING: I.D. .18 IN. FT O.D. .2 IN. FT

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☒ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	OIS		
TIME	9 : 32 DRY ☐	LNAPL NO SEDIMENT ☐ DNAPL	
FROM MEASURE POINT, IF INDICATED =	13.35 FT.	— ____.____ FT. —	20.76 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION =	____.____ FT.	____.____ FT.	____.____ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☒ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____ DATE _____

EXISTING WELL EVALUATION

DATE 6/9/92 WELL SP5/SA-19

BY TCO, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE __ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

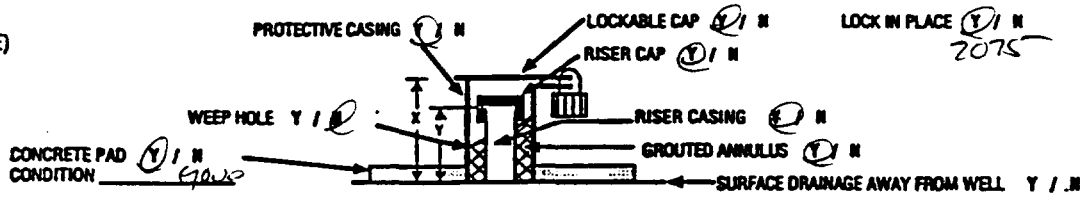
STATUS CORRECT? (Y) / N

COMMENTS: TOP LABELED SP 20-19 TCO 6/9/92 4T

EXTENSION ADDED TO PVC

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH (CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? (Y) / N NUMBER: 3 DAMAGED: Y (N)

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☒ ROUND ☐ MATERIAL STEEL COATING _____ NONE ☒

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 2.89 FT. PROTECTIVE CASING: I.D. .47 IN. FT O.D. .51 IN. FT

RISER CASING STICK-UP: Y = 2.22 FT. RISER CASING: I.D. .18 IN. FT O.D. .20 IN. FT

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☐ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	OPS		
TIME	09:20 DRY ☐	NO SEDIMENT ☐	
FROM MEASURE POINT, IF INDICATED =	14.94 FT. (6/10/92) 14.93 LNAPL	_____ FT. DNAPL	22.25 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	_____ FT.	_____ FT.	_____ FT.
FROM GROUND SURFACE =	FT.	FT.	FT.
ELEVATION =	FT.	FT.	FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☐ FIRM ☒ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES AS APPROPRIATE

CHECKED BY _____

DATE _____

EXISTING WELL EVALUATION

DATE 6/10/12 WELL SJ5/5H-2C

BY TC, JT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	_____
TYPE WELL (TYPE __ WEL):	[ ]	_____
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	_____
(NORTHING):	[ ]	_____
(EASTING):	[ ]	_____
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	_____
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	_____
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	_____
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		_____
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		_____
REF. POINT FOR MEASUREMENT (PMEASURE):		_____
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		_____

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

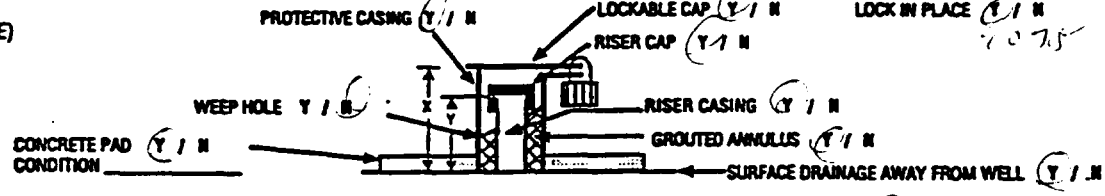
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: FROST HEAVE

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH (CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y /

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☒ ROUND ☐ MATERIAL STEEL COATING _____ NONE ☐

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 3.33 FT. PROTECTIVE CASING: I.D. .47 IN. O.D. .50 IN.

RISER CASING STICK-UP: Y = 3.01 FT. RISER CASING: I.D. .18 IN. O.D. .28 IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☐ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	OPS		
TIME	12:50 DRY ☐ GW/NAPL	NO SEDIMENT ☐ GW/NAPL	
FROM MEASURE POINT, IF INDICATED =	3.67 FT.	____.____ FT.	11.06 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION =	____.____ FT.	____.____ FT.	____.____ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☐ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

NOTE:

CHECKED BY _____

EXISTING WELL EVALUATION

DATE 6/5/92 WELL 91 21

BY TCB SERIAL NO.

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE __ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[220.25]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

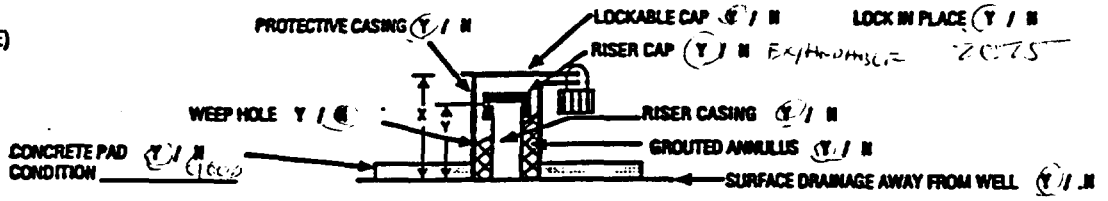
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: _____

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH (CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☒ ROUND ☐ MATERIAL STEEL COATING PAINT NONE ☐

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 2.9 FT. PROTECTIVE CASING: I.D. .97 IN. O.D. .5 IN.

RISER CASING STICK-UP: Y = 2.79 FT. RISER CASING: I.D. .17 IN. O.D. .6 IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☒ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	OIS		
TIME	1610:05 DRY ☐ LNAPL	NO SEDIMENT ☐ DNAPL	
FROM MEASURE POINT, IF INDICATED =	6.81 FT.	___.___ FT.	21.84 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	___.___ FT.	___.___ FT.	___.___ FT.
FROM GROUND SURFACE =	___.___ FT.	___.___ FT.	___.___ FT.
ELEVATION =	___.___ FT.	___.___ FT.	___.___ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☐ FIRM ☒ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

( ) = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

EXISTING WELL EVALUATION

DATE 6/5/92 WELL S141-22

BY TCO, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	[DATA]	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE __ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[202.94]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

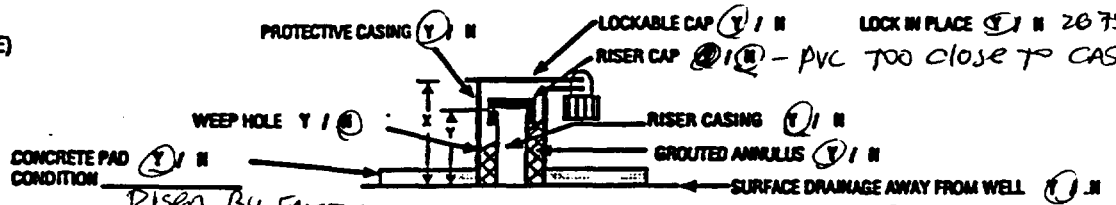
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: FROST HEAVE

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH (CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☒ ROUND ☒ MATERIAL STEEL COATING PAINT NONE ☐

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 2.7 FT. PROTECTIVE CASING: I.D. .97 FT IN. O.D. .5 FT IN.

RISER CASING STICK-UP: Y = 2.73 FT. RISER CASING: I.D. .17 FT IN. O.D. .2 FT IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☒ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	ORS		
TIME / DRY ☐	17:36 LNAPL	NO SEDIMENT ☐ DNAPL	
FROM MEASURE POINT, IF INDICATED =	11.38 FT.	—	19.59 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION	____.____ FT.	____.____ FT.	____.____ FT.

(OFFICE CALCULATION)

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☐ FIRM ☐ HARD ☐

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

EXISTING WELL EVALUATION

DATE 6/5/92 WELL ST 41-23

BY TW, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE __ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[207.57]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? Y / N

IS WELL IDENTIFIED SAME AS DATA? Y / N

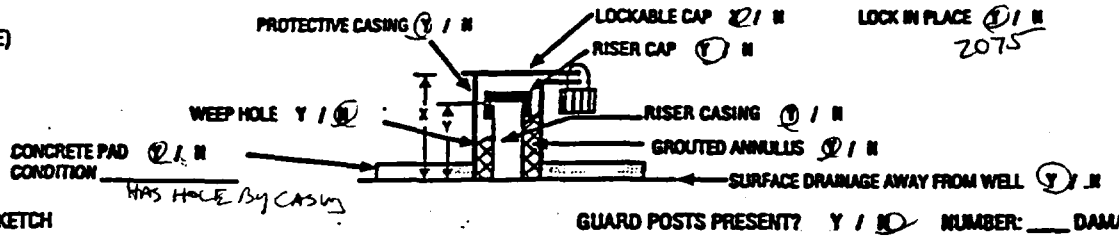
DOES LOCATION VISUALLY CONFORM TO DATA? Y / N

STATUS CORRECT? Y / N

COMMENTS: CEMENT PAD; PROTECTIVE CASING NOT SITTING ON DIRT, FROST HEAVE

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH
(CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / N NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / N CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / N MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / N

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☒ ROUND ☐ MATERIAL STEEL COATING PAINT NONE ☐

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 2.70 FT. PROTECTIVE CASING: I.D. .47 FT IN. O.D. .5 FT IN.

RISER CASING STICK-UP: Y = 2.57 FT. RISER CASING: I.D. .17 FT IN. O.D. .2 FT IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☒ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	ORS		
TIME / DRY	17:31 DRY ☐ LNAPL	NO SEDIMENT ☐ DNAPL	
FROM MEASURE POINT, IF INDICATED =	10.73 FT.	____.____ FT.	21.12 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION =	____.____ FT.	____.____ FT.	____.____ FT.

(OFFICE CALCULATION)

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☐ FIRM ☐ HARD ☐

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

( ) = EXISTING DATA FROM _____ *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

EXISTING WELL EVALUATION

DATE 6/5/92 WELL S/91-29

BY TCO, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	_____
TYPE WELL (TYPE __ WEL):	[ ]	_____
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	_____
(NORTHING):	[ ]	_____
(EASTING):	[ ]	_____
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	_____
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[212.16]	_____
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	_____
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		_____
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		_____
REF. POINT FOR MEASUREMENT (PMEASURE):		_____
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		_____

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

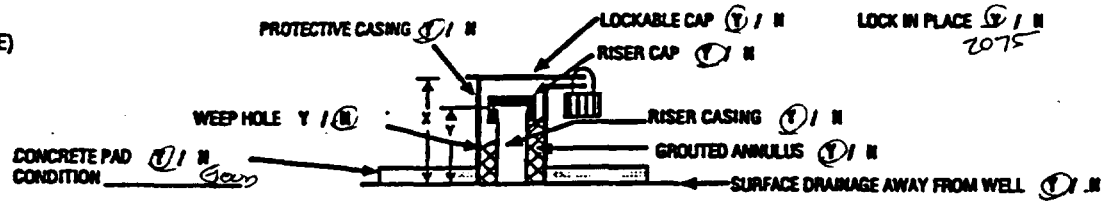
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: _____

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH
(CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / N NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☒ ROUND ☐ MATERIAL STEEL COATING PAINT NONE ☐

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 3.00 FT. PROTECTIVE CASING: I.D. .97 FT IN. O.D. .5 FT IN.

RISER CASING STICK-UP: Y = 2.92 FT. RISER CASING: I.D. .17 IN FT O.D. .20 IN FT

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☒ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	ORS		
TIME	17:20 DRY ☐ LNAPL	NO SEDIMENT ☐ DNAPL	
FROM MEASURE POINT, IF INDICATED =	4.42 FT.	____.____ FT.	19.46 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION	____.____ FT.	____.____ FT.	____.____ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☒ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

( ) = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

EXISTING WELL EVALUATION

DATE 6/5/92 WELL ST-4-25

BY TOO, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	_____
TYPE WELL (TYPE __ WEL):	[ ]	_____
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	_____
(NORTHING):	[ ]	_____
(EASTING):	[ ]	_____
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	_____
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[220.44]	_____
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	_____
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		_____
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		_____
REF. POINT FOR MEASUREMENT (PMEASURE):		_____
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		_____

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

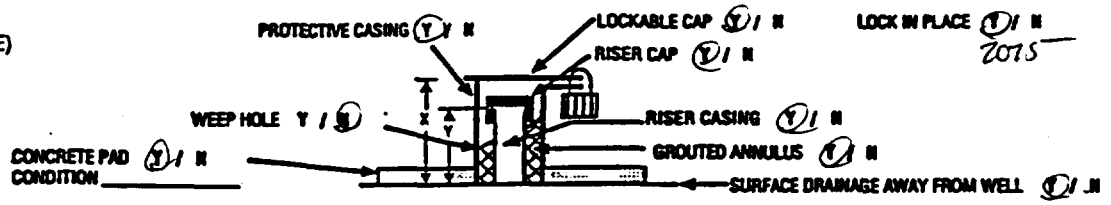
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: _____

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH (CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☒ ROUND ☐ MATERIAL STEEL COATING PAINT NONE ☐

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 3.24 FT. PROTECTIVE CASING: I.D. .47 FT IN. O.D. .5 FT IN.

RISER CASING STICK-UP: Y = 3.14 FT. RISER CASING: I.D. .17 FT IN. O.D. .2 FT IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☒ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	ORS		
TIME	16:16 DRY ☐ LNAPL	NO SEDIMENT ☐ DNAPL	
FROM MEASURE POINT, IF INDICATED =	6.36 FT.	___.___ FT.	16.19 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	___.___ FT.	___.___ FT.	___.___ FT.
FROM GROUND SURFACE =	___.___ FT.	___.___ FT.	___.___ FT.
ELEVATION =	___.___ FT.	___.___ FT.	___.___ FT.

(OFFICE CALCULATION)

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☐ FIRM ☒ HARD ☐

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

EXISTING WELL EVALUATION

DATE 6/5/92 WELL 31-71-26

BY TCO, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	_____
TYPE WELL (TYPE __ WEL):	[ ]	_____
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	_____
(NORTHING):	[ ]	_____
(EASTING):	[ ]	_____
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	_____
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[215.05]	_____
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	_____
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		_____
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		_____
REF. POINT FOR MEASUREMENT (PMEASURE):		_____
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		_____

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

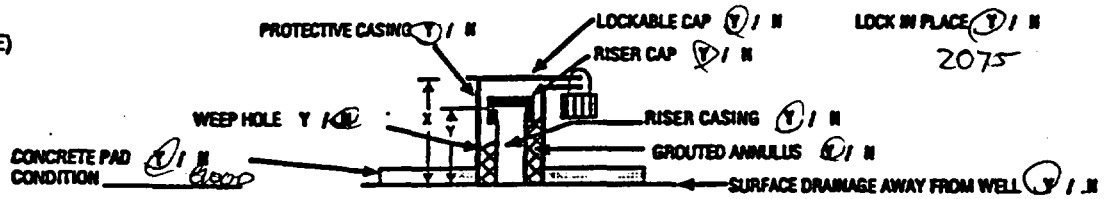
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: _____

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH (CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☒ ROUND ☐ MATERIAL STEEL COATING PAINT NONE ☐

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 3.08 FT. PROTECTIVE CASING: I.D. .47 FT IN. O.D. .5 FT IN.

RISER CASING STICK-UP: Y = 2.97 FT. RISER CASING: I.D. .17 FT IN. O.D. .2 FT IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☒ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	ORS		
TIME	17:11 DRY ☐	LNAPL 13.195 NO SEDIMENT ☐	DNAPL
FROM MEASURE POINT, IF INDICATED =	13.195 12.20 FT.	____.____ FT.	21.33 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	13.20 FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION	____.____ FT.	____.____ FT.	____.____ FT.

(OFFICE CALCULATION)

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☐ FIRM ☐ HARD ☐

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

( ) = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

EXISTING WELL EVALUATION

DATE 6/10/92 WELL SP5/5A-27

BY TCO, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE__WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

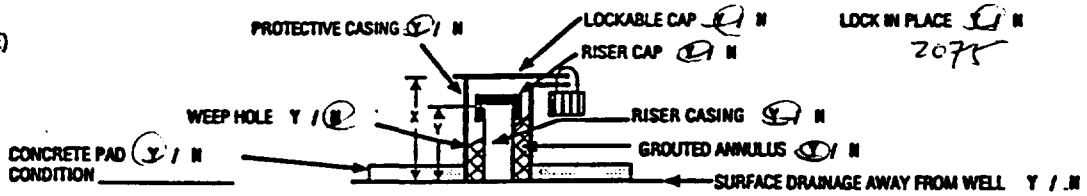
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: GOOD WELL

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH
(CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH

GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☐ ROUND ☒ MATERIAL STEEL COATING PAINT NONE ☐

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 3.11 FT. (TOC 6/11/92)

RISER CASING STICK-UP: Y = 1.61 FT.

PROTECTIVE CASING: I.D. 5.2 FT IN. O.D. .55 FT IN.

RISER CASING: I.D. .133 IN. O.D. .137 IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☒ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	OPS		
TIME	8:09		
	DRY ☐ LNAPL	NO SEDIMENT ☐ DNAPL	
FROM MEASURE POINT, IF INDICATED =	11.78 FT. (TOC 6/11/92)	___.___ FT.	21.95 FT. (TOC 6/11/92)
IF MP NOT INDICATED THEN FROM TOP OF RISER =	___.___ FT.	___.___ FT.	___.___ FT.
FROM GROUND SURFACE =	___.___ FT.	___.___ FT.	___.___ FT.
ELEVATION =	___.___ FT.	___.___ FT.	___.___ FT. (OFFICE CALCULATION)

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☐ FIRM ☐ HARD ☐

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

EXISTING WELL EVALUATION

DATE 6/10/92 WELL SPS/SA-28

BY TCO, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE _ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

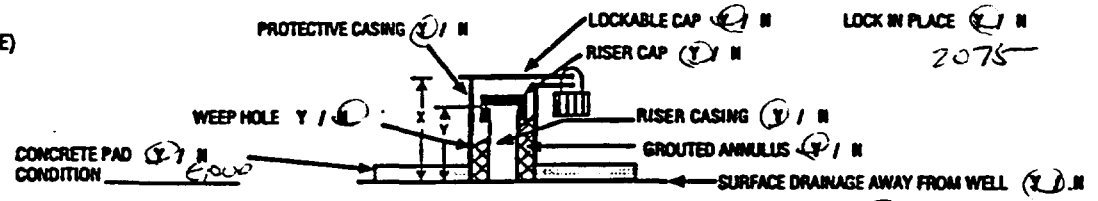
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: DIRTY well

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH
(CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☐ ROUND ☒ MATERIAL _____ COATING _____ NONE ☐

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 3.5 FT. PROTECTIVE CASING: I.D. .47 FT O.D. .48 FT (5 TIC 6/10/92)

RISER CASING STICK-UP: Y = 3.13 FT. RISER CASING: I.D. 3.33 FT O.D. 4.37 FT (TIC 6/10/92)

.37

3.5 - .37 = 3

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☒ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	OPS		
TIME	7:59 DRY ☐ LNAPL	NO SEDIMENT ☐ DNAPL	26.95 (TIC 6/10/92)
FROM MEASURE POINT, IF INDICATED =	22.87 (TIC 6/10/92) 22.02 FT.	____.____ FT.	____.____ FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	FT.	FT.	FT.
ELEVATION =	FT.	FT.	FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☐ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED
[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

EXISTING WELL EVALUATION

DATE 6/5/92 WELL ST41-29

BY TCO, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	_____
TYPE WELL (TYPE __ WEL):	[ ]	_____
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	_____
(NORTHING):	[ ]	_____
(EASTING):	[ ]	_____
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	_____
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[216.16]	_____
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	_____
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		_____
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		_____
REF. POINT FOR MEASUREMENT (PMEASURE):		_____
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		_____

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

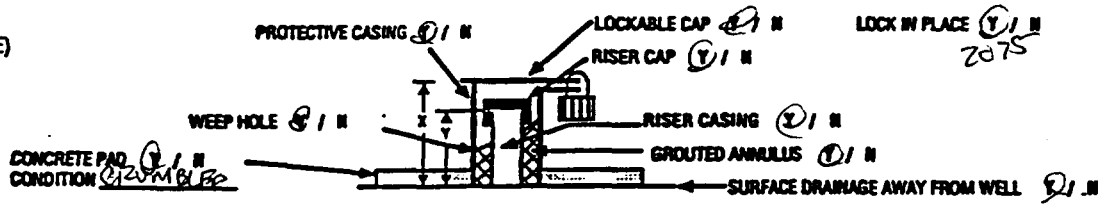
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: 4" PVC well
CONCRETE PAD DETERIORATED / MAY BE JUST BENTONITE

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH (CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☐ ROUND ☒ MATERIAL STEEL COATING PAINT NONE ☐

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 2.82 FT. PROTECTIVE CASING: I.D. .53 IN. FT O.D. .55 IN. FT

RISER CASING STICK-UP: Y = 2.39 FT. RISER CASING: I.D. .32 IN. FT O.D. .37 IN. FT

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☒ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	ODS		
TIME	1110 : 20 DRY ☐ LNAPL	NO SEDIMENT ☐ DNAPL	
FROM MEASURE POINT, IF INDICATED =	5.0875 FT. TCO 5.065	___.___ FT.	— 15.00 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	___.___ FT.	___.___ FT.	___.___ FT.
FROM GROUND SURFACE =	___.___ FT.	___.___ FT.	___.___ FT.
ELEVATION =	___.___ FT.	___.___ FT.	___.___ FT.

(OFFICE CALCULATION)

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☐ FIRM ☒ HARD ☐

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

( ) = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

EXISTING WELL EVALUATION

DATE 6/11/92 WELL ST-41-30

BY TCO, ST SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL)	[ ]	
TYPE WELL (TYPE __ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? Y / N

IS WELL IDENTIFIED SAME AS DATA? Y / N

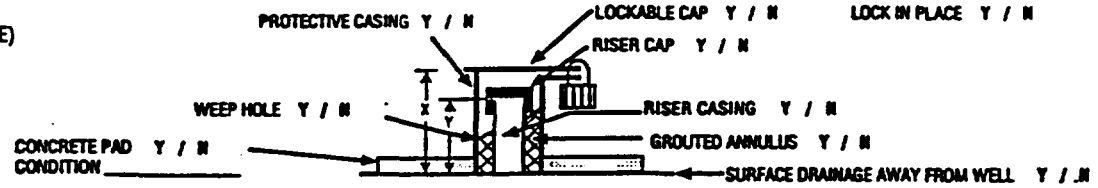
DOES LOCATION VISUALLY CONFORM TO DATA? Y / N

STATUS CORRECT? Y / N

COMMENTS: WELL NOT FOUND

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH
(CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / N NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / N CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / N MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / N

RISER CASING MATERIAL: SS ☐ PVC ☐ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☐

PROTECTIVE CASING: SQUARE ☐ ROUND ☐ MATERIAL _____ COATING _____ NONE ☐

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = _____._____ FT. PROTECTIVE CASING: I. D. _____ IN. O.D. _____ IN.

RISER CASING STICK-UP: Y = _____._____ FT. RISER CASING: I. D. _____ IN. O.D. _____ IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☐ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	_____		
TIME / DRY	_____ : _____ DRY ☐	NO SEDIMENT ☐	
FROM MEASURE POINT, IF INDICATED =	_____._____ FT.	_____._____ FT.	_____._____ FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	_____._____ FT.	_____._____ FT.	_____._____ FT.
FROM GROUND SURFACE =	_____._____ FT.	_____._____ FT.	_____._____ FT.
ELEVATION =	_____._____ FT.	_____._____ FT.	_____._____ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☐ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

[ ] = EXISTING DATA FROM _____ *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

EXISTING WELL EVALUATION

DATE 6/11/92 WELL SPS/SA-31

BY Bob Trebble SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE __ WEL):	[Above Ground]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):	TOP of PVC Riser	
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? Y / (N)

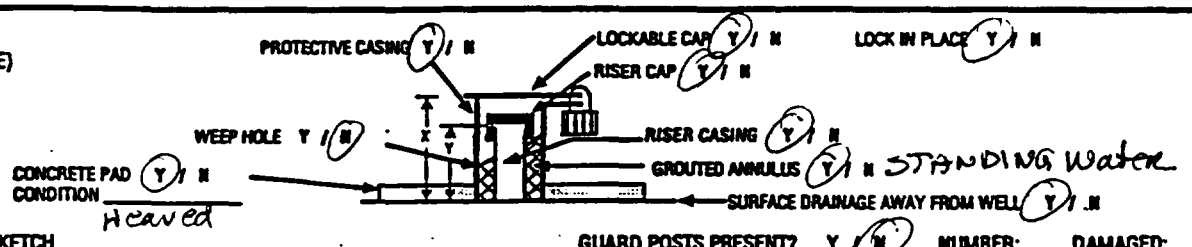
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: HNU = BG = 0.3 ppm
DH = 0.1 ppm

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH
(CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y /

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ 4" Sch 40

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☐

PROTECTIVE CASING: SQUARE ☐ ROUND ☒ MATERIAL metal COATING _____ NONE ☐

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 2.92 FT. PROTECTIVE CASING: I.D. 6.53" IN. O.D. 6.55" IN.

RISER CASING STICK-UP: Y = 1.89 FT. RISER CASING: I.D. 4.33" IN. O.D. 4.38" IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☒ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	ORS		
TIME	14:45 DRY ☐	NO SEDIMENT ☐	
FROM MEASURE POINT, IF INDICATED =	3.42 FT.	____.____ FT.	15.00 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION =	____.____ FT.	____.____ FT.	____.____ FT.

(OFFICE CALCULATION)

BOTTOM WELL CONDITIONS: SOFT ☒ MOD. FIRM ☐ FIRM ☐ HARD ☐

COMMENTS: Silty

*OPTIONAL BASED ON RI/FS NEED

NOTE:

CHECKED BY _____

EXISTING WELL EVALUATION

DATE 6/11/92 WELL SPS/SA-3

BY Bob Trebble SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE__WEL):	[Q Bove Grav]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		PVC
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? Y / (N)

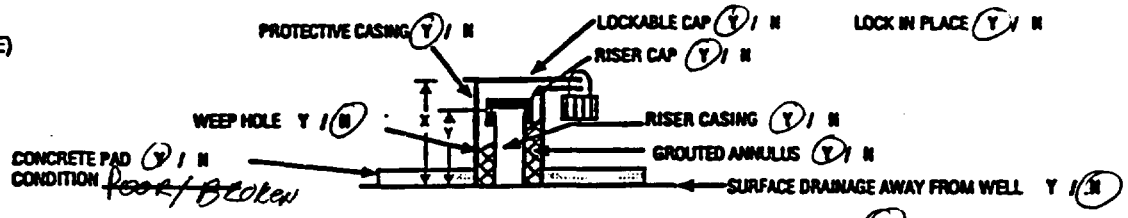
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? Y / N

COMMENTS: HNU = BG = .3
PH = .3

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH
(CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y /

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ 4" SCH 80

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☐

PROTECTIVE CASING: SQUARE ☐ ROUND ☒ MATERIAL Metal COATING _____ NONE ☐

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 2.79 FT. PROTECTIVE CASING: I.D. .53' IN. O.D. .55' IN.

RISER CASING STICK-UP: Y = 2.35 FT. RISER CASING: I.D. .33' IN. O.D. .38' IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☒ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

NO Floaters
NO Sinkers

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	ORS		
TIME / DRY	14:30 ☐	NO SEDIMENT ☐	
FROM MEASURE POINT, IF INDICATED =	20.13 FT.	____.____ FT.	28.4' FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION =	____.____ FT.	____.____ FT.	____.____ FT.

BOTTOM WELL CONDITIONS: SOFT ☒ MOD. FIRM ☐ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: Possible Silt

*OPTIONAL BASED ON RI/FS NEED

NOTE: CHECKED BY _____

EXISTING WELL EVALUATION

DATE 6/11/92 WELL SPS/SA-35

BY Bob Trebble SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[NO]	
TYPE WELL (TYPE__WEL):	[Monitoring above Ground]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[active]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):	TOP of PVC	
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? Y / (N)

DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? Y / N

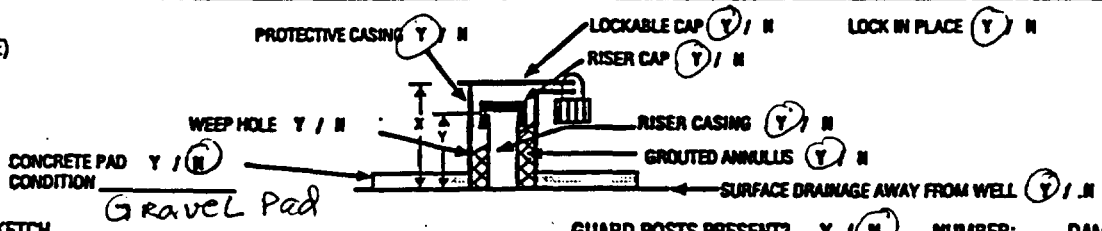
COMMENTS: _____

HNU = BG = .3 PPM

DH = BG

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH (CIRCLE RESPONSE)



Gravel Pad

☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y /

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ 4" SCH 80

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☐

PROTECTIVE CASING: SQUARE ☐ ROUND ☒ MATERIAL Metal COATING _____ NONE ☐

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 2.3 FT. PROTECTIVE CASING: I.D. .67' IN. O.D. .72' IN.

RISER CASING STICK-UP: Y = 2.05 FT. RISER CASING: I.D. .33' IN. O.D. .38' IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☒ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

NO Floaters
NO Sinkers

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	ORS		
TIME / DRY	14:00 DRY ☐	NO SEDIMENT ☐	
FROM MEASURE POINT, IF INDICATED =	3.35 FT.	___.___ FT.	21.1 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	___.___ FT.	___.___ FT.	___.___ FT.
FROM GROUND SURFACE =	___.___ FT.	___.___ FT.	___.___ FT.
ELEVATION =	___.___ FT.	___.___ FT.	___.___ FT.

BOTTOM WELL CONDITIONS: SOFT ☒ MOD. FIRM ☐ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: Silt

*OPTIONAL BASED ON RI/FS NEED

NOTE: CHECKED BY _____

EXISTING WELL EVALUATION

DATE 6/11/92 WELL SPS/SA-34

BY Bob Trebble SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE __ WEL):	[Monitoring]	
PI WELL NAME (WELLNUM):	[ABOVE-GRN.]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	
MEASURE POINT CORRECTION, FT. (MPC):	[ADDED]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? Y / N

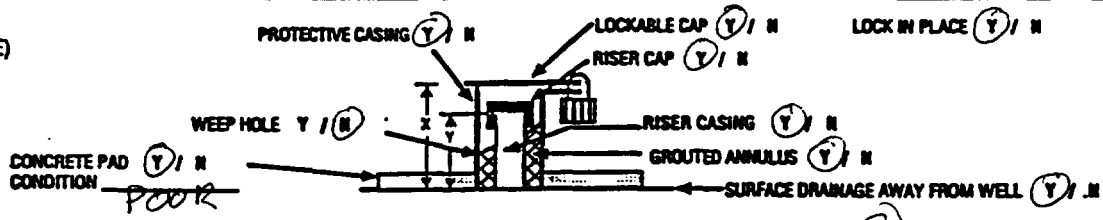
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? Y / N

COMMENTS: HNU-BG=.3
DH=.3

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH
(CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y /

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ 4" SCH 80

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☐

PROTECTIVE CASING: SQUARE ☐ ROUND ☒ MATERIAL Metal COATING _____ NONE ☐

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 3.39 FT. PROTECTIVE CASING: I.D. .53' IN. O.D. .55' IN.

RISER CASING STICK-UP: Y = 3.11 FT. RISER CASING: I.D. .33' IN. O.D. .38' IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☒ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

NO. Floaters

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
	METHOD ORS		Sinker @ ? 24.04'
	TIME 14:10 DRY ☐	NO SEDIMENT ☐	
FROM MEASURE POINT, IF INDICATED =	4.84 FT.	____.____ FT.	24.35 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION =	____.____ FT.	____.____ FT.	____.____ FT.

(OFFICE CALCULATION)

BOTTOM WELL CONDITIONS: SOFT ☒ MOD. FIRM ☐ FIRM ☐ HARD ☐

COMMENTS: Silty

*OPTIONAL BASED ON RI/FS NEED

NOTE: _____ CHECKED BY _____

EXISTING WELL EVALUATION

DATE 6/10/92 WELL SFSSA-35

BY TTO, ST SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE __ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

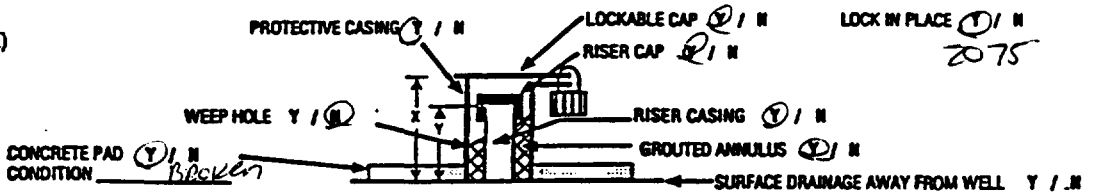
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: LABELED 784-35
OK, BAD CONCRETE

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH
(CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☐ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☐ ROUND ☒ MATERIAL STEEL COATING PAINT NONE ☐

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 3.23 FT. PROTECTIVE CASING: I.D. .53 IN. O.D. .55 IN.

RISER CASING STICK-UP: Y = 2.83 FT. RISER CASING: I.D. .33 IN. O.D. .37 IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☒ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	ORS		
TIME / DRY / NAPL	8:16 DRY ☐ NAPL	NO SEDIMENT ☐ DNAPL	
FROM MEASURE POINT, IF INDICATED =	12.00 FT.	___.___ FT.	28.92 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	___.___ FT.	___.___ FT.	___.___ FT.
FROM GROUND SURFACE =	___.___ FT.	___.___ FT.	___.___ FT.
ELEVATION =	___.___ FT.	___.___ FT.	___.___ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☒ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED
[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

EXISTING WELL EVALUATION

DATE 6/5/92 WELL ST20-01

BY TCO, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE__WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

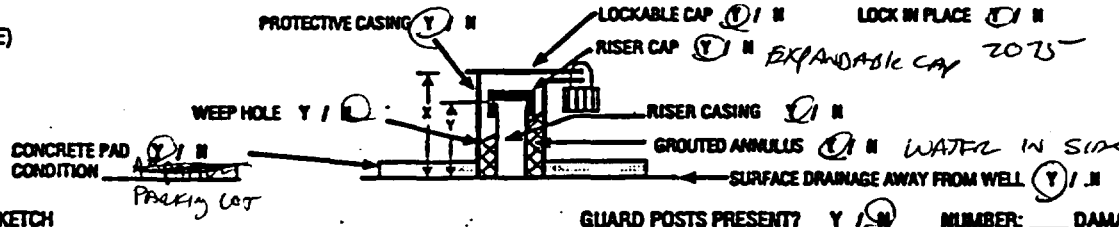
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: COMPLETED WITHOUT FLUSH SURFACE SEAL, WATER FROM PARKING LOT FLOWS OUT OVER TOP AND MAY GO INTO WELL

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH (CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION WATER FROM PARKING LOT DRAINS OVER UNSEALED COMPLETION

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC (X) FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE (X)

PROTECTIVE CASING: SQUARE ☐ ROUND (X) MATERIAL STEEL COATING _____ NONE (X)

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = -0.35 FT. PROTECTIVE CASING: I.D. .54 FT IN. O.D. .55 FT IN.

RISER CASING STICK-UP: Y = -0.63 FT. RISER CASING: I.D. .32 FT IN. O.D. .37 FT IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☐ GROUND SURFACE ☐ NOT INDICATED (X)

COMMENTS: PUT MARK ON N SIDE OF PVC

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	ORS		
TIME	13:42 DRY ☐ LNAPL	NO SEDIMENT ☐ DNAPL	
FROM MEASURE POINT, IF INDICATED =	26.08 FT.	___.___ FT.	30.93 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	___.___ FT.	___.___ FT.	___.___ FT.
FROM GROUND SURFACE =	___.___ FT.	___.___ FT.	___.___ FT.
ELEVATION =	___.___ FT.	___.___ FT.	___.___ FT.

(OFFICE CALCULATION)

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☐ FIRM (X) HARD ☐

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

( ) = EXISTING DATA FROM _____ *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

EXISTING WELL EVALUATION

DATE 6/5/92 WELL ST-70-02

BY TCC, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDE...IER (WELL):	[ ]	
TYPE WELL (TYPE __ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

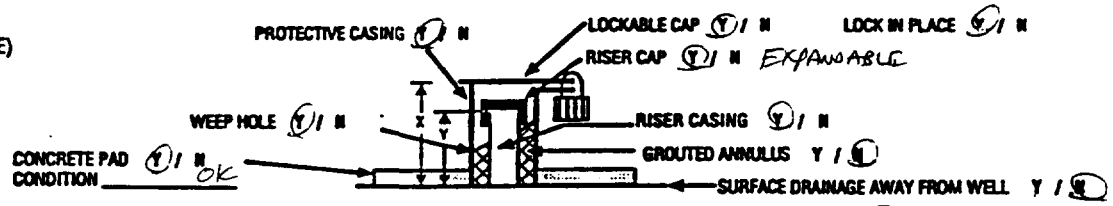
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: Flush Mount

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH (CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? (Y) / N CONDITION OK

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☐ ROUND ☒ MATERIAL _____ COATING _____ NONE ☒

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = −.82 FT. PROTECTIVE CASING: I.D. .54 IN. O.D. .55 IN.

RISER CASING STICK-UP: Y = −.98 FT. RISER CASING: I.D. .32 IN. O.D. .37 IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☒ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	ORS		
TIME / DRY	10:57 DRY ☐ LNAPL	NO SEDIMENT ☐ DNAPL	
FROM MEASURE POINT, IF INDICATED =	24.42 FT.	____.____ FT.	= 30.58 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION =	____.____ FT.	____.____ FT.	____.____ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☐ FIRM ☒ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

( ) = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

EXISTING WELL EVALUATION

DATE 6/5/92 WELL ST 20-03

BY TCC, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE _ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

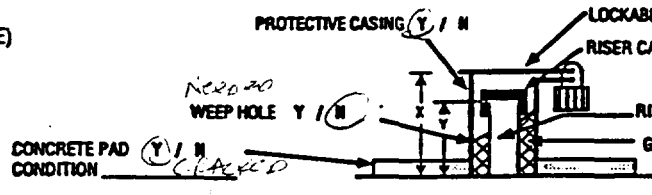
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: WELL CONSTRUCTED (SURFACE SEAL) SAME AS ST 20-05, SURFACE H2O CAN GET DOWN WELL, NEED WEEP HOLE, BETTER LOCK ACCESS, AND BETTER EXPANDABLE CAP.

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH
(CIRCLE RESPONSE)



2075 VERY DIFFICULT TO UNLOCK NOT STABLE

☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION WELL NEEDS 1) WEEP HOLE, 2) SANITARY SEAL 3) EXPANDABLE CAP

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☒ ROUND ☒ MATERIAL STEEL COATING _____ NONE ☒

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = -0.23 FT. PROTECTIVE CASING: I.D. .54 IN. O.D. .55 IN. FT

RISER CASING STICK-UP: Y = -0.35 FT. RISER CASING: I.D. .32 IN. O.D. .37 IN. FT

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☒ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	OBS		
TIME	10:34 DRY ☐ LNAPL	NO SEDIMENT ☐ DNAPL	
FROM MEASURE POINT, IF INDICATED =	23.58 FT.	____.____ FT.	— 29.77 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION =	____.____ FT.	____.____ FT.	____.____ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☒ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: C

*OPTIONAL BASED ON RI/FS NEED
[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

EXISTING WELL EVALUATION

DATE 6/5/92 WELL ST20-09

BY TCO, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE __ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

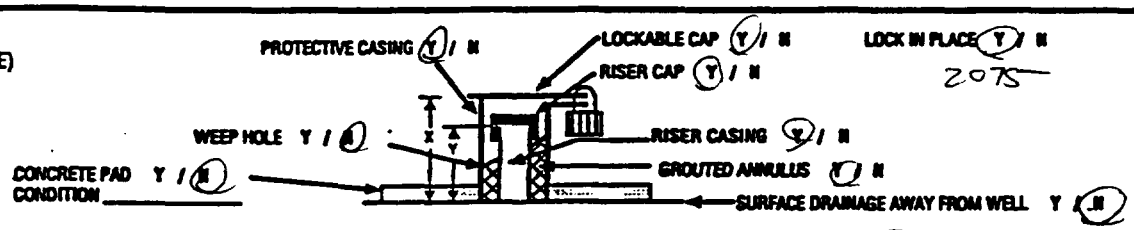
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: WELL IS BURIED IN TRAFFIC BOX @ 1' UNDERGROUND. EXPANDABLE CAP DOESN'T FIT PIC CASING. NO WEEP HOLE. SURFACE H2O DRAINS INTO FLUSH MOUNT.?

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH (CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION FLUSH MOUNT IN HOLE @ 1' BGS

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☐ ROUND ☒ MATERIAL STEEL COATING _____ NONE ☒

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = -0.6 FT. PROTECTIVE CASING: I.D. .51 IN. O.D. .55 IN. FT

RISER CASING STICK-UP: Y = -0.55 FT. RISER CASING: I.D. 3.25 IN. O.D. .37 IN. FT

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☒ GROUND SURFACE ☐ FT NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	ORS		
TIME	13:30 DRY ☐ LNAPL	NO SEDIMENT ☐ DNAPL	
FROM MEASURE POINT, IF INDICATED =	26.02 FT. —	___.___ FT. —	29.57 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	___.___ FT.	___.___ FT.	___.___ FT.
FROM GROUND SURFACE =	___.___ FT.	___.___ FT.	___.___ FT.
ELEVATION =	___.___ FT.	___.___ FT.	___.___ FT.

(OFFICE CALCULATION)

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☒ FIRM ☐ HARD ☐

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

EXISTING WELL EVALUATION

DATE 6/5/92 WELL ST 7C-05

BY TCC, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE __ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

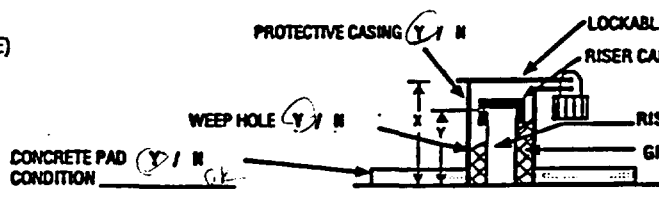
COMMENTS: SURFACE COMPLETION = FLUSH MOUNT, NO SEAL TO KEEP SURFACE H2O OUT OF COMPLETION, AND EXPANSABLE CAP DOES NOT FIT OVER RISER. SURFACE H2O COULD ENTER WELL. NEED BETTER SURFACE COMPLETION OR EXPANDABLE CAP. ALSO H2O ACCUMULATING INSIDE STEEL CASING INDICATING NO WEEP HOLE INST GOOD

WELL ACCESS

WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH

(CIRCLE RESPONSE)



☒ SEE BACK FOR SKETCH

GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? (Y) / N CONDITION NO SANITARY SEAL

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☐ ROUND ☒ MATERIAL _____ COATING _____ NONE ☒

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = -0.2 FT. PROTECTIVE CASING: I.D. .54 IN. O.D. .55 IN.

RISER CASING STICK-UP: Y = -0.33 FT. RISER CASING: I.D. 0.32 IN. O.D. 0.37 IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☒ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	OBS		
TIME	10:11 DRY ☐ LNAPL	NO SEDIMENT ☐ DNAPL	
FROM MEASURE POINT, IF INDICATED =	23.03 FT. —	____.____ FT. —	29.94 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION =	____.____ FT.	____.____ FT.	____.____ FT.

(OFFICE CALCULATION)

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☒ FIRM ☐ HARD ☐

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

EXISTING WELL EVALUATION

DATE 6/9/92 WELL B1MW

BY TCO, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE __ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) N

IS WELL IDENTIFIED SAME AS DATA? Y / (N)

DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

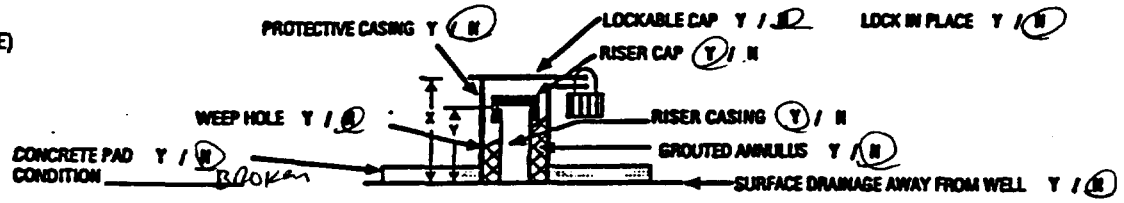
STATUS CORRECT? (Y) / N

COMMENTS: SLIGHT ODOR

SURFACE COMPLETION NEEDS REPAIR

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH (CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION PROTECTIVE CASING DESTROYED

DEDICATED SAMPLING DEVICE IN PLACE? Y / N MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / N

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☐ ROUND ☒ MATERIAL ~~STEEL~~ ALUMINUM COATING _____ NONE ☒

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 6.0 FT. PROTECTIVE CASING: I.D. _____ IN. O.D. _____ IN.

RISER CASING STICK-UP: Y = 0.6 FT. RISER CASING: 4"SCH I.D. _____ IN. O.D. _____ IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☐ GROUND SURFACE ☐ NOT INDICATED ☒

COMMENTS: PUT MARK ON 4" ~~STAINLESS STEEL~~ TOC 6/9/92 PVC

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	ORS		
TIME / DRY / NAPL	12:16 DRY ☐ LNAPL	NO SEDIMENT ☐	DNAPL
FROM MEASURE POINT, IF INDICATED =	25.50 FT.	____.____ FT.	33.20 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION =	____.____ FT.	____.____ FT.	____.____ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☒ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES AS APPROPRIATE

CHECKED BY _____

DATE _____

EXISTING WELL EVALUATION

DATE 6/9/92 WELL B2MW

BY TCO, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE __ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? Y / (N)

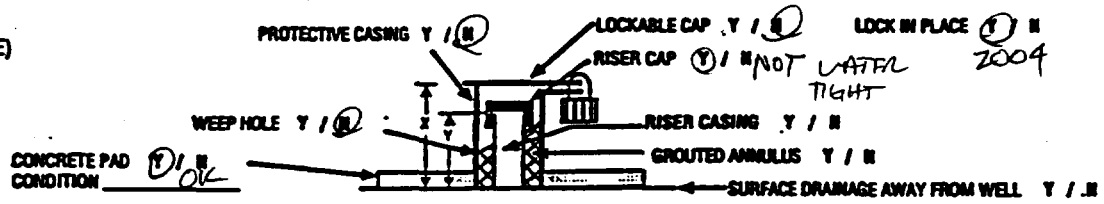
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: NEEDS WATER TIGHT RISER CAP

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH (CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / N NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION NO RUBBER SEAL

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☐ ROUND ☒ MATERIAL ALUMINUM COATING _____ NONE ☒

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 0.0 FT. PROTECTIVE CASING: I.D. .59 FT (N) O.D. .67 FT (N)

RISER CASING STICK-UP: Y = -0.4 FT. RISER CASING: I.D. .18 (N) FT O.D. .2 (N) FT

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☐ GROUND SURFACE ☐ NOT INDICATED ☒

COMMENTS: PUT MARK ON PVC RISER

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	ORS		
TIME	12:23 DRY ☐ LNAPL	NO SEDIMENT ☐ DNAPL	
FROM MEASURE POINT, IF INDICATED =	35.81 FT.	____.____ FT.	38.95 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION	____.____ FT.	____.____ FT.	____.____ FT.

(OFFICE CALCULATION)

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☒ FIRM ☐ HARD ☐

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES AS APPROPRIATE

CHECKED BY _____

DATE _____

EXISTING WELL EVALUATION

DATE 6/9/92 WELL B3MW

BY TCO, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE __ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? Y / (N)

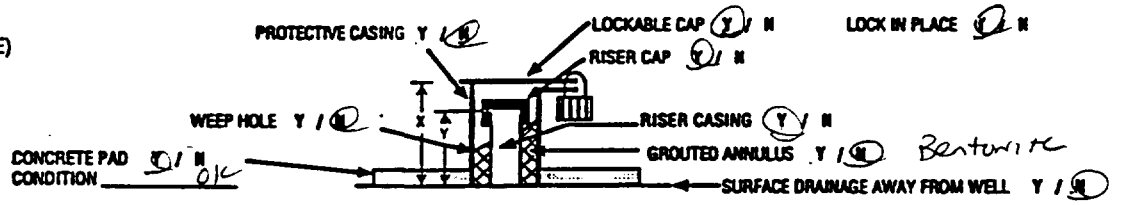
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: NEEDS WATER TIGHT RISER CAP

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH (CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH

GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☒ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION NEEDS WATER TIGHT RISER CAP

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☐ ROUND ☒ MATERIAL _____ COATING _____ NONE ☐

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 0.0 FT. PROTECTIVE CASING: I.D. .59 FT / IN. O.D. .67 FT / IN.

RISER CASING STICK-UP: Y = -0.48 FT. RISER CASING: I.D. .18 FT / IN. O.D. .2 FT / IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☐ GROUND SURFACE ☐ NOT INDICATED ☒

COMMENTS: PUT MARK ON PVC CASING

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	ORS		
TIME	12 : 32 DRY ☐ LNAPL	NO SEDIMENT ☐	DNAPL
FROM MEASURE POINT, IF INDICATED =	26.31 TOC 26.31 FT.	____.____ FT.	28.75 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION =	____.____ FT.	____.____ FT.	____.____ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☒ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES AS APPROPRIATE

CHECKED BY _____

DATE _____

EXISTING WELL EVALUATION

DATE 6/9/92 WELL B9MW

BY TCO, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE __ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? Y / (N)

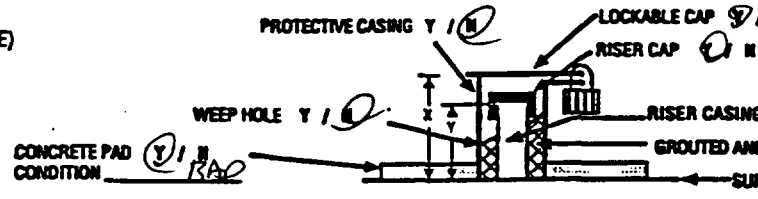
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: Well has has surface completion scraped off,

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH (CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☒ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION NO PROTECTIVE COVER, IS FLUSH MOUNT

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☐ ROUND ☒ MATERIAL STEEL COATING _____ NONE ☒

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 2.0 FT. PROTECTIVE CASING: I.D. BROKEN IN. O.D. _____ IN.

RISER CASING STICK-UP: Y = -0.35 FT. RISER CASING: I.D. .18 FT O.D. .2 IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☐ GROUND SURFACE ☐ NOT INDICATED ☒

COMMENTS: PVT MARK ON PVC CASING

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	OBS		
TIME / DRY / NAPL	12:06 DRY ☐ LNAPL Ø	NO SEDIMENT ☐ ONAPL	
FROM MEASURE POINT, IF INDICATED =	26.71 FT. Ø	____.____ FT. Ø	29.19 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION =	____.____ FT.	____.____ FT.	____.____ FT. (OFFICE CALCULATION)

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☒ FIRM ☐ HARD ☐

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

EXISTING WELL EVALUATION

DATE 6/5/12 WELL MW-1C

BY TCC, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE __ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[1499.53]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

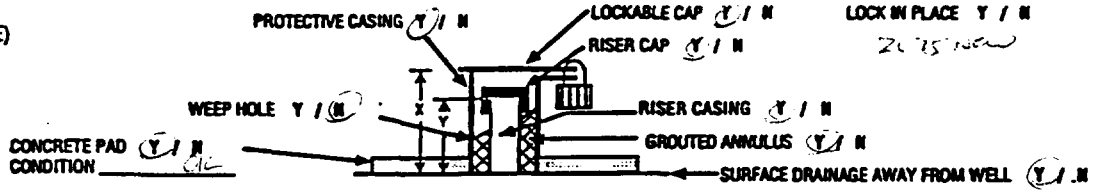
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: WAY BACK IN WOODS ~ 25'

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH
(CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☐ ROUND ☒ MATERIAL _____ COATING PAINT NONE ☐

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 1.65 FT. PROTECTIVE CASING: I. D. 5 IN. O.D. 155 FT IN.

RISER CASING STICK-UP: Y = 1.25 FT. RISER CASING: I. D. 2" Sch 40 PVC IN. O.D. _____ IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☐ GROUND SURFACE ☐ NOT INDICATED ☒

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	CES		
TIME	15:42 DRY ☐	NO SEDIMENT ☐	
FROM MEASURE POINT, IF INDICATED =	5.50 FT.	_____ FT.	25.71 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	_____ FT.	_____ FT.	_____ FT.
FROM GROUND SURFACE =	_____ FT.	_____ FT.	_____ FT.
ELEVATION =	_____ FT.	_____ FT.	_____ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☐ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES AS APPROPRIATE

CHECKED BY _____ DATE _____

EXISTING WELL EVALUATION

DATE 6/5/92 WELL W-11

BY TCC, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE __ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[150.51]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

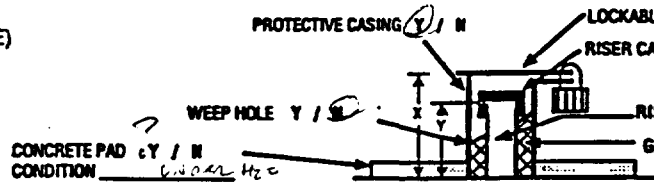
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: WELL LOCATED IN POND FROM SNOW PILES RUN OFF, SLIGHT SHEEN ON H2O, PVC HAS COUPLER @ 2' BTOC, WATER FROM POND GOES DOWN WELL

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH
(CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒ HAS COUPLER @ 2' BTOC, NOT ATTACHED

PROTECTIVE CASING: SQUARE ☐ ROUND ☒ MATERIAL _____ COATING PAINT NONE ☐

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 1.6 FT. PROTECTIVE CASING: I.D. .5 FT IN. O.D. .55 FT IN.

RISER CASING STICK-UP: Y = 1.55 FT. RISER CASING: I.D. 2" SCH 40 PVC IN. O.D. _____ IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☐ GROUND SURFACE ☐ NOT INDICATED ☒

COMMENTS: PUT MARK ON PVC, NORTHSIDE

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	ORS		
TIME	15 04 DRY ☐	LNAPL NO SEDIMENT ☐ DNAPL	
FROM MEASURE POINT, IF INDICATED =	8.59 FT.	_____ FT.	39.80 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	_____ FT.	_____ FT.	_____ FT.
FROM GROUND SURFACE =	_____ FT.	_____ FT.	_____ FT.
ELEVATION =	_____ FT.	_____ FT.	_____ FT.

(OFFICE CALCULATION)

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☒ FIRM ☐ HARD ☐

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

EXISTING WELL EVALUATION

DATE 6/3/92 WELL 10-12

BY TIGHT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	_____
TYPE WELL (TYPE __ WEL):	[ ]	_____
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	_____
(NORTHING):	[ ]	_____
(EASTING):	[ ]	_____
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	_____
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	_____
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	_____
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		_____
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		_____
REF. POINT FOR MEASUREMENT (PMEASURE):		_____
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		_____

WAS WELL FOUND? Y / N

IS WELL IDENTIFIED SAME AS DATA? Y / N

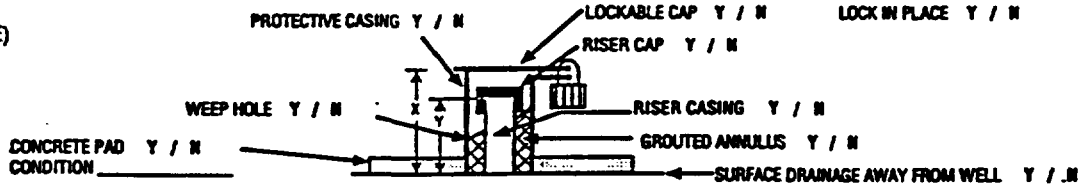
DOES LOCATION VISUALLY CONFORM TO DATA? Y / N

STATUS CORRECT? Y / N

COMMENTS: WELL NOT FOUND

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH (CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / N NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / N CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / N MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / N

RISER CASING MATERIAL: SS ☐ PVC ☐ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☐

PROTECTIVE CASING: SQUARE ☐ ROUND ☐ MATERIAL _____ COATING _____ NONE ☐

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = _____ . _____ FT. PROTECTIVE CASING: I.D. _____ IN. O.D. _____ IN.

RISER CASING STICK-UP: Y = _____ . _____ FT. RISER CASING: I.D. _____ IN. O.D. _____ IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☐ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	_____		
TIME / DRY	_____ : _____ DRY ☐	NO SEDIMENT ☐	
FROM MEASURE POINT, IF INDICATED =	_____ . _____ FT.	_____ . _____ FT.	_____ . _____ FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	_____ . _____ FT.	_____ . _____ FT.	_____ . _____ FT.
FROM GROUND SURFACE =	_____ . _____ FT.	_____ . _____ FT.	_____ . _____ FT.
ELEVATION =	_____ . _____ FT.	_____ . _____ FT.	_____ . _____ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☐ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

DATE _____

EXISTING WELL EVALUATION

DATE 6/4/92 WELL 10-13

BY TCC, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE __ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[154.09]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

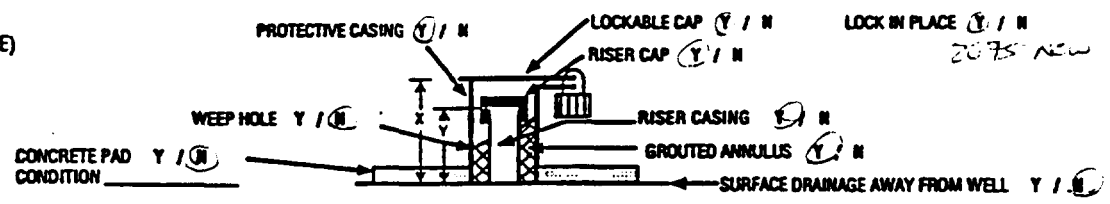
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: Good (C-1)

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH
(CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☐ ROUND ☒ MATERIAL STEEL COATING PAINT NONE ☐

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 1.69 FT. PROTECTIVE CASING: I.D. .5 FT IN. O.D. .55 FT IN.

RISER CASING STICK-UP: Y = 1.58 FT. RISER CASING: I.D. 3" SCH 40 PVC IN. O.D. _____ IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☒ NEW GROUND SURFACE ☐ NOT INDICATED ☒

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	C12S		
TIME	14:07 DRY ☐ FLOATERS	NO SEDIMENT ☐ DNAPL	
FROM MEASURE POINT, IF INDICATED =	13.24 FT.	—— FT.	32.78 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION =	____.____ FT.	____.____ FT.	____.____ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☒ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

* OPTIONAL BASED ON RI/FS NEED
[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

EXISTING WELL EVALUATION

DATE 6/8/92 WELL IS1-01

BY TCO/BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE __ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

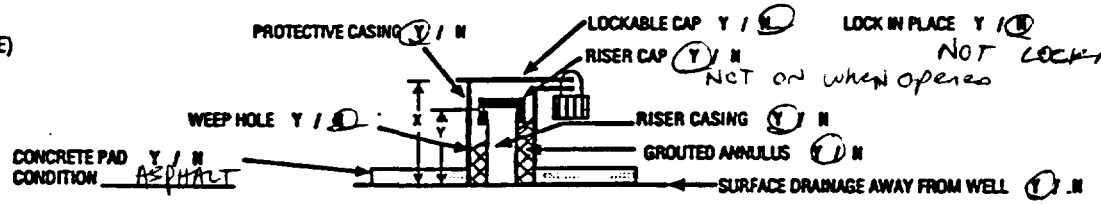
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? Y / (N)

COMMENTS: WELL OPEN WHILE PAVING OPERATIONS LIKELY OK, BUT LOOKS LIKE SURFACE COMPLETION WAS BUMPED BY HEAVY EQUIPMENT. LOOKS LIKE RUST HAS LEAKED DOWN WELL. DONT KNOW HOW LONG RISER CAP WAS OFF OR IF SURFACE H2O LEAKED DOWN.

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH (CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION COMPLETION BUMPED BY HEAVY EQUIPMENT

DEDICATED SAMPLING DEVICE IN PLACE? Y / N MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / N

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☐ ROUND ☒ MATERIAL STEEL COATING _____ NONE ☒

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 0.00* FT. Completion moved by paving equipment

PROTECTIVE CASING: I.D. 17 IN. O.D. .8 FT IN.

RISER CASING STICK-UP: Y = 0.108* FT.

RISER CASING: I.D. 3" SCH 40 PVC IN. O.D. _____ IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☐ GROUND SURFACE ☐ NOT INDICATED ☒

COMMENTS: PUT MARK ON PVC

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	ORS		
TIME	15:21		
	DRY ☐ ONAPL	NO SEDIMENT ☐ ONAPL	
FROM MEASURE POINT, IF INDICATED =	26.29 FT. 0	____.____ FT. 0	34.80 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION =	____.____ FT.	____.____ FT.	____.____ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☒ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

( ) = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

EXISTING WELL EVALUATION

DATE 6/8/92 WELL IS2-01

BY TCO, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE __ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? Y / (N)

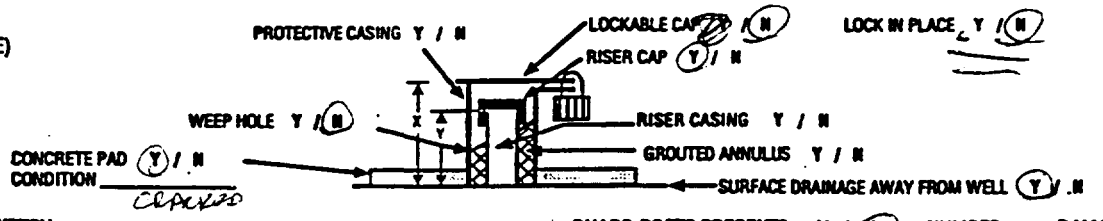
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) N

COMMENTS: WELL NEEDS NEW BOLT, NOT LOCKED

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH (CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? (Y) / N CONDITION RUSTY

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☐ ROUND ☒ MATERIAL STEEL COATING _____ NONE ☒

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 0.0 FT. PROTECTIVE CASING: I.D. .7 FT IN. O.D. .8 FT IN.

RISER CASING STICK-UP: Y = -0.45 FT. RISER CASING: I.D. 2" SCH 40 PVC IN. O.D. _____ IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☐ GROUND SURFACE ☐ NOT INDICATED ☒

COMMENTS: PUT MARK ON PVC

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	OBS		
TIME	1:44 DRY ☐ LNAPL	NO SEDIMENT ☐ DNAPL	
FROM MEASURE POINT, IF INDICATED =	27.08 FT. 27.07	____.____ FT. ∅	39.88 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION =	____.____ FT.	____.____ FT.	____.____ FT.

(OFFICE CALCULATION)

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☒ FIRM ☐ HARD ☐

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES AS APPROPRIATE

CHECKED BY _____

DATE _____

EXISTING WELL EVALUATION

DATE 6/5/92 WELL TS3-01

BY TO, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE __ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? Y / N

IS WELL IDENTIFIED SAME AS DATA? Y / N

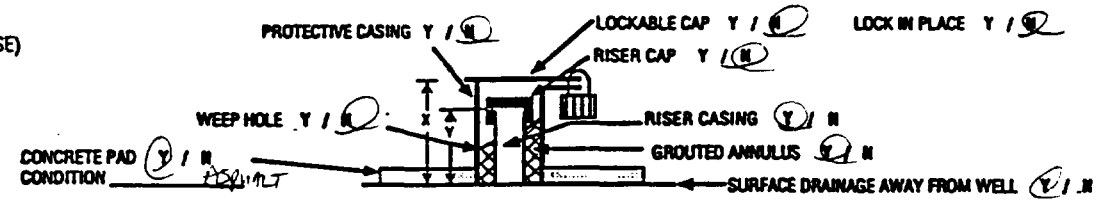
DOES LOCATION VISUALLY CONFORM TO DATA? Y / N

STATUS CORRECT? Y / N

COMMENTS: Well CASING COMPLETELY FULL OF H_2O SURFACE COMPLETION SET IN ASPHALT, SO H_2O DRAINS IN. 1 BOLT DESTROYED

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH (CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / N NUMBER: ___ DAMAGED: Y / N

☒ FLUSH MOUNT: SANITARY SEAL? Y / N CONDITION CASING COMPLETELY FULL OF H_2O

DEDICATED SAMPLING DEVICE IN PLACE? Y / N MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / N

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☐ ROUND ☒ MATERIAL STEEL COATING _____ NONE ☒

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 0.0 FT. PROTECTIVE CASING: I.D. .7 FT / IN. O.D. — IN.

RISER CASING STICK-UP: Y = -0.5 FT. RISER CASING: I.D. .18 IN. FT O.D. .20 IN. FT

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☒ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	OBS		
TIME	11:30		
	DRY ☐ LNAPL	NO SEDIMENT ☐ DNAPL	
FROM MEASURE POINT, IF INDICATED =	39.57 FT. —	___.___ FT. —	49.75 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	___.___ FT.	___.___ FT.	___.___ FT.
FROM GROUND SURFACE =	___.___ FT.	___.___ FT.	___.___ FT.
ELEVATION =	___.___ FT.	___.___ FT.	___.___ FT. (OFFICE CALCULATION)

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☒ FIRM ☐ HARD ☐

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

EXISTING WELL EVALUATION

DATE 6/6/92 WELL TS4-01

BY TC, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE __ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? Y / (N)

DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

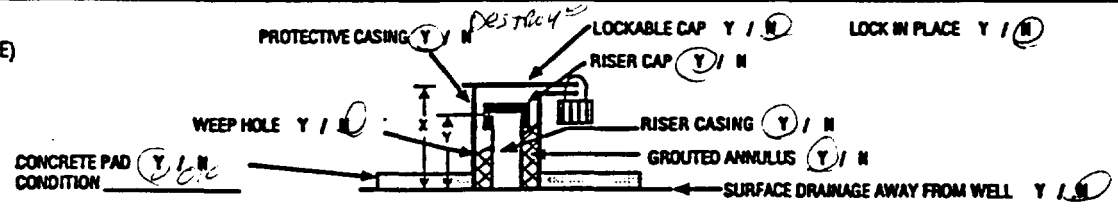
STATUS CORRECT? (Y) / N

COMMENTS: CAP AND SURFACE COMPLETION DESTROYED

NO ODOR

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH
(CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☒ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION DESTROYED, LID CRACKED IN HALF

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☐ ROUND ☐ MATERIAL _____ COATING _____ NONE ☐

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 0.0 FT. PROTECTIVE CASING: I.D. .95 FT IN. O.D. 1.2 FT IN.

RISER CASING STICK-UP: Y = -0.28 FT. RISER CASING: I.D. 4" IN. O.D. .2 FT IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☒ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	O/S		
TIME / DRY	8:22 DRY ☐	NO SEDIMENT ☐	
FROM MEASURE POINT, IF INDICATED =	21.34 FT. —	____.____ FT. —	29.95 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION =	____.____ FT.	____.____ FT.	____.____ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☐ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES AS APPROPRIATE

CHECKED BY _____

DATE _____

EXISTING WELL EVALUATION

DATE 6/8/92 WELL W-18

BY TCO, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE __ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? Y / (N)

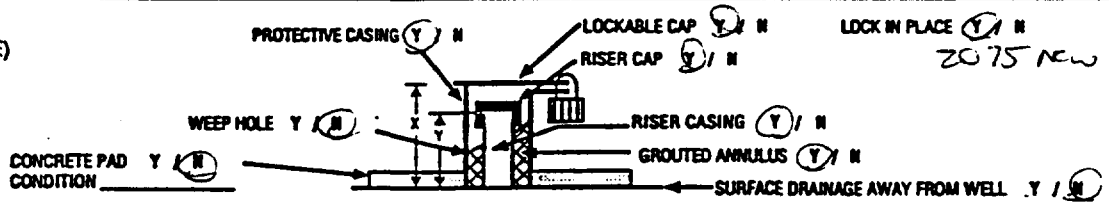
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: FLOATING SINKING PRODUCT.

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH (CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☐ ROUND ☒ MATERIAL STEEL COATING _____ NONE ☐

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 1.10 FT. PROTECTIVE CASING: I.D. .51 IN. O.D. .55 IN.

RISER CASING STICK-UP: Y = 1.09 FT. RISER CASING: 2" PVC SCH 40 I.D. _____ IN. O.D. _____ IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☐ GROUND SURFACE ☐ NOT INDICATED ☒

COMMENTS: PUT MARK ON PVC

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	ORS		
TIME	14:54 DRY ☐ UNABLE	NO SEDIMENT ☐ UNABLE	
FROM MEASURE POINT, IF INDICATED =	27.01 FT. 27.00	____.____ FT. 48.32	48.40 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION =	____.____ FT.	____.____ FT.	____.____ FT.

BOTTOM WELL CONDITIONS: SOFT ☒ MOD. FIRM ☐ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

DATE _____

EXISTING WELL EVALUATION

DATE 6/8/92 WELL W-17

BY TCC, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	_____
TYPE WELL (TYPE __ WEL):	[ ]	_____
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	_____
(NORTHING):	[ ]	_____
(EASTING):	[ ]	_____
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	_____
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	_____
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	_____
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		_____
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		_____
REF. POINT FOR MEASUREMENT (PMEASURE):		_____
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		_____

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

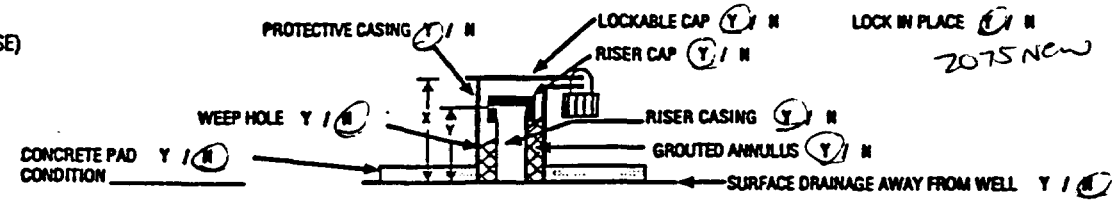
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: _____

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH
(CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☐ ROUND ☒ MATERIAL STEEL COATING _____ NONE ☒

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 1.25 FT. PROTECTIVE CASING: I.D. .51 FT IN. O.D. .55 FT IN.

RISER CASING STICK-UP: Y = 1.05 FT. RISER CASING: I.D. 3" SCH 40 PVC IN. O.D. _____ IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☐ GROUND SURFACE ☐ NOT INDICATED ☒

COMMENTS: PUT MARK ON PVC

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	ORS		
TIME	15:08 DRY ☐	DRY NO SEDIMENT ☐	
FROM MEASURE POINT, IF INDICATED =	27.34 FT.	27.395 FT.	DRY 49.53 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION =	____.____ FT.	____.____ FT.	____.____ FT.

(OFFICE CALCULATION)

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☐ FIRM ☐ HARD ☐

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED
[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

EXISTING WELL EVALUATION

DATE 6/9/92 WELL ISS-01

BY TCO, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE __ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

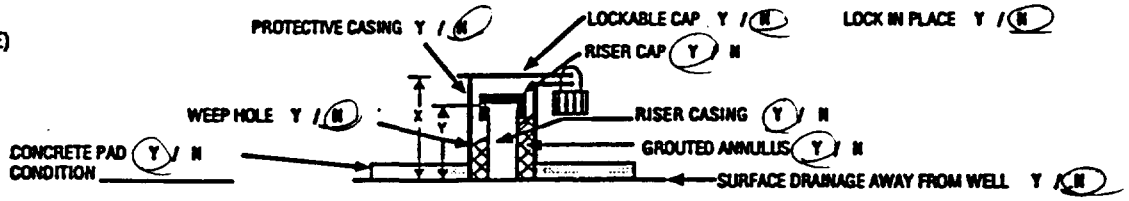
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: NEEDS 1 MORE BOLT

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH
(CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☒ FLUSH MOUNT: SANITARY SEAL? (Y) / N CONDITION WATER INSIDE CASING

DEDICATED SAMPLING DEVICE IN PLACE? Y / N MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / N

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☐ ROUND ☒ MATERIAL STEEL COATING _____ NONE ☒

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 0.0 FT. PROTECTIVE CASING: I.D. 1.0 FT IN. O.D. 1.2 FT IN.

RISER CASING STICK-UP: Y = -0.43 FT. RISER CASING: I.D. .18 FT IN. O.D. .2 FT IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☐ GROUND SURFACE ☐ NOT INDICATED ☒

COMMENTS: PUT MARK ON PVC CASING

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	ORS		
TIME	11:20 DRY ☐	LNAPL NO SEDIMENT ☐	ANAPL
FROM MEASURE POINT, IF INDICATED =	49.21 FT.	____.____ FT.	59.73 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION =	____.____ FT.	____.____ FT.	____.____ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☒ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED
[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

EXISTING WELL EVALUATION

DATE 6/8/92 WELL IS6-01

BY TCO, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE __ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

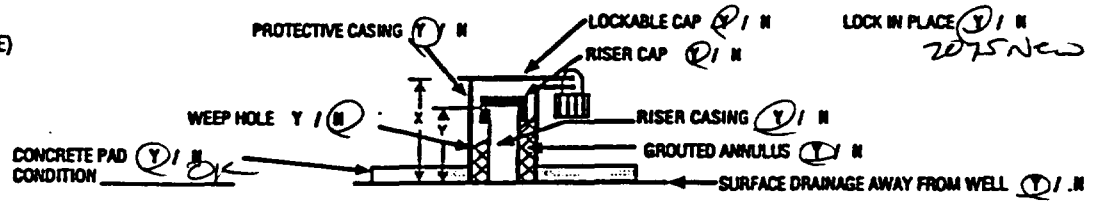
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: _____

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH
(CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y (N) CONDITION NO RUBBER SEAL

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / N

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☒ ROUND ☐ MATERIAL _____ COATING _____ NONE ☐

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = +0.15 FT. PROTECTIVE CASING: I.D. 1.47 FT IN. O.D. .5 FT IN.

RISER CASING STICK-UP: Y = -0.8 FT. RISER CASING: I.D. 2" SCH 40 IN. O.D. _____ IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☐ GROUND SURFACE ☐ NOT INDICATED ☒

COMMENTS: PT MARK ON PVC

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	ORS		
TIME	11:40 DRY ☐	NO SEDIMENT ☐	
FROM MEASURE POINT, IF INDICATED =	49.31 FT.	____.____ FT.	59.45 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION =	____.____ FT.	____.____ FT.	____.____ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☒ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED
[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

EXISTING WELL EVALUATION

DATE 3/7/12 WELL [illegible]

BY [illegible] SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE __ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? Y / N

IS WELL IDENTIFIED SAME AS DATA? Y / N

DOES LOCATION VISUALLY CONFORM TO DATA? Y / N

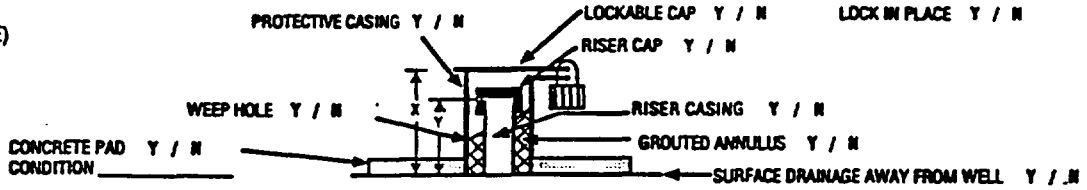
STATUS CORRECT? Y / N

COMMENTS: WELL NOT FOUND

[illegible]

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH
(CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / N NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / N CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / N MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / N

RISER CASING MATERIAL: SS ☐ PVC ☐ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☐

PROTECTIVE CASING: SQUARE ☐ ROUND ☐ MATERIAL _____ COATING _____ NONE ☐

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = _____._____ FT. PROTECTIVE CASING: I.D. _____ IN. O.D. _____ IN.

RISER CASING STICK-UP: Y = _____._____ FT. RISER CASING: I.D. _____ IN. O.D. _____ IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☐ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	_____		
TIME / DRY	_____:_____ DRY ☐	NO SEDIMENT ☐	
FROM MEASURE POINT, IF INDICATED =	_____._____ FT.	_____._____ FT.	_____._____ FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	_____._____ FT.	_____._____ FT.	_____._____ FT.
FROM GROUND SURFACE =	_____ FT.	_____ FT.	_____ FT.
ELEVATION =	_____ FT.	_____ FT.	_____ FT.

(OFFICE CALCULATION)

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☐ FIRM ☐ HARD ☐

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED
[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

EXISTING WELL EVALUATION

DATE 6/3/92 WELL IS8-C1

BY TLC, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE __ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

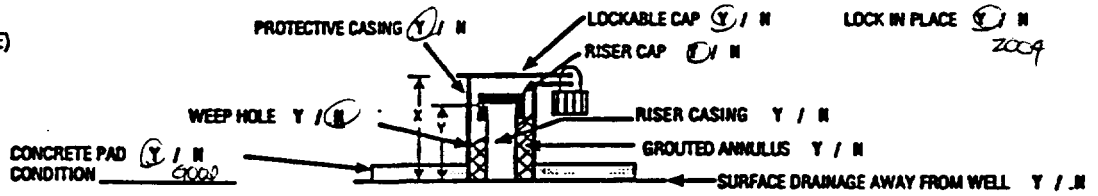
DOES LOCATION VISUALLY CONFORM TO DATA? Y / (N)

STATUS CORRECT? (Y) / N

COMMENTS: WELL LOCATED ON SOUTHWEST CORNER OF BUILDING

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH
(CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? (Y) N NUMBER: 3 DAMAGED: Y / (N)

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / N

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☒ ROUND ☐ MATERIAL STEEL COATING PAINT NONE

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 3.19 FT. PROTECTIVE CASING: I. D. _____ IN. O.D. _____ IN.

RISER CASING STICK-UP: Y = 2.68 FT. RISER CASING: I. D. _____ IN. O.D. _____ IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☒ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	ORS		
TIME / DRY	16:00 ☐ FLOATERS	NO SEDIMENT ☐ SINKERS	
FROM MEASURE POINT, IF INDICATED =	32.79 FT.	____.____ FT.	37.55 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION =	____.____ FT.	____.____ FT.	____.____ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☒ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED
[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

EXISTING WELL EVALUATION

DATE 6/3/92 WELL SP4-C1

BY JOO : BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	_____
TYPE WELL (TYPE _ WEL):	[ ]	_____
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	_____
(NORTHING):	[ ]	_____
(EASTING):	[ ]	_____
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	_____
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[137.36]	_____
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	_____
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		_____
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		_____
REF. POINT FOR MEASUREMENT (PMEASURE):		_____
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		_____

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

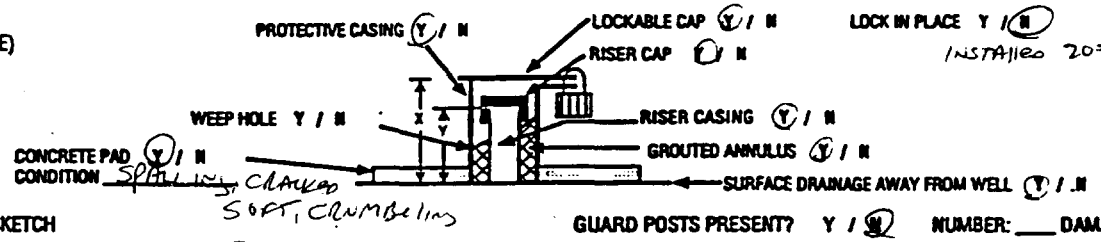
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: _____

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH (CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☐

PROTECTIVE CASING: SQUARE ☒ ROUND ☐ MATERIAL STEEL COATING _____ NONE ☐

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 2.95 FT. PROTECTIVE CASING: I. D. 4.97 IN. O.D. 5 IN.

RISER CASING STICK-UP: Y = 2.70 FT. RISER CASING: I. D. 2 IN SCH 40 PVC IN. O.D. _____ IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☒ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	ORS		
TIME / DRY / NO SEDIMENT	15:00 DRY ☐ FLOATERS	NO SEDIMENT ☐ SINKERS	
FROM MEASURE POINT, IF INDICATED =	5.14 FT. —	_____ FT. —	24.35 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	_____ FT.	_____ FT.	_____ FT.
FROM GROUND SURFACE =	_____ FT.	_____ FT.	_____ FT.
ELEVATION =	_____ FT.	_____ FT.	_____ FT.

BOTTOM WELL CONDITIONS: SOFT ☒ MOD. FIRM ☐ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

EXISTING WELL EVALUATION

DATE 6/3/12 WELL SP4-02

BY TCO, BJ SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE __ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[131.27]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

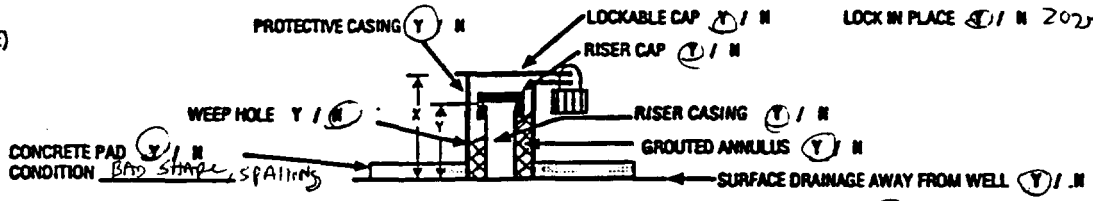
DOES LOCATION VISUALLY CONFORM TO DATA? Y / (N)

STATUS CORRECT? (Y) / N

COMMENTS: MONUMENT IN POOR SHAPE, NEAR SURFACE H_2O, NFSPS SAND IN WELL ANNULAS

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH
(CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☐ ROUND ☐ MATERIAL _____ COATING _____ NONE ☒

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 3.08 FT. PROTECTIVE CASING: I.D. .47 FT IN. O.D. .5 FT IN.
(2IN SCH 40 PVC)

RISER CASING STICK-UP: Y = 2.77 FT. RISER CASING: I.D. _____ IN. O.D. _____ IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☒ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	ORS		
TIME / DRY	15:09 DRY ☐ MOATING	NO SEDIMENT ☐ SINKING	
FROM MEASURE POINT, IF INDICATED =	5.38 FT.	___.___ FT.	27.27 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	___.___ FT.	___.___ FT.	___.___ FT.
FROM GROUND SURFACE =	___.___ FT.	___.___ FT.	___.___ FT.
ELEVATION =	___.___ FT.	___.___ FT.	___.___ FT.

BOTTOM WELL CONDITIONS: SOFT ☒ MOD. FIRM ☒ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

[ ] EXISTING DATA FROM _____ DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

EXISTING WELL EVALUATION

DATE 6/3/92 WELL SP4-03

BY TCO, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	_____
TYPE WELL (TYPE__WEL):	[ ]	_____
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	_____
(NORTHING):	[ ]	_____
(EASTING):	[ ]	_____
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	_____
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[173.67]	_____
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND_ELV):	[ ]	_____
TOP OF PROT. CASING ELV., FT. (TOP_ELV):		_____
TOP OF RISER CASING ELV., FT. (TOC_ELV):		_____
REF. POINT FOR MEASUREMENT (PMEASURE):		_____
MEASURE POINT ELEVATION, FT. (MPT_ELV):		_____

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

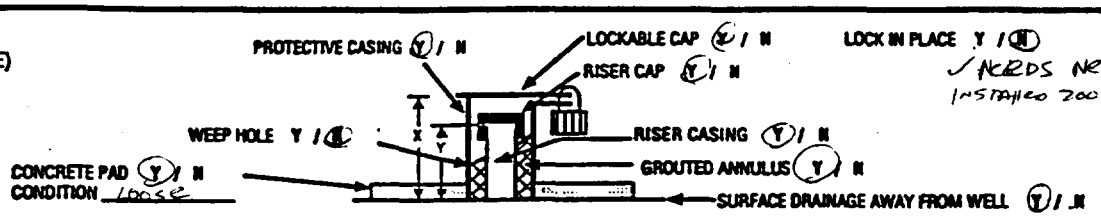
STATUS CORRECT? (Y) / N

COMMENTS: WCH WAS NOT LOCKED

CEMENT HAS FROST HEAVE, LOOSE SURFACE COMPLETION

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH (CIRCLE RESPONSE)



NEEDS NEW LOCK INSTALLED 2009

☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / N NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☒ ROUND ☐ MATERIAL _____ COATING _____ NONE ☒

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 3.15 FT. PROTECTIVE CASING: I.D. .51 IN. O.D. .55 IN.

RISER CASING STICK-UP: Y = 2.57 FT. RISER CASING: I.D. _____ IN. O.D. _____ IN.

2" SCH 40 PVC

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☒ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	OBS		
TIME / DRY	13:45 ☐	NO SEDIMENT ☐	
	NO FLOATERS	NO SINKERS	
FROM MEASURE POINT, IF INDICATED =	39.15 FT.	____.____ FT.	57.50 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION =	____.____ FT.	____.____ FT.	____.____ FT.

(OFFICE CALCULATION)

BOTTOM WELL CONDITIONS: SOFT ☒ MOD. FIRM ☐ FIRM ☐ HARD ☐

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

EXISTING WELL EVALUATION

DATE 6/3/92 WELL GW 4A

BY TCC, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE __ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[139.38]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

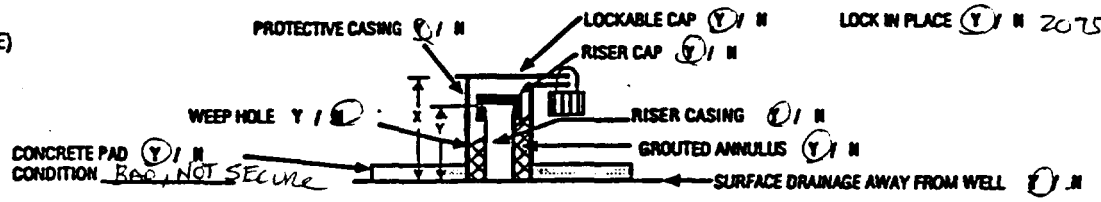
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: _____

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH (CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / N CANT TELL

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☐ ROUND ☒ MATERIAL _____ COATING _____ NONE ☒

COMMENTS: CASING LID DOES NOT FIT OVER PVC/ RISER CAP

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 4.1 FT. PROTECTIVE CASING: I.D. 5.1 IN. FT O.D. 5.5 IN. FT

RISER CASING STICK-UP: Y = 4.15 FT. RISER CASING: I.D. .16 IN. FT O.D. .18 IN. FT

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☒ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: STEEL CASING NOT SECURE TO GROUND

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	ORS FLOATERS		
TIME / DRY	14:49 ☐	NO SEDIMENT ☐	
FROM MEASURE POINT, IF INDICATED =	6.08 FT.	____.____ FT.	13.4 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION =	____.____ FT.	____.____ FT.	____.____ FT.

BOTTOM WELL CONDITIONS: SOFT ☒ MOD. FIRM ☐ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES AS APPROPRIATE

CHECKED BY _____

DATE _____

EXISTING WELL EVALUATION

DATE 6/3/92 WELL W-19

BY JCO, BT SERIAL NO.

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE __ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[137.03]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

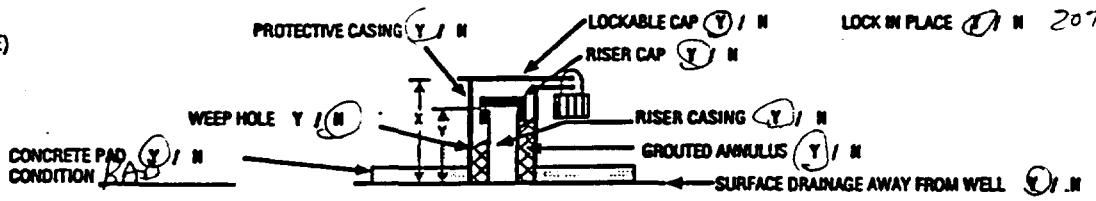
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: SURFACE SEAL NOT WELL GRADED, SCREEN MATERIAL ABOVE WATER TABLE

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON:

WELL FINISH (CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE:

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? (Y) / N

RISER CASING MATERIAL: SS ☐ PVC ☐ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): NONE ☒

PROTECTIVE CASING: SQUARE ☐ ROUND ☒ MATERIAL COATING NONE ☒

COMMENTS: CASING CAP DOES NOT FIT OVER PVC RISER CAP

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 1.4 FT. PROTECTIVE CASING: I.D. .5 FT IN. O.D. .55 FT IN.

RISER CASING STICK-UP: Y = 1.98 FT. RISER CASING: I.D. 2IN SCHEDULE .16 IN O.D. 2.0 IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☒ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: SCREEN MATL

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	OBS	FLOATING	
TIME	14:31 DRY ☐	NO SEDIMENT ☐	
FROM MEASURE POINT, IF INDICATED =	2.87 FT.	___.___ FT.	23.92 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	___.___ FT.	___.___ FT.	___.___ FT.
FROM GROUND SURFACE =	___.___ FT.	___.___ FT.	___.___ FT.
ELEVATION =	___.___ FT.	___.___ FT.	___.___ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☒ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS:

*OPTIONAL BASED ON RI/FS NEED

[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY ___ DATE

EXISTING WELL EVALUATION

DATE 6/4/92 WELL SP-01

BY TCC, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE __ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[100.69]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

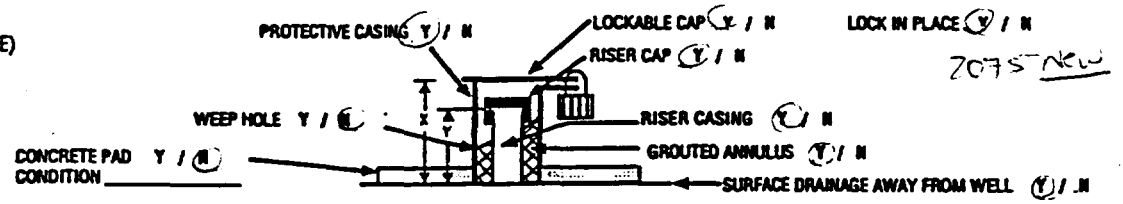
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: _____

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH
(CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☒ ROUND ☐ MATERIAL _____ COATING _____ NONE ☒

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 3.17 FT. PROTECTIVE CASING: I.D. .47 IN. O.D. .5 IN.

RISER CASING STICK-UP: Y = 2.87 FT. RISER CASING: I.D. _____ IN. O.D. _____ IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☐ GROUND SURFACE ☐ NOT INDICATED ☒

COMMENTS: PUT MARK ON PVC CASING FOR MEASURING PT

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	OPS		
TIME / DRY	16:07 ☐ LNAPL	NO SEDIMENT ☐	DNAPL TD
FROM MEASURE POINT, IF INDICATED =	8.08 FT.	____.____ FT.	~ 43.15 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION =	____.____ FT.	____.____ FT.	____.____ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☐ FIRM ☒ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

DATE _____

EXISTING WELL EVALUATION

DATE 6/4/92 WELL SP1-02

BY TC, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE __ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[138.34]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

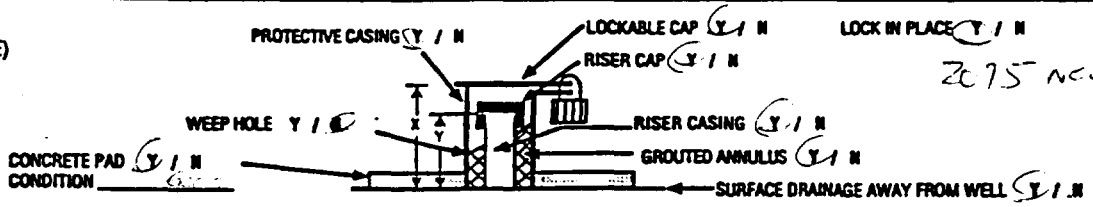
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: _____

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH
(CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☒ ROUND ☐ MATERIAL STEEL COATING PAINT NONE ☐

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 3.36 FT. PROTECTIVE CASING: I.D. .47 FT IN. O.D. .50 FT IN.

RISER CASING STICK-UP: Y = 3.03 FT. RISER CASING: I.D. _____ IN. O.D. _____ IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☒ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	CBS		
TIME	16:19 DRY ☐	NO SEDIMENT ☐	
FROM MEASURE POINT, IF INDICATED =	33.95 FT. LNAPL NC	____.____ FT. DNAPL NO	50.45 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION =	____.____ FT.	____.____ FT.	____.____ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☐ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED
[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____ DATE _____

EXISTING WELL EVALUATION

DATE 6/3/92 WELL SPZ 16-01

BY TCC, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE __ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[155.42]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

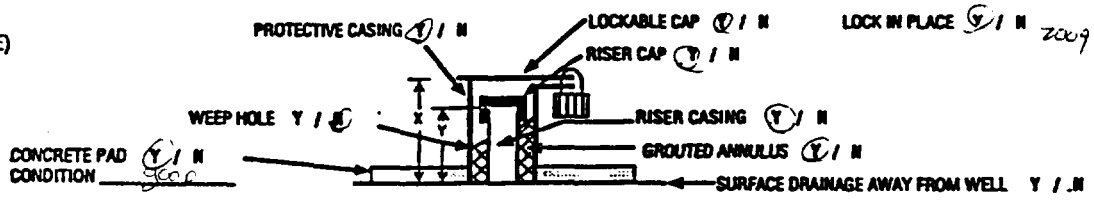
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: IN GOOD LOCATION

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH (CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? (Y) / N NUMBER: 4 DAMAGED: Y / (N)

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☒ ROUND ☐ MATERIAL _____ COATING _____ NONE ☒

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 2.73 FT. PROTECTIVE CASING: I.D. 5.1 IN. O.D. 6.55 IN.

RISER CASING STICK-UP: Y = 2.43 FT. RISER CASING: I.D. 3" SCH 40 PVC IN. O.D. _____ IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☒ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	ORS		
TIME	16:10 DRY ☐	NO SEDIMENT ☐	
FROM MEASURE POINT, IF INDICATED =	49.67 FT. NO FLOATERS	_____ FT. SINKERS	53.00 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	_____ FT.	_____ FT.	_____ FT.
FROM GROUND SURFACE =	_____ FT.	_____ FT.	_____ FT.
ELEVATION =	_____ FT.	_____ FT.	_____ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☐ FIRM ☒ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

DATE _____

EXISTING WELL EVALUATION

DATE 6/4/12 WELL SP2/6-C2

BY TCC, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE __ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[140.91]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

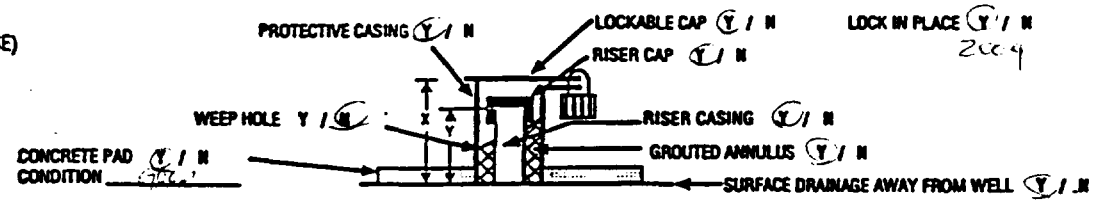
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: NEW WELL

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH (CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☐

PROTECTIVE CASING: SQUARE ☒ ROUND ☐ MATERIAL STEEL COATING _____ NONE ☒

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 3.08 FT. PROTECTIVE CASING: I.D. .47 FT IN. O.D. .5 FT IN.

RISER CASING STICK-UP: Y = 2.93 FT. RISER CASING: I.D. 2 SCH 40 PVC IN. O.D. _____ IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☒ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	GRS		
TIME	11:35		
	DRY ☐ FLOATS	NO SEDIMENT ☐ SINKS	
FROM MEASURE POINT, IF INDICATED =	31.45 FT. —	____.____ FT. —	47.86 TC FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION =	____.____ FT.	____.____ FT.	____.____ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☒ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: SAND

*OPTIONAL BASED ON RI/FS NEED

[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

EXISTING WELL EVALUATION

DATE 6/4/92 WELL SD2/[illegible]-C-5

BY TCC, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	_____
TYPE WELL (TYPE __ WEL):	[ ]	_____
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	_____
(NORTHING):	[ ]	_____
(EASTING):	[ ]	_____
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	_____
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[149.51]	_____
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	_____
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		_____
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		_____
REF. POINT FOR MEASUREMENT (PMEASURE):		_____
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		_____

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

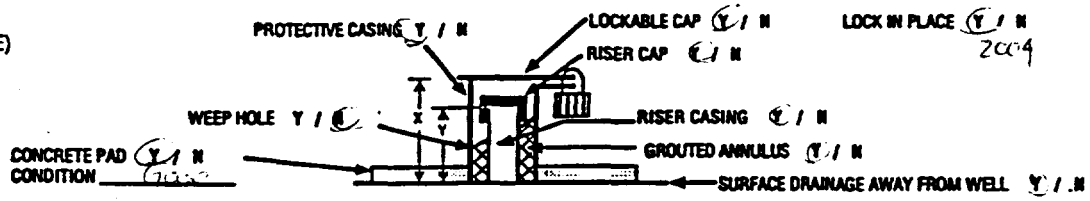
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: _____

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH
(CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☒ ROUND ☐ MATERIAL _____ COATING PAINT NONE ☐

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 2.77 FT. PROTECTIVE CASING: I.D. .475 FT IN. O.D. .5 FT IN.

RISER CASING STICK-UP: Y = 2.57 FT. RISER CASING: I.D. 2" Sch 40 PVC IN. O.D. _____ IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☒ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	ORS		
TIME	11:30 DRY ☐ FLOATERS	NO SEDIMENT ☐ SINKERS	
FROM MEASURE POINT, IF INDICATED =	37.13 FT.	____.____ FT.	52.36 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION =	____.____ FT.	____.____ FT.	____.____ FT.

(OFFICE CALCULATION)

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☒ FIRM ☐ HARD ☐

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED
[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

EXISTING WELL EVALUATION

DATE 6/4/12 WELL SP2/6-04

BY JCC, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE _ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[143.21]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

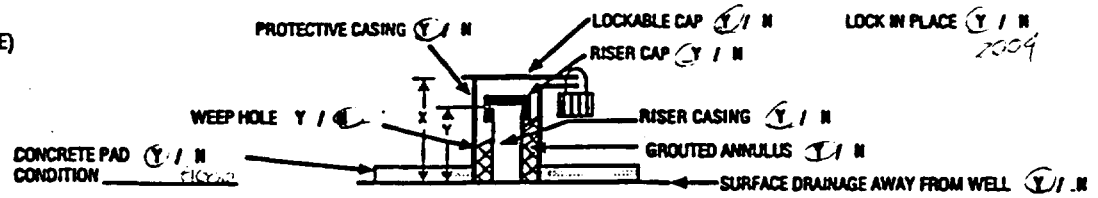
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: DRY well, some WET SILT ON BOTTOM

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH
(CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☐

PROTECTIVE CASING: SQUARE ☒ ROUND ☐ MATERIAL _____ COATING _____ NONE ☐

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 2.58 FT. PROTECTIVE CASING: I.D. 47 IN. O.D. .5 IN.

RISER CASING STICK-UP: Y = 1.48 2.57 FT. RISER CASING: I.D. 2" SCH 40 IN. O.D. _____ IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☐ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	CBS		
TIME	___:___ DRY ☒ FLOATERS	NO SEDIMENT ☐ SINKERS	
FROM MEASURE POINT, IF INDICATED =	___.___ FT.	___.___ FT.	3a.98 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	___.___ FT.	___.___ FT.	___.___ FT.
FROM GROUND SURFACE =	___.___ FT.	___.___ FT.	___.___ FT.
ELEVATION =	___.___ FT.	___.___ FT.	___.___ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☒ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: DRY

*OPTIONAL BASED ON RI/FS NEED
[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

EXISTING WELL EVALUATION

DATE 6/3/92 WELL SP26-05

BY TCC, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE __ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[138.59]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

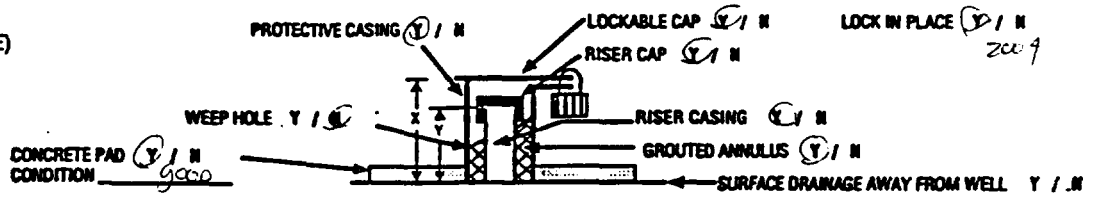
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: WELL IN LOW FOR PORTION OF AREA X RR TRACKS, CANNOT DRIVE TO

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH
(CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☒ ROUND ☐ MATERIAL _____ COATING _____ NONE ☒

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 2.93 FT. (2 FT 11 IN)

RISER CASING STICK-UP: Y = 2.32 FT. (2 FT 3 IN)

PROTECTIVE CASING: I.D. .51 FT IN. O.D. .55 FT IN. (2" SCH 40 PVC)

RISER CASING: I.D. _____ IN. O.D. _____ IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☒ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	ORS		
TIME / DRY	16:20 ☐	NO SEDIMENT ☐	NO SINKERS
FROM MEASURE POINT, IF INDICATED =	32.00 FT. NO FLOATERS	___.___ FT.	49.10 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	___.___ FT.	___.___ FT.	___.___ FT.
FROM GROUND SURFACE =	___.___ FT.	___.___ FT.	___.___ FT.
ELEVATION =	___.___ FT.	___.___ FT.	___.___ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☒ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED
[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____ DATE _____

EXISTING WELL EVALUATION

DATE 6/4/92 WELL G-1-UA

BY TC, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	_____
TYPE WELL (TYPE __ WEL):	[ ]	_____
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	_____
(NORTHING):	[ ]	_____
(EASTING):	[ ]	_____
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	_____
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[140.27]	_____
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	_____
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		_____
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		_____
REF. POINT FOR MEASUREMENT (PMEASURE):		_____
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		_____

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

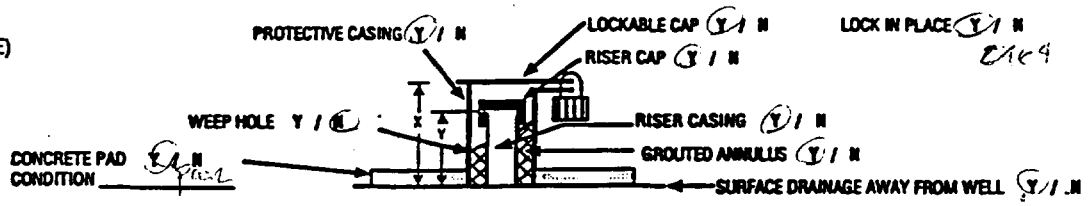
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: HIGH AND DRY

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH
(CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☐ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☐ ROUND ☒ MATERIAL _____ COATING _____ NONE ☒

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 2.18 FT. PROTECTIVE CASING: I.D. .5 FT IN. O.D. .55 FT IN.

RISER CASING STICK-UP: Y = 2.0 FT. RISER CASING: I.D. 2" SCH 40 IN. O.D. _____ IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☒ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	OPS		
TIME	11:11 DRY ☐	SINKERS NO SEDIMENT ☐	FLOATING
FROM MEASURE POINT, IF INDICATED =	30.91 FT.	_____ FT.	31.50 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	_____ FT.	_____ FT.	_____ FT.
FROM GROUND SURFACE =	FT.	FT.	FT.
ELEVATION =	FT.	FT.	FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☐ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED
( ) = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

EXISTING WELL EVALUATION

DATE 6/4/92 WELL 6-16

BY TCC, BI SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE __ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[140.81]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

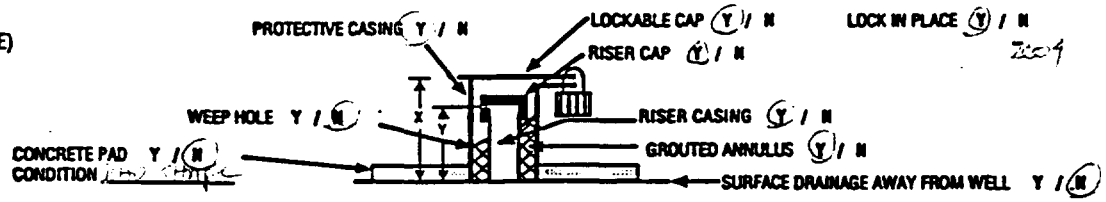
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: _____

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH
(CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☐ ROUND ☒ MATERIAL STEEL COATING PAINT NONE ☐

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 1.5 FT. PROTECTIVE CASING: I.D. .51 IN. O.D. .55 IN.

RISER CASING STICK-UP: Y = 1.2 FT. RISER CASING: I.D. 2" sch 40 PVC IN. O.D. _____ IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☒ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	OES		
TIME / DRY ☐	11:03 / FLOATERS	NO SEDIMENT ☐ / SINKERS	
FROM MEASURE POINT, IF INDICATED =	31.30 FT.	____.____ FT.	56.0 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION =	____.____ FT.	____.____ FT.	____.____ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☒ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED
[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

EXISTING WELL EVALUATION

DATE 6/3/92 WELL NS3-02

BY _____ SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE__WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[121.13]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND_ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP_ELV):		
TOP OF RISER CASING ELV., FT. (TOC_ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT_ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

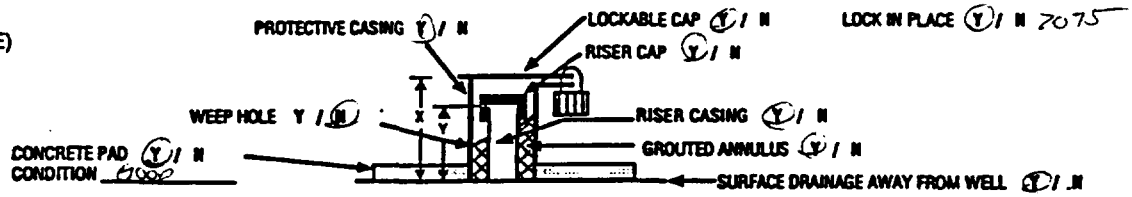
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: IN GOOD SHAPE

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH
(CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? (Y) / N NUMBER: ___ DAMAGED: (Y) / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☒ ROUND ☐ MATERIAL _____ COATING _____ NONE ☒

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 3.08 FT. PROTECTIVE CASING: I.D. _____ IN. O.D. 6" SQUARE IN.

RISER CASING STICK-UP: Y = 2.63 FT. RISER CASING: I.D. 2" SCH 40 PVC IN. O.D. _____ IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☒ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	ORS		
TIME / DRY	15:20 DRY ☐	NO SEDIMENT ☐ SINKS	
FROM MEASURE POINT, IF INDICATED =	1.20 FT. FLOATS	___.___ FT.	37.05 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	___.___ FT.	___.___ FT.	___.___ FT.
FROM GROUND SURFACE =	___.___ FT.	___.___ FT.	___.___ FT.
ELEVATION =	___.___ FT.	___.___ FT.	___.___ FT.

BOTTOM WELL CONDITIONS: SOFT ☒ MOD. FIRM ☐ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED
[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

EXISTING WELL EVALUATION

DATE 6/3/92 WELL NS3-03

BY TCO, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE __ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[111.92]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

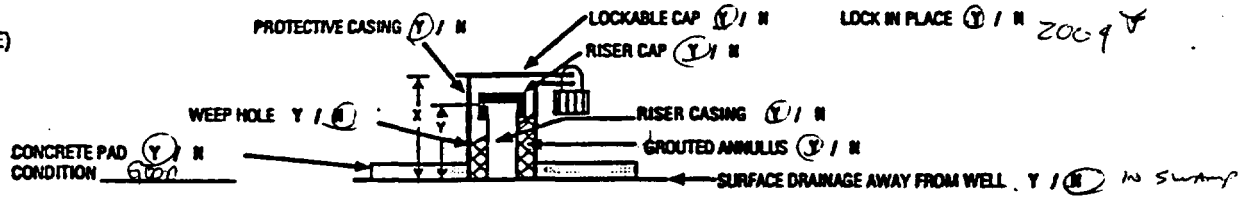
COMMENTS: LOCATED IN SWAMP

WATER IS CLOSE TO SURFACE, MAY FREEZE IN WINTER

NEEDS SAND : NEW CAP (PVC

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH
(CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☐ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☐ ROUND ☐ MATERIAL _____ COATING _____ NONE ☒

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 3.88 FT. PROTECTIVE CASING: I.D. .97 IN. O.D. .5 IN. (6" SQUARE FT)

RISER CASING STICK-UP: Y = 3.86 FT. RISER CASING: I.D. _____ IN. O.D. _____ IN. (2" SCH 40 PVC)

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☒ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	ORS	FLOATERS	
TIME / DRY	15:31 DRY ☐	NO SEDIMENT ☐	SINKERS
FROM MEASURE POINT, IF INDICATED =	3.14 FT.	___.___ FT.	17.61 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	___.___ FT.	___.___ FT.	___.___ FT.
FROM GROUND SURFACE =	___.___ FT.	___.___ FT.	___.___ FT.
ELEVATION =	___.___ FT.	___.___ FT.	___.___ FT.

BOTTOM WELL CONDITIONS: SOFT ☒ MOD. FIRM ☐ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED
[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

EXISTING WELL EVALUATION

DATE 6/3/92 WELL NS3-06

BY TO, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	_____
TYPE WELL (TYPE __ WEL):	[ ]	_____
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	_____
(NORTHING):	[ ]	_____
(EASTING):	[ ]	_____
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	_____
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	_____
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	_____
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		_____
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		_____
REF. POINT FOR MEASUREMENT (PMEASURE):		_____
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		_____

WAS WELL FOUND? Y / N

IS WELL IDENTIFIED SAME AS DATA? Y / N

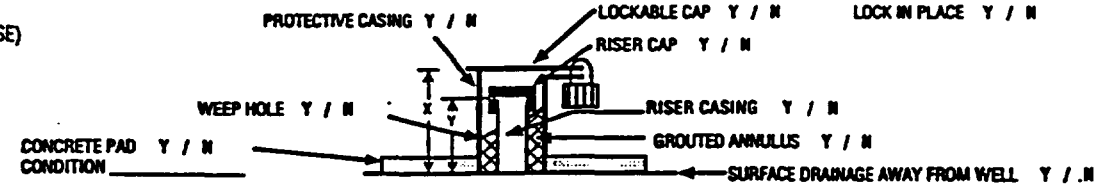
DOES LOCATION VISUALLY CONFORM TO DATA? Y / N

STATUS CORRECT? Y / N

COMMENTS: WELL NOT FOUND

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH
(CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / N NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / N CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / N MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / N

RISER CASING MATERIAL: SS ☐ PVC ☐ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☐

PROTECTIVE CASING: SQUARE ☐ ROUND ☐ MATERIAL _____ COATING _____ NONE ☐

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = _____._____ FT. PROTECTIVE CASING: I. D. _____ IN. O.D. _____ IN.

RISER CASING STICK-UP: Y = _____._____ FT. RISER CASING: I. D. _____ IN. O.D. _____ IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☐ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	_____		
TIME / DRY	_____ : _____ DRY ☐	NO SEDIMENT ☐	
FROM MEASURE POINT, IF INDICATED =	_____._____ FT.	_____._____ FT.	_____._____ FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	_____._____ FT.	_____._____ FT.	_____._____ FT.
FROM GROUND SURFACE =	_____._____ FT.	_____._____ FT.	_____._____ FT.
ELEVATION =	_____._____ FT.	_____._____ FT.	_____._____ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☐ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

[ ] = EXISTING DATA FROM _____ DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

EXISTING WELL EVALUATION

DATE 6/9/92 WELL 23-C1

BY _____ SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE__WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND_ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP_ELV):		
TOP OF RISER CASING ELV., FT. (TOC_ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT_ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

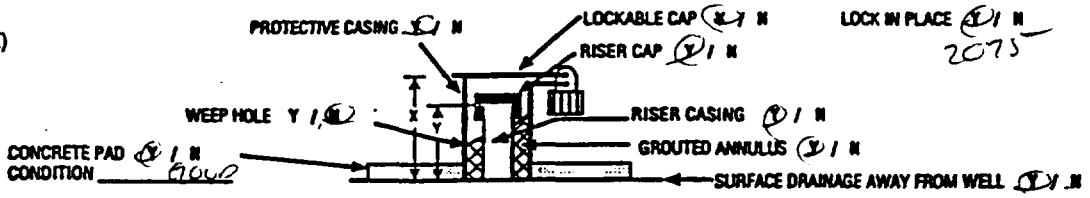
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: GOOD

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH (CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☒ ROUND ☐ MATERIAL STEEL COATING _____ NONE ☒

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 2.07 FT. PROTECTIVE CASING: I.D. .47 FT IN. O.D. .5 FT IN.

RISER CASING STICK-UP: Y = 1.10 FT. RISER CASING: I.D. .18 FT IN. O.D. .2 FT IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☒ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	CBS		
TIME / DRY ☐	17:40 / LNAPL	NO SEDIMENT ☐ / DNAPL	
FROM MEASURE POINT, IF INDICATED =	29.73 FT.	____.____ FT. 60.02	60.18 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION =	____.____ FT.	____.____ FT.	____.____ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☐ FIRM ☒ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

EXISTING WELL EVALUATION

DATE 6/9/92 WELL D3-02

BY TCO, GT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE__WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND_ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP_ELV):		
TOP OF RISER CASING ELV., FT. (TOC_ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT_ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

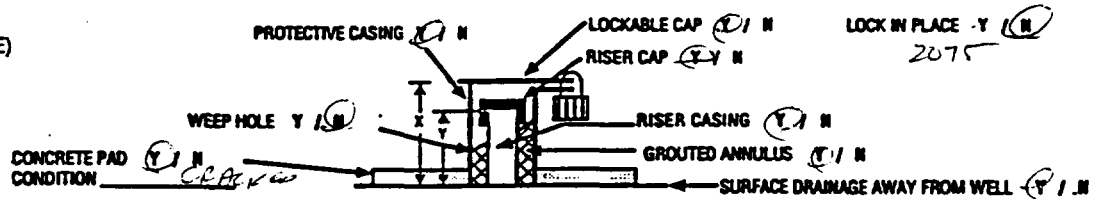
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: WELL NOT LOCKED UPON ARRIVAL, PUT LOCK ON IT. STICK OR SOMETHING BLOCKING

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH
(CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? (Y) / (N) NUMBER: ___ DAMAGED: Y / N

TWO

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☒ ROUND ☐ MATERIAL STEEL COATING _____ NONE ☒

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 2.05 FT. PROTECTIVE CASING: I.D. .47 FT IN. O.D. .5 FT IN.

RISER CASING STICK-UP: Y = 1.68 FT. RISER CASING: I.D. .18 FT IN. O.D. .2 FT IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☐ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	ONS		
TIME / DRY	18:07 DRY ☒	NO SEDIMENT ☐	
FROM MEASURE POINT, IF INDICATED =	____.____ FT.	____.____ FT.	18.15 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION =	____.____ FT.	____.____ FT.	____.____ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☐ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED
[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

EXISTING WELL EVALUATION

DATE 6/9/92 WELL DB-03

BY TCO, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE __ WELL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? Y / N

IS WELL IDENTIFIED SAME AS DATA? Y / N

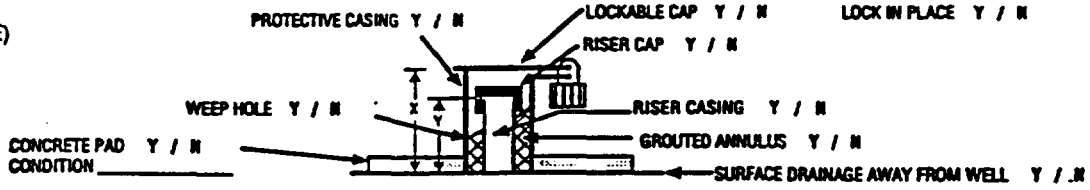
DOES LOCATION VISUALLY CONFORM TO DATA? Y / N

STATUS CORRECT? Y / N

COMMENTS: WELL NOT FOUND

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH
(CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / N NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / N CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / N MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / N

RISER CASING MATERIAL: SS ☐ PVC ☐ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☐

PROTECTIVE CASING: SQUARE ☐ ROUND ☐ MATERIAL _____ COATING _____ NONE ☐

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = _____ . _____ FT. PROTECTIVE CASING: I. D. _____ IN. O.D. _____ IN.

RISER CASING STICK-UP: Y = _____ . _____ FT. RISER CASING: I. D. _____ IN. O.D. _____ IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☐ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	_____		
TIME / DRY	_____ : _____ DRY ☐	NO SEDIMENT ☐	
FROM MEASURE POINT, IF INDICATED =	_____ . _____ FT.	_____ . _____ FT.	_____ . _____ FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	_____ . _____ FT.	_____ . _____ FT.	_____ . _____ FT.
FROM GROUND SURFACE =	_____ . _____ FT.	_____ . _____ FT.	_____ . _____ FT.
ELEVATION =	_____ . _____ FT.	_____ . _____ FT.	_____ . _____ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☐ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED
[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

EXISTING WELL EVALUATION

DATE 6-19-92 WELL K 301

BY TCO, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE __ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? Y / (NP)

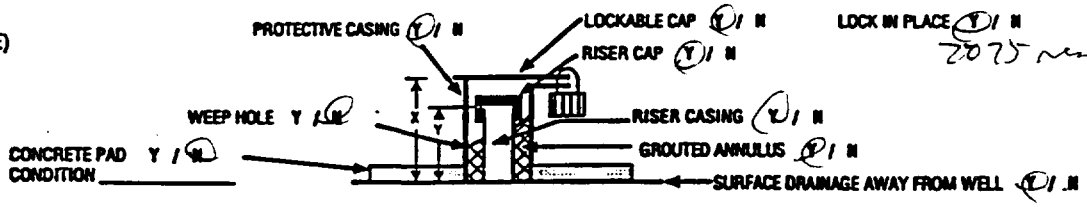
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: _____

WELL ACCESS -- WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH
(CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☐ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☐ ROUND ☒ MATERIAL STEEL COATING _____ NONE ☒

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 2.57 FT. PROTECTIVE CASING: I.D. .42 IN. O.D. .47 IN.

RISER CASING STICK-UP: Y = 2.47 FT. RISER CASING: I.D. .18 IN. O.D. .2 IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☒ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	ORS		
TIME / DRY	09:09 DRY ☐ DNAPL	NO SEDIMENT ☐ DNAPL	ORS PROBE NOT LONG ENOUGH
FROM MEASURE POINT, IF INDICATED =	88.85 FT.	____.____ FT.	____.____ FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION =	____.____ FT.	____.____ FT.	____.____ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☒ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

EXISTING WELL EVALUATION

DATE 6/9/92 WELL F302

BY TCC, DT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE __ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? Y / (N)

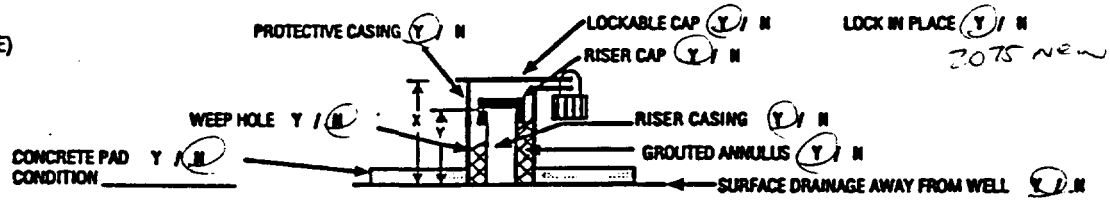
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: _____

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH
(CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☐ ROUND ☒ MATERIAL STEEL COATING _____ NONE ☒

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 2.15 FT. PROTECTIVE CASING: I.D. .42 FT IN. O.D. .47 FT IN.

RISER CASING STICK-UP: Y = 1.45 FT. RISER CASING: I.D. 2" SCH. 40 IN/FT O.D. .2 IN/FT

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☒ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	ORS		
TIME	9:03 DRY ☐	NO SEDIMENT ☐	
FROM MEASURE POINT, IF INDICATED =	69.99 FT.	____.____ FT.	88.95 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION =	____.____ FT.	____.____ FT.	____.____ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☒ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

[ ] = EXISTING DATA FROM _____ DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

EXISTING WELL EVALUATION

DATE 6/5/92 WELL K 303

BY TCO, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE __ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? Y / (N)

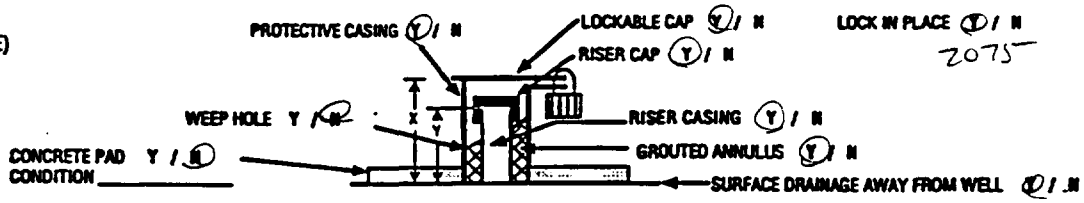
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: _____

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH (CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☐ ROUND ☒ MATERIAL STEEL COATING _____ NONE ☒

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 2.1 FT. PROTECTIVE CASING: I.D. _____ IN. O.D. _____ IN.

RISER CASING STICK-UP: Y = 1.3 FT. RISER CASING: I.D. 2" SCH #0 IN. O.D. _____ IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☒ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	ORS		
TIME	8:54		
	DRY ☐ LNAPL	NO SEDIMENT ☐ DNAPL	ORS PROBE
FROM MEASURE POINT, IF INDICATED =	15.08 FT.	_____ FT.	NOT LONG ENOUGH FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	_____ FT.	_____ FT.	_____ FT.
FROM GROUND SURFACE =	_____ FT.	_____ FT.	_____ FT.
ELEVATION =	_____ FT.	_____ FT.	_____ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☐ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

EXISTING WELL EVALUATION

DATE 6/9/92 WELL K 309

BY TRO, BS SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE __ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? Y / N

IS WELL IDENTIFIED SAME AS DATA? Y / N

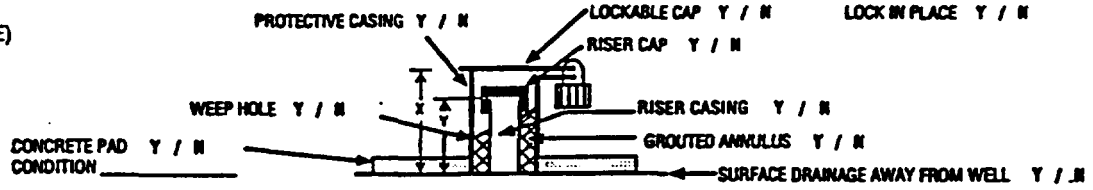
DOES LOCATION VISUALLY CONFORM TO DATA? Y / N

STATUS CORRECT? Y / N

COMMENTS: WELL IN SWAMP, CAN'T GET NEAR

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH
(CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / N NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / N CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / N MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / N

RISER CASING MATERIAL: SS ☐ PVC ☐ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☐

PROTECTIVE CASING: SQUARE ☐ ROUND ☐ MATERIAL _____ COATING _____ NONE ☐

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = _____ . _____ FT. PROTECTIVE CASING: I. D. _____ IN. O.D. _____ IN.

RISER CASING STICK-UP: Y = _____ . _____ FT. RISER CASING: I. D. _____ IN. O.D. _____ IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☐ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	_____		
TIME / DRY	_____ : _____ DRY ☐	NO SEDIMENT ☐	
FROM MEASURE POINT, IF INDICATED =	_____ . _____ FT.	_____ . _____ FT.	_____ . _____ FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	_____ . _____ FT.	_____ . _____ FT.	_____ . _____ FT.
FROM GROUND SURFACE =	_____ . _____ FT.	_____ . _____ FT.	_____ . _____ FT.
ELEVATION =	_____ . _____ FT.	_____ . _____ FT.	_____ . _____ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☐ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

DATE _____

EXISTING WELL EVALUATION

DATE 6/9/97 WELL K-306

BY TCO, bf SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	_____
TYPE WELL (TYPE __ WEL):	[ ]	_____
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	_____
(NORTHING):	[ ]	_____
(EASTING):	[ ]	_____
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	_____
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	_____
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	_____
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		_____
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		_____
REF. POINT FOR MEASUREMENT (PMEASURE):		_____
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		_____

WAS WELL FOUND? Y / N

IS WELL IDENTIFIED SAME AS DATA? Y / N

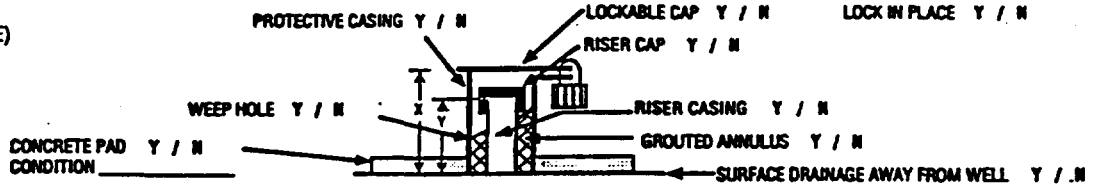
DOES LOCATION VISUALLY CONFORM TO DATA? Y / N

STATUS CORRECT? Y / N

COMMENTS: WELL LOCATED IN SUMMER, WILL ATTEMPT AGAIN IN MID-SUMMER

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH
(CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / N NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / N CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / N MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / N

RISER CASING MATERIAL: SS ☐ PVC ☐ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☐

PROTECTIVE CASING: SQUARE ☐ ROUND ☐ MATERIAL _____ COATING _____ NONE ☐

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = _____._____ FT. PROTECTIVE CASING: I.D. _____ IN. O.D. _____ IN.

RISER CASING STICK-UP: Y = _____._____ FT. RISER CASING: I.D. _____ IN. O.D. _____ IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☐ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	_____		
TIME / DRY ☐	_____:_____	NO SEDIMENT ☐	
FROM MEASURE POINT, IF INDICATED =	_____._____ FT.	_____._____ FT.	_____._____ FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	_____._____ FT.	_____._____ FT.	_____._____ FT.
FROM GROUND SURFACE =	_____._____ FT.	_____._____ FT.	_____._____ FT.
ELEVATION =	_____._____ FT.	_____._____ FT.	_____._____ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☐ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES AS APPROPRIATE

CHECKED BY _____

DATE

EXISTING WELL EVALUATION

DATE 6/9/92 WELL K308

BY TLO, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	_____
TYPE WELL (TYPE __ WEL):	[ ]	_____
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	_____
(NORTHING):	[ ]	_____
(EASTING):	[ ]	_____
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	_____
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	_____
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	_____
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		_____
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		_____
REF. POINT FOR MEASUREMENT (PMEASURE):		_____
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		_____

WAS WELL FOUND? Y / N

IS WELL IDENTIFIED SAME AS DATA? Y / N

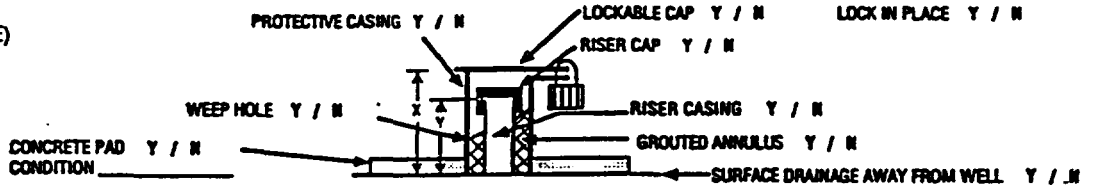
DOES LOCATION VISUALLY CONFORM TO DATA? Y / N

STATUS CORRECT? Y / N

COMMENTS: WELL LOCATED IN SWAMP

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH
(CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / N NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / N CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / N MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / N

RISER CASING MATERIAL: SS ☐ PVC ☐ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☐

PROTECTIVE CASING: SQUARE ☐ ROUND ☐ MATERIAL _____ COATING _____ NONE ☐

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = _____._____ FT. PROTECTIVE CASING: I. D. _____ IN. O.D. _____ IN.

RISER CASING STICK-UP: Y = _____._____ FT. RISER CASING: I. D. _____ IN. O.D. _____ IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☐ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	_____		
TIME / DRY	_____ : _____ DRY ☐	NO SEDIMENT ☐	
FROM MEASURE POINT, IF INDICATED =	_____._____ FT.	_____._____ FT.	_____._____ FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	_____._____ FT.	_____._____ FT.	_____._____ FT.
FROM GROUND SURFACE =	_____._____ FT.	_____._____ FT.	_____._____ FT.
ELEVATION =	_____._____ FT.	_____._____ FT.	_____._____ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☐ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

* OPTIONAL BASED ON RI/FS NEED
[ ] = EXISTING DATA FROM * DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

EXISTING WELL EVALUATION

DATE 6/9/92 WELL K 309

BY TO, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	_____
TYPE WELL (TYPE __ WEL):	[ ]	_____
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	_____
(NORTHING):	[ ]	_____
(EASTING):	[ ]	_____
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	_____
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	_____
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	_____
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		_____
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		_____
REF. POINT FOR MEASUREMENT (PMEASURE):		_____
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		_____

WAS WELL FOUND? Y / N

IS WELL IDENTIFIED SAME AS DATA? Y / N

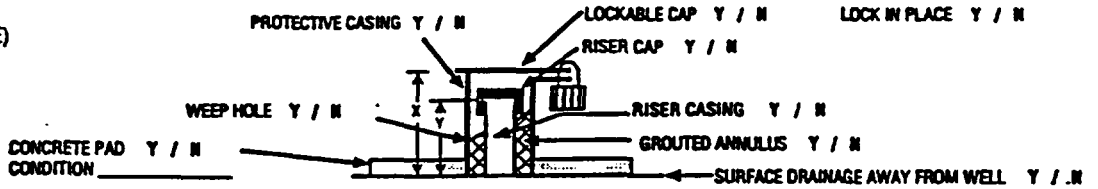
DOES LOCATION VISUALLY CONFORM TO DATA? Y / N

STATUS CORRECT? Y / N

COMMENTS: WELL LOCATED IN SWAMP

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH
(CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / N NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / N CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / N MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / N

RISER CASING MATERIAL: SS ☐ PVC ☐ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☐

PROTECTIVE CASING: SQUARE ☐ ROUND ☐ MATERIAL _____ COATING _____ NONE ☐

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = _____ . _____ FT. PROTECTIVE CASING: I. D. _____ IN. O.D. _____ IN.

RISER CASING STICK-UP: Y = _____ . _____ FT. RISER CASING: I. D. _____ IN. O.D. _____ IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☐ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	_____		
TIME / DRY	_____ : _____ DRY ☐	NO SEDIMENT ☐	
FROM MEASURE POINT, IF INDICATED =	_____ . _____ FT.	_____ . _____ FT.	_____ . _____ FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	_____ . _____ FT.	_____ . _____ FT.	_____ . _____ FT.
FROM GROUND SURFACE =	_____ FT.	_____ FT.	_____ FT.
ELEVATION =	_____ . _____ FT.	_____ . _____ FT.	_____ . _____ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☐ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

EXISTING WELL EVALUATION

DATE 6/9/92 WELL K310

BY JTO, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE __ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? Y / N

IS WELL IDENTIFIED SAME AS DATA? Y / N

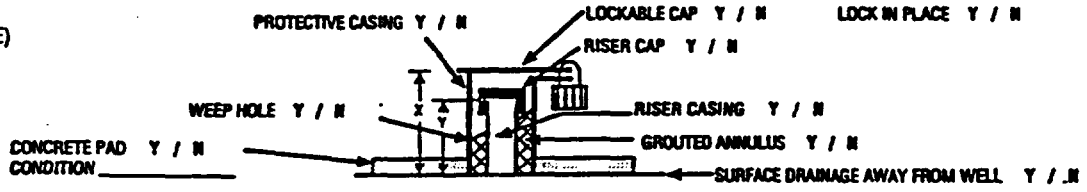
DOES LOCATION VISUALLY CONFORM TO DATA? Y / N

STATUS CORRECT? Y / N

COMMENTS: WELL LOCATED IN SUMP

WELL ACCESS WELL NOT ACCESSIBLE ☑ REASON: _____

WELL FINISH
(CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / N NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / N CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / N MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / N

RISER CASING MATERIAL: SS ☐ PVC ☐ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☐

PROTECTIVE CASING: SQUARE ☐ ROUND ☐ MATERIAL _____ COATING _____ NONE ☐

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = _____.____ FT. PROTECTIVE CASING: I. D. _____ IN. O.D. _____ IN.

RISER CASING STICK-UP: Y = _____.____ FT. RISER CASING: I. D. _____ IN. O.D. _____ IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☐ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	_____		
TIME / DRY	____:____ DRY ☐	NO SEDIMENT ☐	
FROM MEASURE POINT, IF INDICATED =	____.____ FT.	____.____ FT.	____.____ FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION =	____.____ FT.	____.____ FT.	____.____ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☐ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

DATE

EXISTING WELL EVALUATION

DATE 6/8/92 WELL FP-57

BY TCO, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE __ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

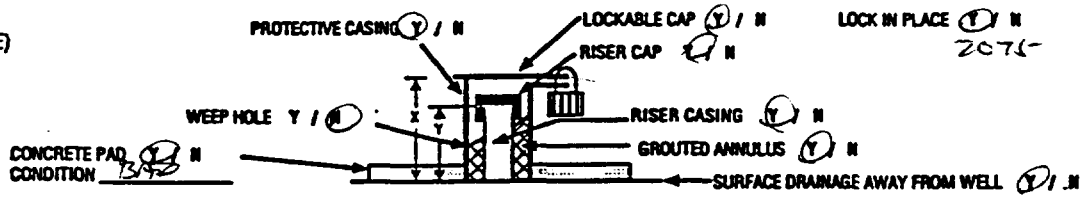
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: _____

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH (CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS [X] PVC [X] FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE [X]

PROTECTIVE CASING: SQUARE ☐ ROUND [X] MATERIAL STEEL COATING _____ NONE [X]

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 3.12 FT. PROTECTIVE CASING: I.D. .41 IN. O.D. .46 IN.

RISER CASING STICK-UP: Y = 2.94 FT. RISER CASING: I.D. 2" SCH 5 .17 IN. FT O.D. .12 IN. FT

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☐ GROUND SURFACE ☐ NOT INDICATED [X]

COMMENTS: PUT MARK ON STAINLESS STEEL CASING

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	ORS		
TIME / DRY / LNAPL	12:20 ☐	NO SEDIMENT ☐	DNAPL
FROM MEASURE POINT, IF INDICATED =	42.06 FT. 42.05	____.____ FT.	Ø 76.30 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION =	____.____ FT.	____.____ FT.	____.____ FT.

(OFFICE CALCULATION)

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM [X] FIRM ☐ HARD ☐

COMMENTS: BENTONITE ON BOTTOM, SLURRY NOT FIRM

*OPTIONAL BASED ON RI/FS NEED

[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES AS APPROPRIATE

CHECKED BY _____

DATE _____

EXISTING WELL EVALUATION

DATE 6/18/92 WELL FP-52

BY TCO, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE __ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

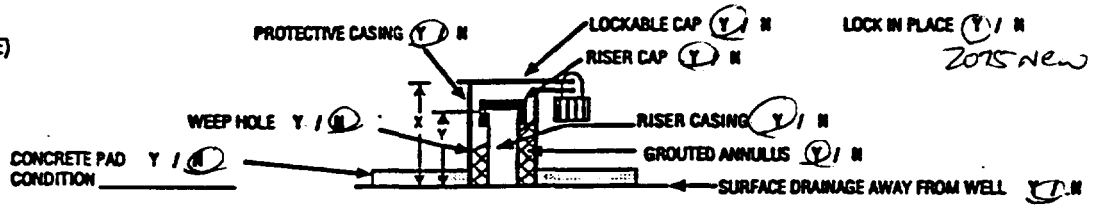
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: _____

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH
(CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☒ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☐ ROUND ☒ MATERIAL STEEL COATING _____ NONE ☒

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 3.40 FT. PROTECTIVE CASING: I.D. 4.51 IN. O.D. 4.55 IN.

RISER CASING STICK-UP: Y = 3.01 FT. RISER CASING: I.D. 4.515 IN. O.D. _____ IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☐ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	OBS		
TIME	12:28 DRY ☐ (NAPL)	NO SEDIMENT ☐ (PHASE)	
FROM MEASURE POINT, IF INDICATED =	42.555 FT. 42.55	____.____ FT. 0	51.80 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION	____.____ FT.	____.____ FT.	____.____ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☐ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

EXISTING WELL EVALUATION

DATE 6/8/92 WELL FP 53

BY TCO, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE __ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? Y / (N)

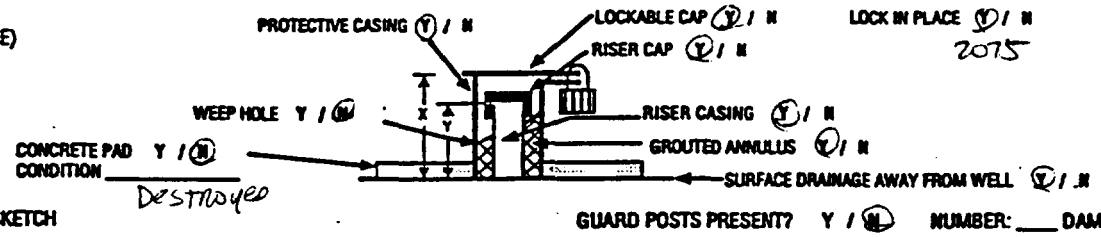
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: 4" STAINLESS STEEL
NEED LID REPAIRED

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH (CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☒ PVC ☐ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☐ ROUND ☒ MATERIAL STEEL COATING _____ NONE ☒

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 4.75 FT. PROTECTIVE CASING: I.D. .151 FT IN. O.D. .55 FT IN.

RISER CASING STICK-UP: Y = 3.38 FT. RISER CASING: I.D. .39 IN FT O.D. .36 IN FT

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☐ GROUND SURFACE ☐ NOT INDICATED ☒

COMMENTS: PUT MARK ON STAINLESS STEEL

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	ORS		
TIME	12:37 DRY ☐ DNAPL	NO SEDIMENT ☐ DNAPL	
FROM MEASURE POINT, IF INDICATED =	42.82 FT. Ø	___.___ FT. Ø	51.70 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	___.___ FT.	___.___ FT.	___.___ FT.
FROM GROUND SURFACE =	___.___ FT.	___.___ FT.	___.___ FT.
ELEVATION =	___.___ FT.	___.___ FT.	___.___ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☐ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED
[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND
( ) = DATA BASE VARIABLE NAME

NOTE: USE MASTER TABLE CODES AS APPROPRIATE

CHECKED BY _____ DATE _____

EXISTING WELL EVALUATION

DATE 6/8/92 WELL FP-59

BY TCO, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE __ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? Y / (N)

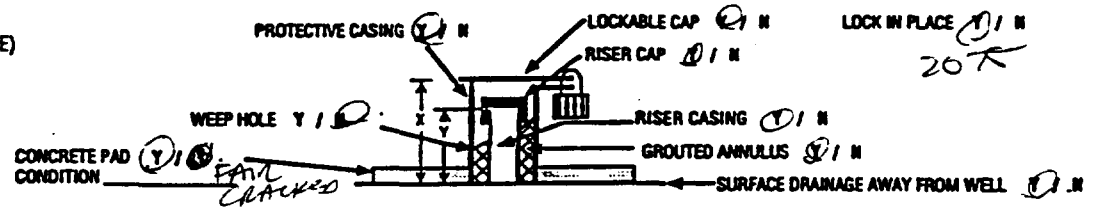
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: _____

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH (CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS [X] PVC ☐ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE [X]

PROTECTIVE CASING: SQUARE ☐ ROUND [X] MATERIAL STEEL COATING _____ NONE [X]

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 3.2 FT. PROTECTIVE CASING: I.D. .51 FT IN. O.D. .55 FT IN.

RISER CASING STICK-UP: Y = 2.69 FT. RISER CASING: I.D. 4" SCH 39 IN. FT O.D. .36 IN. FT

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☐ GROUND SURFACE ☐ NOT INDICATED [X]

COMMENTS: PUT MARK ON 4" STAINLESS STEEL

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	ORS		
TIME	12:46 DRY ☐ LNAPL	NO SEDIMENT ☐ DNAPL	
FROM MEASURE POINT, IF INDICATED =	43.00 FT. 42.99	____.____ FT. 0	51.48 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION =	____.____ FT.	____.____ FT.	____.____ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM [X] FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES AS APPROPRIATE

CHECKED BY _____

DATE _____

EXISTING WELL EVALUATION

DATE 10/8/92 WELL FP-55

BY TCO SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	_____
TYPE WELL (TYPE __ WEL):	[ ]	_____
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	_____
(NORTHING):	[ ]	_____
(EASTING):	[ ]	_____
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	_____
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	_____
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	_____
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		_____
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		_____
REF. POINT FOR MEASUREMENT (PMEASURE):		_____
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		_____

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? Y / (N)

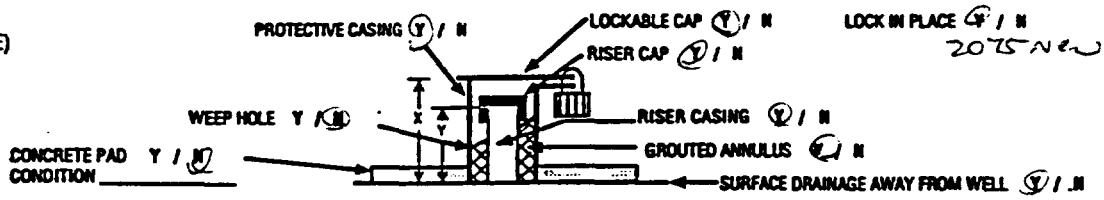
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: _____

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH
(CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS [X] PVC ☐ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE [X]

PROTECTIVE CASING: SQUARE ☐ ROUND [X] MATERIAL STEEL COATING _____ NONE [X]

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 3.05 FT. PROTECTIVE CASING: I.D. 5.1 FT / IN. O.D. .55 FT / IN.

RISER CASING STICK-UP: Y = 2.55 FT. RISER CASING: I.D. 4" : 3.34 IN. FT O.D. .36 IN. FT

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☐ GROUND SURFACE ☐ NOT INDICATED [X]

COMMENTS: PUT MARK ON 4" STAINLESS STEEL

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	ORS		
TIME	12:55		
DRY ☐	LNAPL 41.87	NO SEDIMENT ☐ DNAPL	
FROM MEASURE POINT, IF INDICATED =	41.88 FT.	____.____ FT.	0 51.75 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION =	____.____ FT.	____.____ FT.	____.____ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM [X] FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

NOTE:

CHECKED BY _____

[ ] EXISTING DATA FROM _____ DATA BASE - BLANK IF NONE FOUND

USE MASTER TABLE CODES

EXISTING WELL EVALUATION

DATE 6/8/92 WELL FPS6

BY TCO, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE __ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

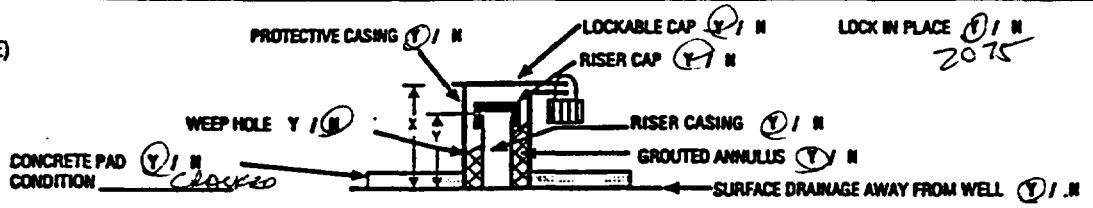
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: STAINLESS

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH
(CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☒ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☐ ROUND ☒ MATERIAL STEEL COATING _____ NONE ☒

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 2.85 FT. PROTECTIVE CASING: I.D. .51 FT IN. O.D. .55 FT IN.

RISER CASING STICK-UP: Y = 1.85 FT. RISER CASING: I.D. 4" SCH IN. O.D. _____ IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☐ GROUND SURFACE ☐ NOT INDICATED ☒

COMMENTS: PUT MARK ON STAINLESS STEEL

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	OES		
TIME / DRY ☐	12 : 10 / LNAPL	NO SEDIMENT ☐ / DNAPL	
FROM MEASURE POINT, IF INDICATED =	41.295 FT. 41.29	____.____ FT. Ø	50.10 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION =	____.____ FT.	____.____ FT.	____.____ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☐ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED
[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

EXISTING WELL EVALUATION

DATE 6/8/92 WELL GW-5A

BY TCO, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE __ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

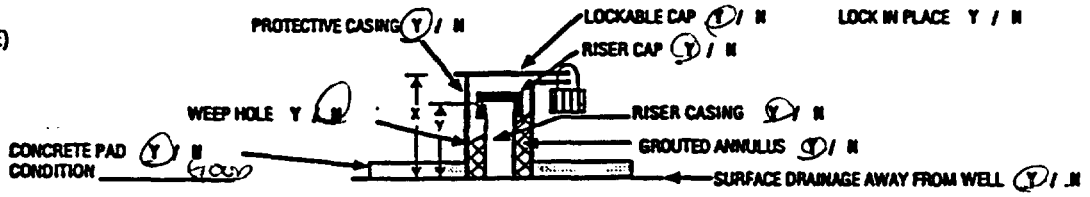
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: _____

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH (CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☐ ROUND ☒ MATERIAL _____ COATING _____ NONE ☒

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 1.99 FT. PROTECTIVE CASING: I.D. .51 IN. O.D. .55 IN.

RISER CASING STICK-UP: Y = 1.86 FT. RISER CASING: I.D. 2" SCH 40 PVC IN. O.D. .2 IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☐ GROUND SURFACE ☐ NOT INDICATED ☒

COMMENTS: PVC MARK on PVC

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	ORS		
TIME	11:53 DRY ☐ LNAPL	NO SEDIMENT ☐ DNAPL	
FROM MEASURE POINT, IF INDICATED =	32.76 FT.	____.____ FT.	53.15 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION =	____.____ FT.	____.____ FT.	____.____ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☒ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: SILT on Bottom

*OPTIONAL BASED ON RI/FS NEED

[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

DATE _____

EXISTING WELL EVALUATION

DATE 6/8/92 WELL IW-15

BY TCO, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE _ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

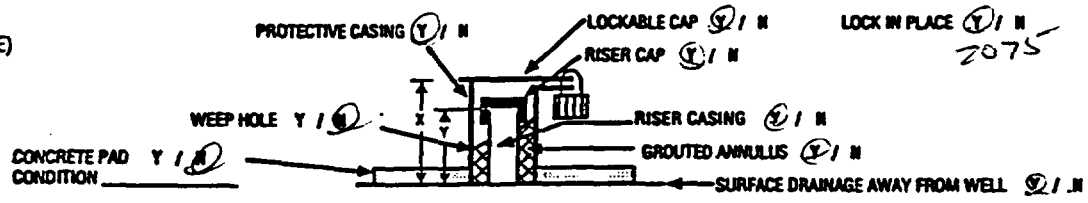
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: SLIGHT ADJ

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH
(CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☐ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☐ ROUND ☒ MATERIAL STEEL COATING _____ NONE ☒

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 1.4 FT. PROTECTIVE CASING: I.D. .51 FT IN. O.D. .55 FT IN.

RISER CASING STICK-UP: Y = 0.92 FT. RISER CASING: I.D. _____ IN. O.D. _____ IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☐ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	ORS		
TIME	12:00 DRY ☐	NO SEDIMENT ☐	
FROM MEASURE POINT, IF INDICATED =	41.28 FT. LNAPL 9	____.____ FT. DNAPL 9	61.35 FT. TCO
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION =	____.____ FT.	____.____ FT.	____.____ FT.

(OFFICE CALCULATION)

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☐ FIRM ☐ HARD ☐

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

EXISTING WELL EVALUATION

DATE 6/9/92 WELL SP7/10-01

BY TCO, BST SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE__WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND_ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP_ELV):		
TOP OF RISER CASING ELV., FT. (TOC_ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT_ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

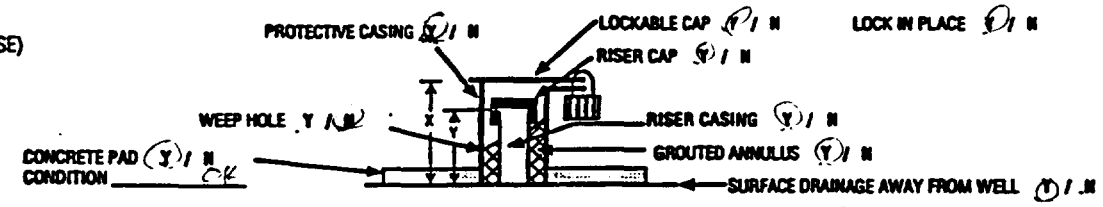
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: _____

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH
(CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? (Y) / N NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☒ ROUND ☐ MATERIAL STEEL COATING _____ NONE ☒

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = .1 FT. PROTECTIVE CASING: I.D. .97 IN. O.D. .50 IN.

RISER CASING STICK-UP: Y = -.02 FT. RISER CASING: I.D. .16 IN. O.D. .2 IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☐ GROUND SURFACE ☐ NOT INDICATED ☒

COMMENTS: PVC MARK ON PVC CAPS

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	OBS		
TIME	10:38 DRY ☐	NO SEDIMENT ☐	
FROM MEASURE POINT, IF INDICATED =	16.38 FT.	---.--- FT.	32.82 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	---.--- FT.	---.--- FT.	---.--- FT.
FROM GROUND SURFACE =	---.--- FT.	---.--- FT.	---.--- FT.
ELEVATION =	---.--- FT.	---.--- FT.	---.--- FT.

TOC 10/9/92 = 39.6

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☒ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

EXISTING WELL EVALUATION

DATE 6/4/12 WELL SP7/10-02

BY TCC, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE __ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

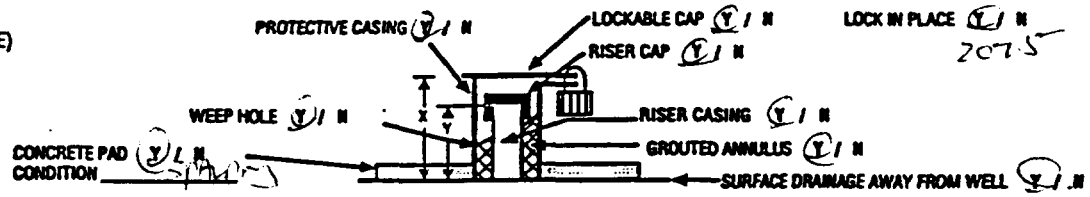
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: MOUNTED LOCK CLOSE TO GROUND SURFACE

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH (CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☒ ROUND ☐ MATERIAL STEEL COATING _____ NONE ☒

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 0.15 FT. PROTECTIVE CASING: I.D. 4" IN. O.D. 5" IN.

RISER CASING STICK-UP: Y = 0.0 FT. RISER CASING: I.D. 4" IN. O.D. 5" IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☐ GROUND SURFACE ☐ NOT INDICATED ☒

COMMENTS: PIT MARK ON PVC CASING

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	OBS		
TIME	10:00 DRY ☐ NAPL	NO SEDIMENT ☐ DNAPL	
FROM MEASURE POINT, IF INDICATED =	13.27 FT.	____.____ FT.	25.16 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION =	____.____ FT.	____.____ FT.	____.____ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☒ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

[ ] = EXISTING DATA FROM _____ DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

EXISTING WELL EVALUATION

DATE 6/9/92 WELL SP7/10-03

BY TCO, BT SERIAL NO.

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE__WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

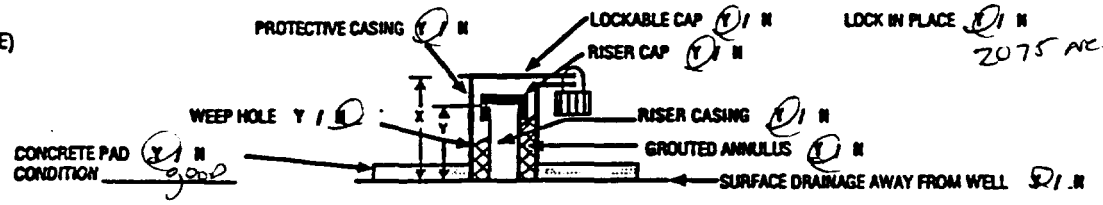
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: PVC HAS COUPLER @ 2' DOWN, NEEDS TO BE ATTACHED BEFOR ON ELEVATION NO good

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON:

WELL FINISH (CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE:

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): NONE ☒

PROTECTIVE CASING: SQUARE ☒ ROUND ☐ MATERIAL STEEL COATING NONE ☒

COMMENTS:

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 2.68 FT. PROTECTIVE CASING: I.D. .47 IN/FT O.D. .5 IN/FT

RISER CASING STICK-UP: Y = 2.06 FT. RISER CASING: I.D. .18 IN/FT O.D. .2 IN/FT

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☒ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS:

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	ORS		
TIME	15:07 DRY ☐ LNAPL	NO SEDIMENT ☐ DNAPL	
FROM MEASURE POINT, IF INDICATED =	22.48 FT.	___.___ FT.	32.67 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	___.___ FT.	___.___ FT.	___.___ FT.
FROM GROUND SURFACE =	___.___ FT.	___.___ FT.	___.___ FT.
ELEVATION =	___.___ FT.	___.___ FT.	___.___ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☒ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS:

*OPTIONAL BASED ON RI/FS NEED

[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY

EXISTING WELL EVALUATION

DATE 6/9/92 WELL SP7/10-09

BY TCO, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE __ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

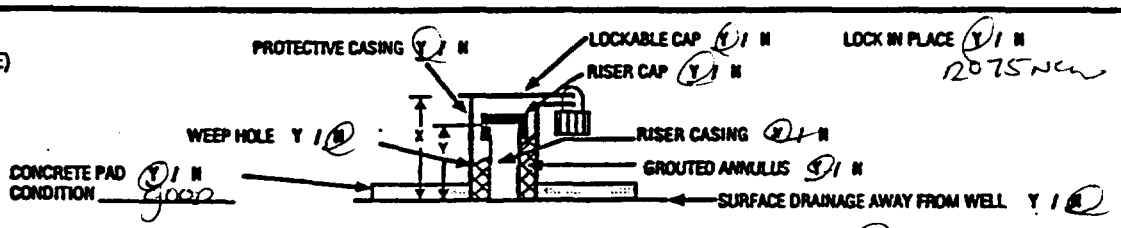
STATUS CORRECT? (Y) / N

COMMENTS: GOOD well

FRENCH DRAIN ~ 20' EAST

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH (CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☒ ROUND ☐ MATERIAL STEEL COATING _____ NONE ☒

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 1.67 FT. PROTECTIVE CASING: I.D. .47 FT IN. O.D. .5 FT IN.

RISER CASING STICK-UP: Y = 1.43 FT. RISER CASING: I.D. .18 FT IN. O.D. .20 FT IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☒ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	ORS		
TIME	15:23 DRY ☐ UNPPL	NO SEDIMENT ☐ UNPPL	
FROM MEASURE POINT, IF INDICATED =	17.09 FT. 17.03	____.____ FT.	31.82 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION =	____.____ FT.	____.____ FT.	____.____ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☐ FIRM ☒ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

EXISTING WELL EVALUATION

DATE 6/9/92 WELL W-3

BY TCO, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE__WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND_ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP_ELV):		
TOP OF RISER CASING ELV., FT. (TOC_ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT_ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? Y / (N)

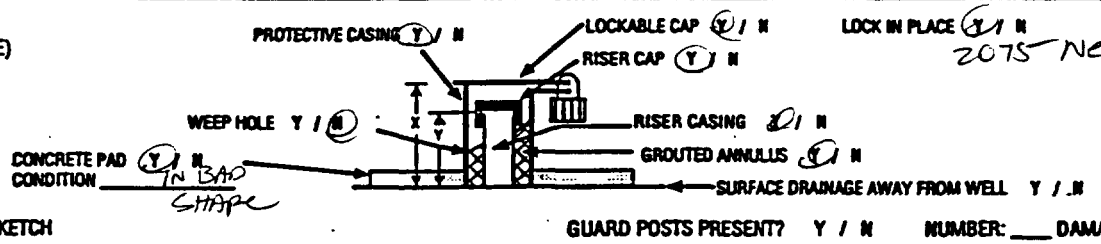
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: CASING BENT
CONCRETE PAD BROKEN
NO LOCK AT ARRIVAL TIME
PRODUCT.

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH (CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / N NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☐ ROUND ☒ MATERIAL STEEL COATING _____ NONE ☒

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 1.43 FT. PROTECTIVE CASING: I.D. .51 FT IN. O.D. .55 FT IN.

RISER CASING STICK-UP: Y = 1.21 FT. RISER CASING: I.D. .18 FT IN. O.D. .2 FT IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☐ GROUND SURFACE ☐ NOT INDICATED ☒

COMMENTS: PUT MARK ON NORTH SIDE OF PVC

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	ORS		
TIME	15:15 DRY ☐	NO SEDIMENT ☐	
FROM MEASURE POINT, IF INDICATED =	18.85 FT. 18.14 LNAPL	____.____ FT. ∅ DNAPL	34.70 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION =	____.____ FT.	____.____ FT.	____.____ FT.

(OFFICE CALCULATION)

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☒ FIRM ☐ HARD ☐

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

EXISTING WELL EVALUATION

DATE 6/4/92 WELL W-4

BY TJO, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE _ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? Y / (N)

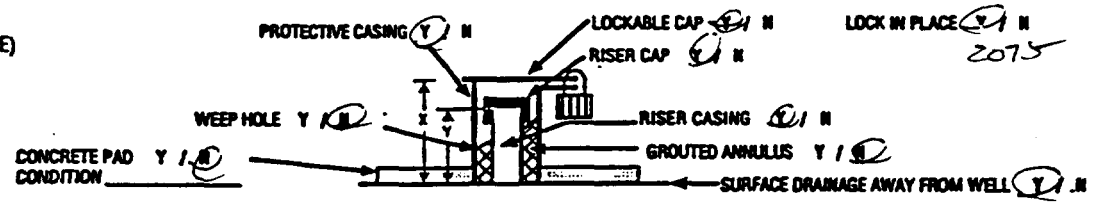
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: _____

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH
(CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☐ ROUND ☒ MATERIAL STEEL COATING _____ NONE ☐

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 1.12 FT. PROTECTIVE CASING: I.D. .151 IN. O.D. .155 IN.

RISER CASING STICK-UP: Y = 0.50 FT. RISER CASING: I.D. .18 IN. O.D. .20 IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☐ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: PVC MARK ON

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	ORS		
TIME	15:36 DRY ☐ LNAPL	NO SEDIMENT ☐ DNAPL	
FROM MEASURE POINT, IF INDICATED =	12.35 FT.	____.____ FT.	28.47 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION =	____.____ FT.	____.____ FT.	____.____ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☒ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED
[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

EXISTING WELL EVALUATION

DATE 6/4/92 WELL PT-C1

BY TCO BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE __ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[176.60]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

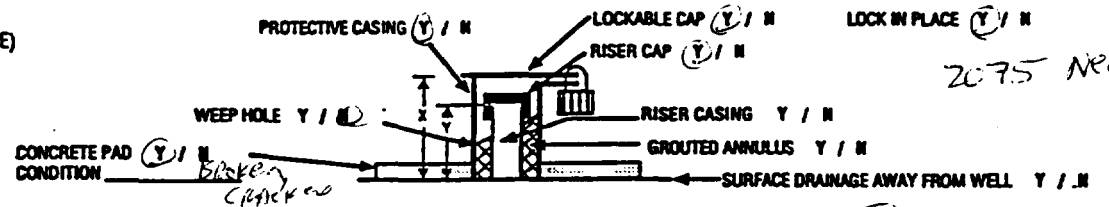
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: CRACKED CONCRETE BASE

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH
(CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☐ ROUND ☐ MATERIAL STEEL COATING PAINT NONE ☐

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 3.19 FT. PROTECTIVE CASING: I.D. .66 FT IN. O.D. .71 FT IN.

RISER CASING STICK-UP: Y = 2.39 FT. RISER CASING: I.D. .33 IN. (4" SCH 40 PVC) O.D. .37 IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☐ GROUND SURFACE ☐ NOT INDICATED ☒

COMMENTS: MADE MARK (WITH SHARPIE) FOR REFERENCE MEASUREMENT ON RISER CASING

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	ORS		
TIME / DRY / NAPL	14:41 / ☐ / NAPL	NO SEDIMENT ☐ / ON NAPL	
FROM MEASURE POINT, IF INDICATED =	22.90 FT. NO	____.____ FT.	40.22 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION =	____.____ FT.	____.____ FT.	____.____ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☒ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED
[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

EXISTING WELL EVALUATION

DATE 6/4/92 WELL FT-03

BY TCC, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE__WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[176.50]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

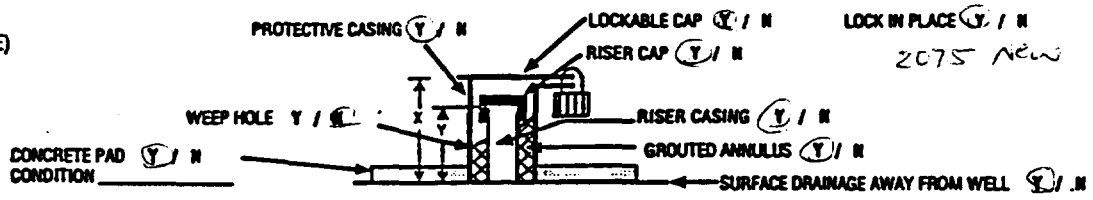
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: Well Screen > 20'

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH (CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☒ ROUND ☐ MATERIAL STEEL COATING PAINT NONE ☐

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 3.27 FT.

RISER CASING STICK-UP: Y = 2.95 FT.

PROTECTIVE CASING: I.D. 4" FT IN. O.D. .5 FT IN.

RISER CASING: I.D. 2" SCH 40 PVC IN. O.D. _____ IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☐ GROUND SURFACE ☐ NOT INDICATED ☒

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	OTDS		
TIME	14:47 DRY ☐ LNAPL	NO SEDIMENT ☐ DNAPL	
FROM MEASURE POINT, IF INDICATED =	TOC 22.84 FT.	____.____ FT.	42.70 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION =	____.____ FT.	____.____ FT.	____.____ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☒ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

[ ] = EXISTING DATA FROM DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES AS APPROPRIATE

CHECKED BY _____

DATE _____

EXISTING WELL EVALUATION

DATE 6/4/92 WELL FT-C9

BY TCO, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	_____
TYPE WELL (TYPE__WEL):	[ ]	_____
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	_____
(NORTHING):	[ ]	_____
(EASTING):	[ ]	_____
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	_____
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[176.57]	_____
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	_____
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		_____
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		_____
REF. POINT FOR MEASUREMENT (PMEASURE):		_____
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		_____

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

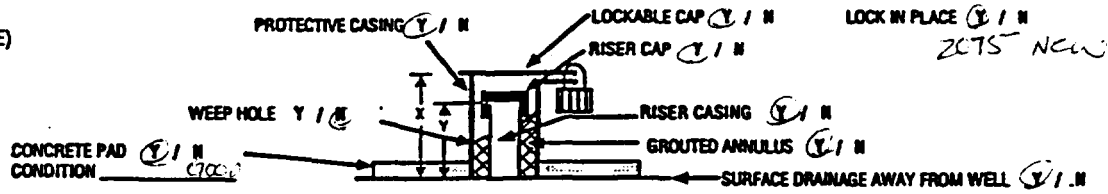
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: SCREEN 7 10'

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH
(CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☒ ROUND ☐ MATERIAL STEEL COATING PAINT NONE ☐

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 3.07 FT. PROTECTIVE CASING: I.D. .97 FT IN. O.D. .50 FT IN.
2 IN SCH 40 PVC

RISER CASING STICK-UP: Y = 3.30 FT. RISER CASING: I.D. _____ IN. O.D. _____ IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☐ GROUND SURFACE ☐ NOT INDICATED ☒

COMMENTS: PUT MARK ON PVC RISER FOR MEASURING POINT

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	CBS		
TIME	14:55		
	DRY ☐ LNAPL	NO SEDIMENT ☐ ANAPL	
FROM MEASURE POINT, IF INDICATED =	22.73 FT.	_____ FT.	43.41 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	_____ FT.	_____ FT.	_____ FT.
FROM GROUND SURFACE =	_____ FT.	_____ FT.	_____ FT.
ELEVATION =	_____ FT.	_____ FT.	_____ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☒ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: SOME SILT ON BOTTOM

* OPTIONAL BASED ON RI/FS NEED
[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

EXISTING WELL EVALUATION

DATE 6/4/92 WELL GI-5A

BY TCC, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE__WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[174.65]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? ID on CAP = Y / (N)

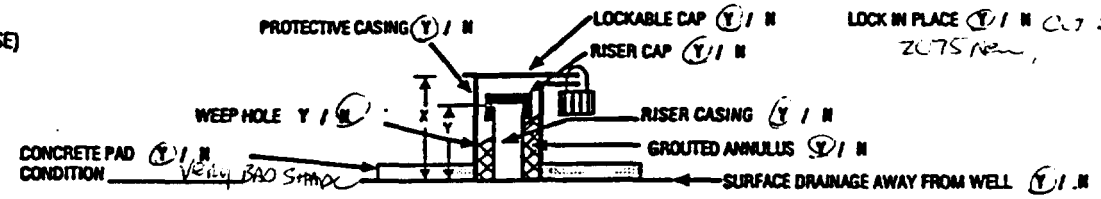
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: REPLACE CONCRETE PAD

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH (CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☐ ROUND ☒ MATERIAL STEEL COATING PAINT NONE ☐

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 1.61 FT. PROTECTIVE CASING: I.D. .5 FT IN. O.D. .55 FT IN.

RISER CASING STICK-UP: Y = 0.91 FT. RISER CASING: I.D. 2" SCH 40 PVC IN. O.D. _____ IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☐ GROUND SURFACE ☐ NOT INDICATED ☒

COMMENTS: MADE MARK (WITH SHARPIE) on PVC CASING

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	OBS	LNAPL	
TIME / DRY	14:36 DRY ☐	NO SEDIMENT ☐ DNAPL	
FROM MEASURE POINT, IF INDICATED =	20.94 FT.	____.____ FT.	44.25 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION =	____.____ FT.	____.____ FT.	____.____ FT.

(OFFICE CALCULATION)

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☒ FIRM ☐ HARD ☐

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

EXISTING WELL EVALUATION

DATE 6/4/92 WELL W-9

BY TCC, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE__WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[75.65]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND_ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP_ELV):		
TOP OF RISER CASING ELV., FT. (TOC_ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT_ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? Y / (N) NA

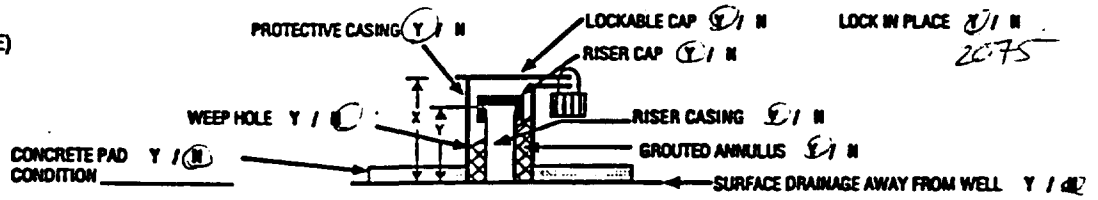
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: _____

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH (CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / N NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☐ ROUND ☒ MATERIAL STEEL COATING _____ NONE ☒

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 0.84 FT. PROTECTIVE CASING: I.D. 1.97 (15 TO FT) IN. O.D. .155 FT IN.

RISER CASING STICK-UP: Y = 0.85 FT. RISER CASING: I.D. _____ IN. O.D. _____ IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☒ NEW GROUND SURFACE ☐ NOT INDICATED ☒

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	OBS		
TIME	14:30 DRY ☐	NO SEDIMENT ☐	
	LNAPL NO	LNAPL NO	
FROM MEASURE POINT, IF INDICATED =	20.98 FT.	____.____ FT.	39.70 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION =	____.____ FT.	____.____ FT.	____.____ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☒ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

EXISTING WELL EVALUATION

DATE 6/4/92 WELL SP14-01

BY TCO, ST SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE __ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[181.99]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

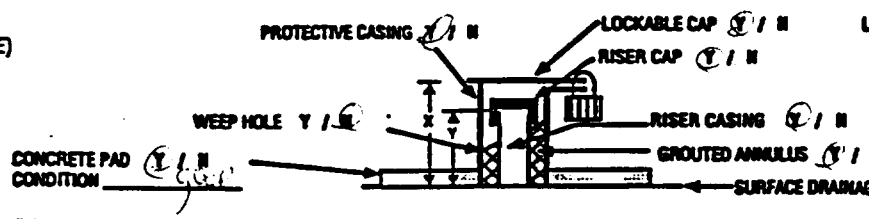
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: _____

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH (CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y /

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☐

PROTECTIVE CASING: SQUARE ☒ ROUND ☐ MATERIAL _____ COATING PAINT NONE ☐

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 2.38 FT. PROTECTIVE CASING: I.D. .47 IN. O.D. .5 IN.

RISER CASING STICK-UP: Y = 1.94 FT. RISER CASING: I.D. .17 IN. O.D. .2 IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☒ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	OIL/S		
TIME / DRY	12:06 DRY ☐ FLOATING	NO SEDIMENT ☐ SUSPECT	
FROM MEASURE POINT, IF INDICATED =	30.83 FT.	____.____ FT.	42.20 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION =	____.____ FT.	____.____ FT.	____.____ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☒ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

[ ] = EXISTING DATA FROM _____ *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

EXISTING WELL EVALUATION

DATE 6/4/92 WELL SP14-C2

BY TCO, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE__WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND_ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP_ELV):		
TOP OF RISER CASING ELV., FT. (TOC_ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT_ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

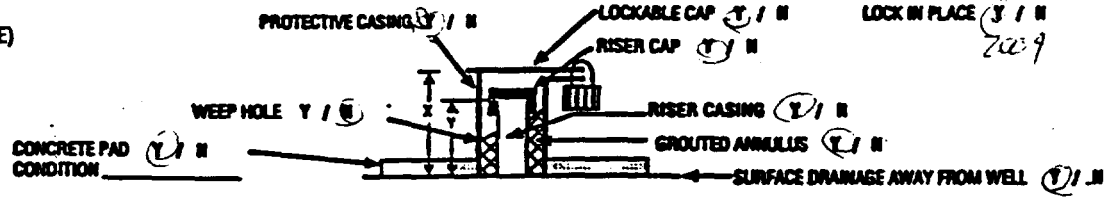
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: _____

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH (CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☒ ROUND ☐ MATERIAL STEEL COATING PAINT NONE ☐

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 2.75 FT. PROTECTIVE CASING: I.D. .47 FT IN. O.D. .5 FT IN.

RISER CASING STICK-UP: Y = 2.19 FT. RISER CASING: I.D. 2" SCH 40 IN. O.D. _____ IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☐ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	OFS		
TIME	11:55 DRY ☐ FLOATING	NO SEDIMENT ☐	
FROM MEASURE POINT, IF INDICATED =	35.16 FT. ✓	_____ FT. SINKING	47.1 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	_____ FT.	_____ FT.	_____ FT.
FROM GROUND SURFACE =	_____ FT.	_____ FT.	_____ FT.
ELEVATION =	_____ FT.	_____ FT.	_____ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☒ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

( ) = DATA BASE VARIABLE NAME

NOTE: USE MASTER TABLE CODES AS APPROPRIATE

CHECKED BY _____

DATE _____

EXISTING WELL EVALUATION

DATE 6/4/92 WELL GW-7A

BY TCO, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE __ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[181.19]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

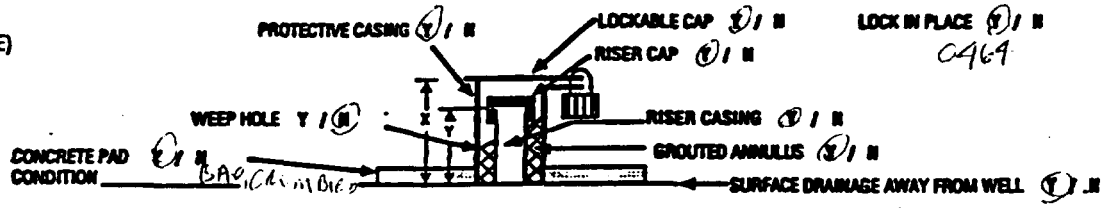
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: GROUT @ BASE CRUMBLED

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH
(CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☐ ROUND ☒ MATERIAL STEEL COATING PAINT NONE ☐

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 2.70 FT. PROTECTIVE CASING: I.D. .51 IN. O.D. .55 IN.

RISER CASING STICK-UP: Y = 1.92 FT. RISER CASING: I.D. 2" SCH 40 PVC IN. O.D. .2 IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☒ NEW GROUND SURFACE ☐ NOT INDICATED ☒

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	ORS		
TIME / DRY / NO SEDIMENT	12:11 DRY ☐ (FLOATING)	NO SEDIMENT ☐ (SINKERS)	
FROM MEASURE POINT, IF INDICATED =	30.54 FT.	—	39.00 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____ FT.	____ FT.	____ FT.
FROM GROUND SURFACE =	____ FT.	____ FT.	____ FT.
ELEVATION =	____ FT.	____ FT.	____ FT.

(OFFICE CALCULATION)

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☐ FIRM ☐ HARD ☐

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES WHERE APPROPRIATE

CHECKED BY _____

DATE _____

EXISTING WELL EVALUATION

DATE 6/4/92

BY JCO, BT

LOOP BAD ITEM INSIDE ABD.

WELL W-17

SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL NUMBER (WELL):	[ ]	
TYPE WELL (TYPE __ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

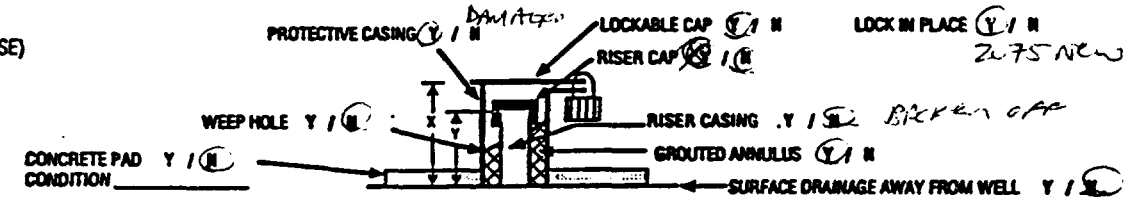
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS:
DAMAGED CASING
DAMAGED PVC
NO CONCRETE
PVC PIPE IS OBSTRUCTED DOWNHOLE
ABANDONED

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH
(CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH

GUARD POSTS PRESENT? Y (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☐ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☐ ROUND ☒ MATERIAL _____ COATING PAINT NONE ☐

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 1.5 FT.

RISER CASING STICK-UP: Y = ~~0.34~~ FT.?

PROTECTIVE CASING: I.D. 4" .50 FT IN. O.D. 5.5 .55 FT IN.

RISER CASING: I.D. 2" SCH 40 PVC IN. O.D. _____ IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☐ GROUND SURFACE ☐ NOT INDICATED ☒

COMMENTS: PVC CASING BROKEN OFF AT GROUND SURFACE

DEPTH MEASUREMENTS

OBSTRUCTIONS DOWN HOLE

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	_____		
TIME / DRY	___:___ DRY ☐	NO SEDIMENT ☐	
FROM MEASURE POINT, IF INDICATED =	___.___ FT.	___.___ FT.	___.___ FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	___.___ FT.	___.___ FT.	___.___ FT.
FROM GROUND SURFACE =	___.___ FT.	___.___ FT.	___.___ FT.
ELEVATION =	___.___ FT.	___.___ FT.	___.___ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☐ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED
( ) = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES AS APPROPRIATE

CHECKED BY _____

DATE _____

EXISTING WELL EVALUATION

DATE 6/4/92 WELL SP15-C1

BY TCO, BST SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	_____
TYPE WELL (TYPE __ WEL):	[ ]	_____
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	_____
(NORTHING):	[ ]	_____
(EASTING):	[ ]	_____
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	_____
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[185.03]	_____
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	_____
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		_____
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		_____
REF. POINT FOR MEASUREMENT (PMEASURE):		_____
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		_____

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

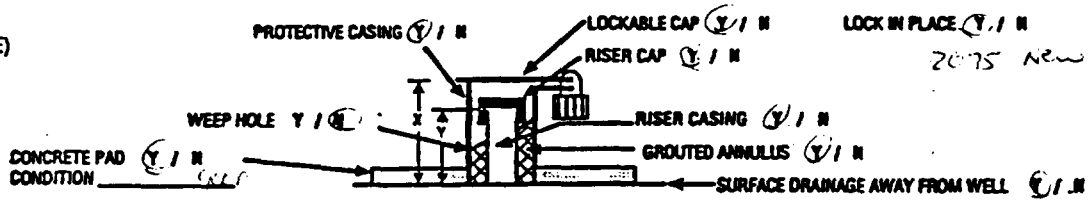
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: _____

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH
(CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☒ ROUND ☐ MATERIAL STEEL COATING PAINT NONE ☐

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 2.67 FT. PROTECTIVE CASING: I. D. 4.97 IN. O.D. .5 IN.

RISER CASING STICK-UP: Y = 2.31 FT. RISER CASING: I. D. 2" SCH 40 PVC IN. O.D. _____ IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☐ GROUND SURFACE ☐ NOT INDICATED ☒

COMMENTS: RIT MARK ON RISER CASING FOR W.L. MEASUREMENTS

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	E.B.S		
TIME	15:07 DRY ☐ LNAPL	NO SEDIMENT ☐	DNAPL
FROM MEASURE POINT, IF INDICATED =	27.9 FT.	___.___ FT.	37.65 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	___.___ FT.	___.___ FT.	___.___ FT.
FROM GROUND SURFACE =	___.___ FT.	___.___ FT.	___.___ FT.
ELEVATION =	___.___ FT.	___.___ FT.	___.___ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☐ FIRM ☒ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED
[ ] = EXISTING DATA FROM ___ DATA BASE - BLANK IF NONE FOUND
( ) = DATA BASE VARIABLE NAME

NOTE: USE MASTER TABLE CODES AS APPROPRIATE

CHECKED BY _____

DATE _____

EXISTING WELL EVALUATION

DATE 6/9/92 WELL SPLS-02

BY TCO, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE __ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

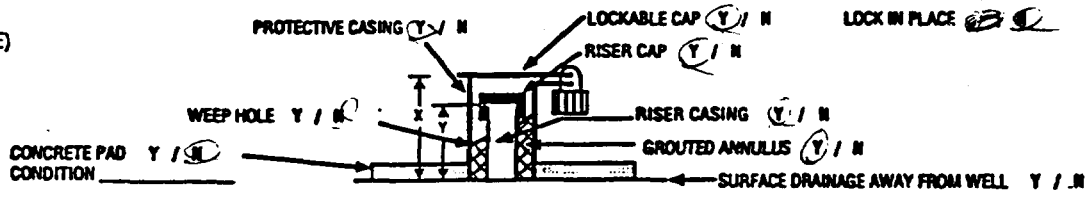
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? Y / (N)

COMMENTS: LOOKS INSIDE CASING

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH (CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH

GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / (N)

☒ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION NEEDS EXPANDABLE RISER CAP.

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☐ ROUND ☒ MATERIAL STEEL COATING _____ NONE ☒

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 0.0 FT. PROTECTIVE CASING: I.D. .71 IN. O.D. .8 IN.

RISER CASING STICK-UP: Y = 0.4 FT. RISER CASING: I.D. .18 IN. O.D. .20 IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☒ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	OKS		
TIME / DRY	10:29 / DNAPL	NO SEDIMENT ☐ / DNAPL	
FROM MEASURE POINT, IF INDICATED =	25.52 FT.	____.____ FT.	39.54 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION =	____.____ FT.	____.____ FT.	____.____ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☒ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES AS APPROPRIATE

CHECKED BY _____ DATE _____

EXISTING WELL EVALUATION

DATE 6/9/92 WELL T 40001

BY TO, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE __ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? Y / (N)

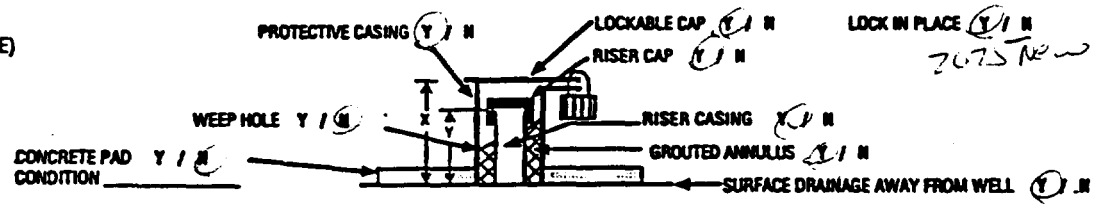
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: _____

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH (CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☐

PROTECTIVE CASING: SQUARE ☐ ROUND ☒ MATERIAL STEEL COATING _____ NONE ☒

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 2.15 FT. PROTECTIVE CASING: I.D. .151 FT IN. O.D. .176 FT IN

RISER CASING STICK-UP: Y = 1.696 FT. RISER CASING: I.D. .18 FT IN. O.D. .2 FT IN

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☐ GROUND SURFACE ☐ NOT INDICATED ☒

COMMENTS: PUT MARK ON PVC

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	CRS		
TIME	09:41 DRY ☐	NO SEDIMENT ☐	
	DNAPL	DNAPL	CRS PROBE NOT LONG ENOUGH
FROM MEASURE POINT, IF INDICATED =	27.51 FT. 27.505	____.____ FT.	____.____ FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION =	____.____ FT.	____.____ FT.	____.____ FT. (OFFICE CALCULATION)

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☒ FIRM ☐ HARD ☐

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

( ) = DATA BASE VARIABLE NAME

NOTE: USE MASTER TABLE CODES AS APPROPRIATE

CHECKED BY _____

DATE _____

EXISTING WELL EVALUATION

DATE 6/7/92 WELL T40905

BY TCU BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE __ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	
MEASURE POINT CORRECTION, FT. (MPC):	[288.03]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

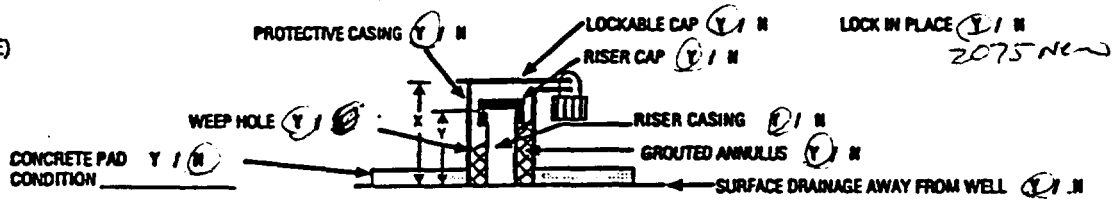
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: NO CONCRETE PAD

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH (CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y /

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☐ ROUND ☒ MATERIAL STEEL COATING _____ NONE ☒

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 3.0 FT. PROTECTIVE CASING: I.D. 4.1 IN. O.D. 4.7 IN.

RISER CASING STICK-UP: Y = 2.81 FT. RISER CASING: I.D. 2" PVC SCH 40 IN. O.D. _____ IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☐ GROUND SURFACE ☐ NOT INDICATED ☒

COMMENTS: PUT MARK ON PVC

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	UBS		
TIME / DRY ☐	14:39 WATER	NO SEDIMENT ☐ DRY	
FROM MEASURE POINT, IF INDICATED =	27.79 FT.	____.____ FT.	39.21 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION =	____.____ FT.	____.____ FT.	____.____ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☒ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES AS APPROPRIATE

CHECKED BY _____

DATE _____

EXISTING WELL EVALUATION

DATE 6/7/92 WELL T91206

BY TCC, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	____ ____
TYPE WELL (TYPE __ WEL):	[ ]	____
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	____
(NORTHING):	[ ]	____
(EASTING):	[ ]	____
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	____
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[290.09]	____
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	____
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		____
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		____
REF. POINT FOR MEASUREMENT (PMEASURE):		____
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		____

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

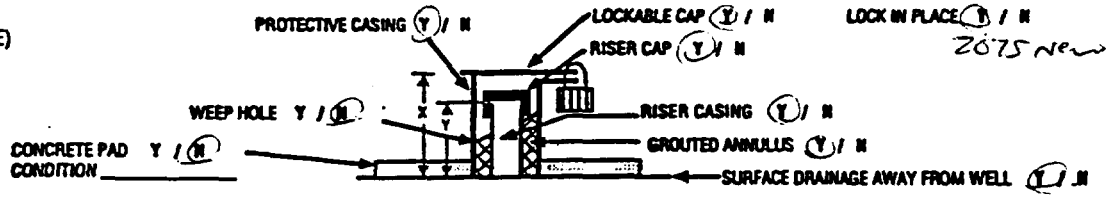
DOES LOCATION VISUALLY CONFORM TO DATA? Y / (N)

STATUS CORRECT? (Y) / N

COMMENTS: NO CONCRETE PAD

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH (CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y /

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☐ ROUND ☒ MATERIAL STEEL COATING _____ NONE ☒

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 2.0 FT. PROTECTIVE CASING: I.D. 4.2 IN. O.D. 4.7 IN.

RISER CASING STICK-UP: Y = 1.05 FT. RISER CASING: I.D. _____ IN. O.D. _____ IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☐ GROUND SURFACE ☐ NOT INDICATED ☒

COMMENTS: PUT MARK ON PVC

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	UDS		
TIME	14:45 DRY ☐	NO SEDIMENT ☐	
FROM MEASURE POINT, IF INDICATED =	14.75 FT. Ø	____ FT. Ø	30.17 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____ FT.	____ FT.	____ FT.
FROM GROUND SURFACE =	____ FT.	____ FT.	____ FT.
ELEVATION =	____ FT.	____ FT.	____ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☐ FIRM ☒ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

( ) = DATA BASE VARIABLE NAME

NOTE: USE MASTER TABLE CODES AS APPROPRIATE

CHECKED BY _____

DATE _____

EXISTING WELL EVALUATION

DATE TC 10/7/92 WELL T40107

BY TC, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE__WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[230.45]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND_ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP_ELV):		
TOP OF RISER CASING ELV., FT. (TOC_ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT_ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

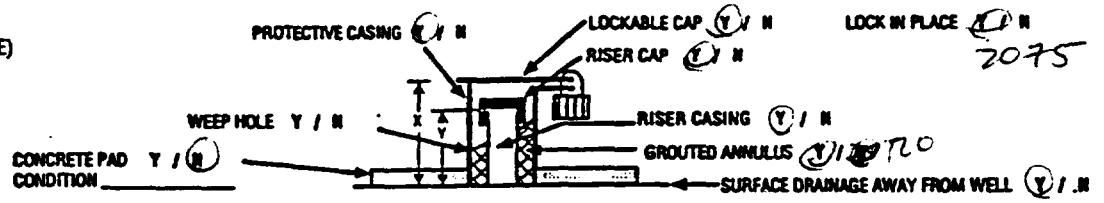
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: _____

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH
(CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / N NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☐ ROUND ☐ MATERIAL STEEL COATING _____ NONE ☒

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 3.108 FT. PROTECTIVE CASING: I.D. 5.1 IN. O.D. 5.5 IN.

RISER CASING STICK-UP: Y = 3.55 FT. RISER CASING: I.D. 2" SCH 40 IN. O.D. _____ IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☐ GROUND SURFACE ☐ NOT INDICATED ☒

COMMENTS: PUT MARK ON PVC

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	CRS		
TIME / DRY	14:25 DRY ☐ LNAPL	NO SEDIMENT ☐ DNAPL	
FROM MEASURE POINT, IF INDICATED =	16.50 FT.	0 FT.	31.98 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION =	____.____ FT.	____.____ FT.	____.____ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☒ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED
[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND
( ) = DATA BASE VARIABLE NAME

NOTE: USE MASTER TABLE CODES AS APPROPRIATE

CHECKED BY _____

DATE _____

EXISTING WELL EVALUATION

DATE 6/7/92 WELL T 40309

BY TCC, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	_____
TYPE WELL (TYPE __ WEL):	[ ]	_____
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	_____
(NORTHING):	[ ]	_____
(EASTING):	[ ]	_____
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	_____
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[255.10]	_____
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	_____
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		_____
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		_____
REF. POINT FOR MEASUREMENT (PMEASURE):		_____
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		_____

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

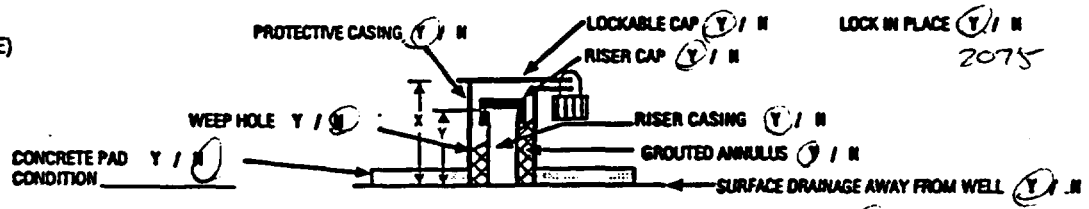
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: _____

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH (CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☐

PROTECTIVE CASING: SQUARE ☐ ROUND ☒ MATERIAL STEEL COATING _____ NONE ☒

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 1.88 FT. PROTECTIVE CASING: I.D. .42 FT IN. O.D. .47 FT IN.

RISER CASING STICK-UP: Y = 1.28 FT. RISER CASING: I.D. 2" Sch 40 PVC IN. O.D. _____ IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☐ GROUND SURFACE ☐ NOT INDICATED ☒

COMMENTS: PUT MARK ON PVC

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	ORS		
TIME	13:35 DRY ☐ LNAPL	NO SEDIMENT ☐ DNAPL	
FROM MEASURE POINT, IF INDICATED =	31.70 FT. ¢	____.____ FT. ¢	60.60 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION =	____.____ FT.	____.____ FT.	____.____ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☐ FIRM ☒ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES AS APPROPRIATE

CHECKED BY _____

DATE

EXISTING WELL EVALUATION

DATE 6/7/92 WELL T 41709

BY TCO, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE __ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[2760.94]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

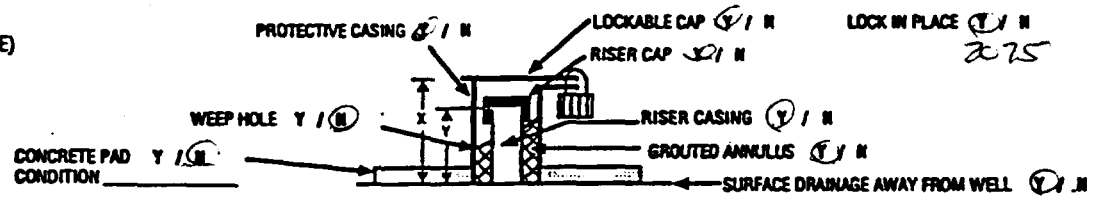
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: NO CONCRETE PAD

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH (CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☐ ROUND ☐ MATERIAL _____ COATING _____ NONE ☐

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 1.93 FT. PROTECTIVE CASING: I.D. .42 FT IN. O.D. .47 FT IN.

RISER CASING STICK-UP: Y = 1.72 FT. RISER CASING: I.D. 2" SCH 40 PVC IN. O.D. .2 ANPT FT

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☐ GROUND SURFACE ☐ NOT INDICATED ☒

COMMENTS: PUT MARK ON PVC

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	ORS		
TIME / DRY	14:09 DRY ☐ ANAPL	NO SEDIMENT ☐ ANAPL	
FROM MEASURE POINT, IF INDICATED =	16.92 FT. 0	____.____ FT.	32.13 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION =	____.____ FT.	____.____ FT.	____.____ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☒ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

{ } = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES AS APPROPRIATE

CHECKED BY _____

DATE _____

EXISTING WELL EVALUATION

DATE 6/7/92 WELL T42202

BY TCO, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[!]	_____
TYPE WELL (TYPE __ WEL):	[ ]	_____
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	_____
(NORTHING):	[ ]	_____
(EASTING):	[ ]	_____
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	_____
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[390.50]	_____
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	_____
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		_____
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		_____
REF. POINT FOR MEASUREMENT (PMEASURE):		_____
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		_____

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

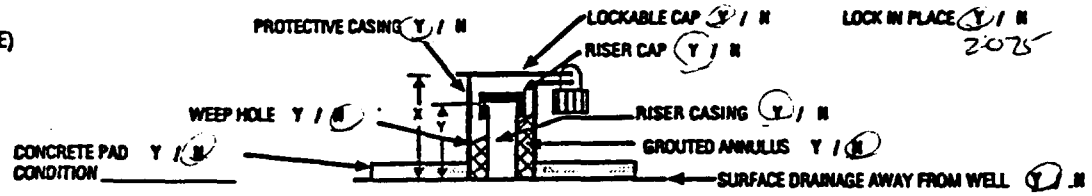
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: NO CEMENT PAD

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH (CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y /

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☐ ROUND ☒ MATERIAL STEEL COATING _____ NONE ☒

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 2.5 FT. PROTECTIVE CASING: I.D. .42 FT IN. O.D. .146 FT IN.

RISER CASING STICK-UP: Y = 1.31 FT. RISER CASING: I.D. 2" SCH 40 PVC IN. O.D. _____ IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☐ GROUND SURFACE ☐ NOT INDICATED ☒

COMMENTS: PUT MARK ON PVC

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	OTS		
TIME / DRY	12:54 ☐	LNAPL NO SEDIMENT ☐	PHASE
FROM MEASURE POINT, IF INDICATED =	103.98 FT.	___.___ FT.	∅ COULDN'T DO MEAS ___.___ FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	___.___ FT.	___.___ FT.	DUE TO PHASE NOT FLOWING ___.___ FT.
FROM GROUND SURFACE =	___.___ FT.	___.___ FT.	___.___ FT.
ELEVATION =	___.___ FT.	___.___ FT.	___.___ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☐ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

( ) = DATA BASE VARIABLE NAME

NOTE: USE MASTER TABLE CODES AS APPROPRIATE

CHECKED BY _____

DATE _____

EXISTING WELL EVALUATION

DATE 6/7/92 WELL T40503

BY TCO BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE __ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[2245C]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

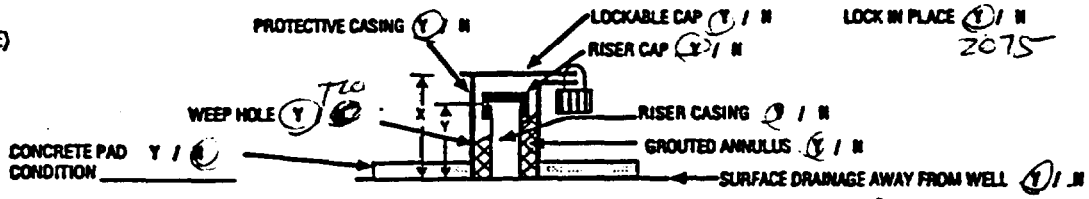
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: NO CONCRETE PAD

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH (CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☐ ROUND ☒ MATERIAL STEEL COATING _____ NONE ☒

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 2.22 FT. PROTECTIVE CASING: I.D. 4 IN. O.D. .47 FT IN.

RISER CASING STICK-UP: Y = 1.98 FT. RISER CASING: I.D. 2" SCH 40 PVC IN. O.D. _____ IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☐ GROUND SURFACE ☐ NOT INDICATED ☒

COMMENTS: PUT MARK ON PIC

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	OPS		
TIME	13:45 DRY ☐	NO SEDIMENT ☐	
FROM MEASURE POINT, IF INDICATED =	28.53 FT. DNAPL ✓	_____ FT. ✓ DNAPL	97.26 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	_____ FT.	_____ FT.	_____ FT.
FROM GROUND SURFACE =	_____ FT.	_____ FT.	_____ FT.
ELEVATION =	_____ FT.	_____ FT.	_____ FT.

BOTTOM WELL CONDITIONS: SOFT ☒ MOD. FIRM ☐ FIRM ☒ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES AS APPROPRIATE

CHECKED BY _____

DATE _____

EXISTING WELL EVALUATION

DATE 6/7/92 WELL T 428/0

BY TCC, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE__WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[305.15]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND_ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP_ELV):		
TOP OF RISER CASING ELV., FT. (TOC_ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT_ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

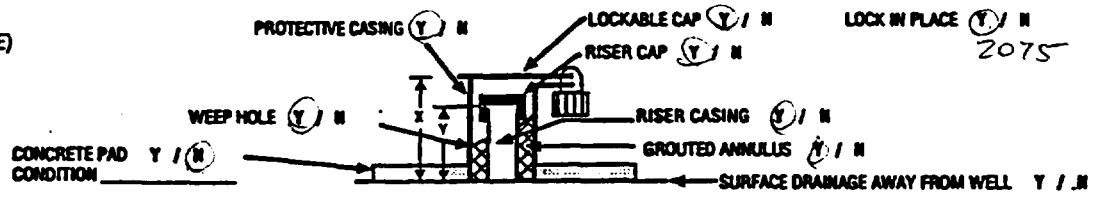
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: NO VISIBLE CONCRETE PAD

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH (CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / N NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☐ ROUND ☒ MATERIAL STEEL COATING _____ NONE ☒

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 2.65 FT. PROTECTIVE CASING: I.D. _____ IN. O.D. _____ IN.

RISER CASING STICK-UP: Y = 2.94 FT. RISER CASING: I.D. _____ IN. O.D. _____ IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☐ GROUND SURFACE ☐ NOT INDICATED ☒

COMMENTS: PUT MARK ON PVC

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	CBS		
TIME	13:20		
	DRY ☐	NO SEDIMENT ☐	
FROM MEASURE POINT, IF INDICATED =	28.98 FT.	____.____ FT.	40.30 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION =	____.____ FT.	____.____ FT.	____.____ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☐ FIRM ☒ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

DATE _____

EXISTING WELL EVALUATION

DATE 6/3/92 WELL BH-1

BY TLO, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE__WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	
MEASURE POINT CORRECTION, FT. (MPC):	[2.30 24]	SEE BELOW
GROUND ELEVATION, FT. (GRND_ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP_ELV):		
TOP OF RISER CASING ELV., FT. (TOC_ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT_ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

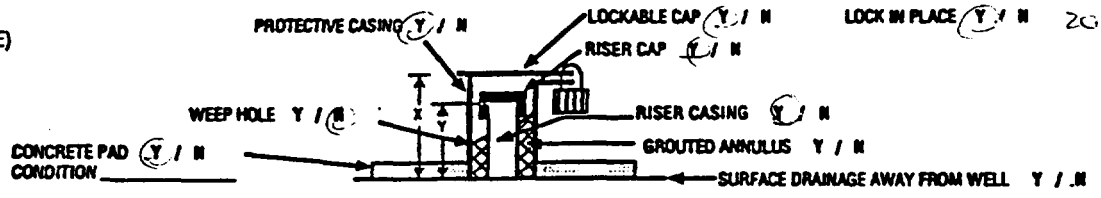
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: _____

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH (CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? (Y) / N NUMBER 2 DAMAGED: Y / (N)

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☒ ROUND ☐ MATERIAL STEEL COATING _____ NONE ☒

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 3.1 FT. PROTECTIVE CASING: I.D. _____ IN. O.D. _____ IN.

RISER CASING STICK-UP: Y = 2.52 FT. RISER CASING: I.D. _____ IN. O.D. _____ IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☒ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	GES	FLOATERS	SINKERS
TIME / DRY	13:30 DRY ☐	NO SEDIMENT ☐	
FROM MEASURE POINT, IF INDICATED =	59.50 FT.	____.____ FT.	67.24 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION =	____.____ FT.	____.____ FT.	____.____ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☒ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

EXISTING WELL EVALUATION

DATE 10/9/92 WELL TH-3

BY TCO, RT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFICATION (WELL):	[ ]	
TYPE WELL (TYPE__WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

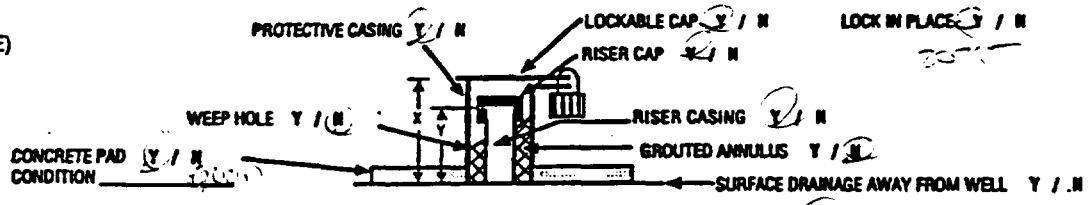
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: Good (RI)

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH
(CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? (Y) / N NUMBER: 2 DAMAGED: Y / (N)

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS☐ PVC☒ FIBERGLASS☐ STEEL☐ CMP☐ OTHER☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE☒

PROTECTIVE CASING: SQUARE☒ ROUND☐ MATERIAL Steel COATING _____ NONE☒

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 3.0 FT. PROTECTIVE CASING: I.D. 4" IN. O.D. 5" IN.

RISER CASING STICK-UP: Y = 2.65 FT. RISER CASING: I.D. 2" IN. O.D. 2" IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING☐ RISER CASING☒ GROUND SURFACE☐ NOT INDICATED☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	OWE		
TIME	16:55 DRY☐	NO SEDIMENT☐	23.13 TOC 10/9/92
FROM MEASURE POINT, IF INDICATED =	12.56 FT.	____.____ FT.	22.48 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION =	____.____ FT.	____.____ FT.	____.____ FT.

BOTTOM WELL CONDITIONS: SOFT☐ MOD. FIRM☒ FIRM☐ HARD☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

[ ] = EXISTING DATA FROM DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES WHERE APPROPRIATE

CHECKED BY _____

DATE _____

EXISTING WELL EVALUATION

DATE 6/7/92 WELL BH4

BY TCC BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	_____
TYPE WELL (TYPE __ WEL):	[ ]	_____
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	_____
(NORTHING):	[ ]	_____
(EASTING):	[ ]	_____
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	_____
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	_____
MEASURE POINT CORRECTION, FT. (MPC):	[305.19]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	_____
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		_____
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		_____
REF. POINT FOR MEASUREMENT (PMEASURE):		_____
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		_____

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

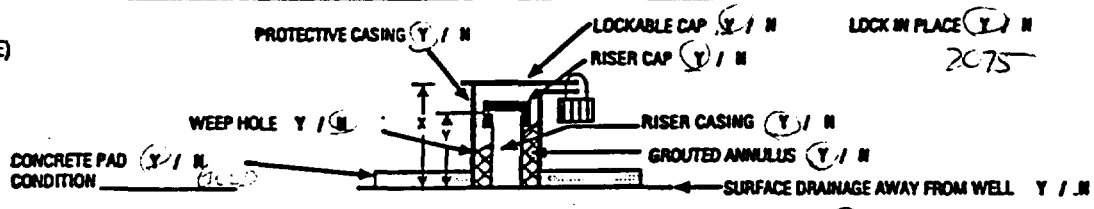
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: _____

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH (CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? (Y) / N NUMBER: 2 DAMAGED: (Y) / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☒ ROUND ☐ MATERIAL STEEL COATING _____ NONE ☒

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 2.72 FT. PROTECTIVE CASING: I.D. 4.7 IN. O.D. .5 IN.

RISER CASING STICK-UP: Y = 2.41 FT. RISER CASING: I.D. 3" SCH 40 PVC IN. O.D. _____ IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☐ GROUND SURFACE ☐ NOT INDICATED ☒

COMMENTS: PVC MARK ON PIC

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	CPS		
TIME / DRY	13:CA ☐	NAPL NO SEDIMENT ☐	
FROM MEASURE POINT, IF INDICATED =	3.88 FT.	4 FT.	NAPL 19.78 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	_____ FT.	_____ FT.	_____ FT.
FROM GROUND SURFACE =	_____ FT.	_____ FT.	_____ FT.
ELEVATION =	_____ FT.	_____ FT.	_____ FT.

(OFFICE CALCULATION)

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☒ FIRM ☐ HARD ☐

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES AS APPROPRIATE

CHECKED BY _____

DATE _____

EXISTING WELL EVALUATION

DATE 6/4/12 WELL B-5

BY TCO, RT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFICATION (WELL):	[ ]	
TYPE WELL (TYPE__WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? Y / N

IS WELL IDENTIFIED SAME AS DATA? Y / N

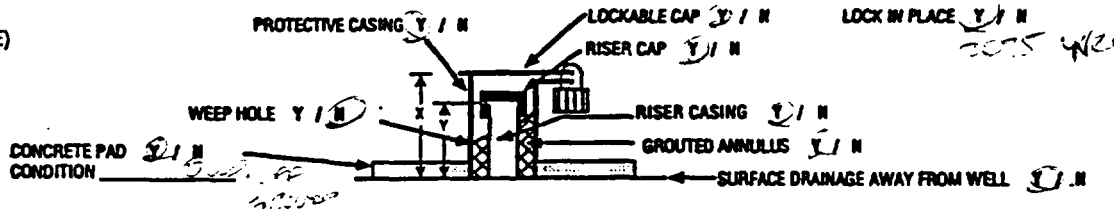
DOES LOCATION VISUALLY CONFORM TO DATA? Y / N

STATUS CORRECT? Y / N

COMMENTS: CONCRETE PAD MISSING AS WITH POSTS

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH
(CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / N NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / N CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / N MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / N

RISER CASING MATERIAL: SS ☐ PVC ☐ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☒ ROUND ☐ MATERIAL STEEL COATING _____ NONE ☒

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 3.5 FT. PROTECTIVE CASING: I. D. .47 IN. O.D. .5 IN.

RISER CASING STICK-UP: Y = 3.34 FT. RISER CASING: I. D. .18 IN. O.D. .2 IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☐ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD			
TIME	DRY ☐	NO SEDIMENT ☐	
FROM MEASURE POINT, IF INDICATED =	3.32 FT.	____ FT.	20.62 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____ FT.	____ FT.	____ FT.
FROM GROUND SURFACE =	____ FT.	____ FT.	____ FT.
ELEVATION =	____ FT.	____ FT.	____ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☐ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED
[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES AS APPROPRIATE

CHECKED BY _____

DATE

EXISTING WELL EVALUATION

DATE 6/4/92 WELL BH-6

BY TOC SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	_____
TYPE WELL (TYPE __ WEL):	[ ]	_____
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	_____
(NORTHING):	[ ]	_____
(EASTING):	[ ]	_____
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	_____
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	_____
MEASURE POINT CORRECTION, FT. (MPC):	[145.38]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	_____
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		_____
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		_____
REF. POINT FOR MEASUREMENT (PMEASURE):		_____
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		_____

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

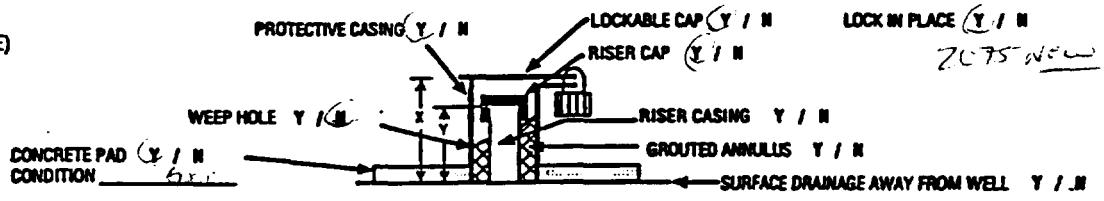
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: _____

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH (CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / N NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC (☒) FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE (☒)

PROTECTIVE CASING: SQUARE (☒) ROUND ☐ MATERIAL STEEL COATING _____ NONE (☒)

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 2.15 FT. PROTECTIVE CASING: I. D. .47 IN. O.D. .5 IN.

RISER CASING STICK-UP: Y = 1.76 FT. RISER CASING: I. D. _____ IN. O.D. _____ IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☐ GROUND SURFACE ☐ NOT INDICATED (☒)

COMMENTS: PVC MARK ON PVC RISER

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	ECS		
TIME	15:49		
	DRY ☐ DNAPL	NO SEDIMENT ☐ DNAPL	
FROM MEASURE POINT, IF INDICATED =	10.47 FT. —	____.____ FT. —	12.35 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION =	____.____ FT.	____.____ FT.	____.____ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☐ FIRM ☐ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

( ) = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES AS APPROPRIATE

CHECKED BY _____

DATE _____

EXISTING WELL EVALUATION

DATE 6/7/92 WELL AP-1

BY TW, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	_____
TYPE WELL (TYPE __ WEL):	[ ]	_____
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	_____
(NORTHING):	[ ]	_____
(EASTING):	[ ]	_____
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	_____
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	_____
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	_____
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		_____
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		_____
REF. POINT FOR MEASUREMENT (PMEASURE):		_____
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		_____

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

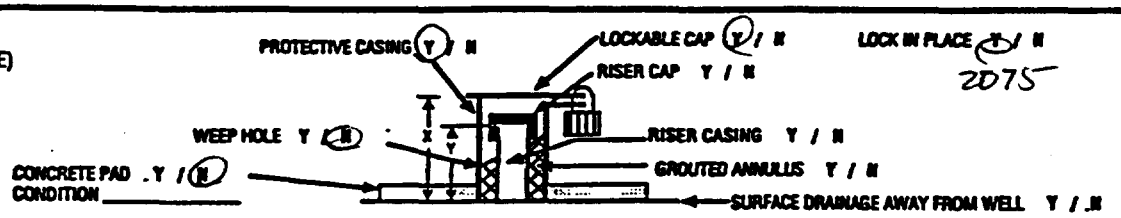
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: SURFACE COMPLETION IS BENT ON TOP, COMBO LOCK REPLACED WITH

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH (CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / N NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☐ ROUND ☒ MATERIAL _____ COATING _____ NONE ☐

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 3.0 FT. PROTECTIVE CASING: I.D. BENT IN. O.D. _____ IN.

RISER CASING STICK-UP: Y = 2.43 FT. RISER CASING: I.D. 2" SCH IN. O.D. _____ IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☒ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	ORS		
TIME	12:20 DRY ☐	LNAPL NO SEDIMENT ☐	PNAPL
FROM MEASURE POINT, IF INDICATED =	10.15 FT.	____.____ FT.	20.35 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	[illegible] FT.	[illegible] FT.	[illegible] FT.
ELEVATION =	[illegible] FT.	[illegible] FT.	[illegible] FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☐ FIRM ☒ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

EXISTING WELL EVALUATION

DATE 6/7/92 WELL AP-2

BY TCO, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE __ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

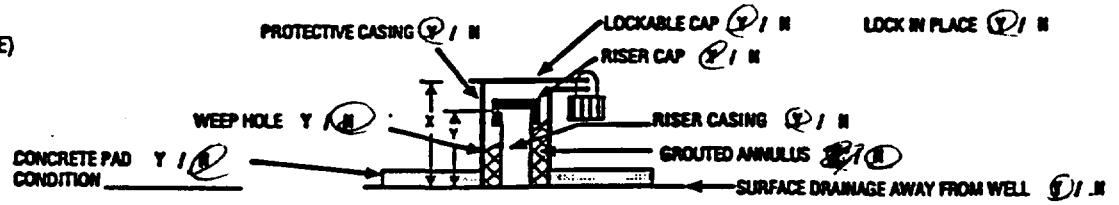
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: _____

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH (CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☒ ROUND ☐ MATERIAL STEEL COATING NONE NONE ☒

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 2.15 FT. PROTECTIVE CASING: I.D. .5 FT IN. O.D. .51 FT IN.

RISER CASING STICK-UP: Y = 2.__ FT. RISER CASING: I.D. _____ IN. O.D. _____ IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☐ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	OBS		
TIME	12:30 DRY ☐ LNAPL	NO SEDIMENT ☐ DNAPL	
FROM MEASURE POINT, IF INDICATED =	10.07 FT. ∅	___.___ FT. ∅	20.14 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	___.___ FT.	___.___ FT.	___.___ FT.
FROM GROUND SURFACE =	___.___ FT.	___.___ FT.	___.___ FT.
ELEVATION =	___.___ FT.	___.___ FT.	___.___ FT. (OFFICE CALCULATION)

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☐ FIRM ☒ HARD ☐

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

EXISTING WELL EVALUATION

DATE 6/7/92 WELL AP2A

BY TCO, BT SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE __ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? Y / (N)

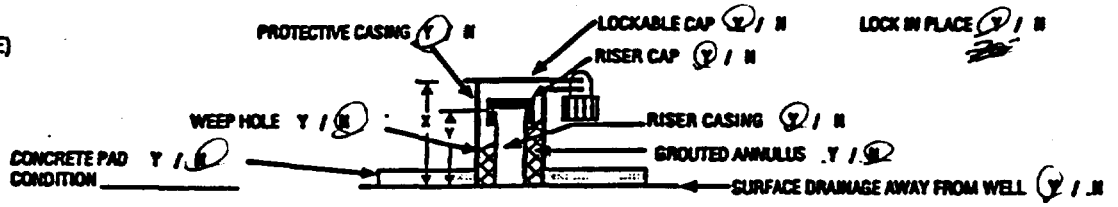
DOES LOCATION VISUALLY CONFORM TO DATA? Y / N

STATUS CORRECT? Y / N

COMMENTS: TOP DAMAGED

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH (CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☐

PROTECTIVE CASING: SQUARE ☐ ROUND ☒ MATERIAL _____ COATING _____ NONE ☐

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 2.17 FT. PROTECTIVE CASING: I.D. .54 IN. O.D. .55 IN.

RISER CASING STICK-UP: Y = 1.77 FT. RISER CASING: I.D. 2" SCH 40 PVC IN. O.D. _____ IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☒ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	ORS		
TIME	12:36 DRY ☐	NO SEDIMENT ☐	
FROM MEASURE POINT, IF INDICATED =	11.76 FT. LNAPL @	____.____ FT.	25.54 FT. DNAPL @
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION =	____.____ FT.	____.____ FT.	____.____ FT. (OFFICE CALCULATION)

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☐ FIRM ☒ HARD ☐

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

EXISTING WELL EVALUATION

DATE 6/7/92 WELL AP 7

BY _____ SERIAL NO. _____

IDENTIFICATION/LOCATION	DATA	RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[ ]	
TYPE WELL (TYPE __ WEL):	[ ]	
PI WELL NAME (WELLNUM):	[ ]	
LOCATION (GRID):	[ ]	
(NORTHING):	[ ]	
(EASTING):	[ ]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[ ]	
TOP OF CASING ELEVATION, FT. (TOC):	[ ]	
MEASURE POINT ELEVATION, FT. (MP):	[ ]	
MEASURE POINT CORRECTION, FT. (MPC):	[ ]	SEE BELOW
GROUND ELEVATION, FT. (GRND _ ELV):	[ ]	
TOP OF PROT. CASING ELV., FT. (TOP _ ELV):		
TOP OF RISER CASING ELV., FT. (TOC _ ELV):		
REF. POINT FOR MEASUREMENT (PMEASURE):		
MEASURE POINT ELEVATION, FT. (MPT _ ELV):		

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

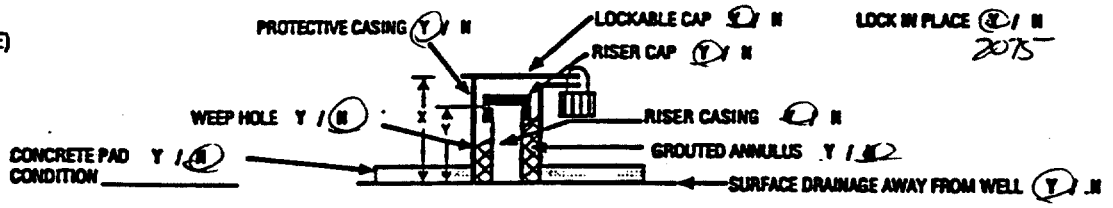
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: _____

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH (CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☐ ROUND ☒ MATERIAL STEEL COATING PAINTED NONE ☐

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 2.33 FT. PROTECTIVE CASING: I.D. .153 FT IN. O.D. .155 FT IN.

RISER CASING STICK-UP: Y = 2.20 FT. RISER CASING: I.D. 2" SCH 40 PVC IN. O.D. _____ IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☐ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	ORS		
TIME	12:49 DRY ☐ LNAPL	NO SEDIMENT ☐ DNAPL	
FROM MEASURE POINT, IF INDICATED =	16.80 FT. Ø	____.____ FT. Ø	31.60 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION	____.____ FT.	____.____ FT.	____.____ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☐ FIRM ☒ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES AS APPROPRIATE

CHECKED BY _____

DATE _____

EXISTING WELL EVALUATION

DATE 6/7/92 WELL AP-8

BY TCO, BT SERIAL NO. _____

IDENTIFICATION/LOCATION		DATA		RI/FS SURVEY*
WELL IDENTIFIER (WELL):	[		]	
TYPE WELL (TYPE__WEL):	[		]	
PI WELL NAME (WELLNUM):	[		]	
LOCATION (GRID):	[		]	
(NORTHING):	[		]	
(EASTING):	[		]	
(STATUS): 0 = DESTROYED, 1 = ACTIVE	[		]	
TOP OF CASING ELEVATION, FT. (TOC):	[		]	
MEASURE POINT ELEVATION, FT. (MP):	[		]	
MEASURE POINT CORRECTION, FT. (MPC):	[		]	SEE BELOW
GROUND ELEVATION, FT. (GRND_ELV):	[		]	
TOP OF PROT. CASING ELV., FT. (TOP_ELV):				
TOP OF RISER CASING ELV., FT. (TOC_ELV):				
REF. POINT FOR MEASUREMENT (PMEASURE):				
MEASURE POINT ELEVATION, FT. (MPT_ELV):				

WAS WELL FOUND? (Y) / N

IS WELL IDENTIFIED SAME AS DATA? (Y) / N

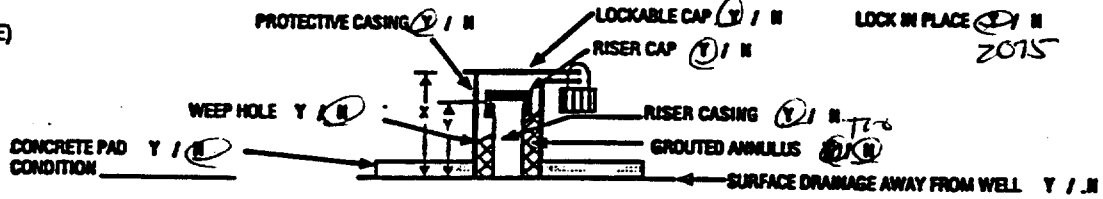
DOES LOCATION VISUALLY CONFORM TO DATA? (Y) / N

STATUS CORRECT? (Y) / N

COMMENTS: _____

WELL ACCESS WELL NOT ACCESSIBLE ☐ REASON: _____

WELL FINISH (CIRCLE RESPONSE)



☐ SEE BACK FOR SKETCH

GUARD POSTS PRESENT? Y / (N) NUMBER: ___ DAMAGED: Y / N

☐ FLUSH MOUNT: SANITARY SEAL? Y / (N) CONDITION _____

DEDICATED SAMPLING DEVICE IN PLACE? Y / (N) MANUFACTURER / TYPE: _____

IS RISER PERFORATED (OR SCREEN PRESENT) ABOVE GROUND SURFACE? Y / (N)

RISER CASING MATERIAL: SS ☐ PVC ☒ FIBERGLASS ☐ STEEL ☐ CMP ☐ OTHER ☐ _____

COATING (i.e., GALVANIZED, PAINT, ASPHALT, ETC.): _____ NONE ☒

PROTECTIVE CASING: SQUARE ☐ ROUND ☒ MATERIAL STEEL COATING PAINT NONE ☒ TCO

COMMENTS: _____

PHYSICAL MEASUREMENTS

PROTECTIVE CASING STICK-UP: X = 2.39 FT. PROTECTIVE CASING: I.D. 1.53 FT IN. O.D. .55 FT IN.

RISER CASING STICK-UP: Y = 2.19 FT. RISER CASING: I.D. 2" SCH 40 PIPE IN. O.D. _____ IN.

MEASURE POINT IS INDICATED AT TOP OF: PROTECTIVE CASING ☐ RISER CASING ☒ GROUND SURFACE ☐ NOT INDICATED ☐

COMMENTS: _____

DEPTH MEASUREMENTS

	WATER DEPTH	SEDIMENT DEPTH	TOTAL DEPTH
METHOD	ORS		
TIME	12:50 DRY ☐ LNAPL	NO SEDIMENT ☐ DNAPL	
FROM MEASURE POINT, IF INDICATED =	15.20 FT. ∅	____.____ FT. ∅	26.51 FT.
IF MP NOT INDICATED THEN FROM TOP OF RISER =	____.____ FT.	____.____ FT.	____.____ FT.
FROM GROUND SURFACE =	____.____ FT.	____.____ FT.	____.____ FT.
ELEVATION =	____.____ FT.	____.____ FT.	____.____ FT.

BOTTOM WELL CONDITIONS: SOFT ☐ MOD. FIRM ☐ FIRM ☒ HARD ☐ (OFFICE CALCULATION)

COMMENTS: _____

*OPTIONAL BASED ON RI/FS NEED

[ ] = EXISTING DATA FROM *DATA BASE - BLANK IF NONE FOUND

NOTE: USE MASTER TABLE CODES

CHECKED BY _____

APPENDIX E
WELL EVALUATION
RESULTS MEMO

Appendix E

Well Evaluation Results Memo

M E M O R A N D U M CH2MHILL

TO: Sharon Stone/Elmendorf AFB

COPIES: Joe Williamson/Elmendorf AFB
Dave Bunte/CH2M HILL ANC
Susan Schrader/CH2M HILL/ANC
Paul Thorne/EMO
Mike Warfel/CH2M HILL/SEA
Jess Brown/CH2M HILL/ANC

FROM: Tim O'Connor/CH2M HILL/SEA

DATE: August 24, 1992

SUBJECT: Monitoring Well Inspection Results

PROJECT: ANC 31026.F2.20

DRAFT

The results of the Monitoring Well inspection conducted at Elmendorf AFB in June, 1992 were used for the final selection of continuous water level monitoring well (CWLM) sites. In addition, a list of criteria were developed to evaluate the integrity of the monitoring wells.

The list of criteria is as follows:

- the monitoring well surface completion must be intact and lockable
- the monitoring well PVC must be in good condition and without obstructions
- the monitoring well must have a surface seal and a bentonite seal
-

Table 1 lists the monitoring wells which were: 1) not found during the field inspection and need abandonment, 2) were previously abandoned 3)or do not meet the specifications listed above.

Immediate action is needed for several wells, which is denoted by a asterisk in the well I.D. column.

OU-1

GW-1B	WELL ABANDONED BY JACOBS ENGINEERING IN 1992
GW-1C	SURFACE SEAL CRACKED
GW-2A	SURFACE SEAL CRACKED
GW-2C	SURFACE SEAL IN BAD CONDITION
W-2	

D13-01	ABANDONE, WELL NOT FOUND
D13-03	WELL ABANDONED BY JACOBS ENGINEERING IN 1992
NS2-01	SURFACE SEAL CRACKED
NS2-02	SURFACE SEAL CRACKED

OU-2

W-7	SURFACE SEAL IN BAD SHAPE, NEEDS NEW SEAL
W-8	PROTECTIVE CASING LOOSE AROUND PVC
ST-41-01	SURFACE SEAL AFFECTED BY FROST HEAVE
ST-41-02	SURFACE SEAL CRACKED
ST-41-07	SURFACE SEAL AFFECTED BY FROST HEAVE
ST-41-08	SURFACE SEAL AFFECTED BY FROST HEAVE
ST-41-20	SURFACE SEAL AFFECTED BY FROST HEAVE
ST-41-22	SURFACE SEAL AFFECTED BY FROST HEAVE
ST-41-23	SURFACE SEAL AFFECTED BY FROST HEAVE
ST-41-29	SURFACE SEAL DETERIORATED
ST-41-30	ABANDONE, WELL NOT FOUND
ST-41-31	SURFACE SEAL AFFECTED BY FROST HEAVE
ST-41-33A	NO CONCRETE SURFACE SEAL
ST-41-34	CONCRETE PAD IN POOR SHAPE
ST-41-35	SURFACE SEAL BROKEN
ST-20-01	NON-WATER TIGHT FLUSH MOUNT SEAL OR CASING SEAL
ST-20-03	NON-WATER TIGHT FLUSH MOUNT SEAL OR CASING SEAL
ST-20-04	NON-WATER TIGHT FLUSH MOUNT SEAL OR CASING SEAL
ST-20-05	NON-WATER TIGHT FLUSH MOUNT SEAL OR CASING SEAL
B1MW	PROTECTIVE CASING DESTROYED
B2MW	PROTECTIVE CASING NEEDS REPAIR
B3MW	PROTECTIVE CASING NEEDS REPAIR
B4MW	PROTECTIVE CASING DESTROYED

DRAFT

OU-3

W-11	ABANDONE, WELL LOCATED IN "RUNWAY SNOWMELT", PVC BAD
W-12	ABANDONE, WELL NOT FOUND

OU-4

IS1-01	PROTECTIVE CASING NEEDS REPAIR
IS2-01	NEEDS 1 BOLT AND EXPANDING CAP
IS3-01	PROTECTIVE CASING NEEDS REPAIR
IS4-01	PROTECTIVE CASING NEEDS REPAIR
IS5-01	NEEDS 1 BOLT
IS6-01	PROTECTIVE CASING NEEDS RUBBER SEAL
IS7-01	ABANDONE, WELL COVERED BY ASPHALT AS REPORTED BY D&M

OU-5

SP4-01	SURFACE SEAL IN POOR CONDITION
SP4-02	SURFACE SEAL IN POOR CONDITION

SP4-03	FROST HEAVE, LOOSE SURFACE COMPLETION
GW-4A	SURFACE COMPLETION IN POOR SHAPE, WELL NOT SECURE
W-14	NO BENTONITE SEAL, SCREEN UP TO SURFACE, CUT PVC
W-16	SURFACE SEAL IN POOR SHAPE
NS3-06	LOCATE AND ABANDONE

OU-6

D3-02	OBSTRUCTION IN WELL, ABANDONE
D3-03	LOCATE AND ABANDONE
K-301	NO SURFACE SEAL
K-302	NO SURFACE SEAL
K-303	NO SURFACE SEAL
K-304	
K-305	
K-306	
K-308	
K-309	
K-310	

DRAFT

OU-7

FP-51	NO CONCRETE PAD
FP-52	NO CONCRETE PAD
FP-53	NO CONCRETE PAD, LID NEEDS REPAIR
FP-55	NO CONCRETE PAD

POL

SP7/10-03	PVC HAS COUPLER 2' DOWN
W-3	CONCRETE PAD BROKEN
W-4	NO CONCRETE PAD
PT-01	CONCRETE PAD CRACKED
GW-3A	CONCRETE IN BAD SHAPE
W-9	NO CONCRETE PAD
GW-7A	CONCRETE PAD CRUMBLED
W-17	CASING DAMAGED, OBSTRUCTED, ABANDONE
SP15-02	NEEDS EXPANDABLE CAP

UST

T40001	NO CONCRETE PAD
T40905	NO CONCRETE PAD
T41206	NO CONCRETE PAD
T40107	NO CONCRETE PAD
T40304	NO CONCRETE PAD
T41709	NO CONCRETE PAD
T42202	NO CONCRETE PAD
T40503	NO CONCRETE PAD
T42810	NO CONCRETE PAD

BACKGROUND

BH-2 LOCATE AND ABANDONE
BH-5 FROST HEAVE LIFTED CONCRETE PAD

DRAFT

APPENDIX F
RST MAINTENANCE AND OPERATIONS MANUAL

Appendix F

RST Maintenance and Operations Manual

RST Maintenance and Operation Manual

Continuous Water Level Monitoring Network, Elmendorf AFB, Anchorage, Alaska

A network of data loggers and transducers was installed on Elmendorf AFB to track:

- seasonal and long-term water level trends in the shallow and confined aquifer
- interaction between the shallow and confined aquifers
- interaction between the shallow aquifer and surface water.

The data loggers and pressure transducers were set up in monitoring wells, base water supply wells, and in Ship Creek. Most data loggers were installed in PVC housings attached to the well casing with vandal-proof caps. In base water supply well 40, the data logger was installed inside the large-diameter casing.

The logger is simple to operate. The basic steps for operation are to:

- install data logger and pressure transducer
- set up for long-term monitoring
- download data
- recalibrate logger and transducer.

The configuration of the data loggers is the same at each site. The data loggers are set up to read depth to water at the monitoring wells, base water supply wells, and gauging stations.

If questions arise during installation, call:

Tim O'Connor
CH2M HILL
Bellevue, WA
(206) 453-5000

Robert Taylor
RST Instruments
Coquitlam, BC
(604) 941-4848

Vince Vermeul
Battelle PNL
Richland, WA
(509) 376-8316

Steve Drussel
RST Instruments
Yakima, WA
(509) 966-1254

Installing Data Logger Software

The following instructions describe the directory structure required by the data logger software. These instructions should be followed when installing the software on the hard drive of the field computer.

- Create a directory on the C drive called "RST."
- Create the following subdirectories within the RST directory: FMT, DAT, RAW, PRO, TXT, MAX, MIN, AVG, CMD.

- Copy from the floppy disk file *.* to C:\RST.

- Copy the files in each subdirectory on the floppy disk to the subdirectories on the hard drive.

From the main menu, select SETTINGS/DISK. Change all the paths to C:\RST\... Remove the disk from A:, and select EXIT from the main menu. Select KEEP to store the new pathways.

Operating the Data Logger

Under normal operation, the operator downloads the data, verifies that the data have been downloaded, translates and checks the data, copies the raw data file to the floppy disk, resets the memory, and monitors the water level. A manual water level measurement is collected and compared to the data logger output. If the water levels are within 0.05 foot, the data logger is considered to be in calibration; if the difference is greater, the data logger must be recalibrated.

Installing the Data Logger and Pressure Transducer

The data logger and pressure transducer should be installed in a housing that locks securely. The transducer range in feet is 2.31 times its psig rating (example: a 10-psig transducer will record changes in water levels up to 23.1 feet, a 20-psig transducer will record changes of up to 46.2 feet). Damage may occur if the transducer is submerged past its full scale range.

The fluctuation of water levels in the well or creek will affect the depth at which the pressure transducers are set. A base supply well may have fluctuations of 50 feet. Monitoring wells may fluctuate 4 to 6 feet over the course of a year. All transducers located in monitoring and base supply wells should be set at a depth accommodating the full range of expected water level fluctuations. A transducer being used to monitor a pump test should be set near its maximum depth to allow for drawdown. If the transducer is to be placed in water less than 20 feet deep, it should be set approximately 6 inches above the bottom.

Collect a depth-to-water measurement and determine the depth at which to set the transducer. Using a steel tape or water level indicator, measure off the appropriate distance from the port on the pressure transducer; make a mark on the cable with a permanent marker, and record the depth for the specific location in the Water Level Data Collection and Data Logger Maintenance table (see Attachment 1). Also, record information necessary to complete the form (serial numbers, transducer type, range, and data logger type).

Setting up a Station for Long-term Data Collection

Set computer time and date if they are not consistent with current date and Alaska Standard Time (AST)

- In DOS type C:\time → set time to standard time
- In DOS type C:\date → set date if incorrect

The CWLM network should record in AST; to check the date and time of the logger:

- Select **MONITOR**

- Select **CLOCK**

- If date and time are correct you may proceed

- If the date or time is not consistent with the current date and AST then:

    1. If you are recalibrating a station, make sure data stored in memory has been downloaded before setting the station's clock. SETTING THE STATION'S CLOCK WILL CLEAR ALL DATA FROM THE STATION'S MEMORY.

    2. If you are setting up a new station, you may reset the clock now.

- Reset the station's clock:

    - Select **PROGRAM**
    - Select **TIMESET**
    - Hit enter twice to use computer's data and time (which has been previously set to AST
    - Exit back to main menu
    - Select **MONITOR**
    - Select **MONITOR**
    - Check data loggers time
    - Return to main menu
    - Escape back to main menu

Set up the data logger for long-term data collection.

- Select **FILE** from the RST main directory
- Select **FORMAT**
- Select **LOAD**

Choose either the SUB10 or SUB20 file; these format files scale the output to read submergence for a 10 or 20 psi, respectively. Exit back out to the main menu. Note that the current format file displayed in the lower right corner of the screen is the format file just selected.

- Select **MONITOR**
- Select **MONITOR**

The submergence of the transducer should appear on the screen; note this value and a depth-to-water measurement taken with the solinst water level indicator on the Water Level Data Collection and Data Logger Maintenance form.

- Hit escape twice to return to the main menu

To build library and generate format file:

- Select **FILE**

- Select **LIBRARY**

- Select **REVISE**
- Select library:
  - If recalibrating a station, select the station's library file from the list.
  - If setting up a new station, select a disabled station.
- Turn on analog channel by typing Y>RETURN
  - Name: EAFB>RETURN
  - Description: 10 or 20 PSIG, name of well or gauging station. >Return (e.g., 10 PSIG BW-50)
  - Hit F1 on coefficient 0 to conduct a least squares fit.

  Type .5, (S+DTW)>RETURN
  2.5, (S+DTW-FSR)>RETURN,
  999,999>RETURN

Where:

S	=	Submergence of transducer (monitored with probe)
DTW	=	Depth to water (solinst water level indicator)
FSR	=	Full-scale range (23.1 feet for 10 psi, 46.2 feet for 20 psi)

- Degree of polynomial to be fitted? 1>RETURN
- Continuation options: select 6, >RETURN
- Enter coefficients on the CWLM Water Level Data Collection and Data Logger Maintenance form
- RETURN through questions back to library menu
- Select **KEEP**
- Exit twice to return to main menu

You now have a library built; next generate a format file:

From the main menu:

- Select **PROGRAM**
- Select **MODIFY**
- Select **CHOOSE**
- Select EAFB.DAT>RETURN

- Select format file
  - If you are recalibrating an existing station, select the well location.FMT file
  - If you are setting up a new station, select RST.FMT
- Right arrow down to Analog 1 channel (do not use up or down arrow as this will change the header information)
- Use up and down arrow to select correct library
  - Never select on first line; this represents the last selected library.
- Move over to Analog 2 with the right arrow key
- Hit ESC to exit the table
- Type well number>return (this will be the name assigned to the format file just generated).
- Type Y (this makes the format file current)
- Hit ESC, DO NOT save .DAT file
- Exit twice to return to main menu
- Select **MONITOR** from main menu
- Select **MONITOR**
- Depth to water will appear in Analog 1
- Compare this number to the manual water level
- If the numbers are within .02 foot, record in transducer column on the CWLM Water Level Data Collection and Data Logger Maintenance form. If not within .02 foot, recalibrate
- Exit twice to return to main menu

Start the data logger collecting data by:

- Select PROGRAM>
- Select HEADER>
- Select EAFB.DAT>return
- Enter data logger number 1>return
- Enter well number>return

- Enter delayed time start on a 3-hour interval (i.e., 03:00:00, 06:00:00...)
- Exit twice to get back to main menu
- Select **MONITOR**
- Select **STATUS**
- Check date, time, well number, next recording, sampling rate (3 hours), and Analog 1 range should be +2.5 volts; all others should be 0.0
- Escape back to main menu, quit the program if finished with installation

Note: Never select ACC RESET, TIME SET, or HEADER without first downloading and backing up the data in memory; selections reset the pointer, which causes all data in the logger's memory to be lost!

Downloading Data

Following one month of data collection the operator should

- Download the data in memory.
- Check the downloaded data to determine that the equipment is working correctly and that the file has been transferred to a backup disk.
- Check the battery voltage, and replace battery if below 40 percent in **MONITOR (STATUS)**.
- Check the desiccant pack and replace, if necessary.
- Check the calibration of the data logger and, if necessary, recalibrate (see recalibration section on next page).
- Restart the data logger on a delayed start time.

Downloading and backing up data:

- Collect a manual water level. Note the date, time, and depth to water on "Water Level Data Collection and Data Logger Maintenance" form
- From the main menu select RETRIEVE
- Select REC.DATA

The logger will automatically name the file, which must be changed to reflect the well name and downloading date. Name the file by the CWLM location followed by the date of data downloading. Downloading will not interrupt the data collection.

Example:

WELL SP2/6-01
DOWNLOADED ON 09/08/92
FILENAME = SP260908

Enter this new filename on the form, then:

- Select **FILE**
- Select **FORMAT**
- Select **LOAD**
- Select **WELLNUMBER.FMT >RETURN**
- Select **TRANSLATE**
- Select **TEXT-PRN**
- Select **ENTIRE**
- Select **FILENAME.RAW >RETURN**

Escape back to main menu

- Select **VIEW**
- Select **TABLE**
- Select **PRN**
- Select **FILENAME.PRN**

View the file to assure the data logger has been collecting data for the time period specified.

To check the calibration:

- Select **MONITOR**
- Select **MONITOR**

Write the transducer "Depth-to-Water" reading in the transducer column of the CWLM Water Level Data Collection and Data Logger Maintenance form.

Note: The submergence of the transducer should be noted on the form:

- Select **FILE**
- Select **FORMAT**
- Select **LOAD**
- Select SUB10 or SUB20.FMT depending on the transducer installed
- Escape twice to return to the main menu
- Select **MONITOR**
- Select **MONITOR**

- Write this number in the submergence column on the CWLM Water Level Data collection and Data Logger Maintenance form

- If this number is less than 3.0 feet or greater than 20 (for a 10 psig) or 40 (for a 20 psig), the transducer should be reinstalled in its midrange (i.e., 10 feet of submergence for 10 psig or 20 feet of submergence for a 20 psig). See setting up a station for 10 mg term data collection.

Note: The submergence for well BH-6 and the two gauging stations may be less than 3 feet because of the total depth of the installation and available water.

Recalibration should be performed if the manual depth to water measured with the water level indicator and the calculated depth to water measured with the pressure transducer have a difference of .05 foot or more.

- If the transducer number is within .05 foot of the manual depth to water. Check the battery voltage (**MONITOR/STATUS**) and transducer submergence then proceed to the header.

- If the transducer number is not within .05 foot of the manual depth to water, check to see if the cable has moved. If the cable has moved, resecure so it will not move, and recalibrate the instrument. See "Setting up a Station for Long Term Data Collection to Recalibrate."

Send program header (if the data has been uploaded, translated, and verified).

- Select **PROGRAM**
- Select **HEADER**
- Select **EAFB.DAT**
- The data logger number **1 >RETURN**
- Enter the monitoring location **WELLNUM**
- Enter the delayed start time; this should be a multiple of 3 (i.e., 03:00.00, 06:00.00...)

Maintaining the Equipment

The data loggers' batteries are designed for long-term monitoring in cold weather. The lithium batteries are guaranteed by the manufacturer for 1 year of uninterrupted operation.

The pressure transducers are vented through a small tube that allows the pressure to be measured relative to atmospheric pressure. Moisture may plug the tube, resulting in a measurement of pressure relative to some unknown pressure in the vent tube. Desiccant packs installed in the protective housings prevent moisture buildup in the vent tube.

The desiccant pack is filled with moisture-absorbent material that must be changed when it turns pink. The desiccant can be dried for reuse according to the manufacturer's instructions.

Decontamination

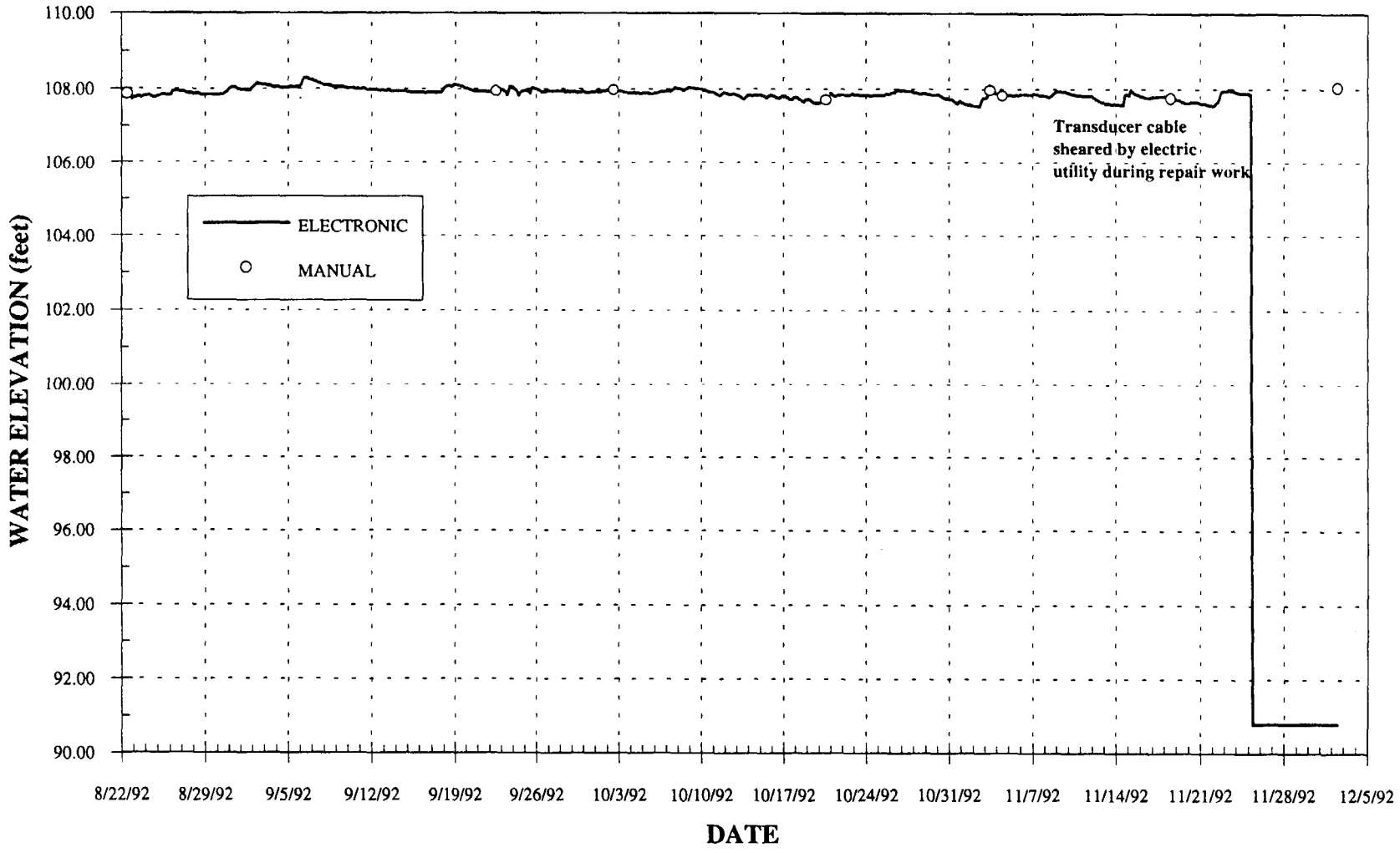
Water level equipment transducers and cables shall be decontaminated with alconox and a distilled water rinse before being transferred to another well or shipped to a manufacturer. When decontaminating the transducer cable, care should be taken to keep water out of the vent tube.

APPENDIX G
CWLM DATA

Appendix G

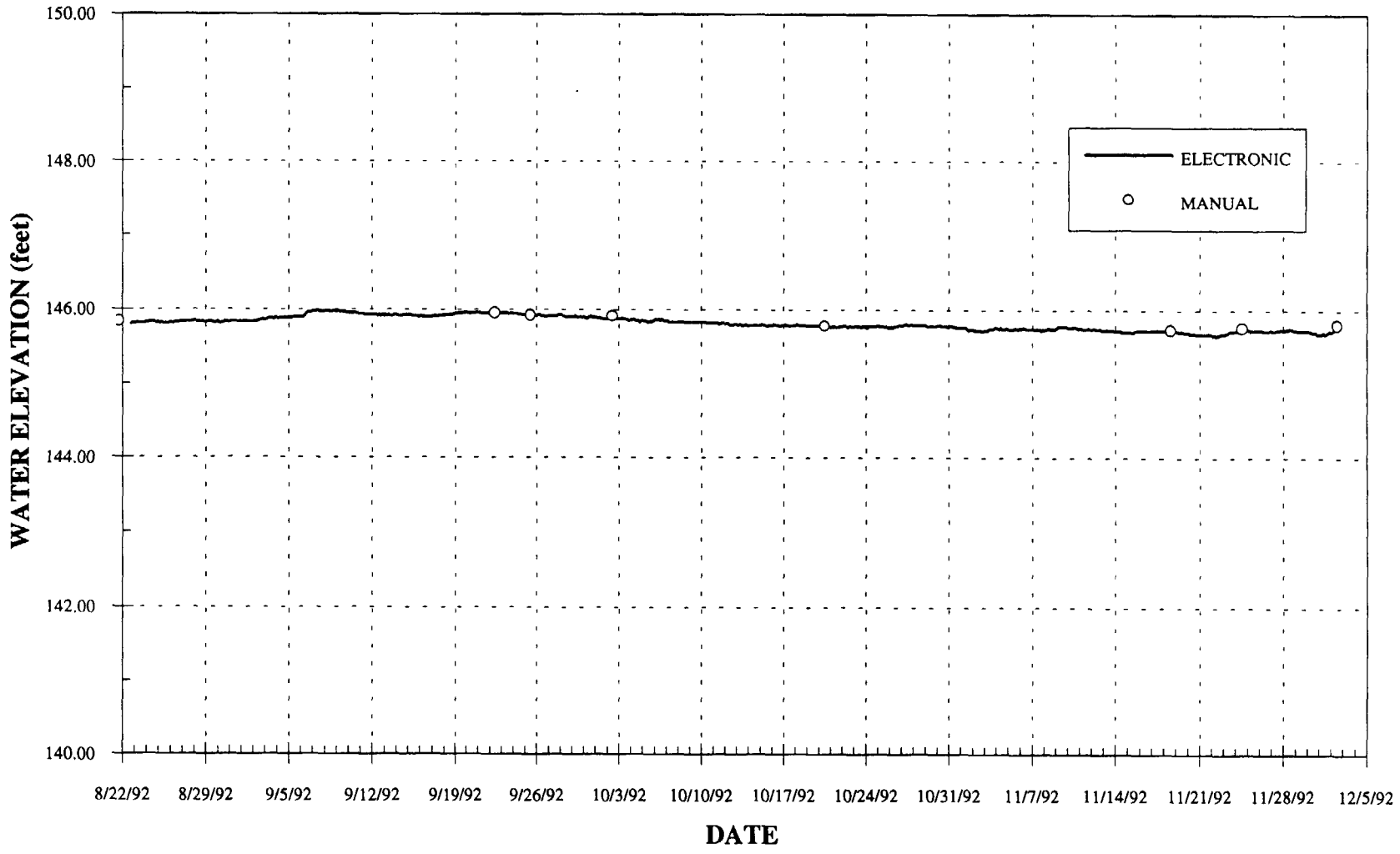
CWLM Data

ELMENDORF
MONITORING WELL
NS3-03



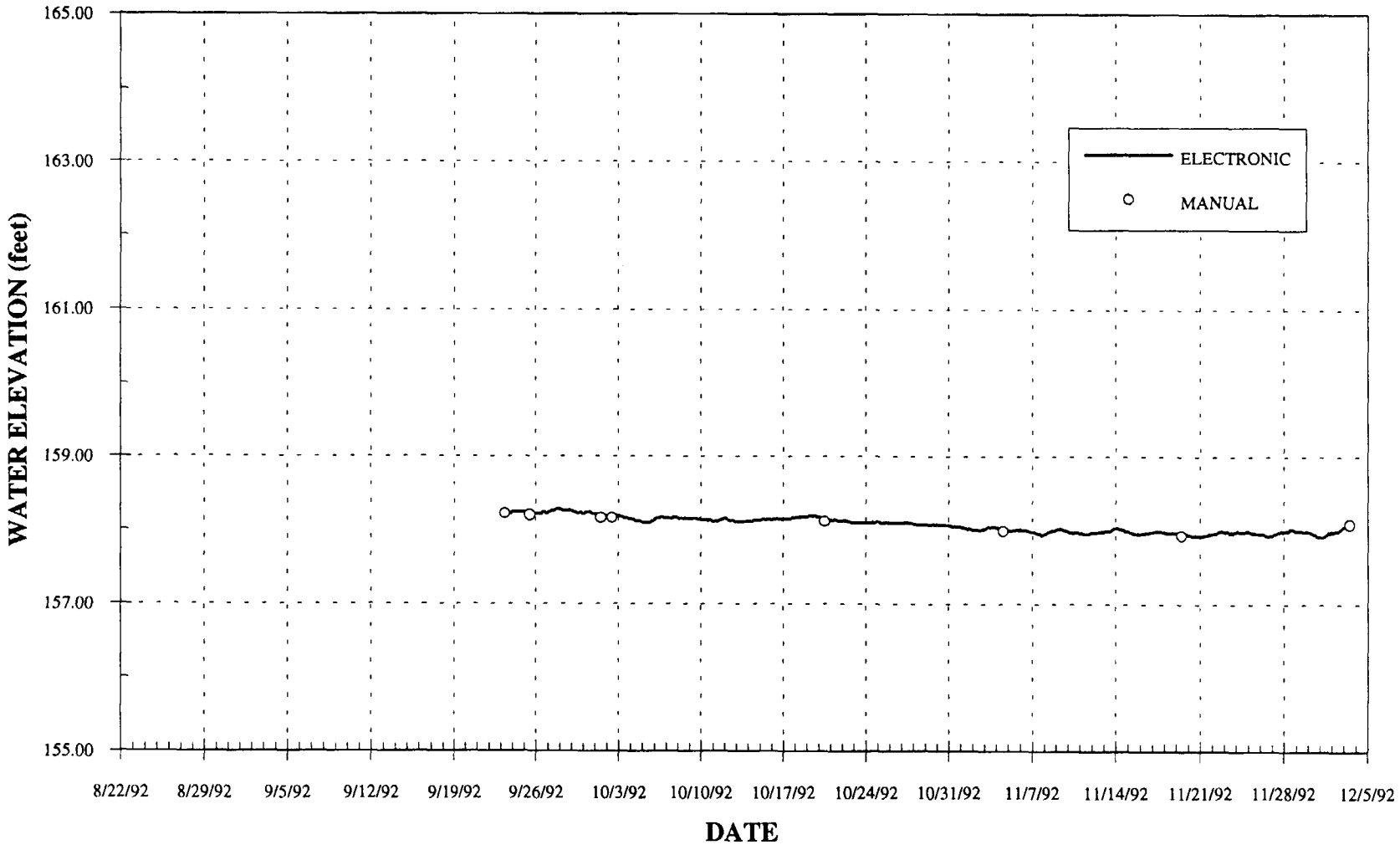
NS3-03.XLC - 12/17/92

ELMENDORF
MONITORING WELL
SP14-02



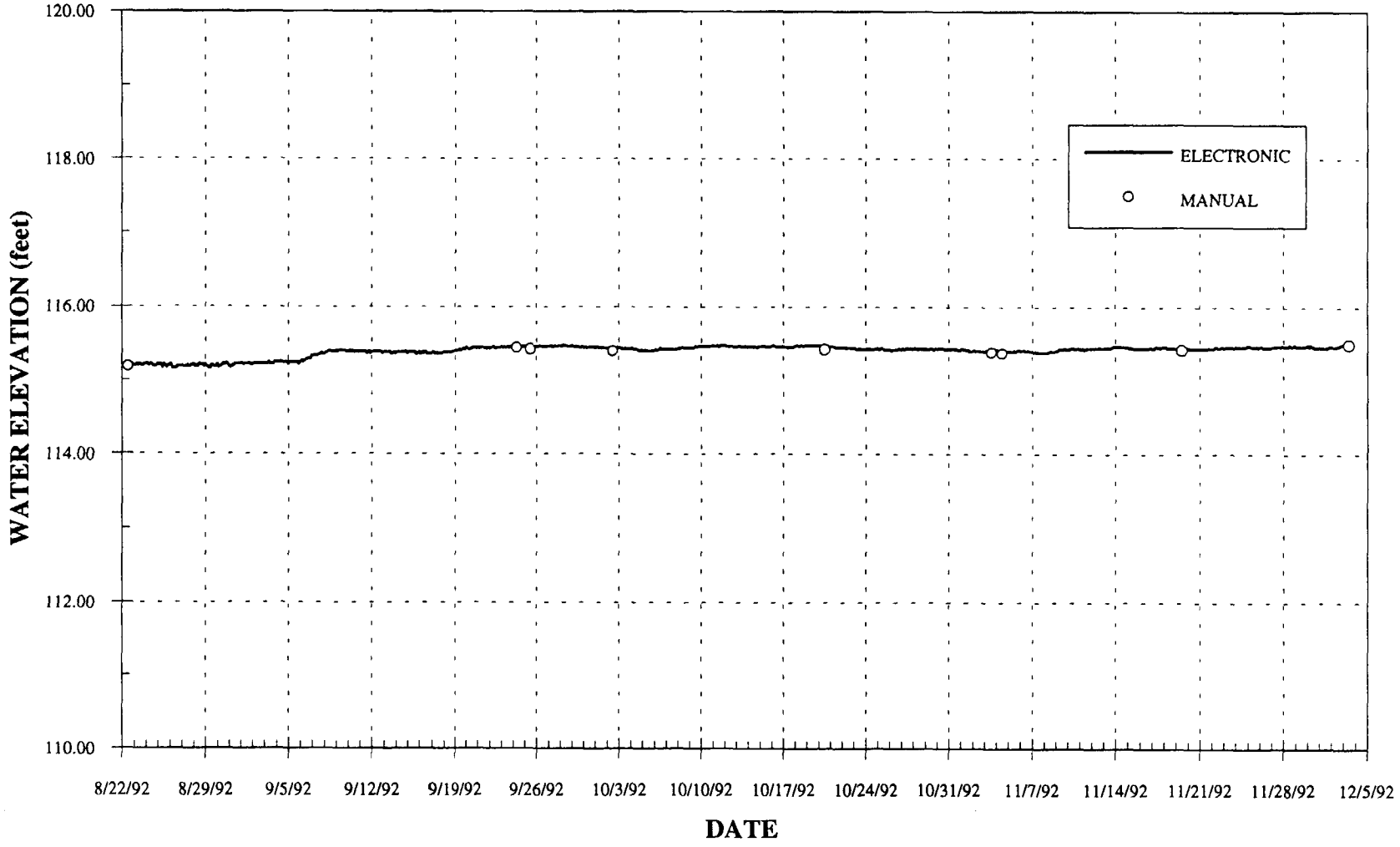
SP14-02.XLC - 12/17/92

ELMENDORF
MONITORING WELL
SP15-1



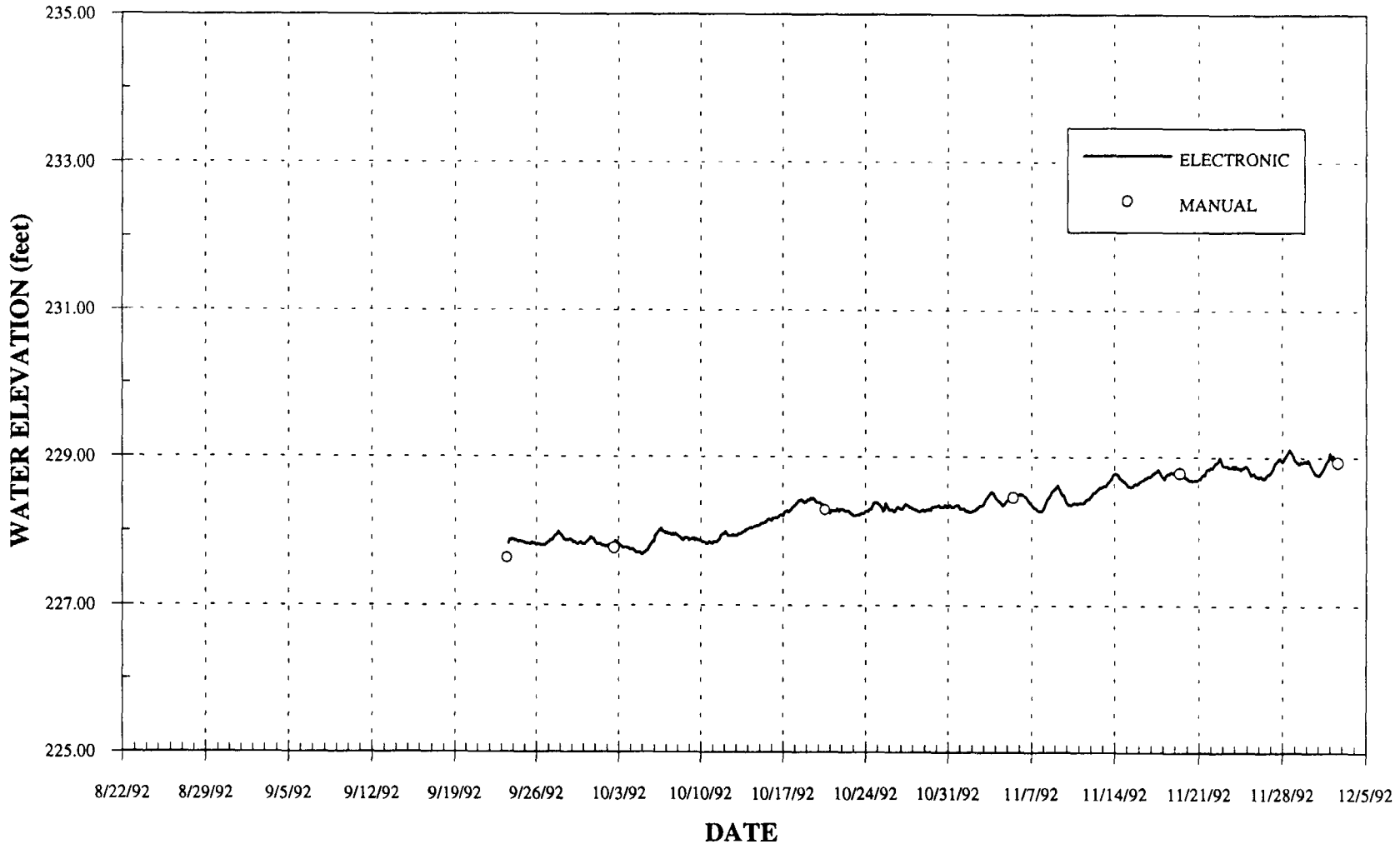
SP15-1.XLC - 12/17/92

ELMENDORF
MONITORING WELL
SP2/6-01



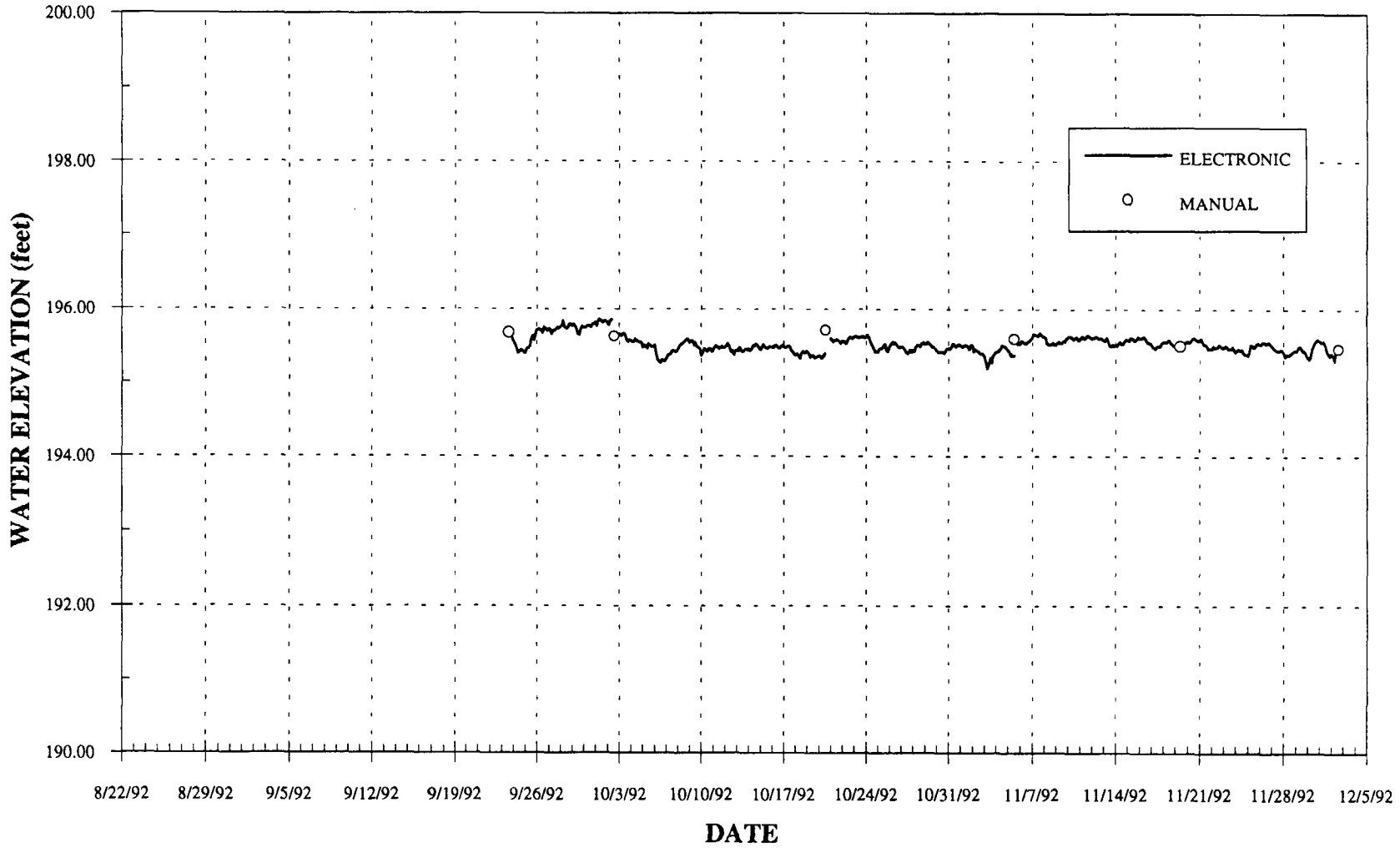
SP26O1.XLC - 12/17/92

ELMENDORF
MONITORING WELL
ST-41-18



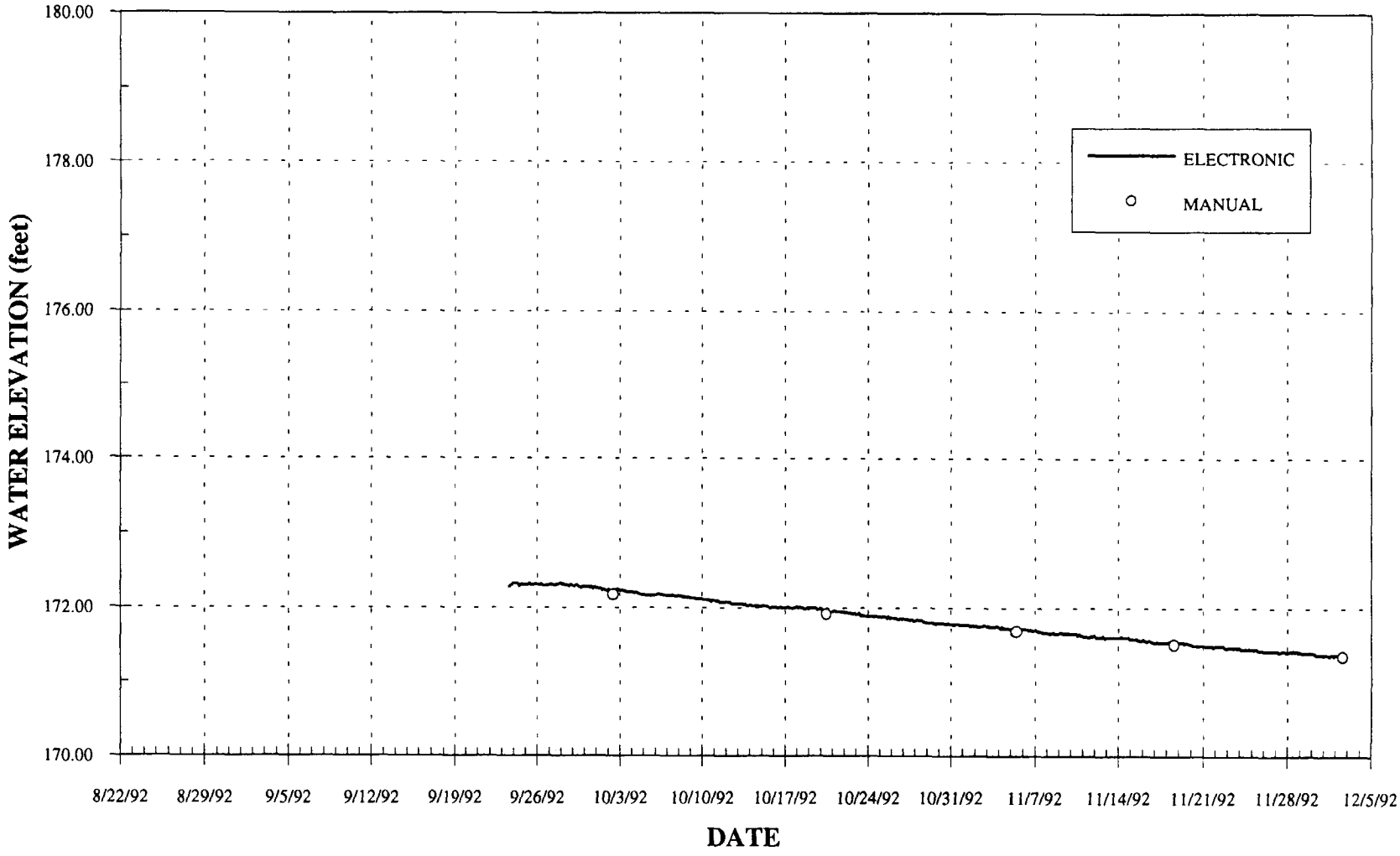
ST4118.XLC - 12/17/92

ELMENDORF
MONITORING WELL
T40503



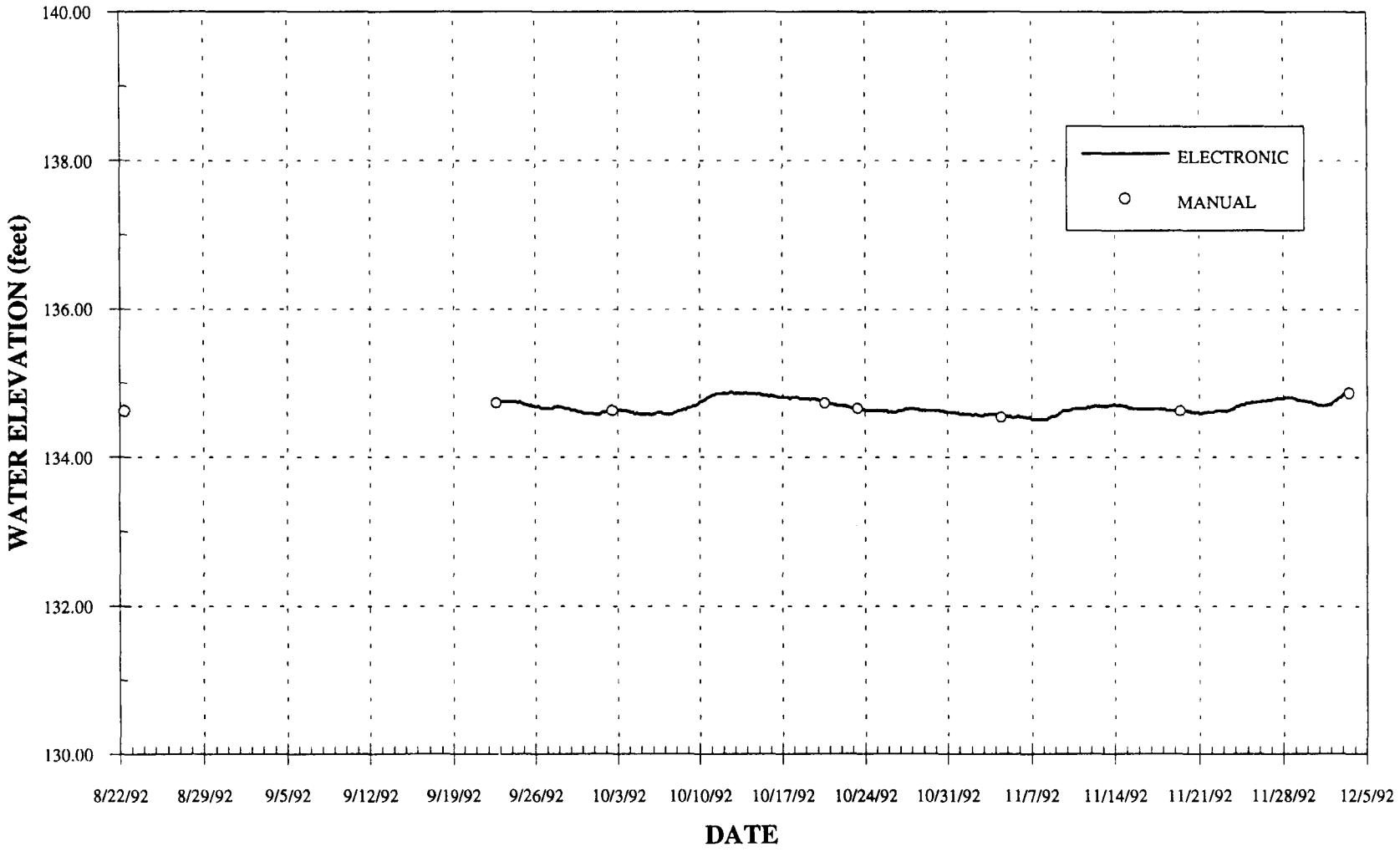
T40503.XLC - 12/17/92

ELMENDORF
MONITORING WELL
BH-1



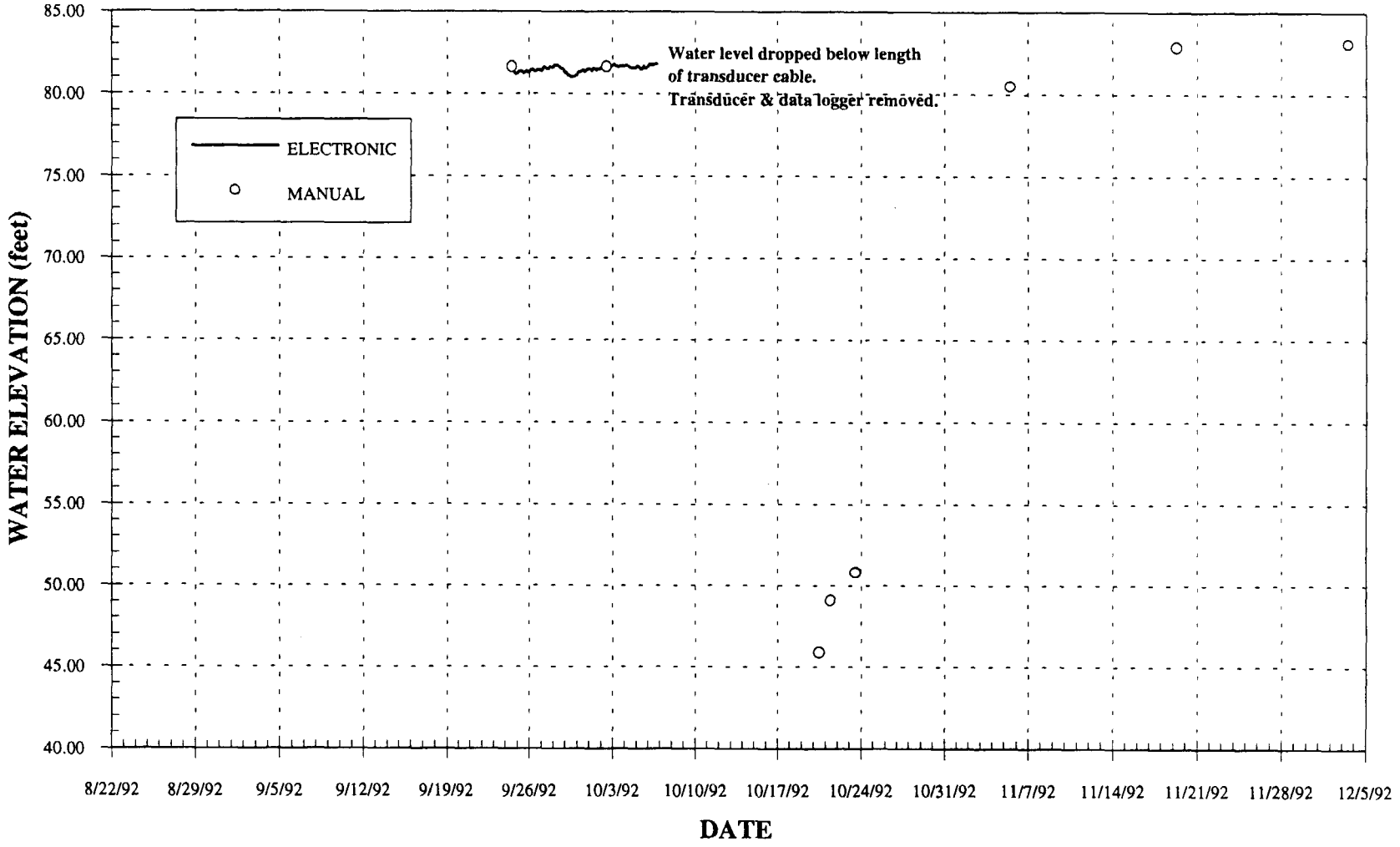
BH-1.XLC - 12/17/92

ELMENDORF
MONITORING WELL
BH-6



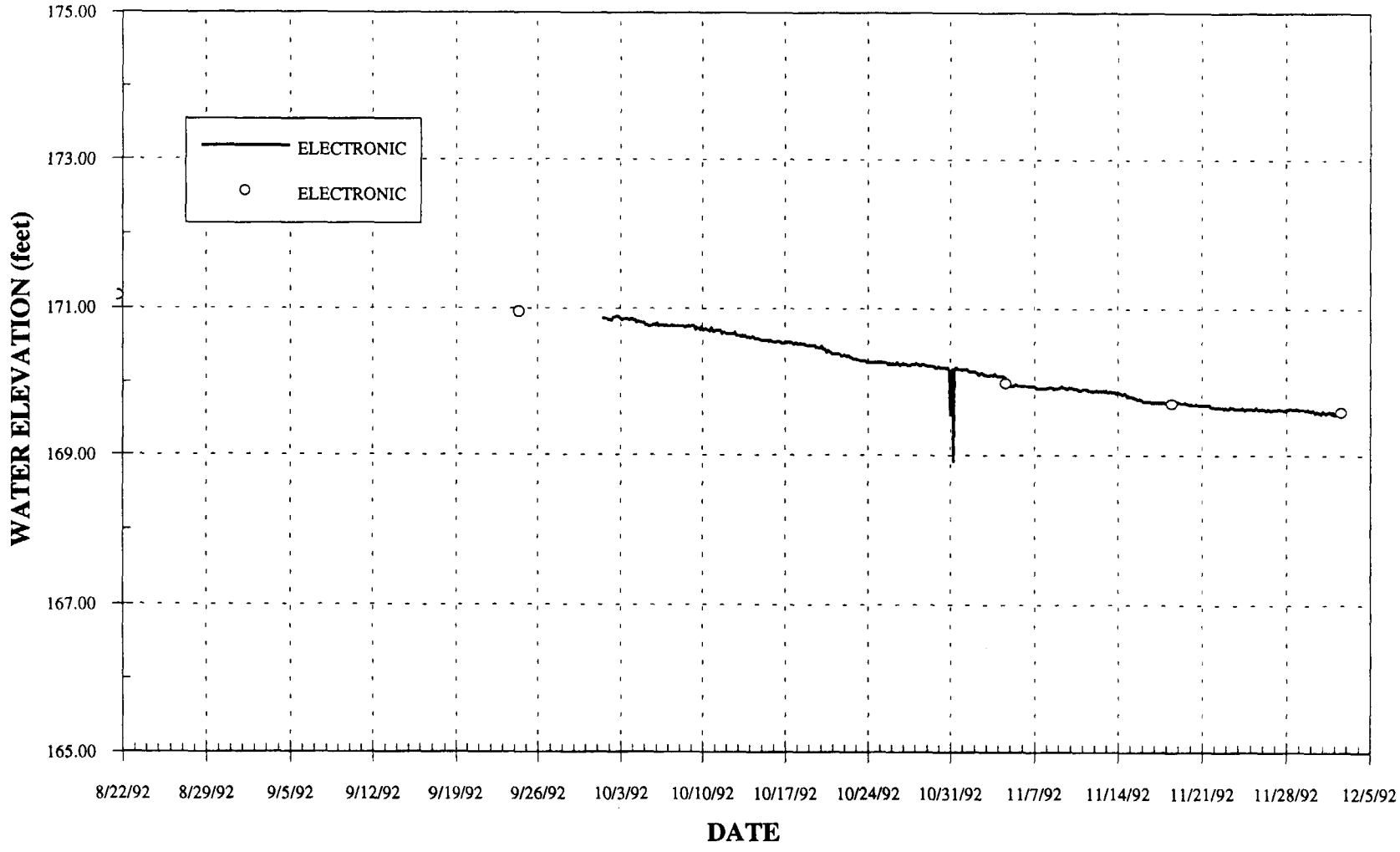
BH-6.XLC - 12/17/92

ELMENDORF
BASE SUPPLY WELL
BW-40



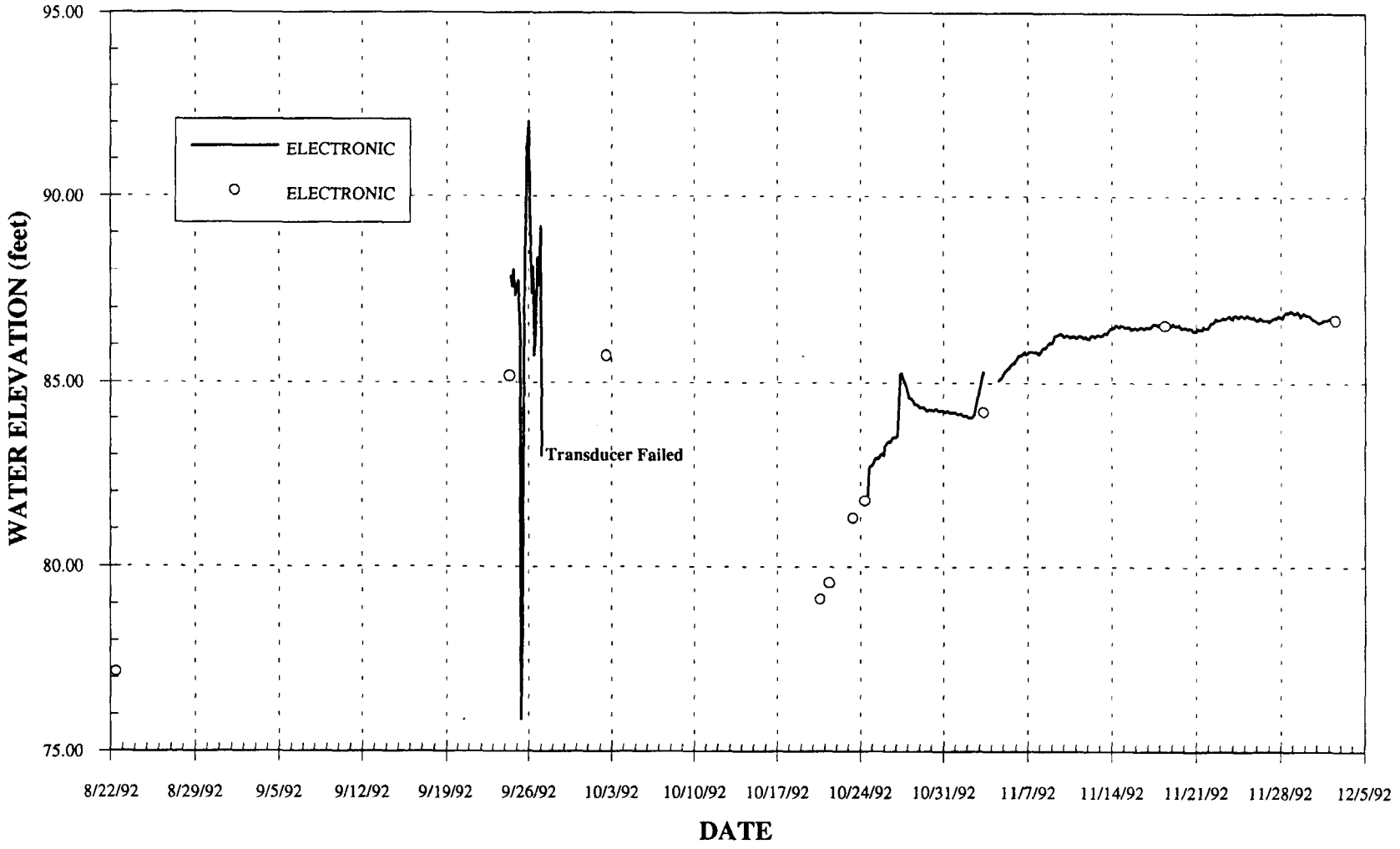
BW40.XLC - 12/17/92

ELMENDORF
BASE SUPPLY WELL
BW-50



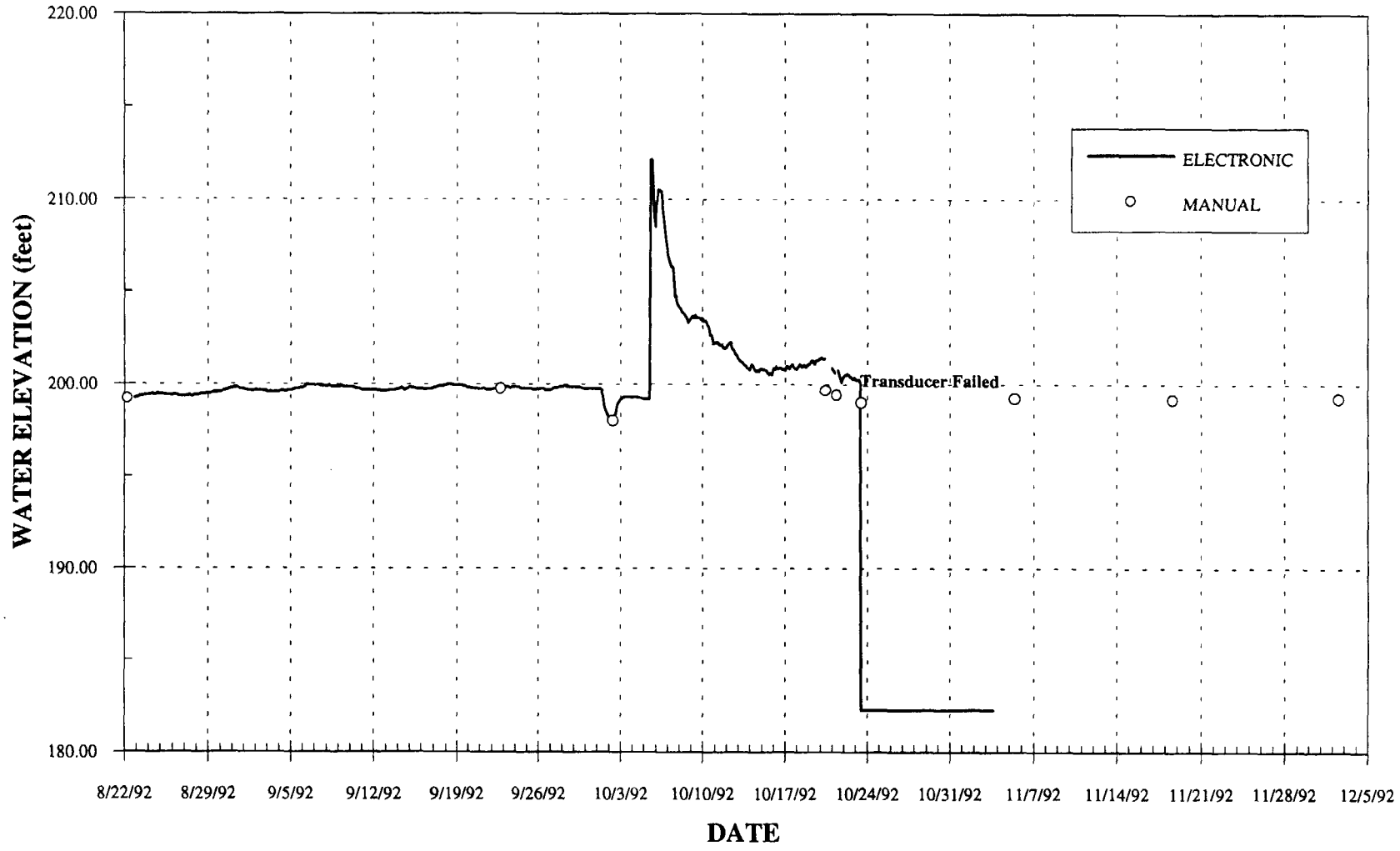
BW50.XLC - 12/17/92

ELMENDORF
BASE SUPPLY WELL
BW-52



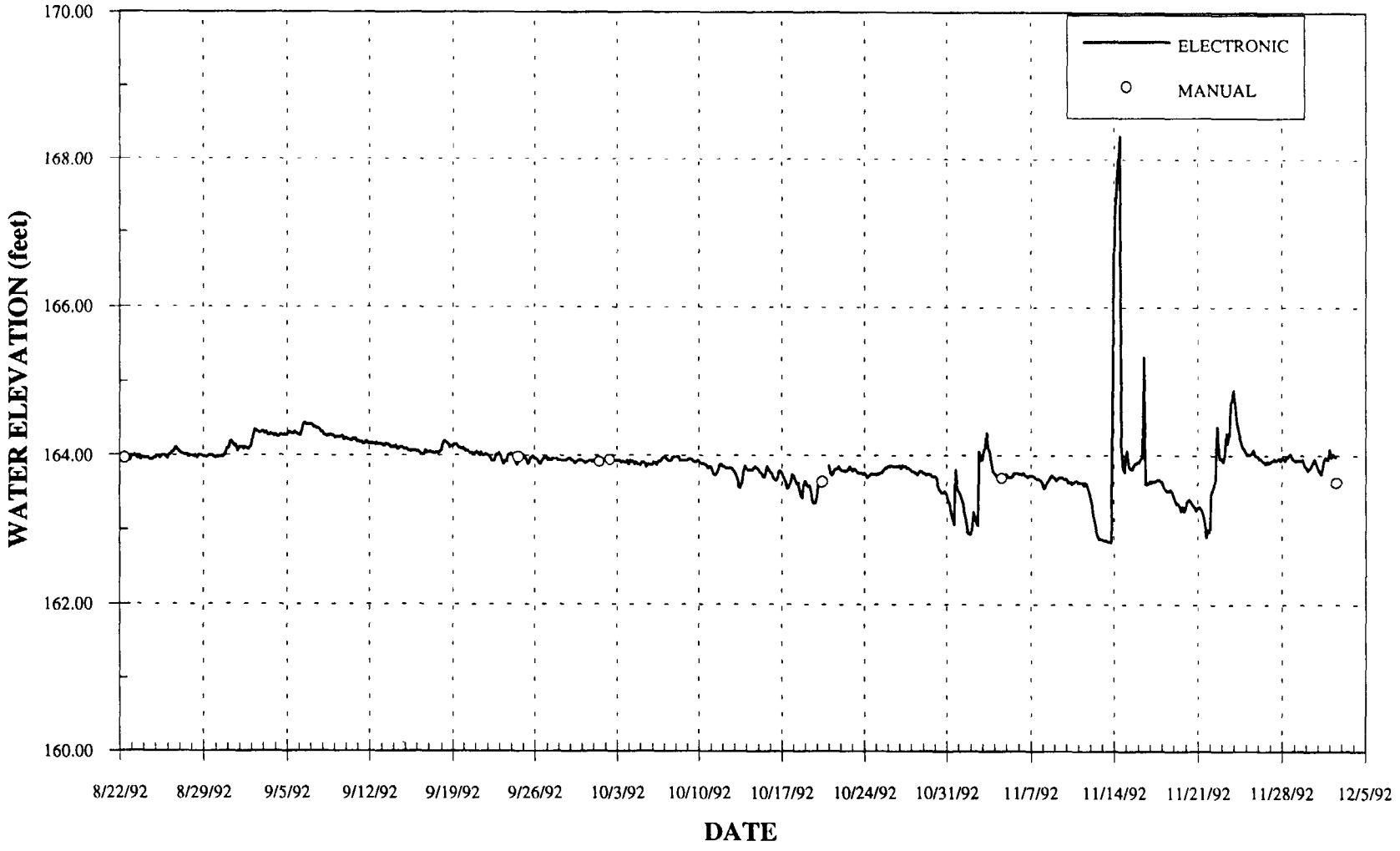
BW52.XLC - 12/17/92

ELMENDORF
MONITORING WELL
D3-01



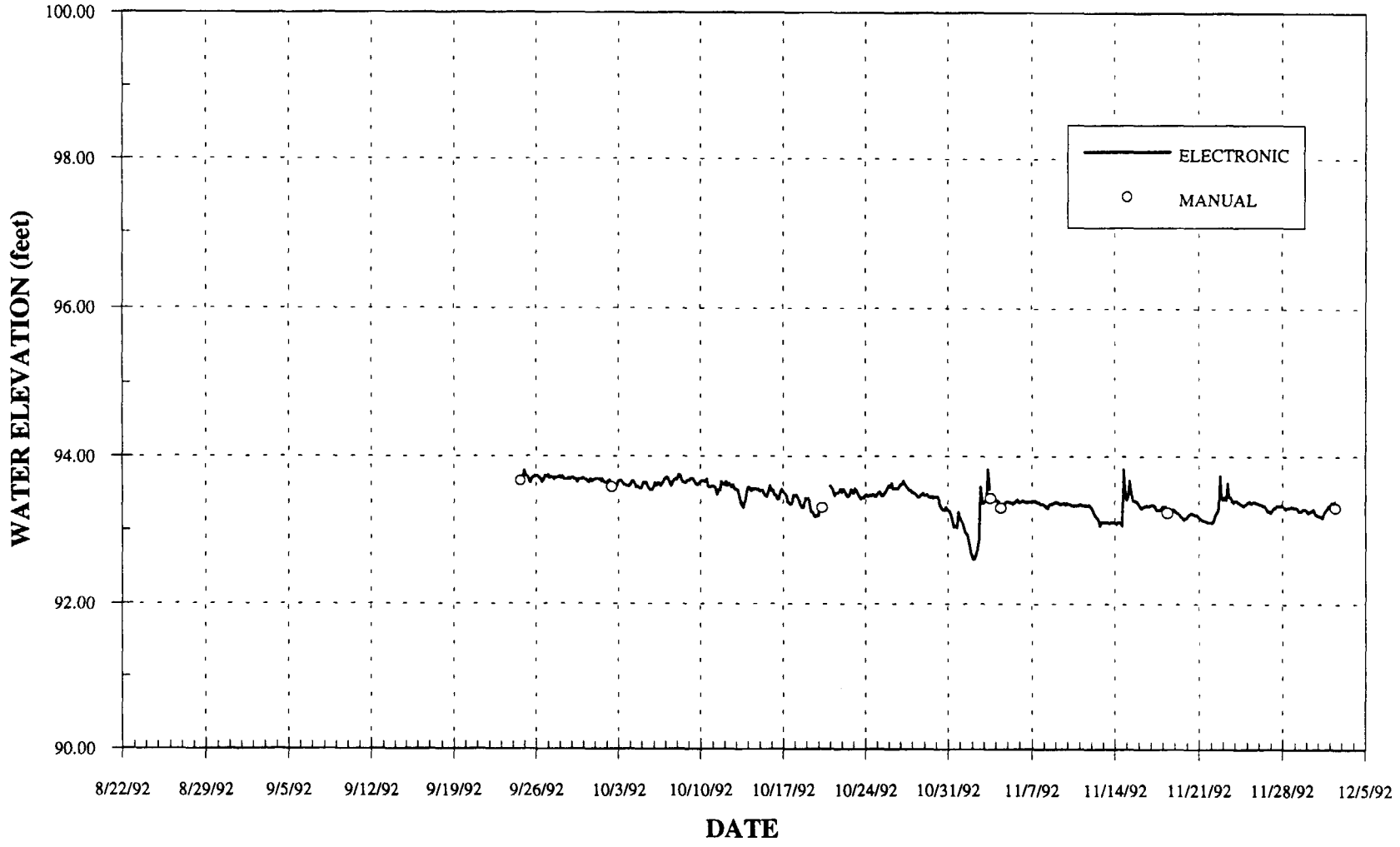
D3-01.XLC - 12/17/92

ELMENDORF
GAUGING STATION
GS-BRIDGE



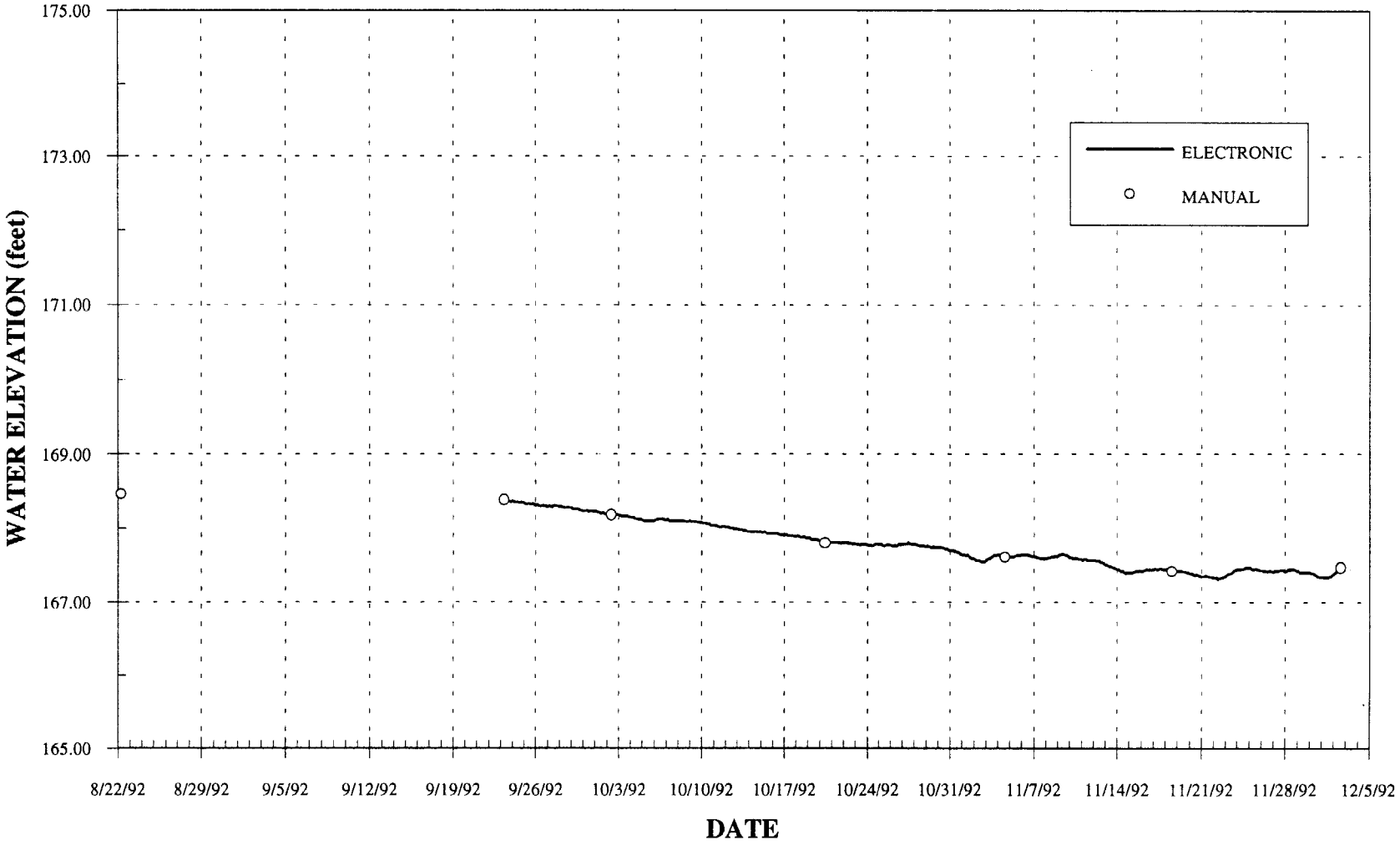
GSBDG.XLC - 12/17/92

ELMENDORF
GAUGING STATION
GS-DAM



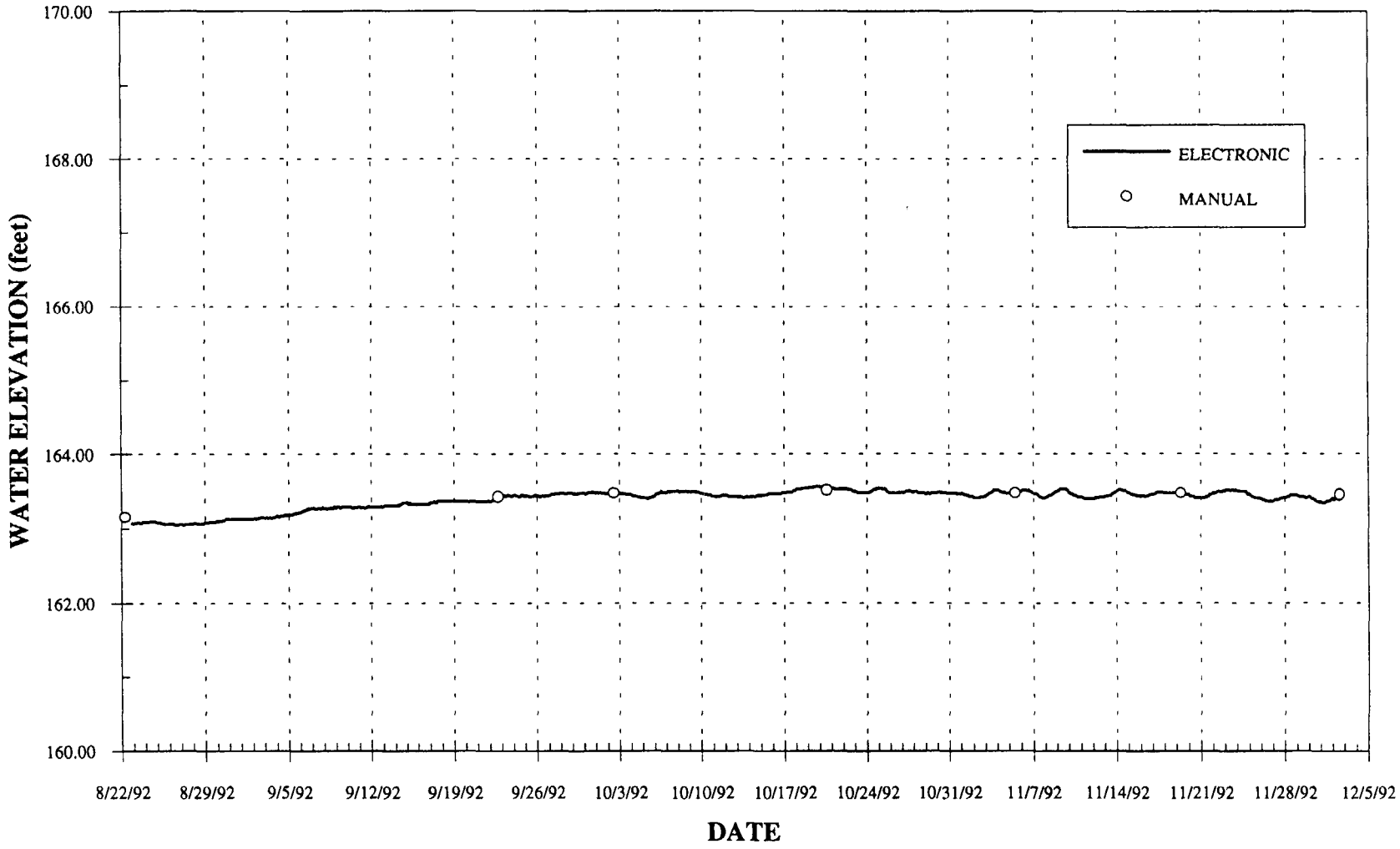
GSDAM.XLC - 12/17/92

ELMENDORF
MONITORING WELL
GW-2B



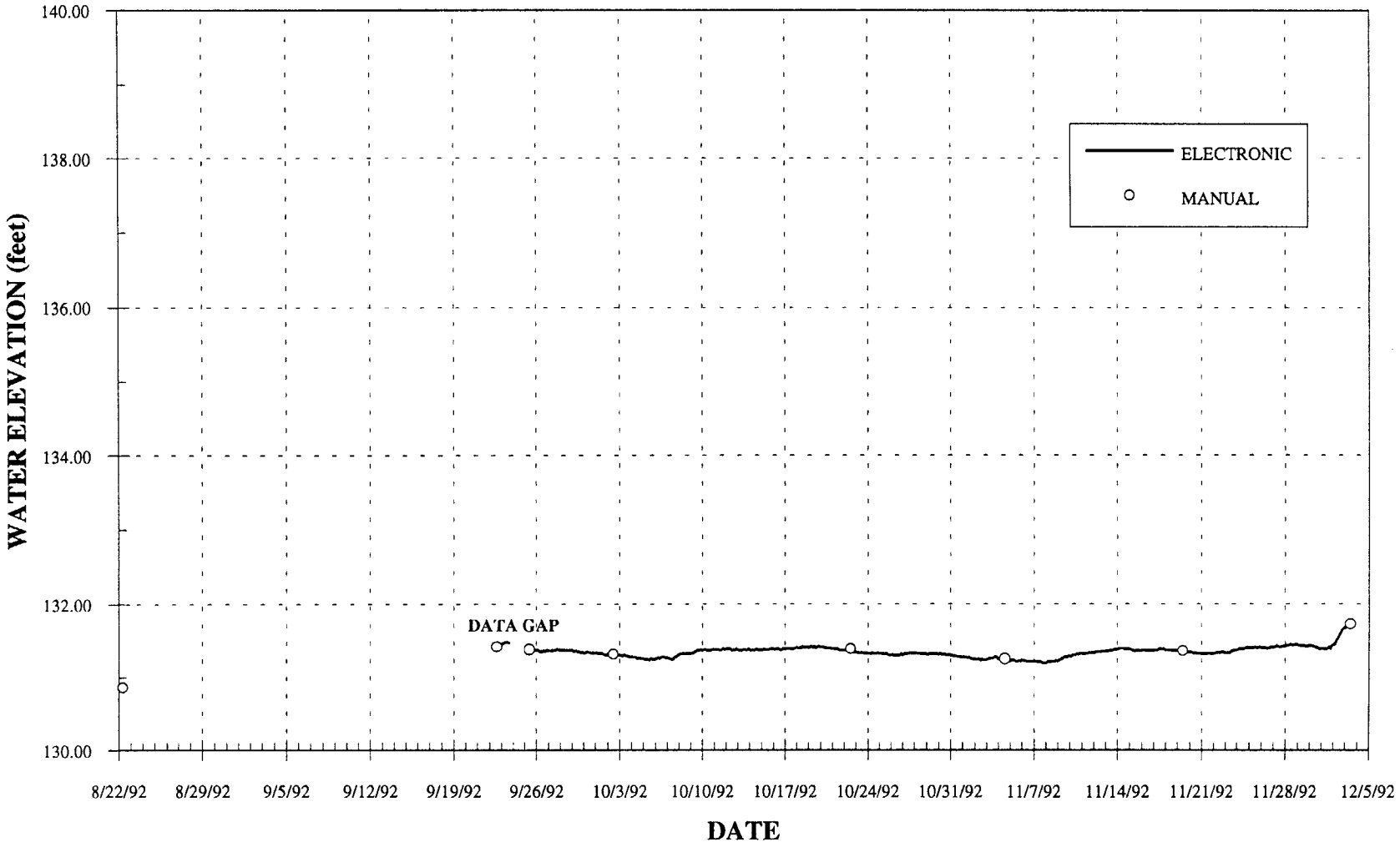
GW-2B.XLC - 12/17/92

ELMENDORF
MONITORING WELL
GW-5A



GW-5A.XLC - 12/17/92

ELMENDORF
MONITORING WELL
IS8-01



IS8-01.XLC - 12/17/92

APPENDIX H
SUMMARY OF ELMENDORF AFB MONITORING WELLS

Appendix H

Summary Of Elmendorf AFB Monitoring Wells

Table H.1
SUMMARY OF ELMENDORF AIR FORCE BASE MONITORING WELL CONSTRUCTION
ELMENDORF AFB, ANCHORAGE, ALASKA

AFIID	LOCID	INSDATE	WELCODE	BCHWCI WTCCODE	WCM CODE	GZC CODE	SEDEPTH	FPL	TOT DEPTH	CAS DIAM	CMA CODE	SB DEPTH	SCR LENGTH	SOUA	SCR DIAM	SCREEN MATL	RECOM-MEND	DRILL DEPTH	OU DESIG	REMARKS
ELMN	D13-01	16-Jul-88	USAF	MNW	S	S	33	22	55	2	PVC	35	20	0.01	2	GVL/SAND	NO	55	OU-1	CLAY LAYER 22-24 FT BGS, SCREEN LENGTH > 15'
ELMN	D13-02	16-Jul-88	USAF	MNW	S	S	29	17	46	2	PVC	31	15	0.02	2	GVL/SAND	YES	46	OU-1	BLACK CLAYEY MATERIAL @ 20'
ELMN	D13-03	18-Jul-88	USAF	MNW	S	S	28	25	53	2	PVC	33	20	0.01	2	GVL	NO	53	OU-1	ABANDONED BY JACOBS ENGINEERING, 3/1992
ELMN	GW-1A	10-Sep-86	USAF	MNW	S	S	41	10	51	2	PVC	41	10	0.01	2	SAND	YES	51.5	OU-1	
ELMN	GW-1B	21-Sep-86	USAF	MNW	S	S	34	10	44	2	PVC	34	10	0.01	2	SND/GRVL	YES	45	OU-1	ABANDONED BY JACOBS ENGINEERING, 3/1992
ELMN	GW-1C	22-Sep-86	USAF	MNW	S	S	40	10	49.5	2	PVC	40	10	0.01	2	SAND	YES	50	OU-1	
ELMN	GW-2A	18-Sep-86	USAF	MNW	S	S	40	10	50.5	2	PVC	40	10	0.01	2	SAND	YES	50.5	OU-1	
ELMN	GW-2B	19-Sep-86	USAF	MNW	S	S	29	10	41.5	2	PVC	29	10	0.01	2	SNDY GVL	YES	41.5	OU-1	
ELMN	GW-2C	23-Sep-86	USAF	MNW	S	S	27	10	37	2	PVC	27	10	0.01	2	SAND	YES	38	OU-1	
ELMN	NS2-01	15-Jul-88	USAF	MNW	S	S	24	32.5	50	2	PVC	30	20	0.01	2	GVL	NO	56.5	OU-1	SCREEN LENGTH > 15'
ELMN	NS2-02	15-Jul-88	USAF	MNW	S	S	33	22	55	2	PVC	35	20		2	SAND	NO	55	OU-1	SCREEN LENGTH > 15'
ELMN	W-1	10-Jun-84	USAF	MNW	S	S	30	25	59	2	PVC	30	25	0.01	2	SAND	NO	59	OU-1	
ELMN	W-2	12-Jun-84	USAF	MNW	S	S	30	25	57	2	PVC	30	25	0.01	2	GVLY SND	NO	16.5	OU-1	ABANDONED BY JACOBS ENGINEERING, 3/1992
ELMN	W-5	7-Jun-84	USAF	MNW	S	S	25	14	52	2	PVC	25	25	0.01	2	SAND	NO	56.5	OU-1	WELL COMPLETED IN LANDFILL
ELMN	W-6	8-Jun-84	USAF	MNW	S	S	30	25	57	2	PVC	30	25	0.01	2	SILT	NO	57	OU-1	WELL COMPLETED IN LANDFILL
ELMN	LF05-ZMW0	3-Sep-92	USAF	MNW	GS	W	102	24	222.71	4	PVC	102	10	0.02	4	SAND		110	OU-1	
ELMN	LF05-ZMW0	12-Sep-92	USAF	MNW	GS	W	93	25	203.57	4	PVC	93	15	0.02	4	SAND		108	OU-1	
ELMN	LF05-ZMW0	11-Sep-92	USAF	MNW	GS	W	32	19.5	206.08	4	PVC	32	15	0.2	4	SAND		48	OU-1	
ELMN	LF05-ZMW0	15-Sep-92	USAF	MNW	GS	W	28	21	199.3	4	PVC	28	15	0.1	4	SAND		44	OU-1	
ELMN	LF05-ZMW0	22-Sep-92	USAF	MNW	GS	W	32	22	204.07	4	PVC	32	15	0.01	4	SAND		52	OU-1	
ELMN	LF05-ZMW0	28-Sep-92	USAF	MNW	GS	S	86.5	13.5	203.64	4	PVC	86.5	10	0.01	4	CO SILICA		97	OU-1	DRILLED W/SCHRAMM T4 RIG USING ODEX AIR ROTARY
ELMN	LF05-ZMW0	24-Sep-92	USAF	MNW	GS	W	31	18	205.43	4	PVC	31	15	0.1	4	SAND		49	OU-1	
ELMN	LF05-ZMW0	21-Sep-92	USAF	MNW	NP	W	104	33	213.02	4	PVC	104	15	0.01	4	SAND		120	OU-1	
ELMN	LF05-ZMW0	16-Sep-92	USAF	MNW	GS	W	107	16	209.26	4	PVC	107	10	0.02	4	SAND		120	OU-1	
ELMN	LF05-ZMW1	22-Sep-92	USAF	MNW	GS	W	32	19	209.43	4	PVC	32	15	0.2	4	SAND		48	OU-1	
ELMN	LF05-ZMW1	10-Sep-92	USAF	MNW	GS	W	21.5	4	206.1	4	PVC	21.5	15	0.2	4	SAND		37	OU-1	
ELMN	LF05-ZMW1	25-Sep-92	USAF	MNW	NP	W	93	22	207.31	4	PVC	93	15	0.01	4	SAND		108	OU-1	
ELMN	LF05-ZMW1	17-Sep-92	USAF	PZ	GS	W	75	20	188.43	4	PVC	75	15	0.1	4	SAND		90	OU-1	
ELMN	LF05-ZMW1	26-Sep-92	USAF	MNW	GS	W	27	19	203.73	4	PVC	27	15	0.01	4	SAND		45	OU-1	
ELMN	LF59-MW01	31-Jul-92	USAF	MNW	GS	W	4.5	12.5	172.25	4	PVC	4.5	10.37	0.02	4	SAND		16	OU-1	
ELMN	LF59-MW02	29-Jul-92	USAF	MNW	GS	W	9.25	18.5	171.42	4	PVC	9.25	15	0.02	4	SAND		26	OU-1	
ELMN	LF59-MW03	23-Jul-92	USAF	MNW	GS	W	22.08	20.3	186.93	4	PVC	22.08	15	0.02	4	SAND		36.5	OU-1	
ELMN	LF59-MW04	24-Jul-92	USAF	MNW	GS	W	7.29	18	175.75	4	PVC	7.29	15	0.02	4	SAND		20	OU-1	
ELMN	LF59-MW05	28-Jul-92	USAF	MNW	GS	W	4.58	17	170.28	4	PVC	4.58	15	0.02	4	SAND		21	OU-1	
ELMN	LF59-MW06	27-Jul-92	USAF	MNW	GS	W	16.33	13.5	164.85	4	PVC	16.33	10	0.02	4	SAND		21	OU-1	
ELMN	LF59-PZ01	10-Oct-92	USAF	PZ	NP	S	3	11	170.82	2	PVC	3	10	0.01	4	NATIVE FMTN		14	OU-1	COMPLETED BY BACKFILLING WITH SURROUNDING FORMATION
ELMN	LF59-PZ02	16-Oct-92	USAF	PZ	NP	S	10	23	172.17	2	PVC	10	15	0.01	4	NATIVE FMTN		25	OU-1	COMPLETED BY BACKFILLING WITH SURROUNDING FORMATION
ELMN	B1MW	8-May-91	USAF	MNW	S	S	17	18	35	4	ALUM	19	23	0.02	4	SAND	YES	35	OU-2	
ELMN	B2MW	9-May-91	USAF	MNW	S	S	17	13	30	2	ALUM	20	10	0.02	4	SAND	YES	30	OU-2	
ELMN	B3MW		USAF	MNW													YES		OU-2	
ELMN	B4MW		USAF	MNW													YES		OU-2	
ELMN	ST20-01	15-Oct-90	USAF	MNW	S	S	19	13.5	32.5	4	PVC	22	10	0.02	4	GVL/SAND	NO	34	OU-2	WELL LOGS NOT AVAILABLE UNTIL AFTER FINAL SELECTION, FLUSH MOUNT
ELMN	ST20-02	16-Oct-90	USAF	MNW	S	S	18.5	13.5	32	4	PVC	21.5	10	0.02	4	SAND/GVL	NO	32	OU-2	WELL LOGS NOT AVAILABLE UNTIL AFTER FINAL SELECTION, FLUSH MOUNT
ELMN	ST20-03	18-Oct-90	USAF	MNW	S	S	18	12	30	4	PVC	19.5	10	0.02	4	SAND/GVL	NO	30	OU-2	WELL LOGS NOT AVAILABLE UNTIL AFTER FINAL SELECTION, FLUSH MOUNT
ELMN	ST20-04	22-Oct-90	USAF	MNW	S	S											NO		OU-2	NO WELL COMPLETION LOG, FLUSH MOUNT
ELMN	ST20-05	23-Oct-90	USAF	MNW	S	S	17.5	12.5	30	4	PVC	19.5	10	0.02	4	GVL/SAND	NO	30	OU-2	WELL LOGS NOT AVAILABLE UNTIL AFTER FINAL SELECTION, FLUSH MOUNT
ELMN	ST-41-01	9-Jul-88	USAF	MNW	GS	C	28.5	15	45	2	PVC	30	15	0.02	2	GVL/SAND	NO	46.5	OU-2	25' OF CLAY
ELMN	ST-41-02	8-Jul-88	USAF	MNW	S	S	18	18.5	36.5	2	PVC	21.5	15	0.02	2	SND/SILT	YES	36.5	OU-2	
ELMN	ST-41-06	9-Jul-88	USAF	MNW	S	S	31	17		2	PVC	33	15	0.02	2	SILT	NO	48	OU-2	NO TOTAL CASING DEPTH ON LOG
ELMN	ST-41-07	8-Jul-88	USAF	MNW	S	C	31.5	25	55	2	PVC	40	15	0.02	2	CLY/SAND	YES	56.5	OU-2	WATER LEVEL ABOVE SCREEN BY 10 FEET
ELMN	ST-41-08	7-Jul-88	USAF	MNW	S	S	8	17	25	2	PVC	10	15	0.02	2	SAND	NO	26.5	OU-2	WELL COMPLETION LOG AND BORING LOG INFORMATION DO NOT MATCH, TD
ELMN	ST-41-10	14-Jul-88	USAF	MNW	S	S	7	8	10	2	PVC		5	0.01	2	CLAY	NO	15	OU-2	WELL COMPLETION LOG AND BORING LOG INFORMATION DO NOT MATCH
ELMN	ST-41-15	12-Jul-88	USAF	MNW	S	S	9	12	20	2	PVC	10	10	0.01	2	SAND	YES	21	OU-2	LOG HAS NO W.L. JUST WATER LENS AT 11.0-12.5 FEET
ELMN	ST-41-16	11-Jul-88	USAF	MNW	S	S	8	12	20	2	PVC	10	10	0.02	2	GVL/SAND	YES	20	OU-2	
ELMN	ST-41-18	11-Jul-88	USAF	MNW	S	S	6	12	18	2	PVC	8	10	0.02	2	SNDY SLT	YES	18	OU-2	WATER LEVEL BELOW TD
ELMN	ST-41-19	11-Jul-88	USAF	MNW	S	S	8	12	20	2	PVC	10	10	0.02	2	SNDY GVL	YES	20	OU-2	

Table H.1
(Cont'd)

AFIID	LOCID	INSDATE	WELCODE	BCHWCI WTCCODE	WCM CODE	GZC CODE	SEDEPTH	FPL	TOT DEPTH	CAS DIAM	CMA CODE	SB DEPTH	SCR LENGTH	SOUA	SCR DIAM	SCREEN MATL	RECOM-MEND	DRILL DEPTH	OU DESIG	REMARKS
ELMN	ST-41-20	23-Aug-88	USAF	MNW	S	S	2	6	8	2	PVC	3	5	0.01	2	PEAT	NO	8	OU-2	WELL COMPLETED IN PEAT, TD 8'
ELMN	ST-41-21	6-Nov-89	USAF	MNW	S	S	3.4	17.6	19.3	2	PVC	4.3	15	0.02	2	GRAVEL	YES	21	OU-2	
ELMN	ST-41-22	7-Nov-89	USAF	MNW	S	S	11	14	18.5	2	PVC	5.5	10	0.02	2	SLTY SND	YES	25	OU-2	WATER LEVEL ABOVE SCREEN CASING
ELMN	ST-41-23	8-Nov-89	USAF	MNW	S	S	5.85	14.2	18.65	2	PVC	8.65	10	0.02	2	CLY/SAND	YES		OU-2	
ELMN	ST-41-24	8-Nov-89	USAF	MNW	S	L	6.1	13.9	18.9	2	PVC	7.2	10	0.02	2	SILT/CLY	NO	20	OU-2	WELL LOGS NOT AVAILABLE
ELMN	ST-41-25	9-Nov-89	USAF	MNW	S	S	4.8	10.2	15	2	PVC	7	8	0.02	2	SNDY GVL	YES	15	OU-2	WELL LOGS NOT AVAILABLE
ELMN	ST-41-26	9-Nov-89	USAF	MNW	S	S	6	14	19	2	PVC	9	10	0.02	2	SILT/CLY	YES	20	OU-2	
ELMN	ST-41-27		USAF	MNW	S	S											NO		OU-2	WELL LOGS NOT AVAILABLE
ELMN	ST-41-28	11-Oct-90	USAF	MNW	S	S	11.5	12.5	24	4	PVC	14	10	0.02	4	SND/SILT	YES	24	OU-2	
ELMN	ST-41-29	12-Oct-90	USAF	MNW	S	S	3.25	10	13.25	4	PVC	3.25	9.5	0.02	4	SAND	YES	13.5	OU-2	
ELMN	ST-41-30	18-Oct-90	USAF	MNW	S	S	5	12	16	4	PVC	5.5	10	0.02	4	SILTY SND	YES	17	OU-2	
ELMN	ST-41-31	19-Oct-90	USAF	MNW	S	S	2.5	11	13.5	4	PVC	14.5	10	0.02	4	SILTY SND	YES	14.5	OU-2	
ELMN	ST-41-32	20-Oct-90	USAF	MNW	S	S	14	12.5	26.5	4	PVC	16	10	0.02	4	SILTY SND	YES	27.5	OU-2	
ELMN	ST-41-33A		USAF	MNW	S	S											YES		OU-2	WELL LOGS NOT AVAILABLE
ELMN	ST-41-34	19-Apr-91	USAF	MNW	S	S	2.5	27.5	25.5	4	PVC	5	20	0.02	4	SAND	NO		OU-2	SCREEN LENGTH > 15'
ELMN	ST-41-35		USAF	MNW	S	S											YES		OU-2	WELL LOGS NOT AVAILABLE
ELMN	W-7	13-Jun-84	USAF	MNW	S	S	3	22	25	2	PVC	3	22	0.01	2	SILT/SND	NO	25	OU-2	SCREEN LENGTH > 15'
ELMN	W-8	13-Jun-84	USAF	MNW	S	S	5	20	25	2	PVC	5	20	0.01	2	SND/SILT	NO	25	OU-2	SCREEN LENGTH > 15'
ELMN	MW-07	26-Aug-92	USAF	MNW	S	S	26	24	50	2	PVC	30	20	0.01	2	SND/GVL		50	OU-2	
ELMN	MW-06	27-Aug-92	USAF	MNW	S	S	26	22	48	2	PVC	28	20	0.01	2	SND/SLT/GVL		48	OU-2	
ELMN	ST20-MW06	8-Sep-92	USAF	MNW	NP	W	90	0	181.09	4	PVC	90	15	0.1	4	SAND		98	OU-2	
ELMN	ST20-MW07	29-Sep-92	USAF	MNW	NP	W	53	10	181.47	4	PVC	53	10	0.1	4	SAND		63	OU-2	
ELMN	ST20-MW08	2-Oct-92	USAF	MNW	GS	W	90.5	20	181.31	4	PVC	90.5	15	0.1	4	SAND		110	OU-2	
ELMN	ST20-MW09	6-Oct-92	USAF	MNW	GS	W	52	16	181.48	4	PVC	52	10	10	4	SAND		65	OU-2	
ELMN	ST20-MW10	2-Oct-92	USAF	MNW	GS	W	23	22	178.68	4	PVC	23	15	0.1	4	SAND		42.5	OU-2	
ELMN	ST20-MW11	1-Oct-92	USAF	MNW	GS	W	18	20	177.65	4	PVC	18	15	0.1	4	SAND		35	OU-2	
ELMN	ST20-MW12	3-Oct-92	USAF	MNW	GS	W	22	19	181.04	4	PVC	22	15	0.1	4	SAND		38	OU-2	
ELMN	ST41-BH33/	26-Mar-92	USAF	MNW	GS	W	5	18.5	220.14	4	PVC	5	15.5	0.1	4	SAND		0	OU-2	
ELMN	ST41-MW36	26-Jul-92	USAF	MNW	GS	S	23.5	12.5	282.02	4	PVC	23.5	10	0.02	4	CO SILICA		30	OU-2	DRILLED WITH MOBIL DRILL B-61 HOLLOW STEM
ELMN	ST41-MW37	23-Jul-92	USAF	MNW	GS	W	8.9	18.1	211.03	4	PVC	8.9	15	0.01	4	SAND		25	OU-2	
ELMN	ST41-MW37	22-Jul-92	USAF	MNW	GS	W	46	27.5	210.52	4	PVC	46	15	0.01	4	SAND		65	OU-2	
ELMN	ST41-MW38	31-Jul-92	USAF	MNW	GS	S	14.5	12.5	250.7	4	PVC	14.5	10	0.02	4	CO SILICA		27	OU-2	DRILLED WITH MOBIL DRILL B-61 HOLLOW STEM
ELMN	W-10	18-Jun-84	USAF	MNW	S	S	5	25	30	2	PVC	5	25	0.01	2	SNDY SLT	NO	30	OU-3	BOTTOM 15 FEET SILTY CLAY, WELL SCREEN > 15'
ELMN	W-11	14-Jun-84	USAF	MNW	S	S	5	25	30	2	PVC	5	25	0.01	2	SND/SILT	NO	31.5	OU-3	WELL SCREEN > 15'
ELMN	W-12	15-Jun-84	USAF	MNW	S	S	10	25	35	2	PVC	10	25	0.01	2	SAND/CL	NO	36.5	OU-3	WELL SCREEN > 15'
ELMN	W-13	15-Jun-84	USAF	MNW	S	S	10	15	35	2	PVC	10	15	0.01	2	SND/SILT	YES	35.5	OU-3	
ELMN	IS7-01	22-Jul-88	USAF	MNW	S	S	10	17	27	2	PVC	12	15	0.01	2	SNDY/GVL	NO	27	OU-4	FLUSH MOUNT
ELMN	IS8-01	22-Jul-88	USAF	MNW	S	S	18	17	35	2	PVC	20	15		2	SNDY/GVL	YES	35	OU-4	
ELMN	IS-1	3-Aug-88	USAF	MNW	S	S	18	17	35	2	PVC	20	14.2	0.02	2	CRSE SND	YES	35	OU-4	
ELMN	IS-2	30-Jul-88	USAF	MNW	S	S	23	17	40	2	PVC	25	14.2	0.02	2	SAND/GVL	YES	40	OU-4	
ELMN	IS-3	1-Aug-88	USAF	MNW	S	S	25	17	50	2	PVC	35	14.2	0.02	2	SAND/GVL	YES	50	OU-4	
ELMN	IS-4	3-Aug-88	USAF	MNW	S	S	13	17	30	2	PVC	15	14.2	0.02	2	SAND/GVL	YES	30	OU-4	
ELMN	IS-5	4-Aug-88	USAF	MNW	S	S	43	17.5	60	2	PVC	45	14.2	0.02	2	SNDY/GVL	NO	60.5	OU-4	FLUSH MOUNT
ELMN	IS-6	2-Aug-88	USAF	MNW	S	S	43	17	60	2	PVC	45	14.2	0.02	2	GVL/SAND	YES	60	OU-4	
ELMN	W-18	23-Jun-84	USAF	MNW	S	S	20	28	43	2	PVC	20	28	0.01	2	SAND/GVL	NO	47	OU-4	WELL SCREEN > 15'
ELMN	W-19	23-Jun-84	USAF	MNW	S	S	25	25	50	2	PVC	25	25	0.01	2	SAND/GVL	NO	51.5	OU-4	WELL SCREEN > 15'
ELMN	GW4-A	11-Sep-86	USAF	MNW	S	S	1	10	11	2	PVC	1	10	0.01	2	SAND	NO	16.5	OU-5	NO WELL SEAL
ELMN	GW6-A	13-Sep-86	USAF	MNW	S	S	28	10	38	2	PVC	28	10	0.01	2	SAND	YES	41.5	OU-5	
ELMN	NS3-02	1-Aug-88	USAF	MNW	S	S	5.5	21	24	2	PVC	4	20	0.01	2	COAL/S&G	NO	26.5	OU-5	
ELMN	NS3-03	30-Jul-88	USAF	MNW	S	S	3	12	14	2	PVC	4	10	0.01	2	SAND/GVL	YES	15	OU-5	
ELMN	NS3-06	3-Aug-88	USAF	MNW	S	S	25	25	48	2	PVC	28	20	0.01	2	GVL/SAND	NO	48	OU-5	WELL SCREEN > 15'
ELMN	SP1-01	5-Aug-88	USAF	MNW	S	S	3	17	20	2	PVC	5	15	0.01	2	FILL	NO	20	OU-5	COMPLETED IN FILL
ELMN	SP1-02	6-Aug-88	USAF	MNW	S	S	39	19	50	2	PVC	35	15	0.01	2	GVL/FILL	NO	58	OU-5	COMPLETED IN FILL, BOOTLEGGER CLAY AT 52'
ELMN	SP2-01	20-Jul-88	USAF	MNW	S	S	33	17	50	2	PVC	35	15		2	SND/GRVL	YES	50	OU-5	
ELMN	SP2/6-02	23-Jul-88	USAF	MNW	S	S	22	29.5	45	2	PVC	25	20	0.01	2	SAND	NO	51.5	OU-5	WELL SCREEN > 15', BOOTLEGGER CLAY AT 52 FEET
ELMN	SP2/6-03	25-Jul-88	USAF	MNW	S	S	27	23	50	2	PVC	30	20	0.01	2	FILL	NO	50	OU-5	WELL SCREEN > 15', BOOTLEGGER CLAY AT 52.5', WELL DRILLED IN FLY ASH
ELMN	SP2/6-04	28-Jul-88	USAF	MNW	S	S	30	23	50	2	PVC	30	20	0.01	2	FILL	NO	53	OU-5	WELL SCREEN > 15', BOOTLEGGER CLAY AT 54 FEET

Table H.1
(Cont'd)

AFIID	LOCID	INSDATE	WELCODE	BCHWCI WTCCODE	WCM CODE	GZC CODE	SEDEPTH	FPL	TOT DEPTH	CAS DIAM	CMA CODE	SB DEPTH	SCR LENGTH	SCR SOUA	SCR DIAM	SCREEN MATL	RECOM-MEND	DRILL DEPTH	OU DESIG	REMARKS
ELMN	SP2/6-05	28-Jul-88	USAF	MNW	S	S	24	22	46	2	PVC	26	20	0.01	2	SAND	NO	46	OU-5	WELL SCREEN > 15', FREE PRODUCT ON WATER TABLE
ELMN	SP4-01	2-Aug-88	USAF	MNW	S	S	5.5	21	24	2	PVC	4	20	0.01	2	SAND/GVL	NO	26.5	OU-5	WELL SCREEN > 15'
ELMN	SP4-02	2-Aug-88	USAF	MNW	S	S	4.5	22	24	2	PVC	24	24	0.01	2	SAND/GVL	NO	26.5	OU-5	WELL SCREEN > 15', INACCURATE COMPLETION LOG
ELMN	SP4-03	4-Aug-88	USAF	MNW	S	S	33	22	55	2	PVC	35	20	0.01	2	SAND	NO	55	OU-5	WELL SCREEN > 15'
ELMN	W-14	21-Jun-84	USAF	MNW	S	S	3	22	25	2	PVC	3	22	0.01	2	SAND/GVL	NO	25	OU-5	WELL SCREEN > 15'
ELMN	W-16	20-Jun-84	USAF	MNW	S	S	25	28	55	2	PVC	25	28	0.01	2	GVLY SND	NO	52	OU-5	WELL SCREEN > 15', WELL CONSTRUCTION LOG INACCURATE TD
ELMN	MW-16	7-Aug-92	USAF	MNW	S	S	5	15	17	2	PVC	6.5	10	0.01	2	SND/GVL		20	OU-5	
ELMN	MW-15	7-Aug-92	USAF	MNW	S	S	5	7.5	12	2	PVC	7	5	0.01	2	SND/GVL		12.5	OU-5	
ELMN	MW-10	10-Aug-92	USAF	MNW	S	S	2	6	8	2	PVC	3	5	0.01	2	SND/GVL		9	OU-5	
ELMN	SB-09	10-Aug-92	USAF	MNW	S	S	2	7	8	2	PVC	3	5	0.01	2	SND/GVL		9	OU-5	
ELMN	MW-30	11-Aug-92	USAF	MNW	S	S	2.4	7.6	7.5	2	PVC	2.5	5	0.01	2	GVL/SILT		10	OU-5	
ELMN	MW-08	11-Aug-92	USAF	MNW	S	S	9	11	20	2	PVC	10	10	0.01	2	SND/GVL		20	OU-5	
ELMN	MW-17	12-Aug-92	USAF	MNW	S	S	7	7	13	2	PVC	8	5	0.01	2	SND/GVL		15	OU-5	
ELMN	MW-14	13-Aug-92	USAF	MNW	S	S	5	7	12	2	PVC	7	5	0.01	2	SND/GVL		12	OU-5	
ELMN	MW-01	13-Aug-92	USAF	MNW	S	S	27	18	45	2	PVC	30	15	0.01	2	SAND		45	OU-5	
ELMN	SB-13	14-Aug-92	USAF	MNW	S	S	2	5.5	7.5	2	PVC	2.5	5	0.01	2	GVL/CLAY		7.5	OU-5	
ELMN	MW-03	17-Aug-92	USAF	MNW	S	S	23	22	45	2	PVC	25	20	0.01	2	SND/GVL		45	OU-5	
ELMN	MW-04	18-Aug-92	USAF	MNW	S	S	21	34	43	2	PVC	23	15	0.01	2	SND/GVL		45	OU-5	
ELMN	MW-31	20-Aug-92	USAF	MNW	S	S	2	7	7.5	2	PVC	2.5	5	0.01	2	GVL/SAND		9	OU-5	
ELMN	MW-11	21-Aug-92	USAF	MNW	S	S	28	24	52	2	PVC	30	20	0.01	2	SAND/GVL		52	OU-5	
ELMN	MW-02	23-Aug-92	USAF	MNW	S	S	23	22	45	2	PVC	25	20	0.01	2	SND/GVL		45	OU-5	
ELMN	MW-05	24-Aug-92	USAF	MNW	S	S	16	22	38	2	PVC	18	20	0.01	2	GVL/SAND		38	OU-5	
ELMN	MW-12	25-Aug-92	USAF	MNW	S	S	3	7	10	2	PVC	5	5	0.01	2	SAND/GVL		10	OU-5	
ELMN	MW-16A	26-Aug-92	USAF	MNW	S	S	5.5	7.5	12.5	2	PVC	7.5	5	0.01	2	SND/GVL		13	OU-5	
ELMN	D3-01	13-Jul-88	USAF	MNW	S	S	35	26.5	57	2	PVC	37	20	0.01	2	SND/SILT	NO	61.5	OU-6	
ELMN	D3-02	13-Jul-88	USAF	MNW	S	S	13	18	30	2	PVC	15	15	0.02	2	SLTY/SND	YES	31	OU-6	
ELMN	D3-03	13-Jul-88	USAF	MNW	S	S	8	10	20	2	PVC	10	10		2	SLTY GVL	YES	20	OU-6	
ELMN	K301	30-Nov-87	USAF	MNW	S	S	120	40	151	2	PVC	142	5	?	2	GVL	YES	183	OU-6	WELL REPORTEDLY FAILED DURING INSTALLATION, HARZA 1988.
ELMN	K302	15-Dec-87	USAF	MNW	S	S	54	26	83	2	PVC	77	5	?	2	FINE SND	NO	228	OU-6	WELL COMPLETION INFORMATION FROM DRAWING WITH ENGINEERS SCALE
ELMN	K303	12-May-88	USAF	MNW	S	S	124	14	134	2	PVC	125	10	?	2	SND/SILT	YES	145.6	OU-6	WELL COMPLETION INFORMATION FROM DRAWING WITH ENGINEERS SCALE
ELMN	K304	10-Dec-87	USAF	MNW	S	S	0	11	12	2	PVC	7.3	5	?	2	SAND	NO	25	OU-6	WELL COMPLETION INFORMATION FROM DRAWING WITH ENGINEERS SCALE, NO SEAL
ELMN	K306	23-May-88	USAF	MNW	S	S	2.7	5.3	8	2	PVC	2.7	5	?	2	SLTY/SND	NO	26.5	OU-6	WELL COMPLETION INFORMATION FROM DRAWING WITH ENGINEERS SCALE
ELMN	K308	24-May-88	USAF	MNW	S	S	17.3	6.6	23.5	2	PVC	18	5	?	2	SAND	YES	25.5	OU-6	WELL COMPLETION INFORMATION FROM DRAWING WITH ENGINEERS SCALE
ELMN	K309	25-May-88	USAF	MNW	S	S	16.7	8	23.5	2	PVC	18	5	?	2	SAND	YES	25	OU-6	WELL COMPLETION INFORMATION FROM DRAWING WITH ENGINEERS SCALE
ELMN	K310	26-May-88	USAF	MNW	S	S	7.3	7.7	13.5	2	PVC	8	5	?	2	SAND	YES	22	OU-6	WELL COMPLETION INFORMATION FROM DRAWING WITH ENGINEERS SCALE
ELMN	FP-51	15-Jun-88	USAF	MNW	S	S	60	13	75.5	2	SLS	64	14	?	2	GVL SND	YES	102	OU-7	WELL COMPLETION INFORMATION FROM DRAWING WITH ENGINEERS SCALE
ELMN	FP-52	17-Jun-88	USAF	MNW	S	S	37.7	7	49	4	SLS	41	7	?	4	SAND	NO	49.5	OU-7	WELL COMPLETION INFORMATION FROM DRAWING WITH ENGINEERS SCALE
ELMN	FP-53	21-Jun-88	USAF	MNW	S	S	39.7	9.3	50	4	SLS	42	6.7	?	4	SNDY GVL	YES	50	OU-7	WELL COMPLETION INFORMATION FROM DRAWING WITH ENGINEERS SCALE
ELMN	FP-54	22-Jun-88	USAF	MNW	S	S	39.3	9.3	49.5	4	SLS	41.7	6.7	?	4	SNDY GVL	YES	49.5	OU-7	WELL COMPLETION INFORMATION FROM DRAWING WITH ENGINEERS SCALE
ELMN	FP-55	23-Jun-88	USAF	MNW	S	S	39.3	9.3	49.5	4	SLS	41	8	?	4	SNDY GVL	YES	50	OU-7	WELL COMPLETION INFORMATION FROM DRAWING WITH ENGINEERS SCALE
ELMN	FP-56	27-Jun-88	USAF	MNW	S	S	38	10	48.5	4	SLS	40.3	7	?	4	SNDY GVL	YES	49	OU-7	WELL COMPLETION INFORMATION FROM DRAWING WITH ENGINEERS SCALE
ELMN	GW-5A	14-Sep-86	USAF	MNW	S	S	40	10	50	2	PVC	40	10	0.01	2	CRSE SND	YES	51.5	OU-7	
ELMN	W-15	12-Jun-84	USAF	MNW	S	S	35	25	60	2	PVC	35	25	0.01	2	GVLY SND	YES	60.5	OU-7	
ELMN	GW-3A	12-Sep-86	USAF	MNW	S	S	23	10	33	2	PVC	23	10	0.01	2	SNDY GVL	YES	42	POL	
ELMN	GW-7A	10-Sep-86	USAF	MNW	S	S	30	10	40	2	PVC	30	10	0.01	2	SAND	YES	40	POL	
ELMN	PT-01	16-Aug-88	USAF	MNW	S	S	18	24	40	4	PVC	20	20	0.01	4	SAND	YES	42	POL	
ELMN	PT-03	12-Aug-88	USAF	MNW	S	S	18	22	40	2	PVC	20	20	0.01	2	GRAVEL	YES	40	POL	
ELMN	PT-04	17-Aug-88	USAF	MNW	S	S	56	22	40	2	PVC	20	20	0.01	2	GRVL/SND	NO	78	POL	BOOTLEGGER CLAY @ 78'
ELMN	W-9	18-Jun-84	USAF	MNW	S	S	10	26	36	2	PVC	10	25	0.01	2	SNDY GVL	NO	42	POL	WELL SCREEN > 15'
ELMN	SP14-01	28-Jul-88	USAF	MNW	S	S	23	17	40	2	PVC	25	15	0.02	2	SNDY GVL	YES	40	POL	
ELMN	SP14-02	29-Jul-88	USAF	MNW	S	S	28	17	45	2	PVC	30	15	0.02	2	SNDY GVL	YES	45	POL	
ELMN	SP15-1	19-Jul-88	USAF	MNW	S	S	22	17	39	2	PVC	24	15		2	SNDY GVL	YES	39	POL	
ELMN	SP15-2	21-Jul-88	USAF	MNW	S	S	23	17	40	2	PVC	25	15		2	SNDY GVL	YES	40	POL	
ELMN	SP7/10-01	26-Jul-88	USAF	MNW	S	S	13	22	34	2	PVC	14	20	0.01	2	GRAVEL	YES	35	POL	
ELMN	SP7/10-02	26-Jul-88	USAF	MNW	S	S	8	17	25	2	PVC	10	15	0.02	2	GVLY SND	YES	25	POL	
ELMN	SP7/10-03	27-Jul-88	USAF	MNW	S	S	13	17	30	2	PVC	15	15	0.02	2	SNDY GVL	YES	30	POL	
ELMN	SP7/10-04	27-Jul-88	USAF	MNW	S	S	13	17	30	2	PVC	15	15	0.01	2	SAND	YES	30	POL	

Table H.1
(Cont'd)

AFIID	LOCID	INSDATE	WELCODE	BCHWCI WTCCODE	WCM CODE	GZC CODE	SEDEPTH	FPL	TOT DEPTH	CAS DIAM	CMA CODE	SB DEPTH	SCR LENGTH	SOUA	SCR DIAM	SCREEN MATL	RECOM-MEND	DRILL DEPTH	OU DESIG	REMARKS
ELMN	W-17	19-Jun-84	USAF	MNW	S	S	23	27	50	2	PVC	23	27	0.01	2	SAND	YES	50.5	POL	
ELMN	W-3	22-Jun-84	USAF	MNW	S	S	10	25	35	2	PVC	10	25	0.01	2	SNDY GVL	NO	40	POL	
ELMN	W-4	22-Jun-84	USAF	MNW	S	S	5	25	32	2	PVC	5	25	0.01	2	SLTY CLY	NO	32	POL	
ELMN	T40001	8-Jul-88	USAF	MNW	S	S	85.2	32.8	100.5	2	PVC	88.8	11.2	?	2	GVLY SND	YES	119	UST	WELL COMPLETION INFORMATION FROM DRAWING WITH ENGINEERS SCALE
ELMN	T40107	5-Jul-88	USAF	MNW	S	S	15.9	15.5	29	2	PVC	18.5	10.9	?	2	SNDY GVL	YES	32	UST	WELL COMPLETION INFORMATION FROM DRAWING WITH ENGINEERS SCALE
ELMN	T40304	21-Jul-88	USAF	MNW	S	S	27.6	8.4	67	2	PVC	29.7	3.5	?	2	SNDY CLY	YES	92	UST	WELL COMPLETION INFORMATION FROM DRAWING WITH ENGINEERS SCALE
ELMN	T40503	24-Jul-88	USAF	MNW	S	S	84.8	24.8	100	2	PVC	89.2	10	?	2	SAND	YES	110	UST	WELL COMPLETION INFORMATION FROM DRAWING WITH ENGINEERS SCALE
ELMN	T40905	29-Jul-88	USAF	MNW	S	S	21.4	18.4	35	2	PVC	24.2	10.5	?	2	SILT	NO	40.5	UST	WELL COMPLETION INFORMATION FROM DRAWING WITH ENGINEERS SCALE
ELMN	T41206	1-Jul-88	USAF	MNW	S	S	16	14.2	29	2	PVC	18.4	10	?	2	SILT	YES	31	UST	WELL COMPLETION INFORMATION FROM DRAWING WITH ENGINEERS SCALE
ELMN	T41709	11-Jul-88	USAF	MNW	S	S	15.7	15	30	2	PVC	19.2	10	?	2	GVLY SND	YES	31.5	UST	WELL COMPLETION INFORMATION FROM DRAWING WITH ENGINEERS SCALE
ELMN	T42202	15-Jul-88	USAF	MNW	S	S	120	26.7	145	2	PVC	120	20	?	2	SAND	YES	174.5	UST	WELL COMPLETION INFORMATION FROM DRAWING WITH ENGINEERS SCALE
ELMN	T42810	12-Jul-88	USAF	MNW	S	S	19.5	18.4	36.5	2	PVC	25.9	10.4	?	2	GVLY SND	YES	39	UST	WELL COMPLETION INFORMATION FROM DRAWING WITH ENGINEERS SCALE
ELMN	BH-1	10-Aug-88	USAF	MNW	S	S	48	17	65	2	PVC	50	15	0.01	2	SAND	YES	65	MISC	
ELMN	BH-3	23-Aug-88	USAF	MNW	S	S	29.5	11	20	2	PVC	10	10	0.01	2	GVLY CLY	YES	40.5	MISC	
ELMN	BH-4	11-Aug-88	USAF	MNW	S	S	6	13.5	18	2	PVC	8	10	0.01	2	SAND	YES	19.5	MISC	
ELMN	BH-5	20-Aug-88	USAF	MNW	S	S	6	12	17	2	PVC	7	10	0.01	2	SAND	NO	18	MISC	IN SWAMP
ELMN	BH-6	5-Aug-88	USAF	MNW	S	S	4.5	6	10.1	2	PVC	5.1	5	0.02	2	SAND/GVL	YES	10.5	MISC	BOOTLEGGER CLAY @ 11'
ELMN	EOD-MW-2	14-Nov-92	USAF	MNW	S	S	75	11.9	75	4	PVC	65	10	0.01	4			76	MISC	WELL LOG NOT AVAILABLE
ELMN	EOD-MW-3	2-Nov-92	USAF	MNW	S	S			77.5	2	PVC	67.8	10	0.02	2	SAND		80.1	MISC	WELL LOG NOT AVAILABLE
ELMN	HS-01	2-Nov-92	USAF	MNW	S	S	24.8	11.7	24.8	2	PVC	14.8	10	0.02	2	SAND/SILT		24.8	MISC	
ELMN	HS-02A	16-Oct-92	USAF	MNW	S	S	24.4	10.4	24.4	2	PVC	14.4	10	0.02	2	SILT/SAND		24.4	MISC	
ELMN	HS-02B	13-Oct-92	USAF	MNW	S	S	48.4	12	48.8	2	PVC	38.4	10	0.02	2	SILT/SAND		58	MISC	
ELMN	HS-03	12-Oct-92	USAF	MNW	S	S	35.2	11.7	35.2	2	PVC	25.2	10	0.02	2	SAND/SILT		35.2	MISC	
ELMN	HS-04	15-Oct-92	USAF	MNW	S	S	29	11.2	29	2	PVC	19	10	0.02	2	SAND		29	MISC	
ELMN	HS-05	16-Oct-92	USAF	MNW	S	S	34.5	11.5	34.5	2	PVC	24.5	10	0.02	2	SAND		34.5	MISC	

Wells are listed alphabetically by Operable Unit Designation:

AFIID	Air Force installation identification
LOCID	Well identifier
INSDATE	Well installation date
WELCODE	Well owner code
BCHWCI WTCCOD	Well type classification code
WCMCODE	Well completion method code (s=screen)
GZCCODE	Geologic completion zone (s=shallow aquifer)
SEDEPTH	seal end depth
FPL	filter pack length
TOTDEPTH	total casing depth
CASDIAM	Casing inside diameter
CMACODE	Casing material code
SBDEPTH	Screen beginning depth
SCRLENGTH	Screen length
SOUA	Screen slot size
SCRDIAM	Screen diameter
SCREENMATL	Geologic screened material
RECOMMEND	Recommendation for CWLM per the criteria set forth in final SWLM selection memo
DRILLDEPTH	Total boring drill depth
OUDESIG	Operable Unit Designation
REMARKS	Comments regarding well construction

REFERENCES:

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TABLE H.2
Elmendorf AFB Well Coordinates and Measuring Point Elevations

Well Identification	Operable Unit Designation	Northing (feet)	Easting (feet)	Surveyed Measuring Point Elevation (ft. MSL)	Monument Used to Establish Measuring Point Elevation	Corrected (a) Measuring Point Elevation (ft MSL)
BW-01	N/A	2644895.18	1677459.94			
BW-02	N/A	2641926.67	1669148.47			
BW-04 new	N/A	2664195.19	1675350.00			
BW-04 old	N/A	2641542.86	1677802.96			
BW-07	N/A	2658129.11	1672052.59			
BW-08	N/A	2656653.34	1670236.07			
BW-16	N/A	2647515.82	1670797.92			
BW-24	N/A	2660408.83	1669591.04			
BW-25	N/A	2661962.45	1679799.27			
BW-27	N/A	2661124.90	1671592.71			
BW-29	N/A	2652896.86	1670490.31			
BW-42	N/A	2647124.35	1675936.09			
BW-43	N/A	2643498.41	1684511.91			
BW-46	N/A	2669273.28	1675915.54			
BW-47	N/A	2663478.04	1676648.80			
BW-49	N/A	2659496.19	1670082.08			
BW-51	N/A	2662055.41	1676758.92			
BW-53	N/A	2665240.82	1673282.03			
EOD-MW-2 (b)	N/A	2669281.37	1679320.87			
EOD-MW-3 (b)	N/A	2669328.30	1679088.51			
HS-01	N/A	2655015.89	1665728.63	130.30	J-20	127.91
HS-02A	N/A	2655310.93	1665885.83	123.60	J-20	121.21
HS-02B	N/A	2655310.86	1665696.65	124.00	J-20	121.61
HS-03	N/A	2655286.68	1665399.67	118.50	J-20	116.11
HS-04	N/A	2655433.81	1665521.12	121.90	J-20	119.51
HS-05	N/A	2655378.73	1665195.26	120.00	J-20	117.61
BH-02 (c)	N/A	2655293.06	1678147.47			
BH-1	N/A	2650646.83	1681421.68	230.34	TTAN7	227.69
BH-3	N/A	2656203.76	1674573.02	318.27	TTAN7	315.62
BH-4	N/A	2652123.58	1668976.87	303.19	TTAN7	300.54
BH5	N/A	2651162.64	1666710.56	245.08	TTAN7	242.43
BH6	N/A	2646207.69	1665286.11	145.38	TTAN7	142.73
BW-14	N/A	2665933.27	1678710.72			
BW-20	N/A	2646948.54	1678060.79			
BW-23	N/A	2645683.77	1678050.47			
BW-30	N/A	2662865.39	1669119.61			
BW-31	N/A	2642300.99	1679920.89			
BW-34	N/A	2655453.78	1676210.45			
BW-35	N/A	2655208.55	1684000.38			
BW-36	N/A	2639955.39	1681552.25			
BW-41	N/A	2658129.11	1672052.59			
BW-44	N/A	2664331.74	1674790.93			

TABLE H.2
(Cont'd)

Well Identification	Operable Unit Designation	Northing (feet)	Easting (feet)	Surveyed Measuring Point Elevation (ft. MSL)	Monument Used to Establish Measuring Point Elevation	Corrected (a) Measuring Point Elevation (ft MSL)
BW-45	N/A	2662141.46	1675253.19			
BW-48	N/A	2664281.64	1675223.60			
D13-01(c)	OU-1	2647636.51	1681081.84			
D13-02	OU-1	2647323.72	1680006.26	210.98	O4	208.45
D13-03 (d)	OU-1	2641377.71	1683310.40			
GW-1A	OU-1	2648178.28	1682018.26	217.84	O4	215.31
GW-1B (d)	OU-1	2646396.00	1679860.08			
GW-1C	OU-1	2647061.06	1680023.25	211.42	O4	208.89
GW-2A	OU-1	2647091.85	1682918.83	222.13	O4	219.60
GW-2B	OU-1	2645673.43	1679624.74	201.15	O4	198.62
GW-2C	OU-1	2645287.00	1679048.24	197.06	O4	194.53
LF05-MW-01	OU-1	2647050.65	1682973.45	222.71	O4	220.18
LF05-MW-02	OU-1	2645748.84	1679577.89	203.57	O4	201.04
LF05-MW-03	OU-1	2646020.54	1679554.82	206.08	O4	203.55
LF05-MW-04	OU-1	2645941.97	1679198.46	199.30	O4	196.77
LF05-MW-05	OU-1	2647012.94	1679626.33	204.07	O4	201.54
LF05-MW-06	OU-1	2646939.89	1679618.23	203.64	O4	201.11
LF05-MW-07	OU-1	2647967.93	1679342.71	205.43	O4	202.90
LF05-MW-08	OU-1	2647846.41	1680822.55	213.02	O4	210.49
LF05-MW-09	OU-1	2647216.09	1680685.98	209.26	O4	206.73
LF05-MW-10	OU-1	2647203.14	1680440.17	209.43	O4	206.90
LF05-MW-11	OU-1	2646233.72	1680411.02	206.10	O4	203.57
LF05-MW-12	OU-1	2646262.16	1680433.72	207.31	O4	204.78
LF05-MW-13	OU-1	2645503.96	1681099.70	188.43	O4	185.90
LF05-MW-14	OU-1	2646403.18	1679314.85	203.73	O4	201.20
LF59-MW-01	OU-1	2644806.68	1679156.61	172.25	O4	169.72
LF59-MW-02	OU-1	2645014.11	1677608.00	171.42	O4	168.89
LF59-MW-03	OU-1	2645188.88	1677886.33	186.93	O4	184.40
LF59-MW-04	OU-1	2645033.75	1678738.47	175.75	O4	173.22
LF59-MW-05	OU-1	2645094.16	1678606.26	170.28	O4	167.75
LF59-MW-06	OU-1	2644842.98	1677544.33	164.85	O4	162.32
LF59-PZ-01	OU-1	2644494.14	1679175.47	170.82	O4	168.29
LF59-PZ-02	OU-1	2644753.54	1678237.31	172.17	O4	169.64
NS2-01	OU-1	2647869.88	1680744.02	211.38	O4	208.85
NS2-02	OU-1	2647563.36	1680071.98	210.79	O4	208.26
W-1	OU-1	2647839.45	1680853.30	211.47	O4	208.94
W-2 (d)	OU-1	2647154.17	1681006.55			
W-5	OU-1	2645710.28	1680993.27	207.02	O4	204.49
W-6	OU-1	2645375.88	1679711.39	200.98	O4	198.45
B1MW (e)	OU-2	2648184.89	1675890.59			
B2MW (e)	OU-2	2648253.47	1675939.07			
B3MW (e)	OU-2	2648122.03	1675941.62			

TABLE H.2 (Cont'd)						
Well Identification	Operable Unit Designation	Northing (feet)	Easting (feet)	Surveyed Measuring Point Elevation (ft. MSL)	Monument Used to Establish Measuring Point Elevation	Corrected (a) Measuring Point Elevation (ft MSL)
B4MW (e)	OU-2	2648330.62	1675737.50			
ST20-MW-06	OU-2	2647377.54	1675360.28	181.09	O4	178.56
ST20-MW-07	OU-2	2647366.54	1675375.61	181.47	O4	178.94
ST20-MW-08	OU-2	2647578.07	1675310.07	181.31	O4	178.78
ST20-MW-09	OU-2	2647583.06	1675294.94	181.48	O4	178.95
ST20-MW-10	OU-2	2647336.36	1674878.85	178.68	O4	176.15
ST20-MW-11	OU-2	2647001.11	1675193.21	177.65	O4	175.12
ST20-MW-12	OU-2	2646891.68	1675464.00	181.04	O4	178.51
ST20-PZ-01	OU-2	2646911.66	1675464.52	180.99	O4	178.46
ST20-PZ-02	OU-2	2646873.37	1675463.56	180.87	O4	178.34
ST-41-01	OU-2	2649168.41	1664579.69	279.96	loop2rm3	277.66
ST-41-02	OU-2	2649156.85	1664274.36	265.68	loop2rm3	263.38
ST-41-06	OU-2	2649133.83	1664735.61	268.89	loop2rm3	266.59
ST-41-07	OU-2	2648919.89	1664488.50	268.43	loop2rm3	266.13
ST-41-08	OU-2	2649594.48	1664475.41	249.78	loop2rm3	247.48
ST-41-10	OU-2	2649588.21	1664346.68	235.67	loop2rm3	233.37
ST-41-15	OU-2	2648834.14	1664326.78	252.52	loop2rm3	250.22
ST-41-16	OU-2	2648845.84	1664473.95	253.80	loop2rm3	251.50
ST-41-18	OU-2	2648902.91	1664769.10	243.01	loop2rm3	240.71
ST-41-19	OU-2	2648869.33	1664902.38	236.73	loop2rm3	234.43
ST-41-20	OU-2	2649597.72	1664038.58	219.16	loop2rm3	216.86
ST-41-21	OU-2	2648595.60	1664262.72	220.61	loop2rm3	218.31
ST-41-22	OU-2	2648692.04	1665736.38	203.40	loop2rm3	201.10
ST-41-23	OU-2	2648626.52	1665385.62	207.93	loop2rm3	205.63
ST-41-24	OU-2	2648612.94	1665036.54	212.53	loop2rm3	210.23
ST-41-25	OU-2	2648630.54	1664449.39	220.77	loop2rm3	218.47
ST-41-26	OU-2	2648407.87	1664786.53	215.42	loop2rm3	213.12
ST-41-27	OU-2	2649451.70	1664754.39	262.30	loop2rm3	260.00
ST-41-28	OU-2	2649478.96	1664460.84	254.55	loop2rm3	252.25
ST-41-29	OU-2	2648501.03	1664549.03	216.50	loop2rm3	214.20
ST-41-30	OU-2	2649712.40	1664323.68	225.64	loop2rm3	223.34
ST-41-31	OU-2	2649539.49	1663935.36	219.75	loop2rm3	217.45
ST-41-32	OU-2	2649365.44	1663872.24	241.93	loop2rm3	239.63
ST-41-33	OU-2	2649537.10	1663681.24	220.14	loop2rm3	217.84
ST-41-34	OU-2	2649696.77	1663826.46	218.34	loop2rm3	216.04
ST-41-35	OU-2	2649584.38	1664633.88	251.10	loop2rm3	248.80
ST-41-36D	OU-2	2648950.47	1664139.94	282.02	loop2rm3	279.72
ST-41-37A	OU-2	2648284.66	1664583.81	211.03	loop2rm3	208.73
ST-41-37B	OU-2	2648280.51	1664601.81	210.52	loop2rm3	208.22
ST-41-38D	OU-2	2649270.06	1664008.16	250.71	loop2rm3	248.41
W-7	OU-2	2648714.40	1664529.38	218.44	loop2rm3	216.14
W-8	OU-2	2648630.61	1664651.70	216.30	loop2rm3	214.00

TABLE H.2
(Cont'd)

Well Identification	Operable Unit Designation	Northing (feet)	Easting (feet)	Surveyed Measuring Point Elevation (ft. MSL)	Monument Used to Establish Measuring Point Elevation	Corrected (a) Measuring Point Elevation (ft MSL)
W-11	OU-3	2646297.04	1668318.20	148.02	E74,F74	148.02
W-12 (g)	OU-3	2646500.30	1669222.64	153.81	Unknown	
W-13	OU-3	2646061.57	1669016.64	151.55	E74,F74	151.55
W-10	OU-3	2646077.08	1667271.10	146.73	E74,F74	146.73
IS7-01 (f)	OU-4	2644745.32	1667492.37			
IS1-1	OU-4	2651541.22	1673132.69	188.23	TTAN7	185.58
IS-2	OU-4	2652379.34	1672841.59	189.83	TTAN7	187.18
IS-3	OU-4	2652690.78	1674972.33	202.73	TTAN7	200.08
IS-4	OU-4	2650757.23	1672264.73	181.70	TTAN7	179.05
IS-5	OU-4	2651960.59	1679336.82	216.09	TTAN7	213.44
IS-6	OU-4	2652391.83	1679146.85	215.76	TTAN7	213.11
IS8-01	OU-4	2644828.98	1669500.96	154.53	TTAN7	151.88
W-18	OU-4	2651387.05	1673116.86	186.24	E74,F74	186.24
W-19	OU-4	2651651.89	1673378.18	186.97	E74,F74	186.97
BW-40	OU-5	2646694.13	1673691.11	171.60	E74,F74	171.60
BW-50	OU-5	2642551.36	1680511.10	200.20	E74,F74	200.20
BW-52	OU-5	2642921.89	1672341.57	106.10	E74,F74	106.10
GW-4A	OU-5	2644454.49	1674775.40	134.79	E74,F74	134.79
GW-6A	OU-5	2642648.49	1670730.39	137.62	E74,F74	137.62
NS3-02	OU-5	2643600.36	1673577.61	117.98	E74,F74	117.98
NS3-03	OU-5	2643144.74	1672285.55	109.13	E74,F74	109.13
NS3-06	OU-5	2644144.97	1672841.54	146.84	E74,F74	146.84
OU5MW-01	OU-5	2641440.14	1667083.49	136.41	E74,F74	136.41
OU5MW-02	OU-5	2642493.14	1668573.89	140.95	E74,F74	140.95
OU5MW-03	OU-5	2643187.22	1669747.10	147.58	E74,F74	147.58
OU5MW-04	OU-5	2644187.86	1671146.14	157.09	E74,F74	157.09
OU5MW-05	OU-5	2644958.94	1672552.29	157.29	E74,F74	157.29
OU5MW-06	OU-5	2645199.58	1674566.13	173.99	E74,F74	173.99
OU5MW-07	OU-5	2645421.29	1675634.89	179.42	E74,F74	179.42
OU5MW-08	OU-5	2644734.62	1675474.37	153.50	E74,F74	153.50
OU5MW-09	OU-5	2643498.85	1672675.46	113.02	E74,F74	113.02
OU5MW-10	OU-5	2642902.03	1672025.94	105.25	E74,F74	105.25
OU5MW-11	OU-5	2643322.68	1670837.17	152.95	E74,F74	152.95
OU5MW-12	OU-5	2641969.40	1670451.81	96.01	E74,F74	96.01
OU5MW-13	OU-5	2641783.28	1669909.23	90.81	E74,F74	90.81
OU5MW-14	OU-5	2644578.29	1675043.47	84.97	E74,F74	84.97
OU5MW-15	OU-5	2640954.48	1668159.38	81.56	E74,F74	81.56
OU5MW-16	OU-5	2640657.86	1667569.69	77.29	E74,F74	77.29
OU5MW-17	OU-5	2640111.83	1666837.83	65.99	E74,F74	65.99
OU5MW-30	OU-5	2643719.87	1673208.63	117.29	E74,F74	117.29
OU5MW-31	OU-5	2644051.90	1674322.56	125.16	E74,F74	125.16
SC-4 (g)	OU-5	2643939.66	1674171.50	121.11	TTAN7	118.46

TABLE H.2
(Cont'd)

Well Identification	Operable Unit Designation	Northing (feet)	Easting (feet)	Surveyed Measuring Point Elevation (ft. MSL)	Monument Used to Establish Measuring Point Elevation	Corrected (a) Measuring Point Elevation (ft MSL)
SP1-01	OU-5	2640815.84	1667437.25	97.91	E74,F74	97.91
SP1-02	OU-5	2641264.68	1668249.57	135.55	E74,F74	135.55
SP2/6-01	OU-5	2643026.15	1670418.50	152.75	E74,F74	152.75
SP2/6-02	OU-5	2643046.73	1670706.58	144.19	E74,F74	144.19
SP2/6-03	OU-5	2642951.72	1671070.88	141.63	E74,F74	141.63
SP2/6-04	OU-5	2642799.59	1670895.12	140.44	E74,F74	140.44
SP2/6-05	OU-5	2642393.82	1670442.28	135.81	E74,F74	135.81
SP4/11-01	OU-5	2644372.91	1374636.15	134.30	E74,F74	134.30
SP4/11-02	OU-5	2644118.12	1674413.02	128.13	E74,F74	128.13
SP4/11-03	OU-5	2644727.92	1674238.07	171.06	E74,F74	171.06
ST20-01	OU-5	2647981.02	1675638.15	185.51	E74,F74	185.51
ST20-02	OU-5	2647784.80	1675540.10	183.20	E74,F74	183.20
ST20-03	OU-5	2647587.44	1675283.67	181.56	E74,F74	181.56
ST20-04	OU-5	2647923.64	1675387.73	184.86	E74,F74	184.86
ST20-05	OU-5	2647402.68	1675363.21	181.23	E74,F74	181.23
W-14	OU-5	2641283.98	1669070.86	135.16	E74,F74	135.16
W-16	OU-5	2642644.26	1670567.61	138.18	E74,F74	138.18
D3-01	OU-6	2641339.31	1683310.40	224.08	TTAN7	221.43
D3-02	OU-6	2641171.00	1682475.10	208.35	TTAN7	205.69
D3-03	OU-6	2640630.62	1682136.42	205.60	TTAN7	202.95
K-301	OU-6	2650466.76	1662104.06	185.08	E74,F74	185.08
K-302	OU-6	2649421.02	1662157.67	231.94	E74,F74	231.94
K-303	OU-6	2647811.12	1661943.23	143.17	E74,F74	143.17
K304 (g)	OU-6	2647879.92	1661589.42	20.53	Unknown	
K306 (g)	OU-6	2650464.54	1661221.16	19.42	Unknown	
K308 (g)	OU-6	2649654.93	1661728.80	13.25	Unknown	
K309 (g)	OU-6	2649118.30	1661750.25	18.00	Unknown	
K310 (g)	OU-6	2648581.67	1661696.64	18.45	Unknown	
FP-51	OU-7	2653940.37	1674804.12	203.24	E74,F74	200.59
FP-52	OU-7	2653985.34	1674896.78	203.86	E74,F74	201.21
FP-53	OU-7	2654117.49	1674906.27	205.08	E74,F74	202.43
FP-54	OU-7	2654153.12	1674817.38	204.40	E74,F74	201.75
FP-55	OU-7	2654063.35	1674705.16	203.26	E74,F74	200.61
FP-56	OU-7	2653940.54	1674796.23	203.27	E74,F74	200.62
GW-5A (h)	OU-7	2653511.56	1674805.28	203.70	E74,F74	203.70
W-15	OU-7	2653712.90	1674779.56	202.67	E74,F74	202.67
GW-3A	POL	2648094.01	1672388.66	171.98	E74,F74	171.98
GW-7A	POL	2645957.35	1675296.66	178.49	E74,F74	178.49
PT-01	POL	2648083.79	1672307.20	176.60	TTAN7	173.95
PT-03	POL	2648073.64	1672296.22	176.50	TTAN7	173.85
PT-04	POL	2648030.91	1672247.81	176.17	TTAN7	173.52
SP14-01	POL	2645976.63	1675410.56	181.94	TTAN7	179.29

TABLE H.2
(Cont'd)

Well Identification	Operable Unit Designation	Northing (feet)	Easting (feet)	Surveyed Measuring Point Elevation (ft. MSL)	Monument Used to Establish Measuring Point Elevation	Corrected (a) Measuring Point Elevation (ft MSL)
SP14-02	POL	2645246.06	1675424.24	181.26	TTAN7	178.61
SP15-01	POL	2648563.59	1674375.84	185.03	TTAN7	182.38
SP15-02	POL	2648690.65	1674548.24	184.58	TTAN7	181.93
SP7/10-01	POL	2649518.09	1671236.81	169.28	TTAN7	166.63
SP7/10-02	POL	2649577.53	1671540.38	170.95	TTAN7	168.30
SP7/10-03	POL	2650347.49	1671365.72	181.46	TTAN7	178.81
SP7/10-04	POL	2650344.44	1670902.31	177.04	TTAN7	174.39
W-17 (d)	POL	2646191.32	1675401.56	180.57	Unknown	
W-3	POL	2650483.83	1681008.09	176.10	E74,F74	176.10
W-4	POL	2649699.85	1672107.28	167.97	E74,F74	167.97
W-9	POL	2648431.07	1672261.72	172.94	E74,F74	172.94
T40001	UST	2648924.39	1644826.59	281.86	E74,F74	281.86
T40107	UST	2649497.50	1666783.17	228.32	E74,F74	228.32
T40304	UST	2649549.71	1667583.19	222.84	E74,F74	222.84
T40503	UST	2650071.77	1668112.02	222.20	E74,F74	222.20
T40905 (e)	UST	2649584.51	1665989.93	288.03	Unknown	
T41206	UST	2649889.05	1666328.92	287.93	E74,F74	287.93
T41709	UST	2650393.71	1667271.32	274.90	E74,F74	274.90
T42202	UST	2650237.09	1667569.63	288.32	E74,F74	288.32
T42810 (e)	UST	2650450.20	1668371.01	305.15	Unknown	

(a) Refer to Table H.4 for vertical elevation correction factors.

(b) Not surveyed as of January 1993, may be surveyed in the future pending the results of the open burning/open detonation (OB/OD) area.

(c) Wellhead and point have been severely damaged and well should be abandoned.

(d) Abandoned by Jacobs Engineering Inc., March 1992.

(e) Monitoring wells need to be surveyed to establish correct well head elevations. Not surveyed in January 1993 due to weather conditions.

(f) Well was covered by asphalt and has never been surveyed.

(g) Monitoring wells have never been found.

(h) Well coordinates are unsurveyed values.

N/A - Not assigned to a specific operable unit

TABLE H.3
Elmendorf AFB Well Coordinates and Measuring Point Elevations (Metric)

Well Identification	Operable Unit Designation	Northing (m)	Easting (m)	Surveyed Measuring Point Elevation (m)	Monument Used to Establish Measuring Point Elevation	Corrected (a) Measuring Point Elevation (m)
BW-01	N/A	806164.05	511289.79			
BW-02	N/A	805259.25	508756.45			
BW-04 new	N/A	812046.69	510646.68			
BW-04 old	N/A	805142.26	511394.34			
BW-07	N/A	810197.75	509641.63			
BW-08	N/A	809747.94	509087.95			
BW-16	N/A	806962.82	509259.21			
BW-24	N/A	810892.61	508891.35			
BW-25	N/A	811366.16	512002.82			
BW-27	N/A	811110.87	509501.46			
BW-29	N/A	808602.96	509165.45			
BW-42	N/A	806843.50	510825.32			
BW-43	N/A	805738.31	513439.23			
BW-46	N/A	813594.50	510819.06			
BW-47	N/A	811828.11	511042.55			
BW-49	N/A	810614.44	509041.02			
BW-51	N/A	811394.49	511076.12			
BW-53	N/A	812365.40	510016.36			
EOD-MW-2 (b)	N/A	813596.96	511857.00			
EOD-MW-3 (b)	N/A	813611.27	511786.18			
HS-01	N/A	809248.84	507714.09	39.72	J-20	38.99
HS-02A	N/A	809338.77	507762.00	37.67	J-20	36.94
HS-02B	N/A	809338.75	507704.34	37.80	J-20	37.07
HS-03	N/A	809331.38	507613.82	36.12	J-20	35.39
HS-04	N/A	809376.23	507650.84	37.16	J-20	36.43
HS-05	N/A	809359.44	507551.52	36.58	J-20	35.85
BH-1	N/A	807917.15	512497.33	70.21	TTAN7	69.40
BH-2 (c)	N/A	809333.32	511499.35			
BH-3	N/A	809610.91	510409.86	97.01	TTAN7	96.20
BH-4	N/A	808367.27	508704.15	92.41	TTAN7	91.60
BH5	N/A	808074.37	508013.38	74.70	TTAN7	73.89
BH6	N/A	806564.10	507579.21	44.31	TTAN7	43.50
BW-14	N/A	812576.46	511671.03			
BW-20	N/A	806789.91	511472.93			
BW-23	N/A	806404.41	511469.78			
BW-30	N/A	811641.37	508747.66			
BW-31	N/A	805373.34	512039.89			
BW-34	N/A	809382.31	510908.95			
BW-35	N/A	809307.57	513283.32			
BW-36	N/A	804658.40	512537.13			
BW-41	N/A	810197.75	509641.63			
BW-44	N/A	812088.31	510476.28			

TABLE H.3
(Cont'd)

Well Identification	Operable Unit Designation	Northing (m)	Easting (m)	Surveyed Measuring Point Elevation (m)	Monument Used to Establish Measuring Point Elevation	Corrected (a) Measuring Point Elevation (m)
BW-45	N/A	811420.72	510617.17			
BW-48	N/A	812073.04	510608.15			
D13-01(c)	OU-1	806999.61	512393.73			
D13-02	OU-1	806904.27	512065.91	64.31	O4	63.54
D13-03 (d)	OU-1	805091.93	513073.01			
GW-1A	OU-1	807164.74	512679.17	66.40	O4	65.63
GW-1B (d)	OU-1	806621.50	512021.35			
GW-1C	OU-1	806824.21	512071.09	64.44	O4	63.67
GW-2A	OU-1	806833.60	512953.66	67.71	O4	66.93
GW-2B	OU-1	806401.26	511949.62	61.31	O4	60.54
GW-2C	OU-1	806283.48	511773.90	60.06	O4	59.29
LF05-MW-01	OU-1	806821.04	512970.31	67.88	O4	67.11
LF05-MW-02	OU-1	806424.25	511935.34	62.05	O4	61.28
LF05-MW-03	OU-1	806507.06	511928.31	62.81	O4	62.04
LF05-MW-04	OU-1	806483.11	511819.69	60.75	O4	59.98
LF05-MW-05	OU-1	806809.54	511950.10	62.20	O4	61.43
LF05-MW-06	OU-1	806787.28	511947.64	62.07	O4	61.30
LF05-MW-07	OU-1	807100.62	511863.66	62.62	O4	61.84
LF05-MW-08	OU-1	807063.59	512314.71	64.93	O4	64.16
LF05-MW-09	OU-1	806871.46	512273.09	63.78	O4	63.01
LF05-MW-10	OU-1	806867.52	512198.16	63.83	O4	63.06
LF05-MW-11	OU-1	806572.04	512189.28	62.82	O4	62.05
LF05-MW-12	OU-1	806580.71	512196.20	63.19	O4	62.42
LF05-MW-13	OU-1	806349.61	512399.19	57.43	O4	56.66
LF05-MW-14	OU-1	806623.69	511855.17	62.10	O4	61.33
LF59-MW-01	OU-1	806137.08	511806.93	52.50	O4	51.73
LF59-MW-02	OU-1	806200.30	511334.92	52.25	O4	51.48
LF59-MW-03	OU-1	806253.57	511419.75	56.98	O4	56.21
LF59-MW-04	OU-1	806206.29	511679.49	53.57	O4	52.80
LF59-MW-05	OU-1	806224.70	511639.19	51.90	O4	51.13
LF59-MW-06	OU-1	806148.14	511315.51	50.25	O4	49.48
LF59-PZ-01	OU-1	806041.81	511812.68	52.07	O4	51.29
LF59-PZ-02	OU-1	806120.88	511526.73	52.48	O4	51.71
NS2-01	OU-1	807070.74	512290.78	64.43	O4	63.66
NS2-02	OU-1	806977.31	512085.94	64.25	O4	63.48
W-1	OU-1	807061.46	512324.09	64.46	O4	63.68
W-2 (d)	OU-1	806852.59	512370.80			
W-5	OU-1	806412.49	512366.75	63.10	O4	62.33
W-6	OU-1	806310.57	511976.03	61.26	O4	60.49
B1MW (e)	OU-2	807166.75	510811.45			
B2MW (e)	OU-2	807187.66	510826.23			
B3MW (e)	OU-2	807147.59	510827.01			

TABLE H.3
(Cont'd)

Well Identification	Operable Unit Designation	Northing (m)	Easting (m)	Surveyed Measuring Point Elevation (m)	Monument Used to Establish Measuring Point Elevation	Corrected (a) Measuring Point Elevation (m)
B4MW (e)	OU-2	807211.17	510764.79			
ST20-MW-06	OU-2	806920.68	510649.81	55.20	O4	54.43
ST20-MW-07	OU-2	806917.32	510654.49	55.31	O4	54.54
ST20-MW-08	OU-2	806981.80	510634.51	55.26	O4	54.49
ST20-MW-09	OU-2	806983.32	510629.90	55.32	O4	54.54
ST20-MW-10	OU-2	806908.12	510503.07	54.46	O4	53.69
ST20-MW-11	OU-2	806805.94	510598.89	54.15	O4	53.38
ST20-MW-12	OU-2	806772.59	510681.43	55.18	O4	54.41
ST20-PZ-01	OU-2	806778.67	510681.59	55.17	O4	54.39
ST20-PZ-02	OU-2	806767.00	510681.29	55.13	O4	54.36
ST-41-01	OU-2	807466.53	507363.89	85.33	loop2rm3	84.63
ST-41-02	OU-2	807463.01	507270.83	80.98	loop2rm3	80.28
ST-41-06	OU-2	807455.99	507411.41	81.96	loop2rm3	81.26
ST-41-07	OU-2	807390.78	507336.10	81.82	loop2rm3	81.12
ST-41-08	OU-2	807596.40	507332.10	76.13	loop2rm3	75.43
ST-41-10	OU-2	807594.49	507292.87	71.83	loop2rm3	71.13
ST-41-15	OU-2	807364.64	507286.80	76.97	loop2rm3	76.27
ST-41-16	OU-2	807368.21	507331.66	77.36	loop2rm3	76.66
ST-41-18	OU-2	807385.61	507421.62	74.07	loop2rm3	73.37
ST-41-19	OU-2	807375.37	507462.24	72.16	loop2rm3	71.45
ST-41-20	OU-2	807597.38	507198.96	66.80	loop2rm3	66.10
ST-41-21	OU-2	807291.94	507267.28	67.24	loop2rm3	66.54
ST-41-22	OU-2	807321.33	507716.45	62.00	loop2rm3	61.30
ST-41-23	OU-2	807301.36	507609.54	63.38	loop2rm3	62.68
ST-41-24	OU-2	807297.22	507503.14	64.78	loop2rm3	64.08
ST-41-25	OU-2	807302.59	507324.17	67.29	loop2rm3	66.59
ST-41-26	OU-2	807234.72	507426.94	65.66	loop2rm3	64.96
ST-41-27	OU-2	807552.88	507417.14	79.95	loop2rm3	79.25
ST-41-28	OU-2	807561.19	507327.66	77.59	loop2rm3	76.89
ST-41-29	OU-2	807263.11	507354.54	65.99	loop2rm3	65.29
ST-41-30	OU-2	807632.34	507285.86	68.78	loop2rm3	68.07
ST-41-31	OU-2	807579.64	507167.50	66.98	loop2rm3	66.28
ST-41-32	OU-2	807526.59	507148.26	73.74	loop2rm3	73.04
ST-41-33	OU-2	807578.91	507090.04	67.10	loop2rm3	66.40
ST-41-34	OU-2	807627.58	507134.31	66.55	loop2rm3	65.85
ST-41-35	OU-2	807593.32	507380.41	76.54	loop2rm3	75.83
ST-41-36D	OU-2	807400.10	507229.85	85.96	loop2rm3	85.26
ST-41-37A	OU-2	807197.16	507365.14	64.32	loop2rm3	63.62
ST-41-37B	OU-2	807195.90	507370.63	64.17	loop2rm3	63.47
ST-41-38D	OU-2	807497.52	507189.69	76.42	loop2rm3	75.72
W-7	OU-2	807328.15	507348.56	66.58	loop2rm3	65.88
W-8	OU-2	807302.61	507385.84	65.93	loop2rm3	65.23

TABLE H.3
(Cont'd)

Well Identification	Operable Unit Designation	Northing (m)	Easting (m)	Surveyed Measuring Point Elevation (m)	Monument Used to Establish Measuring Point Elevation	Corrected (a) Measuring Point Elevation (m)
W-11	OU-3	806591.34	508503.39	45.12	E74,F74	45.12
W-12 (g)	OU-3	806653.29	508779.06	46.88	Unknown	
W-13	OU-3	806519.57	508716.27	46.19	E74,F74	46.19
W-10	OU-3	806524.29	508184.23	44.72	E74,F74	44.72
IS7-01 (f)	OU-4	806118.37	508251.67			
IS-1	OU-4	808189.76	509970.84	57.37	TTAN7	56.56
IS-2	OU-4	808445.22	509882.12	57.86	TTAN7	57.05
IS-3	OU-4	808540.15	510531.57	61.79	TTAN7	60.98
IS-4	OU-4	807950.80	509706.29	55.38	TTAN7	54.57
IS-5	OU-4	808317.59	511861.86	65.86	TTAN7	65.06
IS-6	OU-4	808449.03	511803.96	65.76	TTAN7	64.96
IS8-01	OU-4	806143.87	508863.89	47.10	TTAN7	46.29
W-18	OU-4	808142.77	509966.02	56.77	E74,F74	56.77
W-19	OU-4	808223.50	510045.67	56.99	E74,F74	56.99
BW-40	OU-5	806712.37	510141.05	52.30	E74,F74	52.30
BW-50	OU-5	805449.65	512219.78	61.02	E74,F74	61.02
BW-52	OU-5	805562.59	509729.71	32.34	E74,F74	32.34
GW-4A	OU-5	806029.73	510471.54	41.08	E74,F74	41.08
GW-6A	OU-5	805479.26	509238.62	41.95	E74,F74	41.95
NS3-02	OU-5	805769.39	510106.46	35.96	E74,F74	35.96
NS3-03	OU-5	805630.52	509712.64	33.26	E74,F74	33.26
NS3-06	OU-5	805935.39	509882.10	44.76	E74,F74	44.76
OU5MW-01	OU-5	805110.95	508127.05	41.58	E74,F74	41.58
OU5MW-02	OU-5	805431.91	508581.32	42.96	E74,F74	42.96
OU5MW-03	OU-5	805643.46	508938.92	44.98	E74,F74	44.98
OU5MW-04	OU-5	805948.46	509365.34	47.88	E74,F74	47.88
OU5MW-05	OU-5	806183.48	509793.94	47.94	E74,F74	47.94
OU5MW-06	OU-5	806256.83	510407.76	53.03	E74,F74	53.03
OU5MW-07	OU-5	806324.41	510733.51	54.69	E74,F74	54.69
OU5MW-08	OU-5	806115.11	510684.59	46.79	E74,F74	46.79
OU5MW-09	OU-5	805738.45	509831.48	34.45	E74,F74	34.45
OU5MW-10	OU-5	805556.54	509633.51	32.08	E74,F74	32.08
OU5MW-11	OU-5	805684.75	509271.17	46.62	E74,F74	46.62
OU5MW-12	OU-5	805272.27	509153.71	29.26	E74,F74	29.26
OU5MW-13	OU-5	805215.54	508988.33	27.68	E74,F74	27.68
OU5MW-14	OU-5	806067.46	510553.25	25.90	E74,F74	25.90
OU5MW-15	OU-5	804962.93	508454.98	24.86	E74,F74	24.86
OU5MW-16	OU-5	804872.52	508275.24	23.56	E74,F74	23.56
OU5MW-17	OU-5	804706.09	508052.17	20.11	E74,F74	20.11
OU5MW-30	OU-5	805805.82	509993.99	35.75	E74,F74	35.75
OU5MW-31	OU-5	805907.02	510333.52	38.15	E74,F74	38.15
SC-4 (g)	OU-5	805872.81	510287.47	36.91	TTAN7	36.11

TABLE H.3
(Cont'd)

Well Identification	Operable Unit Designation	Northing (m)	Easting (m)	Surveyed Measuring Point Elevation (m)	Monument Used to Establish Measuring Point Elevation	Corrected (a) Measuring Point Elevation (m)
SP1-01	OU-5	804920.67	508234.87	29.84	E74,F74	29.84
SP1-02	OU-5	805057.47	508482.47	41.32	E74,F74	41.32
SP2/6-01	OU-5	805594.37	509143.56	46.56	E74,F74	46.56
SP2/6-02	OU-5	805600.64	509231.37	43.95	E74,F74	43.95
SP2/6-03	OU-5	805571.68	509342.40	43.17	E74,F74	43.17
SP2/6-04	OU-5	805525.32	509288.83	42.81	E74,F74	42.81
SP2/6-05	OU-5	805401.64	509150.81	41.39	E74,F74	41.39
SP4/11-01	OU-5	806004.86	418989.10	40.93	E74,F74	40.93
SP4/11-02	OU-5	805927.20	510361.09	39.05	E74,F74	39.05
SP4/11-03	OU-5	806113.07	510307.76	52.14	E74,F74	52.14
ST20-01	OU-5	807104.61	510734.51	56.54	E74,F74	56.54
ST20-02	OU-5	807044.81	510704.62	55.84	E74,F74	55.84
ST20-03	OU-5	806984.65	510626.46	55.34	E74,F74	55.34
ST20-04	OU-5	807087.13	510658.18	56.35	E74,F74	56.35
ST20-05	OU-5	806928.34	510650.71	55.24	E74,F74	55.24
W-14	OU-5	805063.36	508732.80	41.20	E74,F74	41.20
W-16	OU-5	805477.97	509189.01	42.12	E74,F74	42.12
D3-01	OU-6	805080.22	513073.01	68.30	TTAN7	67.49
D3-02	OU-6	805028.92	512818.41	63.51	TTAN7	62.69
D3-03	OU-6	804864.21	512715.18	62.67	TTAN7	61.86
K-301	OU-6	807862.27	506609.32	56.41	E74,F74	56.41
K-302	OU-6	807543.53	506625.66	70.70	E74,F74	70.70
K-303	OU-6	807052.83	506560.30	43.64	E74,F74	43.64
K304 (g)	OU-6	807073.80	506452.46	6.26	Unknown	
K306 (g)	OU-6	807861.59	506340.21	5.92	Unknown	
K308 (g)	OU-6	807614.82	506494.94	4.04	Unknown	
K309 (g)	OU-6	807451.26	506501.48	5.49	Unknown	
K310 (g)	OU-6	807287.69	506485.14	5.62	Unknown	
FP-51	OU-7	808921.02	510480.30	61.95	E74,F74	61.14
FP-52	OU-7	808934.73	510508.54	62.14	E74,F74	61.33
FP-53	OU-7	808975.01	510511.43	62.51	E74,F74	61.70
FP-54	OU-7	808985.87	510484.34	62.30	E74,F74	61.49
FP-55	OU-7	808958.51	510450.13	61.95	E74,F74	61.15
FP-56	OU-7	808921.08	510477.89	61.96	E74,F74	61.15
GW-5A (h)	OU-7	808997.43	510611.37	62.09	E74,F74	62.09
W-15	OU-7	808851.69	510472.81	61.77	E74,F74	61.77
GW-3A	POL	807139.05	509744.06	52.42	E74,F74	52.42
GW-7A	POL	806487.80	510630.42	54.40	E74,F74	54.40
PT-01	POL	807135.94	509719.23	53.83	TTAN7	53.02
PT-03	POL	807132.84	509715.89	53.80	TTAN7	52.99
PT-04	POL	807119.82	509701.13	53.70	TTAN7	52.89
SP14-01	POL	806493.68	510665.14	55.46	TTAN7	54.65

TABLE H.3
(Cont'd)

Well Identification	Operable Unit Designation	Northing (m)	Easting (m)	Surveyed Measuring Point Elevation (m)	Monument Used to Establish Measuring Point Elevation	Corrected (a) Measuring Point Elevation (m)
SP14-02	POL	806271.00	510669.31	55.25	TTAN7	54.44
SP15-01	POL	807282.18	510349.76	56.40	TTAN7	55.59
SP15-02	POL	807320.91	510402.30	56.26	TTAN7	55.45
SP7/10-01	POL	807573.11	509392.98	51.60	TTAN7	50.79
SP7/10-02	POL	807591.23	509485.51	52.11	TTAN7	51.30
SP7/10-03	POL	807825.92	509432.27	55.31	TTAN7	54.50
SP7/10-04	POL	807824.99	509291.03	53.96	TTAN7	53.15
W-17 (d)	POL	806559.11	510662.40	55.04	Unknown	
W-3	POL	807867.47	512371.26	53.68	E74,F74	53.68
W-4	POL	807628.51	509658.30	51.20	E74,F74	51.20
W-9	POL	807241.79	509705.37	52.71	E74,F74	52.71
T40001	UST	807598.90	501471.52	85.91	E74,F74	85.91
T40107	UST	807566.84	508035.51	69.59	E74,F74	69.59
T40304	UST	807582.75	508279.36	67.92	E74,F74	67.92
T40503	UST	807741.88	508440.54	67.73	E74,F74	67.73
T40905 (e)	UST	807593.36	507793.73	87.79	Unknown	
T41206	UST	807686.18	507897.06	87.76	E74,F74	87.76
T41709	UST	807840.00	508184.30	83.79	E74,F74	83.79
T42202	UST	807792.27	508275.22	87.88	E74,F74	87.88
T42810 (e)	UST	807857.22	508519.48	93.01	Unknown	

(a) Refer to Table H.4 for vertical elevation correction factors.

(b) Not surveyed as of January 1993, may be surveyed in the future pending the results of the open burning/open detonation (OB/OD) area.

(c) Wellhead and point have been severely damaged and well should be abandoned.

(d) Abandoned by Jacobs Engineering Inc., March 1992.

(e) Monitoring wells need to be surveyed to establish correct well head elevations. Not surveyed in January 1993 due to weather conditions.

(f) Well was covered by asphalt and has never been surveyed.

(g) Monitoring wells have never been found.

(h) Well coordinates are unsurveyed values.

N/A - Not assigned to a specific operable unit

Table H.4
Comparison of Port of Anchorage Monument Elevations to Elmendorf AFB Monument Elevations

Port of Anchorage Elevations			
Monument Designation	**Project Elevation (feet)**	**USC&GS Published Elevation (feet)**	**Elevation Difference (feet)**
E-74	75.49	76.09	0.60
F-74	51.00	51.60	0.60
Elmendorf AFB Elevations			
Monument Designation	**Project Elevation (feet)**	**Elendorf Grid Elevation (feet)**	**Difference in Elevation (feet)**
F-4	136.34	139.06	2.72
G-1A	170.57	173.07	2.50
G-3	183.48	185.78	2.30
G-5	199.01	201.47	2.46
MB-130	176.03	178.65	2.62
N-1B	215.42	217.97	2.55
N-2A	218.06	220.64	2.58
N-3A	220.33	222.93	2.60
N-5	238.46	240.99	2.53
O-4	193.49	196.02	2.53
RY-10	154.82	157.48	2.66
TTAN7	162.89	165.54	2.65
WC-1	234.40	237.01	2.61
WC-2	248.77	251.25	2.48
J-20	204.23	206.62	2.39
RM-3 Loop2	326.46	328.76	2.30
USGS Sta. Sandbag	190.17	192.65	2.48

Note: Port of Anchorage monument elevation datum is the 1983 National Geodetic Vertical datum and the NGS 1972 adjust (mean sea level = 0.00).

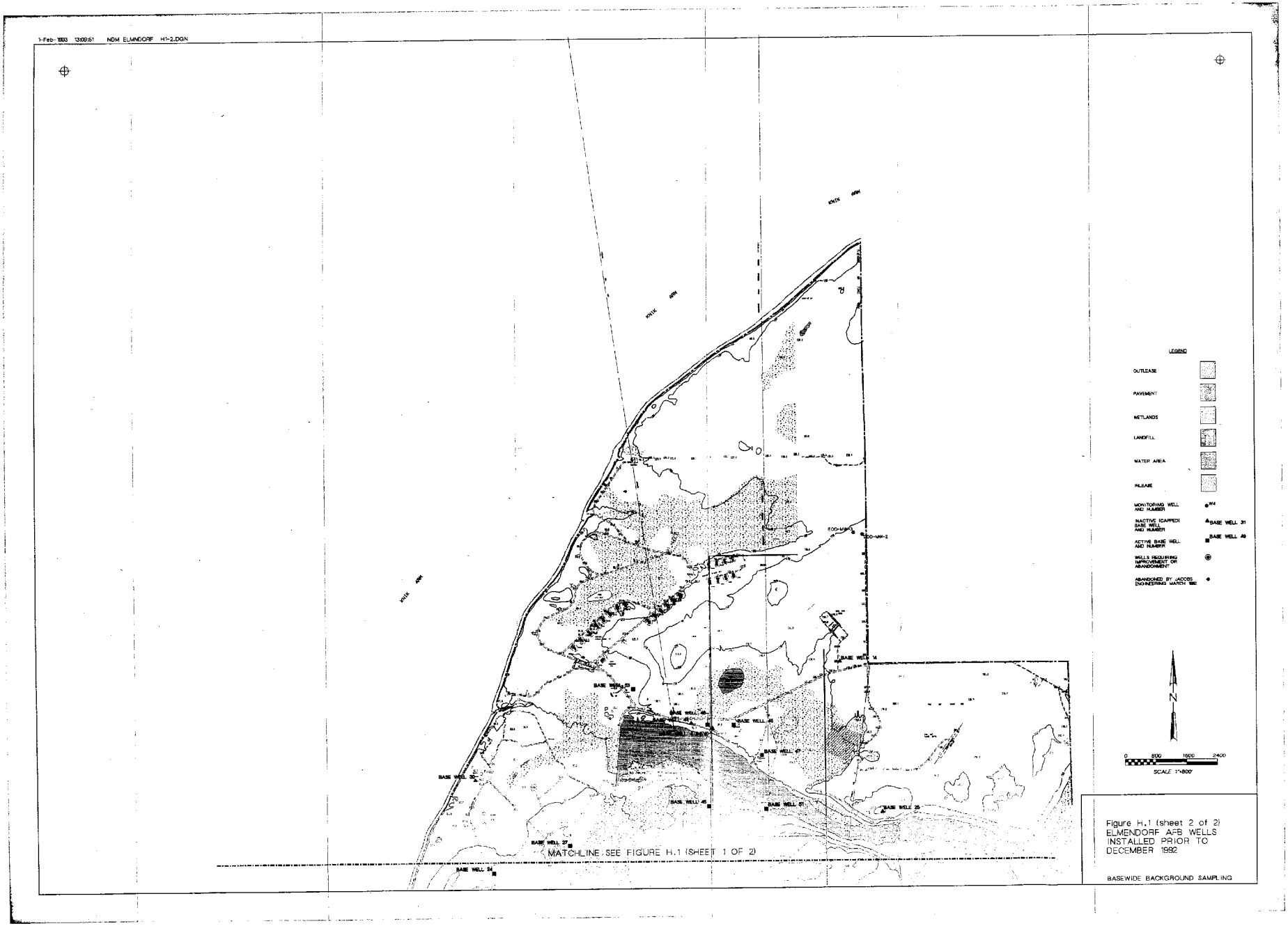


Figure H.1 (sheet 2 of 2)
ELMENDORF AFB WELLS
INSTALLED PRIOR TO
DECEMBER 1992

BASEWIDE BACKGROUND SAMPLING

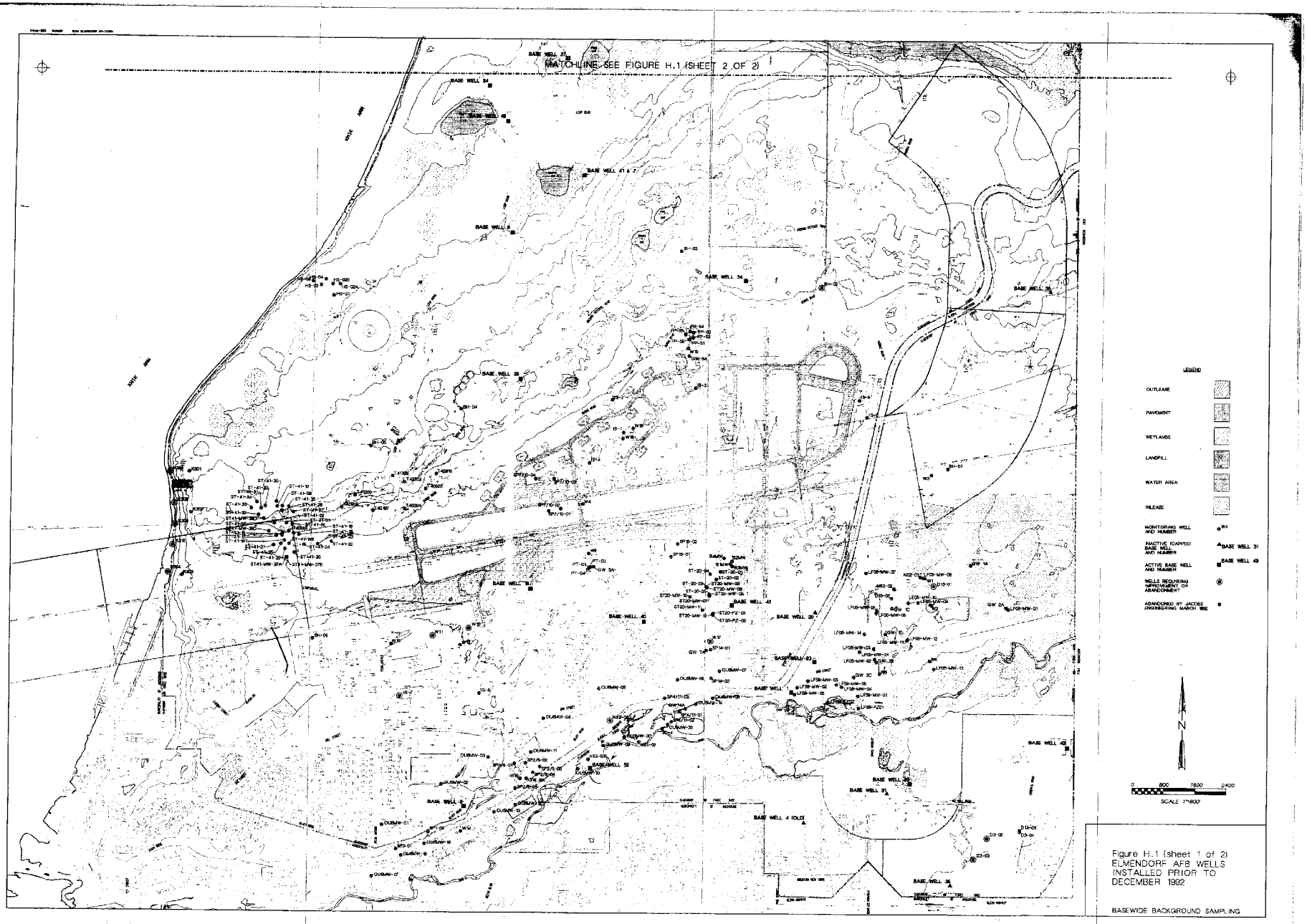


Figure H.1 (sheet 1 of 2)
ELMENDORF AFB WELLS
INSTALLED PRIOR TO
DECEMBER 1992

BASEWIDE BACKGROUND SAMPLING

APPENDIX I
SOIL BORING LOGS

Appendix I

Soil Boring Logs

SOIL BORING LOG KEY

Peat, Other Highly Organic Soils (PT)

Silty Clay (CL)

Silty Sand, Sand-Silt Mixtures (SM)

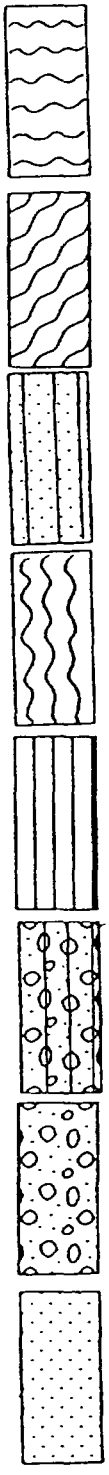
Organic Silt, Low Plasticity (OL)

Silt, Inorganic, Low Plasticity (ML)

Silty Gravel, Gravel-Sand-Silt Mixtures (GM)

Gravel, Gravel-Sand Mixtures (GW, GP)

Sand, Well to Poorly Graded (SW, SP)



PROJECT NUMBER	BORING NUMBER
ANC31026.F2.40	BSSB01 SHEET 1 OF 1

SOIL BORING LOG

PROJECT ELMENDORF BACKGROUND SAMPLING LOCATION Background Area

ELEVATION N/A DRILLING CONTRACTOR Tester Drilling

DRILLING METHOD AND EQUIPMENT Hollow Stem Auger (7" O.D.), B-61 mobile drill rig

WATER LEVELS 10.5 on 6/8/92 START 6/8/92 10:15 FINISH 6/8/92 11:00 LOGGER Rob Crotty

DEPTH BELOW SURFACE (FT)	SAMPLE INTERVAL	SAMPLE TYPE AND NUMBER	SAMPLE RECOVERY	BLOW COUNTS 6"-6"-6" (N)	SOIL DESCRIPTION	SYMBOLIC LOG	COMMENTS
	0.5	B01-1	1.5	2-3-5(a) (8)b	ORGANIC MATTER AND PEAT (PT).		DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
		B01-2	1.5	6-30-30 (60)	SILT (ML) light brown buff, moist, very stiff, non-plastic; trace of very fine sand; occasional subangular gravel to 0.5-inch diameter; rootlets and cavities throughout.		
	3.0						
5.0							
	9.0						
		B01-3	1.5	10-30-25 (55)	SILTY CLAY (CL), olive brown, moist to wet, very stiff; medium plastic lean clay with low plastic silt; trace of very fine sand and subangular gravel to 0.5-inch diameter.		B01-4 is a QA duplicate of B01-3
10.0	10.5				End of Boring @ 11.0 feet		Freewater encountered at 10.5 feet
15.0							
20.0							
25.0							

Notes:

1. BLOW COUNTS
   (a) Number of blows required to drive a 2.5-inch ID split-spoon sample for each 6-inch increment. The samplers were driven causing a 140-pound hammer free-falling 30 inches.
   (b) Sum of blows required to drive the second and third 6-inch increments.
2. The boring log and related information depict subsurface conditions only at the specific locations and dates indicated. Soil conditions and water levels at other locations may differ from conditions occurring at this boring location. Also, the passage of time may result in a change in the conditions at these locations.

CH2M HILL

PROJECT NUMBER	BORING NUMBER
ANC31026.F2.40	BSSB02 SHEET 1 OF 1

SOIL BORING LOG

PROJECT ELMENDORF BACKGROUND SAMPLING LOCATION Background Area

ELEVATION N/A DRILLING CONTRACTOR Tester Drilling

DRILLING METHOD AND EQUIPMENT Hollow Stem Auger (7" O.D.), B-61 mobile drill rig

WATER LEVELS 24.6 on 6/2/92 START 6/2/92 13:10 FINISH 6/2/92 14:30 LOGGER Rob Crotty

DEPTH BELOW SURFACE (FT)	SAMPLE INTERVAL	SAMPLE TYPE AND NUMBER	SAMPLE RECOVERY	BLOW COUNTS 6"-6"-6" (N)	SOIL DESCRIPTION	SYMBOLIC LOG	COMMENTS
	0.5	B02-1	0.5	4-4-5 (9)	ORGANIC MATTER.		No recovery during drive to 3.0 feet, took grab sample from 0.3-1.5 feet
	1.5						
	3.0	B02-2	0	6-7-8 (15)	SILTY GRAVEL (GM) brown, moist, dense, gravel to 1.5-inch diameter with nonplastic silt, trace of very fine sand with organics including roots to 2.5 feet.		
5.0							
	8.0						
	9.5	B02-3	1.0	20-40-43 (83)	SILTY GRAVEL (GM), similar to B02-2, very dense, occasional cobble to > 3.5-inch diameter and gray lean clay laminae.		
10.0							
	13.0						
	14.5	B02-4	1.5	21-25-40 (85)			Easier drilling at 14.7 feet and gravel fraction decreasing
15.0					GRAVELLY SILT with SAND (ML), brown, moist very stiff becoming hard; medium plasticity, low toughness; subround gravel to > 2.5-inch diameter with very fine to medium subangular sand; occasional cobble and occassional gray lean clay laminae.		
20.0							
					Becomes wet at 24.6 feet.		
25.0					End of boring at 25.0 feet		Freewater encountered after allowing to sit for 15 minutes at 24.6 feet

PROJECT NUMBER	BORING NUMBER
ANC31026.F2.40	BSS803 SHEET 1 OF 1

SOIL BORING LOG

PROJECT ELMENDORF BACKGROUND SAMPLING LOCATION Background Area

ELEVATION N/A DRILLING CONTRACTOR Tester Drilling

DRILLING METHOD AND EQUIPMENT Hollow Stem Auger (7" O.D.), B-61 mobile drill rig

WATER LEVELS ____ START 6/8/92 09:00 FINISH 6/8/92 10:00 LOGGER Rob Crotty

DEPTH BELOW SURFACE (FT)	SAMPLE INTERVAL	SAMPLE TYPE AND NUMBER	SAMPLE RECOVERY	BLOW COUNTS 6"-6"-6" (N)	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	SYMBOLIC LOG	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	0.5	B03-1	0.1	2-2-2 (4)	ORGANIC MATTER AND PEAT (PT).		
		B03-2	1.0	5-5-10 (15)	SILT (ML) brown, moist, soft non-plastic organics (rootlets) and cavities throughout; trace of very fine sand.		
	3.0						
	4.0				GRAVELLY SILT (ML), greenish brown, moist, stiff, non-plastic with subangular gravel to 0.5-inch diameter; trace of very fine sand with occasional organics.		
5.0		B03-3	2.0	10-14-14 (28)			B03-4 is a QA duplicate of B03-3
	6.0				SILTY SAND (SM), brown, moist, medium dense; very fine to coarse subangular sand; trace of subangular gravel to 0.7-inch diameter.		
10.0							
15.0							
	19.0						
20.0	20.5	B03-5	2.5	13-30-38 (68)	SILTY CLAY (CL), olive brown, moist, hard; lean medium plastic clay with non-plastic silt; trace of very fine sand with occasional subrounded gravel to 1-inch diameter. Becomes wet at 20.1 feet.		Freewater encountered at 20.1 feet
					End of boring at 21.0 feet.		
25.0							

PROJECT NUMBER	BORING NUMBER
ANC31026.F2.40	BSSB04 SHEET 1 OF 1

SOIL BORING LOG

PROJECT ELMENDORF BACKGROUND SAMPLING LOCATION Background Area 5

ELEVATION N/A DRILLING CONTRACTOR Tester Drilling

DRILLING METHOD AND EQUIPMENT Hollow Stem Auger (7" O.D.), B-61 mobile drill rig

WATER LEVELS START 6/4/92 13:40 FINISH 6/4/92 15:00 LOGGER Rob Crotty

DEPTH BELOW SURFACE (FT)	SAMPLE INTERVAL	SAMPLE TYPE AND NUMBER	SAMPLE RECOVERY	BLOW COUNTS 6"-6"-6" (N)	SOIL DESCRIPTION	SYMBOLIC LOG	COMMENTS
	0.5	B04-1 B04-2	1.0	3-5-7 (12)	ORGANIC MATTER AND PEAT (PT).		B04-2 is a duplicate of B04-1
		B04-3	1.0	7-20-26 (46)	SILT (ML), brown, moist, stiff, non-plastic; with trace of very fine sand; rootlets and cavities throughout.		
	3.0				GRAVEL with SAND and SILT (GP-GM), brown, moist, dense; subrounded gravel to > 2.5-inch diameter with very fine to course subangular sand and nonplastic silt.		
5.0					GRAVEL with SAND (GP), brown, moist, dense subrounded gravel to >2.5-inch diameter and coarse subangular sand; trace non-plastic silt and occasional cobble to 4-inch diameter and trace organics from 2.9 to 3.6 feet.		
	9.0						
10.0	10.5	B04-4	1.0	26-42-46 (88)	1.5-inch coal layer at 10.5 feet depth.		
15.0							
20.0							
25.0					End of boring at 30.5 feet		No freewater encountered

PROJECT NUMBER	BORING NUMBER
ANC31026.F2.40	BSSB05 SHEET 1 OF 1

SOIL BORING LOG

PROJECT ELMENDORF BACKGROUND SAMPLING LOCATION Background Area 3

ELEVATION N/A DRILLING CONTRACTOR Tester Drilling

DRILLING METHOD AND EQUIPMENT Hollow Stem Auger (7" O.D.), B-61 mobile drill rig

WATER LEVELS 21.9 on 6/1/92 START 6/1/92 16:20 FINISH 6/1/92 17:59 LOGGER Rob Crotty

DEPTH BELOW SURFACE (FT)	SAMPLE INTERVAL	SAMPLE TYPE AND NUMBER	SAMPLE RECOVERY	BLOW COUNTS 6"-6"-6" (N)	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	SYMBOLIC LOG	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	0.5	B05-1	1.5	2-1-2 (3)	ORGANIC MATTER AND PEAT (PT).		
		B05-2	2.5	1-2-2 (4)	SILT (ML), light brownish buff, moist, soft, non-plastic; gray-brown slightly plastic 1-inch layers throughout with trace of organics and rootlets and traces of very fine sand.		
	3.0				DARK BROWN PEAT (PT), inter-layered with SILT LAMINAE.		
5.0					POORLY GRADED GRAVEL with SAND and SILT (GP-GM), brown, moist, subrounded gravel to > 2.5-inch diameter; very fine to coarse subangular sand with non-plastic silt.		
	7.5						
	9.0	B05-3	1.0	117-67-80 (147)	POORLY GRADED GRAVEL with SAND (GP), dark brown, moist, very dense; subrounded gravel to >2.5-inch diameter with occasional cobble to 5.0-inch diameter; medium to coarse subangular sand.		
10.0							
	12.5						
	14.0	B05-4	1.5	60-70-70 (140)			
15.0							Increased drilling rate at 17.8 feet
20.0					Becomes wet at 21.9 feet.		Freewater encountered at 21.9 feet
					End of boring at 22.5 feet		
25.0							

PROJECT NUMBER	BORING NUMBER
ANC31026.F2.40	BSSB06 SHEET 1 OF 1

SOIL BORING LOG

PROJECT ELMENDORF BACKGROUND SAMPLING LOCATION Background Area

ELEVATION N/A DRILLING CONTRACTOR Tester Drilling

DRILLING METHOD AND EQUIPMENT Hollow Stem Auger (7" O.D.), B-61 mobile drill rig

WATER LEVELS 3.1 on 6/2/92 START 6/2/92 16:40 FINISH 6/2/92 16:45 LOGGER Rob Crotty

DEPTH BELOW SURFACE (FT)	SAMPLE INTERVAL	SAMPLE TYPE AND NUMBER	SAMPLE RECOVERY	BLOW COUNTS 6"-6"-6" (N)	SOIL DESCRIPTION	SYMBOLIC LOG	COMMENTS
	0.5	B06-1	1.0	1-1-2 (3)	ORGANIC MATTER AND PEAT (PT).		
		B06-1	1.5	8-8-8 (16)	SILTY SAND (SM), dark brown to brown, moist, loose, very fine to coarse sand with non-plastic silt; occassional rootlets to 3 feet.		
	3.0						Freewater encountered at 3.0 feet
					End of boring at 4.0 feet		
5.0							
10.0							
15.0							
20.0							
25.0							
	30.0						

PROJECT NUMBER	BORING NUMBER
ANC31026.F2.40	BSSB07 SHEET 1 OF 1

SOIL BORING LOG

PROJECT ELMENDORF BACKGROUND SAMPLING LOCATION Background Area

ELEVATION N/A DRILLING CONTRACTOR Tester Drilling

DRILLING METHOD AND EQUIPMENT Hollow Stem Auger (7" O.D.), B-61 mobile drill rig

WATER LEVELS 19.7 on 6/2/92 START 6/2/92 10:40 FINISH 6/2/92 11:57 LOGGER Rob Crotty

DEPTH BELOW SURFACE (FT)	SAMPLE INTERVAL	SAMPLE TYPE AND NUMBER	SAMPLE RECOVERY	BLOW COUNTS 6"-6"-6" (N)	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	SYMBOLIC LOG	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	0.5	B07-1	1.5	6-10-16 (26)	SILT (ML) light brown, moist, firm, trace of very fine sand with rootlets.		
		B07-2	1.0	25-35/6"	POORLY GRADED GRAVEL with SILT, COBBLES and BOULDERS (GP-GM), brown, moist, very dense, about 50% subrounded gravel to 1.5-inch diameter with 35% non-plastic silt; cobbles, and boulders to > 8-inch diameter; trace of very fine sand.		Sampler refused at 2.5 feet, hard drilling
	3.0						
5.0							
	8.0						
	8.8	B07-3	0.6	60-120/8"	SILTY GRAVEL with SAND (GM), brown, moist, very dense; subangular to subrounded gravel to 1.5-inch diameter with non-plastic silt and fine to medium subangular sand, occasional cobble.		
10.0							Easier drilling at 11.5 feet
	14.5						
15.0	15.6	B07-4	1.1	40-60-120/13"	GRAVELLY SILT (ML), brown, moist becoming wet at 19.7 feet; hard, medium plastic with low dilatancy subrounded gravel to 1-inch diameter; trace sand; occasional lean clay laminae.		
					▼		
20.0					End of boring at 20.0 feet.		Freewater encountered at 19.7 feet
25.0							

PROJECT NUMBER	BORING NUMBER
ANC31026.F2.40	BSSB08 SHEET 1 OF 2

SOIL BORING LOG

PROJECT ELMENDORF BACKGROUND SAMPLING LOCATION Background Area 5

ELEVATION N/A DRILLING CONTRACTOR Tester Drilling

DRILLING METHOD AND EQUIPMENT Hollow Stem Auger (7" O.D.), B-61 mobile drill rig

WATER LEVELS START 6/4/92 15:50 FINISH 6/5/92 08:50 LOGGER Rob Crotty

DEPTH BELOW SURFACE (FT)	SAMPLE INTERVAL	SAMPLE TYPE AND NUMBER	SAMPLE RECOVERY	BLOW COUNTS 6"-6"-6" (N)	SOIL DESCRIPTION	SYMBOLIC LOG	COMMENTS
	0.5	B08-1	1.0	2-1-6 (7)	ORGANIC MATTER AND PEAT (PT).		
	2.0	B08-2 B08-3	0.3	60/5"	ORGANIC SILT (OL), dark brown, moist, soft SILT (ML), light brown moist, soft becoming firm; non-plastic; trace organics including rootlets and trace subangular gravel to 0.4-inch diameter.		B08-3 is a duplicate of B08.2. Refusal in second drive at 2.0 feet.
							Driller notes very hard, slow drilling at 2.5 feet
5.0					POORLY GRADED GRAVEL with COBBLES and BOULDERS (GP), brown, moist very dense; subrounded gravel to 3-inch diameter with subrounded cobbles and boulders; trace non-plastic silt and coarse subangular sand.		
	9.5						Driller notes increased drilling rate at 9.0 feet
10.0	10.5	B08-4	1.0	46-75/12"	POORLY GRADED GRAVEL with SAND and COBBLES (GP), brown, moist, very dense; subrounded gravel to 3-inch diameter with occassional subangular platy coal in gravel fraction. Medium is greater than coarse subrounded sand; subrounded cobbles to 5-inch diameter with trace of non-plastic silt.		
15.0							
20.0							End drilling for 6/4/92 at 18:45, begin drilling on 6/5/92 at 07:45
					GRAVEL with BOULDERS and COBBLES (GP), brown, moist, very dense, subrounded gravle fraction from 0.5-inch to 3.0-inch diameter; subrounded cobbles and boulders; trace non-plastic silt and trace of sand.		
25.0							At 25 feet, rig was standing on end of auger. Very hard drilling at 22 feet.

PROJECT NUMBER	BORING NUMBER
ANC31026.F2.40	BSSB08 SHEET 2 OF 2

SOIL BORING LOG

PROJECT ELMENDORF BACKGROUND SAMPLING LOCATION Background Area 5

ELEVATION N/A DRILLING CONTRACTOR Tester Drilling

DRILLING METHOD AND EQUIPMENT Hollow Stem Auger (7" O.D.), B-61 mobile drill rig

WATER LEVELS START 6/4/92 15:50 FINISH 6/5/92 08:50 LOGGER Rob Crotty

DEPTH BELOW SURFACE (FT)	SAMPLE: INTERVAL	SAMPLE: TYPE AND NUMBER	SAMPLE: RECOVERY	BLOW COUNTS 6"-6"-6" (N)	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	SYMBOLIC LOG	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
					GRAVEL with COBBLES (GP), brown, moist, very dense; subrounded gravel fraction to 3.0-inch diameter with subrounded cobbles; trace fo sand and trace of silt.		
35.0					End of boring at 35.0 feet		No freewater encountered
40.0							
45.0							
50.0							
55.0							

CH2M HILL

PROJECT NUMBER	BORING NUMBER
ANC31026.F2.40	BSSB09 SHEET 1 OF 2

SOIL BORING LOG

PROJECT ELMENDORF BACKGROUND SAMPLING LOCATION Background Area 5

ELEVATION N/A DRILLING CONTRACTOR Tester Drilling

DRILLING METHOD AND EQUIPMENT Hollow Stem Auger (7" O.D.), B-61 mobile drill rig

WATER LEVELS Not encountered 6/3/92 START 6/3/92 13:40 FINISH 6/4/92 10:00 LOGGER Rob Crotty

DEPTH BELOW SURFACE (FT)	SAMPLE INTERVAL	SAMPLE TYPE AND NUMBER	SAMPLE RECOVERY	BLOW COUNTS 6"-6"-6" (N)	SOIL DESCRIPTION	SYMBOLIC LOG	COMMENTS
					SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY		DEPTH OF CASING, DRILLING RATE DRILLING FLUID LOSS TESTS AND INSTRUMENTATION
	0.5	B09-1	1.5	3-3-4	ORGANIC MATTER.		Rig down at 13:40 on 6/3/92, rig back up at 08:00 on 6/4/92
		B09-2		(7)	ORGANIC SILT (OL), dark brown, moist, firm, trace of very fine sand.		
		B09-3	1.5	3-30-35 (65)	SILT (ML), light brown, moist, firm, non-plastic, no dilatancy roots and rootlet cavities throughout.		
	3.0						
	4.0				GRAVEL WITH SAND (GP), brown, moist, dense, subangular gravel to > 2.5-inch diameter, medium to coarse subangular sand; trace non-plastic silt.		B09-2 is a duplicate of B09-1
5.0	5.5	B09-4	0.8	17-29-32 (61)			
10.0					SAND (SP), brown, moist.		Easy drilling from 9.5 to 11.0 feet, indicates sand drilling action
					GRAVEL WITH SAND (SP), brown, moist, very dense; subangular to subrounded platy gravel to >2.5-inch diameter with *medium to coarse grained subangular sand*; occasional subrounded cobble to 4-inch diameter with trace of non-plastic silt.		Hard drilling at 11.0 feet, indicates gravel
	14.0						
	14.7	B09-5	0.3	90-41/8"			
15.0							
20.0							
25.0					Occasional coal lens; subangular platy coal to 1-inch diameter from 23.5 to 39.0 feet.		

PROJECT NUMBER	BORING NUMBER
ANC31026.F2.40	BSSB09 SHEET 2 OF 2

SOIL BORING LOG

PROJECT ELMENDORF BACKGROUND SAMPLING LOCATION Background Area 5

ELEVATION N/A DRILLING CONTRACTOR Tester Drilling

DRILLING METHOD AND EQUIPMENT Hollow Stem Auger (7" O.D.), B-61 mobile drill rig

WATER LEVELS Not encountered 6/3/92 START 6/3/92 13:40 FINISH 6/4/92 10:00 LOGGER Rob Crotty

DEPTH BELOW SURFACE (FT)	SAMPLE: INTERVAL	SAMPLE: TYPE AND NUMBER	SAMPLE: RECOVERY	BLOW COUNTS 6"-6"-6" (N)	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	SYMBOLIC LOG	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
35.0							
					End of boring at 39.0 feet		No freewater encountered
40.0							
45.0							
50.0							
55.0							

PROJECT NUMBER	BORING NUMBER
ANC31026.F2.40	BSSB10 SHEET 1 OF 1

SOIL BORING LOG

PROJECT ELMENDORF BACKGROUND SAMPLING LOCATION Background Area 3

ELEVATION N/A DRILLING CONTRACTOR Tester Drilling

DRILLING METHOD AND EQUIPMENT Hollow Stem Auger (7" O.D.), B-61 mobile drill rig

WATER LEVELS 19.2 on 6/2/92 START 6/2/92 07:40 FINISH 6/2/92 09:15 LOGGER Rob Crotty

DEPTH BELOW SURFACE (FT)	SAMPLE INTERVAL	SAMPLE TYPE AND NUMBER	SAMPLE RECOVERY	BLOW COUNTS 6"-6"-6" (N)	SOIL DESCRIPTION	SYMBOLIC LOG	COMMENTS
					SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY		DEPTH OF CASING, DRILLING RATE DRILLING FLUID LOSS TESTS AND INSTRUMENTATION
	0.5	B10-1	1.5	1-2-3 (5)	ORGANIC MATTER AND PEAT (PT).		
		B10-2	1.5	8-25-50 (75)	SILT (ML), light brownish buff, moist, firm, slightly plastic, mottled aray, brown 1-inch layers; trace of very fine sand; rootlets and rootlet cavities throughout.		
	3.0						
	4.0				POORLY GRADED GRAVEL with SAND and SILT (GP-GM), brown, moist, very dense, subangular to subrounded gravel to > 2.5-inch diameter; fine to coarse subangular sand with non-plastic silt.		
5.0	5.5	B10-3	1.5	33-32-42 (74)			
					POORLY GRADED GRAVEL with SAND (GP), brown, moist, very dense; subangular to round gravel to > 2.5-inch diameter with occasional cobble; medium to coarse subangular sand; trace of silt, 1-inch coal lens at 9.2 feet.		
	8.0						
		B10-4	1.0	45-50-40 (90)			
10.0	10.0						
15.0							
20.0					Becomes wet at 19.2 feet. ▼		Freewater originally encountered at 19.2 feet on 6/2/92, continued drilling, auger seems to be sealing off boring
25.0					End of boring at 24.0 feet		

PROJECT NUMBER	BORING NUMBER
ANC31026.F2.40	BSSB11 SHEET 1 OF 1

SOIL BORING LOG

PROJECT ELMENDORF BACKGROUND SAMPLING LOCATION Background Area 3

ELEVATION N/A DRILLING CONTRACTOR Tester Drilling

DRILLING METHOD AND EQUIPMENT Hollow Stem Auger (7" O.D.), B-61 mobile drill rig

WATER LEVELS 17.4 on 6/1/92 START 6/1/92 14:40 FINISH 6/1/92 15:40 LOGGER Rob Crotty

DEPTH BELOW SURFACE (FT)	SAMPLE INTERVAL	SAMPLE TYPE AND NUMBER	SAMPLE RECOVERY	BLOW COUNTS 6"-6"-6" (N)	SOIL DESCRIPTION	SYMBOLIC LOG	COMMENTS
					SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY		DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	0.5	B11-1	0.5	1 (6) 31-67/12"	ORGANIC MATTER AND PEAT (PT).		
		B11-2	1.0		SILT (ML), light brownish buff, moist, soft, 1-inch layers of gray brown; nonplastic, trace of rootlets and very fine sand.		
	2.5				POORLY GRADED GRAVEL with SAND and SILT (GP-GM), dark brown, moist, dense to very dense, subangular becoming rounded gravel to 2.5-inch diameter with occasional cobbles; very fine to medium subangular sand and slightly plastic silt.		Refusal at 2.5 on cobble
5.0							
10.0							
	12.0						
	13.5	B11-3	1.3	30-60-90 (150)	POORLY GRADED GRAVEL WITH SAND (GP), dark brown, moist to wet, very dense, subrounded gravel to 2.5-inch diameter with occasional cobble, and anthracite coal layers to 1-inch; fine to coarse subrounded sand.		
15.0							Freewater encountered at 17.4 feet
					End of boring at 17.5 feet		
20.0							
25.0							

PROJECT NUMBER	BORING NUMBER
ANC31026.F2.40	BSSB12 SHEET 1 OF 1

SOIL BORING LOG

PROJECT ELMENDORF BACKGROUND SAMPLING LOCATION Background Area 5

ELEVATION N/A DRILLING CONTRACTOR Tester Drilling

DRILLING METHOD AND EQUIPMENT Hollow Stem Auger (7" O.D.), B-61 mobile drill rig

WATER LEVELS START 6/4/92 13:15 FINISH 6/4/92 15:15 LOGGER Rob Crotty

DEPTH BELOW SURFACE (FT)	SAMPLE INTERVAL	SAMPLE TYPE AND NUMBER	SAMPLE RECOVERY	BLOW COUNTS 6"-6"-6" (N)	SOIL DESCRIPTION	SYMBOLIC LOG	COMMENTS
	0.5	B12-1	0.5	3-6-7 (13)	ORGANIC MATTER AND PEAT (PT).		B12-3 is a duplicate of B12-2
		B12-2 B12-3		8-16-14 (30)	SILT (OL), brown, moist, stiff; non-plastic with occasional gravel to 2-inch diameter and rootlets.		
	2.5				GRAVEL with SAND (GP), brown, moist, medium dense, subangular gravel to 2-inch diameter with fine greater than coarse subrounded sand; trace non-plastic silt with occasional subrounded cobble to 5-inch diameter.		
5.0							
10.0							
	14.0						
	15.0	B12-4 B12-5	1.3	30-60-90 (150)	Becomes dense to very dense.		B12-5 is a duplicate of B12-4
15.0							
20.0							
25.0							Very hard drilling, standing rig on auger stem, possibly boulder at depth
					End of boring at 26.0 feet		

PROJECT NUMBER	BORING NUMBER
ANC31026.F2.40	BSSB13 SHEET 1 OF 1

SOIL BORING LOG

PROJECT ELMENDORF BACKGROUND SAMPLING LOCATION Background Area 5

ELEVATION N/A DRILLING CONTRACTOR Tester Drilling

DRILLING METHOD AND EQUIPMENT Hollow Stem Auger (7" O.D.), B-61 mobile drill rig

WATER LEVELS 6.3 on 6/3/92 at 10:15 START 6/3/92 08:30 FINISH 6/3/92 10:10 LOGGER Rob Crotty

DEPTH BELOW SURFACE (FT)	SAMPLE INTERVAL	SAMPLE TYPE AND NUMBER	SAMPLE RECOVERY	BLOW COUNTS 6"-6"-6" (N)	SOIL DESCRIPTION	SYMBOLIC LOG	COMMENTS
					SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY		DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	0.5	B13-1	1.0	2-2-30 (32)	ORGANIC MATTER AND PEAT (PT).		
		B13-2	0.4	70-75/12"	ORGANIC SILT (OL), dark brown, moist, soft, non-plastic; trace of very fine sand.		
	2.5				SILT (ML), light brownish buff, moist, soft, non-plastic; occasional rootlets and cavities.		Refusal at 2.5 feet
			1.5	36-70-50 (120)			B13-4 is a duplicate of B13-3
	4.5				WELL GRADED GRAVEL with SAND and COBBLES (GW), brown, moist to wet, very dense; subrounded gravel to > 2.5-inch diameter with medium to coarse subangular sand and subrounded cobbles to 4.0-inch diameter.		
5.0	5.5		1.0	72-70/12"			B13-6 is a duplicate of B13-5
							Freewater encountered at 7.0 feet at 10:00 and at 6.3 feet at 10:15
					CLAY (CL), gray, wet, low-plasticity. Bootlegger cove formation.		Driller notes easier drilling at 7.0 feet
					End of boring at 9.0 feet		
10.0							
15.0							
20.0							
25.0							

PROJECT NUMBER	BORING NUMBER
ANC31026.F2.40	BSSB14 SHEET 1 OF 2

SOIL BORING LOG

PROJECT ELMENDORF BACKGROUND SAMPLING LOCATION Background Area 8

ELEVATION N/A DRILLING CONTRACTOR Tester Drilling

DRILLING METHOD AND EQUIPMENT Hollow Stem Auger (7" O.D.), B-61 mobile drill rig

WATER LEVELS 8.3 to 8.5 feet on 6/5/92 START 6/5/92 11:30 FINISH 6/5/92 13:00 LOGGER Rob Crotty

DEPTH BELOW SURFACE (FT)	SAMPLE INTERVAL	SAMPLE TYPE AND NUMBER	SAMPLE RECOVERY	BLOW COUNTS 6"-6"-6" (N)	SOIL DESCRIPTION	SYMBOLIC LOG	COMMENTS
					SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY		DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	0.5	B14-1	1.0	2-2-2 (4)	ORGANIC MATTER AND PEAT (PT).		
		B14-2	1.0	16-22-30 (52)	SILT (ML), light brown, moist, soft, non-plastic; trace of very fine sand, occasional subangular gravel to 0.5-inch diameter to 2.0 feet; rootlets and rootlet cavities to 2.5 feet.		
	3.0				GRAVEL with SILT and SAND (GP-GM), brown, moist, dense, subrounded, gravel to 3-inch diameter with occasional subrounded cobble to 4-inch diameter; non-plastic silt with very fine to medium subangular sand; trace organics to 3.0 feet.		
5.0							
	8.0						
	8.4	B14-3	0.2	80/5	Becomes wet at 8.3 feet to 8.5 feet (perched water).		Increasing sand fraction
10.0							
15.0							
					SAND (SP), brownish gray, moist; trace gravel.		
20.0							
					POORLY GRADED SAND with GRAVEL (SP), brownish gray, moist, very dense, medium to coarse subrounded sand with subangular gravel to 1-inch diameter.		
	24.0						
	25.0	B14-4	1.0	72-140/12			
25.0							

PROJECT NUMBER	BORING NUMBER
ANC31026.F2.40	BSSB14 SHEET 2 OF 2

SOIL BORING LOG

PROJECT ELMENDORF BACKGROUND SAMPLING LOCATION Background Area 8

ELEVATION N/A DRILLING CONTRACTOR Tester Drilling

DRILLING METHOD AND EQUIPMENT Hollow Stem Auger (7" O.D.), B-61 mobile drill rig

WATER LEVELS 8.3 to 8.5 feet on 6/5/92 START 6/5/92 11:30 FINISH 6/5/92 13:00 LOGGER Rob Crotty

DEPTH BELOW SURFACE (FT)	SAMPLE: INTERVAL	SAMPLE: TYPE AND NUMBER	SAMPLE: RECOVERY	BLOW COUNTS 6"-6"-6" (N)	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	SYMBOLIC LOG	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
35.0					End of boring at 35.0 feet		
40.0							
45.0							
50.0							
55.0							

APPENDIX J
SOIUL SAMPLING
FIELD LOG BOOK

Appendix J

Soil Sampling Field Logbook

"Rite in the Rain"®

ALL-WEATHER

LEVEL

Notebook No. 311

ELMENDORF AFB
PROJECT
ANC310
BACKGROUND
GW
BOOK 1 of 3

"Rite in the Rain" - A unique All-Weather Writing Paper created to shed water and enhance the written image. It is widely used throughout the world for recording critical field data in all kinds of weather.

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G. Robert Crotty
Environmental Geologist

CH2M HILL
Denali Towers North
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Anchorage, Alaska 99503

907.278.2551
907.277.9736 (FAX)

Engineers Planners Economists Scientists

INDEX of SB/BOOK 1/QA/QC

DESCRIPTION	PAGE NO. QA/QC
- INDEX	I
- ABBREVIATIONS & CONTACT NO.S	II
- FIELD ACTIVITIES on 06/01/92	1-

ABBREVIATIONS:

N.T.S. — "NOT TO SCALE"
S.B. — "SOIL BORING (TITLE PAGE ONLY)
BSSB01- "Background Sample Soil Boring #1"

PHONE CONTACTS:

MONDAY 06/01/92 dlc 06/01/92.
WEATHER: OVERCAST, ~ 50°F, NO WIND

ONSITE PERSONNEL:
ROB CROTTY / CH2M HILL
BORT MILLER / CH2M HILL
TIM TESTER / TESTER
SCOTT LANGELL / TESTER

FIELD EQUIPMENT	SERIAL NO.	CALIBRATED?*
HNU	HAZCO 591005	62 @ 100 ppm Isob
EXPLOSIMETER	Hazco 2230	ALARM @ 10 LEL HEXANE

* CALIBRATION FORMS INCLUDED AS SEPERATE PROJECT DOCUMENT
Rob Crotty 06/01/92

0800 - Held safety meeting at CH2M HILL with driller/driller helper (Documented seperately)

0930 - collected badges at Bonfacc GATE.

1010 - ~~begin laying out borings~~ ~~BSSB10, BH-11~~ BSSB10, BSSB11, BSSB12 & BSSB41 RL 06/1/92

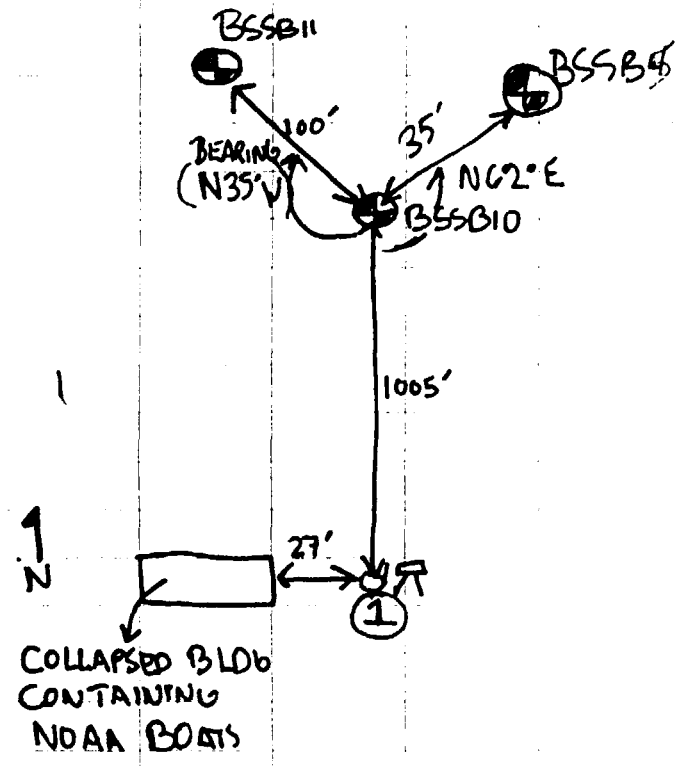
(NOTE BSSB 10 & 11 will be >1000 feet from NOAA CAMP. BSSB12 & BSSB41 > 2000 feet)

1015 - Begun setting up for job

1030 - laying out borings, began access trail to BSSB10

Rol Lotty 06/01/92

BORING LOCATION (N.T.S.)



STA NO.	DISTANCE TO:	BEARING
(1)	1005 ft	BSSB10 N0°W
BSSB10	100 ft	BSSB11 N35°W
BSSB10	35 ft	BSSB41 N62°E

Rol Lotty 06/01/92

DRILLING DIARY

Pg 4

~~MAST↑~~ RL 06/01/92

BORING	MAST↑	MAST↓	DATE	BOHE
BSSB11	1435 (RL 06/01/92	1550	06/01/92	17.5'

1435 — Begin drilling at the yarding rig to BSSB11.

1450 — Water from tank. Determined to contain iron oxide (rust) in water. ∴ Water not acceptable. Used DISTILLED WATER TO AVOID having to slow down drilling program

1550 — mast down, move to BSSB04

Rob Crotty 06/01/92

Pg 5

SAMPLE LOG

BORING	SAMPLE NO.	DATE	TIME	TYPE	DEPTH
BSSB11	- 01	06/01/92	1440	SS	0-0.5'
BSSB11	- 02	06/01/92	1450	[illegible]	0.5-2.5'
BSSB11	- 03	06/01/92	1530	[illegible]	12-13.5'

Rob Crotty 06/01/92

HNU & EXPLOSIMETER LOG

BORING	DEPTH	SAMPLE TYPE/COND.	HNU (PPM)	EXPLOSIMETER O_2/(LEL) %
BSSB11	0.-0.5	SS	0	21.1/0
	0.5-2.5	SS	0	21.1/0
	2.5-7.0	GRAB	0	21.1/0
	7.0-12.0	GRAB	0	21.1/0
	12-13.5	SS	0	21.1/0
	13.5-17.9	GRAB	0	21.1/0

01 June 92

PHOTO LOG

BORINGS 01 JUNE 92

PHOTO #	SAMPLE #	DATE
1	BSSB11-01	01 JUN 92
2	BSSB11-02	01 JUN 92
3	BSSB11-03	01 JUN 92

01-JUL 92

DRILLING DIARY

BORING	MAST ↑	MAST ↓	DATE	BOTTL
BSSBO5	1620	1755	01 JUN 92	22.5
~~BSSBO7 1030~~	~~BM 01 JUN 92~~			

SAMPLE LOG

BORING	SAMPLE NO.	DATE	TIME	[illegible]	[illegible]
BSSBO5	- 01	01 JUN 92	1640	[illegible]	[illegible]
BSSBO5	- 02	01 JUN 92	1645	[illegible]	[illegible]
BSSBO5	- 03	01 JUN 92	1700	SS	7.5 - 9.5
BSSBO5	- 04	01 JUN 92	1720	SS	12.5 - 14
~~BSRB - 02~~		~~BM 01 JUN 92~~			

[illegible] 01 JUN 92

[illegible] 01 JUN 92

Hi-Vol/Extraction Log — Pg 10 — Photo Log

Borehole	Depth	Sample Type	HNO_3	Extraction Ca/TCL	Photo #	Sample #	Date
BSSBOX (5 cm of foam)	0-0.5	SS	0	21.1/0	4	BSSBOX (5 cm of foam) -01	01 JUN 92
↓	2.5-3	SS	0	21.1/0	5	BSSBOX (5 cm of foam) -02	01 JUN 92
	7.5-9.5 (CC collected)	SS	0	21.1/0	6	BSSBOX (5 cm of foam) -03	01 JUN 92
	12.5-14	SS	0	21.1/0	7	BSSBOX (5 cm of foam) -04	01 JUN 92
	/						

B Mills 01 Jun 92

B Mills 01 Jun 92

Pg 12

1800 - Leave site
1830 - arrive office, Calibrate instruments and review
1900 - then Lexan notes
1915 - End of Shift

Pg 13

TUESDAY 06/02/92

WEATHER: Partly Cloudy, 50°

ONSITE PERSONNEL:

ROB CROTTY / CH2M HILL
BURT MILLER / CH2M HILL
TIM TESTER / TESTER
SCOTT LANGELL / TESTER

FIELD EQUIP.	SERIAL #	CALIBRATED
HNU		
~~EXPLOSIMETER~~ Pg 12.	HAZLO 551005	62 @ 100 ppm isob. SPAN = 9.8
EXPLOSIMETER	HAZLO 2230	HEXANE ALARM SOUNDS @ 10% LEL

0630 CAL. INSTRUMENTS
0715 on-site
1900 Return to office
1930 Cal. instruments

Rob Crotty 06/01/92

B Miller 02 JUN 92

Pg 14

BORING LOCATION

Pg 15

Drilling Diary

BORING	MAST ↑	MAST ↓	DATE	BGH
BSSB10	0745	0915	02 JUN 92	24.0'
BSSB07	1030	1300	02 JUN 92	20.0'
BSSB02	1300	1420	02 JUN 92	25.0'
BSSB06	1635	1700	02 JUN 92	4.5'

NOTE: Bob McDaniel ~~Frocking~~ moved Drill 02 JUN 92 from BSSB10 to BSSB07

Brulla 02 JUN 92

SAMPLE LOG

BORING	SAMPLE NUMBER	DATE	TIME	TYPE	DEPTH
BSSB10	01	02 JUN 92	0750	SS	0-0.5'
"	02	"	0800	"	.5-3'
"	03	"	0815	"	4'-5'
"	04	"	0830	"	8-10
~~BSSB07~~ BH					
BSRB	02	02 JUN 92	1030	RINSATE	N.A.
BSSB07	01	"	1045	SS	0-.5'
BSSB07	02	"	1100	SS	.5-2.5'
BSSB07	03	"	1115	SS	8-8.8
BSSB07	04	"	1130	SS	14.5-15.6
BSSB02	01	"	1310	SS	0-.5'
BSSB02	02	"	1320	SS	.5-1.5
BSSB02	03	"	1330	SS	8-9.5
BSSB02	04	"	1350	SS	13-14.5
BSSB06	01	"	1640	SS	0-.5
BSSB06	02	"	1700	SS	0-.5
BSSB06	03	"	1650	SS	.5-3
BSSB06	04	"	1710	SS	.5-3

NOTE: BSSB06-02 & BSSB06-04 ARE DUPLICATES

Brulla 02 JUN 92

HNu & Explosimeter Log

Pg 18

Boring	Depth	Sample Type	HNu (ppm)	Explosimeter O2 / LEL
BSSB10	0-.5'	SS	0	21.1/0
"	.5-3'	SS	0	21.1/0
"	4-5'	SS	0	21.1/0
"	8-10	SS	0	21.1/0
BSSB07	0-.5	SS	5 AM of June 92	21.0/0
BSSB07	.5-2.5	SS	2	21.0/0
BSSB07	8-8.5	SS	2	21.0/0
BSSB07	14.5-15.6	SS	2	21.1/0
BSSB02	0-.5	SS	0	21.1/0
BSSB02	.5-1.5	SS	0	21.1/0
BSSB02	8-9.5	SS	0	21.1/0
BSSB02	13-14.5	SS	0	21.1/0
BSSB06	0-.5	SS	0	21.1/0
BSSB06	.5-3.0	SS	0	21.1/0

B Miller 02 JUN 92

Photo Log

Pg 19

Photo #	Sample #	Date
8	BSSB10-01	02 JUN 92
9	BSSB10-02	02 JUN 92
10	BSSB10-03	02 JUN 92
11	BSSB10 04	02 JUN 92
12	BSSB07-01	02 JUN 92
13	BSSB07-02	02 JUN 92
14	BSSB07-03	02 JUN 92
15	BSSB07-04	02 JUN 92
16	BSSB02-01	02 JUN 92
17	BSSB02-03	02 JUN 92
18	BSSB02-04	02 JUN 92
19	BSSB06-01	02 JUN 92
20	BSSB06-03	02 JUN 92
21	BSSB06-03	02 JUN 92

NOTE: Photo # 21 was taken because "down" is in wrong direction on photo # 20

B Miller 02 JUN 92

Pg 20

Pg 21

Pg 22

WED 03 JUN 92

WEATHER: P.C., 50+

ONSITE PERSONNEL:

ROB CROTTY / CH2M HILL

BOBT MILLER / CH2M HILL

TIM TESTER / TESTER

Darrin Bertini / Tester

FIELD EQUIPMENT	SERIAL NO.	CALIBRATED
H NU	HAZCO 951005	0.2 & 100 ppm ISOB
Explosimeter	HAZCO 2230	ALARM @ 10 % OF METHANE

0700 lv office

0800 Safety meeting (seperate document)

0815 talked to Sgt CLERY SLC OC if boring location was okay. Cler said no problem

1020 finish B55B13

1035 call P Tester for lunch

1100 talked to Capt Ramsath about B55B14 Cpt hrs okay to drill there tomorrow

BMiller 03 JUN 92

Pg 23

Pg 21

Pg 25

1300 Lowboy on base to pick up drill rig

1340 Workwell walked out of track. Rig down.

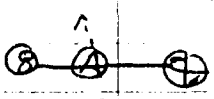
1400 Δ out truck

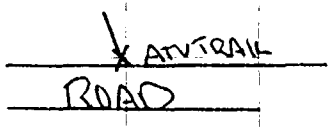
1645 begun locating Lowney

End of day Cab of Instruments

HNu — 62 @ 100 ppm Isob.
Explosimeter - read 10 when alarm sounded on LEL with Hexane

STA NO.	DISTANCE	TO	at	BEARING:
(1)	200.7'	(2)		N80°W
(2)	166.0	(3)		S60°W
(3)	583	(4)		S15°W
(4)	201.0	(5)		N76°W
(5)	201.0	(6)		N70°W
(6)	201.0	(7)		N55°W
(7)	174.0	(8)		N45°W
(9)	49.0	BSSB07		N50°E
(8)	20.0	(A)		N50°E
(A)	148.0	(B)		N58°W
(B)	29.5	BSSB02		S25°W





B Miller 03 JUN 92

B Miller 03 JUN 92

DRILLING DIARY

BORING	MAST ↑	MAST ↓	Date	BOH
BSSB13	0815	1000	03 JUN 92	9.0

SAMPLE LOG

BORING	SAMPLE NUMBER	DATE	TIME	TYPE	DEPTH
BSSB13	01	03 JUN 92	0830	SS	0-.5
BSSB13	02	"	0840	SS	.5-2.5
BSSB13	03	03 JUN 92	0930	SS	3.0-4.5
BSSB13	04	"	0940	SS	3.0-4.5
BSSB13	05	"	0935	SS	4.5-5.5
BSSB13	06	"	0945	SS	4.5-5.5
~~BSRB~~	~~01~~ BM	03 June 92			

NOTE: BSSB13-04 is duplicate of BSSB13-03
BSSB13-06 is dup. of BSSB13-05

B Miller 03 JUN 92

B Miller 03 JUN 92

Pg 28

HNu and Explosimeter

Boring	Depth	Sample Type	HNu (ppm)	Explosimeter O_2	Explosimeter LEL
BSSB13	0-.5	SS	0	21.1	0
"	.5-2.5	"	0	21.1	0
BSSB13	3.0-4.5	"	0	21.1	0
"	4.5-5.5	"	0	21.1	0

B Wilks 03 JUN 92

Pg 29

PHOTO LOG

Photo #	Sample #	Date
22	BSSB13-01	03 JUN 92
23	BSSB13-02	03 JUN 92
OUT OF FILM, NO PICTURES OF BSSB13-03 & BSSB13-05		

CHANGED FILM - PHOTOS 1 & 2 OF DRILL RIG ~~SE~~ IN TRANSIT TO NEXT SITE. 03 JUN 92

B Wilks 03 JUN 92

Pg 30

Pg 31

Pg 32

Pg 33

THURS 04 JUN 92
WEATHER: CLOUDY, 50°

ONSITE PERSONNEL:
B. MILLER / CH2M Hill
R. CROSTY / CH2M Hill
T. TESTOR / TESTOR

Field Equipment	Serial #	Calibrated
HNu	Hazco SS1005	6.2 @ 100 ppm Isob.
Explosimeter	Hazco 2230	Oxygen = ~~0~~ 20.8 LEL = 0.00 Alarm @ 10 w/horn
Explosimeter	Hazco 223?	O2 read 19.5, 10 for LEL. with 50% Pentane

0700 hr off site after calibrating HNu
0745 at BSSB07.. begin drilling
0900 met with SGT SEVAST (EAFB communicator) told where BSSB04 & 12 will be and no conflict as long as we are >1000 ft from intersection
Rel Kelly 04/04/92

1130 Load up auger & steam clean at Decon site

1320 back on site, setup on BSSB04

1830 NOTE: Drilling BSSB04/E12E09 were frustrating because never seen w/in H2O due to permeable nature of material

- Cut off 09 @ 39 Ft
- Cut off 04 @ 36 Ft
- Cut off 12 @ 35 ft

... due to drilling was destroying tools and samples were moist yet verging on wet.

Bob Lutz 06/04/92

1857 Drilling done for day with BSSB-08 @ ~ 20 Ft.

1920 Leave for office

arrive office and calibrate instruments

2030 end of shift

End of Day Calibration

HNu	Hazco 55105	62	@ 100 ppm Isobutylene
Explosimeter	Hazco 2230	O_2 = 19.5, 10 for LEL w/ 50% Pentane	

Bob Lutz 06/04/92

DRILLING DIARY

BORING	MAST ↑	MAST ↓	DATE	BOH
BSSB09	~~0845~~ 0745	0900	04 JUN 92	~~21.0'~~ 39.0'
BSSB04	1315	1500	"	30.5
BSSB12	1515	1625	"	26
BSSB08	1740	0850	05 JUN 92	35

NOTE: MAST ↑ ON 04 JUN 92
MAST ↓ ON 05 JUN 92

BSmith 04 JUN 92

SAMPLE LOG

BORING	SAMPLE #	DATE	TIME	TYPE	DEPTH
BSSB09	01	04 JUN 92	0800	SS	0-.5
"	02	"	0810	"	0-.5
BSSB09	03	"	0815	SS	.5-3
"	04	"	0830	SS	4-5.5
"	05	"	0845	"	14-14.7
BSSB04	01	"	1330	"	0-.5
"	02	"	1345	"	0-.5
"	03	"	1400	"	.5-3
"	04	"	1410	"	9-10.5
BSRB	01	"	1430	Grab/RNS	N.A.
BSSB12	01	"	1520	SS	0-.5
"	02	"	1540	SS	.5-3
"	03	"	1545	SS	.5-3
"	04	"	1600	SS	14-15
"	05	"	1610	SS	14-15
BSSB08	01	"	1750	SS	0-.5
	02	"	1800	SS	.5-2
	03	"	1810	SS	.5-2

NOTE: BSSB09-02 IS DUPLICATE OF BSSB09-01
BSSB04-02 " " " BSSB04-01
BSSB12-03 " " " BSSB12-02
BSSB12-05 " " " BSSB12-04
BSSB08-03 " " " BSSB08-02

SAMPLE LOG CONTINUES ON Pg 40
BSmith 04 JUN 92

HNu & Explosimeter

Boring	Depth	Sample Type	HNu (ppm)	Explosimeter O2	Explosimeter LEL
BSSB09	0-.5	SS	0	20.9	0
BSSB09	.5-3	SS	0	20.9	0
"	4-5.5	SS	0	20.9	0
"	14-14.7	"	0	20.9	0
BSSB04	0-.5	"	0	20.9	0
"	.5-3	"	0	20.8	0
"	9-10.5	"	0	20.9	0
BSSB12	0-.5	"	0	21.1	0
"	.5-3	"	0	21.0	0
BSSB12	14-15	"	0	21.0	0
BSSB08	0-.5	"	0	21.0	0
BSSB08	.5-2	"	0	21.0	0
BSSB08	9.5-10.5	"	0	21.0	0

B Miller 04 Jun 92

Photo Log

Photo #	Sample #	Date
3	BSSB09-01	04 Jun 92
4	BSSB09-03	"
5	BSSB09-04	"
6	BSSB09-05	"
7	~~BS~~ Picture of Grnd Taken Accidently	
8	BSSB04-01	04 Jun 92
9	BSSB04-03	"
10	BSSB04-04	"
11	BSSB12-01	"
12	BSSB12-02	"
13	BSSB12-04	"
14	BSSB08-01	
15	BSSB08-02	

B Miller 04 Jun 92

Pg 40

SAMPLE LOG

BORING	SAMPLE #	DATE	TIME	TYPE	DEPTH
BSSB08	04	04 JUN 92	1830	SS	9.5-10.5

04 JUN 92

Pg 41

Fri - 05 June 92
Cloudy, ~ 50°F

ON SITE:
BURT MILLER / CH2M HILL
ROB CROTTY / CH2M HILL
TIM TESTER / TESTER
BRUCE MARDEN / TESTER

Field Equip Calibration notes in SB Book 2 of 2 on pg 3.

0700 at office calibrate equip.
0730 at BSSB08, resume drilling (after safety meeting)

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Available in a variety of standard and custom printed case-bound field books, loose leaf, spiral and stapled notebooks, multi-copy sets and computer papers.

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J. L. DARLING CORPORATION
TACOMA, WA 98421-3696 USA

"Rite in the Rain"®

ALL-WEATHER

LEVEL

Notebook No. 311

ELMENDORF AFB IRP
PROJECT LOG BOOK
ANC 31026.FZ.40
BACKGROUND
OB

BOOK 2 OF 3

Pg 2

Pg 3

FRI - 05 JUN 92
WEATHER - CLOUDY, 50°

ON-SITE PERSONNEL:
BURT MILLER / CH2M HILL
ROB CROTTY / CH2M HILL
TIM TESTER / TESTER
BRUCE MARDEN / TESTER

FIELD EQUIP	SERIAL #	CALIBRATED
HNU	HAZCO SS1005 ~~22 0m~~	64@ 100 ppm Iso.
EXPLOSIMETER	HAZCO 2230	O_2 = 19.5 LEL = 10

Pentane from CHem Hill
Lot # 32520 Hazco with 50% Pentane (alarm sounds)
Isobutylene from Hazco
Lot # 050492-12

1030 Walt Lofton .. Tester Training
Standing by

1130 Move to BSSB14

BMiller 05 JUN 92

DRILLING SUMMARY

BORING	NORTH	EAST	DATE	BOH
BSSB 14	1115	1245	05 JUN 92	35

B Miller 05 JUN 92

P4

SAMPLE LOG

BORING	SAMPLE #	DATE	TIME	TYPE	DEPTH
BSSB 14	01	05 JUN 92	1130	SS	0-.5
"	02	"	1150	"	.5-3
"	03	"	1200	"	8-8.4
"	04	"	1230	"	24-25

B Miller 05 JUN 92

HNu & EXPLOSIMETER LOG

BORING	DEPTH	SAMPLE TYPE	HNu (PPM)	EXPLOSIMETER O_2	EXPLOSIMETER LEL
BSSB14	0-.5	SS	0	21.0	00
"	.5-3	"	0	21.0	0
"	8-8.4	"	0	21.0	0
"	24-25	"	0	21.1	0

End of Day Calibration:

HNu Hazco SS1005 64@100 ppm Isobutylene

Explosimeter Hazco 2230 O_2 = 19.5, LEL = 10 when alarm sounds w/ Pentane

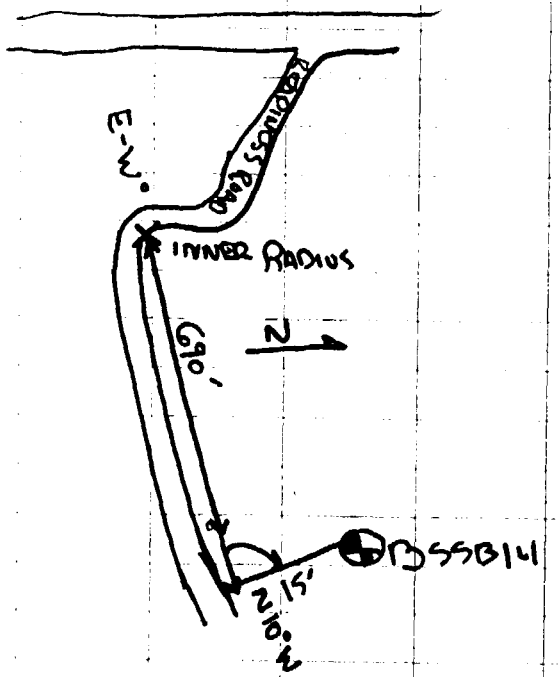
B Miller 05 JUN 92

PHOTO LOG

PHOTO #	SAMPLE #	DATE
16	BSSB14-01	05 JUN 92
17	BSSB14-02	"
18	" -03	"
19	" -04	"

B Miller 05 JUN 92

1230 BSSB14 location



05 June 92

Weather: SUN, 60° F

Casing Personnel:
Team Leader / Chain Hill
Rear Safety / Chain Hill
Tail Tender / Tender
Flag Marker / Tender

Field Equipment	Serial #	Calibrated
HNu	Hazco 5016	60 @ 100 ppm Isobutylene
Explosimeter	Mine 2230	O2 - 19.5 LEL - 10 w/ 50% Pentane Calibration Standard

Bill Miller 05 JUN 92

Pg 10

BSSB03	0840	0950	08JUN92	20.5
BSSB01	1015	1100	"	11.0

CE Jun 92

Pg 11

BSSB03	01	08JUN92	0855	SS	0-.5
"	02	"	0905	"	.5-3
"	03	"	0910	"	4-6
"	04	"	0915	"	4-6
"	05	"	0940	"	19-20.5
BSSB01	01	"	1025	"	0-.5
"	02	"	1040	"	.5-3
"	03	"	1045	"	9-10.5
"	04	"	1050	"	9-10.5

NOTE: BSSB03-04 IS DUPLICATE OF BSSB03-03
BSSB01-04 " " " BSSB01-03

CE Jun 92

BSSB03	0-.5	SS	0	20.9	0
"	.5-3	"	0	20.9	0
"	4-6	"	0	20.9	0
"	19-20.5	"	0	20.9	0
BSSB01	0-.5	"	0	21.0	0
"	.5-3	"	0	20.9	0
"	9-10.5	"	0	21.0	0

20	NODWELL IN TRANSIT TO BSSB03	
21	NODWELL " " " "	
22	BSSB03-01	08 JUN 92
OUT OF FILM		

End of Day Calibration

HNu Hazco SS1005 — 60 @ 100 ppm Isob.

Explosimeter Hazco 2230 — O_2 = 19.5, LEL = 10 w/ 50% Pentane – Alarm sounds

B Miller 08 JUN 92

B Miller 08 JUN 92

B Miller 08 JUN 92

"Rite in the Rain"®

ALL-WEATHER

LEVEL

Notebook No. 311

ELMENDORF AFB IRP
PROJECT LOGBOOK
AVC 31026.F2.40
BACKGROUND
3B

BOOK 3 OF 3

"Rite in the Rain" - A unique All-Weather Writing Paper created to shed water and enhance the written image. It is widely used throughout the world for recording critical field data in all kinds of weather.

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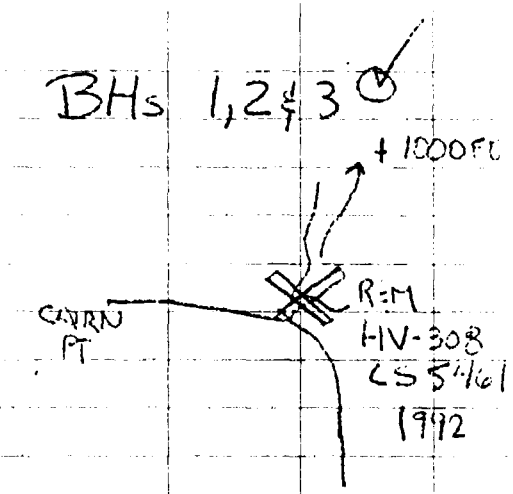
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TACOMA, WA 98421-3696 USA

Alan Richmond 552 2282
Shaun

Pg 1

BHs 1, 2 & 3



Potential Burn
RL 06/11/92

RL 06/11/92

05/21/92

Pg2

1040 met w/ Alan Richmond.
Discussed bouy location.
AR gave okay for access.
AR also said:

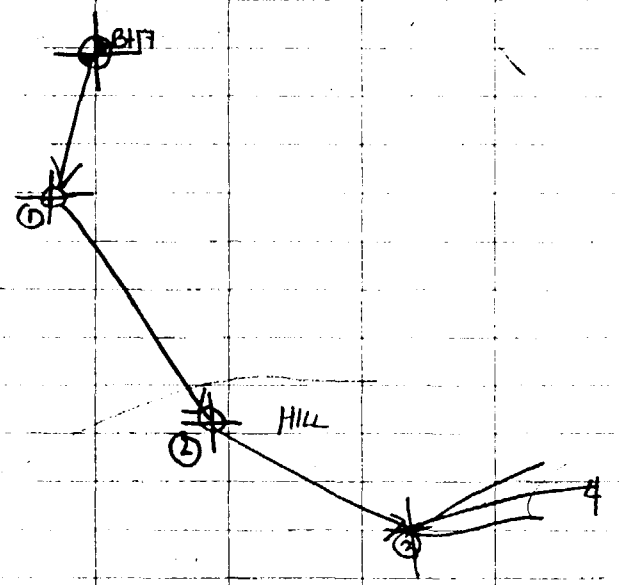
- keep cutting of trees to minimum (less < 4" ϕ)
- slaughter as much alder & brush as possible
- doesn't need to be along for RECONN

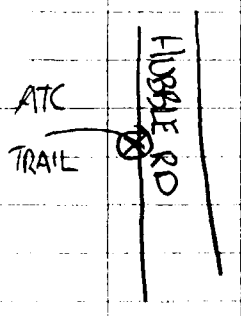
1430 BH#7

STA	BRNG	DIST	NOTES
⊕B7	S10°W	135'	Bible
①	S45E	240' ✓	ATC TRAIL
②	S60W	305' ✓	HILL
③	S80W	213' ✓	
④	N30E	210' ✓	
⑤	S85E	270' ✓	

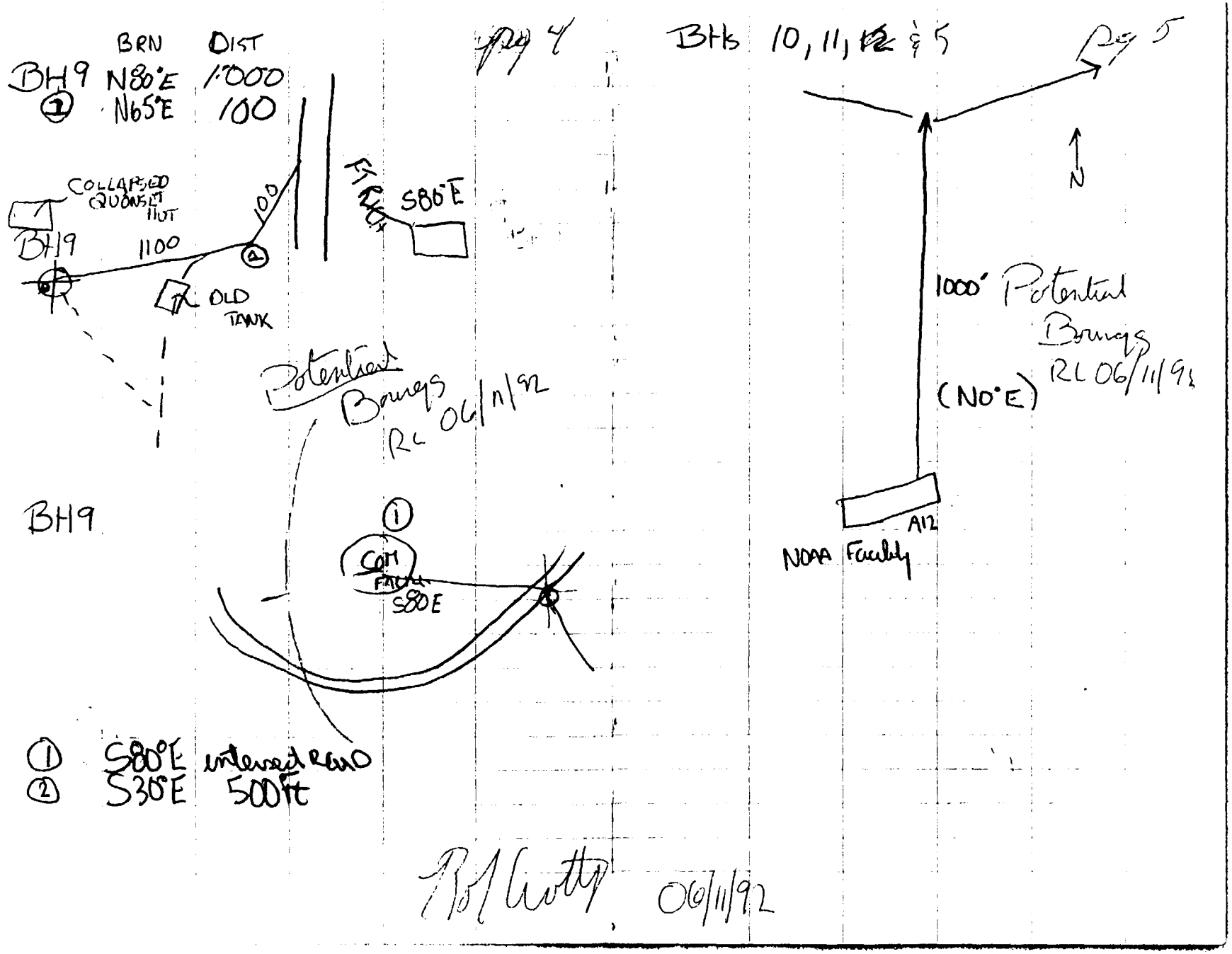
Pg3

Potential Buoy 12c/06/11/92





Bill Lutz 06/11/92


BRN DIST
BH9 N80°E 1000
② N65°E 100
COLLAPSED QUONSET HUT
BH9
1100
100
FENCE
S80°E
OLD TANK
Potential Bearings RL 06/11/92
BH9
①
COM FACIL
S80E
① S80°E intersect road
② S30°E 500ft
Pg 4
BHs 10, 11, 12 & 5
Pg 5
N
1000' Potential Bearings RL 06/11/92
(NO°E)
A12
NOAA Facility
Rob Curtis 06/11/92

pg 6

SGT SPIES (GIANT TALK)
SGT CAGE
SGT CLAIR (at SLCC)

RL 06/11/92

pg 7

06/11/92
Weather: Sunny, 70°F
Team Members:
BMiller/8CA
RCrotty/ANL

0900 Began review of maps. Noticed error in one map
1005 Began mob.
1100 Ente E Boundary, began locating remaining bounds

Bearing BSSB01 & BSSB03

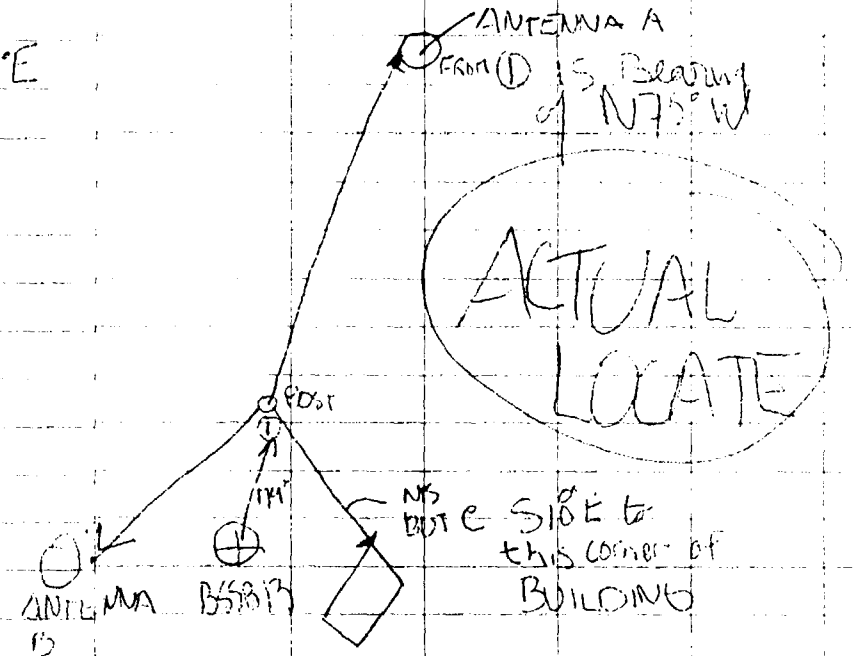
STA	Distance to	STA at	BEARING
(1)	60	(2)	N90°E
(2)	63	(3)	N33°E
(3)	105	(4)	N33°E
(4)	67	Top of Slope BSSB01	N50°E
BSSB0	199	(5)	N55°E
(5)	121	(6)	N85°E
		Base of Slope BSSB03	
(6)	111		N66°E

Bearing BSSB13

STA	DISTANCE (ft) TO	STA	& Bearing of
BSSB13	179	(1)	N2°E
(1)	NTS	SLCC BLDG	S18°E
(1)	NTS	ANTENNA A	N75°W
(1)	NTS	ANTENNA B	S7°W

ACTUAL LOCATE

(1) X ~ BM



Pg 10

BSSBOC

STA	DISTANCE TO	STA	@ BEARING TO
①	~~150~~ 180	②	S2°E
②	192	③	S30°W
③	100	BSSBOC	525°W

ACTUAL LOCATE

BID 5L.1K0 ①

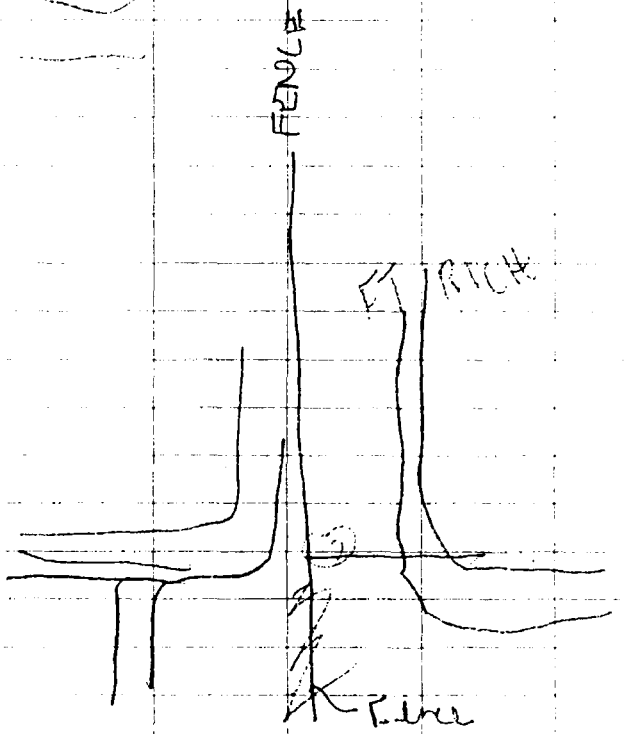
Ready 06/11/12

Pg 11

BSSBO8

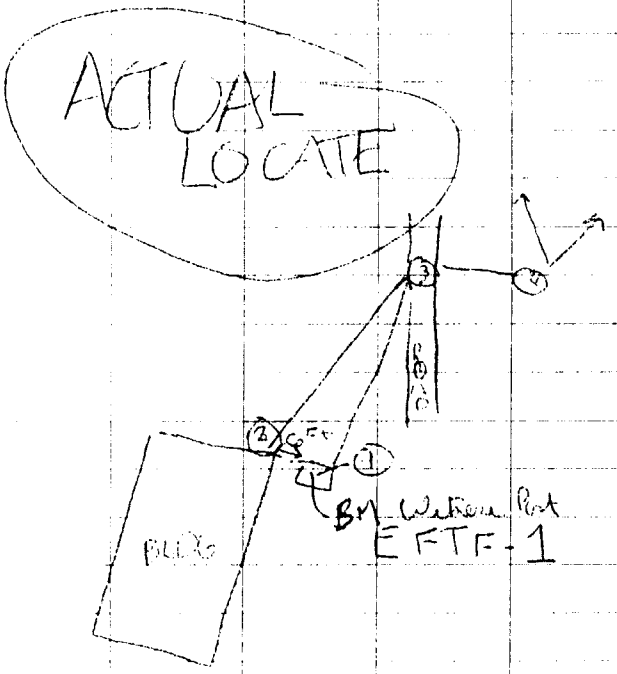
STA	DISTANCE TO	STA	@ BEARING TO
BSSBO8	DC.	①	N20°E
①	200	②	S60°E
②	1154	③	S2°E

③ Face corner



BSSB04 & BSSB12

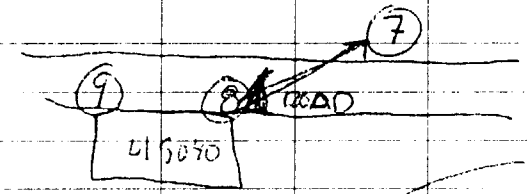
STA	DISTANCE TO	STA @	Bearing of
(1)	NTS	(3)	S52°E
(2)	NTS	(5)	S65°E
(3)	97	(4)	S15°W
MAN MADE EDGE			
(4)	30	BSSB12	S75°E
(4)	40	BSSB04	S40°E

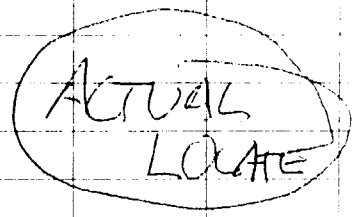


R Cutter 06/14/92

BSSB09

STA	DIST (FT)	STA	BRNG
BSSB09	106	(1)	N75°E(?)
(1)	400	(2)	N88E
(2)	400	(3)	N75E
(3)	400	(4)	E-W
(4)	200	(5)	N85°E
(5)	200	(6)	N70°E
(6)	120	(7)	S86°E
		EDGE of RD	
(7)	NTS	(8)	S74°E
(7)	NTS	(9)	S60°E





R Cutter 06/14/92

1730 EOS

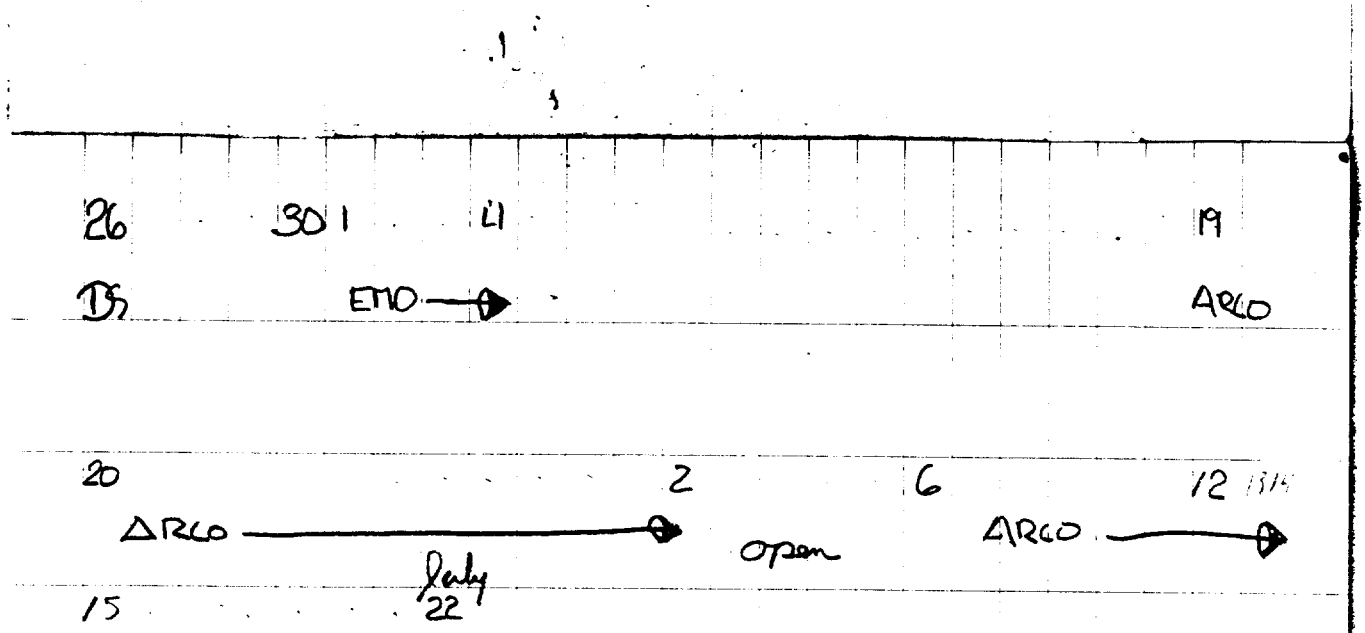
Pg 14

06/12/12

Weather: 70F Sunny
TEAM: B Trubble
R Lutty

1330 hr office to locale
BSS 308

R Lutty
CPO PZL


26
30
1
11
19
DS
ETO
ARCO
20
2
6
12
ARCO
ARCO
open
July
22
15

APPENDIX K
BACKGROUND SOIL SAMPLING LAB RESULTS

Appendix K

Background Soil Sampling Laboratory Results

EPA Qualifiers

Metals

C (CONCENTRATION) QUALIFIER:

"B" - The reported value obtained was less than the CRDL, but greater than or equal to the IDL.
"<" - The value was less than the IDL or was not detected.

Q QUALIFIER:

"E" - The reported value is estimated because of interference.
"M" - Duplicate injection precision was not met (two analyses of the sample did not agree).
"N" - Spiked sample recovery not within control limits.
"S" - The reported value was determined by the Method of Standard Additions (MSA).
"W" - Post digestion spike for Graphite Furnace AA analysis is out of control limits (85%-115%), while sample absorbance is less than 50% of spike absorbance.
"*" - Duplicate analysis not within control limits.
"+" - Correlation coefficient for the MSA is less than 0.995.

M (METHOD) QUALIFIER:

"P" - ICP
"A" - FLAME AA
"F" - FURNACE AA
"CV"- MANUAL COLD VAPOR
"AV"- AUTOMATED COLD VAPOR
"NR"- ANALYTE WAS NOT REQUIRED
"C" - MANUAL SPECTROPHOTOMETRIC

APPENDIX J - Soil Metals Analysis Raw Data											
			Collection	Analysis			Qualifier				
Lab ID	Boring	Matrix	Date	Date	Parameter	Result		Limit	Units	CAS #	Method
33092001	BSSB11-01	SOIL	06/01/92	06/30/92	Silver	0.56	B	1.4	mg/kg	7440-22-4	EPA200.7/SW6010
33092001	BSSB11-01	SOIL	06/01/92	06/30/92	Aluminum	14100		7.6	mg/kg	7429-90-5	EPA200.7/SW6010
33092001	BSSB11-01	SOIL	06/01/92	07/02/92	Arsenic	4.8		0.7	mg/kg	7440-38-2	EPA206.2/SW7060
33092001	BSSB11-01	SOIL	06/01/92	06/30/92	Barium	90.9		0.3	mg/kg	7440-39-3	EPA200.7/SW6010
33092001	BSSB11-01	SOIL	06/01/92	06/30/92	Beryllium	0.38	B	0.8	mg/kg	7440-41-7	EPA200.7/SW6010
33092001	BSSB11-01	SOIL	06/01/92	06/30/92	Calcium	1650	E	39.5	mg/kg	7440-70-2	EPA200.7/SW6010
33092001	BSSB11-01	SOIL	06/01/92	06/30/92	Cadmium	0.78	B	1.0	mg/kg	7440-43-9	EPA200.7/SW6010
33092001	BSSB11-01	SOIL	06/01/92	06/30/92	Cobalt	3.4	B	7.8	mg/kg	7440-48-4	EPA200.7/SW6010
33092001	BSSB11-01	SOIL	06/01/92	06/30/92	Chromium	13.8		3.3	mg/kg	7440-47-3	EPA200.7/SW6010
33092001	BSSB11-01	SOIL	06/01/92	06/30/92	Copper	10.5		1.1	mg/kg	7440-50-8	EPA200.7/SW6010
33092001	BSSB11-01	SOIL	06/01/92	06/30/92	Iron	17100	*	8.3	mg/kg	7439-89-6	EPA200.7/SW6010
33092001	BSSB11-01	SOIL	06/01/92	06/18/92	Mercury	0.14		0.1	mg/kg	7439-97-6	SW7471
33092001	BSSB11-01	SOIL	06/01/92	06/30/92	Potassium	350	B	148.0	mg/kg	7440-09-7	EPA200.7/SW6010
33092001	BSSB11-01	SOIL	06/01/92	06/30/92	Magnesium	897	B	11.4	mg/kg	7439-95-4	EPA200.7/SW6010
33092001	BSSB11-01	SOIL	06/01/92	06/30/92	Manganese	123	*	0.8	mg/kg	7439-96-5	EPA200.7/SW6010
33092001	BSSB11-01	SOIL	06/01/92	06/30/92	Sodium	369	B	18.6	mg/kg	7440-23-5	EPA200.7/SW6010
33092001	BSSB11-01	SOIL	06/01/92	06/30/92	Nickel	5.4	B	7.8	mg/kg	7440-02-0	EPA200.7/SW6010
33092001	BSSB11-01	SOIL	06/01/92	07/01/92	Lead	7.3		0.6	mg/kg	7439-92-1	EPA239.2/SW7421
33092001	BSSB11-01	SOIL	06/01/92	06/30/92	Antimony	3.5	< N	11.0	mg/kg	7440-36-0	EPA200.7/SW6010
33092001	BSSB11-01	SOIL	06/01/92	07/06/92	Selenium	0.38	B	0.4	mg/kg	7782-49-2	EPA270.2/SW7740
33092001	BSSB11-01	SOIL	06/01/92	07/01/92	Thallium	0.25	< W	0.8	mg/kg	7440-28-0	EPA279.2/SW7841
33092001	BSSB11-01	SOIL	06/01/92	06/30/92	Vanadium	47.2		1.3	mg/kg	7440-62-2	EPA200.7/SW6010
33092001	BSSB11-01	SOIL	06/01/92	06/30/92	Zinc	19.2		1.6	mg/kg	7440-66-6	EPA200.7/SW6010
33092002	BSSB11-02	SOIL	06/01/92	06/30/92	Silver	0.39	<	1.4	mg/kg	7440-22-4	EPA200.7/SW6010
33092002	BSSB11-02	SOIL	06/01/92	06/30/92	Aluminum	21900		7.6	mg/kg	7429-90-5	EPA200.7/SW6010
33092002	BSSB11-02	SOIL	06/01/92	07/02/92	Arsenic	7.5		0.7	mg/kg	7440-38-2	EPA206.2/SW7060
33092002	BSSB11-02	SOIL	06/01/92	06/30/92	Barium	127		0.3	mg/kg	7440-39-3	EPA200.7/SW6010
33092002	BSSB11-02	SOIL	06/01/92	06/30/92	Beryllium	0.55	B	0.8	mg/kg	7440-41-7	EPA200.7/SW6010
33092002	BSSB11-02	SOIL	06/01/92	06/30/92	Calcium	1750	E	39.5	mg/kg	7440-70-2	EPA200.7/SW6010
33092002	BSSB11-02	SOIL	06/01/92	06/30/92	Cadmium	1.6		1.0	mg/kg	7440-43-9	EPA200.7/SW6010
33092002	BSSB11-02	SOIL	06/01/92	06/30/92	Cobalt	13.6	B	7.8	mg/kg	7440-48-4	EPA200.7/SW6010
33092002	BSSB11-02	SOIL	06/01/92	06/30/92	Chromium	29.1		3.3	mg/kg	7440-47-3	EPA200.7/SW6010
33092002	BSSB11-02	SOIL	06/01/92	06/30/92	Copper	21.6		1.1	mg/kg	7440-50-8	EPA200.7/SW6010
33092002	BSSB11-02	SOIL	06/01/92	06/30/92	Iron	28900	*	8.3	mg/kg	7439-89-6	EPA200.7/SW6010
33092002	BSSB11-02	SOIL	06/01/92	06/18/92	Mercury	0.07	B	0.1	mg/kg	7439-97-6	SW7471
33092002	BSSB11-02	SOIL	06/01/92	06/30/92	Potassium	433	B	148.0	mg/kg	7440-09-7	EPA200.7/SW6010
33092002	BSSB11-02	SOIL	06/01/92	06/30/92	Magnesium	4950		11.4	mg/kg	7439-95-4	EPA200.7/SW6010
33092002	BSSB11-02	SOIL	06/01/92	06/30/92	Manganese	491	*	0.8	mg/kg	7439-96-5	EPA200.7/SW6010
33092002	BSSB11-02	SOIL	06/01/92	06/30/92	Sodium	276	B	18.6	mg/kg	7440-23-5	EPA200.7/SW6010
33092002	BSSB11-02	SOIL	06/01/92	06/30/92	Nickel	23.1		7.8	mg/kg	7440-02-0	EPA200.7/SW6010

33092002	BSSB11-02	SOIL	06/01/92	07/01/92	Lead	7.0		0.6	mg/kg	7439-92-1	EPA239.2/SW7421
33092002	BSSB11-02	SOIL	06/01/92	06/30/92	Antimony	3.1	< N	11.0	mg/kg	7440-36-0	EPA200.7/SW6010
33092002	BSSB11-02	SOIL	06/01/92	07/05/92	Selenium	0.28	B	0.4	mg/kg	7782-49-2	EPA270.2/SW7740
33092002	BSSB11-02	SOIL	06/01/92	07/01/92	Thallium	0.23	<	0.8	mg/kg	7440-28-0	EPA279.2/SW7841
33092002	BSSB11-02	SOIL	06/01/92	06/30/92	Vanadium	62.4		1.3	mg/kg	7440-62-2	EPA200.7/SW6010
33092002	BSSB11-02	SOIL	06/01/92	06/30/92	Zinc	58.2		1.6	mg/kg	7440-66-6	EPA200.7/SW6010
33092003	BSSB11-03	SOIL	06/01/92	06/30/92	Silver	0.49	B	1.4	mg/kg	7440-22-4	EPA200.7/SW6010
33092003	BSSB11-03	SOIL	06/01/92	06/30/92	Aluminum	13400		7.6	mg/kg	7429-90-5	EPA200.7/SW6010
33092003	BSSB11-03	SOIL	06/01/92	07/02/92	Arsenic	4.8		0.7	mg/kg	7440-38-2	EPA206.2/SW7060
33092003	BSSB11-03	SOIL	06/01/92	06/30/92	Barium	40.5	B	0.3	mg/kg	7440-39-3	EPA200.7/SW6010
33092003	BSSB11-03	SOIL	06/01/92	06/30/92	Beryllium	0.36	B	0.8	mg/kg	7440-41-7	EPA200.7/SW6010
33092003	BSSB11-03	SOIL	06/01/92	06/30/92	Calcium	4600	E	39.5	mg/kg	7440-70-2	EPA200.7/SW6010
33092003	BSSB11-03	SOIL	06/01/92	06/30/92	Cadmium	1.4		1.0	mg/kg	7440-43-9	EPA200.7/SW6010
33092003	BSSB11-03	SOIL	06/01/92	06/30/92	Cobalt	11.6		7.8	mg/kg	7440-48-4	EPA200.7/SW6010
33092003	BSSB11-03	SOIL	06/01/92	06/30/92	Chromium	27.1		3.3	mg/kg	7440-47-3	EPA200.7/SW6010
33092003	BSSB11-03	SOIL	06/01/92	06/30/92	Copper	33.2		1.1	mg/kg	7440-50-8	EPA200.7/SW6010
33092003	BSSB11-03	SOIL	06/01/92	06/30/92	Iron	25400	*	8.3	mg/kg	7439-89-6	EPA200.7/SW6010
33092003	BSSB11-03	SOIL	06/01/92	06/18/92	Mercury	0.06		0.1	mg/kg	7439-97-6	SW7471
33092003	BSSB11-03	SOIL	06/01/92	06/30/92	Potassium	756	B	148.0	mg/kg	7440-09-7	EPA200.7/SW6010
33092003	BSSB11-03	SOIL	06/01/92	06/30/92	Magnesium	7780		11.4	mg/kg	7439-95-4	EPA200.7/SW6010
33092003	BSSB11-03	SOIL	06/01/92	06/30/92	Manganese	520	*	0.8	mg/kg	7439-96-5	EPA200.7/SW6010
33092003	BSSB11-03	SOIL	06/01/92	06/30/92	Sodium	224	B	18.6	mg/kg	7440-23-5	EPA200.7/SW6010
33092003	BSSB11-03	SOIL	06/01/92	06/30/92	Nickel	28.6		7.8	mg/kg	7440-02-0	EPA200.7/SW6010
33092003	BSSB11-03	SOIL	06/01/92	07/01/92	Lead	6.3		0.6	mg/kg	7439-92-1	EPA239.2/SW7421
33092003	BSSB11-03	SOIL	06/01/92	06/30/92	Antimony	2.4	< N	11.0	mg/kg	7440-36-0	EPA200.7/SW6010
33092003	BSSB11-03	SOIL	06/01/92	07/05/92	Selenium	0.09	<	0.4	mg/kg	7782-49-2	EPA270.2/SW7740
33092003	BSSB11-03	SOIL	06/01/92	07/01/92	Thallium	0.19	B	0.8	mg/kg	7440-28-0	EPA279.2/SW7841
33092003	BSSB11-03	SOIL	06/01/92	06/30/92	Vanadium	45.5		1.3	mg/kg	7440-62-2	EPA200.7/SW6010
33092003	BSSB11-03	SOIL	06/01/92	06/30/92	Zinc	55.4		1.6	mg/kg	7440-66-6	EPA200.7/SW6010
33092004	BSSB05-01	SOIL	06/01/92	06/30/92	Silver	0.97	B	1.4	mg/kg	7440-22-4	EPA200.7/SW6010
33092004	BSSB05-01	SOIL	06/01/92	06/30/92	Aluminum	21400		7.6	mg/kg	7429-90-5	EPA200.7/SW6010
33092004	BSSB05-01	SOIL	06/01/92	07/02/92	Arsenic	8.1		0.7	mg/kg	7440-38-2	EPA206.2/SW7060
33092004	BSSB05-01	SOIL	06/01/92	06/30/92	Barium	143		0.3	mg/kg	7440-39-3	EPA200.7/SW6010
33092004	BSSB05-01	SOIL	06/01/92	06/30/92	Beryllium	0.49	B	0.8	mg/kg	7440-41-7	EPA200.7/SW6010
33092004	BSSB05-01	SOIL	06/01/92	06/30/92	Calcium	1960	E	39.5	mg/kg	7440-70-2	EPA200.7/SW6010
33092004	BSSB05-01	SOIL	06/01/92	06/30/92	Cadmium	1.3	B	1.0	mg/kg	7440-43-9	EPA200.7/SW6010
33092004	BSSB05-01	SOIL	06/01/92	06/30/92	Cobalt	9.0	B	37.8	mg/kg	7440-48-4	EPA200.7/SW6010
33092004	BSSB05-01	SOIL	06/01/92	06/30/92	Chromium	23.7		3.3	mg/kg	7440-47-3	EPA200.7/SW6010
33092004	BSSB05-01	SOIL	06/01/92	06/30/92	Copper	17.4		1.1	mg/kg	7440-50-8	EPA200.7/SW6010
33092004	BSSB05-01	SOIL	06/01/92	06/30/92	Iron	25800	*	8.3	mg/kg	7439-89-6	EPA200.7/SW6010
33092004	BSSB05-01	SOIL	06/01/92	06/18/92	Mercury	0.06	B	0.1	mg/kg	7439-97-6	SW7471
33092004	BSSB05-01	SOIL	06/01/92	06/30/92	Potassium	395	B	148.0	mg/kg	7440-09-7	EPA200.7/SW6010
33092004	BSSB05-01	SOIL	06/01/92	06/30/92	Magnesium	2780		11.4	mg/kg	7439-95-4	EPA200.7/SW6010
33092004	BSSB05-01	SOIL	06/01/92	06/30/92	Manganese	438	*	0.8	mg/kg	7439-96-5	EPA200.7/SW6010
33092004	BSSB05-01	SOIL	06/01/92	06/30/92	Sodium	328	B	18.6	mg/kg	7440-23-5	EPA200.7/SW6010

33092004	BSSB05-01	SOIL	06/01/92	06/30/92	Nickel	16.4		7.8	mg/kg	7440-02-0	EPA200.7/SW6010
33092004	BSSB05-01	SOIL	06/01/92	07/01/92	Lead	7.5		0.6	mg/kg	7439-92-1	EPA239.2/SW7421
33092004	BSSB05-01	SOIL	06/01/92	06/30/92	Antimony	3.2	< N	11.0	mg/kg	7440-36-0	EPA200.7/SW6010
33092004	BSSB05-01	SOIL	06/01/92	07/05/92	Selenium	0.51	BW	0.4	mg/kg	7782-49-2	EPA270.2/SW7740
33092004	BSSB05-01	SOIL	06/01/92	07/01/92	Thallium	0.23	<	0.8	mg/kg	7440-28-0	EPA279.2/SW7841
33092004	BSSB05-01	SOIL	06/01/92	06/30/92	Vanadium	60.8		1.3	mg/kg	7440-62-2	EPA200.7/SW6010
33092004	BSSB05-01	SOIL	06/01/92	06/30/92	Zinc	49.7		1.6	mg/kg	7440-66-6	EPA200.7/SW6010
33092005	BSSB05-02	SOIL	06/01/92	06/30/92	Silver	1.2	B	1.4	mg/kg	7440-22-4	EPA200.7/SW6010
33092005	BSSB05-02	SOIL	06/01/92	06/30/92	Aluminum	20500		7.6	mg/kg	7429-90-5	EPA200.7/SW6010
33092005	BSSB05-02	SOIL	06/01/92	07/02/92	Arsenic	6.4		0.7	mg/kg	7440-38-2	EPA206.2/SW7060
33092005	BSSB05-02	SOIL	06/01/92	06/30/92	Barium	131		0.3	mg/kg	7440-39-3	EPA200.7/SW6010
33092005	BSSB05-02	SOIL	06/01/92	06/30/92	Beryllium	0.46	B	0.8	mg/kg	7440-41-7	EPA200.7/SW6010
33092005	BSSB05-02	SOIL	06/01/92	06/30/92	Calcium	2470	E	39.5	mg/kg	7440-70-2	EPA200.7/SW6010
33092005	BSSB05-02	SOIL	06/01/92	06/30/92	Cadmium	1.7		1.0	mg/kg	7440-43-9	EPA200.7/SW6010
33092005	BSSB05-02	SOIL	06/01/92	06/30/92	Cobalt	14.3		7.8	mg/kg	7440-48-4	EPA200.7/SW6010
33092005	BSSB05-02	SOIL	06/01/92	06/30/92	Chromium	33.6		3.3	mg/kg	7440-47-3	EPA200.7/SW6010
33092005	BSSB05-02	SOIL	06/01/92	06/30/92	Copper	25.7		1.1	mg/kg	7440-50-8	EPA200.7/SW6010
33092005	BSSB05-02	SOIL	06/01/92	06/30/92	Iron	30700	*	8.3	mg/kg	7439-89-6	EPA200.7/SW6010
33092005	BSSB05-02	SOIL	06/01/92	06/18/92	Mercury	0.06	B	0.1	mg/kg	7439-97-6	SW7471
33092005	BSSB05-02	SOIL	06/01/92	06/30/92	Potassium	525	B	148.0	mg/kg	7440-09-7	EPA200.7/SW6010
33092005	BSSB05-02	SOIL	06/01/92	06/30/92	Magnesium	5910		11.4	mg/kg	7439-95-4	EPA200.7/SW6010
33092005	BSSB05-02	SOIL	06/01/92	06/30/92	Manganese	564	*	0.8	mg/kg	7439-96-5	EPA200.7/SW6010
33092005	BSSB05-02	SOIL	06/01/92	06/30/92	Sodium	288	B	18.6	mg/kg	7440-23-5	EPA200.7/SW6010
33092005	BSSB05-02	SOIL	06/01/92	06/30/92	Nickel	26.7		7.8	mg/kg	7440-02-0	EPA200.7/SW6010
33092005	BSSB05-02	SOIL	06/01/92	07/01/92	Lead	6.9		0.6	mg/kg	7439-92-1	EPA239.2/SW7421
33092005	BSSB05-02	SOIL	06/01/92	06/30/92	Antimony	3.1	< N	11.0	mg/kg	7440-36-0	EPA200.7/SW6010
33092005	BSSB05-02	SOIL	06/01/92	07/05/92	Selenium	0.18	B	0.4	mg/kg	7782-49-2	EPA270.2/SW7740
33092005	BSSB05-02	SOIL	06/01/92	07/01/92	Thallium	0.22	<	0.8	mg/kg	7440-28-0	EPA279.2/SW7841
33092005	BSSB05-02	SOIL	06/01/92	06/30/92	Vanadium	59.0		1.3	mg/kg	7440-62-2	EPA200.7/SW6010
33092005	BSSB05-02	SOIL	06/01/92	06/30/92	Zinc	62.9		1.6	mg/kg	7440-66-6	EPA200.7/SW6010
33092006	BSSB05-03	SOIL	06/01/92	06/30/92	Silver	0.39	B	1.4	mg/kg	7440-22-4	EPA200.7/SW6010
33092006	BSSB05-03	SOIL	06/01/92	06/30/92	Aluminum	11100		7.6	mg/kg	7429-90-5	EPA200.7/SW6010
33092006	BSSB05-03	SOIL	06/01/92	07/02/92	Arsenic	5.1		0.7	mg/kg	7440-38-2	EPA206.2/SW7060
33092006	BSSB05-03	SOIL	06/01/92	06/30/92	Barium	44.9		0.3	mg/kg	7440-39-3	EPA200.7/SW6010
33092006	BSSB05-03	SOIL	06/01/92	06/30/92	Beryllium	0.38	B	0.8	mg/kg	7440-41-7	EPA200.7/SW6010
33092006	BSSB05-03	SOIL	06/01/92	06/30/92	Calcium	2980	E	39.5	mg/kg	7440-70-2	EPA200.7/SW6010
33092006	BSSB05-03	SOIL	06/01/92	06/30/92	Cadmium	2.6		1.0	mg/kg	7440-43-9	EPA200.7/SW6010
33092006	BSSB05-03	SOIL	06/01/92	06/30/92	Cobalt	9.7	B	7.8	mg/kg	7440-48-4	EPA200.7/SW6010
33092006	BSSB05-03	SOIL	06/01/92	06/30/92	Chromium	24.1		3.3	mg/kg	7440-47-3	EPA200.7/SW6010
33092006	BSSB05-03	SOIL	06/01/92	06/30/92	Copper	21.3		1.1	mg/kg	7440-50-8	EPA200.7/SW6010
33092006	BSSB05-03	SOIL	06/01/92	06/30/92	Iron	21500	*	8.3	mg/kg	7439-89-6	EPA200.7/SW6010
33092006	BSSB05-03	SOIL	06/01/92	06/18/92	Mercury	0.05	B	0.1	mg/kg	7439-97-6	SW7471
33092006	BSSB05-03	SOIL	06/01/92	06/30/92	Potassium	449	B	148.0	mg/kg	7440-09-7	EPA200.7/SW6010
33092006	BSSB05-03	SOIL	06/01/92	06/30/92	Magnesium	7160		11.4	mg/kg	7439-95-4	EPA200.7/SW6010
33092006	BSSB05-03	SOIL	06/01/92	06/30/92	Manganese	456	*	0.8	mg/kg	7439-96-5	EPA200.7/SW6010

33092006	BSSB05-03	SOIL	06/01/92	06/30/92	Sodium	181	B	18.6	mg/kg	7440-23-5	EPA200.7/SW6010
33092006	BSSB05-03	SOIL	06/01/92	06/30/92	Nickel	31.1		7.8	mg/kg	7440-02-0	EPA200.7/SW6010
33092006	BSSB05-03	SOIL	06/01/92	07/01/92	Lead	7.4		0.6	mg/kg	7439-92-1	EPA239.2/SW7421
33092006	BSSB05-03	SOIL	06/01/92	06/30/92	Antimony	3.1	BN	11.0	mg/kg	7440-36-0	EPA200.7/SW6010
33092006	BSSB05-03	SOIL	06/01/92	07/06/92	Selenium	0.25	B	0.4	mg/kg	7782-49-2	EPA270.2/SW7740
33092006	BSSB05-03	SOIL	06/01/92	07/01/92	Thallium	0.17	<	0.8	mg/kg	7440-28-0	EPA279.2/SW7841
33092006	BSSB05-03	SOIL	06/01/92	06/30/92	Vanadium	35.7		1.3	mg/kg	7440-62-2	EPA200.7/SW6010
33092006	BSSB05-03	SOIL	06/01/92	06/30/92	Zinc	50.6		1.6	mg/kg	7440-66-6	EPA200.7/SW6010
33092007	BSSB05-04	SOIL	06/01/92	06/30/92	Silver	0.65	B	1.4	mg/kg	7440-22-4	EPA200.7/SW6010
33092007	BSSB05-04	SOIL	06/01/92	06/30/92	Aluminum	13500		7.6	mg/kg	7429-90-5	EPA200.7/SW6010
33092007	BSSB05-04	SOIL	06/01/92	07/02/92	Arsenic	4.9		0.7	mg/kg	7440-38-2	EPA206.2/SW7060
33092007	BSSB05-04	SOIL	06/01/92	06/30/92	Barium	38.6	B	0.3	mg/kg	7440-39-3	EPA200.7/SW6010
33092007	BSSB05-04	SOIL	06/01/92	06/30/92	Beryllium	0.34	B	0.8	mg/kg	7440-41-7	EPA200.7/SW6010
33092007	BSSB05-04	SOIL	06/01/92	06/30/92	Calcium	5070	E	39.5	mg/kg	7440-70-2	EPA200.7/SW6010
33092007	BSSB05-04	SOIL	06/01/92	06/30/92	Cadmium	1.5		1.0	mg/kg	7440-43-9	EPA200.7/SW6010
33092007	BSSB05-04	SOIL	06/01/92	06/30/92	Cobalt	10.5	B	7.8	mg/kg	7440-48-4	EPA200.7/SW6010
33092007	BSSB05-04	SOIL	06/01/92	06/30/92	Chromium	25.9		3.3	mg/kg	7440-47-3	EPA200.7/SW6010
33092007	BSSB05-04	SOIL	06/01/92	06/30/92	Copper	28.3		1.1	mg/kg	7440-50-8	EPA200.7/SW6010
33092007	BSSB05-04	SOIL	06/01/92	06/30/92	Iron	25500	*	8.3	mg/kg	7439-89-6	EPA200.7/SW6010
33092007	BSSB05-04	SOIL	06/01/92	06/18/92	Mercury	0.05	B	0.1	mg/kg	7439-97-6	SW7471
33092007	BSSB05-04	SOIL	06/01/92	06/30/92	Potassium	737	B	148.0	mg/kg	7440-09-7	EPA200.7/SW6010
33092007	BSSB05-04	SOIL	06/01/92	06/30/92	Magnesium	7600		11.4	mg/kg	7439-95-4	EPA200.7/SW6010
33092007	BSSB05-04	SOIL	06/01/92	06/30/92	Manganese	496	*	0.8	mg/kg	7439-96-5	EPA200.7/SW6010
33092007	BSSB05-04	SOIL	06/01/92	06/30/92	Sodium	195	B	18.6	mg/kg	7440-23-5	EPA200.7/SW6010
33092007	BSSB05-04	SOIL	06/01/92	06/30/92	Nickel	28.5		7.8	mg/kg	7440-02-0	EPA200.7/SW6010
33092007	BSSB05-04	SOIL	06/01/92	07/01/92	Lead	5.3		0.6	mg/kg	7439-92-1	EPA239.2/SW7421
33092007	BSSB05-04	SOIL	06/01/92	06/30/92	Antimony	2.3	< N	11.0	mg/kg	7440-36-0	EPA200.7/SW6010
33092007	BSSB05-04	SOIL	06/01/92	07/06/92	Selenium	0.09	<	0.4	mg/kg	7782-49-2	EPA270.2/SW7740
33092007	BSSB05-04	SOIL	06/01/92	07/01/92	Thallium	0.17	<	0.8	mg/kg	7440-28-0	EPA279.2/SW7841
33092007	BSSB05-04	SOIL	06/01/92	06/30/92	Vanadium	49.3		1.3	mg/kg	7440-62-2	EPA200.7/SW6010
33092007	BSSB05-04	SOIL	06/01/92	06/30/92	Zinc	52.9		1.6	mg/kg	7440-66-6	EPA200.7/SW6010
33092008	BSSB10-01	SOIL	06/02/92	06/30/92	Silver	1.6	B	1.4	mg/kg	7440-22-4	EPA200.7/SW6010
33092008	BSSB10-01	SOIL	06/02/92	06/30/92	Aluminum	25000		7.6	mg/kg	7429-90-5	EPA200.7/SW6010
33092008	BSSB10-01	SOIL	06/02/92	07/02/92	Arsenic	8.4		0.7	mg/kg	7440-38-2	EPA206.2/SW7060
33092008	BSSB10-01	SOIL	06/02/92	06/30/92	Barium	128		0.3	mg/kg	7440-39-3	EPA200.7/SW6010
33092008	BSSB10-01	SOIL	06/02/92	06/30/92	Beryllium	0.62	B	0.8	mg/kg	7440-41-7	EPA200.7/SW6010
33092008	BSSB10-01	SOIL	06/02/92	06/30/92	Calcium	3120	E	39.5	mg/kg	7440-70-2	EPA200.7/SW6010
33092008	BSSB10-01	SOIL	06/02/92	06/30/92	Cadmium	1.7		1.0	mg/kg	7440-43-9	EPA200.7/SW6010
33092008	BSSB10-01	SOIL	06/02/92	06/30/92	Cobalt	9.2	B	7.8	mg/kg	7440-48-4	EPA200.7/SW6010
33092008	BSSB10-01	SOIL	06/02/92	06/30/92	Chromium	31.6		3.3	mg/kg	7440-47-3	EPA200.7/SW6010
33092008	BSSB10-01	SOIL	06/02/92	06/30/92	Copper	18.7		1.1	mg/kg	7440-50-8	EPA200.7/SW6010
33092008	BSSB10-01	SOIL	06/02/92	06/30/92	Iron	31400	*	8.3	mg/kg	7439-89-6	EPA200.7/SW6010
33092008	BSSB10-01	SOIL	06/02/92	06/18/92	Mercury	0.06	B	0.1	mg/kg	7439-97-6	SW7471
33092008	BSSB10-01	SOIL	06/02/92	06/30/92	Potassium	669	B	148.0	mg/kg	7440-09-7	EPA200.7/SW6010
33092008	BSSB10-01	SOIL	06/02/92	06/30/92	Magnesium	4060		11.4	mg/kg	7439-95-4	EPA200.7/SW6010

33092008	BSSB10-01	SOIL	06/02/92	06/30/92	Manganese	339	*	0.8	mg/kg	7439-96-5	EPA200.7/SW6010
33092008	BSSB10-01	SOIL	06/02/92	06/30/92	Sodium	381	B	18.6	mg/kg	7440-23-5	EPA200.7/SW6010
33092008	BSSB10-01	SOIL	06/02/92	06/30/92	Nickel	24.9		7.8	mg/kg	7440-02-0	EPA200.7/SW6010
33092008	BSSB10-01	SOIL	06/02/92	07/01/92	Lead	6.9		0.6	mg/kg	7439-92-1	EPA239.2/SW7421
33092008	BSSB10-01	SOIL	06/02/92	06/30/92	Antimony	3.2	< N	11.0	mg/kg	7440-36-0	EPA200.7/SW6010
33092008	BSSB10-01	SOIL	06/02/92	07/05/92	Selenium	0.38	BW	0.4	mg/kg	7782-49-2	EPA270.2/SW7740
33092008	BSSB10-01	SOIL	06/02/92	07/01/92	Thallium	0.23	<	0.8	mg/kg	7440-28-0	EPA279.2/SW7841
33092008	BSSB10-01	SOIL	06/02/92	06/30/92	Vanadium	77.1		1.3	mg/kg	7440-62-2	EPA200.7/SW6010
33092008	BSSB10-01	SOIL	06/02/92	06/30/92	Zinc	46.9		1.6	mg/kg	7440-66-6	EPA200.7/SW6010
33092009	BSSB10-02	SOIL	06/02/92	06/30/92	Silver	0.34	<	1.4	mg/kg	7440-22-4	EPA200.7/SW6010
33092009	BSSB10-02	SOIL	06/02/92	06/30/92	Aluminum	20500		7.6	mg/kg	7429-90-5	EPA200.7/SW6010
33092009	BSSB10-02	SOIL	06/02/92	07/02/92	Arsenic	5.6		0.7	mg/kg	7440-38-2	EPA206.2/SW7060
33092009	BSSB10-02	SOIL	06/02/92	06/30/92	Barium	125		0.3	mg/kg	7440-39-3	EPA200.7/SW6010
33092009	BSSB10-02	SOIL	06/02/92	06/30/92	Beryllium	0.46	B	0.8	mg/kg	7440-41-7	EPA200.7/SW6010
33092009	BSSB10-02	SOIL	06/02/92	06/30/92	Calcium	2790	E	39.5	mg/kg	7440-70-2	EPA200.7/SW6010
33092009	BSSB10-02	SOIL	06/02/92	06/30/92	Cadmium	1.8		1.0	mg/kg	7440-43-9	EPA200.7/SW6010
33092009	BSSB10-02	SOIL	06/02/92	06/30/92	Cobalt	14.1		7.8	mg/kg	7440-48-4	EPA200.7/SW6010
33092009	BSSB10-02	SOIL	06/02/92	06/30/92	Chromium	35.9		3.3	mg/kg	7440-47-3	EPA200.7/SW6010
33092009	BSSB10-02	SOIL	06/02/92	06/30/92	Copper	28.3		1.1	mg/kg	7440-50-8	EPA200.7/SW6010
33092009	BSSB10-02	SOIL	06/02/92	06/30/92	Iron	30500	*	8.3	mg/kg	7439-89-6	EPA200.7/SW6010
33092009	BSSB10-02	SOIL	06/02/92	06/18/92	Mercury	0.08		0.1	mg/kg	7439-97-6	SW7471
33092009	BSSB10-02	SOIL	06/02/92	06/30/92	Potassium	586	B	148.50	mg/kg	7440-09-7	EPA200.7/SW6010
33092009	BSSB10-02	SOIL	06/02/92	06/30/92	Magnesium	7450		11.4	mg/kg	7439-95-4	EPA200.7/SW6010
33092009	BSSB10-02	SOIL	06/02/92	06/30/92	Manganese	641	*	0.8	mg/kg	7439-96-5	EPA200.7/SW6010
33092009	BSSB10-02	SOIL	06/02/92	06/30/92	Sodium	262	B	18.6	mg/kg	7440-23-5	EPA200.7/SW6010
33092009	BSSB10-02	SOIL	06/02/92	06/30/92	Nickel	35.1		7.8	mg/kg	7440-02-0	EPA200.7/SW6010
33092009	BSSB10-02	SOIL	06/02/92	07/01/92	Lead	5.7		0.6	mg/kg	7439-92-1	EPA239.2/SW7421
33092009	BSSB10-02	SOIL	06/02/92	06/30/92	Antimony	2.7	< N	11.0	mg/kg	7440-36-0	EPA200.7/SW6010
33092009	BSSB10-02	SOIL	06/02/92	07/05/92	Selenium	0.10	<	0.4	mg/kg	7782-49-2	EPA270.2/SW7740
33092009	BSSB10-02	SOIL	06/02/92	07/01/92	Thallium	0.19	<	0.8	mg/kg	7440-28-0	EPA279.2/SW7841
33092009	BSSB10-02	SOIL	06/02/92	06/30/92	Vanadium	60.6		1.3	mg/kg	7440-62-2	EPA200.7/SW6010
33092009	BSSB10-02	SOIL	06/02/92	06/30/92	Zinc	60.3		1.6	mg/kg	7440-66-6	EPA200.7/SW6010
33092010	BSSB10-03	SOIL	06/02/92	06/30/92	Silver	0.29	<	1.4	mg/kg	7440-22-4	EPA200.7/SW6010
33092010	BSSB10-03	SOIL	06/02/92	06/30/92	Aluminum	16600		7.6	mg/kg	7429-90-5	EPA200.7/SW6010
33092010	BSSB10-03	SOIL	06/02/92	07/02/92	Arsenic	6.2		0.7	mg/kg	7440-38-2	EPA206.2/SW7060
33092010	BSSB10-03	SOIL	06/02/92	06/30/92	Barium	82.5		0.3	mg/kg	7440-39-3	EPA200.7/SW6010
33092010	BSSB10-03	SOIL	06/02/92	06/30/92	Beryllium	0.44	B	0.8	mg/kg	7440-41-7	EPA200.7/SW6010
33092010	BSSB10-03	SOIL	06/02/92	06/30/92	Calcium	5770	E	39.5	mg/kg	7440-70-2	EPA200.7/SW6010
33092010	BSSB10-03	SOIL	06/02/92	06/30/92	Cadmium	2.2		1.0	mg/kg	7440-43-9	EPA200.7/SW6010
33092010	BSSB10-03	SOIL	06/02/92	06/30/92	Cobalt	12.4		7.8	mg/kg	7440-48-4	EPA200.7/SW6010
33092010	BSSB10-03	SOIL	06/02/92	06/30/92	Chromium	37.0		3.3	mg/kg	7440-47-3	EPA200.7/SW6010
33092010	BSSB10-03	SOIL	06/02/92	06/30/92	Copper	31.3		1.1	mg/kg	7440-50-8	EPA200.7/SW6010
33092010	BSSB10-03	SOIL	06/02/92	06/30/92	Iron	30400	*	8.3	mg/kg	7439-89-6	EPA200.7/SW6010
33092010	BSSB10-03	SOIL	06/02/92	06/18/92	Mercury	0.07		0.1	mg/kg	7439-97-6	SW7471
33092010	BSSB10-03	SOIL	06/02/92	06/30/92	Potassium	792	B	148.0	mg/kg	7440-09-7	EPA200.7/SW6010

33092010	BSSB10-03	SOIL	06/02/92	06/30/92	Magnesium	10700		11.4	mg/kg	7439-95-4	EPA200.7/SW6010
33092010	BSSB10-03	SOIL	06/02/92	06/30/92	Manganese	531	*	0.8	mg/kg	7439-96-5	EPA200.7/SW6010
33092010	BSSB10-03	SOIL	06/02/92	06/30/92	Sodium	221	B	18.6	mg/kg	7440-23-5	EPA200.7/SW6010
33092010	BSSB10-03	SOIL	06/02/92	06/30/92	Nickel	44.9		7.8	mg/kg	7440-02-0	EPA200.7/SW6010
33092010	BSSB10-03	SOIL	06/02/92	07/01/92	Lead	5.7		0.6	mg/kg	7439-92-1	EPA239.2/SW7421
33092010	BSSB10-03	SOIL	06/02/92	06/30/92	Antimony	2.3	< N	11.0	mg/kg	7440-36-0	EPA200.7/SW6010
33092010	BSSB10-03	SOIL	06/02/92	07/06/92	Selenium	0.80	< W	0.4	mg/kg	7782-49-2	EPA270.2/SW7740
33092010	BSSB10-03	SOIL	06/02/92	07/01/92	Thallium	0.17	<	0.8	mg/kg	7440-28-0	EPA279.2/SW7841
33092010	BSSB10-03	SOIL	06/02/92	06/30/92	Vanadium	59.9		1.3	mg/kg	7440-62-2	EPA200.7/SW6010
33092010	BSSB10-03	SOIL	06/02/92	06/30/92	Zinc	63.0		1.6	mg/kg	7440-66-6	EPA200.7/SW6010
33092011	BSSB10-04	SOIL	06/02/92	06/30/92	Silver	0.31	<	1.4	mg/kg	7440-22-4	EPA200.7/SW6010
33092011	BSSB10-04	SOIL	06/02/92	06/30/92	Aluminum	13700		7.6	mg/kg	7429-90-5	EPA200.7/SW6010
33092011	BSSB10-04	SOIL	06/02/92	07/02/92	Arsenic	7.5		0.7	mg/kg	7440-38-2	EPA206.2/SW7060
33092011	BSSB10-04	SOIL	06/02/92	06/30/92	Barium	48.7		0.3	mg/kg	7440-39-3	EPA200.7/SW6010
33092011	BSSB10-04	SOIL	06/02/92	06/30/92	Beryllium	0.48	B	0.8	mg/kg	7440-41-7	EPA200.7/SW6010
33092011	BSSB10-04	SOIL	06/02/92	06/30/92	Calcium	6510	E	39.5	mg/kg	7440-70-2	EPA200.7/SW6010
33092011	BSSB10-04	SOIL	06/02/92	06/30/92	Cadmium	1.8		1.0	mg/kg	7440-43-9	EPA200.7/SW6010
33092011	BSSB10-04	SOIL	06/02/92	06/30/92	Cobalt	10.2	B	7.8	mg/kg	7440-48-4	EPA200.7/SW6010
33092011	BSSB10-04	SOIL	06/02/92	06/30/92	Chromium	33.0		3.3	mg/kg	7440-47-3	EPA200.7/SW6010
33092011	BSSB10-04	SOIL	06/02/92	06/30/92	Copper	30.6		1.1	mg/kg	7440-50-8	EPA200.7/SW6010
33092011	BSSB10-04	SOIL	06/02/92	06/30/92	Iron	27700	*	8.3	mg/kg	7439-89-6	EPA200.7/SW6010
33092011	BSSB10-04	SOIL	06/02/92	06/18/92	Mercury	0.10		0.1	mg/kg	7439-97-6	SW7471
33092011	BSSB10-04	SOIL	06/02/92	06/30/92	Potassium	598	B	148.0	mg/kg	7440-09-7	EPA200.7/SW6010
33092011	BSSB10-04	SOIL	06/02/92	06/30/92	Magnesium	8920		11.4	mg/kg	7439-95-4	EPA200.7/SW6010
33092011	BSSB10-04	SOIL	06/02/92	06/30/92	Manganese	523	*	0.8	mg/kg	7439-96-5	EPA200.7/SW6010
33092011	BSSB10-04	SOIL	06/02/92	06/30/92	Sodium	220	B	18.6	mg/kg	7440-23-5	EPA200.7/SW6010
33092011	BSSB10-04	SOIL	06/02/92	06/30/92	Nickel	37.7		7.8	mg/kg	7440-02-0	EPA200.7/SW6010
33092011	BSSB10-04	SOIL	06/02/92	07/01/92	Lead	4.8		0.6	mg/kg	7439-92-1	EPA239.2/SW7421
33092011	BSSB10-04	SOIL	06/02/92	06/30/92	Antimony	2.4	< N	11.0	mg/kg	7440-36-0	EPA200.7/SW6010
33092011	BSSB10-04	SOIL	06/02/92	07/06/92	Selenium	0.09	<	0.4	mg/kg	7782-49-2	EPA270.2/SW7740
33092011	BSSB10-04	SOIL	06/02/92	07/01/92	Thallium	0.18	<	0.8	mg/kg	7440-28-0	EPA279.2/SW7841
33092011	BSSB10-04	SOIL	06/02/92	06/30/92	Vanadium	55.1		1.3	mg/kg	7440-62-2	EPA200.7/SW6010
33092011	BSSB10-04	SOIL	06/02/92	06/30/92	Zinc	60.2		1.6	mg/kg	7440-66-6	EPA200.7/SW6010
33092014	BSSB02-01	SOIL	06/02/92	06/30/92	Silver	0.67	B	1.4	mg/kg	7440-22-4	EPA200.7/SW6010
33092014	BSSB02-01	SOIL	06/02/92	06/30/92	Aluminum	16100		7.6	mg/kg	7429-90-5	EPA200.7/SW6010
33092014	BSSB02-01	SOIL	06/02/92	07/02/92	Arsenic	5.2		0.7	mg/kg	7440-38-2	EPA206.2/SW7060
33092014	BSSB02-01	SOIL	06/02/92	06/30/92	Barium	79.2		0.3	mg/kg	7440-39-3	EPA200.7/SW6010
33092014	BSSB02-01	SOIL	06/02/92	06/30/92	Beryllium	0.47	B	0.8	mg/kg	7440-41-7	EPA200.7/SW6010
33092014	BSSB02-01	SOIL	06/02/92	06/30/92	Calcium	3710	E	39.5	mg/kg	7440-70-2	EPA200.7/SW6010
33092014	BSSB02-01	SOIL	06/02/92	06/30/92	Cadmium	1.3	B	1.0	mg/kg	7440-43-9	EPA200.7/SW6010
33092014	BSSB02-01	SOIL	06/02/92	06/30/92	Cobalt	11.3	B	7.8	mg/kg	7440-48-4	EPA200.7/SW6010
33092014	BSSB02-01	SOIL	06/02/92	06/30/92	Chromium	24.7		3.3	mg/kg	7440-47-3	EPA200.7/SW6010
33092014	BSSB02-01	SOIL	06/02/92	06/30/92	Copper	24.8		1.1	mg/kg	7440-50-8	EPA200.7/SW6010
33092014	BSSB02-01	SOIL	06/02/92	06/30/92	Iron	22600	*	8.3	mg/kg	7439-89-6	EPA200.7/SW6010
33092014	BSSB02-01	SOIL	06/02/92	06/18/92	Mercury	0.06	B	0.1	mg/kg	7439-97-6	SW7471

33092014	BSSB02-01	SOIL	06/02/92	06/30/92	Potassium	685	B	148.0	mg/kg	7440-09-7	EPA200.7/SW6010
33092014	BSSB02-01	SOIL	06/02/92	06/30/92	Magnesium	6610		11.4	mg/kg	7439-95-4	EPA200.7/SW6010
33092014	BSSB02-01	SOIL	06/02/92	06/30/92	Manganese	475	*	0.8	mg/kg	7439-96-5	EPA200.7/SW6010
33092014	BSSB02-01	SOIL	06/02/92	06/30/92	Sodium	279	B	18.6	mg/kg	7440-23-5	EPA200.7/SW6010
33092014	BSSB02-01	SOIL	06/02/92	06/30/92	Nickel	31.7		7.8	mg/kg	7440-02-0	EPA200.7/SW6010
33092014	BSSB02-01	SOIL	06/02/92	07/01/92	Lead	4.8		0.6	mg/kg	7439-92-1	EPA239.2/SW7421
33092014	BSSB02-01	SOIL	06/02/92	06/30/92	Antimony	2.9	< N	11.0	mg/kg	7440-36-0	EPA200.7/SW6010
33092014	BSSB02-01	SOIL	06/02/92	07/05/92	Selenium	0.11	<	0.4	mg/kg	7782-49-2	EPA270.2/SW7740
33092014	BSSB02-01	SOIL	06/02/92	07/01/92	Thallium	0.21	<	0.8	mg/kg	7440-28-0	EPA279.2/SW7841
33092014	BSSB02-01	SOIL	06/02/92	06/30/92	Vanadium	45.4		1.3	mg/kg	7440-62-2	EPA200.7/SW6010
33092014	BSSB02-01	SOIL	06/02/92	06/30/92	Zinc	45.5		1.6	mg/kg	7440-66-6	EPA200.7/SW6010
33092015	BSSB02-02	SOIL	06/02/92	06/30/92	Silver	0.69	B	1.4	mg/kg	7440-22-4	EPA200.7/SW6010
33092015	BSSB02-02	SOIL	06/02/92	06/30/92	Aluminum	16500		7.6	mg/kg	7429-90-5	EPA200.7/SW6010
33092015	BSSB02-02	SOIL	06/02/92	07/02/92	Arsenic	7.7		0.7	mg/kg	7440-38-2	EPA206.2/SW7060
33092015	BSSB02-02	SOIL	06/02/92	06/30/92	Barium	87.0		0.3	mg/kg	7440-39-3	EPA200.7/SW6010
33092015	BSSB02-02	SOIL	06/02/92	06/30/92	Beryllium	0.48	B	0.8	mg/kg	7440-41-7	EPA200.7/SW6010
33092015	BSSB02-02	SOIL	06/02/92	06/30/92	Calcium	1830	E	39.5	mg/kg	7440-70-2	EPA200.7/SW6010
33092015	BSSB02-02	SOIL	06/02/92	06/30/92	Cadmium	1.4	B	1.0	mg/kg	7440-43-9	EPA200.7/SW6010
33092015	BSSB02-02	SOIL	06/02/92	06/30/92	Cobalt	10.2	B	7.8	mg/kg	7440-48-4	EPA200.7/SW6010
33092015	BSSB02-02	SOIL	06/02/92	06/30/92	Chromium	21.8		3.3	mg/kg	7440-47-3	EPA200.7/SW6010
33092015	BSSB02-02	SOIL	06/02/92	06/30/92	Copper	17.5	.	1.1	mg/kg	7440-50-8	EPA200.7/SW6010
33092015	BSSB02-02	SOIL	06/02/92	06/30/92	Iron	23600	*	8.3	mg/kg	7439-89-6	EPA200.7/SW6010
33092015	BSSB02-02	SOIL	06/02/92	06/18/92	Mercury	0.04	B	0.1	mg/kg	7439-97-6	SW7471
33092015	BSSB02-02	SOIL	06/02/92	06/30/92	Potassium	296	B	148.0	mg/kg	7440-09-7	EPA200.7/SW6010
33092015	BSSB02-02	SOIL	06/02/92	06/30/92	Magnesium	4480		11.4	mg/kg	7439-95-4	EPA200.7/SW6010
33092015	BSSB02-02	SOIL	06/02/92	06/30/92	Manganese	455	*	0.8	mg/kg	7439-96-5	EPA200.7/SW6010
33092015	BSSB02-02	SOIL	06/02/92	06/30/92	Sodium	240	B	18.6	mg/kg	7440-23-5	EPA200.7/SW6010
33092015	BSSB02-02	SOIL	06/02/92	06/30/92	Nickel	21.2		7.8	mg/kg	7440-02-0	EPA200.7/SW6010
33092015	BSSB02-02	SOIL	06/02/92	07/01/92	Lead	6.2		0.6	mg/kg	7439-92-1	EPA239.2/SW7421
33092015	BSSB02-02	SOIL	06/02/92	06/30/92	Antimony	3.0	< N	11.0	mg/kg	7440-36-0	EPA200.7/SW6010
33092015	BSSB02-02	SOIL	06/02/92	07/05/92	Selenium	0.29	B	0.4	mg/kg	7782-49-2	EPA270.2/SW7740
33092015	BSSB02-02	SOIL	06/02/92	07/01/92	Thallium	0.22	<	0.8	mg/kg	7440-28-0	EPA279.2/SW7841
33092015	BSSB02-02	SOIL	06/02/92	06/30/92	Vanadium	47.1		1.3	mg/kg	7440-62-2	EPA200.7/SW6010
33092015	BSSB02-02	SOIL	06/02/92	06/30/92	Zinc	41.6		1.6	mg/kg	7440-66-6	EPA200.7/SW6010
33092016	BSSB02-03	SOIL	06/02/92	06/30/92	Silver	0.49	B	1.4	mg/kg	7440-22-4	EPA200.7/SW6010
33092016	BSSB02-03	SOIL	06/02/92	06/30/92	Aluminum	13600		7.6	mg/kg	7429-90-5	EPA200.7/SW6010
33092016	BSSB02-03	SOIL	06/02/92	07/02/92	Arsenic	5.3		0.7	mg/kg	7440-38-2	EPA206.2/SW7060
33092016	BSSB02-03	SOIL	06/02/92	06/30/92	Barium	71.8		0.3	mg/kg	7440-39-3	EPA200.7/SW6010
33092016	BSSB02-03	SOIL	06/02/92	06/30/92	Beryllium	0.40	B	0.8	mg/kg	7440-41-7	EPA200.7/SW6010
33092016	BSSB02-03	SOIL	06/02/92	06/30/92	Calcium	1510	E	39.5	mg/kg	7440-70-2	EPA200.7/SW6010
33092016	BSSB02-03	SOIL	06/02/92	06/30/92	Cadmium	0.96	B	1.0	mg/kg	7440-43-9	EPA200.7/SW6010
33092016	BSSB02-03	SOIL	06/02/92	06/30/92	Cobalt	7.6	B	7.8	mg/kg	7440-48-4	EPA200.7/SW6010
33092016	BSSB02-03	SOIL	06/02/92	06/30/92	Chromium	18.5		3.3	mg/kg	7440-47-3	EPA200.7/SW6010
33092016	BSSB02-03	SOIL	06/02/92	06/30/92	Copper	14.5		1.1	mg/kg	7440-50-8	EPA200.7/SW6010
33092016	BSSB02-03	SOIL	06/02/92	06/30/92	Iron	19400	*	8.3	mg/kg	7439-89-6	EPA200.7/SW6010

33092016	BSSB02-03	SOIL	06/02/92	06/18/92	Mercury	0.09		0.1	mg/kg	7439-97-6	SW7471
33092016	BSSB02-03	SOIL	06/02/92	06/30/92	Potassium	221	B	148.0	mg/kg	7440-09-7	EPA200.7/SW6010
33092016	BSSB02-03	SOIL	06/02/92	06/30/92	Magnesium	3690		11.4	mg/kg	7439-95-4	EPA200.7/SW6010
33092016	BSSB02-03	SOIL	06/02/92	06/30/92	Manganese	375	*	0.8	mg/kg	7439-96-5	EPA200.7/SW6010
33092016	BSSB02-03	SOIL	06/02/92	06/30/92	Sodium	201	B	18.6	mg/kg	7440-23-5	EPA200.7/SW6010
33092016	BSSB02-03	SOIL	06/02/92	06/30/92	Nickel	17.6		7.8	mg/kg	7440-02-0	EPA200.7/SW6010
33092016	BSSB02-03	SOIL	06/02/92	07/01/92	Lead	4.2		0.6	mg/kg	7439-92-1	EPA239.2/SW7421
33092016	BSSB02-03	SOIL	06/02/92	06/30/92	Antimony	2.5	< N	11.0	mg/kg	7440-36-0	EPA200.7/SW6010
33092016	BSSB02-03	SOIL	06/02/92	07/05/92	Selenium	0.09	< W	0.4	mg/kg	7782-49-2	EPA270.2/SW7740
33092016	BSSB02-03	SOIL	06/02/92	07/01/92	Thallium	0.18	<	0.8	mg/kg	7440-28-0	EPA279.2/SW7841
33092016	BSSB02-03	SOIL	06/02/92	06/30/92	Vanadium	38.6		1.3	mg/kg	7440-62-2	EPA200.7/SW6010
33092016	BSSB02-03	SOIL	06/02/92	06/30/92	Zinc	34.1		1.6	mg/kg	7440-66-6	EPA200.7/SW6010
33092017	BSSB02-04	SOIL	06/04/92	06/30/92	Silver	0.59	B	1.4	mg/kg	7440-22-4	EPA200.7/SW6010
33092017	BSSB02-04	SOIL	06/04/92	06/30/92	Aluminum	13100		7.6	mg/kg	7429-90-5	EPA200.7/SW6010
33092017	BSSB02-04	SOIL	06/04/92	07/02/92	Arsenic	5.0		0.7	mg/kg	7440-38-2	EPA206.2/SW7060
33092017	BSSB02-04	SOIL	06/04/92	06/30/92	Barium	61.1		0.3	mg/kg	7440-39-3	EPA200.7/SW6010
33092017	BSSB02-04	SOIL	06/04/92	06/30/92	Beryllium	0.31	B	0.8	mg/kg	7440-41-7	EPA200.7/SW6010
33092017	BSSB02-04	SOIL	06/04/92	06/30/92	Calcium	6240	E	39.5	mg/kg	7440-70-2	EPA200.7/SW6010
33092017	BSSB02-04	SOIL	06/04/92	06/30/92	Cadmium	1.8		1.0	mg/kg	7440-43-9	EPA200.7/SW6010
33092017	BSSB02-04	SOIL	06/04/92	06/30/92	Cobalt	10.8	B	7.8	mg/kg	7440-48-4	EPA200.7/SW6010
33092017	BSSB02-04	SOIL	06/04/92	06/30/92	Chromium	26.9		3.3	mg/kg	7440-47-3	EPA200.7/SW6010
33092017	BSSB02-04	SOIL	06/04/92	06/30/92	Copper	28.8		1.1	mg/kg	7440-50-8	EPA200.7/SW6010
33092017	BSSB02-04	SOIL	06/04/92	06/30/92	Iron	23800	*	8.3	mg/kg	7439-89-6	EPA200.7/SW6010
33092017	BSSB02-04	SOIL	06/04/92	06/18/92	Mercury	0.09		0.1	mg/kg	7439-97-6	SW7471
33092017	BSSB02-04	SOIL	06/04/92	06/30/92	Potassium	833	B	148.0	mg/kg	7440-09-7	EPA200.7/SW6010
33092017	BSSB02-04	SOIL	06/04/92	06/30/92	Magnesium	6920		11.4	mg/kg	7439-95-4	EPA200.7/SW6010
33092017	BSSB02-04	SOIL	06/04/92	06/30/92	Manganese	500	*	0.8	mg/kg	7439-96-5	EPA200.7/SW6010
33092017	BSSB02-04	SOIL	06/04/92	06/30/92	Sodium	285	B	18.6	mg/kg	7440-23-5	EPA200.7/SW6010
33092017	BSSB02-04	SOIL	06/04/92	06/30/92	Nickel	32.4		7.8	mg/kg	7440-02-0	EPA200.7/SW6010
33092017	BSSB02-04	SOIL	06/04/92	07/01/92	Lead	4.1		0.6	mg/kg	7439-92-1	EPA239.2/SW7421
33092017	BSSB02-04	SOIL	06/04/92	06/30/92	Antimony	2.5	< N	11.0	mg/kg	7440-36-0	EPA200.7/SW6010
33092017	BSSB02-04	SOIL	06/04/92	07/05/92	Selenium	0.09	<	0.4	mg/kg	7782-49-2	EPA270.2/SW7740
33092017	BSSB02-04	SOIL	06/04/92	07/01/92	Thallium	0.18	<	0.8	mg/kg	7440-28-0	EPA279.2/SW7841
33092017	BSSB02-04	SOIL	06/04/92	06/30/92	Vanadium	45.3		1.3	mg/kg	7440-62-2	EPA200.7/SW6010
33092017	BSSB02-04	SOIL	06/04/92	06/30/92	Zinc	54.7		1.6	mg/kg	7440-66-6	EPA200.7/SW6010
33092018	BSSB04-01	SOIL	06/04/92	06/30/92	Silver	0.62	B	1.4	mg/kg	7440-22-4	EPA200.7/SW6010
33092018	BSSB04-01	SOIL	06/04/92	06/30/92	Aluminum	12800		7.6	mg/kg	7429-90-5	EPA200.7/SW6010
33092018	BSSB04-01	SOIL	06/04/92	07/06/92	Arsenic	9.7	S	0.7	mg/kg	7440-38-2	EPA206.2/SW7060
33092018	BSSB04-01	SOIL	06/04/92	06/30/92	Barium	152		0.3	mg/kg	7440-39-3	EPA200.7/SW6010
33092018	BSSB04-01	SOIL	06/04/92	06/30/92	Beryllium	0.54	B	0.8	mg/kg	7440-41-7	EPA200.7/SW6010
33092018	BSSB04-01	SOIL	06/04/92	06/30/92	Calcium	3040	E	39.5	mg/kg	7440-70-2	EPA200.7/SW6010
33092018	BSSB04-01	SOIL	06/04/92	06/30/92	Cadmium	1.2	B	1.0	mg/kg	7440-43-9	EPA200.7/SW6010
33092018	BSSB04-01	SOIL	06/04/92	06/30/92	Cobalt	6.1	B	7.8	mg/kg	7440-48-4	EPA200.7/SW6010
33092018	BSSB04-01	SOIL	06/04/92	06/30/92	Chromium	17.9		3.3	mg/kg	7440-47-3	EPA200.7/SW6010
33092018	BSSB04-01	SOIL	06/04/92	06/30/92	Copper	9.5		1.1	mg/kg	7440-50-8	EPA200.7/SW6010

33092018	BSSB04-01	SOIL	06/04/92	06/30/92	Iron	25900	*	8.3	mg/kg	7439-89-6	EPA200.7/SW6010
33092018	BSSB04-01	SOIL	06/04/92	06/18/92	Mercury	0.05	B	0.1	mg/kg	7439-97-6	SW7471
33092018	BSSB04-01	SOIL	06/04/92	06/30/92	Potassium	391	B	148.0	mg/kg	7440-09-7	EPA200.7/SW6010
33092018	BSSB04-01	SOIL	06/04/92	06/30/92	Magnesium	2050		11.4	mg/kg	7439-95-4	EPA200.7/SW6010
33092018	BSSB04-01	SOIL	06/04/92	06/30/92	Manganese	351	*	0.8	mg/kg	7439-96-5	EPA200.7/SW6010
33092018	BSSB04-01	SOIL	06/04/92	06/30/92	Sodium	353	B	18.6	mg/kg	7440-23-5	EPA200.7/SW6010
33092018	BSSB04-01	SOIL	06/04/92	06/30/92	Nickel	8.2	B	7.8	mg/kg	7440-02-0	EPA200.7/SW6010
33092018	BSSB04-01	SOIL	06/04/92	07/01/92	Lead	11.4		0.6	mg/kg	7439-92-1	EPA239.2/SW7421
33092018	BSSB04-01	SOIL	06/04/92	06/30/92	Antimony	3.6	< N	11.0	mg/kg	7440-36-0	EPA200.7/SW6010
33092018	BSSB04-01	SOIL	06/04/92	07/05/92	Selenium	0.26	B	0.4	mg/kg	7782-49-2	EPA270.2/SW7740
33092018	BSSB04-01	SOIL	06/04/92	07/01/92	Thallium	0.29	B	0.8	mg/kg	7440-28-0	EPA279.2/SW7841
33092018	BSSB04-01	SOIL	06/04/92	06/30/92	Vanadium	66.9		1.3	mg/kg	7440-62-2	EPA200.7/SW6010
33092018	BSSB04-01	SOIL	06/04/92	06/30/92	Zinc	36.8		1.6	mg/kg	7440-66-6	EPA200.7/SW6010
33092019	BSSB04-02	SOIL	06/04/92	06/30/92	Silver	0.63	B	1.4	mg/kg	7440-22-4	EPA200.7/SW6010
33092019	BSSB04-02	SOIL	06/04/92	06/30/92	Aluminum	14000		7.6	mg/kg	7429-90-5	EPA200.7/SW6010
33092019	BSSB04-02	SOIL	06/04/92	07/02/92	Arsenic	9.7		0.7	mg/kg	7440-38-2	EPA206.2/SW7060
33092019	BSSB04-02	SOIL	06/04/92	06/30/92	Barium	156		0.3	mg/kg	7440-39-3	EPA200.7/SW6010
33092019	BSSB04-02	SOIL	06/04/92	06/30/92	Beryllium	0.58	B	0.8	mg/kg	7440-41-7	EPA200.7/SW6010
33092019	BSSB04-02	SOIL	06/04/92	06/30/92	Calcium	2560	E	39.5	mg/kg	7440-70-2	EPA200.7/SW6010
33092019	BSSB04-02	SOIL	06/04/92	06/30/92	Cadmium	1.5	B	1.0	mg/kg	7440-43-9	EPA200.7/SW6010
33092019	BSSB04-02	SOIL	06/04/92	06/30/92	Cobalt	6.7	B	7.8	mg/kg	7440-48-4	EPA200.7/SW6010
33092019	BSSB04-02	SOIL	06/04/92	06/30/92	Chromium	17.5		3.3	mg/kg	7440-47-3	EPA200.7/SW6010
33092019	BSSB04-02	SOIL	06/04/92	06/30/92	Copper	9.2		1.1	mg/kg	7440-50-8	EPA200.7/SW6010
33092019	BSSB04-02	SOIL	06/04/92	06/30/92	Iron	27800	*	8.3	mg/kg	7439-89-6	EPA200.7/SW6010
33092019	BSSB04-02	SOIL	06/04/92	06/18/92	Mercury	0.05	<	0.1	mg/kg	7439-97-6	SW7471
33092019	BSSB04-02	SOIL	06/04/92	06/30/92	Potassium	361	B	148.0	mg/kg	7440-09-7	EPA200.7/SW6010
33092019	BSSB04-02	SOIL	06/04/92	06/30/92	Magnesium	1800		11.4	mg/kg	7439-95-4	EPA200.7/SW6010
33092019	BSSB04-02	SOIL	06/04/92	06/30/92	Manganese	360	*	0.8	mg/kg	7439-96-5	EPA200.7/SW6010
33092019	BSSB04-02	SOIL	06/04/92	06/30/92	Sodium	327	B	18.6	mg/kg	7440-23-5	EPA200.7/SW6010
33092019	BSSB04-02	SOIL	06/04/92	06/30/92	Nickel	8.8	B	7.8	mg/kg	7440-02-0	EPA200.7/SW6010
33092019	BSSB04-02	SOIL	06/04/92	07/01/92	Lead	10.8		0.6	mg/kg	7439-92-1	EPA239.2/SW7421
33092019	BSSB04-02	SOIL	06/04/92	06/30/92	Antimony	3.7	< N	11.0	mg/kg	7440-36-0	EPA200.7/SW6010
33092019	BSSB04-02	SOIL	06/04/92	07/05/92	Selenium	0.36	B	0.4	mg/kg	7782-49-2	EPA270.2/SW7740
33092019	BSSB04-02	SOIL	06/04/92	07/01/92	Thallium	0.27	<	0.8	mg/kg	7440-28-0	EPA279.2/SW7841
33092019	BSSB04-02	SOIL	06/04/92	06/30/92	Vanadium	63.5		1.3	mg/kg	7440-62-2	EPA200.7/SW6010
33092019	BSSB04-02	SOIL	06/04/92	06/30/92	Zinc	33.4		1.6	mg/kg	7440-66-6	EPA200.7/SW6010
33092020	BSSB04-03	SOIL	06/04/92	06/30/92	Silver	0.56	B	1.4	mg/kg	7440-22-4	EPA200.7/SW6010
33092020	BSSB04-03	SOIL	06/04/92	06/30/92	Aluminum	22000		7.6	mg/kg	7429-90-5	EPA200.7/SW6010
33092020	BSSB04-03	SOIL	06/04/92	07/02/92	Arsenic	6.2		0.7	mg/kg	7440-38-2	EPA206.2/SW7060
33092020	BSSB04-03	SOIL	06/04/92	06/30/92	Barium	92.2		0.3	mg/kg	7440-39-3	EPA200.7/SW6010
33092020	BSSB04-03	SOIL	06/04/92	06/30/92	Beryllium	0.44	B	0.8	mg/kg	7440-41-7	EPA200.7/SW6010
33092020	BSSB04-03	SOIL	06/04/92	06/30/92	Calcium	2790	E	39.5	mg/kg	7440-70-2	EPA200.7/SW6010
33092020	BSSB04-03	SOIL	06/04/92	06/30/92	Cadmium	1.6		1.0	mg/kg	7440-43-9	EPA200.7/SW6010
33092020	BSSB04-03	SOIL	06/04/92	06/30/92	Cobalt	13.7		7.8	mg/kg	7440-48-4	EPA200.7/SW6010
33092020	BSSB04-03	SOIL	06/04/92	06/30/92	Chromium	32.4		3.3	mg/kg	7440-47-3	EPA200.7/SW6010

33092020	BSSB04-03	SOIL	06/04/92	06/30/92	Copper	16.1		1.1	mg/kg	7440-50-8	EPA200.7/SW6010
33092020	BSSB04-03	SOIL	06/04/92	06/30/92	Iron	31100	*	8.3	mg/kg	7439-89-6	EPA200.7/SW6010
33092020	BSSB04-03	SOIL	06/04/92	06/18/92	Mercury	0.06	B	0.1	mg/kg	7439-97-6	SW7471
33092020	BSSB04-03	SOIL	06/04/92	06/30/92	Potassium	468	B	148.0	mg/kg	7440-09-7	EPA200.7/SW6010
33092020	BSSB04-03	SOIL	06/04/92	06/30/92	Magnesium	5890		11.4	mg/kg	7439-95-4	EPA200.7/SW6010
33092020	BSSB04-03	SOIL	06/04/92	06/30/92	Manganese	506	*	0.8	mg/kg	7439-96-5	EPA200.7/SW6010
33092020	BSSB04-03	SOIL	06/04/92	06/30/92	Sodium	197	B	18.6	mg/kg	7440-23-5	EPA200.7/SW6010
33092020	BSSB04-03	SOIL	06/04/92	06/30/92	Nickel	27.1		7.8	mg/kg	7440-02-0	EPA200.7/SW6010
33092020	BSSB04-03	SOIL	06/04/92	07/01/92	Lead	5.4		0.6	mg/kg	7439-92-1	EPA239.2/SW7421
33092020	BSSB04-03	SOIL	06/04/92	06/30/92	Antimony	2.6	< N	11.0	mg/kg	7440-36-0	EPA200.7/SW6010
33092020	BSSB04-03	SOIL	06/04/92	07/05/92	Selenium	0.09	BW	0.4	mg/kg	7782-49-2	EPA270.2/SW7740
33092020	BSSB04-03	SOIL	06/04/92	07/01/92	Thallium	0.19	<	0.8	mg/kg	7440-28-0	EPA279.2/SW7841
33092020	BSSB04-03	SOIL	06/04/92	06/30/92	Vanadium	58.1		1.3	mg/kg	7440-62-2	EPA200.7/SW6010
33092020	BSSB04-03	SOIL	06/04/92	06/30/92	Zinc	61.0		1.6	mg/kg	7440-66-6	EPA200.7/SW6010
33092K12	BSRB-02	WATER	06/02/92	06/29/92	Silver	1.4	<	1.4	ug/L	7440-22-4	EPA200.7/SW6010
33092K12	BSRB-02	WATER	06/02/92	06/29/92	Aluminum	7.6	<	7.6	ug/L	7429-90-5	EPA200.7/SW6010
33092K12	BSRB-02	WATER	06/02/92	06/24/92	Arsenic	0.70	<	0.7	ug/L	7440-38-2	EPA206.2/SW7060
33092K12	BSRB-02	WATER	06/02/92	06/29/92	Barium	1.4	BE	0.3	ug/L	7440-39-3	EPA200.7/SW6010
33092K12	BSRB-02	WATER	06/02/92	06/29/92	Beryllium	0.80	<	0.8	ug/L	7440-41-7	EPA200.7/SW6010
33092K12	BSRB-02	WATER	06/02/92	06/29/92	Calcium	1720	B	39.5	ug/L	7440-70-2	EPA200.7/SW6010
33092K12	BSRB-02	WATER	06/02/92	06/29/92	Cadmium	1.0	<	1.0	ug/L	7440-43-9	EPA200.7/SW6010
33092K12	BSRB-02	WATER	06/02/92	06/29/92	Cobalt	7.8	<	7.8	ug/L	7440-48-4	EPA200.7/SW6010
33092K12	BSRB-02	WATER	06/02/92	06/29/92	Chromium	3.3	<	3.3	ug/L	7440-47-3	EPA200.7/SW6010
33092K12	BSRB-02	WATER	06/02/92	06/29/92	Copper	1.1	<	1.1	ug/L	7440-50-8	EPA200.7/SW6010
33092K12	BSRB-02	WATER	06/02/92	06/29/92	Iron	3780		8.3	ug/L	7439-89-6	EPA200.7/SW6010
33092K12	BSRB-02	WATER	06/02/92	06/18/92	Mercury	0.10	<	0.1	ug/L	7439-97-6	EPA245.1/SW7470
33092K12	BSRB-02	WATER	06/02/92	06/29/92	Potassium	148	<	148.0	ug/L	7440-09-7	EPA200.7/SW6010
33092K12	BSRB-02	WATER	06/02/92	06/29/92	Magnesium	18.4	B	11.4	ug/L	7439-95-4	EPA200.7/SW6010
33092K12	BSRB-02	WATER	06/02/92	06/29/92	Manganese	16.0		0.8	ug/L	7439-96-5	EPA200.7/SW6010
33092K12	BSRB-02	WATER	06/02/92	06/29/92	Sodium	676	B	18.6	ug/L	7440-23-5	EPA200.7/SW6010
33092K12	BSRB-02	WATER	06/02/92	06/29/92	Nickel	7.8	B	7.8	ug/L	7440-02-0	EPA200.7/SW6010
33092K12	BSRB-02	WATER	06/02/92	06/26/92	Lead	0.70	B	0.6	ug/L	7439-92-1	EPA239.2/SW7421
33092K12	BSRB-02	WATER	06/02/92	06/29/92	Antimony	11.0	<	11.0	ug/L	7440-36-0	EPA200.7/SW6010
33092K12	BSRB-02	WATER	06/02/92	06/26/92	Selenium	0.40	<	0.4	ug/L	7782-49-2	EPA270.2/SW7740
33092K12	BSRB-02	WATER	06/02/92	06/28/92	Thallium	0.80	<	0.8	ug/L	7440-28-0	EPA279.2/SW7841
33092K12	BSRB-02	WATER	06/02/92	06/29/92	Vanadium	1.3	<	1.3	ug/L	7440-62-2	EPA200.7/SW6010
33092K12	BSRB-02	WATER	06/02/92	06/29/92	Zinc	26.9		1.6	ug/L	7440-66-6	EPA200.7/SW6010
33092K13	BSRB-01	WATER	06/04/92	06/29/92	Silver	1.4	<	1.4	ug/L	7440-22-4	EPA200.7/SW6010
33092K13	BSRB-01	WATER	06/04/92	06/29/92	Aluminum	7.6	<	7.6	ug/L	7429-90-5	EPA200.7/SW6010
33092K13	BSRB-01	WATER	06/04/92	06/24/92	Arsenic	0.90	B	0.7	ug/L	7440-38-2	EPA206.2/SW7060
33092K13	BSRB-01	WATER	06/04/92	06/29/92	Barium	0.65	BE	0.3	ug/L	7440-39-3	EPA200.7/SW6010
33092K13	BSRB-01	WATER	06/04/92	06/29/92	Beryllium	0.80	<	0.8	ug/L	7440-41-7	EPA200.7/SW6010
33092K13	BSRB-01	WATER	06/04/92	06/29/92	Calcium	124	B	39.5	ug/L	7440-70-2	EPA200.7/SW6010
33092K13	BSRB-01	WATER	06/04/92	06/29/92	Cadmium	1.0	<	1.0	ug/L	7440-43-9	EPA200.7/SW6010
33092K13	BSRB-01	WATER	06/04/92	06/29/92	Cobalt	7.8	<	7.8	ug/L	7440-48-4	EPA200.7/SW6010

33092K13	BSRB-01	WATER	06/04/92	06/29/92	Chromium	3.3	<	3.3	ug/L	7440-47-3	EPA200.7/SW6010
33092K13	BSRB-01	WATER	06/04/92	06/29/92	Copper	1.1	<	1.1	ug/L	7440-50-8	EPA200.7/SW6010
33092K13	BSRB-01	WATER	06/04/92	06/29/92	Iron	22.4	B	8.3	ug/L	7439-89-6	EPA200.7/SW6010
33092K13	BSRB-01	WATER	06/04/92	06/18/92	Mercury	0.10	<	0.1	ug/L	7439-97-6	EPA245.1/SW7470
33092K13	BSRB-01	WATER	06/04/92	06/29/92	Potassium	148	<	148.0	ug/L	7440-09-7	EPA200.7/SW6010
33092K13	BSRB-01	WATER	06/04/92	06/29/92	Magnesium	11.4	<	11.4	ug/L	7439-95-4	EPA200.7/SW6010
33092K13	BSRB-01	WATER	06/04/92	06/29/92	Manganese	1.2	B	0.8	ug/L	7439-96-5	EPA200.7/SW6010
33092K13	BSRB-01	WATER	06/04/92	06/29/92	Sodium	391	B	18.6	ug/L	7440-23-5	EPA200.7/SW6010
33092K13	BSRB-01	WATER	06/04/92	06/29/92	Nickel	7.8	<	7.8	ug/L	7440-02-0	EPA200.7/SW6010
33092K13	BSRB-01	WATER	06/04/92	06/26/92	Lead	0.60	<	0.6	ug/L	7439-92-1	EPA239.2/SW7421
33092K13	BSRB-01	WATER	06/04/92	06/29/92	Antimony	11.0	<	11.0	ug/L	7440-36-0	EPA200.7/SW6010
33092K13	BSRB-01	WATER	06/04/92	06/26/92	Selenium	0.40	<	0.4	ug/L	7782-49-2	EPA270.2/SW7740
33092K13	BSRB-01	WATER	06/04/92	06/28/92	Thallium	0.80	<	0.8	ug/L	7440-28-0	EPA279.2/SW7841
33092K13	BSRB-01	WATER	06/04/92	06/29/92	Vanadium	1.3	<	1.3	ug/L	7440-62-2	EPA200.7/SW6010
33092K13	BSRB-01	WATER	06/04/92	06/29/92	Zinc	1.6	B	1.6	ug/L	7440-66-6	EPA200.7/SW6010
33092M21	Matrix Spike	SOIL	06/04/92	06/30/92	Silver	86.0		N/A	%rec	7440-22-4	EPA200.7/SW6010
33092M21	Matrix Spike	SOIL	06/04/92	07/02/92	Arsenic	90.7		N/A	%rec	7440-38-2	EPA206.2/SW7060
33092M21	Matrix Spike	SOIL	06/04/92	06/30/92	Barium	104.9		N/A	%rec	7440-39-3	EPA200.7/SW6010
33092M21	Matrix Spike	SOIL	06/04/92	06/30/92	Beryllium	89.6		N/A	%rec	7440-41-7	EPA200.7/SW6010
33092M21	Matrix Spike	SOIL	06/04/92	06/30/92	Cadmium	101.5		N/A	%rec	7440-43-9	EPA200.7/SW6010
33092M21	Matrix Spike	SOIL	06/04/92	06/30/92	Cobalt	98.4		N/A	%rec	7440-48-4	EPA200.7/SW6010
33092M21	Matrix Spike	SOIL	06/04/92	06/30/92	Chromium	107.2		N/A	%rec	7440-47-3	EPA200.7/SW6010
33092M21	Matrix Spike	SOIL	06/04/92	06/30/92	Copper	97.2		N/A	%rec	7440-50-8	EPA200.7/SW6010
33092M21	Matrix Spike	SOIL	06/04/92	06/18/92	Mercury	101.8		N/A	%rec	7439-97-6	SW7471
33092M21	Matrix Spike	SOIL	06/04/92	06/30/92	Manganese	81.0		N/A	%rec	7439-96-5	EPA200.7/SW6010
33092M21	Matrix Spike	SOIL	06/04/92	06/30/92	Nickel	97.3		N/A	%rec	7440-02-0	EPA200.7/SW6010
33092M21	Matrix Spike	SOIL	06/04/92	07/01/92	Lead	91.5		N/A	%rec	7439-92-1	EPA239.2/SW7421
33092M21	Matrix Spike	SOIL	06/04/92	06/30/92	Antimony	67.7		N/A	%rec	7440-36-0	EPA200.7/SW6010
33092M21	Matrix Spike	SOIL	06/04/92	07/05/92	Selenium	91.0		N/A	%rec	7782-49-2	EPA270.2/SW7740
33092M21	Matrix Spike	SOIL	06/04/92	07/01/92	Thallium	82.0		N/A	%rec	7440-28-0	EPA279.2/SW7841
33092M21	Matrix Spike	SOIL	06/04/92	06/30/92	Vanadium	98.5		N/A	%rec	7440-62-2	EPA200.7/SW6010
33092M21	Matrix Spike	SOIL	06/04/92	06/30/92	Zinc	90.0		N/A	%rec	7440-66-6	EPA200.7/SW6010
33092P22	DUPLICATE	SOIL	06/04/92	06/30/92	Silver	29.0		N/A	RPD	7440-22-4	EPA200.7/SW6010
33092P22	DUPLICATE	SOIL	06/04/92	06/30/92	Aluminum	5.0		N/A	RPD	7429-90-5	EPA200.7/SW6010
33092P22	DUPLICATE	SOIL	06/04/92	07/02/92	Arsenic	1.3		N/A	RPD	7440-38-2	EPA206.2/SW7060
33092P22	DUPLICATE	SOIL	06/04/92	06/30/92	Barium	9.0		N/A	RPD	7440-39-3	EPA200.7/SW6010
33092P22	DUPLICATE	SOIL	06/04/92	06/30/92	Beryllium	200.0		N/A	RPD	7440-41-7	EPA200.7/SW6010
33092P22	DUPLICATE	SOIL	06/04/92	06/30/92	Calcium	18.6		N/A	RPD	7440-70-2	EPA200.7/SW6010
33092P22	DUPLICATE	SOIL	06/04/92	06/30/92	Cadmium	26.4		N/A	RPD	7440-43-9	EPA200.7/SW6010
33092P22	DUPLICATE	SOIL	06/04/92	06/30/92	Cobalt	200.0		N/A	RPD	7440-48-4	EPA200.7/SW6010
33092P22	DUPLICATE	SOIL	06/04/92	06/30/92	Chromium	17.0		N/A	RPD	7440-47-3	EPA200.7/SW6010
33092P22	DUPLICATE	SOIL	06/04/92	06/30/92	Copper	18.3		N/A	RPD	7440-50-8	EPA200.7/SW6010
33092P22	DUPLICATE	SOIL	06/04/92	06/30/92	Iron	27.3	*	N/A	RPD	7439-89-6	EPA200.7/SW6010
33092P22	DUPLICATE	SOIL	06/04/92	06/18/92	Mercury	12.2		N/A	RPD	7439-97-6	SW7471
33092P22	DUPLICATE	SOIL	06/04/92	06/30/92	Potassium	16.4		N/A	RPD	7440-09-7	EPA200.7/SW6010

33092P22	DUPLICATE	SOIL	06/04/92	06/30/92	Magnesium	20.9		N/A	RPD	7439-95-4	EPA200.7/SW6010
33092P22	DUPLICATE	SOIL	06/04/92	06/30/92	Manganese	50.0	*	N/A	RPD	7439-96-5	EPA200.7/SW6010
33092P22	DUPLICATE	SOIL	06/04/92	06/30/92	Sodium	3.5		N/A	RPD	7440-23-5	EPA200.7/SW6010
33092P22	DUPLICATE	SOIL	06/04/92	06/30/92	Nickel	4.8		N/A	RPD	7440-02-0	EPA200.7/SW6010
33092P22	DUPLICATE	SOIL	06/04/92	07/01/92	Lead	7.2		N/A	RPD	7439-92-1	EPA239.2/SW7421
33092P22	DUPLICATE	SOIL	06/04/92	06/30/92	Antimony		NC	N/A	RPD	7440-36-0	EPA200.7/SW6010
33092P22	DUPLICATE	SOIL	06/04/92	07/05/92	Selenium	13.1		N/A	RPD	7782-49-2	EPA270.2/SW7740
33092P22	DUPLICATE	SOIL	06/04/92	07/01/92	Thallium		NC	N/A	RPD	7440-28-0	EPA279.2/SW7841
33092P22	DUPLICATE	SOIL	06/04/92	06/30/92	Vanadium	27.1		N/A	RPD	7440-62-2	EPA200.7/SW6010
33092P22	DUPLICATE	SOIL	06/04/92	06/30/92	Zinc	14.3		N/A	RPD	7440-66-6	EPA200.7/SW6010
33092ZS1	Method Blank	Soil Blank	06/10/92	06/30/92	Silver	0.280	<	1.4	mg/kg	7440-22-4	EPA200.7/SW6010
33092ZS1	Method Blank	Soil Blank	06/10/92	06/30/92	Aluminum	-3.429	B	7.6	mg/kg	7429-90-5	EPA200.7/SW6010
33092ZS1	Method Blank	Soil Blank	06/10/92	07/02/92	Arsenic	0.140	<	0.7	mg/kg	7440-38-2	EPA206.2/SW7060
33092ZS1	Method Blank	Soil Blank	06/10/92	06/30/92	Barium	0.098	B	0.3	mg/kg	7440-39-3	EPA200.7/SW6010
33092ZS1	Method Blank	Soil Blank	06/10/92	06/30/92	Beryllium	0.160	<	0.8	mg/kg	7440-41-7	EPA200.7/SW6010
33092ZS1	Method Blank	Soil Blank	06/10/92	06/30/92	Calcium	8.459	B	39.5	mg/kg	7440-70-2	EPA200.7/SW6010
33092ZS1	Method Blank	Soil Blank	06/10/92	06/30/92	Cadmium	0.200	<	1.0	mg/kg	7440-43-9	EPA200.7/SW6010
33092ZS1	Method Blank	Soil Blank	06/10/92	06/30/92	Cobalt	1.560	<	7.8	mg/kg	7440-48-4	EPA200.7/SW6010
33092ZS1	Method Blank	Soil Blank	06/10/92	06/30/92	Chromium	0.660	<	3.3	mg/kg	7440-47-3	EPA200.7/SW6010
33092ZS1	Method Blank	Soil Blank	06/10/92	06/30/92	Copper	0.220	<	1.1	mg/kg	7440-50-8	EPA200.7/SW6010
33092ZS1	Method Blank	Soil Blank	06/10/92	06/30/92	Iron	1.660	<	8.3	mg/kg	7439-89-6	EPA200.7/SW6010
33092ZS1	Method Blank	Soil Blank	06/10/92	06/18/92	Mercury	0.028	<	0.1	mg/kg	7439-97-6	SW7471
33092ZS1	Method Blank	Soil Blank	06/10/92	06/30/92	Potassium	29.600	<	148.0	mg/kg	7440-09-7	EPA200.7/SW6010
33092ZS1	Method Blank	Soil Blank	06/10/92	06/30/92	Magnesium	2.280	<	11.4	mg/kg	7439-95-4	EPA200.7/SW6010
33092ZS1	Method Blank	Soil Blank	06/10/92	06/30/92	Manganese	0.160	<	0.8	mg/kg	7439-96-5	EPA200.7/SW6010
33092ZS1	Method Blank	Soil Blank	06/10/92	06/30/92	Sodium	4.647	B	18.6	mg/kg	7440-23-5	EPA200.7/SW6010
33092ZS1	Method Blank	Soil Blank	06/10/92	06/30/92	Nickel	1.560	<	7.8	mg/kg	7440-02-0	EPA200.7/SW6010
33092ZS1	Method Blank	Soil Blank	06/10/92	07/01/92	Lead	0.120	<	0.6	mg/kg	7439-92-1	EPA239.2/SW7421
33092ZS1	Method Blank	Soil Blank	06/10/92	06/30/92	Antimony	2.200	<	11.0	mg/kg	7440-36-0	EPA200.7/SW6010
33092ZS1	Method Blank	Soil Blank	06/10/92	07/05/92	Selenium	0.080	<	0.4	mg/kg	7782-49-2	EPA270.2/SW7740
33092ZS1	Method Blank	Soil Blank	06/10/92	07/01/92	Thallium	0.160	<	0.8	mg/kg	7440-28-0	EPA279.2/SW7841
33092ZS1	Method Blank	Soil Blank	06/10/92	06/30/92	Vanadium	0.260	<	1.3	mg/kg	7440-62-2	EPA200.7/SW6010
33092ZS1	Method Blank	Soil Blank	06/10/92	06/30/92	Zinc	0.533	B	1.6	mg/kg	7440-66-6	EPA200.7/SW6010
33092ZW1	Method Blank	Water Blank	06/10/92	06/29/92	Silver	-1.780	B	1.4	ug/L	7440-22-4	EPA200.7/SW6010
33092ZW1	Method Blank	Water Blank	06/10/92	06/29/92	Aluminum	-15.860		7.6	ug/L	7429-90-5	EPA200.7/SW6010
33092ZW1	Method Blank	Water Blank	06/10/92	06/24/92	Arsenic	0.700	<	0.7	ug/L	7440-38-2	EPA206.2/SW7060
33092ZW1	Method Blank	Water Blank	06/10/92	06/29/92	Barium	0.300	<	0.3	ug/L	7440-39-3	EPA200.7/SW6010
33092ZW1	Method Blank	Water Blank	06/10/92	06/29/92	Beryllium	0.800	<	0.8	ug/L	7440-41-7	EPA200.7/SW6010
33092ZW1	Method Blank	Water Blank	06/10/92	06/29/92	Calcium	47.630	B	39.5	ug/L	7440-70-2	EPA200.7/SW6010
33092ZW1	Method Blank	Water Blank	06/10/92	06/29/92	Cadmium	-1.570	B	1.0	ug/L	7440-43-9	EPA200.7/SW6010
33092ZW1	Method Blank	Water Blank	06/10/92	06/29/92	Cobalt	7.800	<	7.8	ug/L	7440-48-4	EPA200.7/SW6010
33092ZW1	Method Blank	Water Blank	06/10/92	06/29/92	Chromium	3.300	<	3.3	ug/L	7440-47-3	EPA200.7/SW6010
33092ZW1	Method Blank	Water Blank	06/10/92	06/29/92	Copper	1.100	<	1.1	ug/L	7440-50-8	EPA200.7/SW6010
33092ZW1	Method Blank	Water Blank	06/10/92	06/29/92	Iron	8.300	<	8.3	ug/L	7439-89-6	EPA200.7/SW6010
33092ZW1	Method Blank	Water Blank	06/10/92	06/18/92	Mercury	0.100	<	0.1	ug/L	7439-97-6	EPA245.1/SW7470

33092ZW1	Method Blank	Water Blank	06/10/92	06/29/92	Potassium	148.000	<	148.0	ug/L	7440-09-7	EPA200.7/SW6010
33092ZW1	Method Blank	Water Blank	06/10/92	06/29/92	Magnesium	11.400	<	11.4	ug/L	7439-95-4	EPA200.7/SW6010
33092ZW1	Method Blank	Water Blank	06/10/92	06/29/92	Manganese	0.800	<	0.8	ug/L	7439-96-5	EPA200.7/SW6010
33092ZW1	Method Blank	Water Blank	06/10/92	06/29/92	Sodium	43.460	B	18.6	ug/L	7440-23-5	EPA200.7/SW6010
33092ZW1	Method Blank	Water Blank	06/10/92	06/29/92	Nickel	7.800	<	7.8	ug/L	7440-02-0	EPA200.7/SW6010
33092ZW1	Method Blank	Water Blank	06/10/92	06/26/92	Lead	0.600	<	0.6	ug/L	7439-92-1	EPA239.2/SW7421
33092ZW1	Method Blank	Water Blank	06/10/92	06/29/92	Antimony	11.000	<	11.0	ug/L	7440-36-0	EPA200.7/SW6010
33092ZW1	Method Blank	Water Blank	06/10/92	06/26/92	Selenium	0.400	<	0.4	ug/L	7782-49-2	EPA270.2/SW7740
33092ZW1	Method Blank	Water Blank	06/10/92	06/28/92	Thallium	0.800	<	0.8	ug/L	7440-28-0	EPA279.2/SW7841
33092ZW1	Method Blank	Water Blank	06/10/92	06/29/92	Vanadium	1.300	<	1.3	ug/L	7440-62-2	EPA200.7/SW6010
33092ZW1	Method Blank	Water Blank	06/10/92	06/29/92	Zinc	1.600	<	1.6	ug/L	7440-66-6	EPA200.7/SW6010
33093001	BSSB07-01	SOIL	06/02/92	06/30/92	Silver	1.1	B	1.4	mg/kg	7440-22-4	EPA200.7/SW6010
33093001	BSSB07-01	SOIL	06/02/92	06/30/92	Aluminum	24900		7.6	mg/kg	7429-90-5	EPA200.7/SW6010
33093001	BSSB07-01	SOIL	06/02/92	07/06/92	Arsenic	8.1		0.7	mg/kg	7440-38-2	EPA206.2/SW7060
33093001	BSSB07-01	SOIL	06/02/92	06/30/92	Barium	113		0.3	mg/kg	7440-39-3	EPA200.7/SW6010
33093001	BSSB07-01	SOIL	06/02/92	06/30/92	Beryllium	0.41	B	0.8	mg/kg	7440-41-7	EPA200.7/SW6010
33093001	BSSB07-01	SOIL	06/02/92	06/30/92	Calcium	2580	E	39.5	mg/kg	7440-70-2	EPA200.7/SW6010
33093001	BSSB07-01	SOIL	06/02/92	06/30/92	Cadmium	1.5		1.0	mg/kg	7440-43-9	EPA200.7/SW6010
33093001	BSSB07-01	SOIL	06/02/92	06/30/92	Cobalt	12.6	B	7.8	mg/kg	7440-48-4	EPA200.7/SW6010
33093001	BSSB07-01	SOIL	06/02/92	06/30/92	Chromium	34.3		3.3	mg/kg	7440-47-3	EPA200.7/SW6010
33093001	BSSB07-01	SOIL	06/02/92	06/30/92	Copper	23.3		1.1	mg/kg	7440-50-8	EPA200.7/SW6010
33093001	BSSB07-01	SOIL	06/02/92	06/30/92	Iron	28600		8.3	mg/kg	7439-89-6	EPA200.7/SW6010
33093001	BSSB07-01	SOIL	06/02/92	06/30/92	Mercury	0.10		0.1	mg/kg	7439-97-6	SW7471
33093001	BSSB07-01	SOIL	06/02/92	06/30/92	Potassium	400	B	148.0	mg/kg	7440-09-7	EPA200.7/SW6010
33093001	BSSB07-01	SOIL	06/02/92	06/30/92	Magnesium	6180		11.4	mg/kg	7439-95-4	EPA200.7/SW6010
33093001	BSSB07-01	SOIL	06/02/92	06/30/92	Manganese	421		0.8	mg/kg	7439-96-5	EPA200.7/SW6010
33093001	BSSB07-01	SOIL	06/02/92	06/30/92	Sodium	242	B	18.6	mg/kg	7440-23-5	EPA200.7/SW6010
33093001	BSSB07-01	SOIL	06/02/92	06/30/92	Nickel	26.1		7.8	mg/kg	7440-02-0	EPA200.7/SW6010
33093001	BSSB07-01	SOIL	06/02/92	07/02/92	Lead	6.7		0.6	mg/kg	7439-92-1	EPA239.2/SW7421
33093001	BSSB07-01	SOIL	06/02/92	06/30/92	Antimony	3.4	BN	11.0	mg/kg	7440-36-0	EPA200.7/SW6010
33093001	BSSB07-01	SOIL	06/02/92	07/06/92	Selenium	0.26	BWN	0.4	mg/kg	7782-49-2	EPA270.2/SW7740
33093001	BSSB07-01	SOIL	06/02/92	07/06/92	Thallium	0.21	<	0.8	mg/kg	7440-28-0	EPA279.2/SW7841
33093001	BSSB07-01	SOIL	06/02/92	06/30/92	Vanadium	61.5		1.3	mg/kg	7440-62-2	EPA200.7/SW6010
33093001	BSSB07-01	SOIL	06/02/92	06/30/92	Zinc	54.6		1.6	mg/kg	7440-66-6	EPA200.7/SW6010
33093002	BSSB07-02	SOIL	06/02/92	06/30/92	Silver	0.32	<	1.4	mg/kg	7440-22-4	EPA200.7/SW6010
33093002	BSSB07-02	SOIL	06/02/92	06/30/92	Aluminum	17500		7.6	mg/kg	7429-90-5	EPA200.7/SW6010
33093002	BSSB07-02	SOIL	06/02/92	07/06/92	Arsenic	4.7		0.7	mg/kg	7440-38-2	EPA206.2/SW7060
33093002	BSSB07-02	SOIL	06/02/92	06/30/92	Barium	75.9		0.3	mg/kg	7440-39-3	EPA200.7/SW6010
33093002	BSSB07-02	SOIL	06/02/92	06/30/92	Beryllium	0.38	B	0.8	mg/kg	7440-41-7	EPA200.7/SW6010
33093002	BSSB07-02	SOIL	06/02/92	06/30/92	Calcium	4040	E	39.5	mg/kg	7440-70-2	EPA200.7/SW6010
33093002	BSSB07-02	SOIL	06/02/92	06/30/92	Cadmium	1.7		1.0	mg/kg	7440-43-9	EPA200.7/SW6010
33093002	BSSB07-02	SOIL	06/02/92	06/30/92	Cobalt	11.7		7.8	mg/kg	7440-48-4	EPA200.7/SW6010
33093002	BSSB07-02	SOIL	06/02/92	06/30/92	Chromium	30.0		3.3	mg/kg	7440-47-3	EPA200.7/SW6010
33093002	BSSB07-02	SOIL	06/02/92	06/30/92	Copper	21.9		1.1	mg/kg	7440-50-8	EPA200.7/SW6010

33093002	BSSB07-02	SOIL	06/02/92	06/30/92	Iron	23800		8.3	mg/kg	7439-89-6	EPA200.7/SW6010
33093002	BSSB07-02	SOIL	06/02/92	06/30/92	Mercury	0.07		0.1	mg/kg	7439-97-6	SW7471
33093002	BSSB07-02	SOIL	06/02/92	06/30/92	Potassium	493	B	148.0	mg/kg	7440-09-7	EPA200.7/SW6010
33093002	BSSB07-02	SOIL	06/02/92	06/30/92	Magnesium	7250		11.4	mg/kg	7439-95-4	EPA200.7/SW6010
33093002	BSSB07-02	SOIL	06/02/92	06/30/92	Manganese	498		0.8	mg/kg	7439-96-5	EPA200.7/SW6010
33093002	BSSB07-02	SOIL	06/02/92	06/30/92	Sodium	247	B	18.6	mg/kg	7440-23-5	EPA200.7/SW6010
33093002	BSSB07-02	SOIL	06/02/92	06/30/92	Nickel	32.5		7.8	mg/kg	7440-02-0	EPA200.7/SW6010
33093002	BSSB07-02	SOIL	06/02/92	07/02/92	Lead	4.1		0.6	mg/kg	7439-92-1	EPA239.2/SW7421
33093002	BSSB07-02	SOIL	06/02/92	06/30/92	Antimony	2.5	< N	11.0	mg/kg	7440-36-0	EPA200.7/SW6010
33093002	BSSB07-02	SOIL	06/02/92	07/06/92	Selenium	0.09	< N	0.4	mg/kg	7782-49-2	EPA270.2/SW7740
33093002	BSSB07-02	SOIL	06/02/92	07/06/92	Thallium	0.18	<	0.8	mg/kg	7440-28-0	EPA279.2/SW7841
33093002	BSSB07-02	SOIL	06/02/92	06/30/92	Vanadium	50.2		1.3	mg/kg	7440-62-2	EPA200.7/SW6010
33093002	BSSB07-02	SOIL	06/02/92	06/30/92	Zinc	41.7		1.6	mg/kg	7440-66-6	EPA200.7/SW6010
33093003	BSSB07-03	SOIL	06/02/92	06/30/92	Silver	0.31	<	1.4	mg/kg	7440-22-4	EPA200.7/SW6010
33093003	BSSB07-03	SOIL	06/02/92	06/30/92	Aluminum	10600		7.6	mg/kg	7429-90-5	EPA200.7/SW6010
33093003	BSSB07-03	SOIL	06/02/92	07/06/92	Arsenic	4.2		0.7	mg/kg	7440-38-2	EPA206.2/SW7060
33093003	BSSB07-03	SOIL	06/02/92	06/30/92	Barium	38.8	B	0.3	mg/kg	7440-39-3	EPA200.7/SW6010
33093003	BSSB07-03	SOIL	06/02/92	06/30/92	Beryllium	0.32	B	0.8	mg/kg	7440-41-7	EPA200.7/SW6010
33093003	BSSB07-03	SOIL	06/02/92	06/30/92	Calcium	4980	E	39.5	mg/kg	7440-70-2	EPA200.7/SW6010
33093003	BSSB07-03	SOIL	06/02/92	06/30/92	Cadmium	1.5		1.0	mg/kg	7440-43-9	EPA200.7/SW6010
33093003	BSSB07-03	SOIL	06/02/92	06/30/92	Cobalt	8.6	B	7.8	mg/kg	7440-48-4	EPA200.7/SW6010
33093003	BSSB07-03	SOIL	06/02/92	06/30/92	Chromium	24.8		3.3	mg/kg	7440-47-3	EPA200.7/SW6010
33093003	BSSB07-03	SOIL	06/02/92	06/30/92	Copper	26.8		1.1	mg/kg	7440-50-8	EPA200.7/SW6010
33093003	BSSB07-03	SOIL	06/02/92	06/30/92	Iron	19900		8.3	mg/kg	7439-89-6	EPA200.7/SW6010
33093003	BSSB07-03	SOIL	06/02/92	06/30/92	Mercury	0.11		0.1	mg/kg	7439-97-6	SW7471
33093003	BSSB07-03	SOIL	06/02/92	06/30/92	Potassium	590	B	148.0	mg/kg	7440-09-7	EPA200.7/SW6010
33093003	BSSB07-03	SOIL	06/02/92	06/30/92	Magnesium	6410		11.4	mg/kg	7439-95-4	EPA200.7/SW6010
33093003	BSSB07-03	SOIL	06/02/92	06/30/92	Manganese	409		0.8	mg/kg	7439-96-5	EPA200.7/SW6010
33093003	BSSB07-03	SOIL	06/02/92	06/30/92	Sodium	218	B	18.6	mg/kg	7440-23-5	EPA200.7/SW6010
33093003	BSSB07-03	SOIL	06/02/92	06/30/92	Nickel	26.9		7.8	mg/kg	7440-02-0	EPA200.7/SW6010
33093003	BSSB07-03	SOIL	06/02/92	07/02/92	Lead	7.6		0.6	mg/kg	7439-92-1	EPA239.2/SW7421
33093003	BSSB07-03	SOIL	06/02/92	06/30/92	Antimony	2.4	< N	11.0	mg/kg	7440-36-0	EPA200.7/SW6010
33093003	BSSB07-03	SOIL	06/02/92	07/06/92	Selenium	0.40	BN	0.4	mg/kg	7782-49-2	EPA270.2/SW7740
33093003	BSSB07-03	SOIL	06/02/92	07/06/92	Thallium	0.18	<	0.8	mg/kg	7440-28-0	EPA279.2/SW7841
33093003	BSSB07-03	SOIL	06/02/92	06/30/92	Vanadium	38.8		1.3	mg/kg	7440-62-2	EPA200.7/SW6010
33093003	BSSB07-03	SOIL	06/02/92	06/30/92	Zinc	40.7		1.6	mg/kg	7440-66-6	EPA200.7/SW6010
33093004	BSSB07-04	SOIL	06/02/92	06/30/92	Silver	0.33	<	1.4	mg/kg	7440-22-4	EPA200.7/SW6010
33093004	BSSB07-04	SOIL	06/02/92	06/30/92	Aluminum	13600		7.6	mg/kg	7429-90-5	EPA200.7/SW6010
33093004	BSSB07-04	SOIL	06/02/92	07/06/92	Arsenic	6.7		0.7	mg/kg	7440-38-2	EPA206.2/SW7060
33093004	BSSB07-04	SOIL	06/02/92	06/30/92	Barium	59.6		0.3	mg/kg	7440-39-3	EPA200.7/SW6010
33093004	BSSB07-04	SOIL	06/02/92	06/30/92	Beryllium	0.33	B	0.8	mg/kg	7440-41-7	EPA200.7/SW6010
33093004	BSSB07-04	SOIL	06/02/92	06/30/92	Calcium	5940	E	39.5	mg/kg	7440-70-2	EPA200.7/SW6010
33093004	BSSB07-04	SOIL	06/02/92	06/30/92	Cadmium	1.3		1.0	mg/kg	7440-43-9	EPA200.7/SW6010
33093004	BSSB07-04	SOIL	06/02/92	06/30/92	Cobalt	11.5	B	7.8	mg/kg	7440-48-4	EPA200.7/SW6010
33093004	BSSB07-04	SOIL	06/02/92	06/30/92	Chromium	26.8		3.3	mg/kg	7440-47-3	EPA200.7/SW6010

33093004	BSSB07-04	SOIL	06/02/92	06/30/92	Copper	30.0		1.1	mg/kg	7440-50-8	EPA200.7/SW6010
33093004	BSSB07-04	SOIL	06/02/92	06/30/92	Iron	25500		8.3	mg/kg	7439-89-6	EPA200.7/SW6010
33093004	BSSB07-04	SOIL	06/02/92	06/30/92	Mercury	0.13		0.1	mg/kg	7439-97-6	SW7471
33093004	BSSB07-04	SOIL	06/02/92	06/30/92	Potassium	842	B	148.0	mg/kg	7440-09-7	EPA200.7/SW6010
33093004	BSSB07-04	SOIL	06/02/92	06/30/92	Magnesium	8000		11.4	mg/kg	7439-95-4	EPA200.7/SW6010
33093004	BSSB07-04	SOIL	06/02/92	06/30/92	Manganese	533		0.8	mg/kg	7439-96-5	EPA200.7/SW6010
33093004	BSSB07-04	SOIL	06/02/92	06/30/92	Sodium	306	B	18.6	mg/kg	7440-23-5	EPA200.7/SW6010
33093004	BSSB07-04	SOIL	06/02/92	06/30/92	Nickel	30.3		7.8	mg/kg	7440-02-0	EPA200.7/SW6010
33093004	BSSB07-04	SOIL	06/02/92	07/02/92	Lead	6.5		0.6	mg/kg	7439-92-1	EPA239.2/SW7421
33093004	BSSB07-04	SOIL	06/02/92	06/30/92	Antimony	2.6	< N	11.0	mg/kg	7440-36-0	EPA200.7/SW6010
33093004	BSSB07-04	SOIL	06/02/92	07/06/92	Selenium	0.12	BWN	0.4	mg/kg	7782-49-2	EPA270.2/SW7740
33093004	BSSB07-04	SOIL	06/02/92	07/06/92	Thallium	0.19	<	0.8	mg/kg	7440-28-0	EPA279.2/SW7841
33093004	BSSB07-04	SOIL	06/02/92	06/30/92	Vanadium	42.8		1.3	mg/kg	7440-62-2	EPA200.7/SW6010
33093004	BSSB07-04	SOIL	06/02/92	06/30/92	Zinc	60.9		1.6	mg/kg	7440-66-6	EPA200.7/SW6010
33093005	BSSB08-01	SOIL	06/04/92	06/30/92	Silver	0.48	<	1.4	mg/kg	7440-22-4	EPA200.7/SW6010
33093005	BSSB08-01	SOIL	06/04/92	06/30/92	Aluminum	8920		7.6	mg/kg	7429-90-5	EPA200.7/SW6010
33093005	BSSB08-01	SOIL	06/04/92	07/06/92	Arsenic	4.4		0.7	mg/kg	7440-38-2	EPA206.2/SW7060
33093005	BSSB08-01	SOIL	06/04/92	06/30/92	Barium	132		0.3	mg/kg	7440-39-3	EPA200.7/SW6010
33093005	BSSB08-01	SOIL	06/04/92	06/30/92	Beryllium	0.37	B	0.8	mg/kg	7440-41-7	EPA200.7/SW6010
33093005	BSSB08-01	SOIL	06/04/92	06/30/92	Calcium	1330	BE	39.5	mg/kg	7440-70-2	EPA200.7/SW6010
33093005	BSSB08-01	SOIL	06/04/92	06/30/92	Cadmium	0.34	<	1.0	mg/kg	7440-43-9	EPA200.7/SW6010
33093005	BSSB08-01	SOIL	06/04/92	06/30/92	Cobalt	2.7	<	7.8	mg/kg	7440-48-4	EPA200.7/SW6010
33093005	BSSB08-01	SOIL	06/04/92	06/30/92	Chromium	9.6		3.3	mg/kg	7440-47-3	EPA200.7/SW6010
33093005	BSSB08-01	SOIL	06/04/92	06/30/92	Copper	15.0		1.1	mg/kg	7440-50-8	EPA200.7/SW6010
33093005	BSSB08-01	SOIL	06/04/92	06/30/92	Iron	11600		8.3	mg/kg	7439-89-6	EPA200.7/SW6010
33093005	BSSB08-01	SOIL	06/04/92	06/30/92	Mercury	0.10		0.1	mg/kg	7439-97-6	SW7471
33093005	BSSB08-01	SOIL	06/04/92	06/30/92	Potassium	259	B	148.0	mg/kg	7440-09-7	EPA200.7/SW6010
33093005	BSSB08-01	SOIL	06/04/92	06/30/92	Magnesium	791	B	11.4	mg/kg	7439-95-4	EPA200.7/SW6010
33093005	BSSB08-01	SOIL	06/04/92	06/30/92	Manganese	69.4		0.8	mg/kg	7439-96-5	EPA200.7/SW6010
33093005	BSSB08-01	SOIL	06/04/92	06/30/92	Sodium	355	B	18.6	mg/kg	7440-23-5	EPA200.7/SW6010
33093005	BSSB08-01	SOIL	06/04/92	06/30/92	Nickel	2.7	<	7.8	mg/kg	7440-02-0	EPA200.7/SW6010
33093005	BSSB08-01	SOIL	06/04/92	07/02/92	Lead	6.1		0.6	mg/kg	7439-92-1	EPA239.2/SW7421
33093005	BSSB08-01	SOIL	06/04/92	06/30/92	Antimony	3.8	< N	11.0	mg/kg	7440-36-0	EPA200.7/SW6010
33093005	BSSB08-01	SOIL	06/04/92	07/06/92	Selenium	0.23	BN	0.4	mg/kg	7782-49-2	EPA270.2/SW7740
33093005	BSSB08-01	SOIL	06/04/92	07/06/92	Thallium	0.27	<	0.8	mg/kg	7440-28-0	EPA279.2/SW7841
33093005	BSSB08-01	SOIL	06/04/92	06/30/92	Vanadium	24.1		1.3	mg/kg	7440-62-2	EPA200.7/SW6010
33093005	BSSB08-01	SOIL	06/04/92	06/30/92	Zinc	16.8		1.6	mg/kg	7440-66-6	EPA200.7/SW6010
33093006	BSSB08-02	SOIL	06/04/92	06/30/92	Silver	0.45	B	1.4	mg/kg	7440-22-4	EPA200.7/SW6010
33093006	BSSB08-02	SOIL	06/04/92	06/30/92	Aluminum	19700		7.6	mg/kg	7429-90-5	EPA200.7/SW6010
33093006	BSSB08-02	SOIL	06/04/92	07/06/92	Arsenic	6.1		0.7	mg/kg	7440-38-2	EPA206.2/SW7060
33093006	BSSB08-02	SOIL	06/04/92	06/30/92	Barium	108		0.3	mg/kg	7440-39-3	EPA200.7/SW6010
33093006	BSSB08-02	SOIL	06/04/92	06/30/92	Beryllium	0.46	B	0.8	mg/kg	7440-41-7	EPA200.7/SW6010
33093006	BSSB08-02	SOIL	06/04/92	06/30/92	Calcium	1640	E	39.5	mg/kg	7440-70-2	EPA200.7/SW6010
33093006	BSSB08-02	SOIL	06/04/92	06/30/92	Cadmium	0.86	B	1.0	mg/kg	7440-43-9	EPA200.7/SW6010
33093006	BSSB08-02	SOIL	06/04/92	06/30/92	Cobalt	7.6	B	7.8	mg/kg	7440-48-4	EPA200.7/SW6010

33093006	BSSB08-02	SOIL	06/04/92	06/30/92	Chromium	18.2		3.3	mg/kg	7440-47-3	EPA200.7/SW6010
33093006	BSSB08-02	SOIL	06/04/92	06/30/92	Copper	13.9		1.1	mg/kg	7440-50-8	EPA200.7/SW6010
33093006	BSSB08-02	SOIL	06/04/92	06/30/92	Iron	20800		8.3	mg/kg	7439-89-6	EPA200.7/SW6010
33093006	BSSB08-02	SOIL	06/04/92	06/30/92	Mercury	0.07	B	0.1	mg/kg	7439-97-6	SW7471
33093006	BSSB08-02	SOIL	06/04/92	06/30/92	Potassium	342	B	148.0	mg/kg	7440-09-7	EPA200.7/SW6010
33093006	BSSB08-02	SOIL	06/04/92	06/30/92	Magnesium	2340		11.4	mg/kg	7439-95-4	EPA200.7/SW6010
33093006	BSSB08-02	SOIL	06/04/92	06/30/92	Manganese	213		0.8	mg/kg	7439-96-5	EPA200.7/SW6010
33093006	BSSB08-02	SOIL	06/04/92	06/30/92	Sodium	313	B	18.6	mg/kg	7440-23-5	EPA200.7/SW6010
33093006	BSSB08-02	SOIL	06/04/92	06/30/92	Nickel	12.5		7.8	mg/kg	7440-02-0	EPA200.7/SW6010
33093006	BSSB08-02	SOIL	06/04/92	07/02/92	Lead	6.2		0.6	mg/kg	7439-92-1	EPA239.2/SW7421
33093006	BSSB08-02	SOIL	06/04/92	06/30/92	Antimony	3.1	< N	11.0	mg/kg	7440-36-0	EPA200.7/SW6010
33093006	BSSB08-02	SOIL	06/04/92	07/06/92	Selenium	0.26	BN	0.4	mg/kg	7782-49-2	EPA270.2/SW7740
33093006	BSSB08-02	SOIL	06/04/92	07/06/92	Thallium	0.22	<	0.8	mg/kg	7440-28-0	EPA279.2/SW7841
33093006	BSSB08-02	SOIL	06/04/92	06/30/92	Vanadium	61.4		1.3	mg/kg	7440-62-2	EPA200.7/SW6010
33093006	BSSB08-02	SOIL	06/04/92	06/30/92	Zinc	34.3		1.6	mg/kg	7440-66-6	EPA200.7/SW6010
33093007	BSSB08-03	SOIL	06/04/92	06/30/92	Silver	0.74	B	1.4	mg/kg	7440-22-4	EPA200.7/SW6010
33093007	BSSB08-03	SOIL	06/04/92	06/30/92	Aluminum	19700		7.6	mg/kg	7429-90-5	EPA200.7/SW6010
33093007	BSSB08-03	SOIL	06/04/92	07/06/92	Arsenic	7.2		0.7	mg/kg	7440-38-2	EPA206.2/SW7060
33093007	BSSB08-03	SOIL	06/04/92	06/30/92	Barium	116		0.3	mg/kg	7440-39-3	EPA200.7/SW6010
33093007	BSSB08-03	SOIL	06/04/92	06/30/92	Beryllium	0.24	<	0.8	mg/kg	7440-41-7	EPA200.7/SW6010
33093007	BSSB08-03	SOIL	06/04/92	06/30/92	Calcium	1820	E	39.5	mg/kg	7440-70-2	EPA200.7/SW6010
33093007	BSSB08-03	SOIL	06/04/92	06/30/92	Cadmium	1.0	B	1.0	mg/kg	7440-43-9	EPA200.7/SW6010
33093007	BSSB08-03	SOIL	06/04/92	06/30/92	Cobalt	6.8	B	7.8	mg/kg	7440-48-4	EPA200.7/SW6010
33093007	BSSB08-03	SOIL	06/04/92	06/30/92	Chromium	19.8		3.3	mg/kg	7440-47-3	EPA200.7/SW6010
33093007	BSSB08-03	SOIL	06/04/92	06/30/92	Copper	14.0		1.1	mg/kg	7440-50-8	EPA200.7/SW6010
33093007	BSSB08-03	SOIL	06/04/92	06/30/92	Iron	26100		8.3	mg/kg	7439-89-6	EPA200.7/SW6010
33093007	BSSB08-03	SOIL	06/04/92	06/30/92	Mercury	0.05	B	0.1	mg/kg	7439-97-6	SW7471
33093007	BSSB08-03	SOIL	06/04/92	06/30/92	Potassium	332	B	148.0	mg/kg	7440-09-7	EPA200.7/SW6010
33093007	BSSB08-03	SOIL	06/04/92	06/30/92	Magnesium	1980		11.4	mg/kg	7439-95-4	EPA200.7/SW6010
33093007	BSSB08-03	SOIL	06/04/92	06/30/92	Manganese	174		0.8	mg/kg	7439-96-5	EPA200.7/SW6010
33093007	BSSB08-03	SOIL	06/04/92	06/30/92	Sodium	321	B	18.6	mg/kg	7440-23-5	EPA200.7/SW6010
33093007	BSSB08-03	SOIL	06/04/92	06/30/92	Nickel	9.5	B	7.8	mg/kg	7440-02-0	EPA200.7/SW6010
33093007	BSSB08-03	SOIL	06/04/92	07/02/92	Lead	6.5		0.6	mg/kg	7439-92-1	EPA239.2/SW7421
33093007	BSSB08-03	SOIL	06/04/92	06/30/92	Antimony	3.3	< N	11.0	mg/kg	7440-36-0	EPA200.7/SW6010
33093007	BSSB08-03	SOIL	06/04/92	07/06/92	Selenium	0.31	BWN	0.4	mg/kg	7782-49-2	EPA270.2/SW7740
33093007	BSSB08-03	SOIL	06/04/92	07/06/92	Thallium	0.24	< W	0.8	mg/kg	7440-28-0	EPA279.2/SW7841
33093007	BSSB08-03	SOIL	06/04/92	06/30/92	Vanadium	85.1		1.3	mg/kg	7440-62-2	EPA200.7/SW6010
33093007	BSSB08-03	SOIL	06/04/92	06/30/92	Zinc	33.0		1.6	mg/kg	7440-66-6	EPA200.7/SW6010
33093008	BSSB08-04	SOIL	06/04/92	06/30/92	Silver	0.30	<	1.4	mg/kg	7440-22-4	EPA200.7/SW6010
33093008	BSSB08-04	SOIL	06/04/92	06/30/92	Aluminum	12300		7.6	mg/kg	7429-90-5	EPA200.7/SW6010
33093008	BSSB08-04	SOIL	06/04/92	07/06/92	Arsenic	5.2		0.7	mg/kg	7440-38-2	EPA206.2/SW7060
33093008	BSSB08-04	SOIL	06/04/92	06/30/92	Barium	68.8		0.3	mg/kg	7440-39-3	EPA200.7/SW6010
33093008	BSSB08-04	SOIL	06/04/92	06/30/92	Beryllium	0.23	B	0.8	mg/kg	7440-41-7	EPA200.7/SW6010
33093008	BSSB08-04	SOIL	06/04/92	06/30/92	Calcium	4920	E	39.5	mg/kg	7440-70-2	EPA200.7/SW6010
33093008	BSSB08-04	SOIL	06/04/92	06/30/92	Cadmium	1.3		1.0	mg/kg	7440-43-9	EPA200.7/SW6010

33093008	BSSB08-04	SOIL	06/04/92	06/30/92	Cobalt	11.8		7.8	mg/kg	7440-48-4	EPA200.7/SW6010
33093008	BSSB08-04	SOIL	06/04/92	06/30/92	Chromium	27.7		3.3	mg/kg	7440-47-3	EPA200.7/SW6010
33093008	BSSB08-04	SOIL	06/04/92	06/30/92	Copper	36.7		1.1	mg/kg	7440-50-8	EPA200.7/SW6010
33093008	BSSB08-04	SOIL	06/04/92	06/30/92	Iron	24700		8.3	mg/kg	7439-89-6	EPA200.7/SW6010
33093008	BSSB08-04	SOIL	06/04/92	06/30/92	Mercury	0.10		0.1	mg/kg	7439-97-6	SW7471
33093008	BSSB08-04	SOIL	06/04/92	06/30/92	Potassium	638	B	148.0	mg/kg	7440-09-7	EPA200.7/SW6010
33093008	BSSB08-04	SOIL	06/04/92	06/30/92	Magnesium	7830		11.4	mg/kg	7439-95-4	EPA200.7/SW6010
33093008	BSSB08-04	SOIL	06/04/92	06/30/92	Manganese	502		0.8	mg/kg	7439-96-5	EPA200.7/SW6010
33093008	BSSB08-04	SOIL	06/04/92	06/30/92	Sodium	210	B	18.6	mg/kg	7440-23-5	EPA200.7/SW6010
33093008	BSSB08-04	SOIL	06/04/92	06/30/92	Nickel	34.4		7.8	mg/kg	7440-02-0	EPA200.7/SW6010
33093008	BSSB08-04	SOIL	06/04/92	07/02/92	Lead	4.7		0.6	mg/kg	7439-92-1	EPA239.2/SW7421
33093008	BSSB08-04	SOIL	06/04/92	06/30/92	Antimony	2.3	< N	11.0	mg/kg	7440-36-0	EPA200.7/SW6010
33093008	BSSB08-04	SOIL	06/04/92	07/06/92	Selenium	0.11	BWN	0.4	mg/kg	7782-49-2	EPA270.2/SW7740
33093008	BSSB08-04	SOIL	06/04/92	07/06/92	Thallium	0.17	<	0.8	mg/kg	7440-28-0	EPA279.2/SW7841
33093008	BSSB08-04	SOIL	06/04/92	06/30/92	Vanadium	41.3		1.3	mg/kg	7440-62-2	EPA200.7/SW6010
33093008	BSSB08-04	SOIL	06/04/92	06/30/92	Zinc	54.3		1.6	mg/kg	7440-66-6	EPA200.7/SW6010
33093009	BSSB09-01	SOIL	06/04/92	06/30/92	Silver	0.46	<	1.4	mg/kg	7440-22-4	EPA200.7/SW6010
33093009	BSSB09-01	SOIL	06/04/92	06/30/92	Aluminum	11700		7.6	mg/kg	7429-90-5	EPA200.7/SW6010
33093009	BSSB09-01	SOIL	06/04/92	07/06/92	Arsenic	4.9		0.7	mg/kg	7440-38-2	EPA206.2/SW7060
33093009	BSSB09-01	SOIL	06/04/92	06/30/92	Barium	112		0.3	mg/kg	7440-39-3	EPA200.7/SW6010
33093009	BSSB09-01	SOIL	06/04/92	06/30/92	Beryllium	0.32	B	0.8	mg/kg	7440-41-7	EPA200.7/SW6010
33093009	BSSB09-01	SOIL	06/04/92	06/30/92	Calcium	1970	E	39.5	mg/kg	7440-70-2	EPA200.7/SW6010
33093009	BSSB09-01	SOIL	06/04/92	06/30/92	Cadmium	0.45	B	1.0	mg/kg	7440-43-9	EPA200.7/SW6010
33093009	BSSB09-01	SOIL	06/04/92	06/30/92	Cobalt	4.0	B	7.8	mg/kg	7440-48-4	EPA200.7/SW6010
33093009	BSSB09-01	SOIL	06/04/92	06/30/92	Chromium	11.9		3.3	mg/kg	7440-47-3	EPA200.7/SW6010
33093009	BSSB09-01	SOIL	06/04/92	06/30/92	Copper	12.2		1.1	mg/kg	7440-50-8	EPA200.7/SW6010
33093009	BSSB09-01	SOIL	06/04/92	06/30/92	Iron	15300		8.3	mg/kg	7439-89-6	EPA200.7/SW6010
33093009	BSSB09-01	SOIL	06/04/92	06/30/92	Mercury	0.12		0.1	mg/kg	7439-97-6	SW7471
33093009	BSSB09-01	SOIL	06/04/92	06/30/92	Potassium	286	B	148.0	mg/kg	7440-09-7	EPA200.7/SW6010
33093009	BSSB09-01	SOIL	06/04/92	06/30/92	Magnesium	1390	B	11.4	mg/kg	7439-95-4	EPA200.7/SW6010
33093009	BSSB09-01	SOIL	06/04/92	06/30/92	Manganese	151		0.8	mg/kg	7439-96-5	EPA200.7/SW6010
33093009	BSSB09-01	SOIL	06/04/92	06/30/92	Sodium	385	B	18.6	mg/kg	7440-23-5	EPA200.7/SW6010
33093009	BSSB09-01	SOIL	06/04/92	06/30/92	Nickel	4.3	B	7.8	mg/kg	7440-02-0	EPA200.7/SW6010
33093009	BSSB09-01	SOIL	06/04/92	07/02/92	Lead	7.8		0.6	mg/kg	7439-92-1	EPA239.2/SW7421
33093009	BSSB09-01	SOIL	06/04/92	06/30/92	Antimony	3.6	< N	11.0	mg/kg	7440-36-0	EPA200.7/SW6010
33093009	BSSB09-01	SOIL	06/04/92	07/06/92	Selenium	0.38	BN	0.4	mg/kg	7782-49-2	EPA270.2/SW7740
33093009	BSSB09-01	SOIL	06/04/92	07/06/92	Thallium	0.27	<	0.8	mg/kg	7440-28-0	EPA279.2/SW7841
33093009	BSSB09-01	SOIL	06/04/92	06/30/92	Vanadium	37.5		1.3	mg/kg	7440-62-2	EPA200.7/SW6010
33093009	BSSB09-01	SOIL	06/04/92	06/30/92	Zinc	19.7		1.6	mg/kg	7440-66-6	EPA200.7/SW6010
33093010	BSSB09-02	SOIL	06/04/92	06/30/92	Silver	0.46	<	1.4	mg/kg	7440-22-4	EPA200.7/SW6010
33093010	BSSB09-02	SOIL	06/04/92	06/30/92	Aluminum	12100		7.6	mg/kg	7429-90-5	EPA200.7/SW6010
33093010	BSSB09-02	SOIL	06/04/92	07/06/92	Arsenic	5.3		0.7	mg/kg	7440-38-2	EPA206.2/SW7060
33093010	BSSB09-02	SOIL	06/04/92	06/30/92	Barium	105		0.3	mg/kg	7440-39-3	EPA200.7/SW6010
33093010	BSSB09-02	SOIL	06/04/92	06/30/92	Beryllium	0.32	B	0.8	mg/kg	7440-41-7	EPA200.7/SW6010
33093010	BSSB09-02	SOIL	06/04/92	06/30/92	Calcium	1550	BE	39.5	mg/kg	7440-70-2	EPA200.7/SW6010

33093010	BSSB09-02	SOIL	06/04/92	06/30/92	Cadmium	0.71	B	1.0	mg/kg	7440-43-9	EPA200.7/SW6010
33093010	BSSB09-02	SOIL	06/04/92	06/30/92	Cobalt	3.4	B	7.8	mg/kg	7440-48-4	EPA200.7/SW6010
33093010	BSSB09-02	SOIL	06/04/92	06/30/92	Chromium	12.0		3.3	mg/kg	7440-47-3	EPA200.7/SW6010
33093010	BSSB09-02	SOIL	06/04/92	06/30/92	Copper	12.6		1.1	mg/kg	7440-50-8	EPA200.7/SW6010
33093010	BSSB09-02	SOIL	06/04/92	06/30/92	Iron	15700		8.3	mg/kg	7439-89-6	EPA200.7/SW6010
33093010	BSSB09-02	SOIL	06/04/92	06/30/92	Mercury	0.07	B	0.1	mg/kg	7439-97-6	SW7471
33093010	BSSB09-02	SOIL	06/04/92	06/30/92	Potassium	262	B	148.0	mg/kg	7440-09-7	EPA200.7/SW6010
33093010	BSSB09-02	SOIL	06/04/92	06/30/92	Magnesium	1210	B	11.4	mg/kg	7439-95-4	EPA200.7/SW6010
33093010	BSSB09-02	SOIL	06/04/92	06/30/92	Manganese	200		0.8	mg/kg	7439-96-5	EPA200.7/SW6010
33093010	BSSB09-02	SOIL	06/04/92	06/30/92	Sodium	315	B	18.6	mg/kg	7440-23-5	EPA200.7/SW6010
33093010	BSSB09-02	SOIL	06/04/92	06/30/92	Nickel	4.2	B	7.8	mg/kg	7440-02-0	EPA200.7/SW6010
33093010	BSSB09-02	SOIL	06/04/92	07/02/92	Lead	7.6		0.6	mg/kg	7439-92-1	EPA239.2/SW7421
33093010	BSSB09-02	SOIL	06/04/92	06/30/92	Antimony	3.6	< N	11.0	mg/kg	7440-36-0	EPA200.7/SW6010
33093010	BSSB09-02	SOIL	06/04/92	07/06/92	Selenium	0.34	BN	0.4	mg/kg	7782-49-2	EPA270.2/SW7740
33093010	BSSB09-02	SOIL	06/04/92	07/06/92	Thallium	0.26	<	0.8	mg/kg	7440-28-0	EPA279.2/SW7841
33093010	BSSB09-02	SOIL	06/04/92	06/30/92	Vanadium	34.4		1.3	mg/kg	7440-62-2	EPA200.7/SW6010
33093010	BSSB09-02	SOIL	06/04/92	06/30/92	Zinc	17.7		1.6	mg/kg	7440-66-6	EPA200.7/SW6010
33093011	BSSB09-03	SOIL	06/04/92	06/30/92	Silver	0.35	<	1.4	mg/kg	7440-22-4	EPA200.7/SW6010
33093011	BSSB09-03	SOIL	06/04/92	06/30/92	Aluminum	19000		7.6	mg/kg	7429-90-5	EPA200.7/SW6010
33093011	BSSB09-03	SOIL	06/04/92	07/06/92	Arsenic	7.6		0.7	mg/kg	7440-38-2	EPA206.2/SW7060
33093011	BSSB09-03	SOIL	06/04/92	06/30/92	Barium	103		0.3	mg/kg	7440-39-3	EPA200.7/SW6010
33093011	BSSB09-03	SOIL	06/04/92	06/30/92	Beryllium	0.33	B	0.8	mg/kg	7440-41-7	EPA200.7/SW6010
33093011	BSSB09-03	SOIL	06/04/92	06/30/92	Calcium	2970	E	39.5	mg/kg	7440-70-2	EPA200.7/SW6010
33093011	BSSB09-03	SOIL	06/04/92	06/30/92	Cadmium	1.4		1.0	mg/kg	7440-43-9	EPA200.7/SW6010
33093011	BSSB09-03	SOIL	06/04/92	06/30/92	Cobalt	11.0	B	7.8	mg/kg	7440-48-4	EPA200.7/SW6010
33093011	BSSB09-03	SOIL	06/04/92	06/30/92	Chromium	34.2		3.3	mg/kg	7440-47-3	EPA200.7/SW6010
33093011	BSSB09-03	SOIL	06/04/92	06/30/92	Copper	22.1		1.1	mg/kg	7440-50-8	EPA200.7/SW6010
33093011	BSSB09-03	SOIL	06/04/92	06/30/92	Iron	27400		8.3	mg/kg	7439-89-6	EPA200.7/SW6010
33093011	BSSB09-03	SOIL	06/04/92	06/30/92	Mercury	0.06	B	0.1	mg/kg	7439-97-6	SW7471
33093011	BSSB09-03	SOIL	06/04/92	06/30/92	Potassium	429	B	148.0	mg/kg	7440-09-7	EPA200.7/SW6010
33093011	BSSB09-03	SOIL	06/04/92	06/30/92	Magnesium	7540		11.4	mg/kg	7439-95-4	EPA200.7/SW6010
33093011	BSSB09-03	SOIL	06/04/92	06/30/92	Manganese	414		0.8	mg/kg	7439-96-5	EPA200.7/SW6010
33093011	BSSB09-03	SOIL	06/04/92	06/30/92	Sodium	238	B	18.6	mg/kg	7440-23-5	EPA200.7/SW6010
33093011	BSSB09-03	SOIL	06/04/92	06/30/92	Nickel	38.2		7.8	mg/kg	7440-02-0	EPA200.7/SW6010
33093011	BSSB09-03	SOIL	06/04/92	07/02/92	Lead	5.5		0.6	mg/kg	7439-92-1	EPA239.2/SW7421
33093011	BSSB09-03	SOIL	06/04/92	06/30/92	Antimony	2.8	< N	11.0	mg/kg	7440-36-0	EPA200.7/SW6010
33093011	BSSB09-03	SOIL	06/04/92	07/06/92	Selenium	0.12	BWN	0.4	mg/kg	7782-49-2	EPA270.2/SW7740
33093011	BSSB09-03	SOIL	06/04/92	07/06/92	Thallium	0.20	< W	0.8	mg/kg	7440-28-0	EPA279.2/SW7841
33093011	BSSB09-03	SOIL	06/04/92	06/30/92	Vanadium	58.8		1.3	mg/kg	7440-62-2	EPA200.7/SW6010
33093011	BSSB09-03	SOIL	06/04/92	06/30/92	Zinc	45.6		1.6	mg/kg	7440-66-6	EPA200.7/SW6010
33093012	BSSB09-04	SOIL	06/04/92	06/30/92	Silver	0.33	B	1.4	mg/kg	7440-22-4	EPA200.7/SW6010
33093012	BSSB09-04	SOIL	06/04/92	06/30/92	Aluminum	11800		7.6	mg/kg	7429-90-5	EPA200.7/SW6010
33093012	BSSB09-04	SOIL	06/04/92	07/06/92	Arsenic	4.0		0.7	mg/kg	7440-38-2	EPA206.2/SW7060
33093012	BSSB09-04	SOIL	06/04/92	06/30/92	Barium	66.4		0.3	mg/kg	7440-39-3	EPA200.7/SW6010
33093012	BSSB09-04	SOIL	06/04/92	06/30/92	Beryllium	0.23	B	0.8	mg/kg	7440-41-7	EPA200.7/SW6010

33093012	BSSB09-04	SOIL	06/04/92	06/30/92	Calcium	5190	E	39.5	mg/kg	7440-70-2	EPA200.7/SW6010
33093012	BSSB09-04	SOIL	06/04/92	06/30/92	Cadmium	1.4		1.0	mg/kg	7440-43-9	EPA200.7/SW6010
33093012	BSSB09-04	SOIL	06/04/92	06/30/92	Cobalt	12.1		7.8	mg/kg	7440-48-4	EPA200.7/SW6010
33093012	BSSB09-04	SOIL	06/04/92	06/30/92	Chromium	57.2		3.3	mg/kg	7440-47-3	EPA200.7/SW6010
33093012	BSSB09-04	SOIL	06/04/92	06/30/92	Copper	21.9		1.1	mg/kg	7440-50-8	EPA200.7/SW6010
33093012	BSSB09-04	SOIL	06/04/92	06/30/92	Iron	21000		8.3	mg/kg	7439-89-6	EPA200.7/SW6010
33093012	BSSB09-04	SOIL	06/04/92	06/30/92	Mercury	0.06		0.1	mg/kg	7439-97-6	SW7471
33093012	BSSB09-04	SOIL	06/04/92	06/30/92	Potassium	409	B	148.0	mg/kg	7440-09-7	EPA200.7/SW6010
33093012	BSSB09-04	SOIL	06/04/92	06/30/92	Magnesium	7010		11.4	mg/kg	7439-95-4	EPA200.7/SW6010
33093012	BSSB09-04	SOIL	06/04/92	06/30/92	Manganese	640		0.8	mg/kg	7439-96-5	EPA200.7/SW6010
33093012	BSSB09-04	SOIL	06/04/92	06/30/92	Sodium	228	B	18.6	mg/kg	7440-23-5	EPA200.7/SW6010
33093012	BSSB09-04	SOIL	06/04/92	06/30/92	Nickel	45.5		7.8	mg/kg	7440-02-0	EPA200.7/SW6010
33093012	BSSB09-04	SOIL	06/04/92	07/02/92	Lead	4.5		0.6	mg/kg	7439-92-1	EPA239.2/SW7421
33093012	BSSB09-04	SOIL	06/04/92	06/30/92	Antimony	2.3	< N	11.0	mg/kg	7440-36-0	EPA200.7/SW6010
33093012	BSSB09-04	SOIL	06/04/92	07/06/92	Selenium	0.09	< WN	0.4	mg/kg	7782-49-2	EPA270.2/SW7740
33093012	BSSB09-04	SOIL	06/04/92	07/06/92	Thallium	0.17	< W	0.8	mg/kg	7440-28-0	EPA279.2/SW7841
33093012	BSSB09-04	SOIL	06/04/92	06/30/92	Vanadium	41.7		1.3	mg/kg	7440-62-2	EPA200.7/SW6010
33093012	BSSB09-04	SOIL	06/04/92	06/30/92	Zinc	45.6		1.6	mg/kg	7440-66-6	EPA200.7/SW6010
33093013	BSSB09-05	SOIL	06/04/92	06/30/92	Silver	0.43	B	1.4	mg/kg	7440-22-4	EPA200.7/SW6010
33093013	BSSB09-05	SOIL	06/04/92	06/30/92	Aluminum	13100		7.6	mg/kg	7429-90-5	EPA200.7/SW6010
33093013	BSSB09-05	SOIL	06/04/92	07/06/92	Arsenic	4.7		0.7	mg/kg	7440-38-2	EPA206.2/SW7060
33093013	BSSB09-05	SOIL	06/04/92	06/30/92	Barium	55.4		0.3	mg/kg	7440-39-3	EPA200.7/SW6010
33093013	BSSB09-05	SOIL	06/04/92	06/30/92	Beryllium	0.17	<	0.8	mg/kg	7440-41-7	EPA200.7/SW6010
33093013	BSSB09-05	SOIL	06/04/92	06/30/92	Calcium	4700	E	39.5	mg/kg	7440-70-2	EPA200.7/SW6010
33093013	BSSB09-05	SOIL	06/04/92	06/30/92	Cadmium	1.6		1.0	mg/kg	7440-43-9	EPA200.7/SW6010
33093013	BSSB09-05	SOIL	06/04/92	06/30/92	Cobalt	13.1		7.8	mg/kg	7440-48-4	EPA200.7/SW6010
33093013	BSSB09-05	SOIL	06/04/92	06/30/92	Chromium	33.9		3.3	mg/kg	7440-47-3	EPA200.7/SW6010
33093013	BSSB09-05	SOIL	06/04/92	06/30/92	Copper	38.9		1.1	mg/kg	7440-50-8	EPA200.7/SW6010
33093013	BSSB09-05	SOIL	06/04/92	06/30/92	Iron	28100		8.3	mg/kg	7439-89-6	EPA200.7/SW6010
33093013	BSSB09-05	SOIL	06/04/92	06/30/92	Mercury	0.11		0.1	mg/kg	7439-97-6	SW7471
33093013	BSSB09-05	SOIL	06/04/92	06/30/92	Potassium	638	B	148.0	mg/kg	7440-09-7	EPA200.7/SW6010
33093013	BSSB09-05	SOIL	06/04/92	06/30/92	Magnesium	9120		11.4	mg/kg	7439-95-4	EPA200.7/SW6010
33093013	BSSB09-05	SOIL	06/04/92	06/30/92	Manganese	550		0.8	mg/kg	7439-96-5	EPA200.7/SW6010
33093013	BSSB09-05	SOIL	06/04/92	06/30/92	Sodium	213	B	18.6	mg/kg	7440-23-5	EPA200.7/SW6010
33093013	BSSB09-05	SOIL	06/04/92	06/30/92	Nickel	37.5		7.8	mg/kg	7440-02-0	EPA200.7/SW6010
33093013	BSSB09-05	SOIL	06/04/92	07/02/92	Lead	4.4		0.6	mg/kg	7439-92-1	EPA239.2/SW7421
33093013	BSSB09-05	SOIL	06/04/92	06/30/92	Antimony	2.4	< N	11.0	mg/kg	7440-36-0	EPA200.7/SW6010
33093013	BSSB09-05	SOIL	06/04/92	07/06/92	Selenium	0.09	< WN	0.4	mg/kg	7782-49-2	EPA270.2/SW7740
33093013	BSSB09-05	SOIL	06/04/92	07/06/92	Thallium	0.17	<	0.8	mg/kg	7440-28-0	EPA279.2/SW7841
33093013	BSSB09-05	SOIL	06/04/92	06/30/92	Vanadium	48.2		1.3	mg/kg	7440-62-2	EPA200.7/SW6010
33093013	BSSB09-05	SOIL	06/04/92	06/30/92	Zinc	56.5		1.6	mg/kg	7440-66-6	EPA200.7/SW6010
33093014	BSSB12-01	SOIL	06/04/92	06/30/92	Silver	0.46	<	1.4	mg/kg	7440-22-4	EPA200.7/SW6010
33093014	BSSB12-01	SOIL	06/04/92	06/30/92	Aluminum	12500		7.6	mg/kg	7429-90-5	EPA200.7/SW6010
33093014	BSSB12-01	SOIL	06/04/92	07/06/92	Arsenic	13.1		0.7	mg/kg	7440-38-2	EPA206.2/SW7060
33093014	BSSB12-01	SOIL	06/04/92	06/30/92	Barium	122		0.3	mg/kg	7440-39-3	EPA200.7/SW6010

33093014	BSSB12-01	SOIL	06/04/92	06/30/92	Beryllium	0.31	B	0.8	mg/kg	7440-41-7	EPA200.7/SW6010
33093014	BSSB12-01	SOIL	06/04/92	06/30/92	Calcium	1790	E	39.5	mg/kg	7440-70-2	EPA200.7/SW6010
33093014	BSSB12-01	SOIL	06/04/92	06/30/92	Cadmium	1.0	B	1.0	mg/kg	7440-43-9	EPA200.7/SW6010
33093014	BSSB12-01	SOIL	06/04/92	06/30/92	Cobalt	7.5	B	7.8	mg/kg	7440-48-4	EPA200.7/SW6010
33093014	BSSB12-01	SOIL	06/04/92	06/30/92	Chromium	20.9		3.3	mg/kg	7440-47-3	EPA200.7/SW6010
33093014	BSSB12-01	SOIL	06/04/92	06/30/92	Copper	10.9		1.1	mg/kg	7440-50-8	EPA200.7/SW6010
33093014	BSSB12-01	SOIL	06/04/92	06/30/92	Iron	32700		8.3	mg/kg	7439-89-6	EPA200.7/SW6010
33093014	BSSB12-01	SOIL	06/04/92	06/30/92	Mercury	0.09	B	0.1	mg/kg	7439-97-6	SW7471
33093014	BSSB12-01	SOIL	06/04/92	06/30/92	Potassium	324	B	148.0	mg/kg	7440-09-7	EPA200.7/SW6010
33093014	BSSB12-01	SOIL	06/04/92	06/30/92	Magnesium	2500		11.4	mg/kg	7439-95-4	EPA200.7/SW6010
33093014	BSSB12-01	SOIL	06/04/92	06/30/92	Manganese	431		0.8	mg/kg	7439-96-5	EPA200.7/SW6010
33093014	BSSB12-01	SOIL	06/04/92	06/30/92	Sodium	291	B	18.6	mg/kg	7440-23-5	EPA200.7/SW6010
33093014	BSSB12-01	SOIL	06/04/92	06/30/92	Nickel	9.4	B	7.8	mg/kg	7440-02-0	EPA200.7/SW6010
33093014	BSSB12-01	SOIL	06/04/92	07/02/92	Lead	9.7		0.6	mg/kg	7439-92-1	EPA239.2/SW7421
33093014	BSSB12-01	SOIL	06/04/92	06/30/92	Antimony	3.6	< N	11.0	mg/kg	7440-36-0	EPA200.7/SW6010
33093014	BSSB12-01	SOIL	06/04/92	07/06/92	Selenium	0.27	BN	0.4	mg/kg	7782-49-2	EPA270.2/SW7740
33093014	BSSB12-01	SOIL	06/04/92	07/06/92	Thallium	0.26	<	0.8	mg/kg	7440-28-0	EPA279.2/SW7841
33093014	BSSB12-01	SOIL	06/04/92	06/30/92	Vanadium	83.1		1.3	mg/kg	7440-62-2	EPA200.7/SW6010
33093014	BSSB12-01	SOIL	06/04/92	06/30/92	Zinc	39.9		1.6	mg/kg	7440-66-6	EPA200.7/SW6010
33093015	BSSB12-02	SOIL	06/04/92	06/30/92	Silver	0.43	B	1.4	mg/kg	7440-22-4	EPA200.7/SW6010
33093015	BSSB12-02	SOIL	06/04/92	06/30/92	Aluminum	14800		7.6	mg/kg	7429-90-5	EPA200.7/SW6010
33093015	BSSB12-02	SOIL	06/04/92	07/06/92	Arsenic	5.1		0.7	mg/kg	7440-38-2	EPA206.2/SW7060
33093015	BSSB12-02	SOIL	06/04/92	06/30/92	Barium	41.8	B	0.3	mg/kg	7440-39-3	EPA200.7/SW6010
33093015	BSSB12-02	SOIL	06/04/92	06/30/92	Beryllium	0.35	B	0.8	mg/kg	7440-41-7	EPA200.7/SW6010
33093015	BSSB12-02	SOIL	06/04/92	06/30/92	Calcium	3550	E	39.5	mg/kg	7440-70-2	EPA200.7/SW6010
33093015	BSSB12-02	SOIL	06/04/92	06/30/92	Cadmium	1.8		1.0	mg/kg	7440-43-9	EPA200.7/SW6010
33093015	BSSB12-02	SOIL	06/04/92	06/30/92	Cobalt	14.4		7.8	mg/kg	7440-48-4	EPA200.7/SW6010
33093015	BSSB12-02	SOIL	06/04/92	06/30/92	Chromium	27.0		3.3	mg/kg	7440-47-3	EPA200.7/SW6010
33093015	BSSB12-02	SOIL	06/04/92	06/30/92	Copper	19.7		1.1	mg/kg	7440-50-8	EPA200.7/SW6010
33093015	BSSB12-02	SOIL	06/04/92	06/30/92	Iron	27000		8.3	mg/kg	7439-89-6	EPA200.7/SW6010
33093015	BSSB12-02	SOIL	06/04/92	06/30/92	Mercury	0.03	B	0.1	mg/kg	7439-97-6	SW7471
33093015	BSSB12-02	SOIL	06/04/92	06/30/92	Potassium	418	B	148.0	mg/kg	7440-09-7	EPA200.7/SW6010
33093015	BSSB12-02	SOIL	06/04/92	06/30/92	Magnesium	7660		11.4	mg/kg	7439-95-4	EPA200.7/SW6010
33093015	BSSB12-02	SOIL	06/04/92	06/30/92	Manganese	806		0.8	mg/kg	7439-96-5	EPA200.7/SW6010
33093015	BSSB12-02	SOIL	06/04/92	06/30/92	Sodium	175	B	18.6	mg/kg	7440-23-5	EPA200.7/SW6010
33093015	BSSB12-02	SOIL	06/04/92	06/30/92	Nickel	34.7		7.8	mg/kg	7440-02-0	EPA200.7/SW6010
33093015	BSSB12-02	SOIL	06/04/92	07/02/92	Lead	4.7		0.6	mg/kg	7439-92-1	EPA239.2/SW7421
33093015	BSSB12-02	SOIL	06/04/92	06/30/92	Antimony	2.4	< N	11.0	mg/kg	7440-36-0	EPA200.7/SW6010
33093015	BSSB12-02	SOIL	06/04/92	07/06/92	Selenium	0.12	BWN	0.4	mg/kg	7782-49-2	EPA270.2/SW7740
33093015	BSSB12-02	SOIL	06/04/92	07/06/92	Thallium	0.17	<	0.8	mg/kg	7440-28-0	EPA279.2/SW7841
33093015	BSSB12-02	SOIL	06/04/92	06/30/92	Vanadium	49.3		1.3	mg/kg	7440-62-2	EPA200.7/SW6010
33093015	BSSB12-02	SOIL	06/04/92	06/30/92	Zinc	51.1		1.6	mg/kg	7440-66-6	EPA200.7/SW6010
33093016	BSSB12-03	SOIL	06/04/92	06/30/92	Silver	0.42	B	1.4	mg/kg	7440-22-4	EPA200.7/SW6010
33093016	BSSB12-03	SOIL	06/04/92	06/30/92	Aluminum	14900		7.6	mg/kg	7429-90-5	EPA200.7/SW6010
33093016	BSSB12-03	SOIL	06/04/92	07/06/92	Arsenic	5.8		0.7	mg/kg	7440-38-2	EPA206.2/SW7060

33093016	BSSB12-03	SOIL	06/04/92	06/30/92	Barium	45.0		0.3	mg/kg	7440-39-3	EPA200.7/SW6010
33093016	BSSB12-03	SOIL	06/04/92	06/30/92	Beryllium	0.23	B	0.8	mg/kg	7440-41-7	EPA200.7/SW6010
33093016	BSSB12-03	SOIL	06/04/92	06/30/92	Calcium	3380	E	39.5	mg/kg	7440-70-2	EPA200.7/SW6010
33093016	BSSB12-03	SOIL	06/04/92	06/30/92	Cadmium	1.8		1.0	mg/kg	7440-43-9	EPA200.7/SW6010
33093016	BSSB12-03	SOIL	06/04/92	06/30/92	Cobalt	14.1		7.8	mg/kg	7440-48-4	EPA200.7/SW6010
33093016	BSSB12-03	SOIL	06/04/92	06/30/92	Chromium	41.4		3.3	mg/kg	7440-47-3	EPA200.7/SW6010
33093016	BSSB12-03	SOIL	06/04/92	06/30/92	Copper	16.1		1.1	mg/kg	7440-50-8	EPA200.7/SW6010
33093016	BSSB12-03	SOIL	06/04/92	06/30/92	Iron	24400		8.3	mg/kg	7439-89-6	EPA200.7/SW6010
33093016	BSSB12-03	SOIL	06/04/92	06/30/92	Mercury	0.05	B	0.1	mg/kg	7439-97-6	SW7471
33093016	BSSB12-03	SOIL	06/04/92	06/30/92	Potassium	398	B	148.0	mg/kg	7440-09-7	EPA200.7/SW6010
33093016	BSSB12-03	SOIL	06/04/92	06/30/92	Magnesium	9740		11.4	mg/kg	7439-95-4	EPA200.7/SW6010
33093016	BSSB12-03	SOIL	06/04/92	06/30/92	Manganese	679		0.8	mg/kg	7439-96-5	EPA200.7/SW6010
33093016	BSSB12-03	SOIL	06/04/92	06/30/92	Sodium	182	B	18.6	mg/kg	7440-23-5	EPA200.7/SW6010
33093016	BSSB12-03	SOIL	06/04/92	06/30/92	Nickel	47.7		7.8	mg/kg	7440-02-0	EPA200.7/SW6010
33093016	BSSB12-03	SOIL	06/04/92	07/02/92	Lead	5.1		0.6	mg/kg	7439-92-1	EPA239.2/SW7421
33093016	BSSB12-03	SOIL	06/04/92	06/30/92	Antimony	2.4	< N	11.0	mg/kg	7440-36-0	EPA200.7/SW6010
33093016	BSSB12-03	SOIL	06/04/92	07/06/92	Selenium	0.13	BWN	0.4	mg/kg	7782-49-2	EPA270.2/SW7740
33093016	BSSB12-03	SOIL	06/04/92	07/06/92	Thallium	0.18	< W	0.8	mg/kg	7440-28-0	EPA279.2/SW7841
33093016	BSSB12-03	SOIL	06/04/92	06/30/92	Vanadium	44.4		1.3	mg/kg	7440-62-2	EPA200.7/SW6010
33093016	BSSB12-03	SOIL	06/04/92	06/30/92	Zinc	47.5		1.6	mg/kg	7440-66-6	EPA200.7/SW6010
33093017	BSSB12-04	SOIL	06/04/92	06/30/92	Silver	0.32	B	1.4	mg/kg	7440-22-4	EPA200.7/SW6010
33093017	BSSB12-04	SOIL	06/04/92	06/30/92	Aluminum	9900		7.6	mg/kg	7429-90-5	EPA200.7/SW6010
33093017	BSSB12-04	SOIL	06/04/92	07/06/92	Arsenic	4.8		0.7	mg/kg	7440-38-2	EPA206.2/SW7060
33093017	BSSB12-04	SOIL	06/04/92	06/30/92	Barium	40.9	B	0.3	mg/kg	7440-39-3	EPA200.7/SW6010
33093017	BSSB12-04	SOIL	06/04/92	06/30/92	Beryllium	0.31	B	0.8	mg/kg	7440-41-7	EPA200.7/SW6010
33093017	BSSB12-04	SOIL	06/04/92	06/30/92	Calcium	3580	E	39.5	mg/kg	7440-70-2	EPA200.7/SW6010
33093017	BSSB12-04	SOIL	06/04/92	06/30/92	Cadmium	1.3		1.0	mg/kg	7440-43-9	EPA200.7/SW6010
33093017	BSSB12-04	SOIL	06/04/92	06/30/92	Cobalt	9.7	B	7.8	mg/kg	7440-48-4	EPA200.7/SW6010
33093017	BSSB12-04	SOIL	06/04/92	06/30/92	Chromium	29.1		3.3	mg/kg	7440-47-3	EPA200.7/SW6010
33093017	BSSB12-04	SOIL	06/04/92	06/30/92	Copper	31.4		1.1	mg/kg	7440-50-8	EPA200.7/SW6010
33093017	BSSB12-04	SOIL	06/04/92	06/30/92	Iron	21900		8.3	mg/kg	7439-89-6	EPA200.7/SW6010
33093017	BSSB12-04	SOIL	06/04/92	06/30/92	Mercury	0.08		0.1	mg/kg	7439-97-6	SW7471
33093017	BSSB12-04	SOIL	06/04/92	06/30/92	Potassium	452	B	148.0	mg/kg	7440-09-7	EPA200.7/SW6010
33093017	BSSB12-04	SOIL	06/04/92	06/30/92	Magnesium	6810		11.4	mg/kg	7439-95-4	EPA200.7/SW6010
33093017	BSSB12-04	SOIL	06/04/92	06/30/92	Manganese	527		0.8	mg/kg	7439-96-5	EPA200.7/SW6010
33093017	BSSB12-04	SOIL	06/04/92	06/30/92	Sodium	178	B	18.6	mg/kg	7440-23-5	EPA200.7/SW6010
33093017	BSSB12-04	SOIL	06/04/92	06/30/92	Nickel	29.9		7.8	mg/kg	7440-02-0	EPA200.7/SW6010
33093017	BSSB12-04	SOIL	06/04/92	07/02/92	Lead	3.2		0.6	mg/kg	7439-92-1	EPA239.2/SW7421
33093017	BSSB12-04	SOIL	06/04/92	06/30/92	Antimony	2.3	< N	11.0	mg/kg	7440-36-0	EPA200.7/SW6010
33093017	BSSB12-04	SOIL	06/04/92	07/06/92	Selenium	0.08	< N	0.4	mg/kg	7782-49-2	EPA270.2/SW7740
33093017	BSSB12-04	SOIL	06/04/92	07/06/92	Thallium	0.17	< W	0.8	mg/kg	7440-28-0	EPA279.2/SW7841
33093017	BSSB12-04	SOIL	06/04/92	06/30/92	Vanadium	37.4		1.3	mg/kg	7440-62-2	EPA200.7/SW6010
33093017	BSSB12-04	SOIL	06/04/92	06/30/92	Zinc	46.5		1.6	mg/kg	7440-66-6	EPA200.7/SW6010
33093018	BSSB12-05	SOIL	06/04/92	06/30/92	Silver	0.30	<	1.4	mg/kg	7440-22-4	EPA200.7/SW6010
33093018	BSSB12-05	SOIL	06/04/92	06/30/92	Aluminum	14300		7.6	mg/kg	7429-90-5	EPA200.7/SW6010

33093018	BSSB12-05	SOIL	06/04/92	07/06/92	Arsenic	4.7		0.7	mg/kg	7440-38-2	EPA206.2/SW7060
33093018	BSSB12-05	SOIL	06/04/92	06/30/92	Barium	51.4		0.3	mg/kg	7440-39-3	EPA200.7/SW6010
33093018	BSSB12-05	SOIL	06/04/92	06/30/92	Beryllium	0.33	B	0.8	mg/kg	7440-41-7	EPA200.7/SW6010
33093018	BSSB12-05	SOIL	06/04/92	06/30/92	Calcium	6930	E	39.5	mg/kg	7440-70-2	EPA200.7/SW6010
33093018	BSSB12-05	SOIL	06/04/92	06/30/92	Cadmium	1.7		1.0	mg/kg	7440-43-9	EPA200.7/SW6010
33093018	BSSB12-05	SOIL	06/04/92	06/30/92	Cobalt	12.4		7.8	mg/kg	7440-48-4	EPA200.7/SW6010
33093018	BSSB12-05	SOIL	06/04/92	06/30/92	Chromium	34.8		3.3	mg/kg	7440-47-3	EPA200.7/SW6010
33093018	BSSB12-05	SOIL	06/04/92	06/30/92	Copper	36.2		1.1	mg/kg	7440-50-8	EPA200.7/SW6010
33093018	BSSB12-05	SOIL	06/04/92	06/30/92	Iron	26900		8.3	mg/kg	7439-89-6	EPA200.7/SW6010
33093018	BSSB12-05	SOIL	06/04/92	06/30/92	Mercury	0.09		0.1	mg/kg	7439-97-6	SW7471
33093018	BSSB12-05	SOIL	06/04/92	06/30/92	Potassium	736	B	148.0	mg/kg	7440-09-7	EPA200.7/SW6010
33093018	BSSB12-05	SOIL	06/04/92	06/30/92	Magnesium	8450		11.4	mg/kg	7439-95-4	EPA200.7/SW6010
33093018	BSSB12-05	SOIL	06/04/92	06/30/92	Manganese	545		0.8	mg/kg	7439-96-5	EPA200.7/SW6010
33093018	BSSB12-05	SOIL	06/04/92	06/30/92	Sodium	213	B	18.6	mg/kg	7440-23-5	EPA200.7/SW6010
33093018	BSSB12-05	SOIL	06/04/92	06/30/92	Nickel	36.8		7.8	mg/kg	7440-02-0	EPA200.7/SW6010
33093018	BSSB12-05	SOIL	06/04/92	07/02/92	Lead	3.7		0.6	mg/kg	7439-92-1	EPA239.2/SW7421
33093018	BSSB12-05	SOIL	06/04/92	06/30/92	Antimony	2.3	< N	11.0	mg/kg	7440-36-0	EPA200.7/SW6010
33093018	BSSB12-05	SOIL	06/04/92	07/06/92	Selenium	0.09	BWN	0.4	mg/kg	7782-49-2	EPA270.2/SW7740
33093018	BSSB12-05	SOIL	06/04/92	07/06/92	Thallium	0.17	< W	0.8	mg/kg	7440-28-0	EPA279.2/SW7841
33093018	BSSB12-05	SOIL	06/04/92	06/30/92	Vanadium	52.3		1.3	mg/kg	7440-62-2	EPA200.7/SW6010
33093018	BSSB12-05	SOIL	06/04/92	06/30/92	Zinc	55.9		1.6	mg/kg	7440-66-6	EPA200.7/SW6010
33093019	BSSB13-01	SOIL	06/03/92	06/30/92	Silver	0.46	B	1.4	mg/kg	7440-22-4	EPA200.7/SW6010
33093019	BSSB13-01	SOIL	06/03/92	06/30/92	Aluminum	15300		7.6	mg/kg	7429-90-5	EPA200.7/SW6010
33093019	BSSB13-01	SOIL	06/03/92	07/06/92	Arsenic	9.0		0.7	mg/kg	7440-38-2	EPA206.2/SW7060
33093019	BSSB13-01	SOIL	06/03/92	06/30/92	Barium	110		0.3	mg/kg	7440-39-3	EPA200.7/SW6010
33093019	BSSB13-01	SOIL	06/03/92	06/30/92	Beryllium	0.42	B	0.8	mg/kg	7440-41-7	EPA200.7/SW6010
33093019	BSSB13-01	SOIL	06/03/92	06/30/92	Calcium	8210	E	39.5	mg/kg	7440-70-2	EPA200.7/SW6010
33093019	BSSB13-01	SOIL	06/03/92	06/30/92	Cadmium	1.6		1.0	mg/kg	7440-43-9	EPA200.7/SW6010
33093019	BSSB13-01	SOIL	06/03/92	06/30/92	Cobalt	10.1	B	7.8	mg/kg	7440-48-4	EPA200.7/SW6010
33093019	BSSB13-01	SOIL	06/03/92	06/30/92	Chromium	20.2		3.3	mg/kg	7440-47-3	EPA200.7/SW6010
33093019	BSSB13-01	SOIL	06/03/92	06/30/92	Copper	13.5		1.1	mg/kg	7440-50-8	EPA200.7/SW6010
33093019	BSSB13-01	SOIL	06/03/92	06/30/92	Iron	26300		8.3	mg/kg	7439-89-6	EPA200.7/SW6010
33093019	BSSB13-01	SOIL	06/03/92	06/30/92	Mercury	0.07	B	0.1	mg/kg	7439-97-6	SW7471
33093019	BSSB13-01	SOIL	06/03/92	06/30/92	Potassium	535	B	148.0	mg/kg	7440-09-7	EPA200.7/SW6010
33093019	BSSB13-01	SOIL	06/03/92	06/30/92	Magnesium	4260		11.4	mg/kg	7439-95-4	EPA200.7/SW6010
33093019	BSSB13-01	SOIL	06/03/92	06/30/92	Manganese	738		0.8	mg/kg	7439-96-5	EPA200.7/SW6010
33093019	BSSB13-01	SOIL	06/03/92	06/30/92	Sodium	369	B	18.6	mg/kg	7440-23-5	EPA200.7/SW6010
33093019	BSSB13-01	SOIL	06/03/92	06/30/92	Nickel	18.0		7.8	mg/kg	7440-02-0	EPA200.7/SW6010
33093019	BSSB13-01	SOIL	06/03/92	07/02/92	Lead	7.3		0.6	mg/kg	7439-92-1	EPA239.2/SW7421
33093019	BSSB13-01	SOIL	06/03/92	06/30/92	Antimony	3.3	< N	11.0	mg/kg	7440-36-0	EPA200.7/SW6010
33093019	BSSB13-01	SOIL	06/03/92	07/06/92	Selenium	0.24	BWN	0.4	mg/kg	7782-49-2	EPA270.2/SW7740
33093019	BSSB13-01	SOIL	06/03/92	07/06/92	Thallium	0.24	< W	0.8	mg/kg	7440-28-0	EPA279.2/SW7841
33093019	BSSB13-01	SOIL	06/03/92	06/30/92	Vanadium	58.3		1.3	mg/kg	7440-62-2	EPA200.7/SW6010
33093019	BSSB13-01	SOIL	06/03/92	06/30/92	Zinc	77.7		1.6	mg/kg	7440-66-6	EPA200.7/SW6010
33093020	BSSB13-02	SOIL	06/03/92	06/30/92	Silver	0.32	<	1.4	mg/kg	7440-22-4	EPA200.7/SW6010

33093020	BSSB13-02	SOIL	06/03/92	06/30/92	Aluminum	19500		7.6	mg/kg	7429-90-5	EPA200.7/SW6010
33093020	BSSB13-02	SOIL	06/03/92	07/06/92	Arsenic	6.2		0.7	mg/kg	7440-38-2	EPA206.2/SW7060
33093020	BSSB13-02	SOIL	06/03/92	06/30/92	Barium	64.5		0.3	mg/kg	7440-39-3	EPA200.7/SW6010
33093020	BSSB13-02	SOIL	06/03/92	06/30/92	Beryllium	0.33	B	0.8	mg/kg	7440-41-7	EPA200.7/SW6010
33093020	BSSB13-02	SOIL	06/03/92	06/30/92	Calcium	7530	E	39.5	mg/kg	7440-70-2	EPA200.7/SW6010
33093020	BSSB13-02	SOIL	06/03/92	06/30/92	Cadmium	1.9		1.0	mg/kg	7440-43-9	EPA200.7/SW6010
33093020	BSSB13-02	SOIL	06/03/92	06/30/92	Cobalt	14.3		7.8	mg/kg	7440-48-4	EPA200.7/SW6010
33093020	BSSB13-02	SOIL	06/03/92	06/30/92	Chromium	45.3		3.3	mg/kg	7440-47-3	EPA200.7/SW6010
33093020	BSSB13-02	SOIL	06/03/92	06/30/92	Copper	19.3		1.1	mg/kg	7440-50-8	EPA200.7/SW6010
33093020	BSSB13-02	SOIL	06/03/92	06/30/92	Iron	32000		8.3	mg/kg	7439-89-6	EPA200.7/SW6010
33093020	BSSB13-02	SOIL	06/03/92	06/30/92	Mercury	0.05	B	0.1	mg/kg	7439-97-6	SW7471
33093020	BSSB13-02	SOIL	06/03/92	06/30/92	Potassium	623	B	148.0	mg/kg	7440-09-7	EPA200.7/SW6010
33093020	BSSB13-02	SOIL	06/03/92	06/30/92	Magnesium	10100		11.4	mg/kg	7439-95-4	EPA200.7/SW6010
33093020	BSSB13-02	SOIL	06/03/92	06/30/92	Manganese	532		0.8	mg/kg	7439-96-5	EPA200.7/SW6010
33093020	BSSB13-02	SOIL	06/03/92	06/30/92	Sodium	263	B	18.6	mg/kg	7440-23-5	EPA200.7/SW6010
33093020	BSSB13-02	SOIL	06/03/92	06/30/92	Nickel	44.5		7.8	mg/kg	7440-02-0	EPA200.7/SW6010
33093020	BSSB13-02	SOIL	06/03/92	07/02/92	Lead	4.4		0.6	mg/kg	7439-92-1	EPA239.2/SW7421
33093020	BSSB13-02	SOIL	06/03/92	06/30/92	Antimony	2.5	< N	11.0	mg/kg	7440-36-0	EPA200.7/SW6010
33093020	BSSB13-02	SOIL	06/03/92	07/06/92	Selenium	0.12	BWN	0.4	mg/kg	7782-49-2	EPA270.2/SW7740
33093020	BSSB13-02	SOIL	06/03/92	07/06/92	Thallium	0.18	< W	0.8	mg/kg	7440-28-0	EPA279.2/SW7841
33093020	BSSB13-02	SOIL	06/03/92	06/30/92	Vanadium	70.2		1.3	mg/kg	7440-62-2	EPA200.7/SW6010
33093020	BSSB13-02	SOIL	06/03/92	06/30/92	Zinc	58.6		1.6	mg/kg	7440-66-6	EPA200.7/SW6010
33093M21	MATRIX SPIKE	SOIL	06/04/92	06/30/92	Silver	77.9		N/A	%rec	7440-22-4	EPA200.7/SW6010
33093M21	MATRIX SPIKE	SOIL	06/04/92	07/06/92	Arsenic	92.0		N/A	%rec	7440-38-2	EPA206.2/SW7060
33093M21	MATRIX SPIKE	SOIL	06/04/92	06/30/92	Barium	103.2		N/A	%rec	7440-39-3	EPA200.7/SW6010
33093M21	MATRIX SPIKE	SOIL	06/04/92	06/30/92	Beryllium	88.6		N/A	%rec	7440-41-7	EPA200.7/SW6010
33093M21	MATRIX SPIKE	SOIL	06/04/92	06/30/92	Cadmium	102.3		N/A	%rec	7440-43-9	EPA200.7/SW6010
33093M21	MATRIX SPIKE	SOIL	06/04/92	06/30/92	Cobalt	96.4		N/A	%rec	7440-48-4	EPA200.7/SW6010
33093M21	MATRIX SPIKE	SOIL	06/04/92	06/30/92	Chromium	108.4		N/A	%rec	7440-47-3	EPA200.7/SW6010
33093M21	MATRIX SPIKE	SOIL	06/04/92	06/30/92	Copper	96.6		N/A	%rec	7440-50-8	EPA200.7/SW6010
33093M21	MATRIX SPIKE	SOIL	06/04/92	06/30/92	Mercury	100.2		N/A	%rec	7439-97-6	SW7471
33093M21	MATRIX SPIKE	SOIL	06/04/92	06/30/92	Manganese	120.3		N/A	%rec	7439-96-5	EPA200.7/SW6010
33093M21	MATRIX SPIKE	SOIL	06/04/92	06/30/92	Nickel	91.2		N/A	%rec	7440-02-0	EPA200.7/SW6010
33093M21	MATRIX SPIKE	SOIL	06/04/92	07/02/92	Lead	86.1		N/A	%rec	7439-92-1	EPA239.2/SW7421
33093M21	MATRIX SPIKE	SOIL	06/04/92	06/30/92	Antimony	58.3	N	N/A	%rec	7440-36-0	EPA200.7/SW6010
33093M21	MATRIX SPIKE	SOIL	06/04/92	07/06/92	Selenium	71.2	N	N/A	%rec	7782-49-2	EPA270.2/SW7740
33093M21	MATRIX SPIKE	SOIL	06/04/92	07/06/92	Thallium	82.8		N/A	%rec	7440-28-0	EPA279.2/SW7841
33093M21	MATRIX SPIKE	SOIL	06/04/92	06/30/92	Vanadium	105.6		N/A	%rec	7440-62-2	EPA200.7/SW6010
33093M21	MATRIX SPIKE	SOIL	06/04/92	06/30/92	Zinc	91.6		N/A	%rec	7440-66-6	EPA200.7/SW6010
33093P22	DUPLICATE	SOIL	06/04/92	06/30/92	Silver	200.0		N/A	RPD	7440-22-4	EPA200.7/SW6010
33093P22	DUPLICATE	SOIL	06/04/92	06/30/92	Aluminum	1.3		N/A	RPD	7429-90-5	EPA200.7/SW6010
33093P22	DUPLICATE	SOIL	06/04/92	07/06/92	Arsenic	5.0		N/A	RPD	7440-38-2	EPA206.2/SW7060
33093P22	DUPLICATE	SOIL	06/04/92	06/30/92	Barium	6.3		N/A	RPD	7440-39-3	EPA200.7/SW6010
33093P22	DUPLICATE	SOIL	06/04/92	06/30/92	Beryllium	0.9		N/A	RPD	7440-41-7	EPA200.7/SW6010
33093P22	DUPLICATE	SOIL	06/04/92	06/30/92	Calcium	2.8		N/A	RPD	7440-70-2	EPA200.7/SW6010

33093P22	DUPLICATE	SOIL	06/04/92	06/30/92	Cadmium	4.9		N/A	RPD	7440-43-9	EPA200.7/SW6010
33093P22	DUPLICATE	SOIL	06/04/92	06/30/92	Cobalt	6.2		N/A	RPD	7440-48-4	EPA200.7/SW6010
33093P22	DUPLICATE	SOIL	06/04/92	06/30/92	Chromium	4.0		N/A	RPD	7440-47-3	EPA200.7/SW6010
33093P22	DUPLICATE	SOIL	06/04/92	06/30/92	Copper	5.8		N/A	RPD	7440-50-8	EPA200.7/SW6010
33093P22	DUPLICATE	SOIL	06/04/92	06/30/92	Iron	0.7		N/A	RPD	7439-89-6	EPA200.7/SW6010
33093P22	DUPLICATE	SOIL	06/04/92	06/30/92	Mercury	19.6		N/A	RPD	7439-97-6	SW7471
33093P22	DUPLICATE	SOIL	06/04/92	06/30/92	Potassium	3.7		N/A	RPD	7440-09-7	EPA200.7/SW6010
33093P22	DUPLICATE	SOIL	06/04/92	06/30/92	Magnesium	0.8		N/A	RPD	7439-95-4	EPA200.7/SW6010
33093P22	DUPLICATE	SOIL	06/04/92	06/30/92	Manganese	2.0		N/A	RPD	7439-96-5	EPA200.7/SW6010
33093P22	DUPLICATE	SOIL	06/04/92	06/30/92	Sodium	13.3		N/A	RPD	7440-23-5	EPA200.7/SW6010
33093P22	DUPLICATE	SOIL	06/04/92	06/30/92	Nickel	3.2		N/A	RPD	7440-02-0	EPA200.7/SW6010
33093P22	DUPLICATE	SOIL	06/04/92	07/02/92	Lead	1.2		N/A	RPD	7439-92-1	EPA239.2/SW7421
33093P22	DUPLICATE	SOIL	06/04/92	06/30/92	Antimony	200.0		N/A	RPD	7440-36-0	EPA200.7/SW6010
33093P22	DUPLICATE	SOIL	06/04/92	07/06/92	Selenium	7.1		N/A	RPD	7782-49-2	EPA270.2/SW7740
33093P22	DUPLICATE	SOIL	06/04/92	07/06/92	Thallium		NC	N/A	RPD	7440-28-0	EPA279.2/SW7841
33093P22	DUPLICATE	SOIL	06/04/92	06/30/92	Vanadium	2.3		N/A	RPD	7440-62-2	EPA200.7/SW6010
33093P22	DUPLICATE	SOIL	06/04/92	06/30/92	Zinc	0.0		N/A	RPD	7440-66-6	EPA200.7/SW6010
33093ZS1	Method Blank	SOIL BLANK	06/10/92	06/30/92	Silver	-0.347	B	1.4	mg/kg	7440-22-4	EPA200.7/SW6010
33093ZS1	Method Blank	SOIL BLANK	06/10/92	06/30/92	Aluminum	3.281	B	7.6	mg/kg	7429-90-5	EPA200.7/SW6010
33093ZS1	Method Blank	SOIL BLANK	06/10/92	07/06/92	Arsenic	0.140	<	0.7	mg/kg	7440-38-2	EPA206.2/SW7060
33093ZS1	Method Blank	SOIL BLANK	06/10/92	06/30/92	Barium	0.138	B	0.3	mg/kg	7440-39-3	EPA200.7/SW6010
33093ZS1	Method Blank	SOIL BLANK	06/10/92	06/30/92	Beryllium	0.160	<	0.8	mg/kg	7440-41-7	EPA200.7/SW6010
33093ZS1	Method Blank	SOIL BLANK	06/10/92	06/30/92	Calcium	14.074	B	39.5	mg/kg	7440-70-2	EPA200.7/SW6010
33093ZS1	Method Blank	SOIL BLANK	06/10/92	06/30/92	Cadmium	0.200	<	1.0	mg/kg	7440-43-9	EPA200.7/SW6010
33093ZS1	Method Blank	SOIL BLANK	06/10/92	06/30/92	Cobalt	1.560	<	7.8	mg/kg	7440-48-4	EPA200.7/SW6010
33093ZS1	Method Blank	SOIL BLANK	06/10/92	06/30/92	Chromium	0.682	B	3.3	mg/kg	7440-47-3	EPA200.7/SW6010
33093ZS1	Method Blank	SOIL BLANK	06/10/92	06/30/92	Copper	0.220	<	1.1	mg/kg	7440-50-8	EPA200.7/SW6010
33093ZS1	Method Blank	SOIL BLANK	06/10/92	06/30/92	Iron	1.660	<	8.3	mg/kg	7439-89-6	EPA200.7/SW6010
33093ZS1	Method Blank	SOIL BLANK	06/10/92	06/30/92	Mercury	0.028	<	0.1	mg/kg	7439-97-6	SW7471
33093ZS1	Method Blank	SOIL BLANK	06/10/92	06/30/92	Potassium	29.600	<	148.0	mg/kg	7440-09-7	EPA200.7/SW6010
33093ZS1	Method Blank	SOIL BLANK	06/10/92	06/30/92	Magnesium	2.280	<	11.4	mg/kg	7439-95-4	EPA200.7/SW6010
33093ZS1	Method Blank	SOIL BLANK	06/10/92	06/30/92	Manganese	0.160	<	0.8	mg/kg	7439-96-5	EPA200.7/SW6010
33093ZS1	Method Blank	SOIL BLANK	06/10/92	06/30/92	Sodium	3.720	<	18.6	mg/kg	7440-23-5	EPA200.7/SW6010
33093ZS1	Method Blank	SOIL BLANK	06/10/92	06/30/92	Nickel	1.560	<	7.8	mg/kg	7440-02-0	EPA200.7/SW6010
33093ZS1	Method Blank	SOIL BLANK	06/10/92	07/02/92	Lead	0.120	<	0.6	mg/kg	7439-92-1	EPA239.2/SW7421
33093ZS1	Method Blank	SOIL BLANK	06/10/92	06/30/92	Antimony	2.200	<	11.0	mg/kg	7440-36-0	EPA200.7/SW6010
33093ZS1	Method Blank	SOIL BLANK	06/10/92	07/06/92	Selenium	0.080	<	0.4	mg/kg	7782-49-2	EPA270.2/SW7740
33093ZS1	Method Blank	SOIL BLANK	06/10/92	07/06/92	Thallium	0.160	<	0.8	mg/kg	7440-28-0	EPA279.2/SW7841
33093ZS1	Method Blank	SOIL BLANK	06/10/92	06/30/92	Vanadium	0.260	<	1.3	mg/kg	7440-62-2	EPA200.7/SW6010
33093ZS1	Method Blank	SOIL BLANK	06/10/92	06/30/92	Zinc	0.570	B	1.6	mg/kg	7440-66-6	EPA200.7/SW6010
33094001	BSSB04-04	SOIL	06/04/92	07/07/92	Silver	0.59	B	1.4	mg/kg	7440-22-4	EPA200.7/SW6010
33094001	BSSB04-04	SOIL	06/04/92	07/07/92	Aluminum	11800		7.6	mg/kg	7429-90-5	EPA200.7/SW6010
33094001	BSSB04-04	SOIL	06/04/92	06/29/92	Arsenic	5.9		0.7	mg/kg	7440-38-2	EPA206.2/SW7060
33094001	BSSB04-04	SOIL	06/04/92	07/07/92	Barium	37.1	B	0.3	mg/kg	7440-39-3	EPA200.7/SW6010

33094001	BSSB04-04	SOIL	06/04/92	07/07/92	Beryllium	0.28	B	0.8	mg/kg	7440-41-7	EPA200.7/SW6010
33094001	BSSB04-04	SOIL	06/04/92	07/07/92	Calcium	4270	E	39.5	mg/kg	7440-70-2	EPA200.7/SW6010
33094001	BSSB04-04	SOIL	06/04/92	07/07/92	Cadmium	1.5		1.0	mg/kg	7440-43-9	EPA200.7/SW6010
33094001	BSSB04-04	SOIL	06/04/92	07/07/92	Cobalt	10.3	B	7.8	mg/kg	7440-48-4	EPA200.7/SW6010
33094001	BSSB04-04	SOIL	06/04/92	07/07/92	Chromium	24.0		3.3	mg/kg	7440-47-3	EPA200.7/SW6010
33094001	BSSB04-04	SOIL	06/04/92	07/07/92	Copper	33.6		1.1	mg/kg	7440-50-8	EPA200.7/SW6010
33094001	BSSB04-04	SOIL	06/04/92	07/07/92	Iron	24600		8.3	mg/kg	7439-89-6	EPA200.7/SW6010
33094001	BSSB04-04	SOIL	06/04/92	06/26/92	Mercury	0.09		0.1	mg/kg	7439-97-6	SW7471
33094001	BSSB04-04	SOIL	06/04/92	07/07/92	Potassium	575	B	148.0	mg/kg	7440-09-7	EPA200.7/SW6010
33094001	BSSB04-04	SOIL	06/04/92	07/07/92	Magnesium	7370		11.4	mg/kg	7439-95-4	EPA200.7/SW6010
33094001	BSSB04-04	SOIL	06/04/92	07/07/92	Manganese	516		0.8	mg/kg	7439-96-5	EPA200.7/SW6010
33094001	BSSB04-04	SOIL	06/04/92	07/07/92	Sodium	190	BE	18.6	mg/kg	7440-23-5	EPA200.7/SW6010
33094001	BSSB04-04	SOIL	06/04/92	07/07/92	Nickel	28.5		7.8	mg/kg	7440-02-0	EPA200.7/SW6010
33094001	BSSB04-04	SOIL	06/04/92	06/29/92	Lead	4.6		0.6	mg/kg	7439-92-1	EPA239.2/SW7421
33094001	BSSB04-04	SOIL	06/04/92	07/07/92	Antimony	2.3	< N	11.0	mg/kg	7440-36-0	EPA200.7/SW6010
33094001	BSSB04-04	SOIL	06/04/92	06/26/92	Selenium	0.08	< W	0.4	mg/kg	7782-49-2	EPA270.2/SW7740
33094001	BSSB04-04	SOIL	06/04/92	06/29/92	Thallium	0.17	<	0.8	mg/kg	7440-28-0	EPA279.2/SW7841
33094001	BSSB04-04	SOIL	06/04/92	07/07/92	Vanadium	42.6		1.3	mg/kg	7440-62-2	EPA200.7/SW6010
33094001	BSSB04-04	SOIL	06/04/92	07/07/92	Zinc	55.0		1.6	mg/kg	7440-66-6	EPA200.7/SW6010
33094002	BSSB06-01	SOIL	06/02/92	07/07/92	Silver	0.80	B	1.4	mg/kg	7440-22-4	EPA200.7/SW6010
33094002	BSSB06-01	SOIL	06/02/92	07/07/92	Aluminum	19900		7.6	mg/kg	7429-90-5	EPA200.7/SW6010
33094002	BSSB06-01	SOIL	06/02/92	06/29/92	Arsenic	8.2		0.7	mg/kg	7440-38-2	EPA206.2/SW7060
33094002	BSSB06-01	SOIL	06/02/92	07/07/92	Barium	75.9		0.3	mg/kg	7440-39-3	EPA200.7/SW6010
33094002	BSSB06-01	SOIL	06/02/92	07/07/92	Beryllium	0.36	B	0.8	mg/kg	7440-41-7	EPA200.7/SW6010
33094002	BSSB06-01	SOIL	06/02/92	07/07/92	Calcium	2810	E	39.5	mg/kg	7440-70-2	EPA200.7/SW6010
33094002	BSSB06-01	SOIL	06/02/92	07/07/92	Cadmium	2.0		1.0	mg/kg	7440-43-9	EPA200.7/SW6010
33094002	BSSB06-01	SOIL	06/02/92	07/07/92	Cobalt	12.4	B	7.8	mg/kg	7440-48-4	EPA200.7/SW6010
33094002	BSSB06-01	SOIL	06/02/92	07/07/92	Chromium	30.0		3.3	mg/kg	7440-47-3	EPA200.7/SW6010
33094002	BSSB06-01	SOIL	06/02/92	07/07/92	Copper	16.0		1.1	mg/kg	7440-50-8	EPA200.7/SW6010
33094002	BSSB06-01	SOIL	06/02/92	07/07/92	Iron	30000		8.3	mg/kg	7439-89-6	EPA200.7/SW6010
33094002	BSSB06-01	SOIL	06/02/92	06/26/92	Mercury	0.11		0.1	mg/kg	7439-97-6	SW7471
33094002	BSSB06-01	SOIL	06/02/92	07/07/92	Potassium	442	B	148.0	mg/kg	7440-09-7	EPA200.7/SW6010
33094002	BSSB06-01	SOIL	06/02/92	07/07/92	Magnesium	5490		11.4	mg/kg	7439-95-4	EPA200.7/SW6010
33094002	BSSB06-01	SOIL	06/02/92	07/07/92	Manganese	444		0.8	mg/kg	7439-96-5	EPA200.7/SW6010
33094002	BSSB06-01	SOIL	06/02/92	07/07/92	Sodium	256	BE	18.6	mg/kg	7440-23-5	EPA200.7/SW6010
33094002	BSSB06-01	SOIL	06/02/92	07/07/92	Nickel	24.8		7.8	mg/kg	7440-02-0	EPA200.7/SW6010
33094002	BSSB06-01	SOIL	06/02/92	06/29/92	Lead	4.8		0.6	mg/kg	7439-92-1	EPA239.2/SW7421
33094002	BSSB06-01	SOIL	06/02/92	07/07/92	Antimony	3.1	< N	11.0	mg/kg	7440-36-0	EPA200.7/SW6010
33094002	BSSB06-01	SOIL	06/02/92	06/26/92	Selenium	0.15	B	0.4	mg/kg	7782-49-2	EPA270.2/SW7740
33094002	BSSB06-01	SOIL	06/02/92	06/29/92	Thallium	0.23	<	0.8	mg/kg	7440-28-0	EPA279.2/SW7841
33094002	BSSB06-01	SOIL	06/02/92	07/07/92	Vanadium	63.1		1.3	mg/kg	7440-62-2	EPA200.7/SW6010
33094002	BSSB06-01	SOIL	06/02/92	07/07/92	Zinc	51.3		1.6	mg/kg	7440-66-6	EPA200.7/SW6010
33094003	BSSB06-02	SOIL	06/02/92	07/07/92	Silver	0.73	B	1.4	mg/kg	7440-22-4	EPA200.7/SW6010
33094003	BSSB06-02	SOIL	06/02/92	07/07/92	Aluminum	17200		7.6	mg/kg	7429-90-5	EPA200.7/SW6010
33094003	BSSB06-02	SOIL	06/02/92	06/29/92	Arsenic	8.9		0.7	mg/kg	7440-38-2	EPA206.2/SW7060

33094003	BSSB06-02	SOIL	06/02/92	07/07/92	Barium	78.6		0.3	mg/kg	7440-39-3	EPA200.7/SW6010
33094003	BSSB06-02	SOIL	06/02/92	07/07/92	Beryllium	0.42	B	0.8	mg/kg	7440-41-7	EPA200.7/SW6010
33094003	BSSB06-02	SOIL	06/02/92	07/07/92	Calcium	4060	E	39.5	mg/kg	7440-70-2	EPA200.7/SW6010
33094003	BSSB06-02	SOIL	06/02/92	07/07/92	Cadmium	1.9		1.0	mg/kg	7440-43-9	EPA200.7/SW6010
33094003	BSSB06-02	SOIL	06/02/92	07/07/92	Cobalt	12.2	B	7.8	mg/kg	7440-48-4	EPA200.7/SW6010
33094003	BSSB06-02	SOIL	06/02/92	07/07/92	Chromium	30.2		3.3	mg/kg	7440-47-3	EPA200.7/SW6010
33094003	BSSB06-02	SOIL	06/02/92	07/07/92	Copper	13.6		1.1	mg/kg	7440-50-8	EPA200.7/SW6010
33094003	BSSB06-02	SOIL	06/02/92	07/07/92	Iron	30400		8.3	mg/kg	7439-89-6	EPA200.7/SW6010
33094003	BSSB06-02	SOIL	06/02/92	06/26/92	Mercury	0.08	B	0.1	mg/kg	7439-97-6	SW7471
33094003	BSSB06-02	SOIL	06/02/92	07/07/92	Potassium	626	B	148.0	mg/kg	7440-09-7	EPA200.7/SW6010
33094003	BSSB06-02	SOIL	06/02/92	07/07/92	Magnesium	5630		11.4	mg/kg	7439-95-4	EPA200.7/SW6010
33094003	BSSB06-02	SOIL	06/02/92	07/07/92	Manganese	560		0.8	mg/kg	7439-96-5	EPA200.7/SW6010
33094003	BSSB06-02	SOIL	06/02/92	07/07/92	Sodium	277	BE	18.6	mg/kg	7440-23-5	EPA200.7/SW6010
33094003	BSSB06-02	SOIL	06/02/92	07/07/92	Nickel	19.1		7.8	mg/kg	7440-02-0	EPA200.7/SW6010
33094003	BSSB06-02	SOIL	06/02/92	06/29/92	Lead	5.9		0.6	mg/kg	7439-92-1	EPA239.2/SW7421
33094003	BSSB06-02	SOIL	06/02/92	07/07/92	Antimony	3.1	< N	11.0	mg/kg	7440-36-0	EPA200.7/SW6010
33094003	BSSB06-02	SOIL	06/02/92	06/26/92	Selenium	0.25	BW	0.4	mg/kg	7782-49-2	EPA270.2/SW7740
33094003	BSSB06-02	SOIL	06/02/92	06/29/92	Thallium	0.23	<	0.8	mg/kg	7440-28-0	EPA279.2/SW7841
33094003	BSSB06-02	SOIL	06/02/92	07/07/92	Vanadium	77.8		1.3	mg/kg	7440-62-2	EPA200.7/SW6010
33094003	BSSB06-02	SOIL	06/02/92	07/07/92	Zinc	49.6		1.6	mg/kg	7440-66-6	EPA200.7/SW6010
33094004	BSSB06-03	SOIL	06/02/92	07/07/92	Silver	0.54	B	1.4	mg/kg	7440-22-4	EPA200.7/SW6010
33094004	BSSB06-03	SOIL	06/02/92	07/07/92	Aluminum	21500		7.6	mg/kg	7429-90-5	EPA200.7/SW6010
33094004	BSSB06-03	SOIL	06/02/92	06/29/92	Arsenic	6.9		0.7	mg/kg	7440-38-2	EPA206.2/SW7060
33094004	BSSB06-03	SOIL	06/02/92	07/07/92	Barium	95.7		0.3	mg/kg	7440-39-3	EPA200.7/SW6010
33094004	BSSB06-03	SOIL	06/02/92	07/07/92	Beryllium	0.51	B	0.8	mg/kg	7440-41-7	EPA200.7/SW6010
33094004	BSSB06-03	SOIL	06/02/92	07/07/92	Calcium	2860	E	39.5	mg/kg	7440-70-2	EPA200.7/SW6010
33094004	BSSB06-03	SOIL	06/02/92	07/07/92	Cadmium	1.6		1.0	mg/kg	7440-43-9	EPA200.7/SW6010
33094004	BSSB06-03	SOIL	06/02/92	07/07/92	Cobalt	12.8	B	7.8	mg/kg	7440-48-4	EPA200.7/SW6010
33094004	BSSB06-03	SOIL	06/02/92	07/07/92	Chromium	30.2		3.3	mg/kg	7440-47-3	EPA200.7/SW6010
33094004	BSSB06-03	SOIL	06/02/92	07/07/92	Copper	20.7		1.1	mg/kg	7440-50-8	EPA200.7/SW6010
33094004	BSSB06-03	SOIL	06/02/92	07/07/92	Iron	29200		8.3	mg/kg	7439-89-6	EPA200.7/SW6010
33094004	BSSB06-03	SOIL	06/02/92	06/26/92	Mercury	0.11		0.1	mg/kg	7439-97-6	SW7471
33094004	BSSB06-03	SOIL	06/02/92	07/07/92	Potassium	424	B	148.0	mg/kg	7440-09-7	EPA200.7/SW6010
33094004	BSSB06-03	SOIL	06/02/92	07/07/92	Magnesium	5810		11.4	mg/kg	7439-95-4	EPA200.7/SW6010
33094004	BSSB06-03	SOIL	06/02/92	07/07/92	Manganese	464		0.8	mg/kg	7439-96-5	EPA200.7/SW6010
33094004	BSSB06-03	SOIL	06/02/92	07/07/92	Sodium	254	BE	18.6	mg/kg	7440-23-5	EPA200.7/SW6010
33094004	BSSB06-03	SOIL	06/02/92	07/07/92	Nickel	29.0		7.8	mg/kg	7440-02-0	EPA200.7/SW6010
33094004	BSSB06-03	SOIL	06/02/92	06/29/92	Lead	4.6		0.6	mg/kg	7439-92-1	EPA239.2/SW7421
33094004	BSSB06-03	SOIL	06/02/92	07/07/92	Antimony	2.9	< N	11.0	mg/kg	7440-36-0	EPA200.7/SW6010
33094004	BSSB06-03	SOIL	06/02/92	06/26/92	Selenium	0.19	BW	0.4	mg/kg	7782-49-2	EPA270.2/SW7740
33094004	BSSB06-03	SOIL	06/02/92	06/29/92	Thallium	0.21	<	0.8	mg/kg	7440-28-0	EPA279.2/SW7841
33094004	BSSB06-03	SOIL	06/02/92	07/07/92	Vanadium	57.1		1.3	mg/kg	7440-62-2	EPA200.7/SW6010
33094004	BSSB06-03	SOIL	06/02/92	07/07/92	Zinc	50.7		1.6	mg/kg	7440-66-6	EPA200.7/SW6010
33094005	BSSB06-04	SOIL	06/02/92	07/07/92	Silver	0.76	B	1.4	mg/kg	7440-22-4	EPA200.7/SW6010
33094005	BSSB06-04	SOIL	06/02/92	07/07/92	Aluminum	22200		7.6	mg/kg	7429-90-5	EPA200.7/SW6010

33094005	BSSB06-04	SOIL	06/02/92	06/29/92	Arsenic	8.1		0.7	mg/kg	7440-38-2	EPA206.2/SW7060
33094005	BSSB06-04	SOIL	06/02/92	07/07/92	Barium	123		0.3	mg/kg	7440-39-3	EPA200.7/SW6010
33094005	BSSB06-04	SOIL	06/02/92	07/07/92	Beryllium	0.49	B	0.8	mg/kg	7440-41-7	EPA200.7/SW6010
33094005	BSSB06-04	SOIL	06/02/92	07/07/92	Calcium	4770	E	39.5	mg/kg	7440-70-2	EPA200.7/SW6010
33094005	BSSB06-04	SOIL	06/02/92	07/07/92	Cadmium	2.0		1.0	mg/kg	7440-43-9	EPA200.7/SW6010
33094005	BSSB06-04	SOIL	06/02/92	07/07/92	Cobalt	15.1		7.8	mg/kg	7440-48-4	EPA200.7/SW6010
33094005	BSSB06-04	SOIL	06/02/92	07/07/92	Chromium	37.6		3.3	mg/kg	7440-47-3	EPA200.7/SW6010
33094005	BSSB06-04	SOIL	06/02/92	07/07/92	Copper	27.4		1.1	mg/kg	7440-50-8	EPA200.7/SW6010
33094005	BSSB06-04	SOIL	06/02/92	07/07/92	Iron	31200		8.3	mg/kg	7439-89-6	EPA200.7/SW6010
33094005	BSSB06-04	SOIL	06/02/92	06/26/92	Mercury	0.08		0.1	mg/kg	7439-97-6	SW7471
33094005	BSSB06-04	SOIL	06/02/92	07/07/92	Potassium	835	B	148.0	mg/kg	7440-09-7	EPA200.7/SW6010
33094005	BSSB06-04	SOIL	06/02/92	07/07/92	Magnesium	8090		11.4	mg/kg	7439-95-4	EPA200.7/SW6010
33094005	BSSB06-04	SOIL	06/02/92	07/07/92	Manganese	602		0.8	mg/kg	7439-96-5	EPA200.7/SW6010
33094005	BSSB06-04	SOIL	06/02/92	07/07/92	Sodium	296	BE	18.6	mg/kg	7440-23-5	EPA200.7/SW6010
33094005	BSSB06-04	SOIL	06/02/92	07/07/92	Nickel	38.4		7.8	mg/kg	7440-02-0	EPA200.7/SW6010
33094005	BSSB06-04	SOIL	06/02/92	06/29/92	Lead	5.2		0.6	mg/kg	7439-92-1	EPA239.2/SW7421
33094005	BSSB06-04	SOIL	06/02/92	07/07/92	Antimony	3.0	BN	11.0	mg/kg	7440-36-0	EPA200.7/SW6010
33094005	BSSB06-04	SOIL	06/02/92	06/26/92	Selenium	0.10	<	0.4	mg/kg	7782-49-2	EPA270.2/SW7740
33094005	BSSB06-04	SOIL	06/02/92	06/29/92	Thallium	0.21	<	0.8	mg/kg	7440-28-0	EPA279.2/SW7841
33094005	BSSB06-04	SOIL	06/02/92	07/07/92	Vanadium	66.5		1.3	mg/kg	7440-62-2	EPA200.7/SW6010
33094005	BSSB06-04	SOIL	06/02/92	07/07/92	Zinc	59.2		1.6	mg/kg	7440-66-6	EPA200.7/SW6010
33094006	BSSB01-01	SOIL	06/08/92	07/07/92	Silver	0.48	<	1.4	mg/kg	7440-22-4	EPA200.7/SW6010
33094006	BSSB01-01	SOIL	06/08/92	07/07/92	Aluminum	4750		7.6	mg/kg	7429-90-5	EPA200.7/SW6010
33094006	BSSB01-01	SOIL	06/08/92	06/29/92	Arsenic	3.9		0.7	mg/kg	7440-38-2	EPA206.2/SW7060
33094006	BSSB01-01	SOIL	06/08/92	07/07/92	Barium	80.0		0.3	mg/kg	7440-39-3	EPA200.7/SW6010
33094006	BSSB01-01	SOIL	06/08/92	07/07/92	Beryllium	0.27	<	0.8	mg/kg	7440-41-7	EPA200.7/SW6010
33094006	BSSB01-01	SOIL	06/08/92	07/07/92	Calcium	2990	E	39.5	mg/kg	7440-70-2	EPA200.7/SW6010
33094006	BSSB01-01	SOIL	06/08/92	07/07/92	Cadmium	0.34	<	1.0	mg/kg	7440-43-9	EPA200.7/SW6010
33094006	BSSB01-01	SOIL	06/08/92	07/07/92	Cobalt	2.6	<	7.8	mg/kg	7440-48-4	EPA200.7/SW6010
33094006	BSSB01-01	SOIL	06/08/92	07/07/92	Chromium	10.8		3.3	mg/kg	7440-47-3	EPA200.7/SW6010
33094006	BSSB01-01	SOIL	06/08/92	07/07/92	Copper	14.3		1.1	mg/kg	7440-50-8	EPA200.7/SW6010
33094006	BSSB01-01	SOIL	06/08/92	07/07/92	Iron	8970		8.3	mg/kg	7439-89-6	EPA200.7/SW6010
33094006	BSSB01-01	SOIL	06/08/92	06/26/92	Mercury	0.15		0.1	mg/kg	7439-97-6	SW7471
33094006	BSSB01-01	SOIL	06/08/92	07/07/92	Potassium	244	B	148.0	mg/kg	7440-09-7	EPA200.7/SW6010
33094006	BSSB01-01	SOIL	06/08/92	07/07/92	Magnesium	769	B	11.4	mg/kg	7439-95-4	EPA200.7/SW6010
33094006	BSSB01-01	SOIL	06/08/92	07/07/92	Manganese	67.8		0.8	mg/kg	7439-96-5	EPA200.7/SW6010
33094006	BSSB01-01	SOIL	06/08/92	07/07/92	Sodium	381	BE	18.6	mg/kg	7440-23-5	EPA200.7/SW6010
33094006	BSSB01-01	SOIL	06/08/92	07/07/92	Nickel	2.6	<	7.8	mg/kg	7440-02-0	EPA200.7/SW6010
33094006	BSSB01-01	SOIL	06/08/92	06/29/92	Lead	4.3		0.6	mg/kg	7439-92-1	EPA239.2/SW7421
33094006	BSSB01-01	SOIL	06/08/92	07/07/92	Antimony	3.7	< N	11.0	mg/kg	7440-36-0	EPA200.7/SW6010
33094006	BSSB01-01	SOIL	06/08/92	06/26/92	Selenium	0.41	B	0.4	mg/kg	7782-49-2	EPA270.2/SW7740
33094006	BSSB01-01	SOIL	06/08/92	06/29/92	Thallium	0.27	<	0.8	mg/kg	7440-28-0	EPA279.2/SW7841
33094006	BSSB01-01	SOIL	06/08/92	07/07/92	Vanadium	21.5		1.3	mg/kg	7440-62-2	EPA200.7/SW6010
33094006	BSSB01-01	SOIL	06/08/92	07/07/92	Zinc	12.9		1.6	mg/kg	7440-66-6	EPA200.7/SW6010
33094007	BSSB01-02	SOIL	06/08/92	07/07/92	Silver	0.53	B	1.4	mg/kg	7440-22-4	EPA200.7/SW6010

33094007	BSSB01-02	SOIL	06/08/92	07/07/92	Aluminum	18200		7.6	mg/kg	7429-90-5	EPA200.7/SW6010
33094007	BSSB01-02	SOIL	06/08/92	06/29/92	Arsenic	6.7		0.7	mg/kg	7440-38-2	EPA206.2/SW7060
33094007	BSSB01-02	SOIL	06/08/92	07/07/92	Barium	94.2		0.3	mg/kg	7440-39-3	EPA200.7/SW6010
33094007	BSSB01-02	SOIL	06/08/92	07/07/92	Beryllium	0.33	B	0.8	mg/kg	7440-41-7	EPA200.7/SW6010
33094007	BSSB01-02	SOIL	06/08/92	07/07/92	Calcium	2850	E	39.5	mg/kg	7440-70-2	EPA200.7/SW6010
33094007	BSSB01-02	SOIL	06/08/92	07/07/92	Cadmium	1.4		1.0	mg/kg	7440-43-9	EPA200.7/SW6010
33094007	BSSB01-02	SOIL	06/08/92	07/07/92	Cobalt	9.0	B	7.8	mg/kg	7440-48-4	EPA200.7/SW6010
33094007	BSSB01-02	SOIL	06/08/92	07/07/92	Chromium	26.8		3.3	mg/kg	7440-47-3	EPA200.7/SW6010
33094007	BSSB01-02	SOIL	06/08/92	07/07/92	Copper	17.8		1.1	mg/kg	7440-50-8	EPA200.7/SW6010
33094007	BSSB01-02	SOIL	06/08/92	07/07/92	Iron	27200		8.3	mg/kg	7439-89-6	EPA200.7/SW6010
33094007	BSSB01-02	SOIL	06/08/92	06/26/92	Mercury	0.22		0.1	mg/kg	7439-97-6	SW7471
33094007	BSSB01-02	SOIL	06/08/92	07/07/92	Potassium	236	B	148.0	mg/kg	7440-09-7	EPA200.7/SW6010
33094007	BSSB01-02	SOIL	06/08/92	07/07/92	Magnesium	5210		11.4	mg/kg	7439-95-4	EPA200.7/SW6010
33094007	BSSB01-02	SOIL	06/08/92	07/07/92	Manganese	290		0.8	mg/kg	7439-96-5	EPA200.7/SW6010
33094007	BSSB01-02	SOIL	06/08/92	07/07/92	Sodium	233	BE	18.6	mg/kg	7440-23-5	EPA200.7/SW6010
33094007	BSSB01-02	SOIL	06/08/92	07/07/92	Nickel	24.3		7.8	mg/kg	7440-02-0	EPA200.7/SW6010
33094007	BSSB01-02	SOIL	06/08/92	06/29/92	Lead	5.3		0.6	mg/kg	7439-92-1	EPA239.2/SW7421
33094007	BSSB01-02	SOIL	06/08/92	07/07/92	Antimony	2.8	< N	11.0	mg/kg	7440-36-0	EPA200.7/SW6010
33094007	BSSB01-02	SOIL	06/08/92	06/26/92	Selenium	0.16	B	0.4	mg/kg	7782-49-2	EPA270.2/SW7740
33094007	BSSB01-02	SOIL	06/08/92	06/29/92	Thallium	0.21	<	0.8	mg/kg	7440-28-0	EPA279.2/SW7841
33094007	BSSB01-02	SOIL	06/08/92	07/07/92	Vanadium	57.5		1.3	mg/kg	7440-62-2	EPA200.7/SW6010
33094007	BSSB01-02	SOIL	06/08/92	07/07/92	Zinc	41.2		1.6	mg/kg	7440-66-6	EPA200.7/SW6010
33094008	BSSB01-03	SOIL	06/08/92	07/07/92	Silver	0.46	B	1.4	mg/kg	7440-22-4	EPA200.7/SW6010
33094008	BSSB01-03	SOIL	06/08/92	07/07/92	Aluminum	15200		7.6	mg/kg	7429-90-5	EPA200.7/SW6010
33094008	BSSB01-03	SOIL	06/08/92	06/29/92	Arsenic	8.3		0.7	mg/kg	7440-38-2	EPA206.2/SW7060
33094008	BSSB01-03	SOIL	06/08/92	07/07/92	Barium	67.0		0.3	mg/kg	7440-39-3	EPA200.7/SW6010
33094008	BSSB01-03	SOIL	06/08/92	07/07/92	Beryllium	0.31	B	0.8	mg/kg	7440-41-7	EPA200.7/SW6010
33094008	BSSB01-03	SOIL	06/08/92	07/07/92	Calcium	4820	E	39.5	mg/kg	7440-70-2	EPA200.7/SW6010
33094008	BSSB01-03	SOIL	06/08/92	07/07/92	Cadmium	1.6		1.0	mg/kg	7440-43-9	EPA200.7/SW6010
33094008	BSSB01-03	SOIL	06/08/92	07/07/92	Cobalt	10.6	B	7.8	mg/kg	7440-48-4	EPA200.7/SW6010
33094008	BSSB01-03	SOIL	06/08/92	07/07/92	Chromium	28.4		3.3	mg/kg	7440-47-3	EPA200.7/SW6010
33094008	BSSB01-03	SOIL	06/08/92	07/07/92	Copper	30.7		1.1	mg/kg	7440-50-8	EPA200.7/SW6010
33094008	BSSB01-03	SOIL	06/08/92	07/07/92	Iron	24900		8.3	mg/kg	7439-89-6	EPA200.7/SW6010
33094008	BSSB01-03	SOIL	06/08/92	06/26/92	Mercury	0.14		0.1	mg/kg	7439-97-6	SW7471
33094008	BSSB01-03	SOIL	06/08/92	07/07/92	Potassium	823	B	148.0	mg/kg	7440-09-7	EPA200.7/SW6010
33094008	BSSB01-03	SOIL	06/08/92	07/07/92	Magnesium	7620		11.4	mg/kg	7439-95-4	EPA200.7/SW6010
33094008	BSSB01-03	SOIL	06/08/92	07/07/92	Manganese	530		0.8	mg/kg	7439-96-5	EPA200.7/SW6010
33094008	BSSB01-03	SOIL	06/08/92	07/07/92	Sodium	273	BE	18.6	mg/kg	7440-23-5	EPA200.7/SW6010
33094008	BSSB01-03	SOIL	06/08/92	07/07/92	Nickel	32.8		7.8	mg/kg	7440-02-0	EPA200.7/SW6010
33094008	BSSB01-03	SOIL	06/08/92	06/29/92	Lead	5.9		0.6	mg/kg	7439-92-1	EPA239.2/SW7421
33094008	BSSB01-03	SOIL	06/08/92	07/07/92	Antimony	2.5	< N	11.0	mg/kg	7440-36-0	EPA200.7/SW6010
33094008	BSSB01-03	SOIL	06/08/92	06/26/92	Selenium	0.09	< W	0.4	mg/kg	7782-49-2	EPA270.2/SW7740
33094008	BSSB01-03	SOIL	06/08/92	06/29/92	Thallium	0.18	<	0.8	mg/kg	7440-28-0	EPA279.2/SW7841
33094008	BSSB01-03	SOIL	06/08/92	07/07/92	Vanadium	44.7		1.3	mg/kg	7440-62-2	EPA200.7/SW6010
33094008	BSSB01-03	SOIL	06/08/92	07/07/92	Zinc	58.5		1.6	mg/kg	7440-66-6	EPA200.7/SW6010

33094009	BSSB01-04	SOIL	06/08/92	07/07/92	Silver	0.70	B	1.4	mg/kg	7440-22-4	EPA200.7/SW6010
33094009	BSSB01-04	SOIL	06/08/92	07/07/92	Aluminum	13800		7.6	mg/kg	7429-90-5	EPA200.7/SW6010
33094009	BSSB01-04	SOIL	06/08/92	06/29/92	Arsenic	8.4		0.7	mg/kg	7440-38-2	EPA206.2/SW7060
33094009	BSSB01-04	SOIL	06/08/92	07/07/92	Barium	65.2		0.3	mg/kg	7440-39-3	EPA200.7/SW6010
33094009	BSSB01-04	SOIL	06/08/92	07/07/92	Beryllium	0.25	B	0.8	mg/kg	7440-41-7	EPA200.7/SW6010
33094009	BSSB01-04	SOIL	06/08/92	07/07/92	Calcium	3870	E	39.5	mg/kg	7440-70-2	EPA200.7/SW6010
33094009	BSSB01-04	SOIL	06/08/92	07/07/92	Cadmium	1.7		1.0	mg/kg	7440-43-9	EPA200.7/SW6010
33094009	BSSB01-04	SOIL	06/08/92	07/07/92	Cobalt	13.1		7.8	mg/kg	7440-48-4	EPA200.7/SW6010
33094009	BSSB01-04	SOIL	06/08/92	07/07/92	Chromium	30.5		3.3	mg/kg	7440-47-3	EPA200.7/SW6010
33094009	BSSB01-04	SOIL	06/08/92	07/07/92	Copper	30.2		1.1	mg/kg	7440-50-8	EPA200.7/SW6010
33094009	BSSB01-04	SOIL	06/08/92	07/07/92	Iron	24000		8.3	mg/kg	7439-89-6	EPA200.7/SW6010
33094009	BSSB01-04	SOIL	06/08/92	06/26/92	Mercury	0.19		0.1	mg/kg	7439-97-6	SW7471
33094009	BSSB01-04	SOIL	06/08/92	07/07/92	Potassium	747	B	148.0	mg/kg	7440-09-7	EPA200.7/SW6010
33094009	BSSB01-04	SOIL	06/08/92	07/07/92	Magnesium	8400		11.4	mg/kg	7439-95-4	EPA200.7/SW6010
33094009	BSSB01-04	SOIL	06/08/92	07/07/92	Manganese	600		0.8	mg/kg	7439-96-5	EPA200.7/SW6010
33094009	BSSB01-04	SOIL	06/08/92	07/07/92	Sodium	236	BE	18.6	mg/kg	7440-23-5	EPA200.7/SW6010
33094009	BSSB01-04	SOIL	06/08/92	07/07/92	Nickel	42.7		7.8	mg/kg	7440-02-0	EPA200.7/SW6010
33094009	BSSB01-04	SOIL	06/08/92	06/29/92	Lead	5.3		0.6	mg/kg	7439-92-1	EPA239.2/SW7421
33094009	BSSB01-04	SOIL	06/08/92	07/07/92	Antimony	2.5	< N	11.0	mg/kg	7440-36-0	EPA200.7/SW6010
33094009	BSSB01-04	SOIL	06/08/92	06/26/92	Selenium	0.09	<	0.4	mg/kg	7782-49-2	EPA270.2/SW7740
33094009	BSSB01-04	SOIL	06/08/92	06/29/92	Thallium	0.18	<	0.8	mg/kg	7440-28-0	EPA279.2/SW7841
33094009	BSSB01-04	SOIL	06/08/92	07/07/92	Vanadium	38.7		1.3	mg/kg	7440-62-2	EPA200.7/SW6010
33094009	BSSB01-04	SOIL	06/08/92	07/07/92	Zinc	58.3		1.6	mg/kg	7440-66-6	EPA200.7/SW6010
33094010	BSSB03-01	SOIL	06/08/92	07/07/92	Silver	0.60	B	1.4	mg/kg	7440-22-4	EPA200.7/SW6010
33094010	BSSB03-01	SOIL	06/08/92	07/07/92	Aluminum	10000		7.6	mg/kg	7429-90-5	EPA200.7/SW6010
33094010	BSSB03-01	SOIL	06/08/92	06/29/92	Arsenic	6.4		0.7	mg/kg	7440-38-2	EPA206.2/SW7060
33094010	BSSB03-01	SOIL	06/08/92	07/07/92	Barium	114		0.3	mg/kg	7440-39-3	EPA200.7/SW6010
33094010	BSSB03-01	SOIL	06/08/92	07/07/92	Beryllium	0.24	<	0.8	mg/kg	7440-41-7	EPA200.7/SW6010
33094010	BSSB03-01	SOIL	06/08/92	07/07/92	Calcium	2140	E	39.5	mg/kg	7440-70-2	EPA200.7/SW6010
33094010	BSSB03-01	SOIL	06/08/92	07/07/92	Cadmium	0.82	B	1.0	mg/kg	7440-43-9	EPA200.7/SW6010
33094010	BSSB03-01	SOIL	06/08/92	07/07/92	Cobalt	4.0	B	7.8	mg/kg	7440-48-4	EPA200.7/SW6010
33094010	BSSB03-01	SOIL	06/08/92	07/07/92	Chromium	14.1		3.3	mg/kg	7440-47-3	EPA200.7/SW6010
33094010	BSSB03-01	SOIL	06/08/92	07/07/92	Copper	7.8		1.1	mg/kg	7440-50-8	EPA200.7/SW6010
33094010	BSSB03-01	SOIL	06/08/92	07/07/92	Iron	16500		8.3	mg/kg	7439-89-6	EPA200.7/SW6010
33094010	BSSB03-01	SOIL	06/08/92	06/26/92	Mercury	0.09		0.1	mg/kg	7439-97-6	SW7471
33094010	BSSB03-01	SOIL	06/08/92	07/07/92	Potassium	327	B	148.0	mg/kg	7440-09-7	EPA200.7/SW6010
33094010	BSSB03-01	SOIL	06/08/92	07/07/92	Magnesium	865	B	11.4	mg/kg	7439-95-4	EPA200.7/SW6010
33094010	BSSB03-01	SOIL	06/08/92	07/07/92	Manganese	125		0.8	mg/kg	7439-96-5	EPA200.7/SW6010
33094010	BSSB03-01	SOIL	06/08/92	07/07/92	Sodium	272	BE	18.6	mg/kg	7440-23-5	EPA200.7/SW6010
33094010	BSSB03-01	SOIL	06/08/92	07/07/92	Nickel	4.9	B	7.8	mg/kg	7440-02-0	EPA200.7/SW6010
33094010	BSSB03-01	SOIL	06/08/92	06/29/92	Lead	6.2		0.6	mg/kg	7439-92-1	EPA239.2/SW7421
33094010	BSSB03-01	SOIL	06/08/92	07/07/92	Antimony	3.3	< N	11.0	mg/kg	7440-36-0	EPA200.7/SW6010
33094010	BSSB03-01	SOIL	06/08/92	06/26/92	Selenium	0.29	B	0.4	mg/kg	7782-49-2	EPA270.2/SW7740
33094010	BSSB03-01	SOIL	06/08/92	06/29/92	Thallium	0.24	<	0.8	mg/kg	7440-28-0	EPA279.2/SW7841
33094010	BSSB03-01	SOIL	06/08/92	07/07/92	Vanadium	55.0		1.3	mg/kg	7440-62-2	EPA200.7/SW6010

33094010	BSSB03-01	SOIL	06/08/92	07/07/92	Zinc	18.3		1.6	mg/kg	7440-66-6	EPA200.7/SW6010
33094011	BSSB03-02	SOIL	06/08/92	07/07/92	Silver	0.81	B	1.4	mg/kg	7440-22-4	EPA200.7/SW6010
33094011	BSSB03-02	SOIL	06/08/92	07/07/92	Aluminum	20000		7.6	mg/kg	7429-90-5	EPA200.7/SW6010
33094011	BSSB03-02	SOIL	06/08/92	06/29/92	Arsenic	9.6		0.7	mg/kg	7440-38-2	EPA206.2/SW7060
33094011	BSSB03-02	SOIL	06/08/92	07/07/92	Barium	110		0.3	mg/kg	7440-39-3	EPA200.7/SW6010
33094011	BSSB03-02	SOIL	06/08/92	07/07/92	Beryllium	0.32	B	0.8	mg/kg	7440-41-7	EPA200.7/SW6010
33094011	BSSB03-02	SOIL	06/08/92	07/07/92	Calcium	4180	E	39.5	mg/kg	7440-70-2	EPA200.7/SW6010
33094011	BSSB03-02	SOIL	06/08/92	07/07/92	Cadmium	1.8		1.0	mg/kg	7440-43-9	EPA200.7/SW6010
33094011	BSSB03-02	SOIL	06/08/92	07/07/92	Cobalt	11.7	B	7.8	mg/kg	7440-48-4	EPA200.7/SW6010
33094011	BSSB03-02	SOIL	06/08/92	07/07/92	Chromium	33.6		3.3	mg/kg	7440-47-3	EPA200.7/SW6010
33094011	BSSB03-02	SOIL	06/08/92	07/07/92	Copper	20.7		1.1	mg/kg	7440-50-8	EPA200.7/SW6010
33094011	BSSB03-02	SOIL	06/08/92	07/07/92	Iron	27300		8.3	mg/kg	7439-89-6	EPA200.7/SW6010
33094011	BSSB03-02	SOIL	06/08/92	06/26/92	Mercury	0.08		0.1	mg/kg	7439-97-6	SW7471
33094011	BSSB03-02	SOIL	06/08/92	07/07/92	Potassium	565	B	148.0	mg/kg	7440-09-7	EPA200.7/SW6010
33094011	BSSB03-02	SOIL	06/08/92	07/07/92	Magnesium	6660		11.4	mg/kg	7439-95-4	EPA200.7/SW6010
33094011	BSSB03-02	SOIL	06/08/92	07/07/92	Manganese	424		0.8	mg/kg	7439-96-5	EPA200.7/SW6010
33094011	BSSB03-02	SOIL	06/08/92	07/07/92	Sodium	241	BE	18.6	mg/kg	7440-23-5	EPA200.7/SW6010
33094011	BSSB03-02	SOIL	06/08/92	07/07/92	Nickel	29.5		7.8	mg/kg	7440-02-0	EPA200.7/SW6010
33094011	BSSB03-02	SOIL	06/08/92	06/29/92	Lead	5.9		0.6	mg/kg	7439-92-1	EPA239.2/SW7421
33094011	BSSB03-02	SOIL	06/08/92	07/07/92	Antimony	2.7	< N	11.0	mg/kg	7440-36-0	EPA200.7/SW6010
33094011	BSSB03-02	SOIL	06/08/92	06/26/92	Selenium	0.22	B	0.4	mg/kg	7782-49-2	EPA270.2/SW7740
33094011	BSSB03-02	SOIL	06/08/92	06/29/92	Thallium	0.20	<	0.8	mg/kg	7440-28-0	EPA279.2/SW7841
33094011	BSSB03-02	SOIL	06/08/92	07/07/92	Vanadium	58.2		1.3	mg/kg	7440-62-2	EPA200.7/SW6010
33094011	BSSB03-02	SOIL	06/08/92	07/07/92	Zinc	48.1		1.6	mg/kg	7440-66-6	EPA200.7/SW6010
33094012	BSSB03-03	SOIL	06/08/92	07/07/92	Silver	0.62	B	1.4	mg/kg	7440-22-4	EPA200.7/SW6010
33094012	BSSB03-03	SOIL	06/08/92	07/07/92	Aluminum	14500		7.6	mg/kg	7429-90-5	EPA200.7/SW6010
33094012	BSSB03-03	SOIL	06/08/92	06/29/92	Arsenic	5.9		0.7	mg/kg	7440-38-2	EPA206.2/SW7060
33094012	BSSB03-03	SOIL	06/08/92	07/07/92	Barium	72.4		0.3	mg/kg	7440-39-3	EPA200.7/SW6010
33094012	BSSB03-03	SOIL	06/08/92	07/07/92	Beryllium	0.22	B	0.8	mg/kg	7440-41-7	EPA200.7/SW6010
33094012	BSSB03-03	SOIL	06/08/92	07/07/92	Calcium	5130	E	39.5	mg/kg	7440-70-2	EPA200.7/SW6010
33094012	BSSB03-03	SOIL	06/08/92	07/07/92	Cadmium	1.7		1.0	mg/kg	7440-43-9	EPA200.7/SW6010
33094012	BSSB03-03	SOIL	06/08/92	07/07/92	Cobalt	11.0	B	7.8	mg/kg	7440-48-4	EPA200.7/SW6010
33094012	BSSB03-03	SOIL	06/08/92	07/07/92	Chromium	28.5		3.3	mg/kg	7440-47-3	EPA200.7/SW6010
33094012	BSSB03-03	SOIL	06/08/92	07/07/92	Copper	31.2		1.1	mg/kg	7440-50-8	EPA200.7/SW6010
33094012	BSSB03-03	SOIL	06/08/92	07/07/92	Iron	24100		8.3	mg/kg	7439-89-6	EPA200.7/SW6010
33094012	BSSB03-03	SOIL	06/08/92	06/26/92	Mercury	0.11		0.1	mg/kg	7439-97-6	SW7471
33094012	BSSB03-03	SOIL	06/08/92	07/07/92	Potassium	569	B	148.0	mg/kg	7440-09-7	EPA200.7/SW6010
33094012	BSSB03-03	SOIL	06/08/92	07/07/92	Magnesium	7510		11.4	mg/kg	7439-95-4	EPA200.7/SW6010
33094012	BSSB03-03	SOIL	06/08/92	07/07/92	Manganese	551		0.8	mg/kg	7439-96-5	EPA200.7/SW6010
33094012	BSSB03-03	SOIL	06/08/92	07/07/92	Sodium	289	BE	18.6	mg/kg	7440-23-5	EPA200.7/SW6010
33094012	BSSB03-03	SOIL	06/08/92	07/07/92	Nickel	33.8		7.8	mg/kg	7440-02-0	EPA200.7/SW6010
33094012	BSSB03-03	SOIL	06/08/92	06/29/92	Lead	4.3		0.6	mg/kg	7439-92-1	EPA239.2/SW7421
33094012	BSSB03-03	SOIL	06/08/92	07/07/92	Antimony	2.5	< N	11.0	mg/kg	7440-36-0	EPA200.7/SW6010
33094012	BSSB03-03	SOIL	06/08/92	06/26/92	Selenium	0.09	<	0.4	mg/kg	7782-49-2	EPA270.2/SW7740
33094012	BSSB03-03	SOIL	06/08/92	06/29/92	Thallium	0.18	<	0.8	mg/kg	7440-28-0	EPA279.2/SW7841

33094012	BSSB03-03	SOIL	06/08/92	07/07/92	Vanadium	46.3		1.3	mg/kg	7440-62-2	EPA200.7/SW6010
33094012	BSSB03-03	SOIL	06/08/92	07/07/92	Zinc	50.4		1.6	mg/kg	7440-66-6	EPA200.7/SW6010
33094013	BSSB03-04	SOIL	06/08/92	07/07/92	Silver	0.62	B	1.4	mg/kg	7440-22-4	EPA200.7/SW6010
33094013	BSSB03-04	SOIL	06/08/92	07/07/92	Aluminum	13100		7.6	mg/kg	7429-90-5	EPA200.7/SW6010
33094013	BSSB03-04	SOIL	06/08/92	06/29/92	Arsenic	6.7		0.7	mg/kg	7440-38-2	EPA206.2/SW7060
33094013	BSSB03-04	SOIL	06/08/92	07/07/92	Barium	63.0		0.3	mg/kg	7440-39-3	EPA200.7/SW6010
33094013	BSSB03-04	SOIL	06/08/92	07/07/92	Beryllium	0.18	<	0.8	mg/kg	7440-41-7	EPA200.7/SW6010
33094013	BSSB03-04	SOIL	06/08/92	07/07/92	Calcium	4350	E	39.5	mg/kg	7440-70-2	EPA200.7/SW6010
33094013	BSSB03-04	SOIL	06/08/92	07/07/92	Cadmium	1.7		1.0	mg/kg	7440-43-9	EPA200.7/SW6010
33094013	BSSB03-04	SOIL	06/08/92	07/07/92	Cobalt	11.0	B	7.8	mg/kg	7440-48-4	EPA200.7/SW6010
33094013	BSSB03-04	SOIL	06/08/92	07/07/92	Chromium	29.2		3.3	mg/kg	7440-47-3	EPA200.7/SW6010
33094013	BSSB03-04	SOIL	06/08/92	07/07/92	Copper	28.7		1.1	mg/kg	7440-50-8	EPA200.7/SW6010
33094013	BSSB03-04	SOIL	06/08/92	07/07/92	Iron	23300		8.3	mg/kg	7439-89-6	EPA200.7/SW6010
33094013	BSSB03-04	SOIL	06/08/92	06/26/92	Mercury	0.16		0.1	mg/kg	7439-97-6	SW7471
33094013	BSSB03-04	SOIL	06/08/92	07/07/92	Potassium	481	B	148.0	mg/kg	7440-09-7	EPA200.7/SW6010
33094013	BSSB03-04	SOIL	06/08/92	07/07/92	Magnesium	7090		11.4	mg/kg	7439-95-4	EPA200.7/SW6010
33094013	BSSB03-04	SOIL	06/08/92	07/07/92	Manganese	503		0.8	mg/kg	7439-96-5	EPA200.7/SW6010
33094013	BSSB03-04	SOIL	06/08/92	07/07/92	Sodium	262	BE	18.6	mg/kg	7440-23-5	EPA200.7/SW6010
33094013	BSSB03-04	SOIL	06/08/92	07/07/92	Nickel	32.1		7.8	mg/kg	7440-02-0	EPA200.7/SW6010
33094013	BSSB03-04	SOIL	06/08/92	06/29/92	Lead	5.6		0.6	mg/kg	7439-92-1	EPA239.2/SW7421
33094013	BSSB03-04	SOIL	06/08/92	07/07/92	Antimony	2.5	< N	11.0	mg/kg	7440-36-0	EPA200.7/SW6010
33094013	BSSB03-04	SOIL	06/08/92	06/26/92	Selenium	0.09	<	0.4	mg/kg	7782-49-2	EPA270.2/SW7740
33094013	BSSB03-04	SOIL	06/08/92	06/29/92	Thallium	0.18	<	0.8	mg/kg	7440-28-0	EPA279.2/SW7841
33094013	BSSB03-04	SOIL	06/08/92	07/07/92	Vanadium	40.5		1.3	mg/kg	7440-62-2	EPA200.7/SW6010
33094013	BSSB03-04	SOIL	06/08/92	07/07/92	Zinc	48.5		1.6	mg/kg	7440-66-6	EPA200.7/SW6010
33094014	BSSB03-05	SOIL	06/08/92	07/07/92	Silver	0.53	B	1.4	mg/kg	7440-22-4	EPA200.7/SW6010
33094014	BSSB03-05	SOIL	06/08/92	07/07/92	Aluminum	10700		7.6	mg/kg	7429-90-5	EPA200.7/SW6010
33094014	BSSB03-05	SOIL	06/08/92	06/29/92	Arsenic	6.8		0.7	mg/kg	7440-38-2	EPA206.2/SW7060
33094014	BSSB03-05	SOIL	06/08/92	07/07/92	Barium	55.8		0.3	mg/kg	7440-39-3	EPA200.7/SW6010
33094014	BSSB03-05	SOIL	06/08/92	07/07/92	Beryllium	0.18	<	0.8	mg/kg	7440-41-7	EPA200.7/SW6010
33094014	BSSB03-05	SOIL	06/08/92	07/07/92	Calcium	4800	E	39.5	mg/kg	7440-70-2	EPA200.7/SW6010
33094014	BSSB03-05	SOIL	06/08/92	07/07/92	Cadmium	1.4		1.0	mg/kg	7440-43-9	EPA200.7/SW6010
33094014	BSSB03-05	SOIL	06/08/92	07/07/92	Cobalt	9.5	B	7.8	mg/kg	7440-48-4	EPA200.7/SW6010
33094014	BSSB03-05	SOIL	06/08/92	07/07/92	Chromium	20.4		3.3	mg/kg	7440-47-3	EPA200.7/SW6010
33094014	BSSB03-05	SOIL	06/08/92	07/07/92	Copper	28.8		1.1	mg/kg	7440-50-8	EPA200.7/SW6010
33094014	BSSB03-05	SOIL	06/08/92	07/07/92	Iron	20700		8.3	mg/kg	7439-89-6	EPA200.7/SW6010
33094014	BSSB03-05	SOIL	06/08/92	06/26/92	Mercury	0.15		0.1	mg/kg	7439-97-6	SW7471
33094014	BSSB03-05	SOIL	06/08/92	07/07/92	Potassium	584	B	148.0	mg/kg	7440-09-7	EPA200.7/SW6010
33094014	BSSB03-05	SOIL	06/08/92	07/07/92	Magnesium	5780		11.4	mg/kg	7439-95-4	EPA200.7/SW6010
33094014	BSSB03-05	SOIL	06/08/92	07/07/92	Manganese	480		0.8	mg/kg	7439-96-5	EPA200.7/SW6010
33094014	BSSB03-05	SOIL	06/08/92	07/07/92	Sodium	288	BE	18.6	mg/kg	7440-23-5	EPA200.7/SW6010
33094014	BSSB03-05	SOIL	06/08/92	07/07/92	Nickel	25.5		7.8	mg/kg	7440-02-0	EPA200.7/SW6010
33094014	BSSB03-05	SOIL	06/08/92	06/29/92	Lead	4.6		0.6	mg/kg	7439-92-1	EPA239.2/SW7421
33094014	BSSB03-05	SOIL	06/08/92	07/07/92	Antimony	2.5	< N	11.0	mg/kg	7440-36-0	EPA200.7/SW6010
33094014	BSSB03-05	SOIL	06/08/92	06/26/92	Selenium	0.24	BW	0.4	mg/kg	7782-49-2	EPA270.2/SW7740

33094014	BSSB03-05	SOIL	06/08/92	06/29/92	Thallium	0.18	<	0.8	mg/kg	7440-28-0	EPA279.2/SW7841
33094014	BSSB03-05	SOIL	06/08/92	07/07/92	Vanadium	37.0		1.3	mg/kg	7440-62-2	EPA200.7/SW6010
33094014	BSSB03-05	SOIL	06/08/92	07/07/92	Zinc	50.7		1.6	mg/kg	7440-66-6	EPA200.7/SW6010
33094015	BSSB13-03	SOIL	06/03/92	07/07/92	Silver	0.94	B	1.4	mg/kg	7440-22-4	EPA200.7/SW6010
33094015	BSSB13-03	SOIL	06/03/92	07/07/92	Aluminum	16100		7.6	mg/kg	7429-90-5	EPA200.7/SW6010
33094015	BSSB13-03	SOIL	06/03/92	06/29/92	Arsenic	5.5		0.7	mg/kg	7440-38-2	EPA206.2/SW7060
33094015	BSSB13-03	SOIL	06/03/92	07/07/92	Barium	59.2		0.3	mg/kg	7440-39-3	EPA200.7/SW6010
33094015	BSSB13-03	SOIL	06/03/92	07/07/92	Beryllium	0.34	B	0.8	mg/kg	7440-41-7	EPA200.7/SW6010
33094015	BSSB13-03	SOIL	06/03/92	07/07/92	Calcium	6400	E	39.5	mg/kg	7440-70-2	EPA200.7/SW6010
33094015	BSSB13-03	SOIL	06/03/92	07/07/92	Cadmium	1.8		1.0	mg/kg	7440-43-9	EPA200.7/SW6010
33094015	BSSB13-03	SOIL	06/03/92	07/07/92	Cobalt	12.4		7.8	mg/kg	7440-48-4	EPA200.7/SW6010
33094015	BSSB13-03	SOIL	06/03/92	07/07/92	Chromium	31.8		3.3	mg/kg	7440-47-3	EPA200.7/SW6010
33094015	BSSB13-03	SOIL	06/03/92	07/07/92	Copper	20.8		1.1	mg/kg	7440-50-8	EPA200.7/SW6010
33094015	BSSB13-03	SOIL	06/03/92	07/07/92	Iron	25600		8.3	mg/kg	7439-89-6	EPA200.7/SW6010
33094015	BSSB13-03	SOIL	06/03/92	06/26/92	Mercury	0.05	B	0.1	mg/kg	7439-97-6	SW7471
33094015	BSSB13-03	SOIL	06/03/92	07/07/92	Potassium	716	B	148.0	mg/kg	7440-09-7	EPA200.7/SW6010
33094015	BSSB13-03	SOIL	06/03/92	07/07/92	Magnesium	8290		11.4	mg/kg	7439-95-4	EPA200.7/SW6010
33094015	BSSB13-03	SOIL	06/03/92	07/07/92	Manganese	611		0.8	mg/kg	7439-96-5	EPA200.7/SW6010
33094015	BSSB13-03	SOIL	06/03/92	07/07/92	Sodium	244	BE	18.6	mg/kg	7440-23-5	EPA200.7/SW6010
33094015	BSSB13-03	SOIL	06/03/92	07/07/92	Nickel	37.6		7.8	mg/kg	7440-02-0	EPA200.7/SW6010
33094015	BSSB13-03	SOIL	06/03/92	06/29/92	Lead	13.5		0.6	mg/kg	7439-92-1	EPA239.2/SW7421
33094015	BSSB13-03	SOIL	06/03/92	07/07/92	Antimony	2.4	< N	11.0	mg/kg	7440-36-0	EPA200.7/SW6010
33094015	BSSB13-03	SOIL	06/03/92	06/26/92	Selenium	0.09	<	0.4	mg/kg	7782-49-2	EPA270.2/SW7740
33094015	BSSB13-03	SOIL	06/03/92	06/29/92	Thallium	0.17	<	0.8	mg/kg	7440-28-0	EPA279.2/SW7841
33094015	BSSB13-03	SOIL	06/03/92	07/07/92	Vanadium	51.5		1.3	mg/kg	7440-62-2	EPA200.7/SW6010
33094015	BSSB13-03	SOIL	06/03/92	07/07/92	Zinc	51.6		1.6	mg/kg	7440-66-6	EPA200.7/SW6010
33094016	BSSB13-04	SOIL	06/03/92	07/07/92	Silver	0.61	B	1.4	mg/kg	7440-22-4	EPA200.7/SW6010
33094016	BSSB13-04	SOIL	06/03/92	07/07/92	Aluminum	14400		7.6	mg/kg	7429-90-5	EPA200.7/SW6010
33094016	BSSB13-04	SOIL	06/03/92	06/29/92	Arsenic	7.0	S	0.7	mg/kg	7440-38-2	EPA206.2/SW7060
33094016	BSSB13-04	SOIL	06/03/92	07/07/92	Barium	48.8		0.3	mg/kg	7440-39-3	EPA200.7/SW6010
33094016	BSSB13-04	SOIL	06/03/92	07/07/92	Beryllium	0.29	B	0.8	mg/kg	7440-41-7	EPA200.7/SW6010
33094016	BSSB13-04	SOIL	06/03/92	07/07/92	Calcium	4660	E	39.5	mg/kg	7440-70-2	EPA200.7/SW6010
33094016	BSSB13-04	SOIL	06/03/92	07/07/92	Cadmium	1.6		1.0	mg/kg	7440-43-9	EPA200.7/SW6010
33094016	BSSB13-04	SOIL	06/03/92	07/07/92	Cobalt	11.6		7.8	mg/kg	7440-48-4	EPA200.7/SW6010
33094016	BSSB13-04	SOIL	06/03/92	07/07/92	Chromium	30.0		3.3	mg/kg	7440-47-3	EPA200.7/SW6010
33094016	BSSB13-04	SOIL	06/03/92	07/07/92	Copper	21.1		1.1	mg/kg	7440-50-8	EPA200.7/SW6010
33094016	BSSB13-04	SOIL	06/03/92	07/07/92	Iron	24100		8.3	mg/kg	7439-89-6	EPA200.7/SW6010
33094016	BSSB13-04	SOIL	06/03/92	06/26/92	Mercury	0.06		0.1	mg/kg	7439-97-6	SW7471
33094016	BSSB13-04	SOIL	06/03/92	07/07/92	Potassium	524	B	148.0	mg/kg	7440-09-7	EPA200.7/SW6010
33094016	BSSB13-04	SOIL	06/03/92	07/07/92	Magnesium	8420		11.4	mg/kg	7439-95-4	EPA200.7/SW6010
33094016	BSSB13-04	SOIL	06/03/92	07/07/92	Manganese	556		0.8	mg/kg	7439-96-5	EPA200.7/SW6010
33094016	BSSB13-04	SOIL	06/03/92	07/07/92	Sodium	221	BE	18.6	mg/kg	7440-23-5	EPA200.7/SW6010
33094016	BSSB13-04	SOIL	06/03/92	07/07/92	Nickel	34.8		7.8	mg/kg	7440-02-0	EPA200.7/SW6010
33094016	BSSB13-04	SOIL	06/03/92	06/29/92	Lead	4.7		0.6	mg/kg	7439-92-1	EPA239.2/SW7421
33094016	BSSB13-04	SOIL	06/03/92	07/07/92	Antimony	2.4	< N	11.0	mg/kg	7440-36-0	EPA200.7/SW6010

33094016	BSSB13-04	SOIL	06/03/92	06/26/92	Selenium	0.09	< W	0.4	mg/kg	7782-49-2	EPA270.2/SW7740
33094016	BSSB13-04	SOIL	06/03/92	06/29/92	Thallium	0.17	<	0.8	mg/kg	7440-28-0	EPA279.2/SW7841
33094016	BSSB13-04	SOIL	06/03/92	07/07/92	Vanadium	45.1		1.3	mg/kg	7440-62-2	EPA200.7/SW6010
33094016	BSSB13-04	SOIL	06/03/92	07/07/92	Zinc	47.8		1.6	mg/kg	7440-66-6	EPA200.7/SW6010
33094017	BSSB13-05	SOIL	06/03/92	07/07/92	Silver	0.61	B	1.4	mg/kg	7440-22-4	EPA200.7/SW6010
33094017	BSSB13-05	SOIL	06/03/92	07/07/92	Aluminum	12300		7.6	mg/kg	7429-90-5	EPA200.7/SW6010
33094017	BSSB13-05	SOIL	06/03/92	06/29/92	Arsenic	5.5		0.7	mg/kg	7440-38-2	EPA206.2/SW7060
33094017	BSSB13-05	SOIL	06/03/92	07/07/92	Barium	53.6		0.3	mg/kg	7440-39-3	EPA200.7/SW6010
33094017	BSSB13-05	SOIL	06/03/92	07/07/92	Beryllium	0.18	<	0.8	mg/kg	7440-41-7	EPA200.7/SW6010
33094017	BSSB13-05	SOIL	06/03/92	07/07/92	Calcium	4100	E	39.5	mg/kg	7440-70-2	EPA200.7/SW6010
33094017	BSSB13-05	SOIL	06/03/92	07/07/92	Cadmium	1.5		1.0	mg/kg	7440-43-9	EPA200.7/SW6010
33094017	BSSB13-05	SOIL	06/03/92	07/07/92	Cobalt	11.8		7.8	mg/kg	7440-48-4	EPA200.7/SW6010
33094017	BSSB13-05	SOIL	06/03/92	07/07/92	Chromium	33.4		3.3	mg/kg	7440-47-3	EPA200.7/SW6010
33094017	BSSB13-05	SOIL	06/03/92	07/07/92	Copper	20.2		1.1	mg/kg	7440-50-8	EPA200.7/SW6010
33094017	BSSB13-05	SOIL	06/03/92	07/07/92	Iron	23500		8.3	mg/kg	7439-89-6	EPA200.7/SW6010
33094017	BSSB13-05	SOIL	06/03/92	06/26/92	Mercury	0.08		0.1	mg/kg	7439-97-6	SW7471
33094017	BSSB13-05	SOIL	06/03/92	07/07/92	Potassium	476	B	148.0	mg/kg	7440-09-7	EPA200.7/SW6010
33094017	BSSB13-05	SOIL	06/03/92	07/07/92	Magnesium	8240		11.4	mg/kg	7439-95-4	EPA200.7/SW6010
33094017	BSSB13-05	SOIL	06/03/92	07/07/92	Manganese	584		0.8	mg/kg	7439-96-5	EPA200.7/SW6010
33094017	BSSB13-05	SOIL	06/03/92	07/07/92	Sodium	226	BE	18.6	mg/kg	7440-23-5	EPA200.7/SW6010
33094017	BSSB13-05	SOIL	06/03/92	07/07/92	Nickel	40.6		7.8	mg/kg	7440-02-0	EPA200.7/SW6010
33094017	BSSB13-05	SOIL	06/03/92	06/29/92	Lead	4.2		0.6	mg/kg	7439-92-1	EPA239.2/SW7421
33094017	BSSB13-05	SOIL	06/03/92	07/07/92	Antimony	2.5	< N	11.0	mg/kg	7440-36-0	EPA200.7/SW6010
33094017	BSSB13-05	SOIL	06/03/92	06/26/92	Selenium	0.09	<	0.4	mg/kg	7782-49-2	EPA270.2/SW7740
33094017	BSSB13-05	SOIL	06/03/92	06/29/92	Thallium	0.18	<	0.8	mg/kg	7440-28-0	EPA279.2/SW7841
33094017	BSSB13-05	SOIL	06/03/92	07/07/92	Vanadium	39.6		1.3	mg/kg	7440-62-2	EPA200.7/SW6010
33094017	BSSB13-05	SOIL	06/03/92	07/07/92	Zinc	43.9		1.6	mg/kg	7440-66-6	EPA200.7/SW6010
33094018	BSSB13-06	SOIL	06/03/92	07/07/92	Silver	0.45	B	1.4	mg/kg	7440-22-4	EPA200.7/SW6010
33094018	BSSB13-06	SOIL	06/03/92	07/07/92	Aluminum	12800		7.6	mg/kg	7429-90-5	EPA200.7/SW6010
33094018	BSSB13-06	SOIL	06/03/92	06/29/92	Arsenic	5.4		0.7	mg/kg	7440-38-2	EPA206.2/SW7060
33094018	BSSB13-06	SOIL	06/03/92	07/07/92	Barium	50.6		0.3	mg/kg	7440-39-3	EPA200.7/SW6010
33094018	BSSB13-06	SOIL	06/03/92	07/07/92	Beryllium	0.18	<	0.8	mg/kg	7440-41-7	EPA200.7/SW6010
33094018	BSSB13-06	SOIL	06/03/92	07/07/92	Calcium	5090	E	39.5	mg/kg	7440-70-2	EPA200.7/SW6010
33094018	BSSB13-06	SOIL	06/03/92	07/07/92	Cadmium	1.9		1.0	mg/kg	7440-43-9	EPA200.7/SW6010
33094018	BSSB13-06	SOIL	06/03/92	07/07/92	Cobalt	13.6		7.8	mg/kg	7440-48-4	EPA200.7/SW6010
33094018	BSSB13-06	SOIL	06/03/92	07/07/92	Chromium	36.9		3.3	mg/kg	7440-47-3	EPA200.7/SW6010
33094018	BSSB13-06	SOIL	06/03/92	07/07/92	Copper	20.0		1.1	mg/kg	7440-50-8	EPA200.7/SW6010
33094018	BSSB13-06	SOIL	06/03/92	07/07/92	Iron	24700		8.3	mg/kg	7439-89-6	EPA200.7/SW6010
33094018	BSSB13-06	SOIL	06/03/92	06/26/92	Mercury	0.06	B	0.1	mg/kg	7439-97-6	SW7471
33094018	BSSB13-06	SOIL	06/03/92	07/07/92	Potassium	509	B	148.0	mg/kg	7440-09-7	EPA200.7/SW6010
33094018	BSSB13-06	SOIL	06/03/92	07/07/92	Magnesium	9760		11.4	mg/kg	7439-95-4	EPA200.7/SW6010
33094018	BSSB13-06	SOIL	06/03/92	07/07/92	Manganese	609		0.8	mg/kg	7439-96-5	EPA200.7/SW6010
33094018	BSSB13-06	SOIL	06/03/92	07/07/92	Sodium	226	BE	18.6	mg/kg	7440-23-5	EPA200.7/SW6010
33094018	BSSB13-06	SOIL	06/03/92	07/07/92	Nickel	47.0		7.8	mg/kg	7440-02-0	EPA200.7/SW6010
33094018	BSSB13-06	SOIL	06/03/92	06/29/92	Lead	4.1		0.6	mg/kg	7439-92-1	EPA239.2/SW7421

33094018	BSSB13-06	SOIL	06/03/92	07/07/92	Antimony	2.4	< N	11.0	mg/kg	7440-36-0	EPA200.7/SW6010
33094018	BSSB13-06	SOIL	06/03/92	06/26/92	Selenium	0.09	<	0.4	mg/kg	7782-49-2	EPA270.2/SW7740
33094018	BSSB13-06	SOIL	06/03/92	06/29/92	Thallium	0.18	<	0.8	mg/kg	7440-28-0	EPA279.2/SW7841
33094018	BSSB13-06	SOIL	06/03/92	07/07/92	Vanadium	43.7		1.3	mg/kg	7440-62-2	EPA200.7/SW6010
33094018	BSSB13-06	SOIL	06/03/92	07/07/92	Zinc	46.9		1.6	mg/kg	7440-66-6	EPA200.7/SW6010
33094019	BSSB14-01	SOIL	06/05/92	07/07/92	Silver	0.59	B	1.4	mg/kg	7440-22-4	EPA200.7/SW6010
33094019	BSSB14-01	SOIL	06/05/92	07/07/92	Aluminum	14500		7.6	mg/kg	7429-90-5	EPA200.7/SW6010
33094019	BSSB14-01	SOIL	06/05/92	06/29/92	Arsenic	6.1		0.7	mg/kg	7440-38-2	EPA206.2/SW7060
33094019	BSSB14-01	SOIL	06/05/92	07/07/92	Barium	141		0.3	mg/kg	7440-39-3	EPA200.7/SW6010
33094019	BSSB14-01	SOIL	06/05/92	07/07/92	Beryllium	0.25	<	0.8	mg/kg	7440-41-7	EPA200.7/SW6010
33094019	BSSB14-01	SOIL	06/05/92	07/07/92	Calcium	1760	E	39.5	mg/kg	7440-70-2	EPA200.7/SW6010
33094019	BSSB14-01	SOIL	06/05/92	07/07/92	Cadmium	0.82	B	1.0	mg/kg	7440-43-9	EPA200.7/SW6010
33094019	BSSB14-01	SOIL	06/05/92	07/07/92	Cobalt	6.9	B	7.8	mg/kg	7440-48-4	EPA200.7/SW6010
33094019	BSSB14-01	SOIL	06/05/92	07/07/92	Chromium	13.9		3.3	mg/kg	7440-47-3	EPA200.7/SW6010
33094019	BSSB14-01	SOIL	06/05/92	07/07/92	Copper	14.0		1.1	mg/kg	7440-50-8	EPA200.7/SW6010
33094019	BSSB14-01	SOIL	06/05/92	07/07/92	Iron	18900		8.3	mg/kg	7439-89-6	EPA200.7/SW6010
33094019	BSSB14-01	SOIL	06/05/92	06/26/92	Mercury	0.10		0.1	mg/kg	7439-97-6	SW7471
33094019	BSSB14-01	SOIL	06/05/92	07/07/92	Potassium	318	B	148.0	mg/kg	7440-09-7	EPA200.7/SW6010
33094019	BSSB14-01	SOIL	06/05/92	07/07/92	Magnesium	997	B	11.4	mg/kg	7439-95-4	EPA200.7/SW6010
33094019	BSSB14-01	SOIL	06/05/92	07/07/92	Manganese	218		0.8	mg/kg	7439-96-5	EPA200.7/SW6010
33094019	BSSB14-01	SOIL	06/05/92	07/07/92	Sodium	309	BE	18.6	mg/kg	7440-23-5	EPA200.7/SW6010
33094019	BSSB14-01	SOIL	06/05/92	07/07/92	Nickel	7.2	B	7.8	mg/kg	7440-02-0	EPA200.7/SW6010
33094019	BSSB14-01	SOIL	06/05/92	06/29/92	Lead	6.0		0.6	mg/kg	7439-92-1	EPA239.2/SW7421
33094019	BSSB14-01	SOIL	06/05/92	07/07/92	Antimony	3.5	< N	11.0	mg/kg	7440-36-0	EPA200.7/SW6010
33094019	BSSB14-01	SOIL	06/05/92	06/26/92	Selenium	0.28	B	0.4	mg/kg	7782-49-2	EPA270.2/SW7740
33094019	BSSB14-01	SOIL	06/05/92	06/29/92	Thallium	0.25	<	0.8	mg/kg	7440-28-0	EPA279.2/SW7841
33094019	BSSB14-01	SOIL	06/05/92	07/07/92	Vanadium	42.2		1.3	mg/kg	7440-62-2	EPA200.7/SW6010
33094019	BSSB14-01	SOIL	06/05/92	07/07/92	Zinc	27.5		1.6	mg/kg	7440-66-6	EPA200.7/SW6010
33094020	BSSB14-02	SOIL	06/05/92	07/07/92	Silver	0.80	B	1.4	mg/kg	7440-22-4	EPA200.7/SW6010
33094020	BSSB14-02	SOIL	06/05/92	07/07/92	Aluminum	23800		7.6	mg/kg	7429-90-5	EPA200.7/SW6010
33094020	BSSB14-02	SOIL	06/05/92	06/29/92	Arsenic	8.4		0.7	mg/kg	7440-38-2	EPA206.2/SW7060
33094020	BSSB14-02	SOIL	06/05/92	07/07/92	Barium	171		0.3	mg/kg	7440-39-3	EPA200.7/SW6010
33094020	BSSB14-02	SOIL	06/05/92	07/07/92	Beryllium	0.48	B	0.8	mg/kg	7440-41-7	EPA200.7/SW6010
33094020	BSSB14-02	SOIL	06/05/92	07/07/92	Calcium	3750	E	39.5	mg/kg	7440-70-2	EPA200.7/SW6010
33094020	BSSB14-02	SOIL	06/05/92	07/07/92	Cadmium	1.8		1.0	mg/kg	7440-43-9	EPA200.7/SW6010
33094020	BSSB14-02	SOIL	06/05/92	07/07/92	Cobalt	12.7	B	7.8	mg/kg	7440-48-4	EPA200.7/SW6010
33094020	BSSB14-02	SOIL	06/05/92	07/07/92	Chromium	35.0		3.3	mg/kg	7440-47-3	EPA200.7/SW6010
33094020	BSSB14-02	SOIL	06/05/92	07/07/92	Copper	23.8		1.1	mg/kg	7440-50-8	EPA200.7/SW6010
33094020	BSSB14-02	SOIL	06/05/92	07/07/92	Iron	31300		8.3	mg/kg	7439-89-6	EPA200.7/SW6010
33094020	BSSB14-02	SOIL	06/05/92	06/26/92	Mercury	0.07	B	0.1	mg/kg	7439-97-6	SW7471
33094020	BSSB14-02	SOIL	06/05/92	07/07/92	Potassium	494	B	148.0	mg/kg	7440-09-7	EPA200.7/SW6010
33094020	BSSB14-02	SOIL	06/05/92	07/07/92	Magnesium	5940		11.4	mg/kg	7439-95-4	EPA200.7/SW6010
33094020	BSSB14-02	SOIL	06/05/92	07/07/92	Manganese	567		0.8	mg/kg	7439-96-5	EPA200.7/SW6010
33094020	BSSB14-02	SOIL	06/05/92	07/07/92	Sodium	285	BE	18.6	mg/kg	7440-23-5	EPA200.7/SW6010
33094020	BSSB14-02	SOIL	06/05/92	07/07/92	Nickel	25.9		7.8	mg/kg	7440-02-0	EPA200.7/SW6010

33094020	BSSB14-02	SOIL	06/05/92	06/29/92	Lead	6.5		0.6	mg/kg	7439-92-1	EPA239.2/SW7421
33094020	BSSB14-02	SOIL	06/05/92	07/07/92	Antimony	2.9	< N	11.0	mg/kg	7440-36-0	EPA200.7/SW6010
33094020	BSSB14-02	SOIL	06/05/92	06/26/92	Selenium	0.26	BW	0.4	mg/kg	7782-49-2	EPA270.2/SW7740
33094020	BSSB14-02	SOIL	06/05/92	06/29/92	Thallium	0.21	<	0.8	mg/kg	7440-28-0	EPA279.2/SW7841
33094020	BSSB14-02	SOIL	06/05/92	07/07/92	Vanadium	76.6		1.3	mg/kg	7440-62-2	EPA200.7/SW6010
33094020	BSSB14-02	SOIL	06/05/92	07/07/92	Zinc	61.1		1.6	mg/kg	7440-66-6	EPA200.7/SW6010
33094M21	MATRIX SPIKE	SOIL	06/08/92	07/07/92	Silver	88.3		N/A	%rec	7440-22-4	EPA200.7/SW6010
33094M21	MATRIX SPIKE	SOIL	06/08/92	06/29/92	Arsenic	95.5		N/A	%rec	7440-38-2	EPA206.2/SW7060
33094M21	MATRIX SPIKE	SOIL	06/08/92	07/07/92	Barium	101.0		N/A	%rec	7440-39-3	EPA200.7/SW6010
33094M21	MATRIX SPIKE	SOIL	06/08/92	07/07/92	Beryllium	92.0		N/A	%rec	7440-41-7	EPA200.7/SW6010
33094M21	MATRIX SPIKE	SOIL	06/08/92	07/07/92	Cadmium	107.6		N/A	%rec	7440-43-9	EPA200.7/SW6010
33094M21	MATRIX SPIKE	SOIL	06/08/92	07/07/92	Cobalt	95.0		N/A	%rec	7440-48-4	EPA200.7/SW6010
33094M21	MATRIX SPIKE	SOIL	06/08/92	07/07/92	Chromium	104.7		N/A	%rec	7440-47-3	EPA200.7/SW6010
33094M21	MATRIX SPIKE	SOIL	06/08/92	07/07/92	Copper	96.2		N/A	%rec	7440-50-8	EPA200.7/SW6010
33094M21	MATRIX SPIKE	SOIL	06/08/92	06/26/92	Mercury	100.3		N/A	%rec	7439-97-6	SW7471
33094M21	MATRIX SPIKE	SOIL	06/08/92	07/07/92	Manganese	110.2		N/A	%rec	7439-96-5	EPA200.7/SW6010
33094M21	MATRIX SPIKE	SOIL	06/08/92	07/07/92	Nickel	93.9		N/A	%rec	7440-02-0	EPA200.7/SW6010
33094M21	MATRIX SPIKE	SOIL	06/08/92	06/29/92	Lead	100.0		N/A	%rec	7439-92-1	EPA239.2/SW7421
33094M21	MATRIX SPIKE	SOIL	06/08/92	07/07/92	Antimony	62.0	N	N/A	%rec	7440-36-0	EPA200.7/SW6010
33094M21	MATRIX SPIKE	SOIL	06/08/92	06/26/92	Selenium	86.0		N/A	%rec	7782-49-2	EPA270.2/SW7740
33094M21	MATRIX SPIKE	SOIL	06/08/92	06/29/92	Thallium	86.4		N/A	%rec	7440-28-0	EPA279.2/SW7841
33094M21	MATRIX SPIKE	SOIL	06/08/92	07/07/92	Vanadium	100.4		N/A	%rec	7440-62-2	EPA200.7/SW6010
33094M21	MATRIX SPIKE	SOIL	06/08/92	07/07/92	Zinc	91.7		N/A	%rec	7440-66-6	EPA200.7/SW6010
33094P22	DUPLICATE	SOIL	06/08/92	07/07/92	Silver	200.0		N/A	RPD	7440-22-4	EPA200.7/SW6010
33094P22	DUPLICATE	SOIL	06/08/92	07/07/92	Aluminum	12.4		N/A	RPD	7429-90-5	EPA200.7/SW6010
33094P22	DUPLICATE	SOIL	06/08/92	06/29/92	Arsenic	4.6		N/A	RPD	7440-38-2	EPA206.2/SW7060
33094P22	DUPLICATE	SOIL	06/08/92	07/07/92	Barium	6.9		N/A	RPD	7440-39-3	EPA200.7/SW6010
33094P22	DUPLICATE	SOIL	06/08/92	07/07/92	Beryllium	5.9		N/A	RPD	7440-41-7	EPA200.7/SW6010
33094P22	DUPLICATE	SOIL	06/08/92	07/07/92	Calcium	13.0		N/A	RPD	7440-70-2	EPA200.7/SW6010
33094P22	DUPLICATE	SOIL	06/08/92	07/07/92	Cadmium	13.7		N/A	RPD	7440-43-9	EPA200.7/SW6010
33094P22	DUPLICATE	SOIL	06/08/92	07/07/92	Cobalt	10.1		N/A	RPD	7440-48-4	EPA200.7/SW6010
33094P22	DUPLICATE	SOIL	06/08/92	07/07/92	Chromium	13.1		N/A	RPD	7440-47-3	EPA200.7/SW6010
33094P22	DUPLICATE	SOIL	06/08/92	07/07/92	Copper	4.1		N/A	RPD	7440-50-8	EPA200.7/SW6010
33094P22	DUPLICATE	SOIL	06/08/92	07/07/92	Iron	9.9		N/A	RPD	7439-89-6	EPA200.7/SW6010
33094P22	DUPLICATE	SOIL	06/08/92	06/26/92	Mercury	10.0		N/A	RPD	7439-97-6	SW7471
33094P22	DUPLICATE	SOIL	06/08/92	07/07/92	Potassium	15.3		N/A	RPD	7440-09-7	EPA200.7/SW6010
33094P22	DUPLICATE	SOIL	06/08/92	07/07/92	Magnesium	0.3		N/A	RPD	7439-95-4	EPA200.7/SW6010
33094P22	DUPLICATE	SOIL	06/08/92	07/07/92	Manganese	17.3		N/A	RPD	7439-96-5	EPA200.7/SW6010
33094P22	DUPLICATE	SOIL	06/08/92	07/07/92	Sodium	4.1		N/A	RPD	7440-23-5	EPA200.7/SW6010
33094P22	DUPLICATE	SOIL	06/08/92	07/07/92	Nickel	3.0		N/A	RPD	7440-02-0	EPA200.7/SW6010
33094P22	DUPLICATE	SOIL	06/08/92	06/29/92	Lead	0.4		N/A	RPD	7439-92-1	EPA239.2/SW7421
33094P22	DUPLICATE	SOIL	06/08/92	07/07/92	Antimony		NC	N/A	RPD	7440-36-0	EPA200.7/SW6010
33094P22	DUPLICATE	SOIL	06/08/92	06/26/92	Selenium	9.8		N/A	RPD	7782-49-2	EPA270.2/SW7740
33094P22	DUPLICATE	SOIL	06/08/92	06/29/92	Thallium		NC	N/A	RPD	7440-28-0	EPA279.2/SW7841
33094P22	DUPLICATE	SOIL	06/08/92	07/07/92	Vanadium	17.2		N/A	RPD	7440-62-2	EPA200.7/SW6010

33094P22	DUPLICATE	SOIL	06/08/92	07/07/92	Zinc	8.3		N/A	RPD	7440-66-6	EPA200.7/SW6010
33094ZS1	Method Blank	SOIL BLANK	06/10/92	07/07/92	Silver	0.280	<	1.4	mg/kg	7440-22-4	EPA200.7/SW6010
33094ZS1	Method Blank	SOIL BLANK	06/10/92	07/07/92	Aluminum	1.520	<	7.6	mg/kg	7429-90-5	EPA200.7/SW6010
33094ZS1	Method Blank	SOIL BLANK	06/10/92	06/29/92	Arsenic	0.140	<	0.7	mg/kg	7440-38-2	EPA206.2/SW7060
33094ZS1	Method Blank	SOIL BLANK	06/10/92	07/07/92	Barium	0.060	<	0.3	mg/kg	7440-39-3	EPA200.7/SW6010
33094ZS1	Method Blank	SOIL BLANK	06/10/92	07/07/92	Beryllium	0.160	<	0.8	mg/kg	7440-41-7	EPA200.7/SW6010
33094ZS1	Method Blank	SOIL BLANK	06/10/92	07/07/92	Calcium	16.446	B	39.5	mg/kg	7440-70-2	EPA200.7/SW6010
33094ZS1	Method Blank	SOIL BLANK	06/10/92	07/07/92	Cadmium	0.200	<	1.0	mg/kg	7440-43-9	EPA200.7/SW6010
33094ZS1	Method Blank	SOIL BLANK	06/10/92	07/07/92	Cobalt	1.560	<	7.8	mg/kg	7440-48-4	EPA200.7/SW6010
33094ZS1	Method Blank	SOIL BLANK	06/10/92	07/07/92	Chromium	0.660	<	3.3	mg/kg	7440-47-3	EPA200.7/SW6010
33094ZS1	Method Blank	SOIL BLANK	06/10/92	07/07/92	Copper	0.220	<	1.1	mg/kg	7440-50-8	EPA200.7/SW6010
33094ZS1	Method Blank	SOIL BLANK	06/10/92	07/07/92	Iron	1.660	<	8.3	mg/kg	7439-89-6	EPA200.7/SW6010
33094ZS1	Method Blank	SOIL BLANK	06/10/92	06/26/92	Mercury	0.028	<	0.1	mg/kg	7439-97-6	SW7471
33094ZS1	Method Blank	SOIL BLANK	06/10/92	07/07/92	Potassium	29.600	<	148.0	mg/kg	7440-09-7	EPA200.7/SW6010
33094ZS1	Method Blank	SOIL BLANK	06/10/92	07/07/92	Magnesium	2.280	<	11.4	mg/kg	7439-95-4	EPA200.7/SW6010
33094ZS1	Method Blank	SOIL BLANK	06/10/92	07/07/92	Manganese	3.634		0.8	mg/kg	7439-96-5	EPA200.7/SW6010
33094ZS1	Method Blank	SOIL BLANK	06/10/92	07/07/92	Sodium	3.720	<	18.6	mg/kg	7440-23-5	EPA200.7/SW6010
33094ZS1	Method Blank	SOIL BLANK	06/10/92	07/07/92	Nickel	1.560	<	7.8	mg/kg	7440-02-0	EPA200.7/SW6010
33094ZS1	Method Blank	SOIL BLANK	06/10/92	06/29/92	Lead	0.120	<	0.6	mg/kg	7439-92-1	EPA239.2/SW7421
33094ZS1	Method Blank	SOIL BLANK	06/10/92	07/07/92	Antimony	2.200	<	11.0	mg/kg	7440-36-0	EPA200.7/SW6010
33094ZS1	Method Blank	SOIL BLANK	06/10/92	06/26/92	Selenium	0.080	<	0.4	mg/kg	7782-49-2	EPA270.2/SW7740
33094ZS1	Method Blank	SOIL BLANK	06/10/92	06/29/92	Thallium	0.160	<	0.8	mg/kg	7440-28-0	EPA279.2/SW7841
33094ZS1	Method Blank	SOIL BLANK	06/10/92	07/07/92	Vanadium	0.260	<	1.3	mg/kg	7440-62-2	EPA200.7/SW6010
33094ZS1	Method Blank	SOIL BLANK	06/10/92	07/07/92	Zinc	0.596	B	1.6	mg/kg	7440-66-6	EPA200.7/SW6010
33097001	BSSB14-03	SOIL	06/05/92	06/30/92	Silver	0.43	B	1.4	mg/kg	7440-22-4	EPA200.7/SW6010
33097001	BSSB14-03	SOIL	06/05/92	06/30/92	Aluminum	13500		7.6	mg/kg	7429-90-5	EPA200.7/SW6010
33097001	BSSB14-03	SOIL	06/05/92	07/02/92	Arsenic	4.6		0.7	mg/kg	7440-38-2	EPA206.2/SW7060
33097001	BSSB14-03	SOIL	06/05/92	06/30/92	Barium	44.3		0.3	mg/kg	7440-39-3	EPA200.7/SW6010
33097001	BSSB14-03	SOIL	06/05/92	06/30/92	Beryllium	0.19	B	0.8	mg/kg	7440-41-7	EPA200.7/SW6010
33097001	BSSB14-03	SOIL	06/05/92	06/30/92	Calcium	5000	E	39.5	mg/kg	7440-70-2	EPA200.7/SW6010
33097001	BSSB14-03	SOIL	06/05/92	06/30/92	Cadmium	2.7		1.0	mg/kg	7440-43-9	EPA200.7/SW6010
33097001	BSSB14-03	SOIL	06/05/92	06/30/92	Cobalt	16.6		7.8	mg/kg	7440-48-4	EPA200.7/SW6010
33097001	BSSB14-03	SOIL	06/05/92	06/30/92	Chromium	80.9		3.3	mg/kg	7440-47-3	EPA200.7/SW6010
33097001	BSSB14-03	SOIL	06/05/92	06/30/92	Copper	59.9		1.1	mg/kg	7440-50-8	EPA200.7/SW6010
33097001	BSSB14-03	SOIL	06/05/92	06/30/92	Iron	38000	*	8.3	mg/kg	7439-89-6	EPA200.7/SW6010
33097001	BSSB14-03	SOIL	06/05/92	06/18/92	Mercury	0.04	B	0.1	mg/kg	7439-97-6	SW7471
33097001	BSSB14-03	SOIL	06/05/92	06/30/92	Potassium	705	B	148.0	mg/kg	7440-09-7	EPA200.7/SW6010
33097001	BSSB14-03	SOIL	06/05/92	06/30/92	Magnesium	14800		11.4	mg/kg	7439-95-4	EPA200.7/SW6010
33097001	BSSB14-03	SOIL	06/05/92	06/30/92	Manganese	540	*	0.8	mg/kg	7439-96-5	EPA200.7/SW6010
33097001	BSSB14-03	SOIL	06/05/92	06/30/92	Sodium	289	B	18.6	mg/kg	7440-23-5	EPA200.7/SW6010
33097001	BSSB14-03	SOIL	06/05/92	06/30/92	Nickel	73.1		7.8	mg/kg	7440-02-0	EPA200.7/SW6010
33097001	BSSB14-03	SOIL	06/05/92	07/01/92	Lead	6.4		0.5	mg/kg	7439-92-1	EPA239.2/SW7421
33097001	BSSB14-03	SOIL	06/05/92	06/30/92	Antimony	2.3	< N	11.0	mg/kg	7440-36-0	EPA200.7/SW6010
33097001	BSSB14-03	SOIL	06/05/92	07/05/92	Selenium	0.08	<	0.4	mg/kg	7782-49-2	EPA270.2/SW7740

33097001	BSSB14-03	SOIL	06/05/92	07/01/92	Thallium	0.17	<	0.8	mg/kg	7440-28-0	EPA279.2/SW7841
33097001	BSSB14-03	SOIL	06/05/92	06/30/92	Vanadium	55.9		1.3	mg/kg	7440-62-2	EPA200.7/SW6010
33097001	BSSB14-03	SOIL	06/05/92	06/30/92	Zinc	58.7		1.6	mg/kg	7440-66-6	EPA200.7/SW6010
33097002	BSSB14-04	SOIL	06/05/92	06/30/92	Silver	0.29	<	1.4	mg/kg	7440-22-4	EPA200.7/SW6010
33097002	BSSB14-04	SOIL	06/05/92	06/30/92	Aluminum	9830		7.6	mg/kg	7429-90-5	EPA200.7/SW6010
33097002	BSSB14-04	SOIL	06/05/92	07/02/92	Arsenic	3.5		0.7	mg/kg	7440-38-2	EPA206.2/SW7060
33097002	BSSB14-04	SOIL	06/05/92	06/30/92	Barium	44.7		0.3	mg/kg	7440-39-3	EPA200.7/SW6010
33097002	BSSB14-04	SOIL	06/05/92	06/30/92	Beryllium	0.30	B	0.8	mg/kg	7440-41-7	EPA200.7/SW6010
33097002	BSSB14-04	SOIL	06/05/92	06/30/92	Calcium	10800	E	39.5	mg/kg	7440-70-2	EPA200.7/SW6010
33097002	BSSB14-04	SOIL	06/05/92	06/30/92	Cadmium	0.96	B	1.0	mg/kg	7440-43-9	EPA200.7/SW6010
33097002	BSSB14-04	SOIL	06/05/92	06/30/92	Cobalt	7.2	B	7.8	mg/kg	7440-48-4	EPA200.7/SW6010
33097002	BSSB14-04	SOIL	06/05/92	06/30/92	Chromium	18.8		3.3	mg/kg	7440-47-3	EPA200.7/SW6010
33097002	BSSB14-04	SOIL	06/05/92	06/30/92	Copper	20.2		1.1	mg/kg	7440-50-8	EPA200.7/SW6010
33097002	BSSB14-04	SOIL	06/05/92	06/30/92	Iron	18500	*	8.3	mg/kg	7439-89-6	EPA200.7/SW6010
33097002	BSSB14-04	SOIL	06/05/92	06/18/92	Mercury	0.04	B	0.1	mg/kg	7439-97-6	SW7471
33097002	BSSB14-04	SOIL	06/05/92	06/30/92	Potassium	475	B	148.0	mg/kg	7440-09-7	EPA200.7/SW6010
33097002	BSSB14-04	SOIL	06/05/92	06/30/92	Magnesium	6420		11.4	mg/kg	7439-95-4	EPA200.7/SW6010
33097002	BSSB14-04	SOIL	06/05/92	06/30/92	Manganese	505	*	0.8	mg/kg	7439-96-5	EPA200.7/SW6010
33097002	BSSB14-04	SOIL	06/05/92	06/30/92	Sodium	265	B	18.6	mg/kg	7440-23-5	EPA200.7/SW6010
33097002	BSSB14-04	SOIL	06/05/92	06/30/92	Nickel	20.8		7.8	mg/kg	7440-02-0	EPA200.7/SW6010
33097002	BSSB14-04	SOIL	06/05/92	07/01/92	Lead	3.0		0.5	mg/kg	7439-92-1	EPA239.2/SW7421
33097002	BSSB14-04	SOIL	06/05/92	06/30/92	Antimony	2.2	< N	11.0	mg/kg	7440-36-0	EPA200.7/SW6010
33097002	BSSB14-04	SOIL	06/05/92	07/05/92	Selenium	0.08	<	0.4	mg/kg	7782-49-2	EPA270.2/SW7740
33097002	BSSB14-04	SOIL	06/05/92	07/01/92	Thallium	0.16	<	0.8	mg/kg	7440-28-0	EPA279.2/SW7841
33097002	BSSB14-04	SOIL	06/05/92	06/30/92	Vanadium	33.2		1.3	mg/kg	7440-62-2	EPA200.7/SW6010
33097002	BSSB14-04	SOIL	06/05/92	06/30/92	Zinc	39.1		1.6	mg/kg	7440-66-6	EPA200.7/SW6010
33097ZS1	Method Blank	SOIL BLANK	06/10/92	06/30/92	Silver	0.280	<	1.4	mg/kg	7440-22-4	EPA200.7/SW6010
33097ZS1	Method Blank	SOIL BLANK	06/10/92	06/30/92	Aluminum	-3.429	B	7.6	mg/kg	7429-90-5	EPA200.7/SW6010
33097ZS1	Method Blank	SOIL BLANK	06/10/92	07/02/92	Arsenic	0.140	<	0.7	mg/kg	7440-38-2	EPA206.2/SW7060
33097ZS1	Method Blank	SOIL BLANK	06/10/92	06/30/92	Barium	0.098	B	0.3	mg/kg	7440-39-3	EPA200.7/SW6010
33097ZS1	Method Blank	SOIL BLANK	06/10/92	06/30/92	Beryllium	0.160	<	0.8	mg/kg	7440-41-7	EPA200.7/SW6010
33097ZS1	Method Blank	SOIL BLANK	06/10/92	06/30/92	Calcium	8.459	B	39.5	mg/kg	7440-70-2	EPA200.7/SW6010
33097ZS1	Method Blank	SOIL BLANK	06/10/92	06/30/92	Cadmium	0.200	<	1.0	mg/kg	7440-43-9	EPA200.7/SW6010
33097ZS1	Method Blank	SOIL BLANK	06/10/92	06/30/92	Cobalt	1.560	<	7.8	mg/kg	7440-48-4	EPA200.7/SW6010
33097ZS1	Method Blank	SOIL BLANK	06/10/92	06/30/92	Chromium	0.660	<	3.3	mg/kg	7440-47-3	EPA200.7/SW6010
33097ZS1	Method Blank	SOIL BLANK	06/10/92	06/30/92	Copper	0.220	<	1.1	mg/kg	7440-50-8	EPA200.7/SW6010
33097ZS1	Method Blank	SOIL BLANK	06/10/92	06/30/92	Iron	1.660	<	8.3	mg/kg	7439-89-6	EPA200.7/SW6010
33097ZS1	Method Blank	SOIL BLANK	06/10/92	06/18/92	Mercury	0.028	<	0.1	mg/kg	7439-97-6	SW7471
33097ZS1	Method Blank	SOIL BLANK	06/10/92	06/30/92	Potassium	29.600	<	148.0	mg/kg	7440-09-7	EPA200.7/SW6010
33097ZS1	Method Blank	SOIL BLANK	06/10/92	06/30/92	Magnesium	2.280	<	11.4	mg/kg	7439-95-4	EPA200.7/SW6010
33097ZS1	Method Blank	SOIL BLANK	06/10/92	06/30/92	Manganese	0.160	<	0.8	mg/kg	7439-96-5	EPA200.7/SW6010
33097ZS1	Method Blank	SOIL BLANK	06/10/92	06/30/92	Sodium	4.647	B	18.6	mg/kg	7440-23-5	EPA200.7/SW6010
33097ZS1	Method Blank	SOIL BLANK	06/10/92	06/30/92	Nickel	1.560	<	7.8	mg/kg	7440-02-0	EPA200.7/SW6010
33097ZS1	Method Blank	SOIL BLANK	06/10/92	07/01/92	Lead	0.120	<	0.5	mg/kg	7439-92-1	EPA239.2/SW7421
33097ZS1	Method Blank	SOIL BLANK	06/10/92	06/30/92	Antimony	2.200	<	11.0	mg/kg	7440-36-0	EPA200.7/SW6010

33097ZS1	Method Blank	SOIL BLANK	06/10/92	07/05/92	Selenium	0.080	<	0.4	mg/kg	7782-49-2	EPA270.2/SW7740
33097ZS1	Method Blank	SOIL BLANK	06/10/92	07/01/92	Thallium	0.160	<	0.8	mg/kg	7440-28-0	EPA279.2/SW7841
33097ZS1	Method Blank	SOIL BLANK	06/10/92	06/30/92	Vanadium	0.260	<	1.3	mg/kg	7440-62-2	EPA200.7/SW6010
33097ZS1	Method Blank	SOIL BLANK	06/10/92	06/30/92	Zinc	0.533	B	1.6	mg/kg	7440-66-6	EPA200.7/SW6010