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REPORTS

DATE:

JUNE 2002



10601 Lomas NE, Suite 106
Albuquerque, NM 87112
(505) 237-8440

July 3, 2002

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Environmental Bureau
Oil Conservation Division

Mr. Wayne Price
Oil Conservation Division
1220 S. St. Francis
Santa Fe, NM 87505

**Subject: Report of Findings
PCA Junction Facility Groundwater Investigation
Carlsbad, New Mexico
Maxim Project No. 1690021**

Dear Mr. Price:

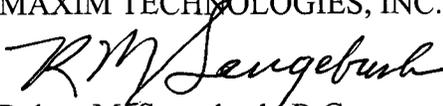
On behalf of Conoco Inc., Maxim Technologies, Inc. (Maxim) is pleased to submit the enclosed report of findings for the PCA Junction facility.

Maxim's investigation revealed that free product condensate is present in monitoring well MW-1 and that the five other monitoring wells on the site contain no detectable petroleum hydrocarbons. Based on currently available data, Maxim estimates that approximately 746 barrels of condensate may be present on the shallow groundwater table surface.

We look forward to your review and comment on this report. Should you have any questions, please do not hesitate to contact me at (505) 237-8440.

Sincerely,

MAXIM TECHNOLOGIES, INC.


Robert M. Sengebush, R.G.
Senior Project Manager

cc: Neal Goates, Conoco
Mike Stubblefield, OCD Artesia

Enclosure: Report of Findings, PCA Junction Facility Groundwater Investigation



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Oil Conservation Division

**REPORT OF FINDINGS
GROUNDWATER INVESTIGATION
CONOCO PCA JUNCTION
EDDY COUNTY, NEW MEXICO**

Prepared for:

**Conoco Remediation Technology
Maxim Project No. 1690021**



Prepared by:

**Maxim Technologies, Inc.
10601 Lomas Blvd. NE, Suite 106
Albuquerque, NM 87112**

June 25, 2002

MAXIM
TECHNOLOGIES INC®

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REPORT OF FINDINGS GROUNDWATER INVESTIGATION CONOCO PCA JUNCTION EDDY COUNTY, NEW MEXICO

1.0 INTRODUCTION

This report describes the methods and results of work performed by Maxim Technologies, Inc. (Maxim) to characterize groundwater at the Conoco Inc. (Conoco) PCA Junction facility, located approximately 15 miles northeast of Carlsbad, Eddy County, New Mexico (Figure 1). The site may be found on the Tower Hills North topographic map (U.S.G.S. 1985). Site installations consist of two 500-barrel condensate tanks surrounded by an earthen berm and incoming and outgoing gas pipelines. A chain link and barbwire fence encloses these installations. A 500-barrel steel storage tank is located on the southern portion of the site, outside of the fenced area. The site is being investigated to determine the extent of hydrocarbon impact to groundwater. This report summarizes the March 25 and April 9, 2002, activities and results.

1.1 Background

The PCA Junction facility was acquired by Conoco from LG&E Energy, Inc., of Hobbs, New Mexico, in November 2000. During the due diligence work conducted by Maxim in September 2000, three soil borings (B-1 through B-3) were advanced to depths ranging from 25 to 40 feet below ground surface (bgs). Groundwater was encountered between 22 and 23 feet bgs. Analysis of soil samples indicated that the 20-foot soil sample obtained from boring B-1 contained total petroleum hydrocarbons (TPH) (320 milligrams per kilogram [mg/kg] in exceedance of the New Mexico Oil Conservation Division (OCD) action levels. Analysis of groundwater "grab" samples collected from the borings indicated the concentrations of benzene, toluene, and xylenes in the sample from boring B-1 and the concentration of benzene in the sample obtained from boring B-2 exceeded OCD action levels.

The OCD was notified of this impact on December 2, 2000, by letter. Because this is a petroleum condensate storage facility, the subsequent groundwater investigation has been carried out under NMAC Rule 19, Exemption 19D(g) (Wayne Price OCD, verbal communication to Clyde Yancey).

During the week of May 7, 2001, Maxim installed three 2-inch-diameter PVC monitor wells around the condensate tanks. The well borings were continuously sampled during drilling and logged according to the Unified Soil Classification System. Soil samples were field screened with a photo-ionization detector (PID) to detect the presence of volatile organic vapors. Observations concerning soil types, lithologic changes, and the environmental condition of the encountered soils are presented in soil boring logs presented as Appendix A.

Groundwater samples were collected from the three monitor wells and analyzed for volatile organics compounds (VOCs) (EPA Method 8260B), polynuclear aromatic hydrocarbons (EPA Method 8270C), total dissolved solids (TDS), pH (EPA Method 136.3), major cations/anions and RCRA metals, all using EPA-approved methods and quality assurance/quality control (QA/QC) procedures. The sample taken from MW-1 exceeded the New Mexico Groundwater Standards for benzene, toluene, and xylenes.

1.2 Health and Safety

Maxim required safety and health procedures that were appropriate for the level of environmental hazard known to exist on this site. Randy Searcy, Conoco Safety Officer, was notified three days prior to the start of fieldwork. Conoco representative Pat Flores performed a Job Safety Analysis (JSA) at each boring location. All contractors complied with Conoco's "Contractors Safety Manual" (revised 05/96). Level D Personal Protective Equipment (PPE) (including an outer layer of Nomex clothing, required by Conoco) was adequate for this activity. Personnel were equipped with respirators with organic vapor cartridges in the event of a sudden release of noxious fumes from the site. For further details, please refer to the site-specific Health and Safety Plan (HASP) prepared and amended for the PCA Junction site dated March 20, 2002.

1.3 Investigation-Derived Waste

Drill cuttings and purged groundwater were staged on the ground since PID readings did not exceed 100 parts per million (ppm), per the approved protocol of the OCD (Wayne Price, December 2001).

1.4 Topography, Geology and Hydrogeology

PCA Junction is located within the Clayton Basin and west of the Nimenim Ridge. Local topography is characterized by the presence of playa lakes and gently sloping hills (U.S.G.S., 1985). The site is located within a closed topographic depression that contains silt and clay washed in from surrounding areas. The unconsolidated sediments are underlain by evaporite deposits, including commercial deposits of potash, of Permian age. "Water wells in and near the depressions generally yield highly mineralized water which can be used, if at all, only for stock" (Hendrickson, G.E. and Jones, R.S., 1952).

2.0 SCOPE OF WORK

Results of the initial subsurface investigation indicated that additional investigation of the soil and groundwater conditions at the facility was warranted. Maxim proposed to define the horizontal and vertical extent of the hydrocarbon impact using a combination of soil vapor field screening and installation and sampling of additional monitoring wells.

During the week of March 25, 2002, Maxim returned to the site to complete a soil vapor survey and install additional monitoring wells. Approximately 2.14 feet of free product was discovered in MW-1 on March 25, 2002. The presence of free product in this well was communicated verbally to the OCD representative and to the Conoco representative on the site. Twenty-two soil borings were advanced for the purpose of soil vapor monitoring. Three permanent monitoring wells (MW-4, MW-5, and MW-6) were installed per OCD guidelines. Groundwater was encountered at approximately 23 feet bgs.

On April 9, 2002, Maxim returned to the site to obtain groundwater samples from five monitoring wells. The samples were to be analyzed for VOCs (EPA Method 8260B); chloride, nitrate, and sulfate (EPA Method 300.0A); TDS (EPA Method 160.1); alkalinity (EPA Method 310.1); mercury (EPA Method 7470A); and New Mexico Water Quality Control Commission (NMWQCC) metals (EPA Method 6010B). MW-1, the well containing the free product, was not sampled.

2.1 Soil Vapor Borings

The investigation program entailed the installation of 22 shallow borings (approximately 20 feet deep) for the detection of VOCs within the headspace atmosphere in the boring. The boring locations in the immediate vicinity of the fenced facility are shown on Figure 2. Each boring was covered with an aluminum disk and allowed to stand undisturbed for approximately one hour. After the waiting period, the covers were penetrated with the tip of the photo-ionization detector (PID) and a measurement taken of the organic vapors present within the boring.

The concentrations of organic vapors in the borings were plotted on a field map. Borings to the south and southwest of the facility's area showed no detectable presence of hydrocarbon vapors. As the boring locations approached the site area but did not contain any detectable hydrocarbon vapors, Maxim decided to extend the borings several feet to groundwater in an effort to obtain hydrocarbon vapors that would define the extent of the hydrocarbon plume. Thus, borings SVB-16 through 22 were drilled to groundwater and are labeled "H2O" on Figure 2. The borings that were drilled to groundwater (at approximately 22 feet bgs) form an intermediate "clean" boundary between the known free product in MW-1 and the monitoring wells. Specifically, soil vapor borings 16 and 17 each contained a trace of hydrocarbon vapors (less than 100 ppm) and provide a southern boundary of the plume, while borings 18, 19 and 20 establish a clean northern boundary for the plume. The plume extent on the north was interpreted to be located approximately half way between MW-1 and borings 18, 19, and 20.

After the borings served the purpose of tracking the groundwater impact, each boring was plugged with bentonite chips and native soil so that no boring was left open for more than one day.

The soil encountered during boring activities consists of light yellowish-orange to light reddish-orange, silty sand with white caliche layers between 1 and 10 feet and 15 and 20 feet bgs. Below 20 feet the soil is reddish-orange clayey sand with reddish-orange clay and reddish-orange and greenish-gray, mottled siltstone occurring between 24 and 31 feet bgs. This

siltstone bed may be a continuous “marker bed”, as it was encountered in several of the borings near the facility. The boring logs are included as Appendix A. Cross section A-A’ is presented in Figure 3.

2.2 Monitoring Wells MW-4, MW-5 and MW-6

The interpretation of the lateral extent of hydrocarbon impact was confirmed with installation of monitoring wells MW-4, MW-5, and MW-6. The objective of installing the wells was to characterize the groundwater flow direction and identify the upgradient and downgradient boundaries of the plume, as well as the petroleum concentrations in groundwater within the body of the plume. The locations were selected based on the results of the soil vapor survey, subject to the limitations of the soil vapor data, and on the plan to position wells on all sides of the known impacted location (MW-1). The borings for the wells were logged for sediment type or lithology, and the drill cuttings were tested with a PID to determine the presence of hydrocarbons. Soil samples were not collected since PID measurements did not warrant analysis.

The monitoring wells were completed using 15 feet of screen with approximately 10 feet of screen in groundwater and 5 feet above the water table to accommodate seasonal changes in groundwater elevation. A sand pack was set in the annulus around the well screen from the bottom of the hole to approximately 2 feet above the top of the screen. A hydrated bentonite plug was placed above the sand pack, and the remainder of the hole was filled with hydrated bentonite chips. The surface completions consist of a concrete pad and locking metal protective casing. The wells stick up approximately 2.5 feet above the concrete pad. Well completion diagrams are included in Appendix A.

The wells were developed using a bailer. Development water was placed on the ground surface since PID measurements did not indicate a need to containerize the water. The location and elevation of the top of the PVC casing of each well (including wells MW-1, MW-2 and MW-3 installed previously) were surveyed by a licensed surveyor on April 9, 2002. A table of well design specifications, top-of-casing elevations and groundwater elevations are presented in Table 1.

2.3 Groundwater Sampling

Water level measurements were taken prior to sampling. The water level measurements were converted from top-of-casing measurements to elevation measurements using elevation data from the well survey. The groundwater elevations are presented in Table 1. Groundwater elevation contours using the April 9, 2002, data are plotted on Figure 2.

The wells were purged by removing approximately three well volumes of water with an electric purge pump. The pump was thoroughly decontaminated between wells. Groundwater parameters were checked using a Hanna portable pH/specific conductivity/TDS/temperature meter. The samples were collected when these parameters stabilized. The samples were collected into laboratory-prepared containers and sent to Severn Trent Laboratories (STL) for

analysis of benzene, toluene, ethylbenzene and total xylenes (BTEX), alkalinity, TDS, chloride, nitrate, sulfate, mercury in liquid waste, and NMWQCC metals. The QA/QC procedure consisted of collecting and analyzing one duplicate sample from MW-3.

3.0 GROUNDWATER ANALYTICAL RESULTS

The analytical results are presented in Table 2 and the complete analytical report is presented in Appendix B. MW-1 was not sampled because it contained approximately two feet of light, honey-colored hydrocarbon interpreted to be condensate. Groundwater samples from wells MW-2, MW-3, MW-4, MW-5 and MW-6 contained no detectable BTEX. The samples obtained from MW-2 through MW-6 contained levels of chloride, sulfate, nitrate, alkalinity, and TDS that are consistent with naturally occurring concentrations in groundwater, although the chloride concentration in MW-5 was significantly higher than in the other wells. All samples exhibited levels of NMWQCC metals below laboratory detection limits and/or below the NMWQCC standards. All samples collected contained no detectable mercury.

4.0 CONCLUSIONS

According to the analytical results, there is no evidence of hydrocarbons in the monitoring wells on the site except in MW-1, which contains free product. MW-2, MW-3, and MW-5 are upgradient from MW-1. MW-4 is sidegradient and MW-6 is downgradient from MW-1. The aquifer conditions encountered during drilling of wells MW-4, MW-5 and MW-6 suggest that the aquifer is only a few feet thick and is underlain by a semi-impermeable clayey silt layer. The groundwater flow direction is to the northwest with a gradient as interpreted from water levels in the six wells of 0.00175 foot per foot. The thinness of the water-bearing zone and the nearly flat gradient suggest that the aquifer may be a discontinuous perched water zone within a localized, closed basin. This is further supported by surface topographic evidence, which depicts numerous closed basins and small playa lakes in the vicinity of the site. In such a hydrogeologic environment, groundwater zones do not actually flow, as they do in more extensive water table aquifers, and thus the hydrocarbon plume would remain essentially stationary in the vicinity of the source, presumably the condensate tanks. This interpretation could account for the findings that the free product has not migrated downgradient as far as MW-6.

Figure 4 depicts the possible aerial extent of the hydrocarbon plume beneath the site. The extent shown is interpreted as extending halfway to the downgradient and sidegradient wells (including soil borings that encountered groundwater but did not contain hydrocarbon vapors). This estimate is conservative in that the halfway rule is arbitrary but honors the existing data. There may be more or less free product actually present.

The estimated condensate volume was calculated as follows:

- Aerial extent of plume: 16,777 ft²
- Thickness o lens-shaped plume: Effective thickness 1 ft
- Formation porosity: 25%
- Conversion ft³ to gallons: 7.48 gal/ft³

The estimated condensate volume is 31,373 gallons or approximately 746 barrels.

5.0 RECOMMENDATIONS

Maxim recommends installing a free product recovery system to remove the condensate. The system would most likely consist of a skimmer pump and tank (or series of tanks) that would recover the free product at a relatively low rate so as not to completely deplete the perched aquifer. In addition, the six wells should be sampled periodically to track possible plume migration.

Maxim has completed a preliminary evaluation of recovery systems that would be compatible with the depth, product thickness and power availability at PCA Junction. Upon Conoco's approval of the product recovery system concept, Maxim will proceed with engineering design, cost estimates, system purchase and field installation.

6.0 REFERENCES

Hendrickson, G.E., and Jones, R.S., 1952, *Geology and Ground-Water Resources of Eddy County, New Mexico*. New Mexico Bureau of Mines and Mineral Resources, Groundwater Report 3.

U.S. Geological Survey, Tower Hill North 7.5 Minute Topographic Map, 1985.

TABLES

TABLE 1

CONOCO PCA JUNCTION FACILITY
GROUNDWATER ELEVATIONS AND WELL SPECIFICATIONS

Well ID	Date	Total Depth (feet bgs)	Screen Interval (feet bgs)	0.010 in. slot Screen Length (feet)	Casing Diameter (inches)	Elevation to Concrete Pad (feet above msl)	Elevation to Top of Casing (feet above msl)	Depth to Water (feet TOC)	Depth to Product (feet bgs)	Product Thickness (feet)	Groundwater Elevation (TOC) (feet above msl)
MW-1	5/9/01	26.0	16-26	10	2	3212.36	3212.13 below ground completion	23.1	NA	NA	#VALUE!
	5/29/01							23.25	NA	NA	#VALUE!
	3/25/02							25.82	23.68	2.14	3187.84*
	4/9/02							25.85	23.71	2.14	3187.81*
MW-2	5/9/01	28.05	18.05-28.05	10	2	3211.29	3211 below ground completion	21.7	NA	NA	#VALUE!
	5/29/01							21.8	NA	NA	#VALUE!
	3/25/02							22.87	NA	NA	#VALUE!
	4/9/02							22.91	NA	NA	#VALUE!
MW-3	5/9/01	28.25	18.25-28.25	10	2	3210.8	3210.48 below ground completion	21.2	NA	NA	#VALUE!
	5/29/01							21.29	NA	NA	#VALUE!
	3/25/02							22.3	NA	NA	#VALUE!
	4/9/02							22.35	NA	NA	#VALUE!
MW-4	3/28/02	36.3	21.3-36.3	15	4	3211.78	3213.96	26.95	NA	NA	3187.01
	4/9/02	36.75	21.75-36.75	15	4	3212.42	3214.24	26.67	NA	NA	3187.57
MW-5	3/28/02	37.6	22.6-37.6	15	4	3214.36	3216.23	28.17	NA	NA	3188.06
	4/9/02	36.75	21.75-36.75	15	4	3212.42	3214.24	28.25	NA	NA	3187.98

bgs = below ground surface

TOC = Top of Well Casing

msl = mean sea level

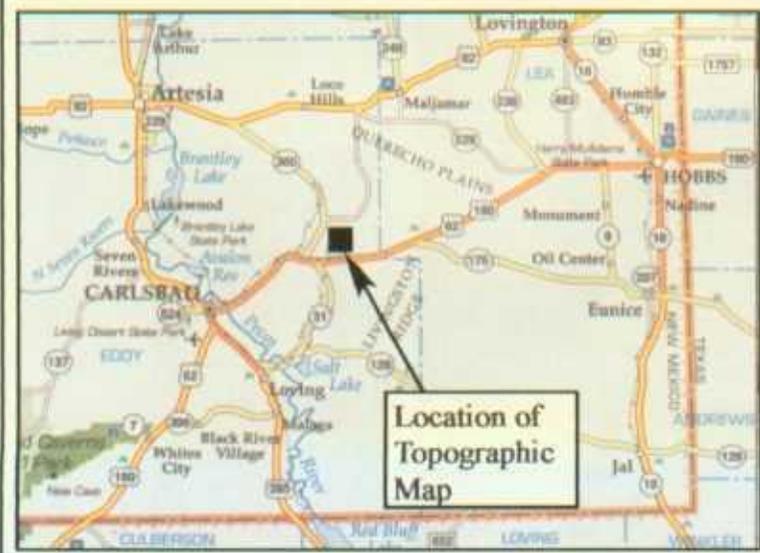
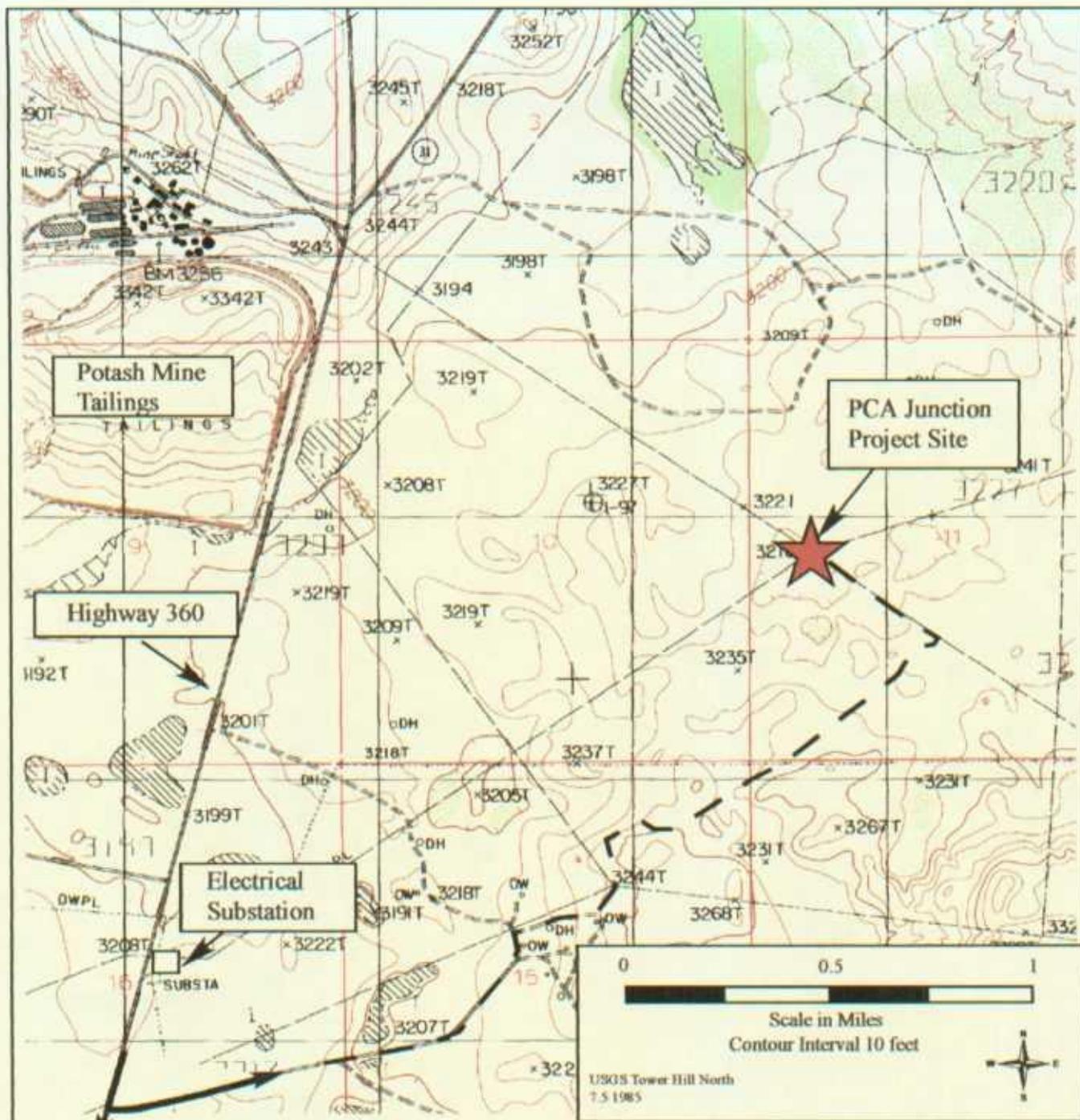
* = Product thickness multiplied by product density factor of 0.73 to obtain estimated water level

**TABLE 2
PCA JUNCTION SITE
GROUNDWATER ANALYTICAL RESULTS SUMMARY**

Sample Location	Date Sampled	SW846 8260B										Trace Inductively Coupled Plasma (ICP) Metals SW846 6010B										MCAWW 300.0A			MCAWW 310.1	MCAWW 160.1	TDS
		Benzene	Toluene	Ethylbenzene	Xylenes	Mercury	Silver	Arsenic	Barium	Calcium	Cadmium	Chromium	Magnesium	Sodium	Lead	Selenium	Chloride	Nitrate	Sulfate	Alkalinity							
MW-2	04/09/02	<0.0010	<0.0010	<0.0010	<0.0020	<0.00020	<0.0050	<0.010	<0.20	1200	<0.0020	<0.0050	111	104	0.014	0.040	475	36.9	1720	74.7	3940						
MW-3	04/09/02	<0.0010	<0.0010	<0.0010	<0.0020	<0.00020	<0.0050	<0.010	<0.20	846	<0.0020	<0.0050	11.5	12.3	0.0090	0.010	255	9.5	1320	91.5	3160						
Duplicate	04/09/02	<0.0010	<0.0010	<0.0010	<0.0020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
MW-4	04/09/02	<0.0010	<0.0010	<0.0010	<0.0020	<0.00020	<0.0050	<0.010	<0.20	716	<0.0020	<0.0050	40.7	10.5	0.0034	0.017	211	7.7	1360	107	2930						
MW-5	04/09/02	<0.0010	<0.0010	<0.0010	<0.0020	<0.00020	<0.0050	<0.010	<0.20	943	<0.0020	<0.0050	301	291	0.0096	0.029	1410	14.0	1710	68.1	5780						
MW-6	04/09/02	<0.0010	<0.0010	<0.0010	<0.0020	<0.00020	<0.0050	<0.010	<0.20	652	<0.0020	<0.0050	43.4	10.5	0.011	<0.0050	120	5.2	1370	81.6	2660						
NMWQCC Groundwater Standards		0.01	0.75	0.75	0.62	0.002	0.05	0.1	1.0	NE	0.01	0.05	NE	NE	0.05	0.05	NE	NE	NE	NE	NE						

MW = Monitoring Well
 EPA = Environmental Protection Agency
 SW846 = "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates
 MCAWW = "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions
 NMWQCC = New Mexico Water Quality Control Commission
 NA = Not Analyzed
 NE = Not established by NMWQCC
 TDS = Total Dissolved Solids
 Note: Monitoring Well MW-1 contained 2.14 feet of free product on 3/25/02.

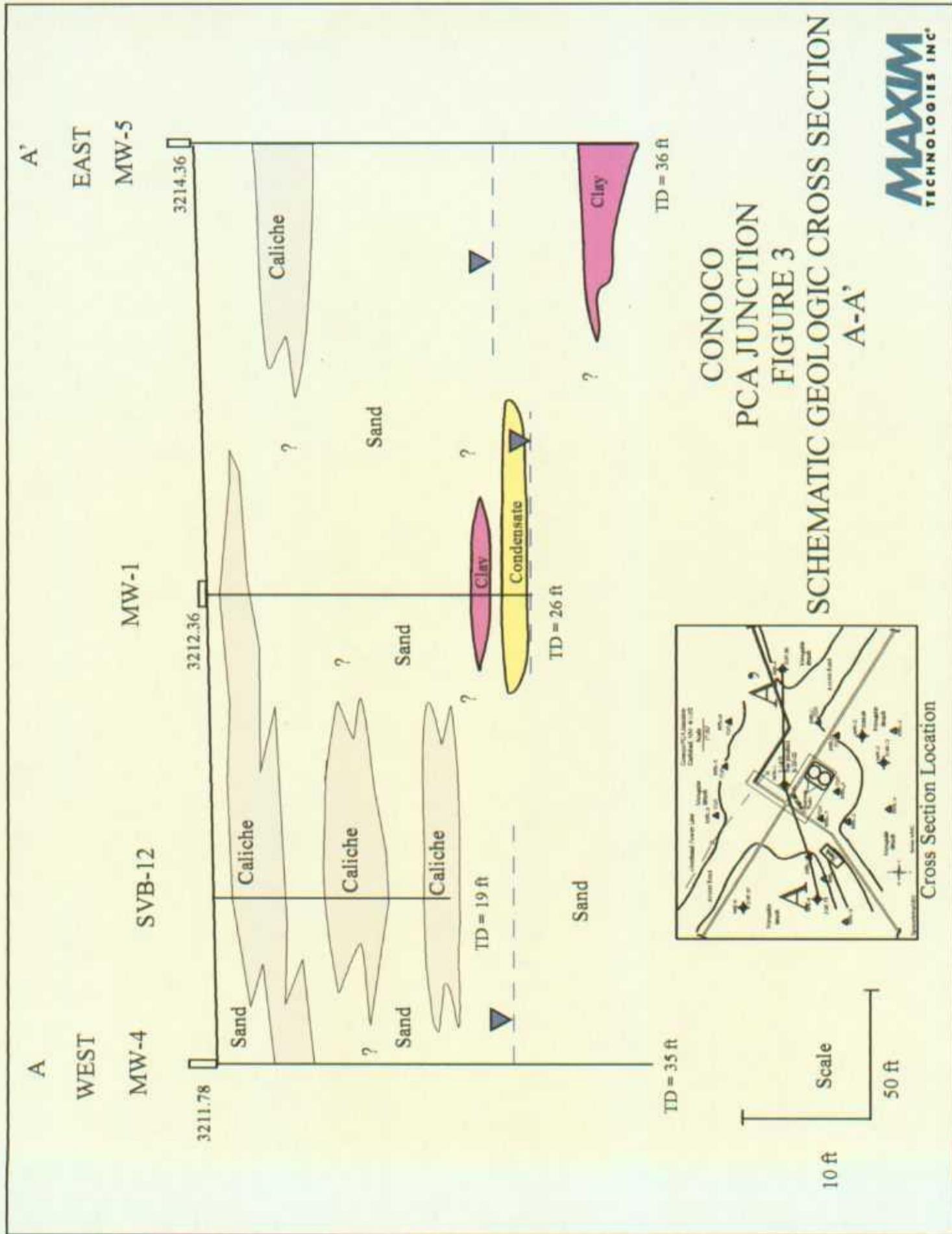
FIGURES



CONOCO
PCA JUNCTION
FIGURE 1
LOCATION MAP



6/7/02



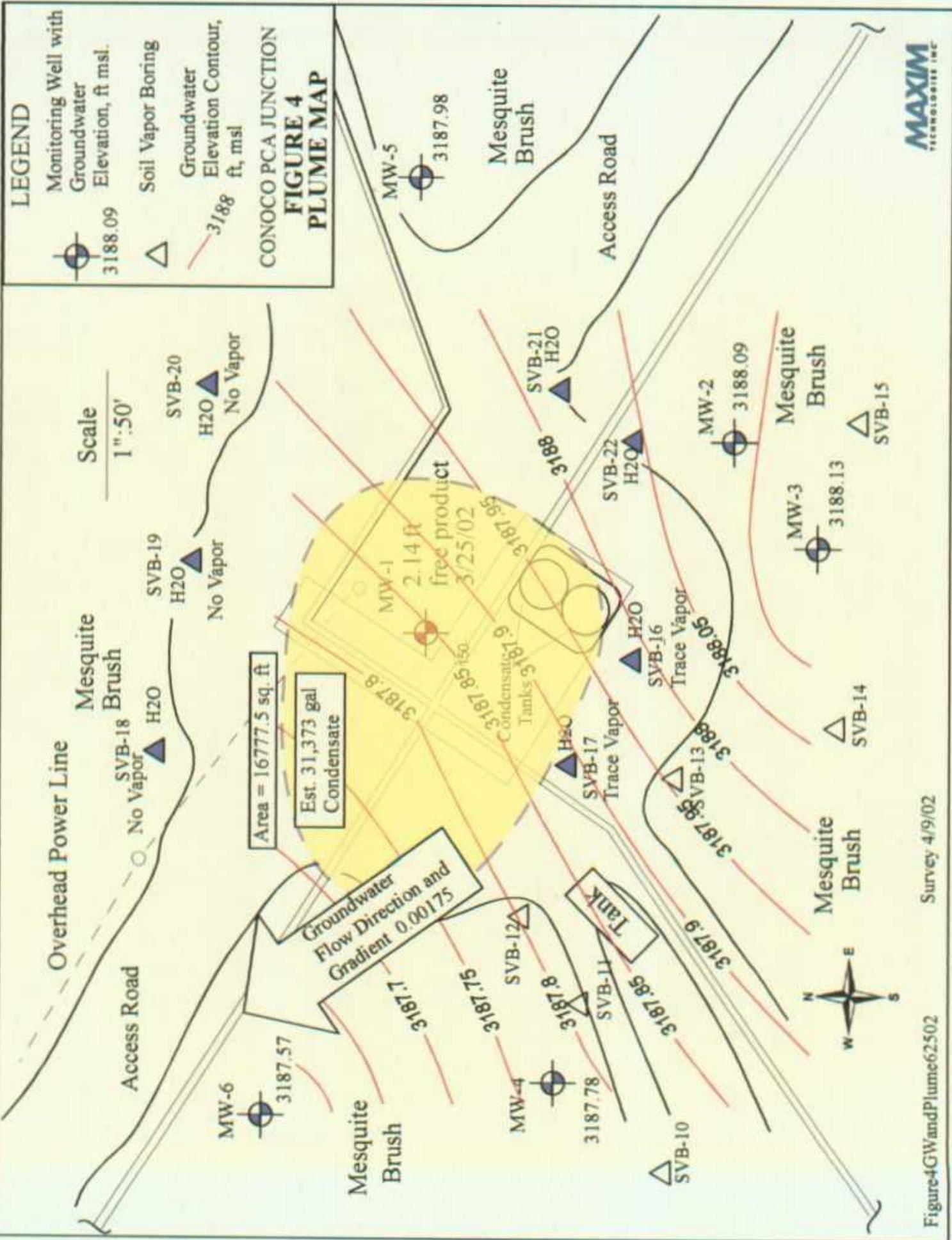


Figure 4 GW and Plume 62502

Survey 4/9/02

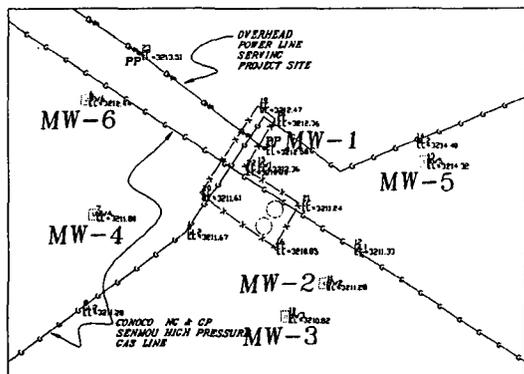
APPENDIX A

**Monitoring Well Completions
and Boring Logs**

PROJECT NAME: Maxim #1690021/110
 LOCATION: PCA Junction

MONITORING WELL NO. MW-1
 FIELD LOGGED BY: F. Lichnovsky
 ELEVATION: GROUND SURFACE (msl): 3212.36 msl (ft)
 GROUNDWATER ELEVATION (msl): 3187.56 msl (ft)
 DRILL TYPE: Air Rotary
 BORE HOLE DIAMETER: 5 (in)
 DRILLED BY: Scarborough Drilling
 DATE: HOLE STARTED: 5/8/01
 DATE: COMPLETED: 5/8/01
 REMARKS: bgs=below ground surface
 ND=Not Detected, NS=No Sample
 NA=Not Applicable, NR=Not Recorded
 msl = mean sea level

LOCATION MAP

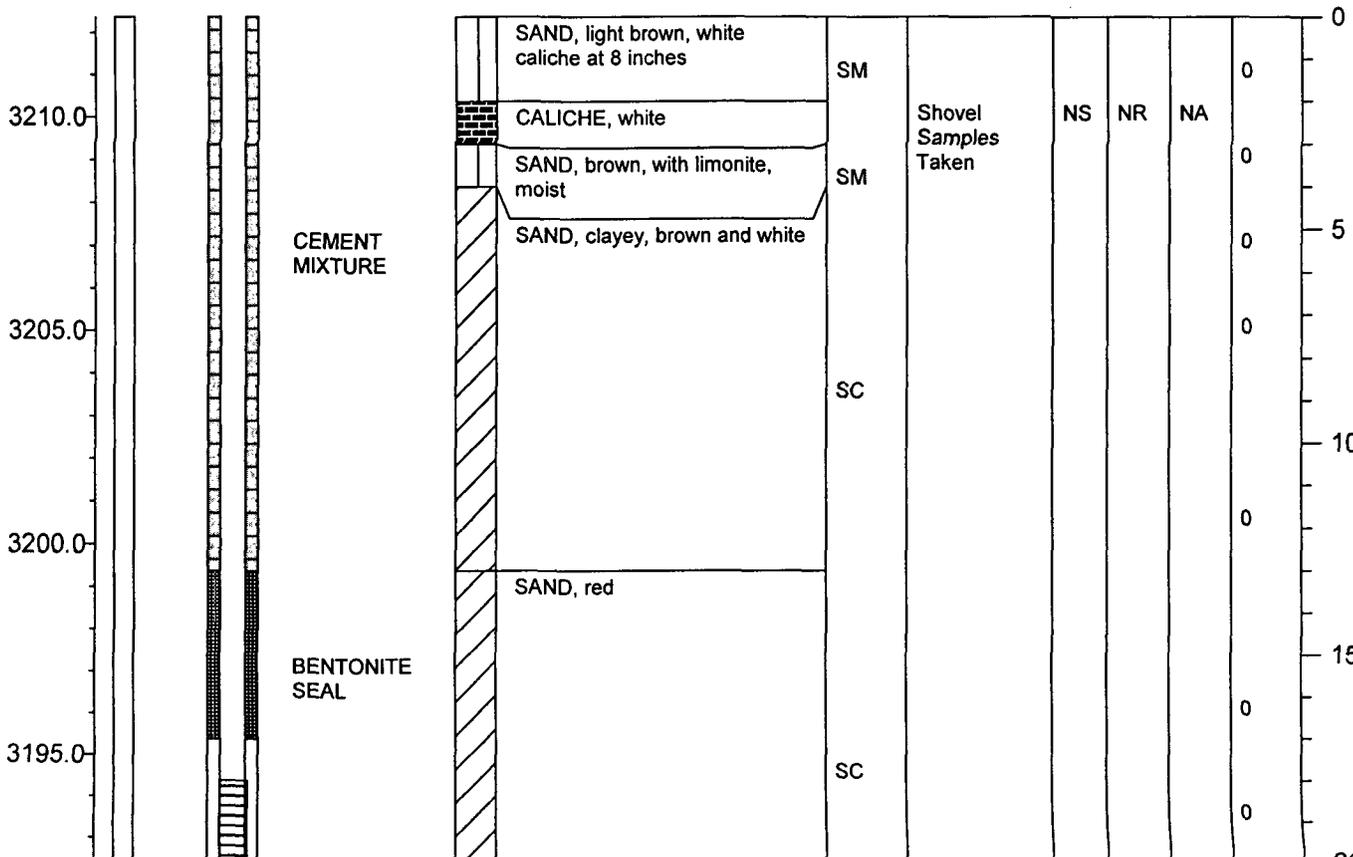


WELL COMPLETION INFORMATION

Measuring Point Description (msl): Top of Casing
 Measuring Point Elevation (msl): 3212.13' msl
 Static Water Level: 3187.33' msl
 Well Development: PVC Bailer
 Well Cap: 2" flush mounted locking cap with bolted man hole cover

Type of Casing: PVC
 Casing Diameter: 2 inches
 Slot Size: 0.010

ELEVATION (msl) - ft	SAMPLE INTERVAL/ID #	COMPLETION DIAGRAM	CLASSIFICATION AND DESCRIPTION	USCS SYMBOL	BLOW COUNT	ANALYTICAL	TIME	% RECOVERY	PID RESULT (ppm)	DEPTH (bgs) - ft
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Boring Terminated at 28' bgs

PROJECT NAME: Maxim #1690021/110

LOCATION: PCA Junction

MONITORING WELL NO. MW-1

FIELD LOGGED BY: F. Lichnovsky

ELEVATION: GROUND SURFACE (msl): 3212.36 msl (ft)

GROUNDWATER ELEVATION (msl): 3187.56 msl (ft)

DRILL TYPE: Air Rotary

BORE HOLE DIAMETER: 5 (in)

DRILLED BY: Scarborough Drilling

DATE: HOLE STARTED: 5/8/01

DATE: COMPLETED: 5/8/01

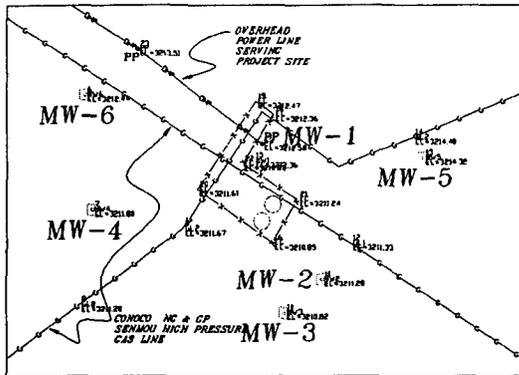
REMARKS: bgs=below ground surface

ND=Not Detected, NS=No Sample

NA=Not Applicable, NR=Not Recorded

msl = mean sea level

LOCATION MAP



WELL COMPLETION INFORMATION

Measuring Point Description (msl): Top of Casing

Type of Casing: PVC

Measuring Point Elevation (msl): 3212.13' msl

Casing Diameter: 2 inches

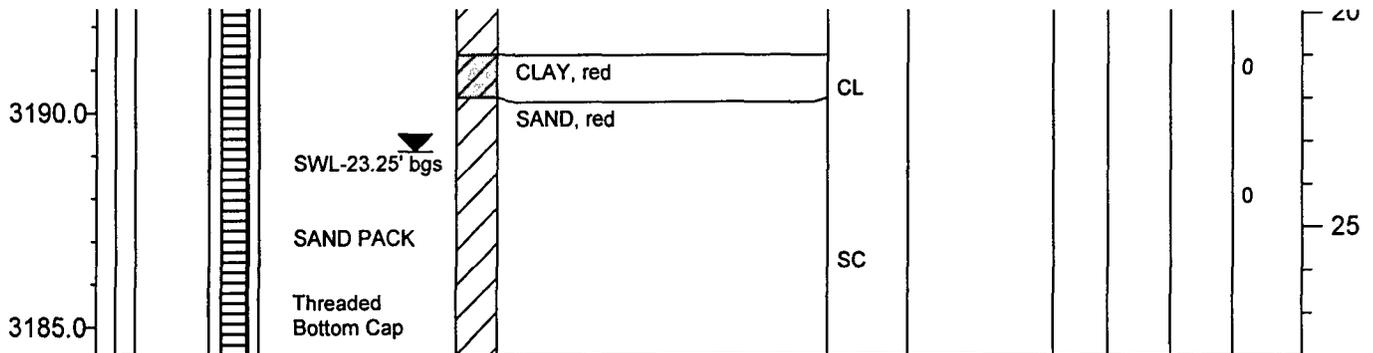
Static Water Level: 3187.33' msl

Slot Size: 0.010

Well Development: PVC Bailor

Well Cap: 2" flush mounted locking cap with bolted man hole cover

ELEVATION (msl) - ft	SAMPLE INTERVAL/ID #	COMPLETION DIAGRAM	CLASSIFICATION AND DESCRIPTION	USCS SYMBOL	BLOW COUNT	ANALYTICAL	TIME	% RECOVERY	PID RESULT (ppm)	DEPTH (bgs) - ft
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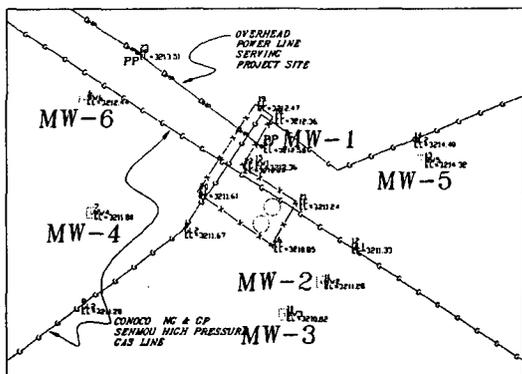


Boring Terminated at 28' bgs

PROJECT NAME: Maxim #1690021/110
 LOCATION: PCA Junction

MONITORING WELL NO. MW-2
 FIELD LOGGED BY: F. Lichnovsky
 ELEVATION: GROUND SURFACE (msl): 3211.29 msl (ft)
 GROUNDWATER ELEVATION (msl): 3189.46 msl (ft)
 DRILL TYPE: Air Rotary

LOCATION MAP

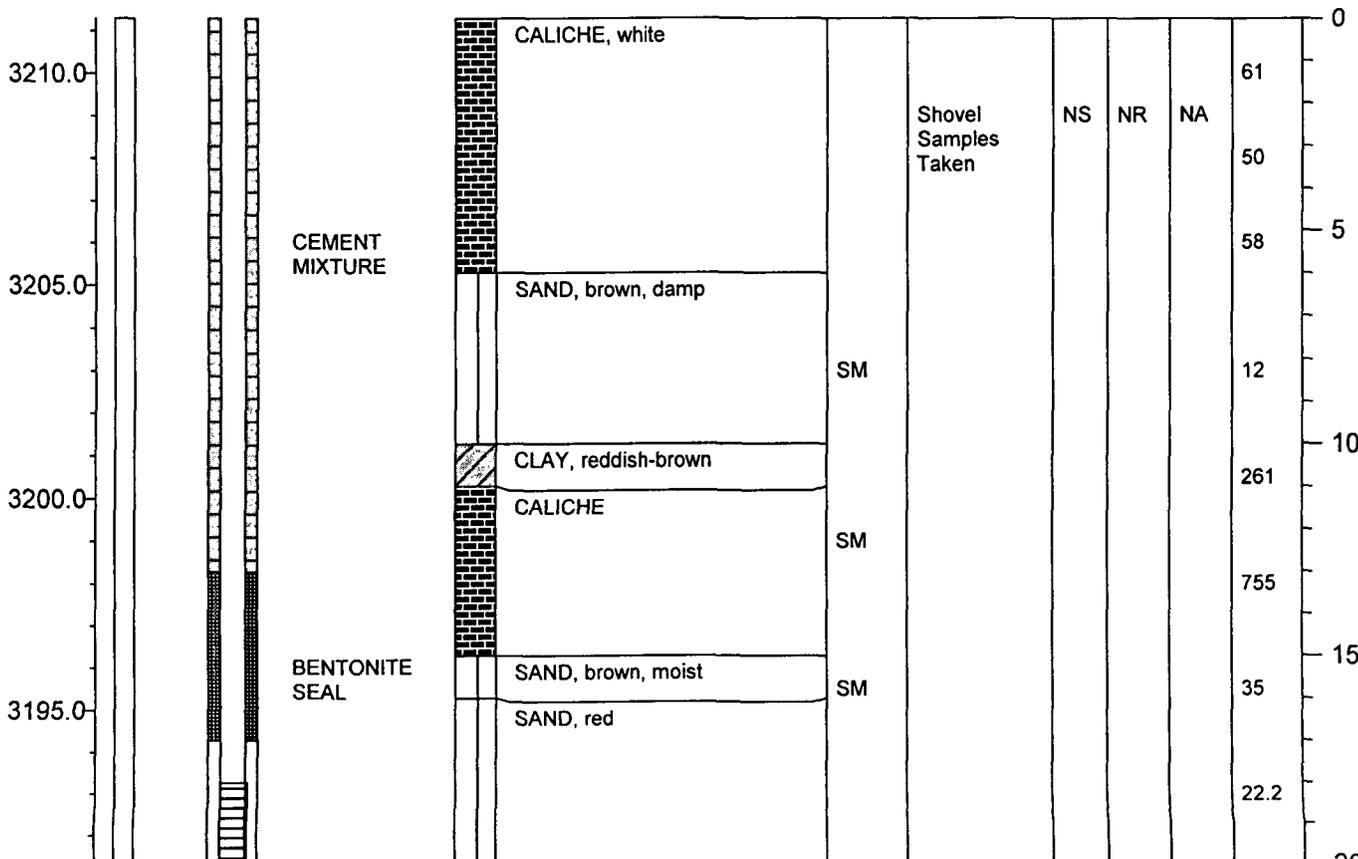


BORE HOLE DIAMETER: 5 (in)
 DRILLED BY: Scarborough Drilling
 DATE: HOLE STARTED: 5/8/01
 DATE: COMPLETED: 5/8/01
 REMARKS: bgs=below ground surface
ND=Not Detected, NS=No Sample
NA=Not Applicable, NR=Not Recorded
msl = mean sea level

WELL COMPLETION INFORMATION

Measuring Point Description (msl): Top of Casing Type of Casing: PVC
 Measuring Point Elevation (msl): 3211.0' msl Casing Diameter: 2 inches
 Static Water Level: 3189.17' msl Slot Size: 0.010
 Well Development: PVC Bailer
 Well Cap: 2" flush mounted locking cap with bolted man hole cover

ELEVATION (msl) - ft	SAMPLE INTERVAL/ID #	COMPLETION DIAGRAM	CLASSIFICATION AND DESCRIPTION	USCS SYMBOL	BLOW COUNT	ANALYTICAL	TIME	% RECOVERY	PID RESULT (ppm)	DEPTH (bgs) - ft
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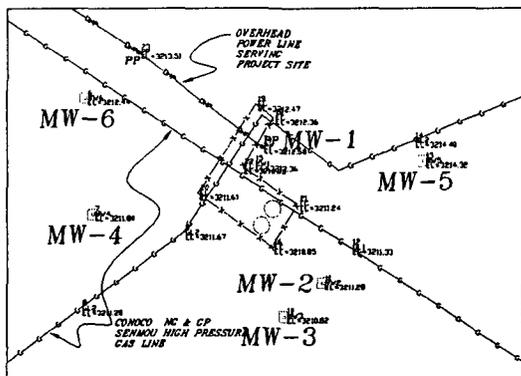


Boring Terminated at 28' bgs

PROJECT NAME: Maxim #1690021/110
 LOCATION: PCA Junction

MONITORING WELL NO. MW-2
 FIELD LOGGED BY: F. Lichnovsky
 ELEVATION: GROUND SURFACE (msl): 3211.29 msl (ft)
 GROUNDWATER ELEVATION (msl): 3189.46 msl (ft)
 DRILL TYPE: Air Rotary

LOCATION MAP

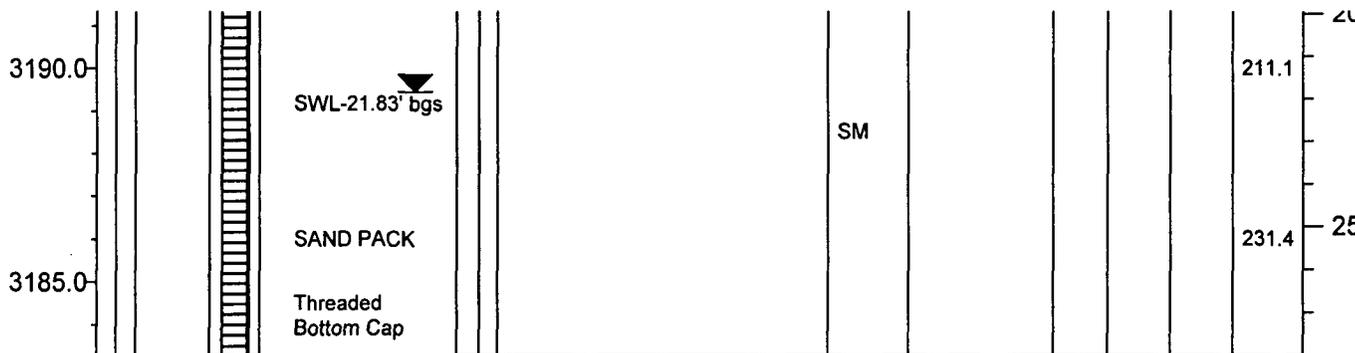


BORE HOLE DIAMETER: 5 (in)
 DRILLED BY: Scarborough Drilling
 DATE: HOLE STARTED: 5/8/01
 DATE: COMPLETED: 5/8/01
 REMARKS: bgs=below ground surface
ND=Not Detected, NS=No Sample
NA=Not Applicable, NR=Not Recorded
msl = mean sea level

WELL COMPLETION INFORMATION

Measuring Point Description (msl): Top of Casing Type of Casing: PVC
 Measuring Point Elevation (msl): 3211.0' msl Casing Diameter: 2 inches
 Static Water Level: 3189.17' msl Slot Size: 0.010
 Well Development: PVC Bailer
 Well Cap: 2" flush mounted locking cap with bolted man hole cover

ELEVATION (msl) - ft	SAMPLE INTERVAL/ID #	COMPLETION DIAGRAM	CLASSIFICATION AND DESCRIPTION	USCS SYMBOL	BLOW COUNT	ANALYTICAL	TIME	% RECOVERY	PID RESULT (ppm)	DEPTH (bgs) - ft
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Boring Terminated at 28' bgs

PROJECT NAME: Maxim #1690021/110

LOCATION: PCA Junction

MONITORING WELL NO. MW-3

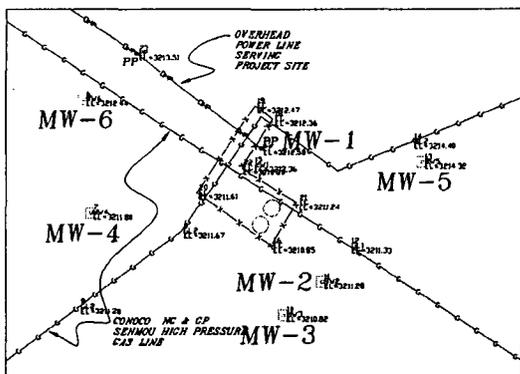
FIELD LOGGED BY: F. Lichnovsky

ELEVATION: GROUND SURFACE (msl): 3210.8 msl (ft)

GROUNDWATER ELEVATION (msl): 3189.46 msl (ft)

DRILL TYPE: Air Rotary

LOCATION MAP



BORE HOLE DIAMETER: 5 (in)

DRILLED BY: Scarborough Drilling

DATE: HOLE STARTED: 5/8/01

DATE: COMPLETED: 5/8/01

REMARKS: bgs=below ground surface
 ND=Not Detected, NS=No Sample
 NA=Not Applicable, NR=Not Recorded
 msl = mean sea level

WELL COMPLETION INFORMATION

Measuring Point Description (msl): Top of Casing

Type of Casing: PVC

Measuring Point Elevation (msl): 3210.48' msl

Casing Diameter: 2 inches

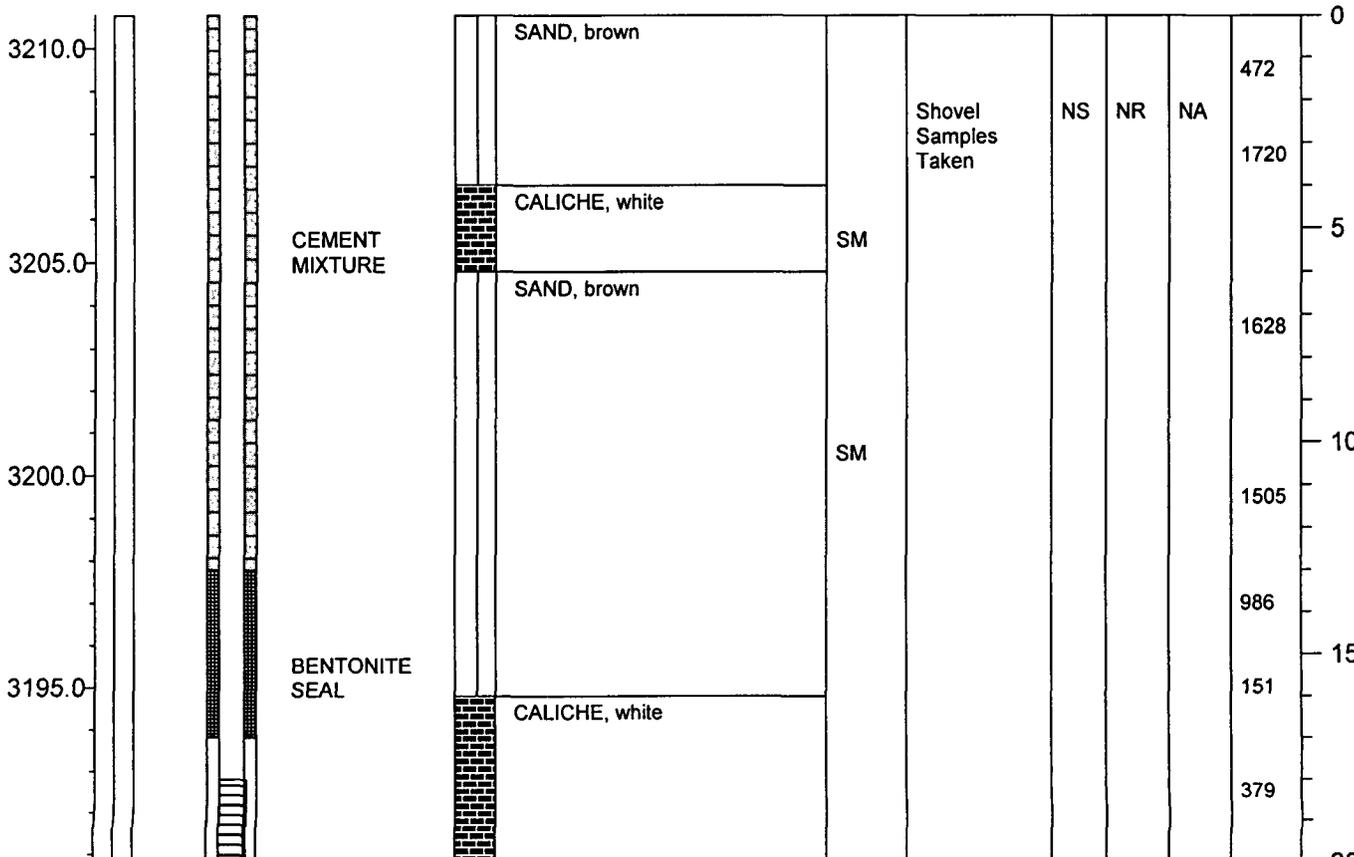
Static Water Level: 3189.14' msl

Slot Size: 0.010

Well Development: PVC Bailor

Well Cap: 2" flush mounted locking cap with bolted man hole cover

ELEVATION (msl) - ft	SAMPLE INTERVAL/ID #	COMPLETION DIAGRAM	CLASSIFICATION AND DESCRIPTION	USCS SYMBOL	BLOW COUNT	ANALYTICAL	TIME	% RECOVERY	PID RESULT (ppm)	DEPTH (bgs) - ft
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Boring Terminated at 28' bgs

1690021/110



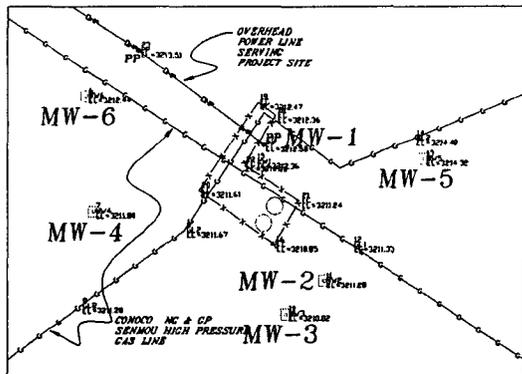
EXPLORATORY BORING LOG

MW-3

PROJECT NAME: Maxim #1690021/110
 LOCATION: PCA Junction

MONITORING WELL NO. MW-3
 FIELD LOGGED BY: F. Lichnovsky
 ELEVATION: GROUND SURFACE (msl): 3210.8 msl (ft)
 GROUNDWATER ELEVATION (msl): 3189.46 msl (ft)
 DRILL TYPE: Air Rotary

LOCATION MAP

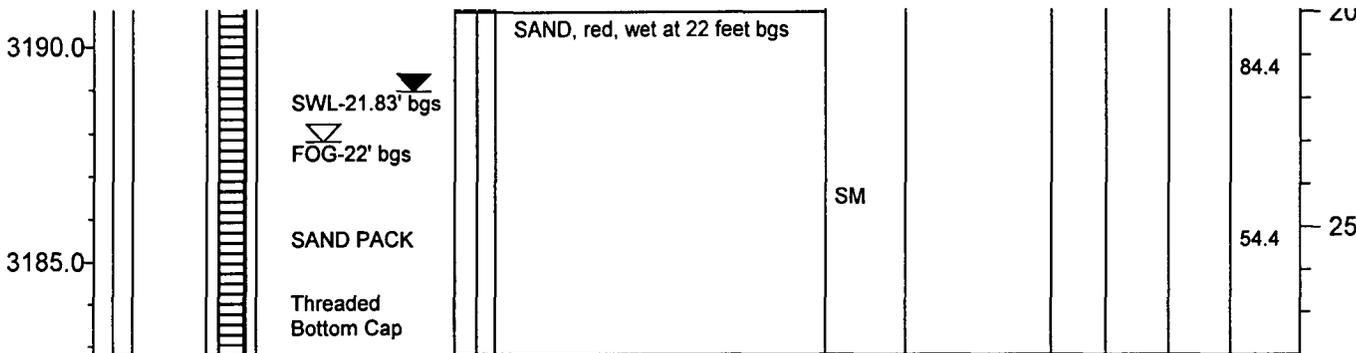


BORE HOLE DIAMETER: 5 (in)
 DRILLED BY: Scarborough Drilling
 DATE: HOLE STARTED: 5/8/01
 DATE: COMPLETED: 5/8/01
 REMARKS: bgs=below ground surface
 ND=Not Detected, NS=No Sample
 NA=Not Applicable, NR=Not Recorded
 msl = mean sea level

WELL COMPLETION INFORMATION

Measuring Point Description (msl): Top of Casing Type of Casing: PVC
 Measuring Point Elevation (msl): 3210.48' msl Casing Diameter: 2 inches
 Static Water Level: 3189.14' msl Slot Size: 0.010
 Well Development: PVC Bailer
 Well Cap: 2" flush mounted locking cap with bolted man hole cover

ELEVATION (msl) - ft	SAMPLE INTERVAL/ID #	COMPLETION DIAGRAM	CLASSIFICATION AND DESCRIPTION	USCS SYMBOL	BLOW COUNT	ANALYTICAL	TIME	% RECOVERY	PID RESULT (ppm)	DEPTH (bgs) - ft
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Boring Terminated at 28' bgs

PROJECT NAME: Maxim #1690021/110

LOCATION: PCA Junction

MONITORING WELL NO. MW-4

FIELD LOGGED BY: K.Henderson

ELEVATION: GROUND SURFACE (msl): 3211.78' msl (ft)

GROUNDWATER ELEVATION (msl): 24.8' bgs (ft)

DRILL TYPE: Air Rotary

Intersol Rand TH-60

BORE HOLE DIAMETER: 8.25 (in)

DRILLED BY: Harrison & Cooper Drilling

DATE: HOLE STARTED: 3/27/02

DATE: COMPLETED: 3/27/02

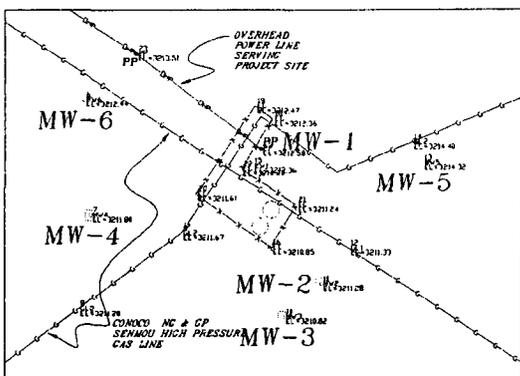
REMARKS: bgs=below ground surface

ND=Not Detected, NS=No Sample

NA=Not Applicable

msl = mean sea level

LOCATION MAP



WELL COMPLETION INFORMATION

Measuring Point Description (msl): Top of Casing

Type of Casing: PVC

Measuring Point Elevation (msl): 3213.96' msl

Casing Diameter: 4 inches

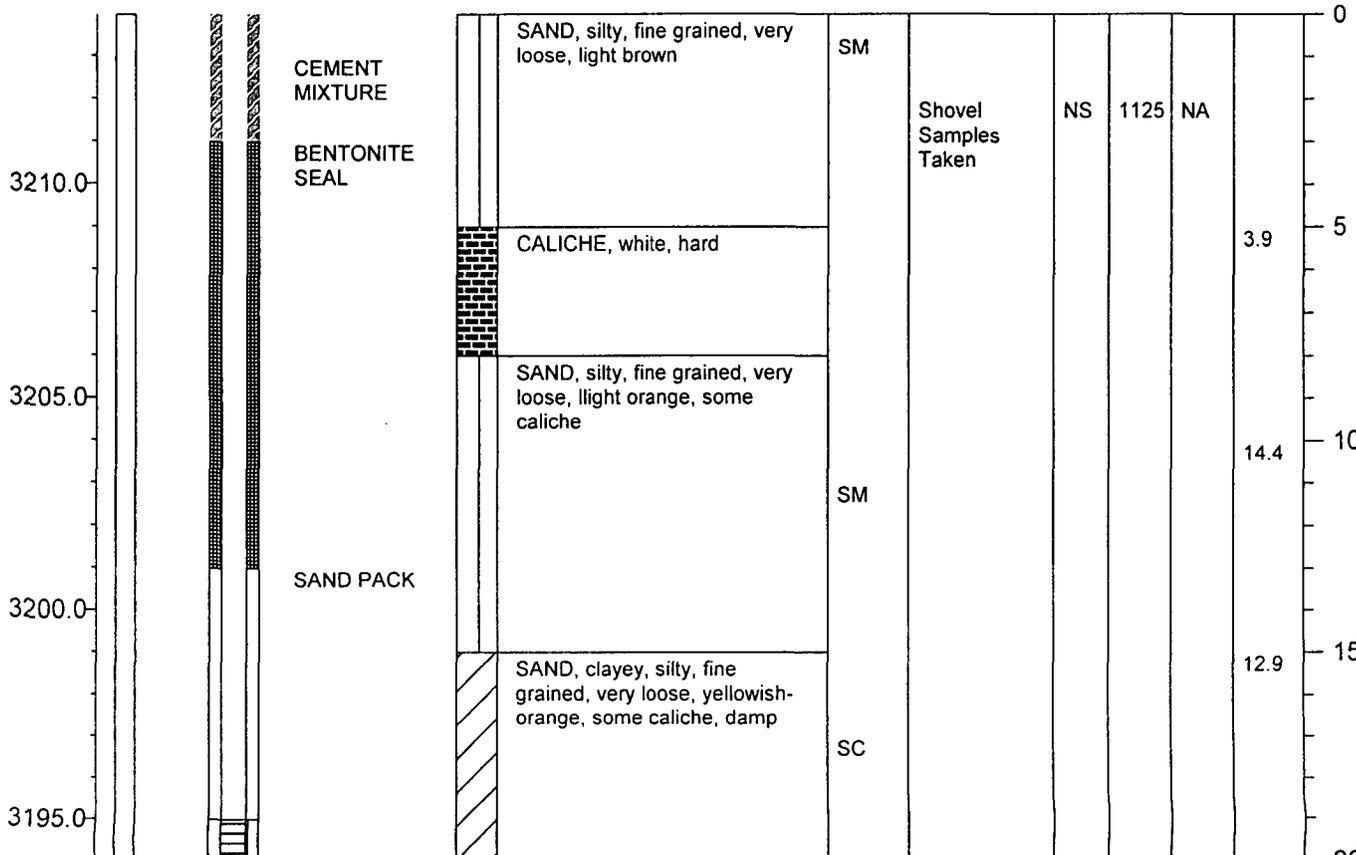
Static Water Level: 30.0' bgs

Slot Size: 0.010

Well Development: PVC Bailor

Well Cap: 4" slip on cap with stick up locking metal protector

ELEVATION (msl) - ft	SAMPLE INTERVAL/ID #	COMPLETION DIAGRAM	CLASSIFICATION AND DESCRIPTION	USCS SYMBOL	BLOW COUNT	ANALYTICAL	TIME	% RECOVERY	PID RESULT (ppm)	DEPTH (bgs) - ft
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Boring Terminated at 35' bgs

1690021/110



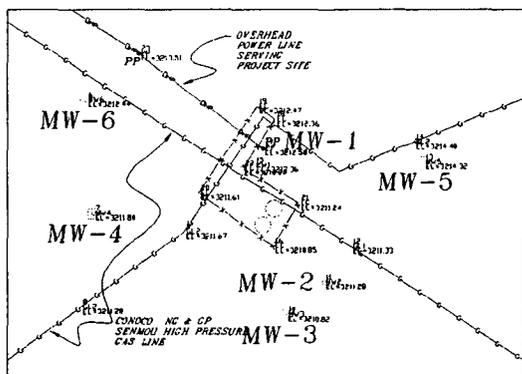
EXPLORATORY BORING LOG

MW-4

PROJECT NAME: Maxim #1690021/110
 LOCATION: PCA Junction

MONITORING WELL NO. MW-4
 FIELD LOGGED BY: K.Henderson
 ELEVATION: GROUND SURFACE (msl): 3211.78' msl (ft)
 GROUNDWATER ELEVATION (msl): 24.8' bgs (ft)
 DRILL TYPE: Air Rotary
 Intersol Rand TH-60
 BORE HOLE DIAMETER: 8.25 (in)
 DRILLED BY: Harrison & Cooper Drilling
 DATE: HOLE STARTED: 3/27/02
 DATE: COMPLETED: 3/27/02
 REMARKS: bgs=below ground surface
 ND=Not Detected, NS=No Sample
 NA=Not Applicable
 msl = mean sea level

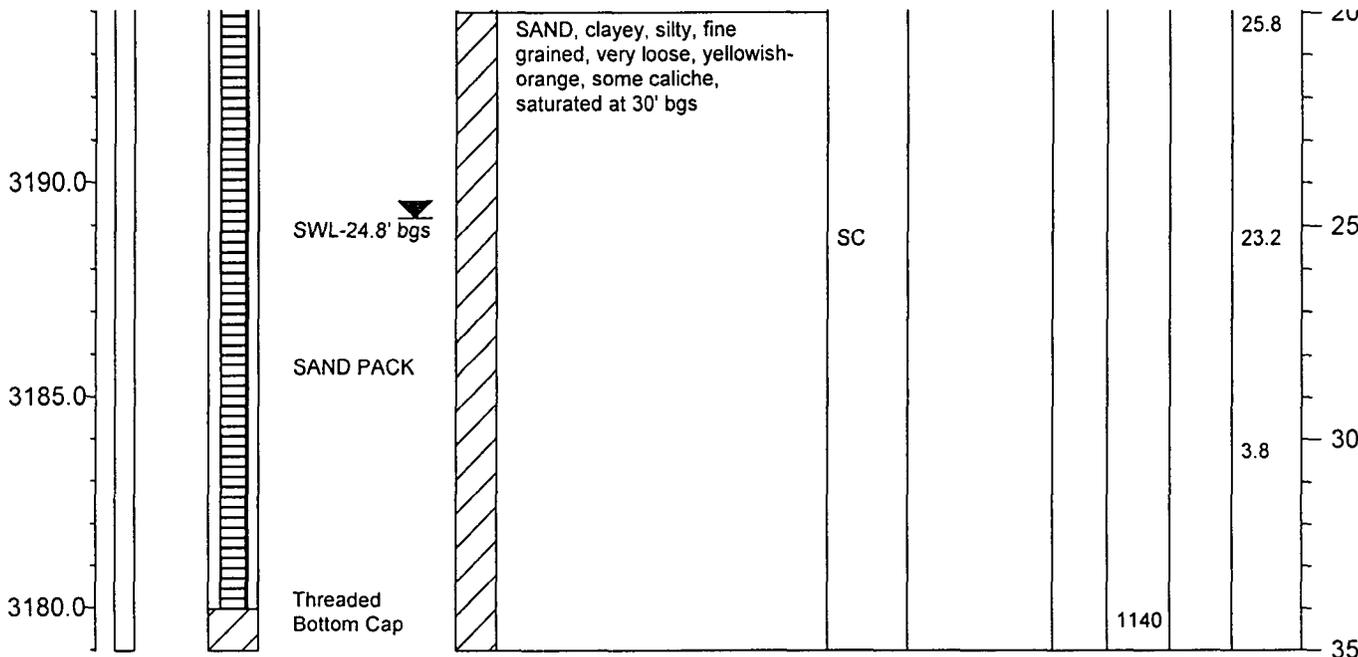
LOCATION MAP



WELL COMPLETION INFORMATION

Measuring Point Description (msl): Top of Casing Type of Casing: PVC
 Measuring Point Elevation (msl): 3213.96' msl Casing Diameter: 4 inches
 Static Water Level: 30.0' bgs Slot Size: 0.010
 Well Development: PVC Bailer
 Well Cap: 4" slip on cap with stick up locking metal protector

ELEVATION (msl) - ft	SAMPLE INTERVAL/ID #	COMPLETION DIAGRAM	CLASSIFICATION AND DESCRIPTION	USCS SYMBOL	BLOW COUNT	ANALYTICAL	TIME	% RECOVERY	PID RESULT (ppm)	DEPTH (bgs) - ft
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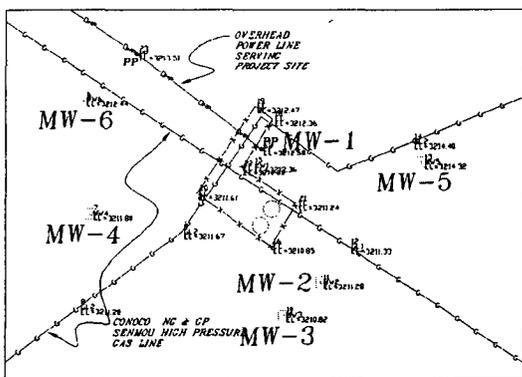


Boring Terminated at 35' bgs

PROJECT NAME: Maxim #1690021/110
 LOCATION: PCA Junction

MONITORING WELL NO. MW-5
 FIELD LOGGED BY: K. Henderson
 ELEVATION: GROUND SURFACE (msl): 3214.36' msl (ft)
 GROUNDWATER ELEVATION (msl): 26.0' bgs (ft)
 DRILL TYPE: Air Rotary
 Intersol Rand TH-60
 BORE HOLE DIAMETER: 8.25 (in)
 DRILLED BY: Harrison & Cooper Drilling
 DATE: HOLE STARTED: 3/27/02
 DATE: COMPLETED: 3/27/02
 REMARKS: bgs = below ground surface
 ND=Not Detected, NS=No Sample
 NA=Not Applicable
 msl = mean sea level

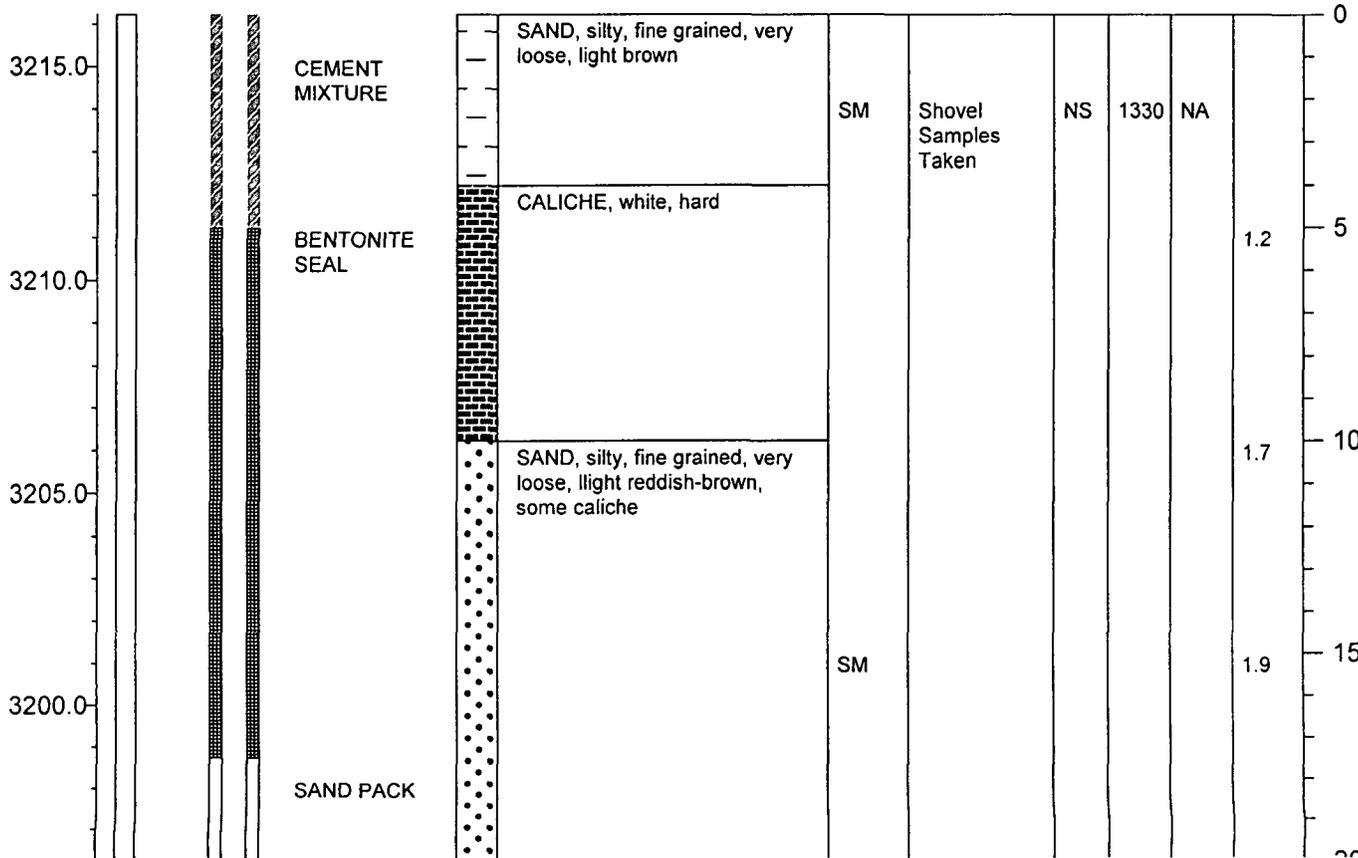
LOCATION MAP



WELL COMPLETION INFORMATION

Measuring Point Description (msl): Top of Casing Type of Casing: PVC
 Measuring Point Elevation (msl): 3216.23' msl Casing Diameter: 4 inches
 Static Water Level: 25' bgs Slot Size: 0.010
 Well Development: PVC Bailer
 Well Cap: 4" slip on cap with stick up locking metal protector

ELEVATION (msl) - ft	SAMPLE INTERVAL/ID #	COMPLETION DIAGRAM	CLASSIFICATION AND DESCRIPTION	USCS SYMBOL	BLOW COUNT	ANALYTICAL	TIME	% RECOVERY	PID RESULT (ppm)	DEPTH (bgs) - ft
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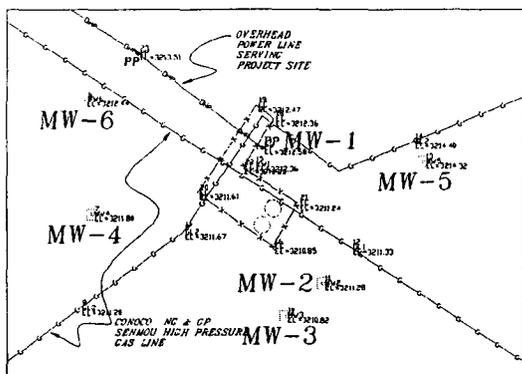


Boring Terminated at 39.5' bgs

PROJECT NAME: Maxim #1690021/110
 LOCATION: PCA Junction

MONITORING WELL NO. MW-5
 FIELD LOGGED BY: K.Henderson
 ELEVATION: GROUND SURFACE (msl): 3214.36' msl (ft)
 GROUNDWATER ELEVATION (msl): 26.0' bgs (ft)
 DRILL TYPE: Air Rotary
 Intersol Rand TH-60
 BORE HOLE DIAMETER: 8.25 (in)
 DRILLED BY: Harrison & Cooper Drilling
 DATE: HOLE STARTED: 3/27/02
 DATE: COMPLETED: 3/27/02
 REMARKS: bgs = below ground surface
 ND=Not Detected, NS=No Sample
 NA=Not Applicable
 msl = mean sea level

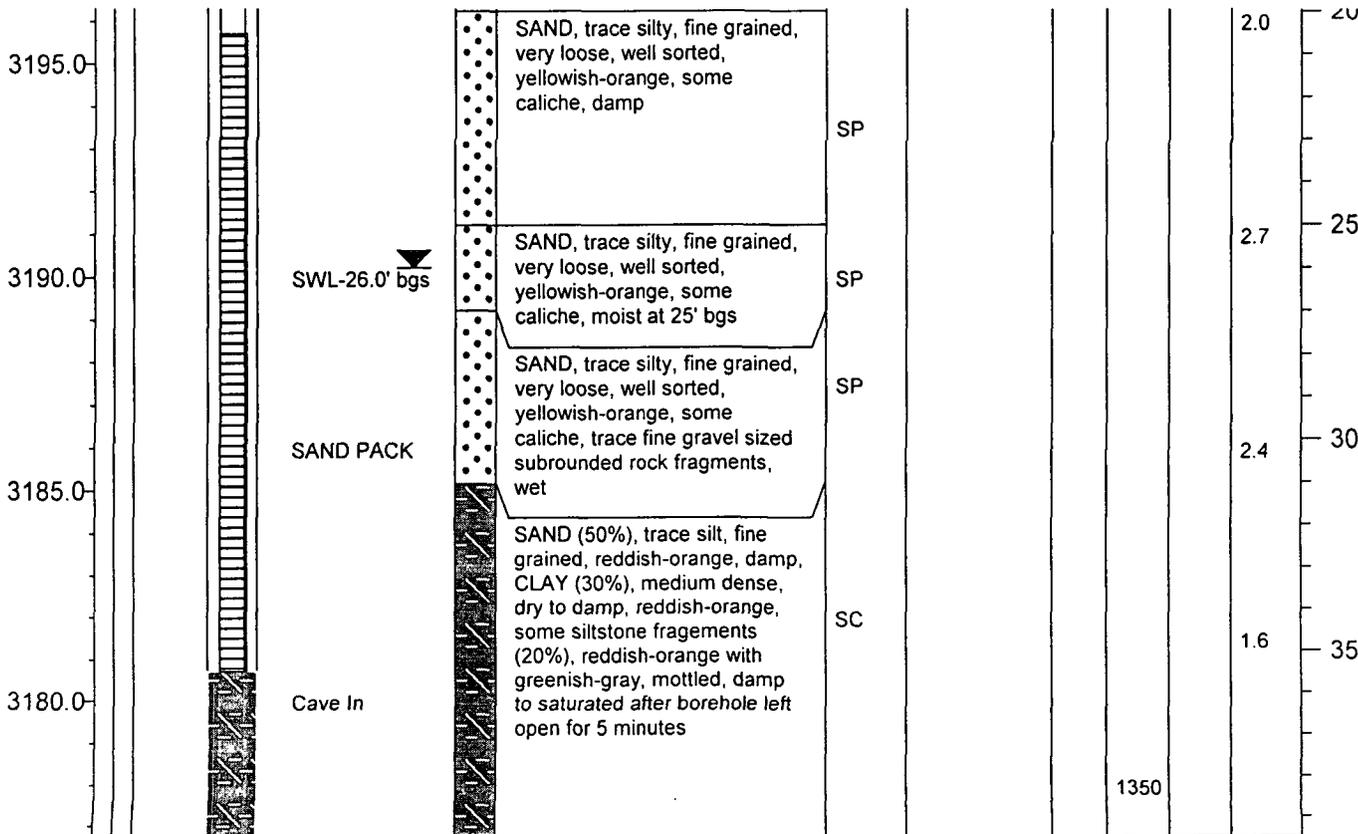
LOCATION MAP



WELL COMPLETION INFORMATION

Measuring Point Description (msl): Top of Casing Type of Casing: PVC
 Measuring Point Elevation (msl): 3216.23' msl Casing Diameter: 4 inches
 Static Water Level: 25' bgs Slot Size: 0.010
 Well Development: PVC Bailer
 Well Cap: 4" slip on cap with stick up locking metal protector

ELEVATION (msl) - ft	SAMPLE INTERVAL/ID #	COMPLETION DIAGRAM	CLASSIFICATION AND DESCRIPTION	USCS SYMBOL	BLOW COUNT	ANALYTICAL	TIME	% RECOVERY	PID RESULT (ppm)	DEPTH (bgs) - ft
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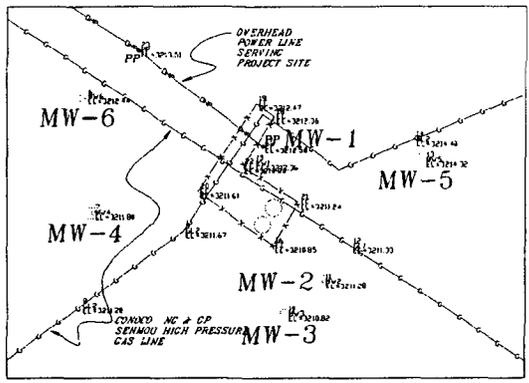


Boring Terminated at 39.5' bgs

PROJECT NAME: Maxim #1690021/110
 LOCATION: PCA Junction

MONITORING WELL NO. MW-6
 FIELD LOGGED BY: K.Henderson
 ELEVATION: GROUND SURFACE (msl): 3212.42' msl (ft)
 GROUNDWATER ELEVATION (msl): 25.0' bgs (ft)
 DRILL TYPE: Air Rotary
 Intersol Rand TH-60
 BORE HOLE DIAMETER: 8.25 (in)
 DRILLED BY: Harrison & Cooper Drilling
 DATE: HOLE STARTED: 3/27/02
 DATE: COMPLETED: 3/27/02
 REMARKS: bgs = below ground surface
 ND=Not Detected, NS=No Sample
 NA=Not Applicable
 msl = mean sea level

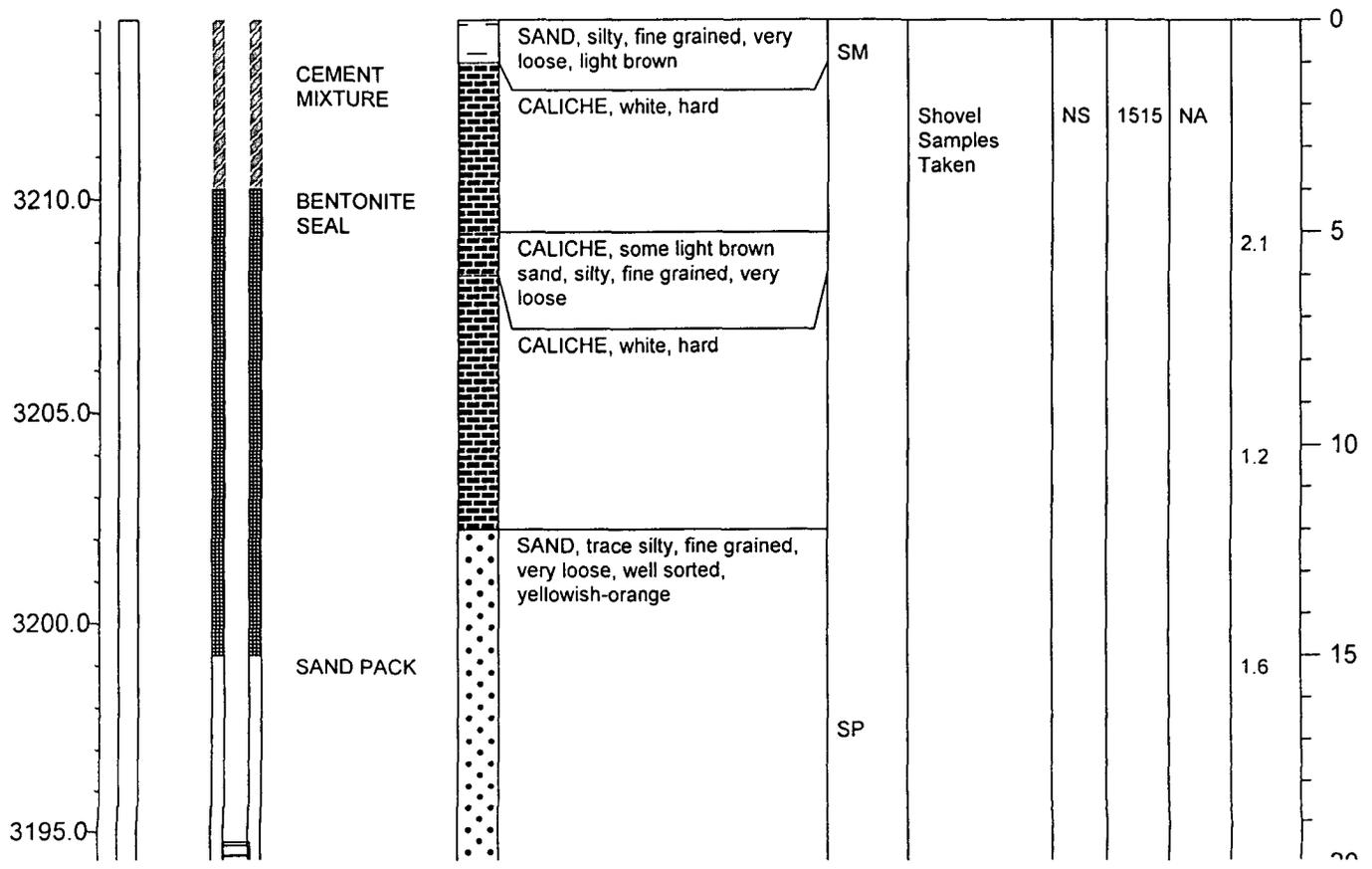
LOCATION MAP



WELL COMPLETION INFORMATION

Measuring Point Description (msl): Top of Casing
 Measuring Point Elevation (msl): 3214.24' msl
 Static Water Level: 25' bgs
 Well Development: PVC Bailer
 Well Cap: 4" slip on cap with stick up locking metal protector
 Type of Casing: PVC
 Casing Diameter: 4 inches
 Slot Size: 0.010

ELEVATION (msl) - ft	SAMPLE INTERVAL/ID #	COMPLETION DIAGRAM	CLASSIFICATION AND DESCRIPTION	USCS SYMBOL	BLOW COUNT	ANALYTICAL	TIME	% RECOVERY	PID RESULT (ppm)	DEPTH (bgs) - ft
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Boring Terminated at 39.5' bgs

PROJECT NAME: Maxim #1690021/110

LOCATION: PCA Junction

MONITORING WELL NO. MW-6

FIELD LOGGED BY: K.Henderson

ELEVATION: GROUND SURFACE (msl): 3212.42' msl (ft)

GROUNDWATER ELEVATION (msl): 25.0' bgs (ft)

DRILL TYPE: Air Rotary

Intersol Rand TH-60

BORE HOLE DIAMETER: 8.25 (in)

DRILLED BY: Harrison & Cooper Drilling

DATE: HOLE STARTED: 3/27/02

DATE: COMPLETED: 3/27/02

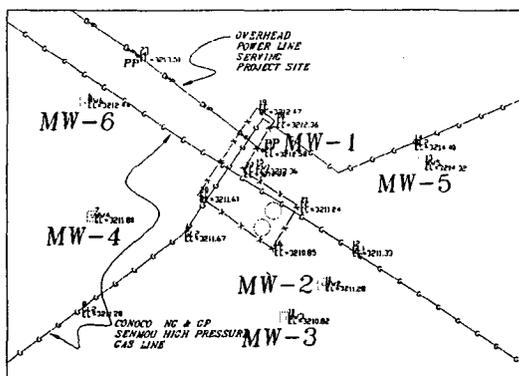
REMARKS: bgs = below ground surface

ND=Not Detected, NS=No Sample

NA=Not Applicable

msl = mean sea level

LOCATION MAP



WELL COMPLETION INFORMATION

Measuring Point Description (msl): Top of Casing

Type of Casing: PVC

Measuring Point Elevation (msl): 3214.24' msl

Casing Diameter: 4 inches

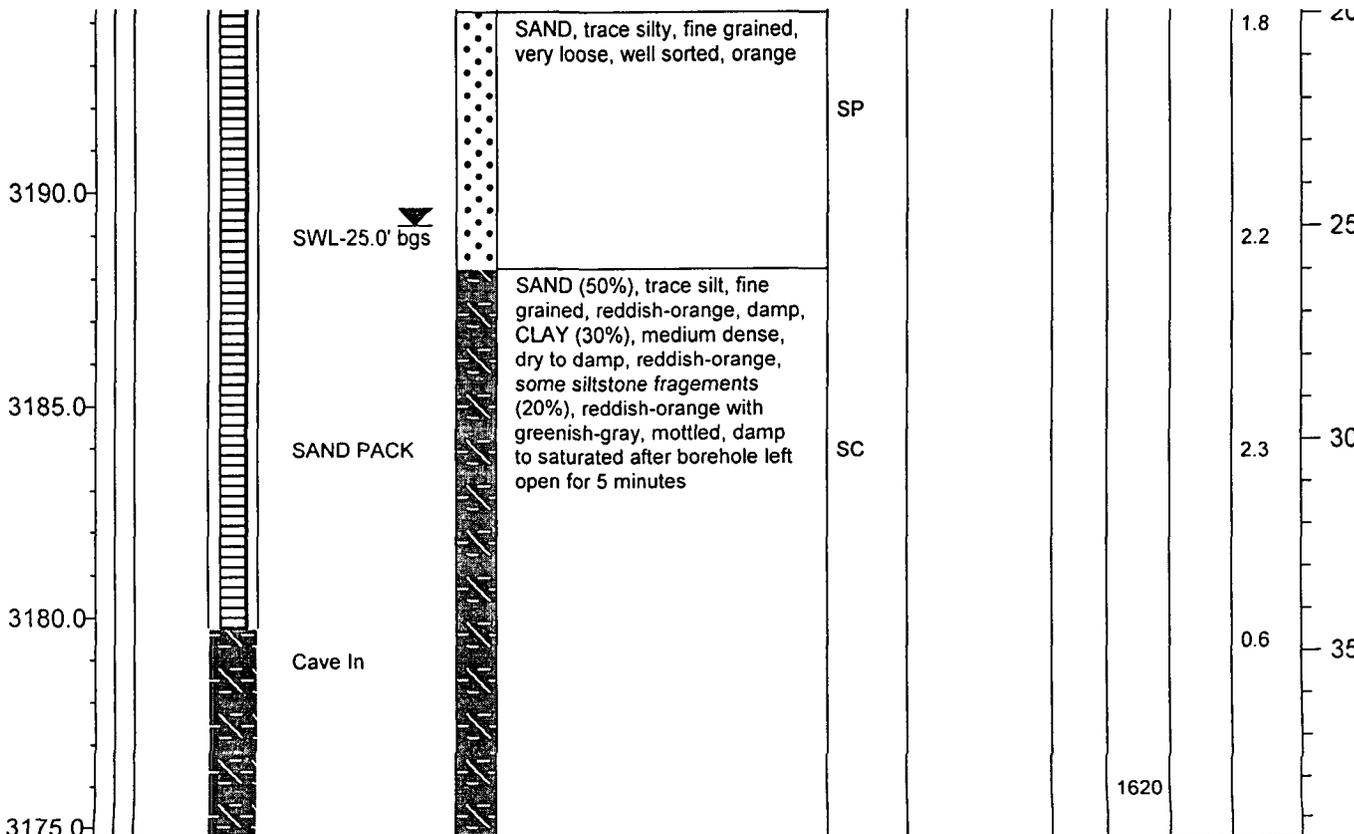
Static Water Level: 25' bgs

Slot Size: 0.010

Well Development: PVC Bailer

Well Cap: 4" slip on cap with stick up locking metal protector

ELEVATION (msl) - ft	SAMPLE INTERVAL/ID #	COMPLETION DIAGRAM	CLASSIFICATION AND DESCRIPTION	USCS SYMBOL	BLOW COUNT	ANALYTICAL	TIME	% RECOVERY	PID RESULT (ppm)	DEPTH (bgs) - ft
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Boring Terminated at 39.5' bgs

1690021/110

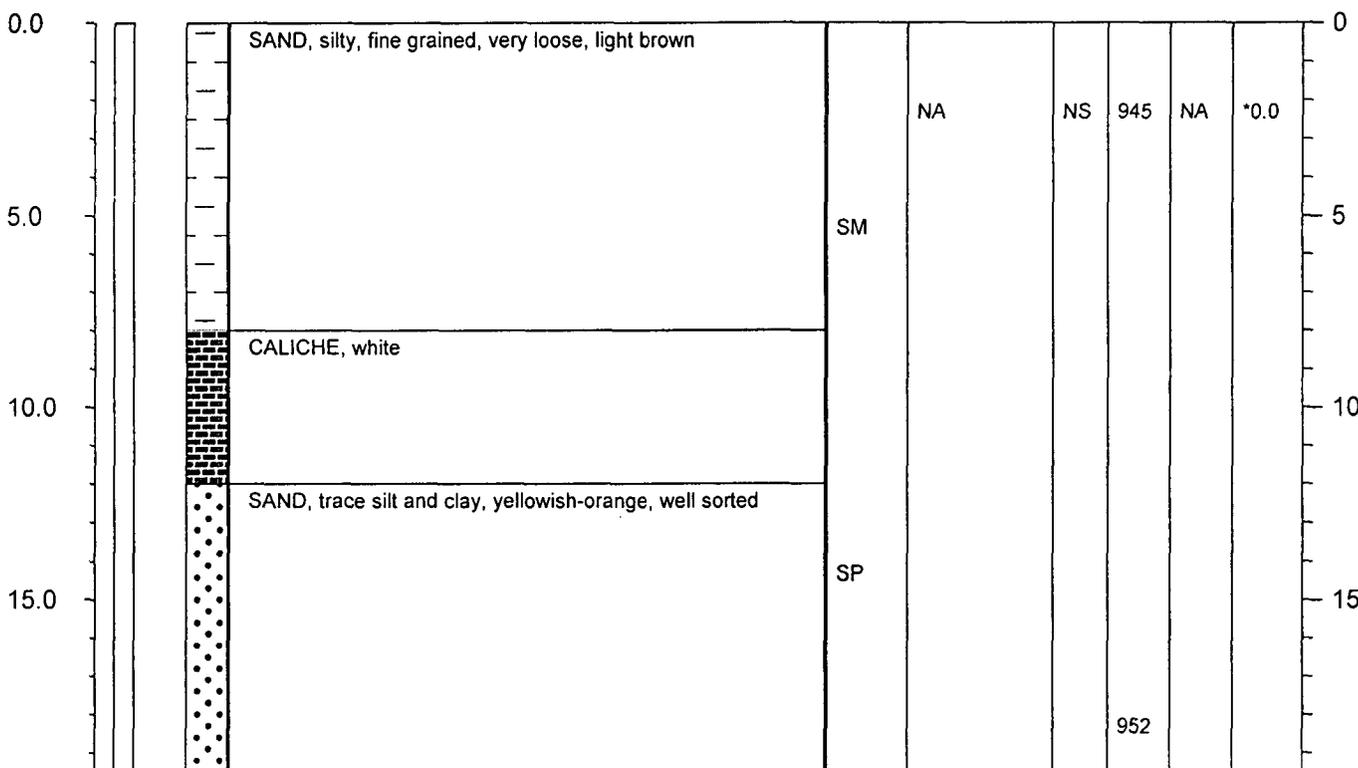


EXPLORATORY BORING LOG

MW-6

PROJECT NAME: Maxim #1690021/110 LOCATION: PCA Junction DRILLED BY: Harrison & Cooper Drilling DATE HOLE DRILLED: 3/26/02 DATE ABANDONED: 3/26/02 REMARKS: bgs = below ground surface NS=Not Sampled NA=Not Applicable	SOIL VAPOR BORING NO. SVB-1 FIELD LOGGED BY: K.Henderson GROUNDWATER LEVEL (bgs): Not Encountered (ft) DRILL TYPE: Air Rotary Intersol Rand TH-60 BORE HOLE DIAMETER: 8.25 (in)
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DEPTH (bgs) - ft	SAMPLE INTERVAL/ID #	CLASSIFICATION AND DESCRIPTION	USCS SYMBOL	BLOW COUNT	ANALYTICAL	TIME	% RECOVERY	* PID RESULT (ppm)	DEPTH (bgs) - ft
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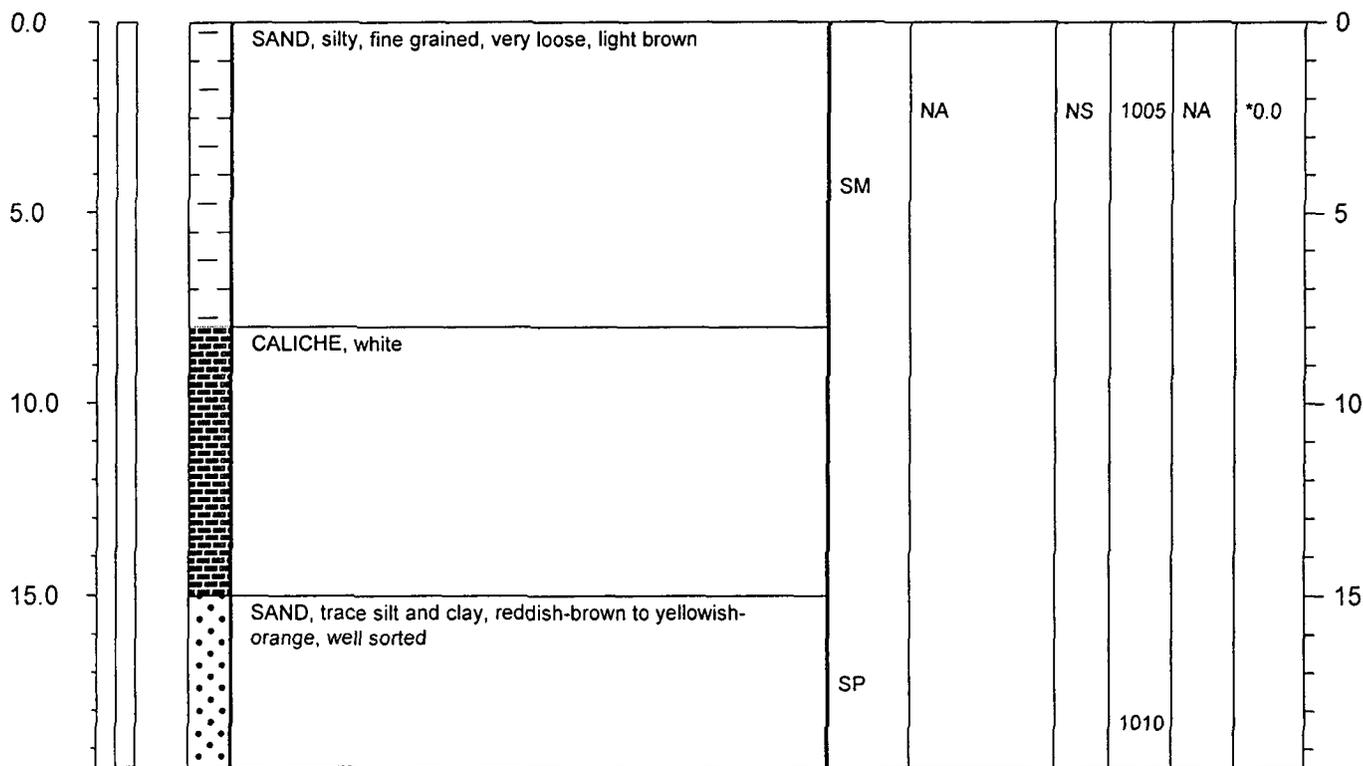


Boring Terminated at 19.5' bgs

* Soil Vapor Monitoring Result

PROJECT NAME: <u>Maxim #1690021/110</u> LOCATION: <u>PCA Junction</u> DRILLED BY: <u>Harrison & Cooper Drilling</u> DATE HOLE DRILLED: <u>3/26/02</u> DATE ABANDONED: <u>3/26/02</u> REMARKS: <u>bgs = below ground surface</u> <u>NS=Not Sampled</u> <u>NA=Not Applicable</u>	SOIL VAPOR BORING NO. <u>SVB-2</u> FIELD LOGGED BY: <u>K.Henderson</u> GROUNDWATER LEVEL (bgs): <u>Not Encountered</u> (ft) DRILL TYPE: <u>Air Rotary</u> <u>Intersol Rand TH-60</u> BORE HOLE DIAMETER: <u>8.25</u> (in)
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DEPTH (bgs) - ft	SAMPLE INTERVAL/ID #	CLASSIFICATION AND DESCRIPTION	USCS SYMBOL	BLOW COUNT	ANALYTICAL	TIME	% RECOVERY	* PID RESULT (ppm)	DEPTH (bgs) - ft
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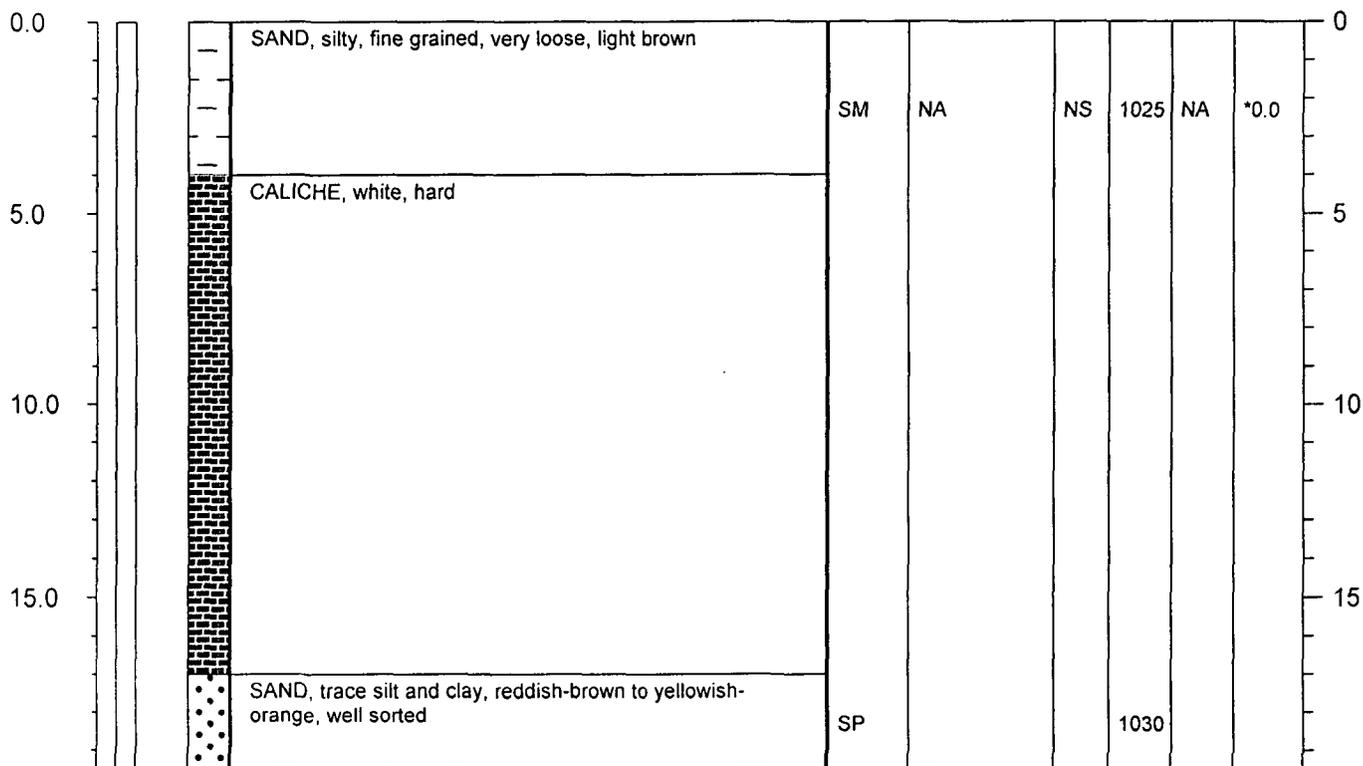


Boring Terminated at 19.5' bgs

* Soil Vapor Monitoring Result

PROJECT NAME: <u>Maxim #1690021/110</u> LOCATION: <u>PCA Junction</u> DRILLED BY: <u>Harrison & Cooper Drilling</u> DATE HOLE DRILLED: <u>3/26/02</u> DATE ABANDONED: <u>3/26/02</u> REMARKS: <u>bgs = below ground surface</u> <u>NS=Not Sampled</u> <u>NA=Not Applicable</u>	SOIL VAPOR BORING NO. <u>SVB-3</u> FIELD LOGGED BY: <u>K.Henderson</u> GROUNDWATER LEVEL (bgs): <u>Not Encountered</u> (ft) DRILL TYPE: <u>Air Rotary</u> <u>Intersol Rand TH-60</u> BORE HOLE DIAMETER: <u>8.25</u> (in)
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DEPTH (bgs) - ft	SAMPLE INTERVAL/ID #	CLASSIFICATION AND DESCRIPTION	USCS SYMBOL	BLOW COUNT	ANALYTICAL	TIME	% RECOVERY	* PID RESULT (ppm)	DEPTH (bgs) - ft
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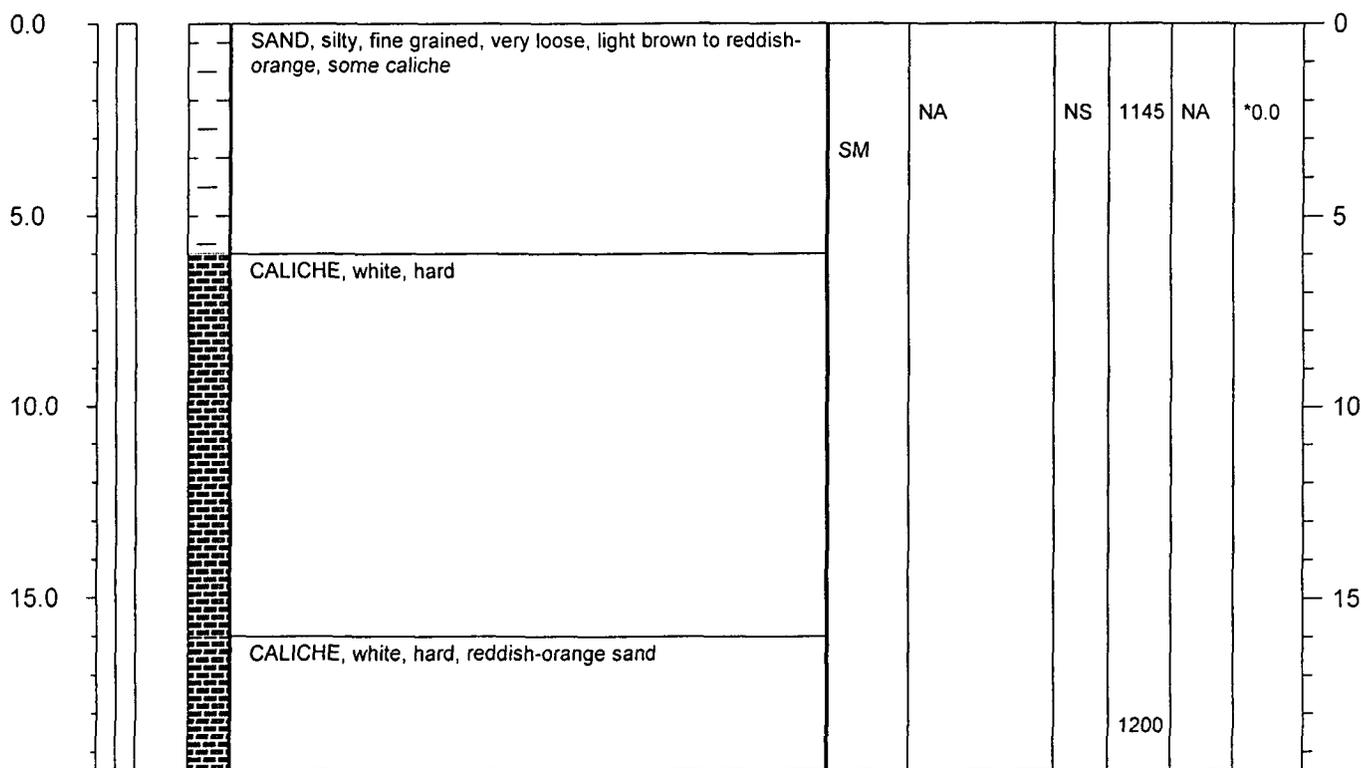


Boring Terminated at 19.5' bgs

* Soil Vapor Monitoring Result

PROJECT NAME: <u>Maxim #1690021/110</u> LOCATION: <u>PCA Junction</u> DRILLED BY: <u>Harrison & Cooper Drilling</u> DATE HOLE DRILLED: <u>3/26/02</u> DATE ABANDONED: <u>3/26/02</u> REMARKS: <u>bgs = below ground surface</u> <u>NS=Not Sampled</u> <u>NA=Not Applicable</u>	SOIL VAPOR BORING NO. <u>SVB-4</u> FIELD LOGGED BY: <u>K.Henderson</u> GROUNDWATER LEVEL (bgs): <u>Not Encountered (ft)</u> DRILL TYPE: <u>Air Rotary</u> <u>Intersol Rand TH-60</u> BORE HOLE DIAMETER: <u>8.25</u> (in)
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DEPTH (bgs) - ft	SAMPLE INTERVAL/ID #	CLASSIFICATION AND DESCRIPTION	USCS SYMBOL	BLOW COUNT	ANALYTICAL	TIME	% RECOVERY	* PID RESULT (ppm)	DEPTH (bgs) - ft
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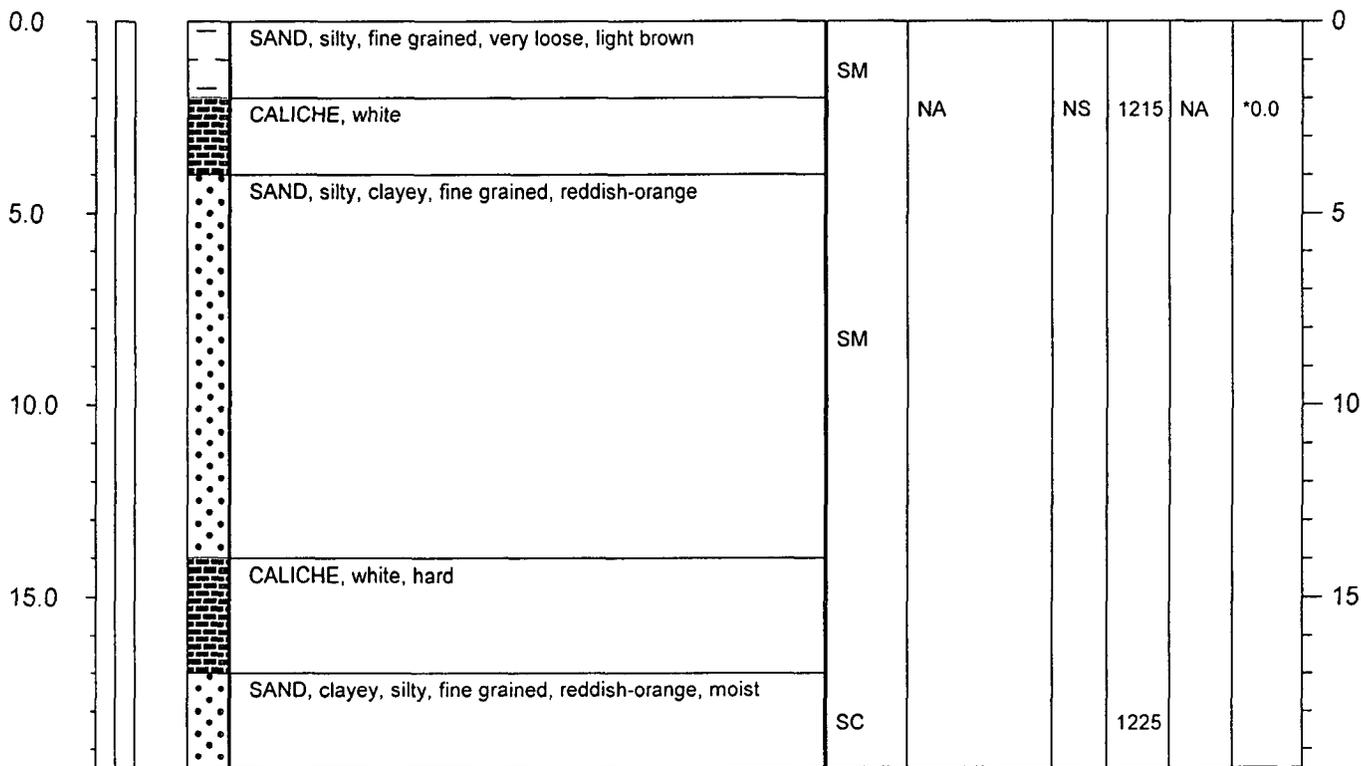


Boring Terminated at 19.5' bgs

* Soil Vapor Monitoring Result

PROJECT NAME: <u>Maxim #1690021/110</u> LOCATION: <u>PCA Junction</u> DRILLED BY: <u>Harrison & Cooper Drilling</u> DATE HOLE DRILLED: <u>3/26/02</u> DATE ABANDONED: <u>3/26/02</u> REMARKS: <u>bgs = below ground surface</u> <u>NS=Not Sampled</u> <u>NA=Not Applicable</u>	SOIL VAPOR BORING NO. <u>SVB-5</u> FIELD LOGGED BY: <u>K.Henderson</u> GROUNDWATER LEVEL (bgs): <u>Not Encountered</u> (ft) DRILL TYPE: <u>Air Rotary</u> <u>Intersol Rand TH-60</u> BORE HOLE DIAMETER: <u>8.25</u> (in)
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DEPTH (bgs) - ft	SAMPLE INTERVAL/ID #	CLASSIFICATION AND DESCRIPTION	USCS SYMBOL	BLOW COUNT	ANALYTICAL	TIME	% RECOVERY	* PID RESULT (ppm)	DEPTH (bgs) - ft
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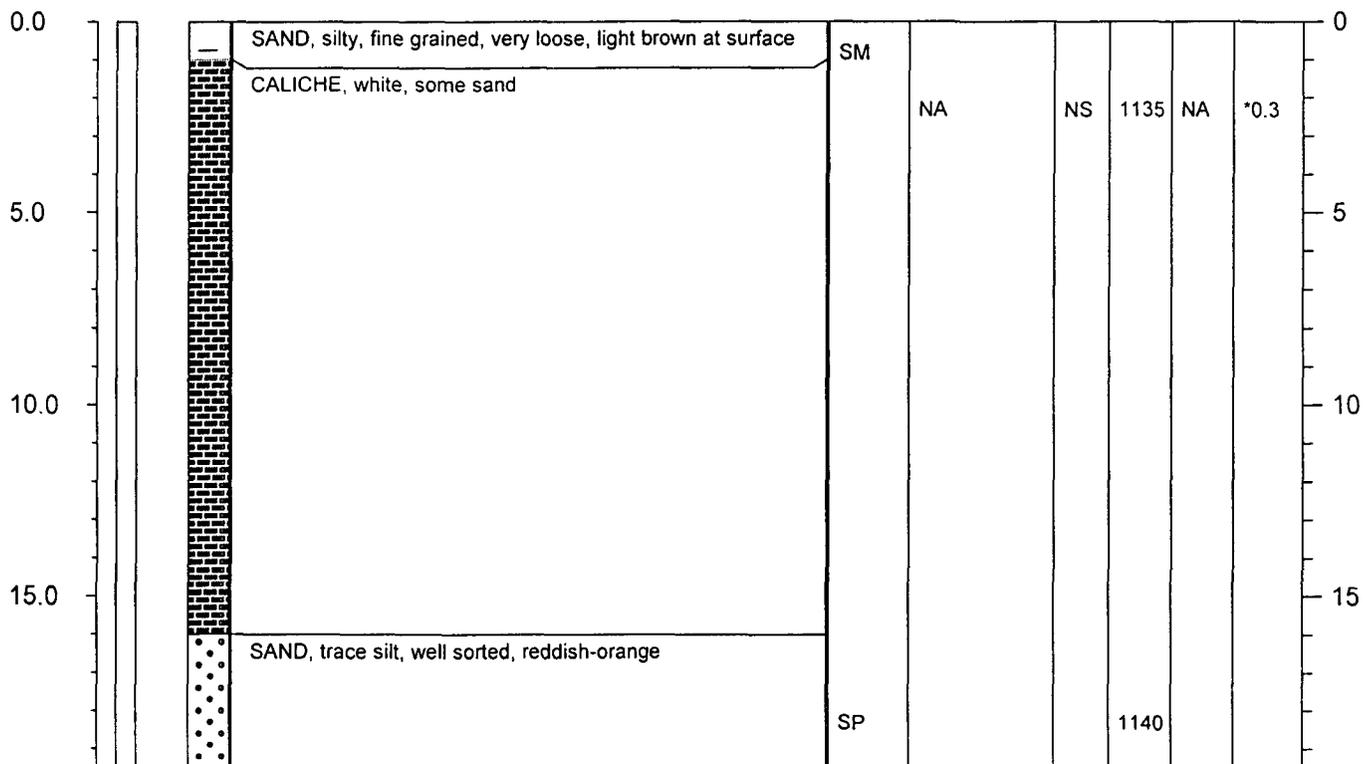


Boring Terminated at 19.5' bgs

* Soil Vapor Monitoring Result

PROJECT NAME: Maxim #1690021/110 LOCATION: PCA Junction DRILLED BY: Harrison & Cooper Drilling DATE HOLE DRILLED: 3/26/02 DATE ABANDONED: 3/26/02 REMARKS: bgs = below ground surface NS=Not Sampled NA=Not Applicable	SOIL VAPOR BORING NO. SVB-6 FIELD LOGGED BY: K.Henderson GROUNDWATER LEVEL (bgs): Not Encountered (ft) DRILL TYPE: Air Rotary Intersol Rand TH-60 BORE HOLE DIAMETER: 8.25 (in)
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DEPTH (bgs) - ft	SAMPLE INTERVAL/ID #	CLASSIFICATION AND DESCRIPTION	USCS SYMBOL	BLOW COUNT	ANALYTICAL	TIME	% RECOVERY	* PID RESULT (ppm)	DEPTH (bgs) - ft
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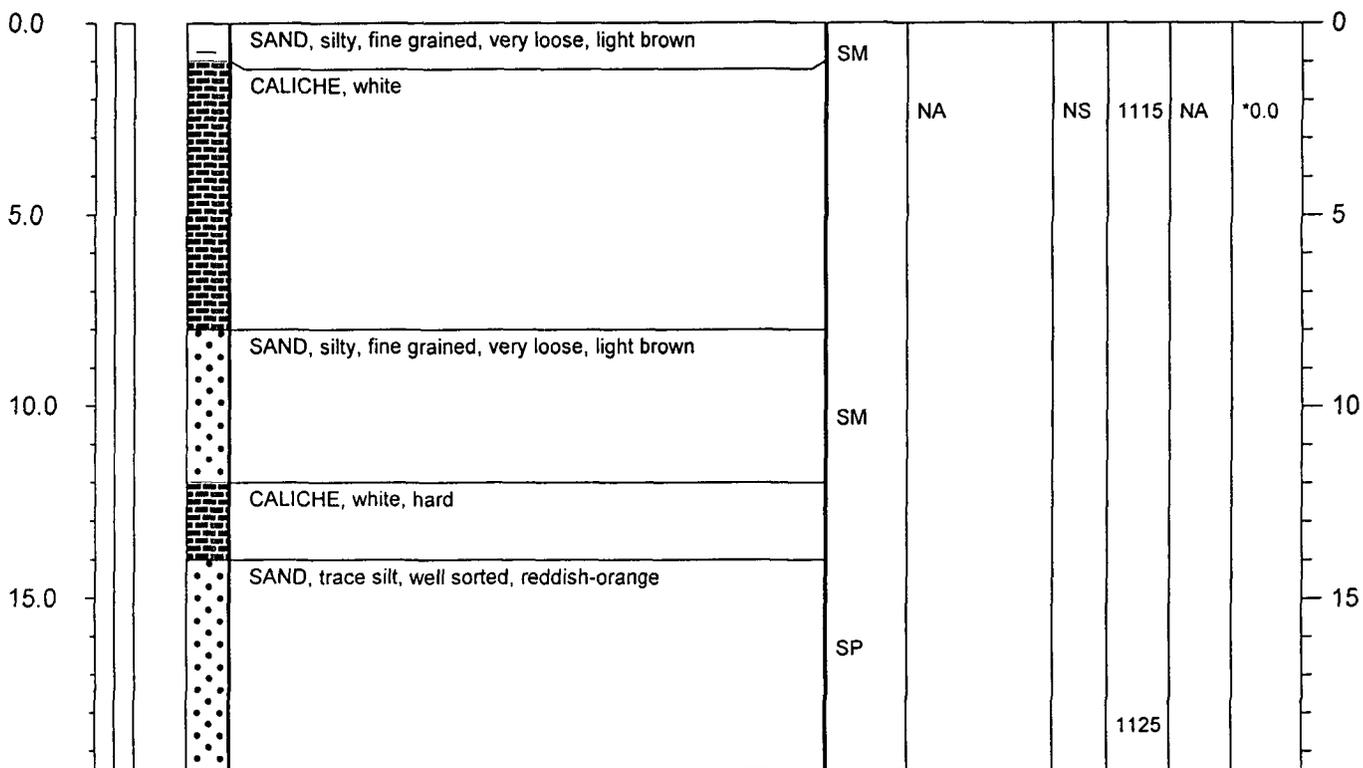


Boring Terminated at 19.5' bgs

* Soil Vapor Monitoring Result

PROJECT NAME: <u>Maxim #1690021/110</u> LOCATION: <u>PCA Junction</u> DRILLED BY: <u>Harrison & Cooper Drilling</u> DATE HOLE DRILLED: <u>3/26/02</u> DATE ABANDONED: <u>3/26/02</u> REMARKS: <u>bgs = below ground surface</u> <u>NS=Not Sampled</u> <u>NA=Not Applicable</u>	SOIL VAPOR BORING NO. <u>SVB-7</u> FIELD LOGGED BY: <u>K.Henderson</u> GROUNDWATER LEVEL (bgs): <u>Not Encountered (ft)</u> DRILL TYPE: <u>Air Rotary</u> <u>Intersol Rand TH-60</u> BORE HOLE DIAMETER: <u>8.25 (in)</u>
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DEPTH (bgs) - ft	SAMPLE INTERVAL/ID #	CLASSIFICATION AND DESCRIPTION	USCS SYMBOL	BLOW COUNT	ANALYTICAL	TIME	% RECOVERY	* PID RESULT (ppm)	DEPTH (bgs) - ft
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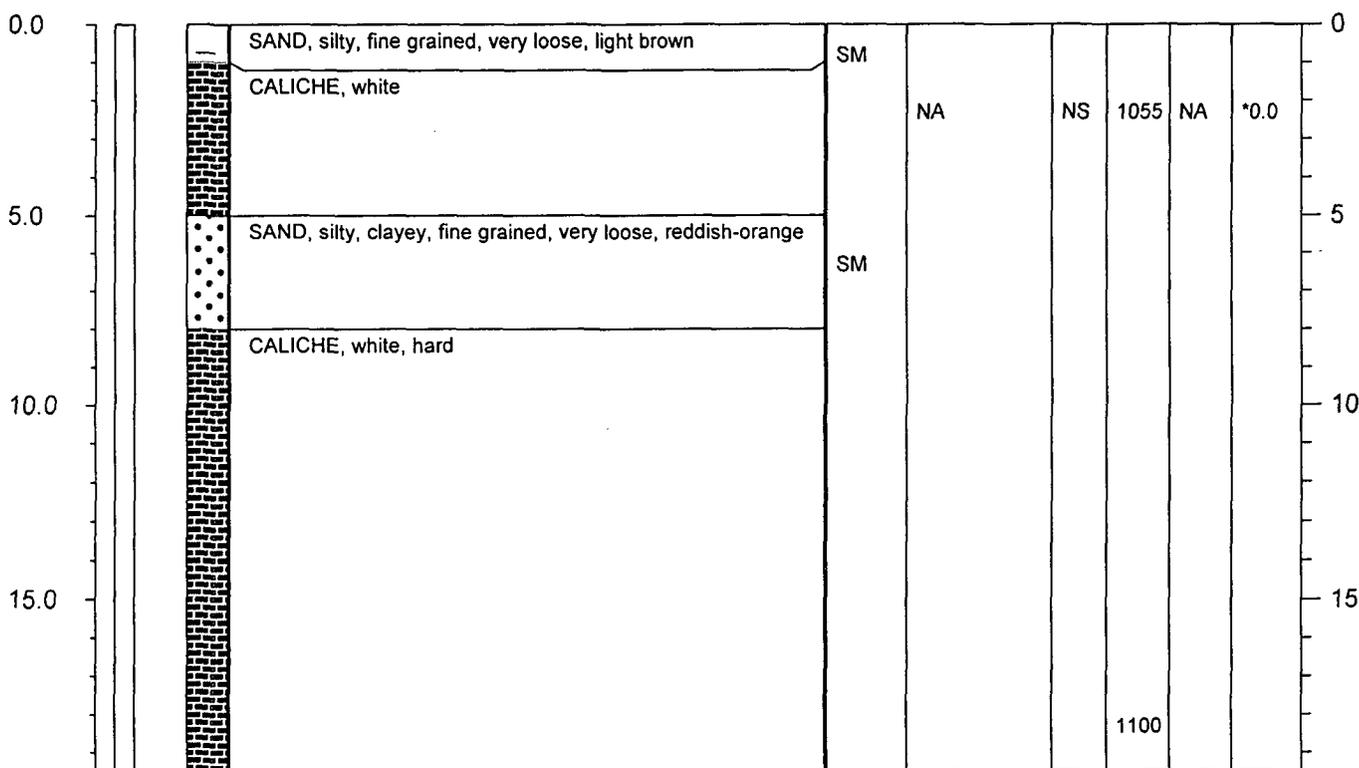


Boring Terminated at 19.5' bgs

* Soil Vapor Monitoring Result

PROJECT NAME: <u>Maxim #1690021/110</u> LOCATION: <u>PCA Junction</u> DRILLED BY: <u>Harrison & Cooper Drilling</u> DATE HOLE DRILLED: <u>3/26/02</u> DATE ABANDONED: <u>3/26/02</u> REMARKS: <u>bgs = below ground surface</u> <u>NS=Not Sampled</u> <u>NA=Not Applicable</u>	SOIL VAPOR BORING NO. <u>SVB-8</u> FIELD LOGGED BY: <u>K.Henderson</u> GROUNDWATER LEVEL (bgs): <u>Not Encountered (ft)</u> DRILL TYPE: <u>Air Rotary</u> <u>Intersol Rand TH-60</u> BORE HOLE DIAMETER: <u>8.25</u> (in)
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DEPTH (bgs) - ft	SAMPLE INTERVAL/ID #	CLASSIFICATION AND DESCRIPTION	USCS SYMBOL	BLOW COUNT	ANALYTICAL	TIME	% RECOVERY	* PID RESULT (ppm)	DEPTH (bgs) - ft
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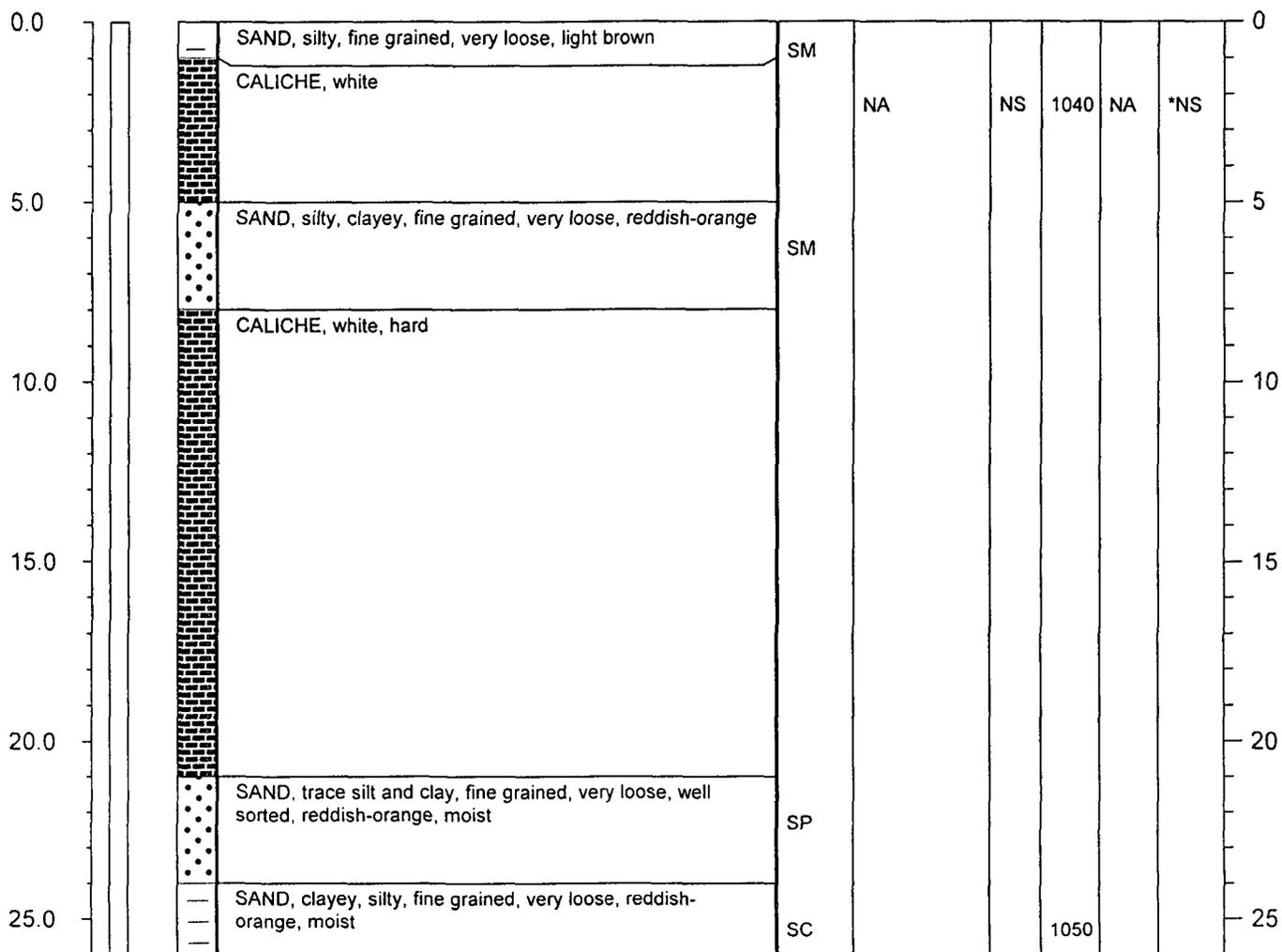


Boring Terminated at 19.5' bgs

* Soil Vapor Monitoring Result

PROJECT NAME: <u>Maxim #1690021/110</u> LOCATION: <u>PCA Junction</u> DRILLED BY: <u>Harrison & Cooper Drilling</u> DATE HOLE DRILLED: <u>3/26/02</u> DATE ABANDONED: <u>3/26/02</u> REMARKS: <u>bgs = below ground surface</u> <u>NS=Not Sampled</u> <u>NA=Not Applicable</u>	SOIL VAPOR BORING NO. <u>SVB-8A</u> FIELD LOGGED BY: <u>K.Henderson</u> GROUNDWATER LEVEL (bgs): <u>25' bgs</u> (ft) DRILL TYPE: <u>Air Rotary</u> <u>Intersol Rand TH-60</u> BORE HOLE DIAMETER: <u>8.25</u> (in)
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DEPTH (bgs) - ft	SAMPLE INTERVAL/ID #	CLASSIFICATION AND DESCRIPTION	USCS SYMBOL	BLOW COUNT	ANALYTICAL	TIME	% RECOVERY	* PID RESULT (ppm)	DEPTH (bgs) - ft
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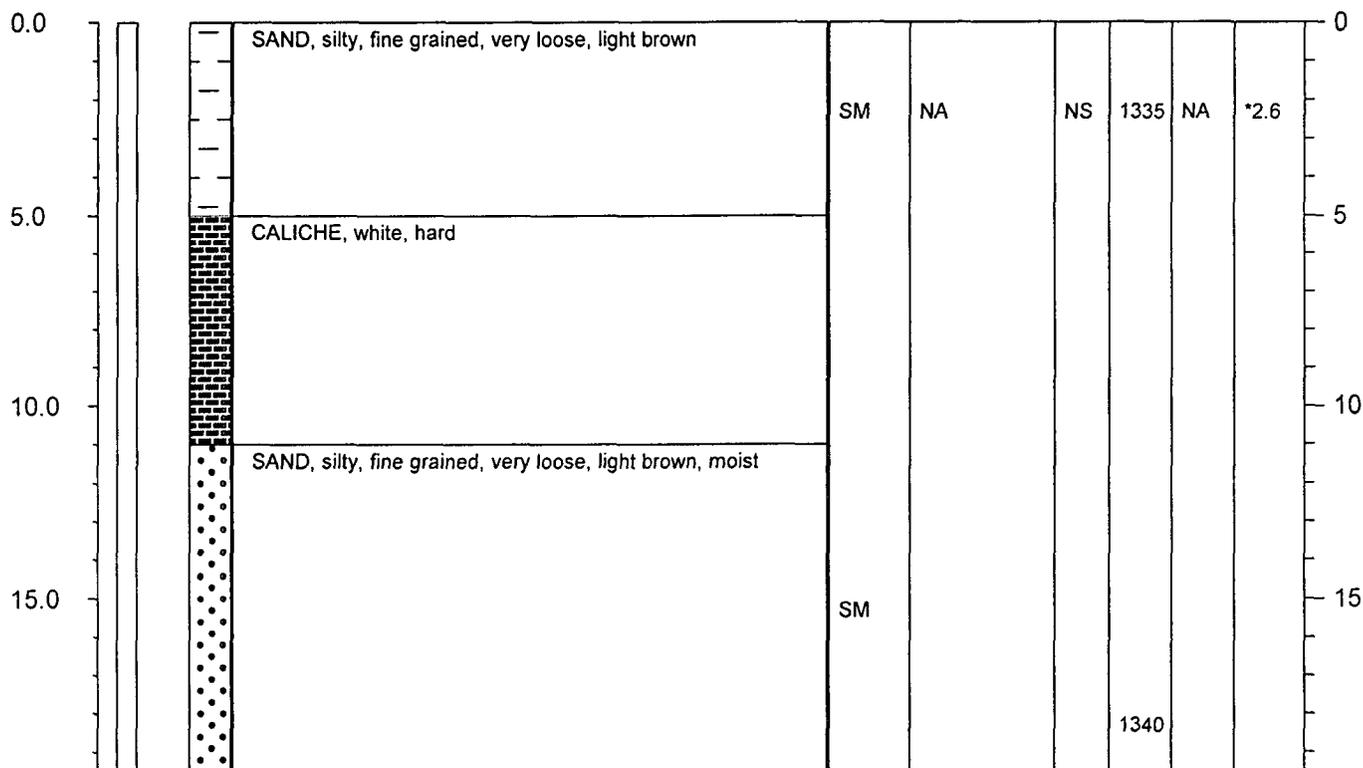


Boring Terminated at 26' bgs

* Soil Vapor Monitoring Result

PROJECT NAME: <u>Maxim #1690021/110</u> LOCATION: <u>PCA Junction</u> DRILLED BY: <u>Harrison & Cooper Drilling</u> DATE HOLE DRILLED: <u>3/26/02</u> DATE ABANDONED: <u>3/26/02</u> REMARKS: <u>bgs = below ground surface</u> <u>NS=Not Sampled</u> <u>NA=Not Applicable</u>	SOIL VAPOR BORING NO. <u>SVB-9</u> FIELD LOGGED BY: <u>K.Henderson</u> GROUNDWATER LEVEL (bgs): <u>Not Encountered</u> (ft) DRILL TYPE: <u>Air Rotary</u> <u>Intersol Rand TH-60</u> BORE HOLE DIAMETER: <u>8.25</u> (in)
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DEPTH (bgs) - ft	SAMPLE INTERVAL/ID #	CLASSIFICATION AND DESCRIPTION	USCS SYMBOL	BLOW COUNT	ANALYTICAL	TIME	% RECOVERY	* PID RESULT (ppm)	DEPTH (bgs) - ft
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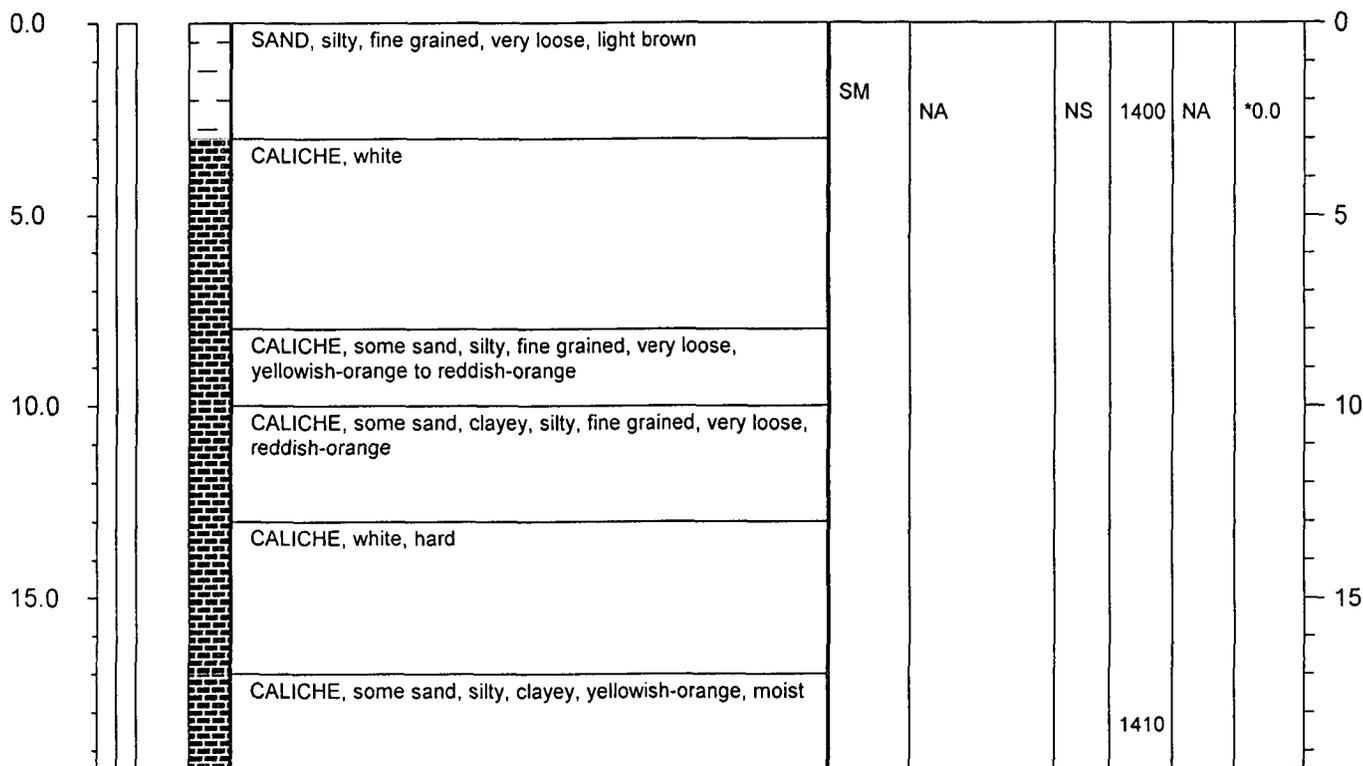


Boring Terminated at 19.5' bgs

* Soil Vapor Monitoring Result

PROJECT NAME: <u>Maxim #1690021/110</u> LOCATION: <u>PCA Junction</u> DRILLED BY: <u>Harrison & Cooper Drilling</u> DATE HOLE DRILLED: <u>3/26/02</u> DATE ABANDONED: <u>3/26/02</u> REMARKS: <u>bgs = below ground surface</u> <u>NS=Not Sampled</u> <u>NA=Not Applicable</u>	SOIL VAPOR BORING NO. <u>SVB-10</u> FIELD LOGGED BY: <u>K.Henderson</u> GROUNDWATER LEVEL (bgs): <u>Not Encountered</u> (ft) DRILL TYPE: <u>Air Rotary</u> <u>Intersol Rand TH-60</u> BORE HOLE DIAMETER: <u>8.25</u> (in)
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DEPTH (bgs) - ft	SAMPLE INTERVAL/ID #	CLASSIFICATION AND DESCRIPTION	USCS SYMBOL	BLOW COUNT	ANALYTICAL	TIME	% RECOVERY	* PID RESULT (ppm)	DEPTH (bgs) - ft
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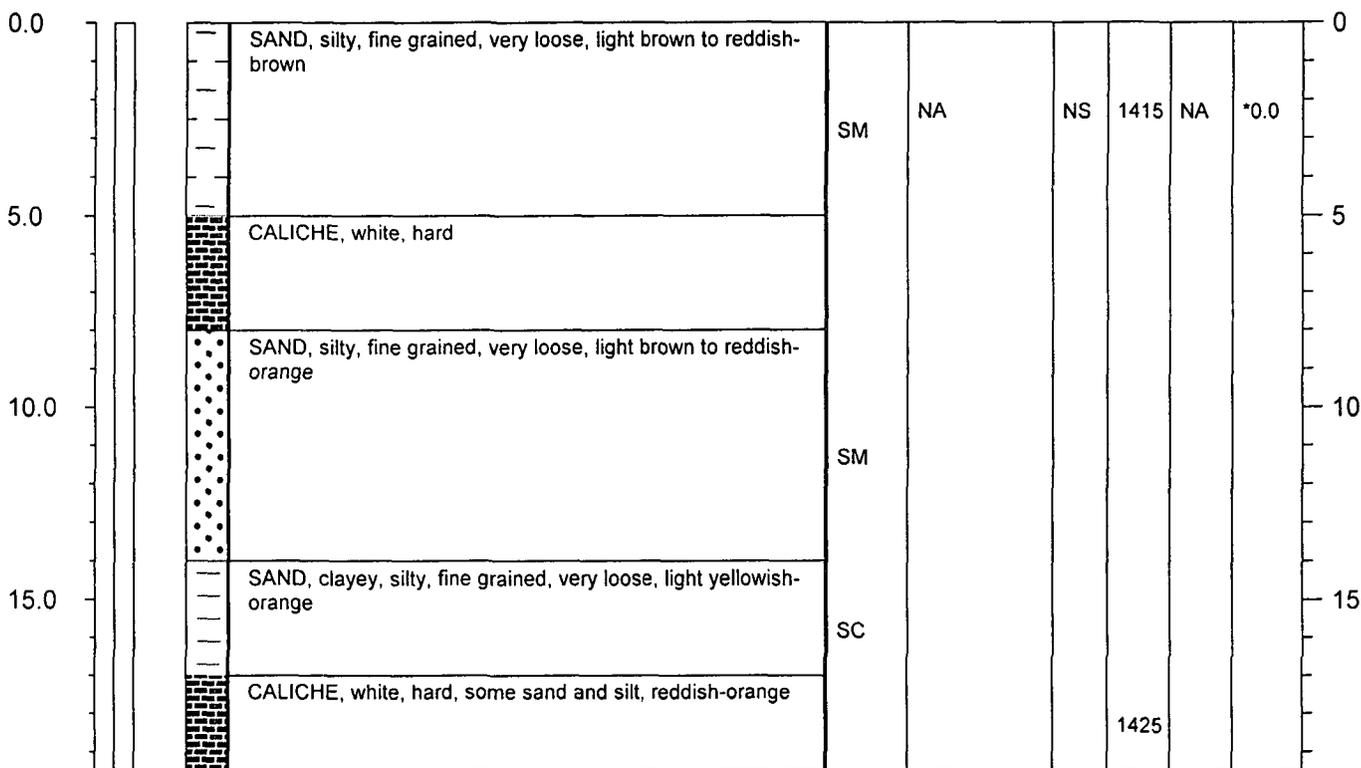


Boring Terminated at 19.5' bgs

* Soil Vapor Monitoring Result

PROJECT NAME: <u>Maxim #1690021/110</u>	SOIL VAPOR BORING NO. <u>SVB-11</u>
LOCATION: <u>PCA Junction</u>	FIELD LOGGED BY: <u>K.Henderson</u>
DRILLED BY: <u>Harrison & Cooper Drilling</u>	GROUNDWATER LEVEL (bgs): <u>Not Encountered (ft)</u>
DATE HOLE DRILLED: <u>3/26/02</u>	DRILL TYPE: <u>Air Rotary</u>
DATE ABANDONED: <u>3/26/02</u>	<u>Intersol Rand TH-60</u>
REMARKS: <u>bgs = below ground surface</u>	BORE HOLE DIAMETER: <u>8.25 (in)</u>
<u>NS=Not Sampled</u>	
<u>NA=Not Applicable</u>	

DEPTH (bgs) - ft	SAMPLE INTERVAL/ID #	CLASSIFICATION AND DESCRIPTION	USCS SYMBOL	BLOW COUNT	ANALYTICAL	TIME	% RECOVERY	* PID RESULT (ppm)	DEPTH (bgs) - ft
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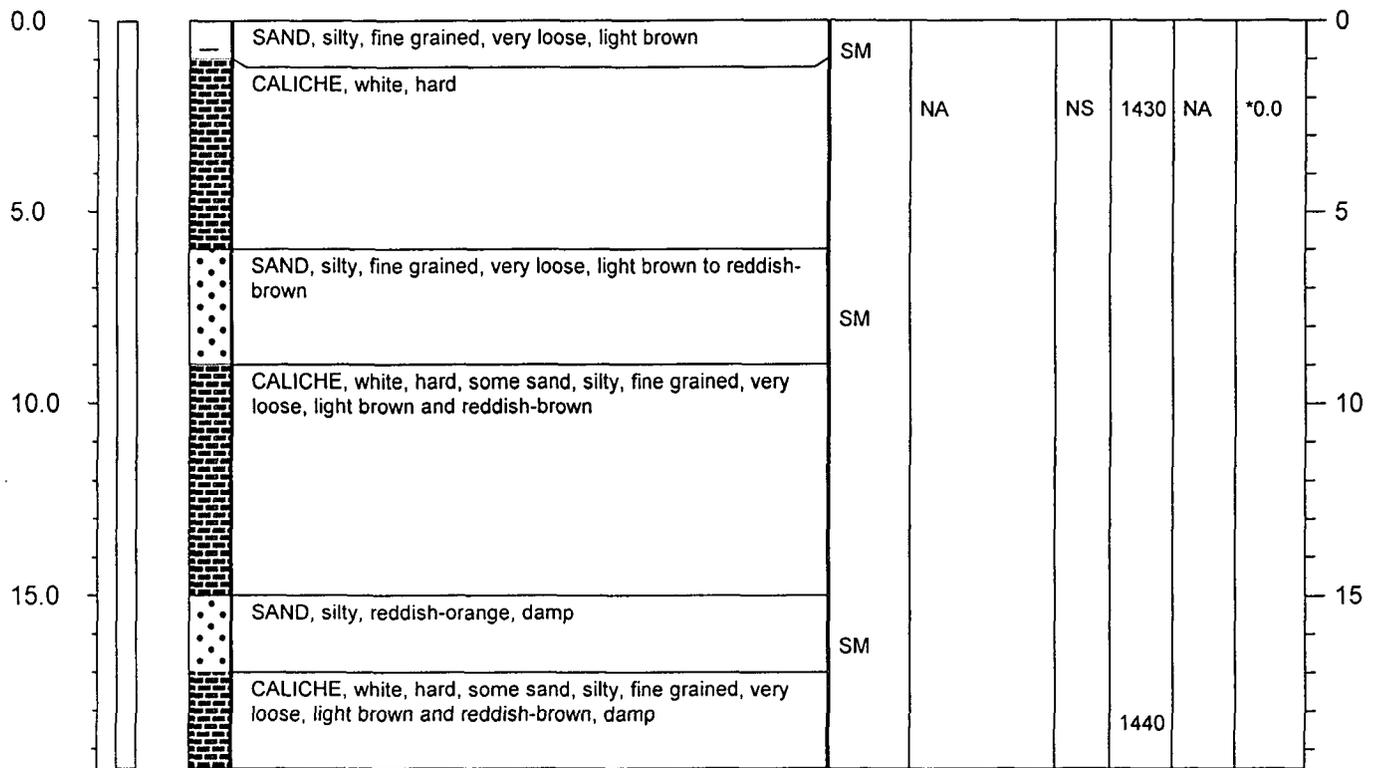


Boring Terminated at 19.5' bgs

* Soil Vapor Monitoring Result

PROJECT NAME: Maxim #1690021/110 LOCATION: PCA Junction DRILLED BY: Harrison & Cooper Drilling DATE HOLE DRILLED: 3/26/02 DATE ABANDONED: 3/26/02 REMARKS: bgs = below ground surface NS=Not Sampled NA=Not Applicable	SOIL VAPOR BORING NO. SVB-12 FIELD LOGGED BY: K.Henderson GROUNDWATER LEVEL (bgs): Not Encountered (ft) DRILL TYPE: Air Rotary Intersol Rand TH-60 BORE HOLE DIAMETER: 8.25 (in)
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DEPTH (bgs) - ft	SAMPLE INTERVAL/ID #	CLASSIFICATION AND DESCRIPTION	USCS SYMBOL	BLOW COUNT	ANALYTICAL	TIME	% RECOVERY	* PID RESULT (ppm)	DEPTH (bgs) - ft
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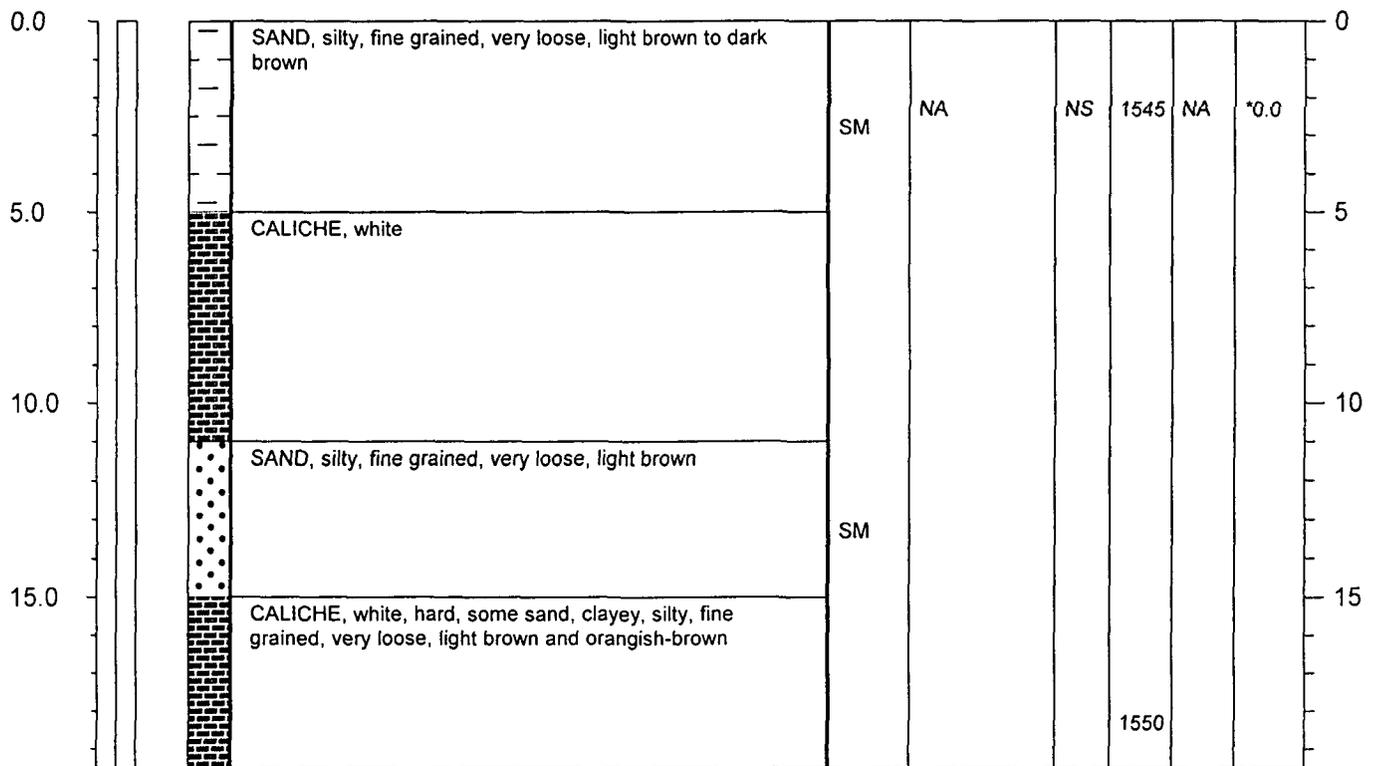


Boring Terminated at 19.5' bgs

* Soil Vapor Monitoring Result

PROJECT NAME: <u>Maxim #1690021/110</u> LOCATION: <u>PCA Junction</u> DRILLED BY: <u>Harrison & Cooper Drilling</u> DATE HOLE DRILLED: <u>3/26/02</u> DATE ABANDONED: <u>3/26/02</u> REMARKS: <u>bgs = below ground surface</u> <u>NS=Not Sampled</u> <u>NA=Not Applicable</u>	SOIL VAPOR BORING NO. <u>SVB-13</u> FIELD LOGGED BY: <u>K.Henderson</u> GROUNDWATER LEVEL (bgs): <u>Not Encountered (ft)</u> DRILL TYPE: <u>Air Rotary</u> <u>Intersol Rand TH-60</u> BORE HOLE DIAMETER: <u>8.25</u> (in)
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DEPTH (bgs) - ft	SAMPLE INTERVAL/ID #	CLASSIFICATION AND DESCRIPTION	USCS SYMBOL	BLOW COUNT	ANALYTICAL	TIME	% RECOVERY	* PID RESULT (ppm)	DEPTH (bgs) - ft
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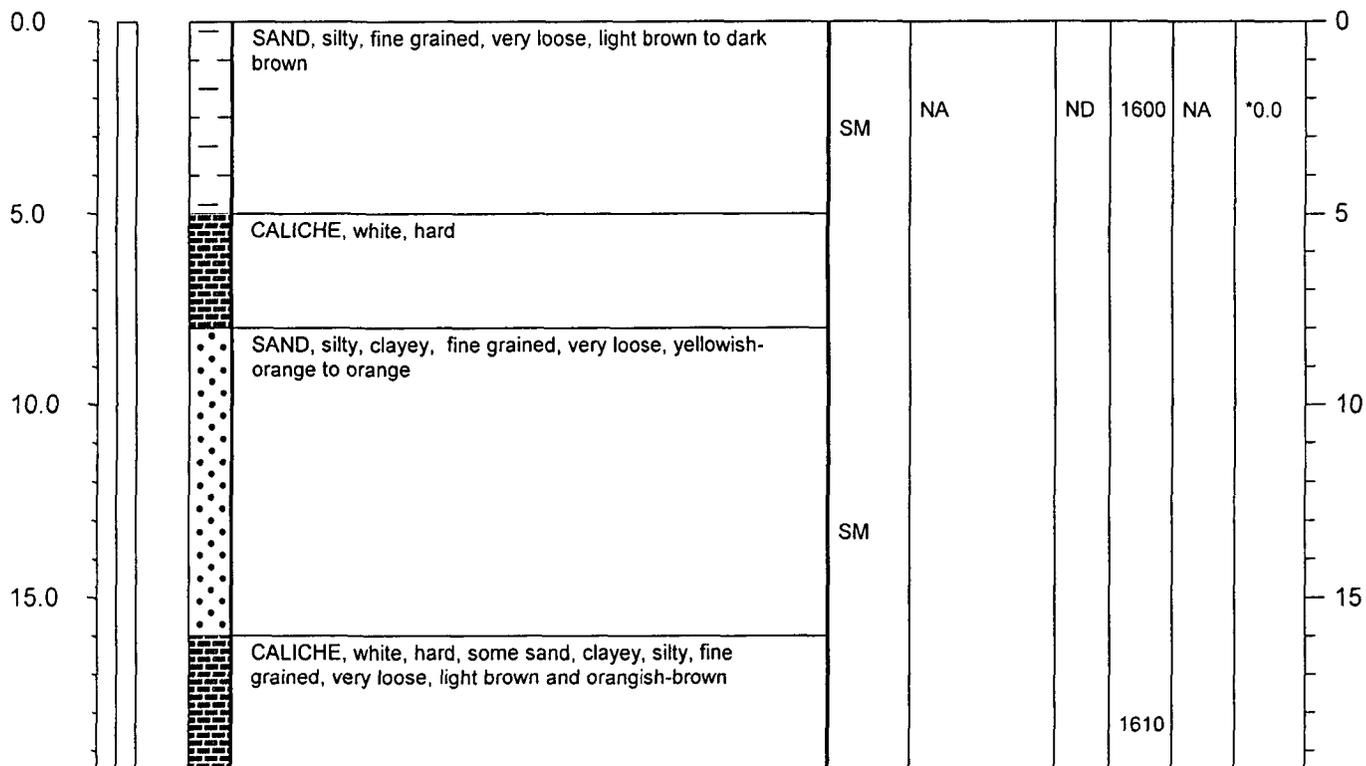


Boring Terminated at 19.5' bgs

* Soil Vapor Monitoring Result

PROJECT NAME: Maxim #1690021/110 LOCATION: <u>PCA Junction</u> DRILLED BY: <u>Harrison & Cooper Drilling</u> DATE HOLE DRILLED: <u>3/26/02</u> DATE ABANDONED: <u>3/26/02</u> REMARKS: <u>bgs = below ground surface</u> <u>NS=Not Sampled</u> <u>NA=Not Applicable</u>	SOIL VAPOR BORING NO. <u>SVB-14</u> FIELD LOGGED BY: <u>K.Henderson</u> GROUNDWATER LEVEL (bgs): <u>Not Encountered</u> (ft) DRILL TYPE: <u>Air Rotary</u> <u>Intersol Rand TH-60</u> BORE HOLE DIAMETER: <u>8.25</u> (in)
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DEPTH (bgs) - ft	SAMPLE INTERVAL/ID #	CLASSIFICATION AND DESCRIPTION	USCS SYMBOL	BLOW COUNT	ANALYTICAL	TIME	% RECOVERY	* PID RESULT (ppm)	DEPTH (bgs) - ft
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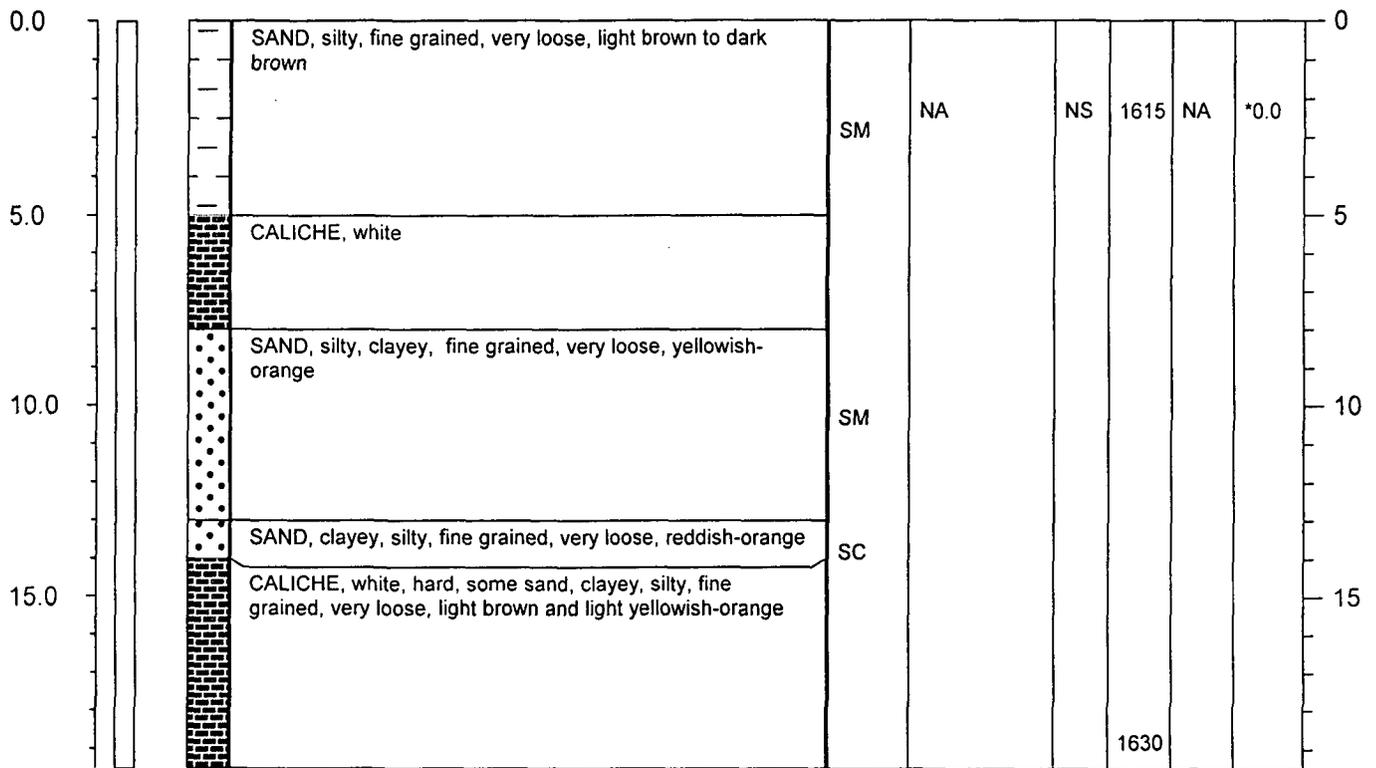


Boring Terminated at 19.5' bgs

* Soil Vapor Monitoring Result

PROJECT NAME: <u>Maxim #1690021/110</u> LOCATION: <u>PCA Junction</u> DRILLED BY: <u>Harrison & Cooper Drilling</u> DATE HOLE DRILLED: <u>3/26/02</u> DATE ABANDONED: <u>3/26/02</u> REMARKS: <u>bgs = below ground surface</u> <u>NS=Not Sampled</u> <u>NA=Not Applicable</u>	SOIL VAPOR BORING NO. <u>SVB-15</u> FIELD LOGGED BY: <u>K.Henderson</u> GROUNDWATER LEVEL (bgs): <u>Not Encountered (ft)</u> DRILL TYPE: <u>Air Rotary</u> <u>Intersol Rand TH-60</u> BORE HOLE DIAMETER: <u>8.25</u> (in)
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DEPTH (bgs) - ft	SAMPLE INTERVAL/ID #	CLASSIFICATION AND DESCRIPTION	USCS SYMBOL	BLOW COUNT	ANALYTICAL	TIME	% RECOVERY	* PID RESULT (ppm)	DEPTH (bgs) - ft
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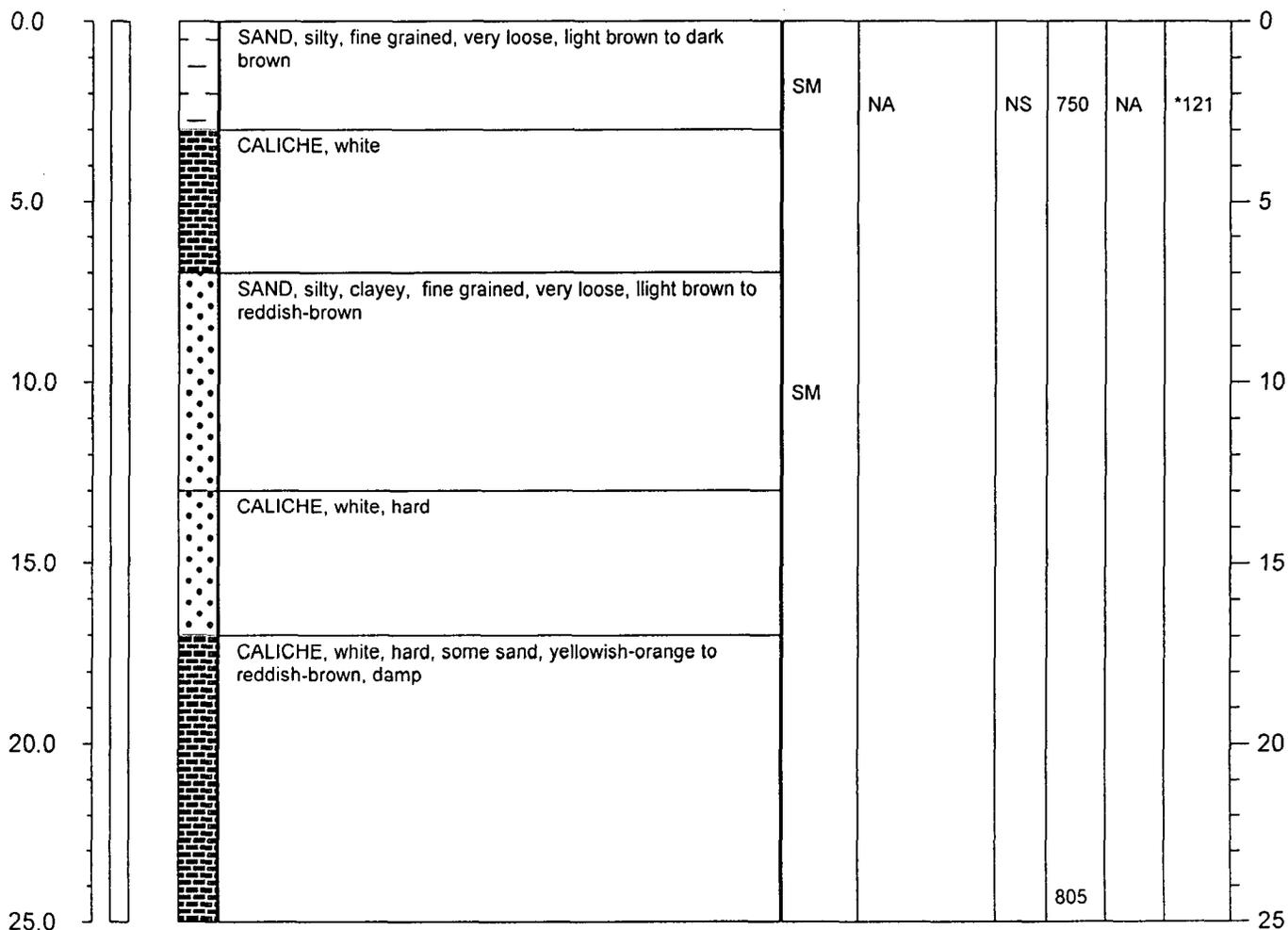


Boring Terminated at 19.5' bgs

* Soil Vapor Monitoring Result

PROJECT NAME: <u>Maxim #1690021/110</u> LOCATION: <u>PCA Junction</u> DRILLED BY: <u>Harrison & Cooper Drilling</u> DATE HOLE DRILLED: <u>3/27/02</u> DATE ABANDONED: <u>3/27/02</u> REMARKS: <u>bgs = below ground surface</u> <u>NS=Not Sampled</u> <u>NA=Not Applicable</u>	SOIL VAPOR BORING NO. <u>SVB-16</u> FIELD LOGGED BY: <u>K.Henderson</u> GROUNDWATER LEVEL (bgs): <u>24' bgs</u> (ft) DRILL TYPE: <u>Air Rotary</u> <u>Intersol Rand TH-60</u> BORE HOLE DIAMETER: <u>8.25</u> (in)
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DEPTH (bgs) - ft	SAMPLE INTERVAL/ID #	CLASSIFICATION AND DESCRIPTION	USCS SYMBOL	BLOW COUNT	ANALYTICAL	TIME	% RECOVERY	* PID RESULT (ppm)	DEPTH (bgs) - ft
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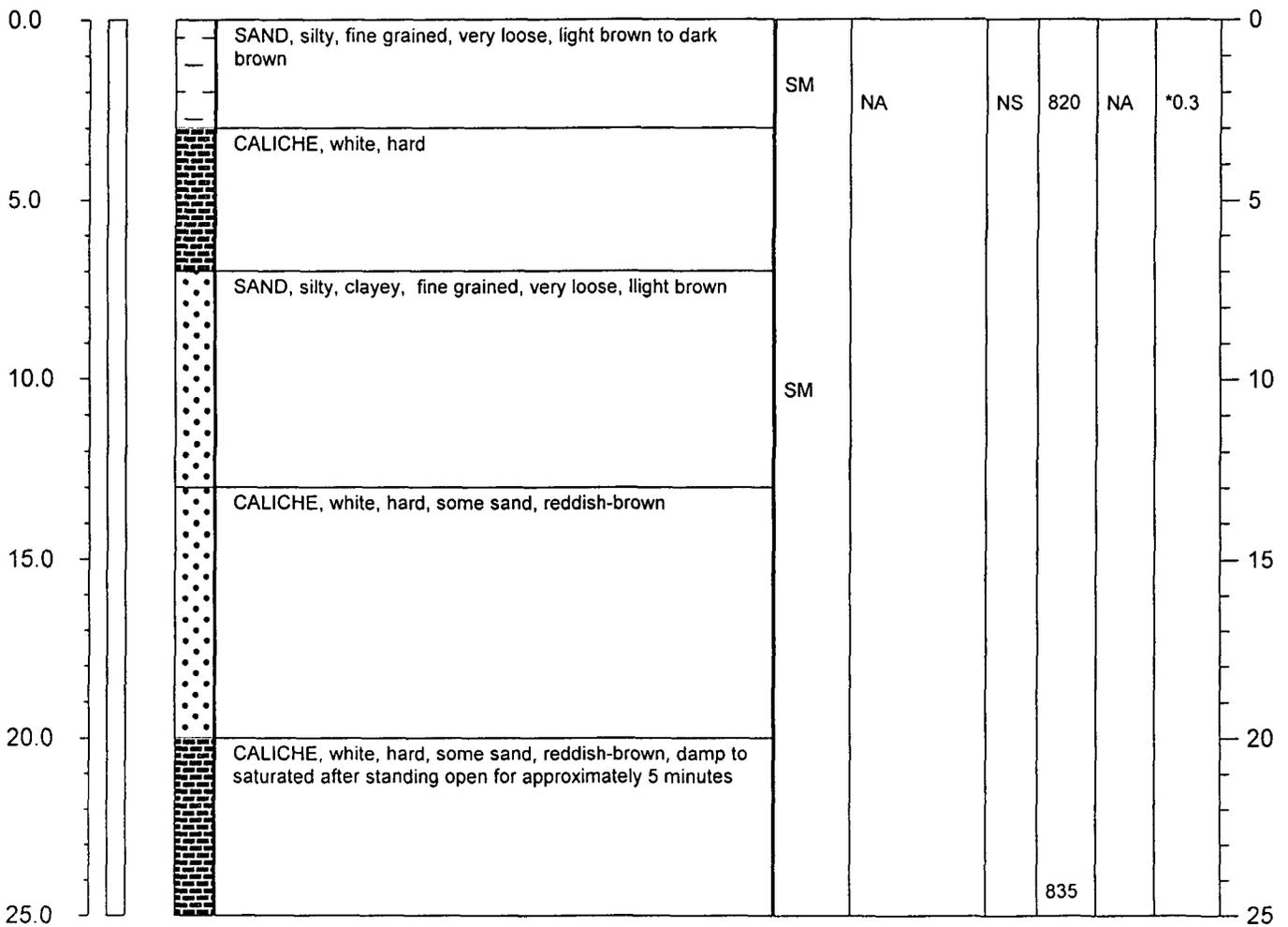


Boring Terminated at 25' bgs

* Soil Vapor Monitoring Result

PROJECT NAME: <u>Maxim #1690021/110</u> LOCATION: <u>PCA Junction</u> DRILLED BY: <u>Harrison & Cooper Drilling</u> DATE HOLE DRILLED: <u>3/27/02</u> DATE ABANDONED: <u>3/27/02</u> REMARKS: <u>bgs = below ground surface</u> <u>NS=Not Sampled</u> <u>NA=Not Applicable</u>	SOIL VAPOR BORING NO. <u>SVB-17</u> FIELD LOGGED BY: <u>K.Henderson</u> GROUNDWATER LEVEL (bgs): <u>23.5' bgs</u> (ft) DRILL TYPE: <u>Air Rotary</u> <u>Intersol Rand TH-60</u> BORE HOLE DIAMETER: <u>8.25</u> (in)
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DEPTH (bgs) - ft	SAMPLE INTERVAL/ID #	CLASSIFICATION AND DESCRIPTION	USCS SYMBOL	BLOW COUNT	ANALYTICAL	TIME	% RECOVERY	* PID RESULT (ppm)	DEPTH (bgs) - ft
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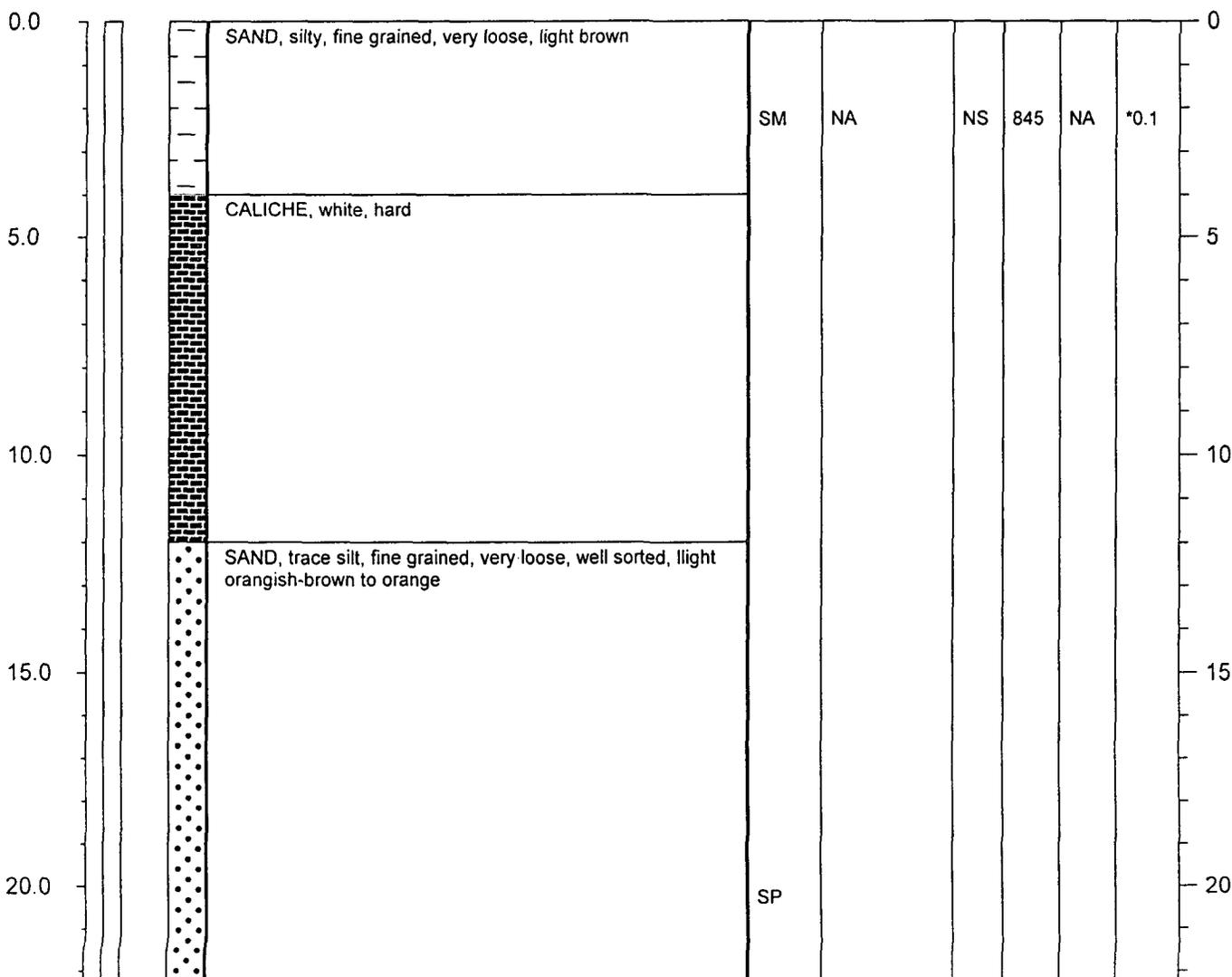


Boring Terminated at 25' bgs

* Soil Vapor Monitoring Result

PROJECT NAME: <u>Maxim #1690021/110</u>	SOIL VAPOR BORING NO. <u>SVB-18</u>
LOCATION: <u>PCA Junction</u>	FIELD LOGGED BY: <u>K.Henderson</u>
DRILLED BY: <u>Harrison & Cooper Drilling</u>	GROUNDWATER LEVEL (bgs): <u>27.7' bgs</u> (ft)
DATE HOLE DRILLED: <u>3/27/02</u>	DRILL TYPE: <u>Air Rotary</u>
DATE ABANDONED: <u>3/27/02</u>	<u>Intersol Rand TH-60</u>
REMARKS: <u>bgs = below ground surface</u>	BORE HOLE DIAMETER: <u>8.25</u> (in)
<u>NS=Not Sampled</u>	
<u>NA=Not Applicable</u>	

DEPTH (bgs) - ft	SAMPLE INTERVAL/ID #	CLASSIFICATION AND DESCRIPTION	USCS SYMBOL	BLOW COUNT	ANALYTICAL	TIME	% RECOVERY	* PID RESULT (ppm)	DEPTH (bgs) - ft
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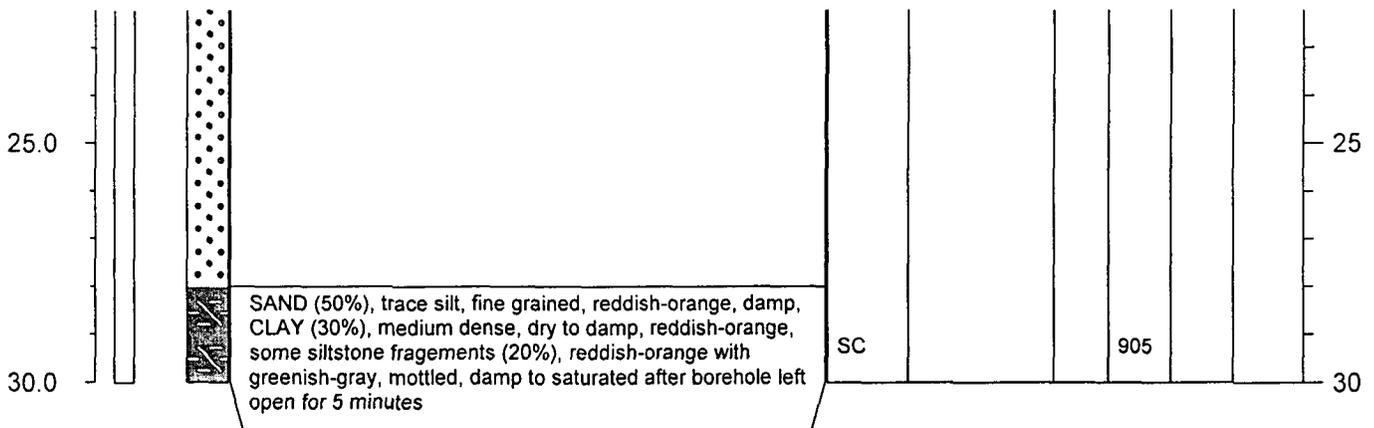


Boring Terminated at 30' bgs

* Soil Vapor Monitoring Result

PROJECT NAME: <u>Maxim #1690021/110</u> LOCATION: <u>PCA Junction</u> DRILLED BY: <u>Harrison & Cooper Drilling</u> DATE HOLE DRILLED: <u>3/27/02</u> DATE ABANDONED: <u>3/27/02</u> REMARKS: <u>bgs = below ground surface</u> <u>NS=Not Sampled</u> <u>NA=Not Applicable</u>	SOIL VAPOR BORING NO. <u>SVB-18</u> FIELD LOGGED BY: <u>K.Henderson</u> GROUNDWATER LEVEL (bgs): <u>27.7' bgs</u> (ft) DRILL TYPE: <u>Air Rotary</u> <u>Intersol Rand TH-60</u> BORE HOLE DIAMETER: <u>8.25</u> (in)
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DEPTH (bgs) - ft	SAMPLE INTERVAL/ID #	CLASSIFICATION AND DESCRIPTION	USCS SYMBOL	BLOW COUNT	ANALYTICAL	TIME	% RECOVERY	* PID RESULT (ppm)	DEPTH (bgs) - ft
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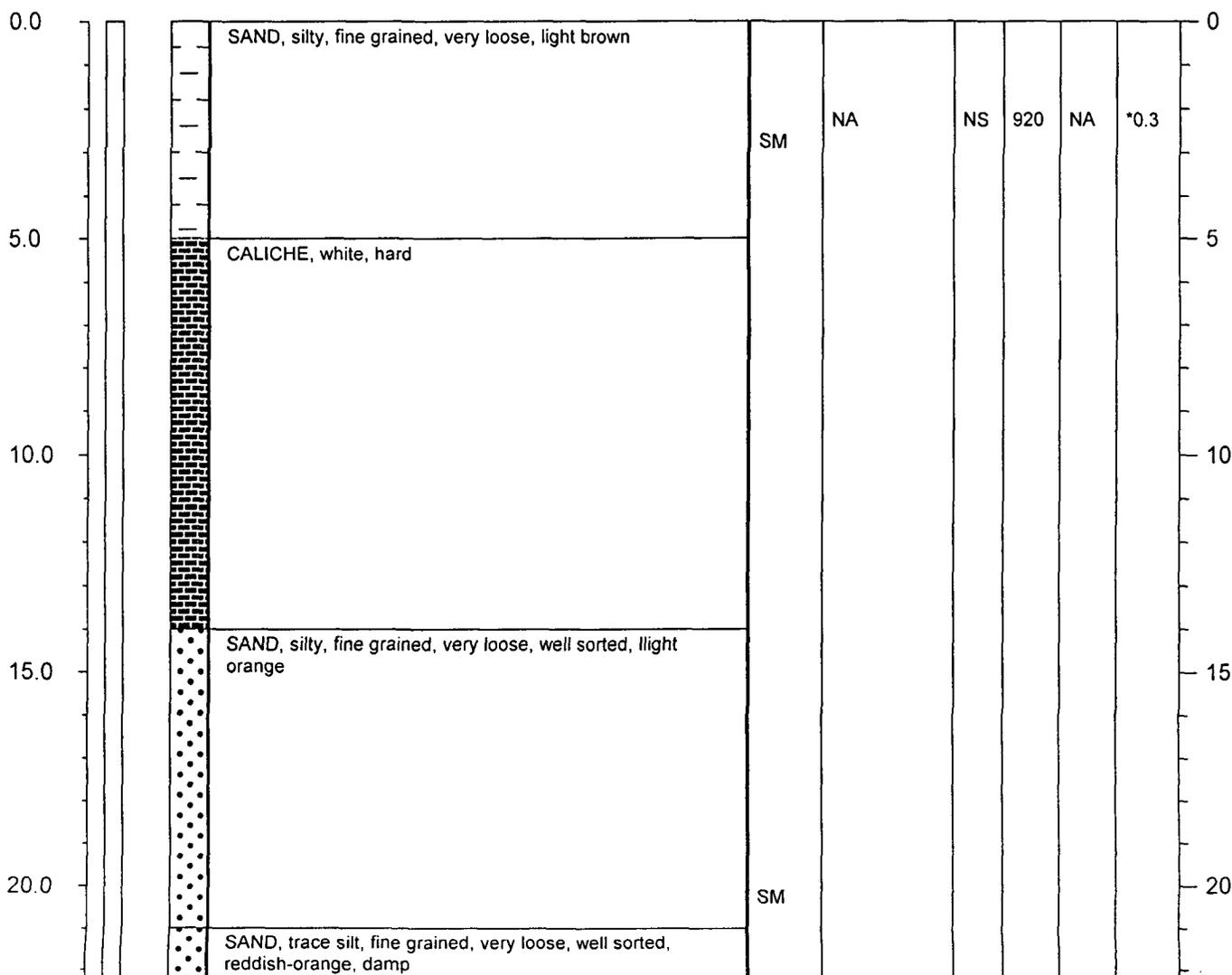


Boring Terminated at 30' bgs

* Soil Vapor Monitoring Result

PROJECT NAME: <u>Maxim #1690021/110</u>	SOIL VAPOR BORING NO. <u>SVB-19</u>
LOCATION: <u>PCA Junction</u>	FIELD LOGGED BY: <u>K.Henderson</u>
DRILLED BY: <u>Harrison & Cooper Drilling</u>	GROUNDWATER LEVEL (bgs): <u>26.35' bgs</u> (ft)
DATE HOLE DRILLED: <u>3/27/02</u>	DRILL TYPE: <u>Air Rotary</u>
DATE ABANDONED: <u>3/27/02</u>	<u>Intersol Rand TH-60</u>
REMARKS: <u>bgs = below ground surface</u>	BORE HOLE DIAMETER: <u>8.25</u> (in)
<u>NS=Not Sampled</u>	
<u>NA=Not Applicable</u>	

DEPTH (bgs) - ft	SAMPLE INTERVAL/ID #	CLASSIFICATION AND DESCRIPTION	USCS SYMBOL	BLOW COUNT	ANALYTICAL	TIME	% RECOVERY	* PID RESULT (ppm)	DEPTH (bgs) - ft
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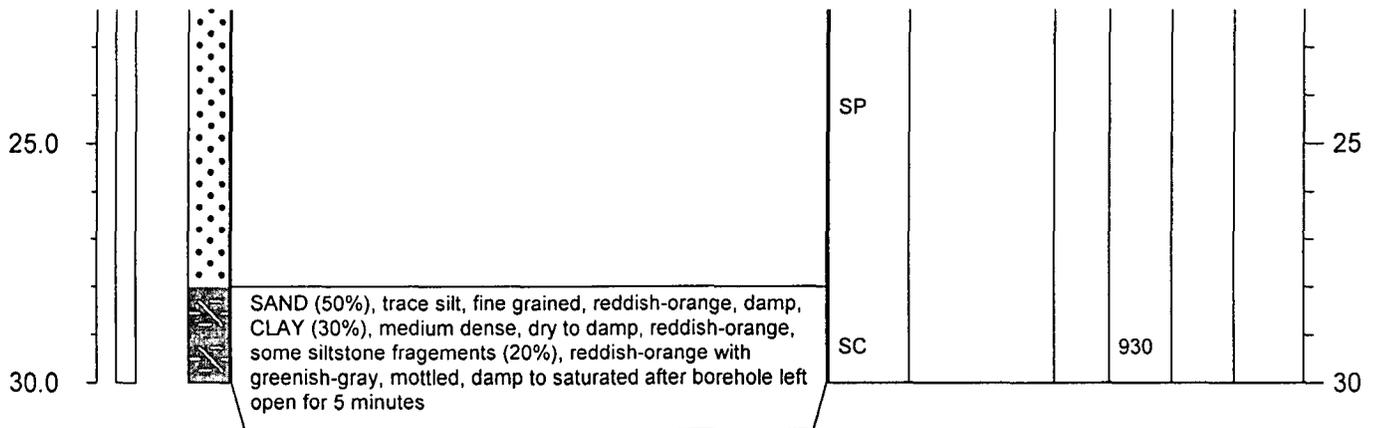


Boring Terminated at 30' bgs

* Soil Vapor Monitoring Result

PROJECT NAME: <u>Maxim #1690021/110</u> LOCATION: <u>PCA Junction</u> DRILLED BY: <u>Harrison & Cooper Drilling</u> DATE HOLE DRILLED: <u>3/27/02</u> DATE ABANDONED: <u>3/27/02</u> REMARKS: <u>bgs = below ground surface</u> <u>NS=Not Sampled</u> <u>NA=Not Applicable</u>	SOIL VAPOR BORING NO. <u>SVB-19</u> FIELD LOGGED BY: <u>K.Henderson</u> GROUNDWATER LEVEL (bgs): <u>26.35' bgs</u> (ft) DRILL TYPE: <u>Air Rotary</u> <u>Intersol Rand TH-60</u> BORE HOLE DIAMETER: <u>8.25</u> (in)
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DEPTH (bgs) - ft	SAMPLE INTERVAL/ID #	CLASSIFICATION AND DESCRIPTION	USCS SYMBOL	BLOW COUNT	ANALYTICAL	TIME	% RECOVERY	* PID RESULT (ppm)	DEPTH (bgs) - ft
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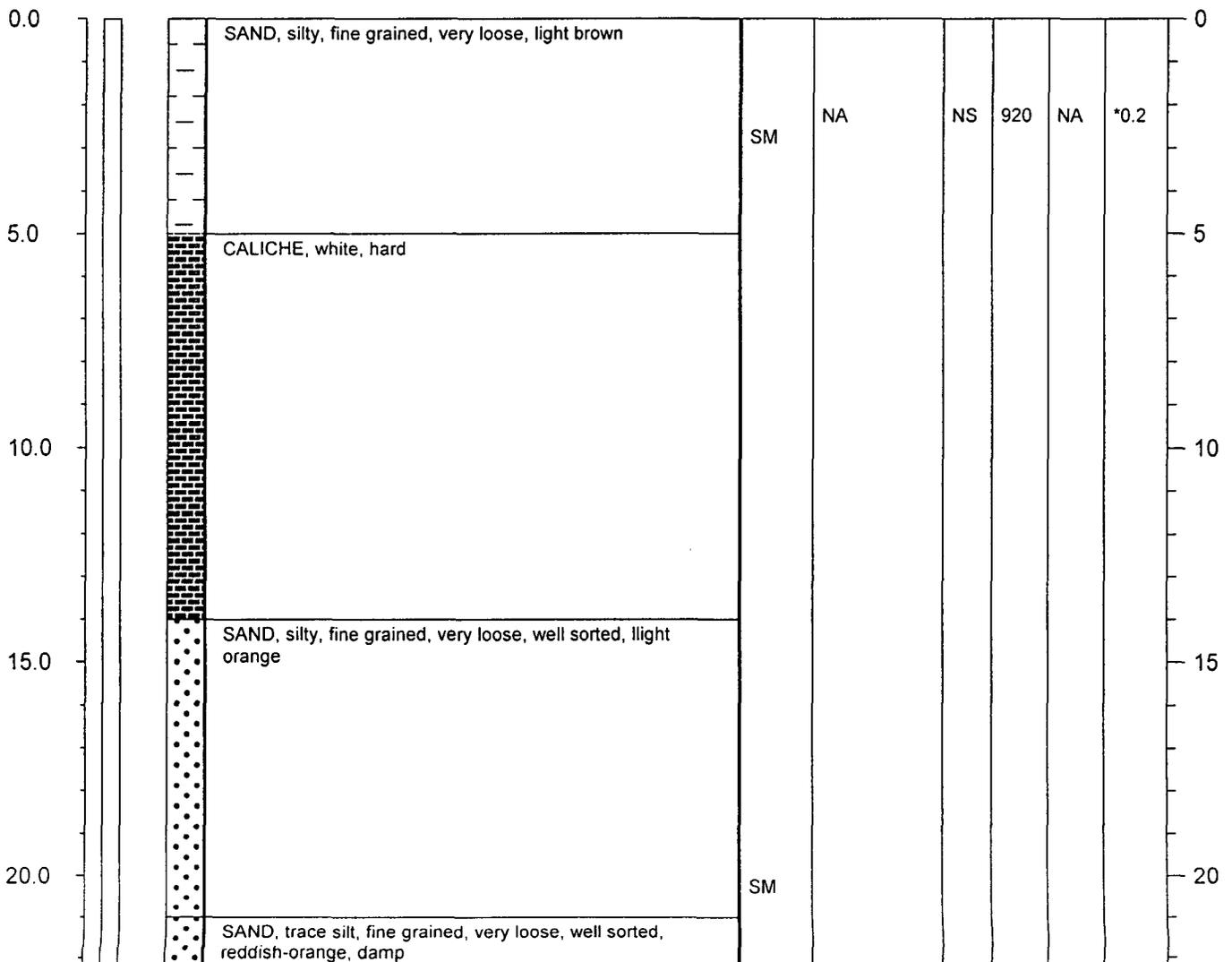


Boring Terminated at 30' bgs

* Soil Vapor Monitoring Result

PROJECT NAME: Maxim #1690021/110 LOCATION: PCA Junction DRILLED BY: Harrison & Cooper Drilling DATE HOLE DRILLED: 3/27/02 DATE ABANDONED: 3/27/02 REMARKS: bgs = below ground surface NS=Not Sampled NA=Not Applicable	SOIL VAPOR BORING NO. SVB-20 FIELD LOGGED BY: K.Henderson GROUNDWATER LEVEL (bgs): 25.4' bgs (ft) DRILL TYPE: Air Rotary Intersol Rand TH-60 BORE HOLE DIAMETER: 8.25 (in)
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DEPTH (bgs) - ft	SAMPLE INTERVAL/ID #	CLASSIFICATION AND DESCRIPTION	USCS SYMBOL	BLOW COUNT	ANALYTICAL	TIME	% RECOVERY	* PID RESULT (ppm)	DEPTH (bgs) - ft
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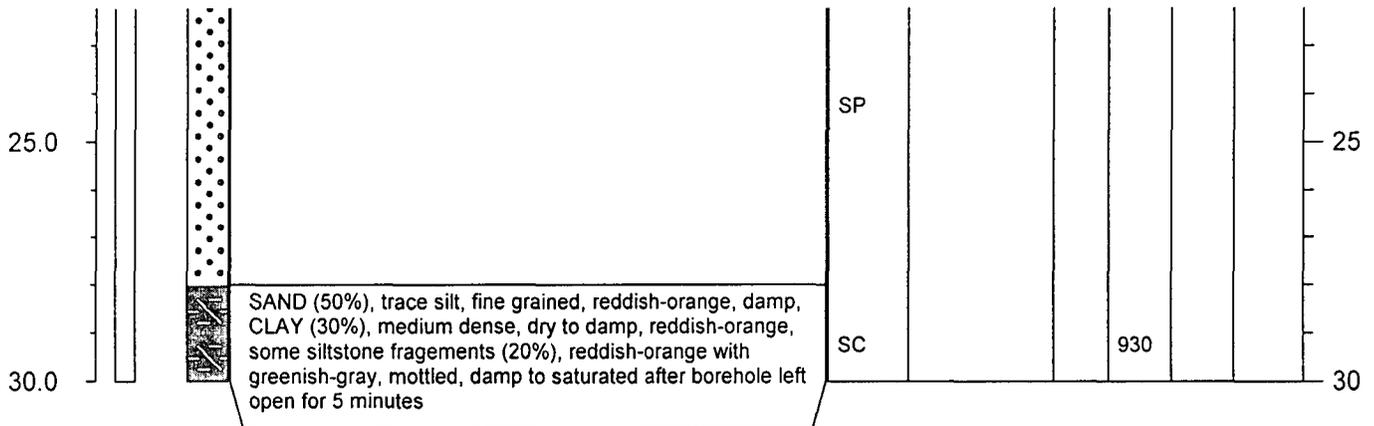


Boring Terminated at 30' bgs

* Soil Vapor Monitoring Result

PROJECT NAME: Maxim #1690021/110 LOCATION: PCA Junction DRILLED BY: Harrison & Cooper Drilling DATE HOLE DRILLED: 3/27/02 DATE ABANDONED: 3/27/02 REMARKS: bgs = below ground surface NS=Not Sampled NA=Not Applicable	SOIL VAPOR BORING NO. SVB-20 FIELD LOGGED BY: K.Henderson GROUNDWATER LEVEL (bgs): 25.4' bgs (ft) DRILL TYPE: Air Rotary Intersol Rand TH-60 BORE HOLE DIAMETER: 8.25 (in)
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DEPTH (bgs) - ft	SAMPLE INTERVAL/ID #	CLASSIFICATION AND DESCRIPTION	USCS SYMBOL	BLOW COUNT	ANALYTICAL	TIME	% RECOVERY	* PID RESULT (ppm)	DEPTH (bgs) - ft
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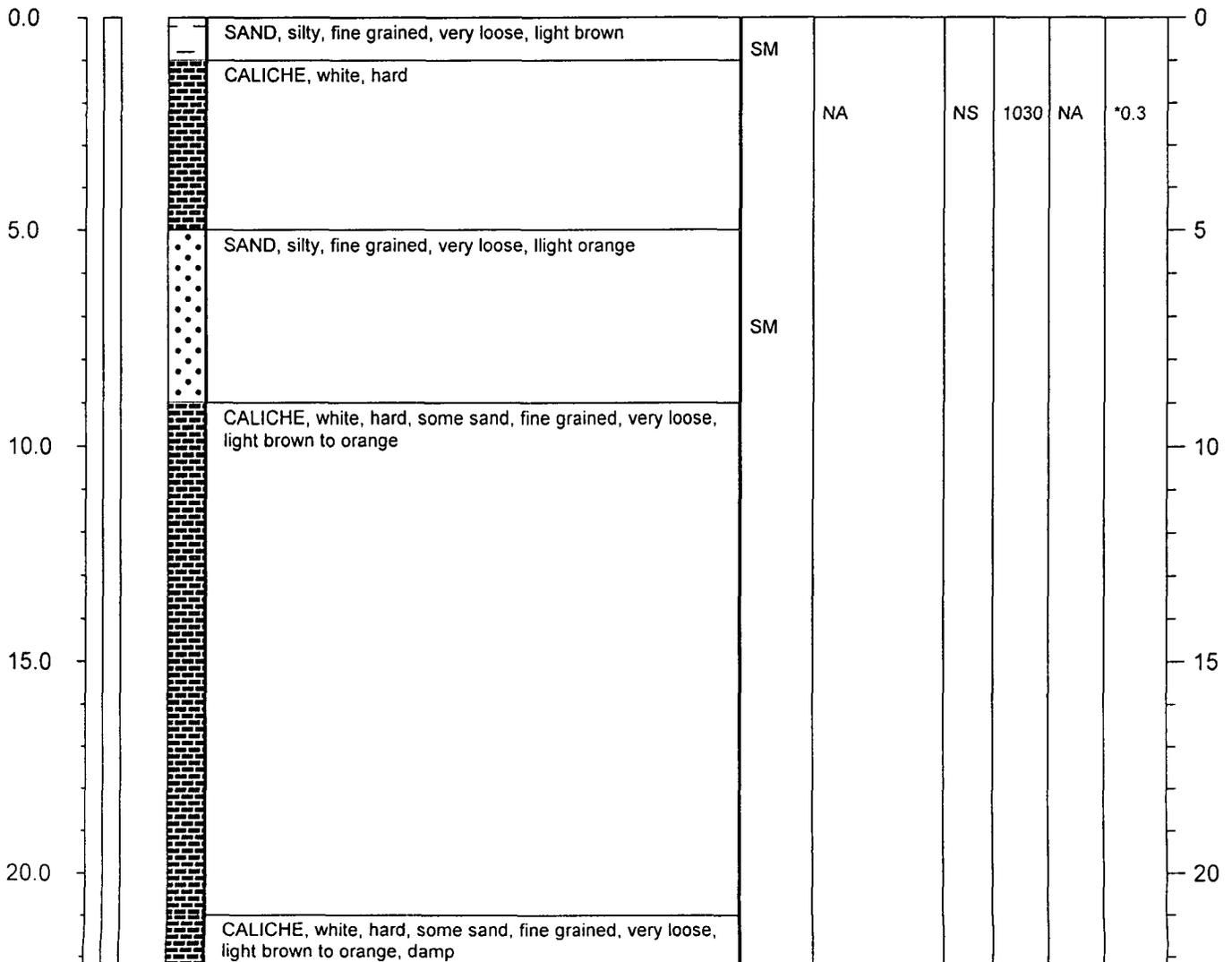


Boring Terminated at 30' bgs

* Soil Vapor Monitoring Result

PROJECT NAME: <u>Maxim #1690021/110</u> LOCATION: <u>PCA Junction</u> DRILLED BY: <u>Harrison & Cooper Drilling</u> DATE HOLE DRILLED: <u>3/27/02</u> DATE ABANDONED: <u>3/27/02</u> REMARKS: <u>bgs = below ground surface</u> <u>ND=Not Detected, NS=No Sample</u> <u>NA=Not Applicable</u>	SOIL VAPOR BORING NO. <u>SVB-21</u> FIELD LOGGED BY: <u>K.Henderson</u> GROUNDWATER LEVEL (bgs): <u>24.0' bgs</u> (ft) DRILL TYPE: <u>Air Rotary</u> <u>Intersol Rand TH-60</u> BORE HOLE DIAMETER: <u>8.25</u> (in)
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DEPTH (bgs) - ft	SAMPLE INTERVAL/ID #	CLASSIFICATION AND DESCRIPTION	USCS SYMBOL	BLOW COUNT	ANALYTICAL	TIME	% RECOVERY	* PID RESULT (ppm)	DEPTH (bgs) - ft
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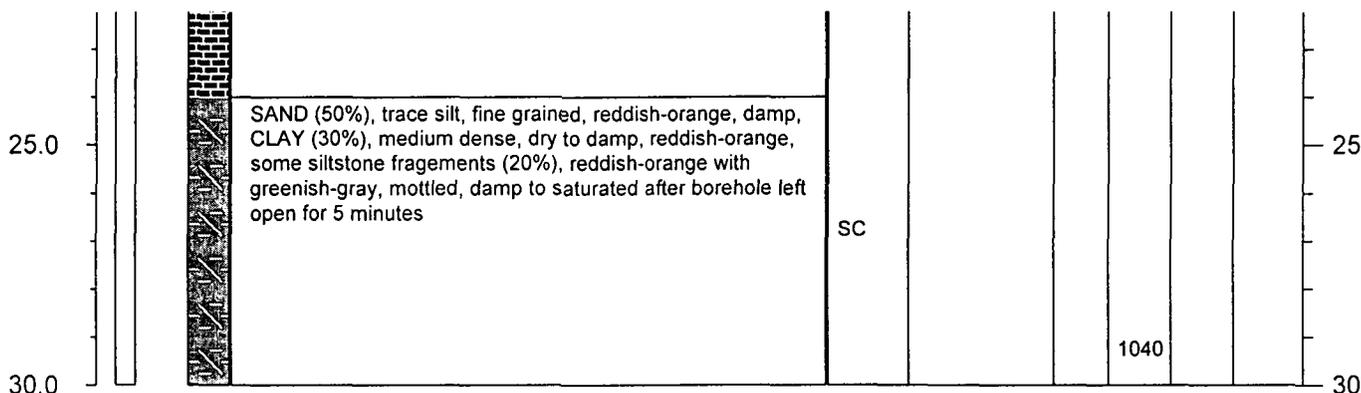


Boring Terminated at 30' bgs

* Soil Vapor Monitoring Result

PROJECT NAME: <u>Maxim #1690021/110</u> LOCATION: <u>PCA Junction</u> DRILLED BY: <u>Harrison & Cooper Drilling</u> DATE HOLE DRILLED: <u>3/27/02</u> DATE ABANDONED: <u>3/27/02</u> REMARKS: <u>bgs = below ground surface</u> <u>ND=Not Detected, NS=No Sample</u> <u>NA=Not Applicable</u>	SOIL VAPOR BORING NO. <u>SVB-21</u> FIELD LOGGED BY: <u>K.Henderson</u> GROUNDWATER LEVEL (bgs): <u>24.0' bgs</u> (ft) DRILL TYPE: <u>Air Rotary</u> <u>Intersol Rand TH-60</u> BORE HOLE DIAMETER: <u>8.25</u> (in)
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DEPTH (bgs) - ft	SAMPLE INTERVAL/ID #	CLASSIFICATION AND DESCRIPTION	USCS SYMBOL	BLOW COUNT	ANALYTICAL	TIME	% RECOVERY	* PID RESULT (ppm)	DEPTH (bgs) - ft
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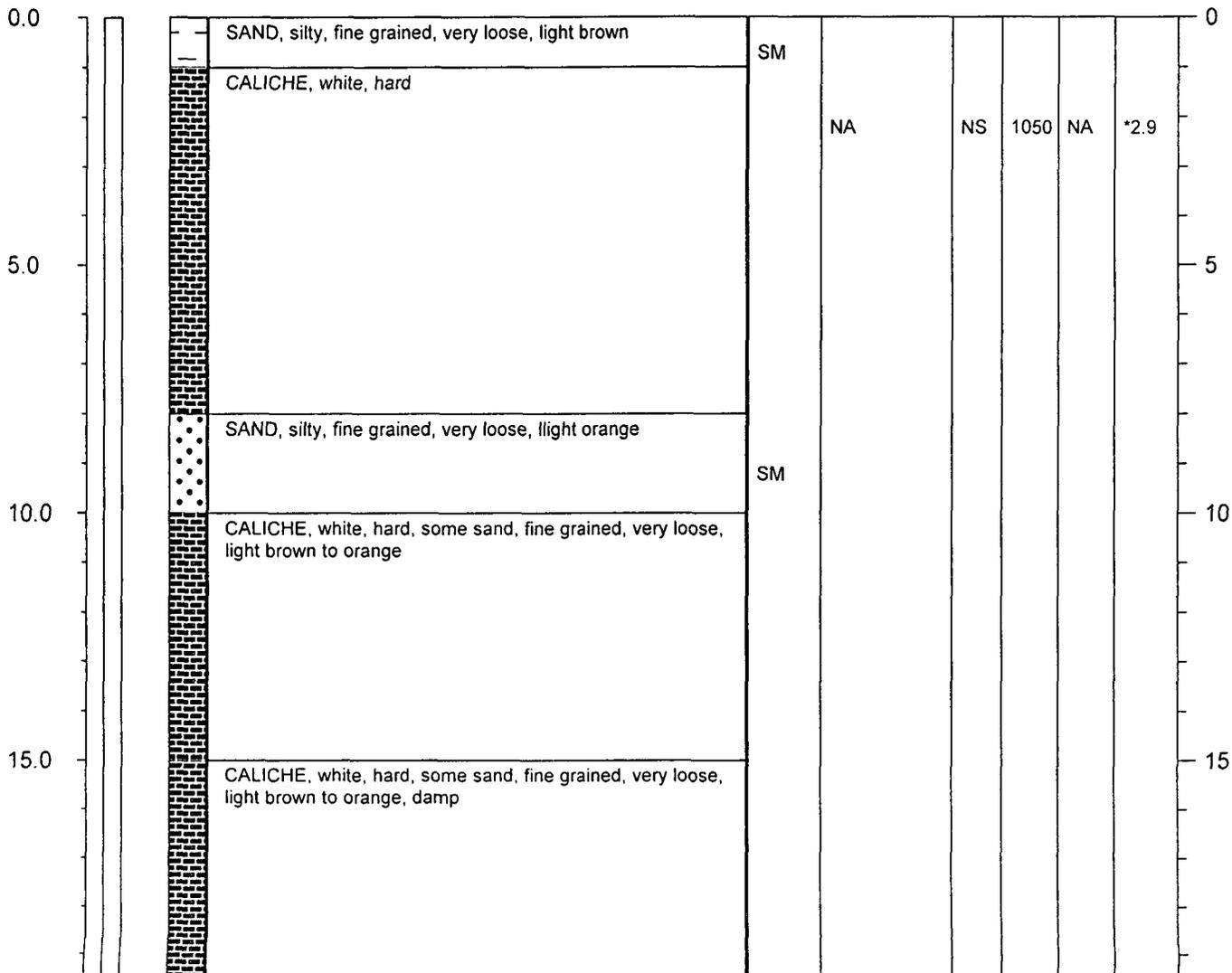


Boring Terminated at 30' bgs

* Soil Vapor Monitoring Result

PROJECT NAME: <u>Maxim #1690021/110</u> LOCATION: <u>PCA Junction</u> DRILLED BY: <u>Harrison & Cooper Drilling</u> DATE HOLE DRILLED: <u>3/27/02</u> DATE ABANDONED: <u>3/27/02</u> REMARKS: <u>bgs = below ground surface</u> <u>NS=Not Sampled</u> <u>NA=Not Applicable</u>	SOIL VAPOR BORING NO. <u>SVB-22</u> FIELD LOGGED BY: <u>K.Henderson</u> GROUNDWATER LEVEL (bgs): <u>24.2' bgs</u> (ft) DRILL TYPE: <u>Air Rotary</u> <u>Intersol Rand TH-60</u> BORE HOLE DIAMETER: <u>8.25</u> (in)
---	---

DEPTH (bgs) - ft	SAMPLE INTERVAL/ID #	CLASSIFICATION AND DESCRIPTION	USCS SYMBOL	BLOW COUNT	ANALYTICAL	TIME	% RECOVERY	* PID RESULT (ppm)	DEPTH (bgs) - ft
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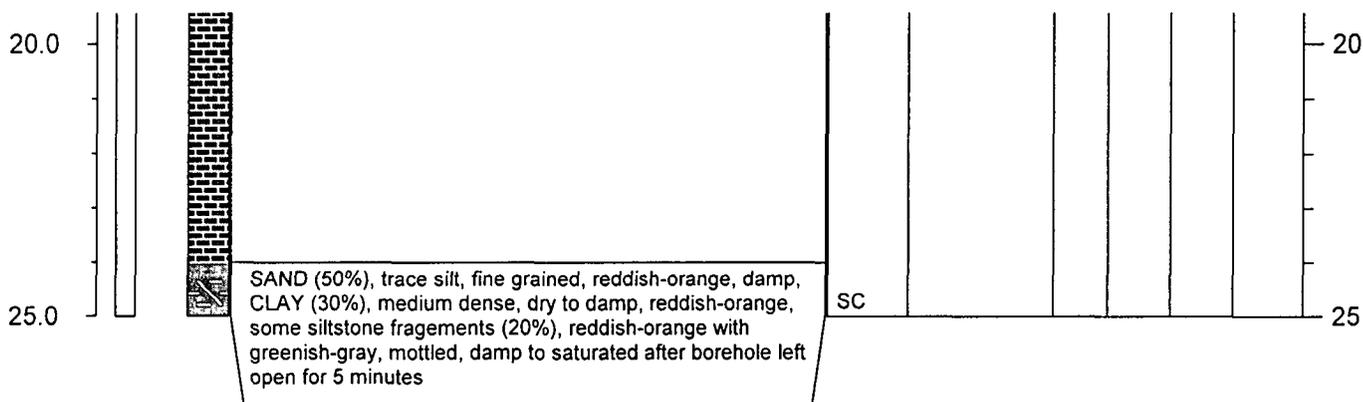


Boring Terminated at 25' bgs

* Soil Vapor Monitoring Result

PROJECT NAME: Maxim #1690021/110 LOCATION: PCA Junction DRILLED BY: Harrison & Cooper Drilling DATE HOLE DRILLED: 3/27/02 DATE ABANDONED: 3/27/02 REMARKS: bgs = below ground surface NS=Not Sampled NA=Not Applicable	SOIL VAPOR BORING NO. SVB-22 FIELD LOGGED BY: K.Henderson GROUNDWATER LEVEL (bgs): 24.2' bgs (ft) DRILL TYPE: Air Rotary Intersol Rand TH-60 BORE HOLE DIAMETER: 8.25 (in)
---	---

DEPTH (bgs) - ft	SAMPLE INTERVAL/ID #	CLASSIFICATION AND DESCRIPTION	USCS SYMBOL	BLOW COUNT	ANALYTICAL	TIME	% RECOVERY	* PID RESULT (ppm)	DEPTH (bgs) - ft
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Boring Terminated at 25' bgs

* Soil Vapor Monitoring Result

APPENDIX B

**Groundwater
Analytical Report**

**Certificate of
Analysis**

STL Austin
14046 Summit Drive
Austin, Texas 78728

Tel: 512 244 0855
Fax: 512 244 0160
www.stl-inc.com



STL Austin

ANALYTICAL REPORT

PROJECT NO. CARLSBAD, NM

NG0005 20 Mi NE Carlsbad, NM

Lot #: I2D110168

Rob Sengebush

**Maxim Technologies, Inc.
10601 Lomas NE Ste 106
Albuquerque, NM 87112**

SEVERN TRENT LABORATORIES, INC.

A handwritten signature in cursive script that reads "Carla M. Butler".

Carla M. Butler
Project Manager

April 25, 2002

American Council of Independent Laboratories
International Association of Environmental Testing Laboratories
STL Austin is a part of Severn Trent Laboratories, Inc.

CASE NARRATIVE

I2D110168

Samples received in good condition within acceptable cooler temperature.

No anomalies occurred during analysis.

EXECUTIVE SUMMARY - Detection Highlights

I2D110168

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
MW-2 04/09/02 13:45 001				
Calcium	1200	25.0	mg/L	SW846 6010B
Magnesium	111	5.0	mg/L	SW846 6010B
Sodium	104	5.0	mg/L	SW846 6010B
Lead	0.014	0.0030	mg/L	SW846 6010B
Selenium	0.040	0.0050	mg/L	SW846 6010B
Total Dissolved Solids	3940	40.0	mg/L	MCAWW 160.1
Chloride	475	100	mg/L	MCAWW 300.0A
Sulfate	1720	100	mg/L	MCAWW 300.0A
Nitrate	36.9	5.0	mg/L	MCAWW 300.0A
Total Alkalinity	74.7	5.0	mg/L	MCAWW 310.1
MW-3 04/09/02 14:30 002				
Calcium	846	25.0	mg/L	SW846 6010B
Magnesium	11.5	5.0	mg/L	SW846 6010B
Sodium	12.3	5.0	mg/L	SW846 6010B
Lead	0.0090	0.0030	mg/L	SW846 6010B
Selenium	0.010	0.0050	mg/L	SW846 6010B
Total Dissolved Solids	3160	40.0	mg/L	MCAWW 160.1
Chloride	255	100	mg/L	MCAWW 300.0A
Sulfate	1320	100	mg/L	MCAWW 300.0A
Nitrate	9.5	0.50	mg/L	MCAWW 300.0A
Total Alkalinity	91.5	5.0	mg/L	MCAWW 310.1
MW-4 04/09/02 15:05 003				
Calcium	716	25.0	mg/L	SW846 6010B
Magnesium	40.7	5.0	mg/L	SW846 6010B
Sodium	10.5	5.0	mg/L	SW846 6010B
Lead	0.0034	0.0030	mg/L	SW846 6010B
Selenium	0.017	0.0050	mg/L	SW846 6010B
Total Dissolved Solids	2930	40.0	mg/L	MCAWW 160.1
Chloride	211	100	mg/L	MCAWW 300.0A
Sulfate	1360	100	mg/L	MCAWW 300.0A
Nitrate	7.7	0.50	mg/L	MCAWW 300.0A
Total Alkalinity	107	5.0	mg/L	MCAWW 310.1

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

I2D110168

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
MW-5 04/09/02 16:10 004				
Calcium	943	25.0	mg/L	SW846 6010B
Magnesium	301	5.0	mg/L	SW846 6010B
Sodium	291	5.0	mg/L	SW846 6010B
Lead	0.0096	0.0030	mg/L	SW846 6010B
Selenium	0.029	0.0050	mg/L	SW846 6010B
Total Dissolved Solids	5780	40.0	mg/L	MCAWW 160.1
Chloride	1410	500	mg/L	MCAWW 300.0A
Sulfate	1710	100	mg/L	MCAWW 300.0A
Nitrate	14.0	5.0	mg/L	MCAWW 300.0A
Total Alkalinity	68.1	5.0	mg/L	MCAWW 310.1
MW-6 04/09/02 16:45 005				
Calcium	652	25.0	mg/L	SW846 6010B
Magnesium	43.4	5.0	mg/L	SW846 6010B
Sodium	10.5	5.0	mg/L	SW846 6010B
Lead	0.011	0.0030	mg/L	SW846 6010B
Total Dissolved Solids	2660	40.0	mg/L	MCAWW 160.1
Chloride	120	100	mg/L	MCAWW 300.0A
Sulfate	1370	100	mg/L	MCAWW 300.0A
Nitrate	5.2	0.50	mg/L	MCAWW 300.0A
Total Alkalinity	81.6	5.0	mg/L	MCAWW 310.1

ANALYTICAL METHODS SUMMARY

I2D110168

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Alkalinity	MCAWW 310.1
Chloride	MCAWW 300.0A
Filterable Residue (TDS)	MCAWW 160.1
Mercury in Liquid Waste (Manual Cold-Vapor)	SW846 7470A
Nitrate as N	MCAWW 300.0A
Sulfate	MCAWW 300.0A
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Volatile Organics by GC/MS	SW846 8260B

References:

- MCAWW "Methods for Chemical Analysis of Water and Wastes",
EPA-600/4-79-020, March 1983 and subsequent revisions.
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical
Methods", Third Edition, November 1986 and its updates.

METHOD / ANALYST SUMMARY

I2D110168

<u>ANALYTICAL METHOD</u>	<u>ANALYST</u>	<u>ANALYST ID</u>
MCAWW 160.1	David A. Tocher	800002
MCAWW 300.0A	Cynthia A. Anderson	034090
MCAWW 310.1	David A. Tocher	800002
SW846 6010B	Daniel J. New	005670
SW846 7470A	Dung (Minh) Le	038027
SW846 8260B	Ron Guillett	400174

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes",
EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical
Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

I2D110168

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
EXP7N	001	MW-2	04/09/02	13:45
EXP77	002	MW-3	04/09/02	14:30
EXP79	003	MW-4	04/09/02	15:05
EXP8C	004	MW-5	04/09/02	16:10
EXP8D	005	MW-6	04/09/02	16:45
EXP8G	006	DUPLICATE	04/09/02	14:00
EXP8W	007	TRIP BLANK	04/09/02	18:00

NOTE (S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

QC DATA ASSOCIATION SUMMARY

I2D110168

Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	WATER	MCAWW 160.1		2102385	2102232
	WATER	MCAWW 300.0A		2102184	2102071
	WATER	MCAWW 300.0A		2102188	2102070
	WATER	MCAWW 300.0A		2102186	2102069
	WATER	SW846 7470A		2101377	2101177
	WATER	SW846 8260B		2112515	2112233
	WATER	SW846 6010B		2105291	2105117
	WATER	MCAWW 310.1		2108409	2108204
002	WATER	MCAWW 160.1		2102385	2102232
	WATER	MCAWW 300.0A		2102184	2102071
	WATER	MCAWW 300.0A		2102188	2102070
	WATER	MCAWW 300.0A		2102186	2102069
	WATER	SW846 7470A		2101377	2101177
	WATER	SW846 8260B		2112515	2112233
	WATER	SW846 6010B		2105291	2105117
	WATER	MCAWW 310.1		2108409	2108204
003	WATER	MCAWW 160.1		2102385	2102232
	WATER	MCAWW 300.0A		2102184	2102071
	WATER	MCAWW 300.0A		2102188	2102070
	WATER	MCAWW 300.0A		2102186	2102069
	WATER	SW846 7470A		2101377	2101177
	WATER	SW846 8260B		2112515	2112233
	WATER	SW846 6010B		2105291	2105117
	WATER	MCAWW 310.1		2108409	2108204
004	WATER	MCAWW 160.1		2102385	2102232
	WATER	MCAWW 300.0A		2102184	2102071
	WATER	MCAWW 300.0A		2102188	2102070
	WATER	MCAWW 300.0A		2102186	2102069
	WATER	SW846 7470A		2101377	2101177
	WATER	SW846 8260B		2112515	2112233
	WATER	SW846 6010B		2105291	2105117
	WATER	MCAWW 310.1		2108409	2108204
005	WATER	MCAWW 160.1		2102385	2102232
	WATER	MCAWW 300.0A		2102184	2102071
	WATER	MCAWW 300.0A		2102188	2102070
	WATER	MCAWW 300.0A		2102186	2102069
	WATER	SW846 7470A		2101377	2101177
	WATER	SW846 8260B		2112515	2112233
	WATER	SW846 6010B		2105291	2105117

(Continued on next page)

QC DATA ASSOCIATION SUMMARY

I2D110168

Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
005	WATER	MCAWW 310.1		2108409	2108204
006	WATER	SW846 8260B		2112515	2112233
007	WATER	SW846 8260B		2112515	2112233

CONOCO INC.

Client Sample ID: MW-2

GC/MS Volatiles

Lot-Sample #....: I2D110168-001 Work Order #....: EXP7N1AC Matrix.....: WATER
 Date Sampled....: 04/09/02 13:45 Date Received...: 04/11/02
 Prep Date.....: 04/19/02 Analysis Date...: 04/19/02
 Prep Batch #....: 2112515
 Dilution Factor: 1 Method.....: SW846 8260B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Benzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Xylenes (total)	ND	2.0	ug/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene	119	(75 - 133)
Toluene-d8	113	(86 - 126)
Dibromofluoromethane	102	(76 - 130)
1,2-Dichloroethane-d4	99	(53 - 154)

CONOCO INC.

Client Sample ID: MW-2

TOTAL Metals

Lot-Sample #...: I2D110168-001

Matrix.....: WATER

Date Sampled...: 04/09/02 13:45 Date Received...: 04/11/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2101377						
Mercury	ND	0.00020	mg/L	SW846 7470A	04/11-04/12/02	EXP7N1AR
		Dilution Factor: 1				
Prep Batch #...: 2105291						
Silver	ND	0.0050	mg/L	SW846 6010B	04/15-04/18/02	EXP7N1AL
		Dilution Factor: 1				
Arsenic	ND	0.010	mg/L	SW846 6010B	04/15-04/18/02	EXP7N1AD
		Dilution Factor: 1				
Barium	ND	0.20	mg/L	SW846 6010B	04/15-04/18/02	EXP7N1AE
		Dilution Factor: 1				
Calcium	1200	25.0	mg/L	SW846 6010B	04/15-04/19/02	EXP7N1AG
		Dilution Factor: 5				
Cadmium	ND	0.0020	mg/L	SW846 6010B	04/15-04/18/02	EXP7N1AF
		Dilution Factor: 1				
Chromium	ND	0.0050	mg/L	SW846 6010B	04/15-04/18/02	EXP7N1AN
		Dilution Factor: 1				
Magnesium	111	5.0	mg/L	SW846 6010B	04/15-04/18/02	EXP7N1AJ
		Dilution Factor: 1				
Sodium	104	5.0	mg/L	SW846 6010B	04/15-04/18/02	EXP7N1AM
		Dilution Factor: 1				
Lead	0.014	0.0030	mg/L	SW846 6010B	04/15-04/18/02	EXP7N1AH
		Dilution Factor: 1				
Selenium	0.040	0.0050	mg/L	SW846 6010B	04/15-04/18/02	EXP7N1AK
		Dilution Factor: 1				

CONOCO INC.

Client Sample ID: MW-2

General Chemistry

Lot-Sample #...: I2D110168-001 Work Order #...: EXP7N Matrix.....: WATER
 Date Sampled...: 04/09/02 13:45 Date Received...: 04/11/02

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	475	100	mg/L	MCAWW 300.0A	04/11/02	2102184
		Dilution Factor: 100				
Nitrate	36.9	5.0	mg/L	MCAWW 300.0A	04/11/02	2102186
		Dilution Factor: 10				
Sulfate	1720	100	mg/L	MCAWW 300.0A	04/11/02	2102188
		Dilution Factor: 100				
Total Alkalinity	74.7	5.0	mg/L	MCAWW 310.1	04/18/02	2108409
		Dilution Factor: 1				
Total Dissolved Solids	3940	40.0	mg/L	MCAWW 160.1	04/12-04/13/02	2102385
		Dilution Factor: 1				

CONOCO INC.

Client Sample ID: MW-3

GC/MS Volatiles

Lot-Sample #...: I2D110168-002 Work Order #...: EXP771AC Matrix.....: WATER
 Date Sampled...: 04/09/02 14:30 Date Received...: 04/11/02
 Prep Date.....: 04/19/02 Analysis Date...: 04/19/02
 Prep Batch #...: 2112515
 Dilution Factor: 1 Method.....: SW846 8260B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Benzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Xylenes (total)	ND	2.0	ug/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene	122	(75 - 133)
Toluene-d8	111	(86 - 126)
Dibromofluoromethane	99	(76 - 130)
1,2-Dichloroethane-d4	101	(53 - 154)

CONOCO INC.

Client Sample ID: MW-3

TOTAL Metals

Lot-Sample #....: I2D110168-002

Matrix.....: WATER

Date Sampled....: 04/09/02 14:30 Date Received...: 04/11/02

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Prep Batch #....: 2101377						
Mercury	ND	0.00020	mg/L	SW846 7470A	04/11-04/12/02	EXP771AR
		Dilution Factor: 1				
Prep Batch #....: 2105291						
Silver	ND	0.0050	mg/L	SW846 6010B	04/15-04/18/02	EXP771AL
		Dilution Factor: 1				
Arsenic	ND	0.010	mg/L	SW846 6010B	04/15-04/18/02	EXP771AD
		Dilution Factor: 1				
Barium	ND	0.20	mg/L	SW846 6010B	04/15-04/18/02	EXP771AE
		Dilution Factor: 1				
Calcium	846	25.0	mg/L	SW846 6010B	04/15-04/19/02	EXP771AG
		Dilution Factor: 5				
Cadmium	ND	0.0020	mg/L	SW846 6010B	04/15-04/18/02	EXP771AF
		Dilution Factor: 1				
Chromium	ND	0.0050	mg/L	SW846 6010B	04/15-04/18/02	EXP771AN
		Dilution Factor: 1				
Magnesium	11.5	5.0	mg/L	SW846 6010B	04/15-04/18/02	EXP771AJ
		Dilution Factor: 1				
Sodium	12.3	5.0	mg/L	SW846 6010B	04/15-04/18/02	EXP771AM
		Dilution Factor: 1				
Lead	0.0090	0.0030	mg/L	SW846 6010B	04/15-04/18/02	EXP771AH
		Dilution Factor: 1				
Selenium	0.010	0.0050	mg/L	SW846 6010B	04/15-04/18/02	EXP771AK
		Dilution Factor: 1				

CONOCO INC.

Client Sample ID: MW-3

General Chemistry

Lot-Sample #...: I2D110168-002 Work Order #...: EXP77
 Date Sampled...: 04/09/02 14:30 Date Received...: 04/11/02

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	255	100	mg/L	MCAWW 300.0A	04/11/02	2102184
			Dilution Factor: 100			
Nitrate	9.5	0.50	mg/L	MCAWW 300.0A	04/11/02	2102186
			Dilution Factor: 1			
Sulfate	1320	100	mg/L	MCAWW 300.0A	04/11/02	2102188
			Dilution Factor: 100			
Total Alkalinity	91.5	5.0	mg/L	MCAWW 310.1	04/18/02	2108409
			Dilution Factor: 1			
Total Dissolved Solids	3160	40.0	mg/L	MCAWW 160.1	04/12-04/13/02	2102385
			Dilution Factor: 1			

CONOCO INC.

Client Sample ID: MW-4

GC/MS Volatiles

Lot-Sample #....: I2D110168-003 Work Order #....: EXP791AC Matrix.....: WATER
 Date Sampled....: 04/09/02 15:05 Date Received...: 04/11/02
 Prep Date.....: 04/19/02 Analysis Date...: 04/19/02
 Prep Batch #....: 2112515
 Dilution Factor: 1 Method.....: SW846 8260B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Benzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Xylenes (total)	ND	2.0	ug/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene	120	(75 - 133)
Toluene-d8	117	(86 - 126)
Dibromofluoromethane	102	(76 - 130)
1,2-Dichloroethane-d4	98	(53 - 154)

CONOCO INC.

Client Sample ID: MW-4

TOTAL Metals

Lot-Sample #...: I2D110168-003

Matrix.....: WATER

Date Sampled...: 04/09/02 15:05 Date Received...: 04/11/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2101377						
Mercury	ND	0.00020	mg/L	SW846 7470A	04/11-04/12/02	EXP791AR
		Dilution Factor: 1				
Prep Batch #...: 2105291						
Silver	ND	0.0050	mg/L	SW846 6010B	04/15-04/18/02	EXP791AL
		Dilution Factor: 1				
Arsenic	ND	0.010	mg/L	SW846 6010B	04/15-04/18/02	EXP791AD
		Dilution Factor: 1				
Barium	ND	0.20	mg/L	SW846 6010B	04/15-04/18/02	EXP791AE
		Dilution Factor: 1				
Calcium	716	25.0	mg/L	SW846 6010B	04/15-04/19/02	EXP791AG
		Dilution Factor: 5				
Cadmium	ND	0.0020	mg/L	SW846 6010B	04/15-04/18/02	EXP791AF
		Dilution Factor: 1				
Chromium	ND	0.0050	mg/L	SW846 6010B	04/15-04/18/02	EXP791AN
		Dilution Factor: 1				
Magnesium	40.7	5.0	mg/L	SW846 6010B	04/15-04/18/02	EXP791AJ
		Dilution Factor: 1				
Sodium	10.5	5.0	mg/L	SW846 6010B	04/15-04/18/02	EXP791AM
		Dilution Factor: 1				
Lead	0.0034	0.0030	mg/L	SW846 6010B	04/15-04/18/02	EXP791AH
		Dilution Factor: 1				
Selenium	0.017	0.0050	mg/L	SW846 6010B	04/15-04/18/02	EXP791AK
		Dilution Factor: 1				

CONOCO INC.

Client Sample ID: MW-4

General Chemistry

Lot-Sample #...: I2D110168-003 Work Order #...: EXP79 Matrix.....: WATER
 Date Sampled...: 04/09/02 15:05 Date Received...: 04/11/02

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	211	100	mg/L	MCAWW 300.0A	04/11/02	2102184
		Dilution Factor: 100				
Nitrate	7.7	0.50	mg/L	MCAWW 300.0A	04/11/02	2102186
		Dilution Factor: 1				
Sulfate	1360	100	mg/L	MCAWW 300.0A	04/11/02	2102188
		Dilution Factor: 100				
Total Alkalinity	107	5.0	mg/L	MCAWW 310.1	04/18/02	2108409
		Dilution Factor: 1				
Total Dissolved Solids	2930	40.0	mg/L	MCAWW 160.1	04/12-04/13/02	2102385
		Dilution Factor: 1				

CONOCO INC.

Client Sample ID: MW-5

GC/MS Volatiles

Lot-Sample #....: I2D110168-004 Work Order #....: EXP8C1AC Matrix.....: WATER
 Date Sampled....: 04/09/02 16:10 Date Received...: 04/11/02
 Prep Date.....: 04/19/02 Analysis Date...: 04/19/02
 Prep Batch #....: 2112515
 Dilution Factor: 1 Method.....: SW846 8260B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Benzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Xylenes (total)	ND	2.0	ug/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene	122	(75 - 133)
Toluene-d8	111	(86 - 126)
Dibromofluoromethane	101	(76 - 130)
1,2-Dichloroethane-d4	98	(53 - 154)

CONOCO INC.

Client Sample ID: MW-5

TOTAL Metals

Lot-Sample #...: I2D110168-004

Matrix.....: WATER

Date Sampled...: 04/09/02 16:10 Date Received...: 04/11/02

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK
		LIMIT	UNITS		ANALYSIS DATE	ORDER #
Prep Batch #...: 2101377						
Mercury	ND	0.00020	mg/L	SW846 7470A	04/11-04/12/02	EXP8C1AR
		Dilution Factor: 1				
Prep Batch #...: 2105291						
Silver	ND	0.0050	mg/L	SW846 6010B	04/15-04/18/02	EXP8C1AL
		Dilution Factor: 1				
Arsenic	ND	0.010	mg/L	SW846 6010B	04/15-04/18/02	EXP8C1AD
		Dilution Factor: 1				
Barium	ND	0.20	mg/L	SW846 6010B	04/15-04/18/02	EXP8C1AE
		Dilution Factor: 1				
Calcium	943	25.0	mg/L	SW846 6010B	04/15-04/19/02	EXP8C1AG
		Dilution Factor: 5				
Cadmium	ND	0.0020	mg/L	SW846 6010B	04/15-04/18/02	EXP8C1AF
		Dilution Factor: 1				
Chromium	ND	0.0050	mg/L	SW846 6010B	04/15-04/18/02	EXP8C1AN
		Dilution Factor: 1				
Magnesium	301	5.0	mg/L	SW846 6010B	04/15-04/18/02	EXP8C1AJ
		Dilution Factor: 1				
Sodium	291	5.0	mg/L	SW846 6010B	04/15-04/18/02	EXP8C1AM
		Dilution Factor: 1				
Lead	0.0096	0.0030	mg/L	SW846 6010B	04/15-04/18/02	EXP8C1AH
		Dilution Factor: 1				
Selenium	0.029	0.0050	mg/L	SW846 6010B	04/15-04/18/02	EXP8C1AK
		Dilution Factor: 1				

CONOCO INC.

Client Sample ID: MW-5

General Chemistry

Lot-Sample #...: I2D110168-004 Work Order #...: EXP8C Matrix.....: WATER
 Date Sampled...: 04/09/02 16:10 Date Received...: 04/11/02

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	1410	500	mg/L	MCAWW 300.0A	04/11/02	2102184
		Dilution Factor: 500				
Nitrate	14.0	5.0	mg/L	MCAWW 300.0A	04/11/02	2102186
		Dilution Factor: 10				
Sulfate	1710	100	mg/L	MCAWW 300.0A	04/11/02	2102188
		Dilution Factor: 100				
Total Alkalinity	68.1	5.0	mg/L	MCAWW 310.1	04/18/02	2108409
		Dilution Factor: 1				
Total Dissolved Solids	5780	40.0	mg/L	MCAWW 160.1	04/12-04/13/02	2102385
		Dilution Factor: 1				

CONOCO INC.

Client Sample ID: MW-6

GC/MS Volatiles

Lot-Sample #...: I2D110168-005 Work Order #...: EXP8D1AC Matrix.....: WATER
 Date Sampled...: 04/09/02 16:45 Date Received...: 04/11/02
 Prep Date.....: 04/19/02 Analysis Date...: 04/19/02
 Prep Batch #...: 2112515
 Dilution Factor: 1 Method.....: SW846 8260B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Benzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Xylenes (total)	ND	2.0	ug/L

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
4-Bromofluorobenzene	122	(75 - 133)
Toluene-d8	113	(86 - 126)
Dibromofluoromethane	100	(76 - 130)
1,2-Dichloroethane-d4	96	(53 - 154)

CONOCO INC.

Client Sample ID: MW-6

TOTAL Metals

Lot-Sample #...: I2D110168-005

Matrix.....: WATER

Date Sampled...: 04/09/02 16:45 Date Received...: 04/11/02

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Prep Batch #...: 2101377						
Mercury	ND	0.00020	mg/L	SW846 7470A	04/11-04/12/02	EXP8D1AR
		Dilution Factor: 1				
Prep Batch #...: 2105291						
Silver	ND	0.0050	mg/L	SW846 6010B	04/15-04/18/02	EXP8D1AL
		Dilution Factor: 1				
Arsenic	ND	0.010	mg/L	SW846 6010B	04/15-04/18/02	EXP8D1AD
		Dilution Factor: 1				
Barium	ND	0.20	mg/L	SW846 6010B	04/15-04/18/02	EXP8D1AE
		Dilution Factor: 1				
Calcium	652	25.0	mg/L	SW846 6010B	04/15-04/19/02	EXP8D1AG
		Dilution Factor: 5				
Cadmium	ND	0.0020	mg/L	SW846 6010B	04/15-04/18/02	EXP8D1AF
		Dilution Factor: 1				
Chromium	ND	0.0050	mg/L	SW846 6010B	04/15-04/18/02	EXP8D1AN
		Dilution Factor: 1				
Magnesium	43.4	5.0	mg/L	SW846 6010B	04/15-04/18/02	EXP8D1AJ
		Dilution Factor: 1				
Sodium	10.5	5.0	mg/L	SW846 6010B	04/15-04/18/02	EXP8D1AM
		Dilution Factor: 1				
Lead	0.011	0.0030	mg/L	SW846 6010B	04/15-04/18/02	EXP8D1AH
		Dilution Factor: 1				
Selenium	ND	0.0050	mg/L	SW846 6010B	04/15-04/18/02	EXP8D1AK
		Dilution Factor: 1				

CONOCO INC.

Client Sample ID: MW-6

General Chemistry

Lot-Sample #...: I2D110168-005 Work Order #...: EXP8D Matrix.....: WATER
 Date Sampled...: 04/09/02 16:45 Date Received...: 04/11/02

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	120	100	mg/L	MCAWW 300.0A	04/11/02	2102184
				Dilution Factor: 100		
Nitrate	5.2	0.50	mg/L	MCAWW 300.0A	04/11/02	2102186
				Dilution Factor: 1		
Sulfate	1370	100	mg/L	MCAWW 300.0A	04/11/02	2102188
				Dilution Factor: 100		
Total Alkalinity	81.6	5.0	mg/L	MCAWW 310.1	04/18/02	2108409
				Dilution Factor: 1		
Total Dissolved Solids	2660	40.0	mg/L	MCAWW 160.1	04/12-04/13/02	2102385
				Dilution Factor: 1		

CONOCO INC.

Client Sample ID: DUPLICATE

GC/MS Volatiles

Lot-Sample #....: I2D110168-006 Work Order #....: EXP8G1AC Matrix.....: WATER
 Date Sampled....: 04/09/02 14:00 Date Received...: 04/11/02
 Prep Date.....: 04/19/02 Analysis Date...: 04/19/02
 Prep Batch #....: 2112515
 Dilution Factor: 1 Method.....: SW846 8260B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Benzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Xylenes (total)	ND	2.0	ug/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene	118	(75 - 133)
Toluene-d8	112	(86 - 126)
Dibromofluoromethane	98	(76 - 130)
1,2-Dichloroethane-d4	98	(53 - 154)

CONOCO INC.

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #....: I2D110168-007 Work Order #....: EXP8W1AC Matrix.....: WATER
 Date Sampled....: 04/09/02 18:00 Date Received...: 04/11/02
 Prep Date.....: 04/19/02 Analysis Date...: 04/19/02
 Prep Batch #....: 2112515
 Dilution Factor: 1 Method.....: SW846 8260B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Benzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Xylenes (total)	ND	2.0	ug/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene	119	(75 - 133)
Toluene-d8	112	(86 - 126)
Dibromofluoromethane	101	(76 - 130)
1,2-Dichloroethane-d4	97	(53 - 154)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: I2D110168
 MB Lot-Sample #: I2D220000-515

Work Order #...: EX9JF1AA

Matrix.....: WATER

Analysis Date...: 04/19/02
 Dilution Factor: 1

Prep Date.....: 04/19/02

Prep Batch #...: 2112515

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Benzene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	2.0	ug/L	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
4-Bromofluorobenzene	125	(75 - 133)
Toluene-d8	112	(86 - 126)
Dibromofluoromethane	101	(76 - 130)
1,2-Dichloroethane-d4	104	(53 - 154)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: I2D110168

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: I2D110000-377 Prep Batch #...: 2101377						
Mercury	ND	0.00020	mg/L	SW846 7470A	04/11-04/12/02	EXQ2R1AD
		Dilution Factor: 1				
MB Lot-Sample #: I2D150000-291 Prep Batch #...: 2105291						
Arsenic	ND	0.010	mg/L	SW846 6010B	04/15-04/18/02	EXW1D1AE
		Dilution Factor: 1				
Barium	ND	0.20	mg/L	SW846 6010B	04/15-04/18/02	EXW1D1AF
		Dilution Factor: 1				
Cadmium	ND	0.0020	mg/L	SW846 6010B	04/15-04/18/02	EXW1D1AH
		Dilution Factor: 1				
Calcium	ND	5.0	mg/L	SW846 6010B	04/15-04/18/02	EXW1D1AJ
		Dilution Factor: 1				
Chromium	ND	0.0050	mg/L	SW846 6010B	04/15-04/18/02	EXW1D1A3
		Dilution Factor: 1				
Lead	ND	0.0030	mg/L	SW846 6010B	04/15-04/18/02	EXW1D1AA
		Dilution Factor: 1				
Magnesium	ND	5.0	mg/L	SW846 6010B	04/15-04/18/02	EXW1D1AN
		Dilution Factor: 1				
Selenium	ND	0.0050	mg/L	SW846 6010B	04/15-04/18/02	EXW1D1AU
		Dilution Factor: 1				
Silver	ND	0.0050	mg/L	SW846 6010B	04/15-04/18/02	EXW1D1AV
		Dilution Factor: 1				
Sodium	ND	5.0	mg/L	SW846 6010B	04/15-04/18/02	EXW1D1AW
		Dilution Factor: 1				

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: I2D110168

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	ND	Work Order #: EXRXN1AA 1.0	mg/L	MB Lot-Sample #: I2D120000-184 MCAWW 300.0A	I2D120000-184 04/11/02	2102184
		Dilution Factor: 1				
Nitrate	ND	Work Order #: EXRXL1AA 0.50	mg/L	MB Lot-Sample #: I2D120000-186 MCAWW 300.0A	I2D120000-186 04/11/02	2102186
		Dilution Factor: 1				
Sulfate	ND	Work Order #: EXRXM1AA 1.0	mg/L	MB Lot-Sample #: I2D120000-188 MCAWW 300.0A	I2D120000-188 04/11/02	2102188
		Dilution Factor: 1				
Total Alkalinity	ND	Work Order #: EX5A31AA 5.0	mg/L	MB Lot-Sample #: I2D180000-409 MCAWW 310.1	I2D180000-409 04/18/02	2108409
		Dilution Factor: 1				
Total Dissolved Solids	ND	Work Order #: EXT4J1AA 40.0	mg/L	MB Lot-Sample #: I2D120000-385 MCAWW 160.1	I2D120000-385 04/12-04/13/02	2102385
		Dilution Factor: 1				

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: I2D110168 Work Order #...: EX9JF1AC Matrix.....: WATER
 LCS Lot-Sample#: I2D220000-515
 Prep Date.....: 04/19/02 Analysis Date...: 04/19/02
 Prep Batch #...: 2112515
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
Benzene	106	(86 - 124)	SW846 8260B
1,1-Dichloroethene	80	(64 - 120)	SW846 8260B
Toluene	106	(80 - 115)	SW846 8260B
Trichloroethene	89	(80 - 112)	SW846 8260B
Chlorobenzene	97	(80 - 115)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene	126	(75 - 133)
Toluene-d8	113	(86 - 126)
Dibromofluoromethane	98	(76 - 130)
1,2-Dichloroethane-d4	99	(53 - 154)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #....: I2D110168

Matrix.....: WATER

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
LCS Lot-Sample#:	I2D110000-377	Prep Batch #....:	2101377		
Mercury	103	(81 - 120)	SW846 7470A	04/11-04/12/02	EXQ2R1AF
		Dilution Factor: 1			
LCS Lot-Sample#:	I2D150000-291	Prep Batch #....:	2105291		
Lead	97	(80 - 120)	SW846 6010B	04/15-04/18/02	EXW1D1AC
		Dilution Factor: 1			
Arsenic	93	(80 - 120)	SW846 6010B	04/15-04/18/02	EXW1D1CH
		Dilution Factor: 1			
Barium	97	(80 - 120)	SW846 6010B	04/15-04/18/02	EXW1D1CJ
		Dilution Factor: 1			
Cadmium	97	(80 - 120)	SW846 6010B	04/15-04/18/02	EXW1D1CL
		Dilution Factor: 1			
Calcium	100	(80 - 120)	SW846 6010B	04/15-04/18/02	EXW1D1CM
		Dilution Factor: 1			
Magnesium	96	(80 - 120)	SW846 6010B	04/15-04/18/02	EXW1D1CQ
		Dilution Factor: 1			
Selenium	97	(80 - 120)	SW846 6010B	04/15-04/18/02	EXW1D1CW
		Dilution Factor: 1			
Silver	96	(80 - 120)	SW846 6010B	04/15-04/18/02	EXW1D1CX
		Dilution Factor: 1			
Sodium	97	(80 - 120)	SW846 6010B	04/15-04/18/02	EXW1D1CO
		Dilution Factor: 1			
Chromium	96	(80 - 120)	SW846 6010B	04/15-04/18/02	EXW1D1CS
		Dilution Factor: 1			

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #....: I2D110168

Matrix.....: WATER

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chloride	92	Work Order #: EXRXN1AC (80 - 120)	LCS Lot-Sample#: I2D120000-184 MCAWW 300.0A	04/11/02	2102184
		Dilution Factor: 1			
Nitrate	94	Work Order #: EXRXL1AC (80 - 120)	LCS Lot-Sample#: I2D120000-186 MCAWW 300.0A	04/11/02	2102186
		Dilution Factor: 1			
Sulfate	96	Work Order #: EXRXM1AC (80 - 120)	LCS Lot-Sample#: I2D120000-188 MCAWW 300.0A	04/11/02	2102188
		Dilution Factor: 1			
Total Alkalinity	99	Work Order #: EX5A31AC (80 - 120)	LCS Lot-Sample#: I2D180000-409 MCAWW 310.1	04/18/02	2108409
		Dilution Factor: 1			
Total Dissolved Solids	97	Work Order #: EXT4J1AC (87 - 113)	LCS Lot-Sample#: I2D120000-385 MCAWW 160.1	04/12-04/13/02	2102385
		Dilution Factor: 1			

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: I2D110168 Work Order #...: EXR401AF-MS Matrix.....: WATER
 MS Lot-Sample #: I2D120138-001 EXR401AG-MSD
 Date Sampled...: 04/11/02 09:15 Date Received...: 04/12/02
 Prep Date.....: 04/19/02 Analysis Date...: 04/19/02
 Prep Batch #...: 2112515
 Dilution Factor: 100

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Benzene	103	(86 - 124)			SW846 8260B
	108	(86 - 124)	2.0	(0-6.0)	SW846 8260B
1,1-Dichloroethene	80	(64 - 120)			SW846 8260B
	83	(64 - 120)	3.2	(0-8.0)	SW846 8260B
Toluene	100	(80 - 115)			SW846 8260B
	106	(80 - 115)	3.0	(0-11)	SW846 8260B
Trichloroethene	90	(80 - 112)			SW846 8260B
	94	(80 - 112)	3.7	(0-7.0)	SW846 8260B
Chlorobenzene	99	(80 - 115)			SW846 8260B
	103	(80 - 115)	4.0	(0-11)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene	121	(75 - 133)
	123	(75 - 133)
Toluene-d8	113	(86 - 126)
	112	(86 - 126)
Dibromofluoromethane	103	(76 - 130)
	98	(76 - 130)
1,2-Dichloroethane-d4	100	(53 - 154)
	98	(53 - 154)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #....: I2D110168

Matrix.....: WATER

Date Sampled....: 04/08/02 04:00 Date Received...: 04/08/02

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
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MS Lot-Sample #: I2D080149-005 Prep Batch #...: 2101377

Mercury	91	(75 - 125)			SW846 7470A	04/11-04/12/02	EXJR31AQ
	94	(75 - 125)	2.9	(0-20)	SW846 7470A	04/11-04/12/02	EXJR31AR

Dilution Factor: 1

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: I2D110168

Matrix.....: WATER

Date Sampled...: 04/04/02 18:00 Date Received...: 04/06/02

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
MS Lot-Sample #: I2D060147-001 Prep Batch #...: 2105291							
Arsenic	93	(75 - 125)			SW846 6010B	04/15-04/18/02	EXHQT1AN
	92	(75 - 125)	0.60	(0-20)	SW846 6010B	04/15-04/18/02	EXHQT1AP
		Dilution Factor: 1					
Barium	95	(75 - 125)			SW846 6010B	04/15-04/18/02	EXHQT1AR
	96	(75 - 125)	0.27	(0-20)	SW846 6010B	04/15-04/18/02	EXHQT1AT
		Dilution Factor: 1					
Cadmium	93	(75 - 125)			SW846 6010B	04/15-04/18/02	EXHQT1A0
	94	(75 - 125)	0.10	(0-20)	SW846 6010B	04/15-04/18/02	EXHQT1A1
		Dilution Factor: 1					
Calcium	88	(75 - 125)			SW846 6010B	04/15-04/18/02	EXHQT1A3
	90	(75 - 125)	0.54	(0-20)	SW846 6010B	04/15-04/18/02	EXHQT1A4
		Dilution Factor: 1					
Chromium	93	(75 - 125)			SW846 6010B	04/15-04/18/02	EXHQT1DN
	93	(75 - 125)	0.27	(0-20)	SW846 6010B	04/15-04/18/02	EXHQT1DP
		Dilution Factor: 1					
Lead	95	(75 - 125)			SW846 6010B	04/15-04/18/02	EXHQT1AG
	94	(75 - 125)	0.11	(0-20)	SW846 6010B	04/15-04/18/02	EXHQT1AH
		Dilution Factor: 1					
Magnesium	93	(75 - 125)			SW846 6010B	04/15-04/18/02	EXHQT1CG
	93	(75 - 125)	0.31	(0-20)	SW846 6010B	04/15-04/18/02	EXHQT1CH
		Dilution Factor: 1					
Selenium	96	(75 - 125)			SW846 6010B	04/15-04/18/02	EXHQT1C0
	95	(75 - 125)	0.35	(0-20)	SW846 6010B	04/15-04/18/02	EXHQT1C1
		Dilution Factor: 1					
Silver	95	(75 - 125)			SW846 6010B	04/15-04/18/02	EXHQT1C3
	96	(75 - 125)	0.58	(0-20)	SW846 6010B	04/15-04/18/02	EXHQT1C4
		Dilution Factor: 1					
Sodium	97	(75 - 125)			SW846 6010B	04/15-04/18/02	EXHQT1C6
	98	(75 - 125)	0.31	(0-20)	SW846 6010B	04/15-04/18/02	EXHQT1C7
		Dilution Factor: 1					

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: I2D110168

Matrix.....: WATER

Date Sampled...: 04/09/02 13:45 Date Received...: 04/11/02

PARAMETER	PERCENT	RECOVERY	RPD		METHOD	PREPARATION-	PREP	
	RECOVERY	LIMITS	RPD	LIMITS		ANALYSIS DATE	BATCH #	
Chloride			WO#: EXP7N1A2-MS/EXP7N1A3-MSD		MS	Lot-Sample #: I2D110168-001		
	105	(75 - 125)			MCAWW 300.0A	04/11/02	2102184	
	104	(75 - 125)	0.20	(0-20)	MCAWW 300.0A	04/11/02	2102184	
			Dilution Factor: 100					
Nitrate			WO#: EXP7N1AW-MS/EXP7N1AX-MSD		MS	Lot-Sample #: I2D110168-001		
	108	(75 - 125)			MCAWW 300.0A	04/11/02	2102186	
	107	(75 - 125)	0.82	(0-20)	MCAWW 300.0A	04/11/02	2102186	
			Dilution Factor: 1					
Sulfate			WO#: EXP7N1A0-MS/EXP7N1A1-MSD		MS	Lot-Sample #: I2D110168-001		
	108	(75 - 125)			MCAWW 300.0A	04/11/02	2102188	
	107	(75 - 125)	0.70	(0-20)	MCAWW 300.0A	04/11/02	2102188	
			Dilution Factor: 100					

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #....: I2D110168 Work Order #....: EXQTX-SMP Matrix.....: WATER

EXQTX-DUP

Date Sampled....: 04/10/02 14:00 Date Received...: 04/11/02

% Moisture.....: 100

Dilution Factor:

Initial Wgt/Vol:

PARAM	RESULT	DUPLICATE	UNITS	RPD	RPD	LIMIT	METHOD	PREPARATION-	PREP
		RESULT						ANALYSIS DATE	BATCH #

Total Dissolved Solids SD Lot-Sample #: I2D110242-001

311	354		mg/L	13	(0-20)	MCAWW 160.1		04/12-04/13/02	2102385
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Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #....: I2D110168

Work Order #....: EX2AM-SMP

Matrix.....: WATER

EX2AM-DUP

Date Sampled....: 04/15/02 15:55

Date Received...: 04/17/02

% Moisture.....: 100

Dilution Factor:

Initial Wgt/Vol:

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Total Alkalinity	376	369	mg/L	1.9	(0-20)	SD Lot-Sample #: I2D170183-001 MCAWW 310.1	04/18/02	2108409

Dilution Factor: 1

