

6723 Towpath Road, Box 66 Syracuse, NY 13214-0066

May 17, 2005

Ref. No.

Ref. No. 17366-208

Mr. Robert W. Schultz, R.G. Hazardous Materials Specialist Alameda County Environmental Health 1131 Harbor Bay Parkway Alameda, California 94502

Dear Mr. Schultz:

Re:

Site Assessment Work Plan

Saturn of Pleasanton 4340 Rosewood Blvd. Pleasanton, California

Enclosed, please find the Site Assessment Work Plan for the Saturn of Pleasanton site in Pleasanton, California.

I declare, under penalty of perjury, that based on my inquiry of those individuals responsible for obtaining the information contained in the attached report, the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge in accordance with the California Business and Professions Code (Sections 6735, 6835, and 7835.1).

Questions on the information contained herein can be directed to either Ms. Jennifer Quigley at (517) 316-2397 or Mr. Robert Siegfried at (209) 983-6810.

Yours truly,

ENCORE ENVIRONMENTAL CONSRTIUM, LLC

Robert T. Siegfried, R.G., C.E.G.

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JQ/2/Lan.

cc:

Val Schuster

Deena VanCamp Jennifer Quigley Martha Darnton



SITE ASSESSMENT WORK PLAN SATURN OF PLEASANTON 4340 ROSEWOOD BOULEVARD PLEASANTON, CALIFORNIA

PREPARED FOR:

SATURN RETAIL OF SOUTH CAROLINA, LLC

ENCORE ENVIRONMENTAL CONSORTIUM, LLC

DATE: April 26, 2005



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DATE: April 26, 2005

Signature Roll T. Signature

Robert Siegfried, RG 3848, CEG 1647

Author

Signature ...

Jennifer Quigley

Senior Reviewer



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1.0 INTRODUCTION

Encore Environmental Consortium, LLC (EEC) has prepared this Site Assessment Work Plan (Work Plan) on behalf of Saturn Retail of South Carolina, LLC (Saturn) for the Saturn of Pleasanton site located in Pleasanton, California (Site). The Site Assessment Work Plan describes investigation tasks designed to obtain information to adequately determine impacts to the Site soil and groundwater due to Site operations.

1.1 PURPOSE

The purpose of this Site Assessment Work Plan is to present the protocols to be used to complete the proposed additional investigation activities. The work plan will include:

- A subsurface investigation, including vertical aquifer sampling (VAS), to further delineate the extent
 of volatile organic compound (VOC) impact at the Site to the south of the oil-water separator (OWS).
- Vertical soil profiling in the vicinity of the OWS to the groundwater table.

1.2 SITE LOCATION

The Site is located at 4340 Rosewood Boulevard in Pleasanton, California, as presented in Figure 1. Figure 2 presents a Site Plan. The Site is located in a mixed commercial and residential area, northwest of downtown Pleasanton. The parcel is comprised of approximately 1.9 acres of land

1.3 WORK PLAN ORGANIZATION

The remainder of this Site Assessment Work Plan is organized as follows:

- Section 2.0 describes the Site background, history, and past remedial investigations and actions.
- Section 3.0 describes Site setting, including area demographics, Site geology, and hydrogeology, and current Site conditions.
- Section 4.0 presents the sampling and analysis plan for the Site activities.
- Section 5.0 presents the proposed investigation scope of work.
- Section 6.0 presents the proposed schedule for the Site Assessment Work Plan implementation.

2.0 SITE BACKGROUND

2.1 SITE HISTORY

The Site is located in a mixed commercial and residential area, northwest of downtown Pleasanton, California. The Site is currently an active automobile dealership, service shop, automobile detailing area, and employee parking lot.

The entire Saturn of Pleasanton dealership encompasses three separate parcels, designated as Parcels A, B, and C. The parcel which the Work Plan will be initiated on is Parcel A, located at 4340 Rosewood Drive, which consists of approximately 1.9 acres containing the Saturn dealership/repair building and asphalt parking areas.

2.2 SUMMARY OF REMEDIAL ACTIVITIES

Previous investigations and/or remedial activities conducted at the Site include the following:

- Phase I-II Hybrid Environmental Site Assessment (HEA) report prepared by EEC and dated December 5, 2002;
- Oil/Water Separator Removal and Replacement report prepared by EEC and dated September 17, 2003; and
- Summary of Preliminary Groundwater Investigation Activities prepared by EEC and dated October 10, 2003.

Phase I-II HEA

The Phase I-II HEA was conducted in general accordance with ASTM Standard E1527-00 for Phase I ESA for the Site by EEC in November 2002. The due diligence activities consisted of an agency file review, interviews with Site personnel, and a Site walkthrough. As a part of the Phase I portion of the due diligence activities, the OWS was identified as a recognized environmental condition (REC).

Based on the results of the Phase I ESA portion of the Phase I-II HEA, Phase II ESA subsurface investigation activities were conducted by EEC on December 2, 2002. To investigate the OWS, one soil boring, DP-11, was installed adjacent to the unit to approximately 28 feet bgs. One grab groundwater sample was collected from the soil boring annulus for analysis for Target Compound List (TCL) volatile organic compounds (VOCs) and total petroleum hydrocarbons gasoline range organics (TPH GRO). Based on the analytical results, benzene, cis-1,2-dichloroethene (cis-1,2-DCE), and trichloroethene (TCE) were detected in the groundwater sample at concentrations of 6.3 μg/L, 17 μg/L, and 120 μg/L, respectively, which are above the California Maximum Contaminant Level (MCLs) of 1.0 μg/L, 6.0 μg/L, and 5.0 μg/L, respectively. Ethylbenzene, xylenes, 1,1-dichloroethene (1,1-DCE), trans-1,2-DCE, and tetrachloroethene (PCE) were detected in the groundwater sample at concentrations above the laboratory detection limits, but below the applicable California MCLs. TPH GRO was detected in the groundwater sample at a concentration of 330 μg/L; however, there is no MCL criterion promulgated in the State of California for TPH-GRO.

OWS Removal and Replacement

Based on the elevated concentrations of VOCs and TPH GRO in the vicinity of the OWS, EEC recommended that the OWS be removed and replaced. A summary of the OWS removal and replacement activities was submitted to the Livermore-Pleasanton Fire Department and the Alameda County

Department of Environmental Health (ACDEH), and dated February 10, 2003. .OWS removal and replacement activities were conducted between July 7, 2003 and July 31, 2003.

Prior to the initiation of the OWS removal and replacement activities, approximately 1,800 gallons of wastewater present in the OWS was removed, characterized, and disposed. Approximately 60 cubic yards of impacted soil from the OWS excavation were transported off-Site between August 7, 2003 and August 11, 2003 for off-Site landfill disposal as non-hazardous waste.

During the removal and replacement activities, 15 soil samples (BW-1, BE-2, WW-3, EW-4, SW-5, NW-6, EW-7, NW-8, BW-9, BE-10, NW-11, WW-12, EW-13, and SW-14) were collected from the OWS excavation. Sample BW-9 was divided into two samples from the same area, resulting in a total of 15 soil samples.

Three rounds of soil samples were collected from the OWS excavation and submitted for laboratory analysis on a 24 hour turnaround time (TAT) for parameters requested by the Livermore Pleasanton Fire Department (LPFD) and the ACDEH. Groundwater was not encountered during the Phase IV activities.

Soil samples collected during rounds 1 and 2 were analyzed for VOCs, TPH DRO, and TPH GRO. Soil samples collected during round 3 were analyzed for VOCs, semi-volatile organic compounds (SVOCs), selected metals (cadmium, chromium, copper, lead, nickel, and zinc), and total oil and grease (TOG).

Based on the analytical results, of the constituents detected during the first round of sampling, only cis-1,2-DCE, detected at concentrations ranging from 0.28 milligrams per kilogram (mg/kg) to 2.4 mg/kg from samples BW-1, EW-4, SW-5, and NW-6, exceeded the San Francisco Regional Water Quality Control Board (RWQCB) Risk Based Screening Level (RBSL) criterion of 0.19 mg/kg. No constituents were detected in soil above the applicable RWQCB RBSL for soil samples EW-7 or NW-8 during the second round of sampling. Of the VOC constituents detected during the third round of sampling, only cis-1,2-DCE, detected at a concentration 0.87 mg/kg and acetone, detected at a concentration of 0.55 mg/kg from sample BW-9 exceeded the applicable RWQCB RBSL criteria. Chromium was also detected in all the round three samples at concentrations ranging from 31 mg/kg to 37 mg/kg, exceeding the most stringent RWQCB RBSL criterion of 13 mg/kg.

Based on the review of the analytical results for the sampling rounds by the ACDEH, verbal approval to install the new OWS was provided to EEC on July 25, 2003, and written approval to install the new OWS was provided to EEC on July 28, 2003.

Installation of one concrete OWS by a licensed contractor was performed following written agency approval. Restoration of the Site including the replacement of asphalt, repainting of parking spaces affected by the Phase IV activities, removal of excavated soils for off-Site disposal, and minor repairs to an area of damaged stucco material.

Summary of Preliminary Groundwater Investigation Activities

A Summary of Preliminary Groundwater Investigations Activities letter, dated October 10, 2003, was submitted to the Zone 7 Flood Control District of California.

Due to the nature of the VOCs detected in the groundwater in the vicinity of the OWS during previous investigations, a preliminary subsurface investigation was conducted at the Site in May 2003. A total of eight soil borings (SP-1 through SP-8) were advanced utilizing direct push techniques to depths of approximately 26 to 32 feet bgs in the vicinity of the OWS to further define the horizontal extent of VOCs in groundwater. A total of eight groundwater samples were collected from the borings through a 0.75-inch inside diameter stainless steel screen by advancing an expandable drive point into each direct

push boring. Groundwater was induced to the surface using new, dedicated, teflon tubing fitted with a small check valve. Groundwater samples were collected for analysis of TCL VOCs. Soil borings SP-1 through SP-4 were advanced on May 13, 2002 and soil borings SP-5 through SP-8 were advanced on May 28, 2003 based on the analytical results of groundwater samples collected from SP-1 through SP-4.

Based on analytical results, cis-1,2-DCE was detected in the groundwater samples collected from SP-1 and SP-3 at concentrations of 47 μ g/L and 9 μ g/L, respectively, which are above the MCL of 6.0 μ g/L. TCE was detected in the groundwater samples collected from SP-1, SP-3, and SP-8 at concentrations of 26 μ g/L, and 38 μ g/L, respectively, which are above the MCL of 5.0 μ g/L. MTBE was detected in the groundwater samples collected from SP-1 and SP-3 at concentrations of 62 μ g/L and 29 μ g/L, respectively, which are above the MCL of 13 μ g/L.

The summary of preliminary groundwater investigation activities conducted by EEC concluded that the horizontal extent of the VOC contamination in shallow groundwater at concentrations above the MCLs had been delineated to the north, west, and east of the OWS. The horizontal extent of TCE contamination in shallow groundwater at concentrations above the MCLs had not been delineated to the south of the OWS.

3.0 SITE SETTING

3.1 TOPOGRAPHY AND LAND USE

The Site is relatively flat and is located in a mixed commercial and residential area, northwest of downtown Pleasanton, California. The Site is currently an active automobile dealership and employee parking lot.

3.2 GEOLOGY

The Site is located within the Livermore-Alameda Valley situated within the Coastal Ranges of Central California. The Livermore-Alameda Valley contains Quaternary Alluvial deposits. The deposits typically consist of crudely interbedded clayey silt, silty clay, and clayey sands intercalated with sand and gravel lenses. Information regarding the geologic conditions at the Site was collected during EEC's Preliminary Groundwater Investigation (PGWI) activities. Stratigraphic logs for the boreholes installed during the PGWI are presented in Appendix B.

The Site is underlain by light brown clayey silt and brown silty clay with occasional sandy stringers. The upper clayey silt/silty clay is underlain by dark brown saturated plastic clay. A predominant sand layer is present at approximately 24 to 28 feet bgs, which supplied groundwater to the individual soil borings. While static groundwater levels were not reached while the borings were open, static groundwater is estimated to be present at approximately 14 feet bgs.

3.3 HYDROGEOLOGY

There are no surface water bodies at the Site. The nearest surface water body is the Tassajara Creek, located approximately 200 feet west of the Site. Based on data collected during previous due diligence activities, the depth to shallow groundwater at the Site is 26 feet bgs. Based on available information, regional shallow groundwater flow varies, but would be anticipated to be to the southwest in the vicinity of the Site.

As indicated above, depth to static groundwater is estimated at approximately 14 feet bgs. This depth is consistent with information collected by the Zone 7 Water Agency (Zone 7), which oversees groundwater management within the Livermore-Alameda Valley groundwater basin. The Zone 7 Semi-Annual Groundwater Gradient Map indicates that the upper aquifer groundwater flow at the Site is to the south at 0.013 ft/ft. Zone 7 indicates that several Municipal Supply Wells (receptors) are located approximately one mile south of the Site; however, no receptors are located within a half-mile radius of the Site. In addition, a private supply well is shown approximately 300 feet west of the Site.

3.4 CURRENT SITE ENVIRONMENTAL CONDITIONS

The source of the impacts to the Site groundwater was determined to be the OWS located east of the service area outside of the building.

The horizontal extent of the VOC contamination in the vicinity of the OWS is delineated to the north, west, and east. The horizontal extent of TCE contamination in the vicinity of the OWS is not delineated to the south. The vertical extent of the VOC contamination has not been determined at the Site. Free

product has not been historically observed at the Site. Historical groundwater VOC concentrations are provided on Figure 4.

As referenced in Section 2.2 of this Work Plan, benzene, TCE, cis-1,2-DCE, and MTBE were detected above comparable regulatory criteria in groundwater samples collected from soil borings advanced in the vicinity of the OWS. Cis-1,2-DCE and chromium were detected above comparable regulatory criteria in soil samples collected from the OWS excavation during removal and replacement activities.

Chemicals that may have drained to the oil-water separator include car wash chemicals from car washing activities and washwater from the service area floors containing diluted/dissolved concentrations of vehicle fluids.

To the best of EEC's knowledge, there have been no known release to the OWS. Based upon review of available information to date and the Site inspection conducted during the Phase I-II HEA, it is EEC's opinion that the source of the VOC contamination in shallow groundwater is from the OWS.

4.0 SAMPLING AND ANALYSIS PLAN

The Sampling and Analysis Plan (SAP) for the Site Assessment Work Plan activities is presented below.

4.1 CHEMICALS OF CONCERN

As referenced in Section 2.2 of this Work Plan, benzene, TCE, cis-1,2-DCE, and MTBE were detected above comparable regulatory criteria in groundwater samples collected from soil borings advanced in the vicinity of the OWS. Cis-1,2-DCE and chromium were detected above comparable regulatory criteria in soil samples collected from the OWS excavation during removal and replacement activities.

4.2 CERTIFIED LABORATORY AND CHAIN OF CUSTODY PROCEDURES

Severn Trent Laboratories, Inc. located in North Canton, Ohio will serve as the certified laboratory. Chain-of-custody (COC) procedures will follow regulatory agency guidelines for site-specific sampling plans and will include, at a minimum:

- Site name;
- Signature of sampler;
- Date and time of sample collection;
- Sample identification numbers;
- Number of containers in sample set;
- Description of sample and containers; and,
- Name and signature of persons, and the companies or agencies they represent, who are involved in the chain of possession.

4.3 SAMPLING PROCEDURES AND SAMPLE MANAGEMENT

4.3.1 SOIL PROCEDURES AND MANAGEMENT

Soil samples will be obtained using a Geoprobe® direct push drill rig with dual tubes. A minimum of one soil sample will be collected at every five-foot interval until groundwater is encountered. Discrete soil samples will be collected at other intervals, if warranted by field observation or screening with a photoionization detector (PID), to more accurately define the extent of impact to groundwater. Soil samples will not be collected below the water table.

Of the soil samples collected from each boring, only those samples exhibiting the greatest evidence of impact based on field observations or screening with a PID and the first sample beneath the impacted interval exhibiting no evidence of impact will be submitted for laboratory analysis. In the event that none of the soil samples exhibit evidence of impact, the soil sample collected immediately above the water table will be submitted for laboratory analysis. One soil sample per boring, for a total of two soil samples will be submitted for laboratory analysis.

The soil samples will be analyzed for TCL VOCs by USEPA Method 8260.

Soil samples will be submitted to the laboratory in segments removed from the plastic Macrocore® liners utilized by the Geoprobe® drill rig, sealed with plastic sheets and end caps, then appropriately labeled with a unique sample identification number, the sampler's initials, the sample date, the sample time, and the requested laboratory analysis. The sample containers will be placed on ice for preservation during delivery to the laboratory using the chain-of-custody procedures in Section 4.2.

4.3.2 GROUNDWATER VAS PROCEDURES

Discrete water samples will be collected utilizing hydropunch techniques at 10-foot intervals beginning at the water table and continuing to the terminus of the soil boring at the confining layer or a total depth of 75 feet bgs, whichever is encountered first, as directed by EEC personnel. Approximately 12 groundwater samples will be collected, based on the groundwater elevation, for laboratory analysis.

The discrete water samples will be analyzed for TCL VOCs by USEPA Method 8260M.

The water samples will be appropriately labeled with a unique sample identification number, the sampler's initials, the sample date, the sample time, and the requested laboratory analysis. The sample containers will be placed on ice for preservation during delivery to the laboratory using the chain-of-custody procedures in Section 4.2.

4.3.3 QUALITY ASSURANCE/QUALITY CONTROL

During the advancement of the Geoprobe® borings, sample collection, and field analysis, a Quality Assurance/Quality Control (QA/QC) program will be employed. The QA/QC procedures will include, but are not limited to, the following:

- Cleaning of drilling equipment prior to use at each boring location;
- Decontamination of sampling equipment prior to each sampling event;
- Proper calibration of field equipment;
- Chain of custody protocol for laboratory analysis to ensure sample integrity; and
- Documentation of field procedures.

4.3.4 DECONTAMINATION PROCEDURES

Prior to sampling, all non-disposable sampling equipment will be washed in an Alconox solution then rinsed with distilled water. Nitrile gloves and plastic bags will be disposed of between sampling intervals to prevent cross contamination of samples.

4.3.5 METHOD DETECTION LIMITS AND PRESERVATION PROTOCOLS

The TCL VOC method detection limits (MDLs) will vary depending on sample specific preparation factors. The TCL VOC MDLs are presented in Appendix C. The resulting MDL when each sample is analyzed will be utilized for reporting purposes. As described above, samples will be preserved on ice then sent to the laboratory utilizing either a same day courier or an overnight delivery service, such as Federal Express, etc.

4.3.6 FIELD SCREENING INSTRUMENTS AND CALIBRATION PROTOCOLS

A portion of each recovered soil sample will be placed into a zip-lock plastic bag, sealed, and allowed to equilibrate to the ambient air temperature. A photoionization detector (PID) will be utilized to measure and record the organic vapor concentration in the headspace of each bag. The PID will be calibrated with 100 parts per million (ppm) isobutylene gas prior to the sampling activities.

5.0 SITE ASSESSMENT SCOPE OF WORK

The following sections describe the proposed investigation activities, which form the Site Assessment Work Plan. The field activities will be conducted in accordance with a Site-specific Health and Safety Plan (HASP), which will be developed prior to implementation of investigation activities.

5.1 SITE ACCESS AND NOTIFICATION

Access to the Site will be confirmed through Saturn and Saturn of Pleasanton.

Mobilization to the Site to complete the Site Assessment Work Plan Tasks will commence upon the acceptance of the work plan by the ACDEH.

5.2 SOIL BORING INVESTIGATION WITH VERTICAL AQUIFER SAMPLING (VAS)

A subsurface investigation will be conducted to determine the horizontal and vertical extent of the VOC contamination in soil and groundwater in the vicinity of the OWS. The horizontal extent of VOC contamination in groundwater is not delineated to the south of the OWS and the vertical extent of VOC contamination in soil has not been delineated; therefore, soil borings, including VAS, will be advanced to determine the extent of contamination.

One soil boring (SB-9) will be advanced at the location of DP-11, in the vicinity of the OWS utilizing direct push Geoprobe[®] techniques in order to determine the Site-specific geology of the Site and determine the intervals and locations of the VAS samples. The soil boring will be advanced to a maximum depth of 75 feet bgs. Soil samples will be collected continuously using 4-foot long macrocore samplers and logged to determine the stratigraphy in the area of the OWS.

Two soil borings will be installed, including soil sampling and VAS, at the Site utilizing direct push Geoprobe® techniques. One soil boring with VAS (SB-VAS-1) will be advanced within the known area of TCE contamination (DP-11) and one soil boring with VAS (SB-VAS-2) will be advanced to the south of the OWS location. Soil borings shall be advanced at the designated locations using a Geoprobe® equipped with hydropunch capabilities to collect the VAS samples. Soil samples will be collected at 4-foot intervals utilizing a 4-foot long macrocore sampler.

Discrete groundwater samples will be collected utilizing the hydropunch method. Once the well point is advanced to the desired depth for groundwater sample collection, the outer casing will be retracted to expose a stainless steel screen through which the groundwater sample will be collected. Discrete groundwater samples will be collected from each soil boring at 10-foot intervals beginning at the water table, dependent upon stratigraphic conditions determined during the installation of SB-9. If the stratigraphy indicates that the type of formation encountered will not yield sufficient groundwater to support sample collection (i.e., tight clays or silts), then a sample will be collected at the next appropriate interval, at the discretion of a California certified geologist. VAS samples will be collected in laboratory approved and provided containers and shipped to the laboratory for TCL VOC analysis.

Soil borings will be advanced to a depth of approximately 75 feet bgs, as determined by EEC personnel. Concrete coring of approximately four-inch thick concrete will be performed, as necessary. Concrete will be patched after completion of drilling activities. Soil samples will be collected continuously using 4-foot long macrocore samplers at each location.

Soil cuttings will be screened with an 11.7 eV bulb PID and examined for visual/olfactory indication of contamination. All soil cuttings will be containerized in DOT approved 55-gallon drums and labeled for future characterization.

5.3 SAMPLE ANALYSIS AND VALIDATION

Grab groundwater samples collected during the investigation activities from the VAS will be submitted for laboratory analysis for TCL VOCs on a standard two-week turn around time (TAT).

Validation of analytical data will be performed by EEC's QA Officer utilizing the "U.S. EPA Contract Laboratory Program National Function Guidelines for Organic Data Review", EPA-540/R-99/008, October 1999 and "U.S. EPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review", EPA-540/R-94-013, February 1994 (CLP National Functional Guidelines). The specific data qualifiers used will be as presented and defined in the CLP National Functional Guidelines. Validation will be performed by trained EEC chemists at the direction of the EEC QA officer.

5.4 REPORTING

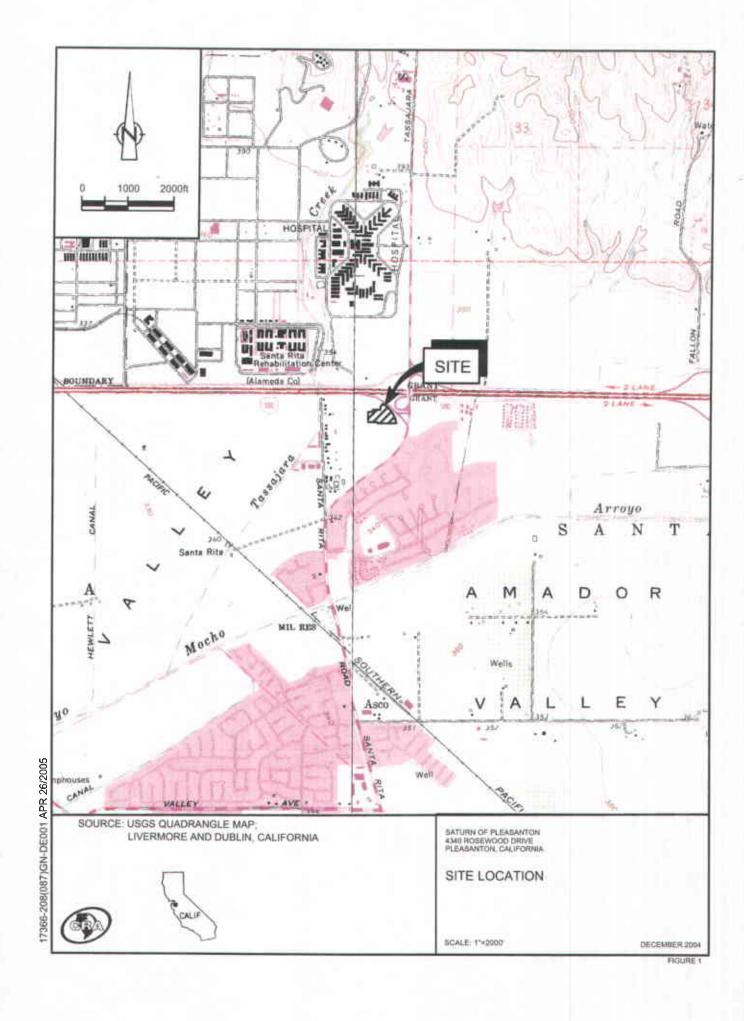
Once data have been received and validated, as appropriate, EEC will prepare a Site Assessment Investigation Report. The Site Assessment Investigation Report will present a compilation and evaluation of the data collected during the Site Assessment activities and previous investigations, and present Saturn's proposed future activities for the Site.

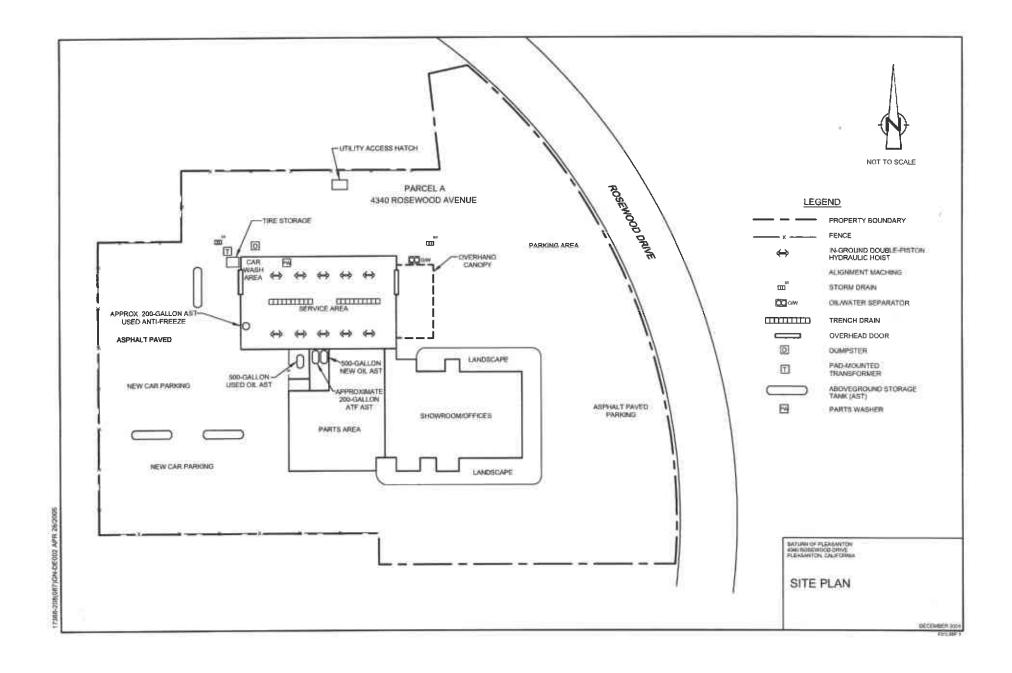
5.5 ADDITIONAL INVESTIGATIVE ACTIVITIES

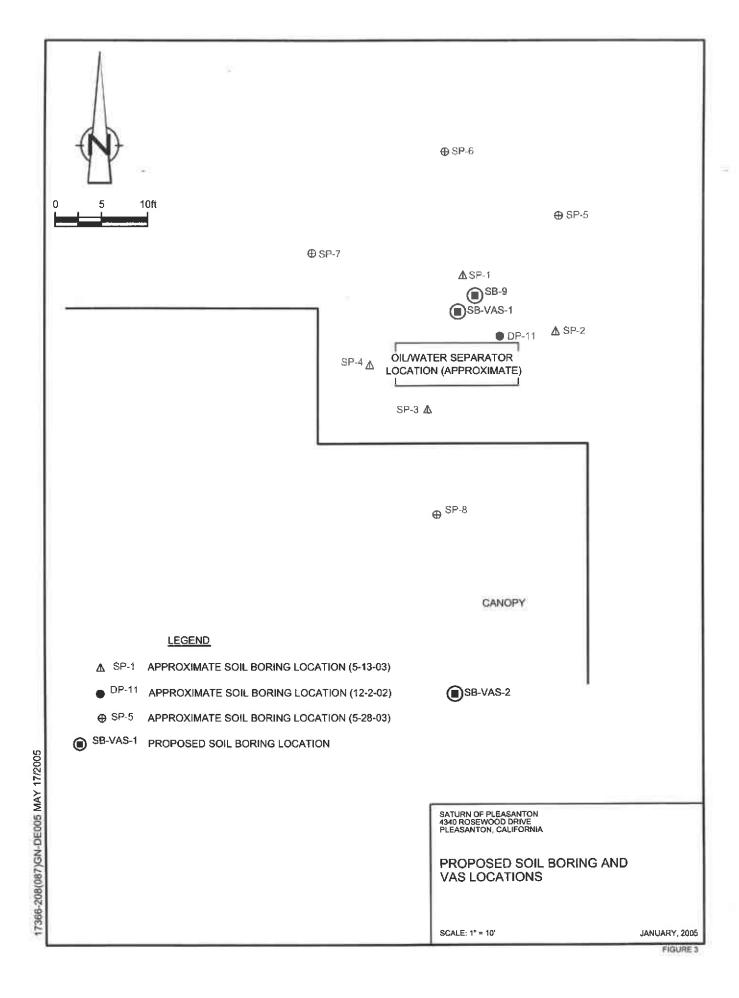
If, based on the results of the subsurface investigation discussed above, concentrations of VOCs in groundwater and/or soil are determined to be above the applicable criteria, additional soil borings and/or VAS will be advanced at the Site. The proposed locations will be provided to the ACEHD and upon receipt of approval to proceed at those locations, the work will proceed in accordance with the protocol provided above.

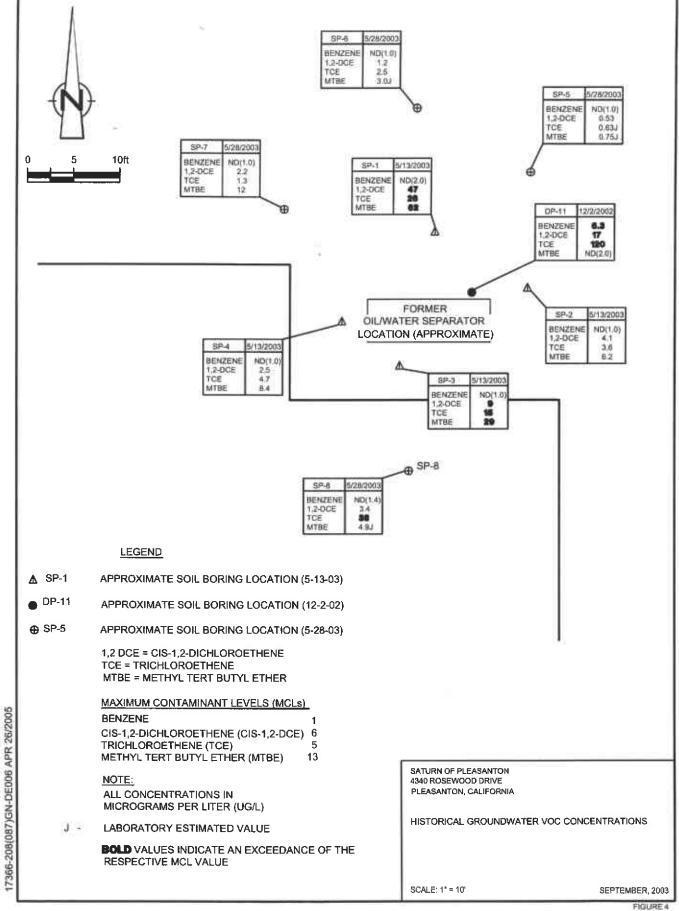
SCHEDULE 6.0

Site Assessment Investigation activities will be scheduled following approval of Work Plan by the ACDEH.









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		12.	moist	†		-		 				<u> </u>	
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	otes and whents	ļ	DEPTH OF BOREHOLE CAVING DEPTH OF FIRST GROWNDWATER ENCOUNTER WATER LEVEL IN OPEN BOREHOLE ON COMPLETION AFTER HOURS_ COMPLETION DETAILS: SCAL Shut with Partland Cement Tremic MOTE: FOR EACH SPUIT-SPOON SAMPLE, RECORD BLOW COUNTS, N-VALUE, SAMPLE RECOVERY LENGT	<u>(</u>	<u>(, ; </u>	6000	tuou	i svæl	sta	ining			
)GN-	WA023 SEP 13/99 (SP-17) REVISION 3	A WILL	waste,	MICHAN	L.]

}			STRATIGRAPHY LOG (OVERBURD	EN)							PAGE	/	, ·
Pi	NOVECT :	NAME	Satura of Pleasonton DRILLING CONTRACTOR ECA 17365-30 DRILLING CONTRACTOR ECA	,					_	0.7	PAGE	OF _	
PE	SOMECE :	NUMBER	17365-30 DRILLER			HOLE !	DESIGN	ATTON	<u>- 11/</u>	7-17	109		
, ca	TENT	ENC.	OKE SURPACE ELEVATION 200'			DATE/1	mar s	TAKTUU YVVPI ka	men /	2-2-0	109	03	
[[LATION	7 76.	TRAITION (AM.) COOT			DRULL	IC MIT	THOD	Dir	C/F 1	Dur L		- -
			(P.M.)			CRA ST	JPBRV1	SOR 🚄	<u>5. 57</u>	carrie	d		
l n	atigra Nterva	TQ	SAMPLE DESCRIPTION ORDER OF DESCRIPTORS:			SAMP	LE D	ETAIL	S		P	CA	G
(DEPTH	S IN (I	/m BGS	SOIL TYPE SYMBOL'S) — MAIN COMPONENT(S), (NATURE OF DEPOSIT), SECONDARY COMPONENTS DEFINITION DESIGNATION (COMPONENTS)	s	S	i	REG	rayio:		SIAN	D		R
₽ R			SOIL TYPE SYMBOL'S) — MAIN COMPONENT(S), (NATURE OF DEPOSIT), SECONDARY COMPONENTS, RELATIVE DENSITY/CONSISTENCY, GRAIN SIZE/PLASTICITY, GRADATION/STRUCTURE, COLOUR, MOISTURE CONTENT, SUPPLEMENTARY DESCRIPTORS	M P	PE	(RE	CORD	OON BI N-VAI OVERIE	LITES	P E L R	E	E A M L I Y C S	N
κ Ū	A T	0	SAMPLE IS TOO DRY TO BOLL (INDICATE IF MOISTURE WAS ADDED OR NOT).	i L B	I H N O G D	d-	a-	8.	B)	BV	ם	A I L S	S l Z
0		1	Concrete / gravel base	17	c.c.	+	 - -	 - -	 " -	7-1	(ppm)		10.
7			ML - Clayey Sitt, firm, gray-brown, damp	Z	1.7	 	ļ	 	 	73,	ND		
		6.5	i comp	3	 	 	<u> </u>		 	57	ND		
6.5			CL-Clay, Stiff, manderale plasticity, brown	 				 	 	11-12	NO	<	
		10.0	moist-	1-		-		<u> </u>	 _	 			
10.0			CH-Clay, very stiff, dark brown, plastic	 	 								
		12	minist		 		, ,		_	ļ			
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		 	DEPTH OF BORFHOLF CAURIC						-1				
	AND CIMA	\ \ \	MATER LEVEL IN OPEN BOREHOLE ON COMPLETION	110	TOPS	IOIL THIC	KHESS			- ,, ,			
	DOENTS	ļ	DEPTH OF BOREHOLE CAWING DEPTH OF FIRST GROUNDWATER ENCOUNTER	CC	= (a	ntinu	\$15 Zwes	vai Core	stail	nin5			
		¹	NOTE: FOR EACH SPLIT-SPOON SAMPLE, RECORD BLOW COUNTS, N-VALUE, SAMPLE RECOVERY LENGTH	i, AND	SAMPLE !	NTERVA							
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			STRATIGRAPHY LOG (OVERBURD	-							PAGE	_ of _	۷.
P1	CATION	NAME 20 NUMBER _ ENCO Ple	DRILLING CONTRACTOR FCA 17365-30 DRILLING CONTRACTOR FCA DRILLING CONTRACTOR FCA DRILLING CONTRACTOR FCA SURFACE ELEVATION ZOO' WEATHER (AM) //// d (P.M)		·	DATE/1	DAR S	TARTED OMPLET	<u>/2</u>	-2-02 2-2-0	/100 2 Push fried) <u>5</u>	
	ATKRA		SAMPLE DESCRIPTION	T-		SAMP					P	CA	1 0
	MTERVA S IN ft	is /m BGS	SECONDARY COMPONENTS, RELATIVE DENSITY/CONSISTENCY, GRAIN SIZE/PLASTICITY, GRADATION/STRUCTURE, COLOUR, MOISTURE CONTENT, SUPPLEMENTARY DESCRIPTORS	S A H P L	S M M P E L T I H	SPL (RE)	PENET REC IT SPC CORO	RATION CORD CON BI N-VAL	N LOWS	S I A N M T P E L R	a 1	H N E A N L I Y C S	R A I N
<u> ŭ</u>	Ī	O	NOTE PLASTICITY DETERMINATION REQUIRES THE ADDITION OF MOISTURE IF THE SAMPLE IS TOO DRY TO ROLL (INDICATE IF MOISTURE WAS ARRED OR NOT).	E	G D	6*	8	6"	8	Å	(aborr)	LS	Z
0		/	Concrete / gravel base	1	C.C.		_			2.5		 	-
1			ML - Clayey Silt, Stiff, dark gray brown, damp/moist	2						6-7'	ND		
		6.0	damp/moist	2					 		NO		
6.0		6.5	SP - Sand , brown , fine grained	1			<u> </u>		 -	72.0	ND		
6.5	·		SP - Sand, Brown, fine grained CL - Clay, Stiff, brown, moderately plastic,		 -		- -	-	 				
	·	10.0	MIST	 		,			├	-			
10.0			CH-Clay, very stiff, dark brown, plastic,	 			 `_		 				
		12.0	moist	1					-				· · ·
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	NOTES AND MUENTS	3	DEPTH OF BOREHOLE CAVING DEPTH OF FIRST OROUNDWATER ENCOUNTER WATER LEVEL IN OPEN BOREHOLE ON COMPLETION AFTER HOURS COMPLETION DETAILS: Seal Shut with Participal Compact Trophy.	<u></u>	TOPS	IONL THE	CKILESS dors	r or	VISI	E1 5%	ining		
			kote: For each split—spoon sample, record blow counts, n—value, sample recovery leng	TH. AND	SAMPLE :	MTERVA	······	-					
		9)CN-	WA023 SEP 13/99 (SP-17) REVISION 3			·· IENYA]

			STRATIGRAPHY LOG (OVERBURD	EN)							PAGE	/ ne /	/
FB	OTECT :	NUMBER	atorn of Pleasanton 17565-30 DRILLING CONTRACTION <u>ECA</u> DRILLER ORE SURFACE ELEVATION 200' WEATHER (A.M.) Cool			DATE/1 DATE/1 DRILLD	TEMOR S TOMOR CO IC MORT	TARTED OMPLE: THOD	72 TEO /	2-2-0	109.	25	
2760	A'MGRAJ		SAMPLE DESCRIPTION	 _		CRA BO	Pervi	SOR _	<u> 13, 5</u>	iegfr	ied		
II.	PIBRYA	.9	ORDER OF DESCRIPTORS	 -		SAMP	LE D	ETAIL	S		P	C A	G-
F R O M	A T	/m BGS	SOIL TYPE SYMBOL(S) — WAIN COMPONENT(S), (NATURE OF DEPOSIT), SECONDARY COMPONENTS, RELATIVE DENSITY/CONSISTENCY, GRAIN SIZE/PLASTICITY, GRADATION/STRUCTURE, COLOUR, MOISTURE CONTENT, SUPPLEMENTARY DESCRIPTORS	SAMPL	S M M P L L I I	SPL (RD	re(it sp(cord	TRATIO: CORD CON B! N-VAL	LOVE JURS	B I A N M T F E L R E V	D / F 1 D	E A U L I Y C S A I	R I N
0	- t	-	TOTAL TO MAN AUDITORE HAS ADDED OR NOT).	E	N O	6"	8"	8"	a"	A. L	(ppm)	៤ ន	Z
$\frac{\partial}{\partial x}$			Concrete / gravel base	17	C.C.				 	231	ND	 	£
			1	2		<u> </u>		 		47			<u> </u>
	_	5.5	ML-Clayer Solts, stiff, dark gray-brown, downp	3	 				 -	71.5-	NO		
5.5		6.0	St- Sand, brown, fine grained	 					<u> </u>	/2	ND		
6.0			CL- Clay, Stiff, moderately plastic, brown.	<u> </u>				<u> </u>					
		10.0	1110221	 	- 								
0.0			CH- Clay, very stiff, dark brown, plastic,	 						ļ			
		12.0	moist	 				<u> </u>		<u> </u>			
				 									
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4	otes Ond Ethin	φ 6	DEPTH OF BOREHOLE CAVING DEPTH OF FIRST GROUNDWATER ENCOUNTER PATER LEVEL IN OPEN BOREHOLE ON COMPLETION AFTER HOURS XMPLETION DETAILS Seal shut with Partland Comment fremie	· · · · · · · · · · · · · · · · · · ·	FOPS	Octo	KHESS rs 4	P VI	Sual	star	ning		-
	•	H	NAO23 SEP 13/99 (SP-17) REVISION 3	AND	SAMPLE I	iterval							

1.0	JENT KLATION	Plea	STRATIGRAPHY LOG (OVERBURD Saturn of PleasanTon ORE Surface Elevation Zoo' Veather (A.H.) Mild (P.M.)	PEN)		DATE/ DATE/ DEJLI	Timbe s Timbe c NG MB	STARTES XXMPLE XHOD	72 1880 /	2-2-0	Push	20	<u>_</u>
j. n	ATIGRA Nyerva	LS	SAMPLE DESCRIPTION ORDER OF DESCRIPTORS:			SAMP	LE D	ЕТАП	S		P	C A	
F B O	A T	/m BG!	SOIL TYPE SYMBOLIS) — WAIN COMPONENT(S), (NATURE OF DEPOSIT), SECONDARY COMPONENTS, RELATIVE DENSITY/CONSISTENCY, GRAIN SIZE/PLASTICITY, GRADATION/SERUCTURE, COLOUR, MOISTURE CONTENT, SUPPLEMENTARY DESCRIPTORS NOTE: PLASTICITY DETERMINATION REQUIRES THE ADDITION OF MOISTURE IF THE SAMPLE IS TOO DRY TO ROLL (INDICATE IF MOISTURE WAS ADDED OR NOT).	S A W P L R	A M M P R L T I H N O	SPL (RE	RE IT SP CORD	TRATIO CORD CON B N-VAI OVERIE	LOWS	S I A N T P E L R P	, p	H N E A L Y C A L S	Ä
0		7	Concrete / gravel base	<u> </u>	GD	6"	ß	8*	6.	Å L	(ppm)		2 2
7		<u> </u>	CL- Silty Clay, firm, dark gray-brown,	1/_	C.C.	<u> </u>		<u> </u>		33.5	ND		
		G.Z	must	12	 	 				6.5-	NO		<u> </u>
6.2		6.7	SP- Sand brown 2	3		<u> </u>				11.5-	ND	><	
6.7			SP- Sand brown fine grained CL- Clay, stiff, brown, moderately plastic,	_									
	· - · ,	10.0	moist moderately plastic,	↓								··	
10.0		712.0		_									
		12.0	CH- Clay - very stiff, dark brown plastic.	<u> </u>	V		,						
		<u> </u>	111(015)	<u> </u>									
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	otes and Duthte		DEPTH OF BOREHOLE CAVING DEPTH OF FIRST OROUNDWATER ENCOUNTER NATER LEVEL IN OPEN BOREHOLE ON COMPLETION AFTER HOURS COMPLETION DETAILS: 5cal 5hut with Partland Cemical Arennie			$C:C_{i}$	Odoi	01	+ 1/15	vol sh	pining		_
			NATE: FOR EACH SPUT-SPOON SAMPLE, RECORD BLOW COUNTS, N-VALUE, SAMPLE REGOVERY LENGTH	A AMO		izen.				- 177			
		i)GN—\	WA023 SEP 13/99 (SP-17) REVISION 3	4 MIN 1	wunt It	MIERVAL	·						}

F F C	Hoject Hoject Libyt DCATION	RAME S NOMBER Emc. Plea	STRATIGRAPHY LOG (OVERBURD) To furn of Pleasanton 17365-30 DRILLING CONTRACTOR ECA DRILLING			DATE/1 DATE/1 DETLIN	Pome s Pome c NG Mor	TARI <u>ko</u> Somplat Trod	12 ED 1	12-2-0 12-2-0 12-2-0 12-2-0	PAGE 1	15	<u>/</u>
	RATIGRA NTERVA		SAMPLE DESCRIPTION	Π				ЕТАП		-7 (54) 7 7	7 <i>E 4</i>	C A	G
(DEPTI	A A	/m BGS	SECONDARY COMPONENTS, RELATIVE DENSITY/COMSISTENCY, GRAIN SIXE/PLASTICITY, GRADATION/STEUCTURE, COLOUR, MOISTURE CONTEMT, SUPPLIEDENTARY DESCRIPTIORS NOTE: PLASTICITY, DESCRIPTIORS	S A M	A M M P E L T I H	SPL (RE	PENE RE IT SP	TRATTO CORD CON BI N-VAL OVERIE	LOWS N	S I A N T P E L R V	1 1	HHL	R
0	T -	0	SAMPLE IS 100 DRY TO ROLL (INDICATE IF MOISTURE WAS ADDED OR NOT). Concrete / Grave base	E	O D	£"	8,	6*	6"	L	l	Ls	Ž
1	 			1	C.c.					2.5.	ND		
 		4,5	ML - Clayer Silt, firm, gray - brown, domp	2			<u> </u>			4.5	NO		
4.5	 -	17	M) - II	3						1/2	7.2	$\overline{\mathcal{L}}$	
4.7		(e, c	MIC CITY Compact, brown, moist	<u> </u>									•
<u>~</u>		/n n	ML- 511t, Compact, brown, maist ML- Clayer Sill, Stiff, dark brown, moist. CH- Clay, very stiff, dark brownfblack, plastic, maist		<u> </u>								
10.0	<u> </u>	70.0	CH OL										
		(7 12	LIT LIAY, very stiff, dark brownfblack, plastic										
	<u>-</u> -	1	7016157										
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			WESTLI OF BODGLOGE BANKS										
	NOTES AND MUENTS	· c	DEPTH OF BOREHOLE CAVING DEPTH OF FIRST CROUNDWATER ENCOUNTER WATER LEVEL IN OPEN BOREHOLE ON COMPLETION AFTER HOURS COMPLETION DETAILS: Seal Shut with Partland Comparit Trompic	<u> </u>		£ , C ,		ntine	ir V	Core	s taini	—L ing	
		л Э)GN~Ÿ	iote: for each split-spoon sample, redord slow counts, n-value, sample recovery length, va023 SEP 13/89 (SP—17) REVISION 3	AND :	SAMPLE II	NTERVAL							

SECONDARY COMPONENTS, RELATIVE DENSITY/CONSISTENCY, GRAIN SIZE/PLASTICITY, GRADATION/STRUCTURE, COLDUR, GRAIN SIZE/PLASTICITY, GRADATION/STRUCTURE, COLDUR, M P B CROOK N-VALUES P E F C S M NOTE: PLASTICITY DETERMINATION REQUIRES THE ADDITION OF MOISTURE IF THE M T O SAMPLE IS TOO DRY TO ROLL (INDICATE IF MOISTURE WAS ADDED OR NOT). M Concrete/grovel base // Con	PROJECT NUMBER CLIENT <u>ENCO</u> LOCATION <u>Plea</u>	STRATIGRAPHY LOG (OVERBURDE aturn of Pleasanton 17365-30 DHILLING CONTRACTOR ECA DHILLING CONTRACTOR ECA SAUTON CA WEATHER (A.M.) Mild (P.M.)	-	;	Daye/Ti Drullin Cra sui	ome en Gwe co Gwet Pervis	TARTED OMPLET MOD _ SOR	12- 120 /2 Direction 15.	2-02] []] (] Pu<4) or _	
NOTE: PLASHICITY DETERMINATION REQUIRES THE ADDITION OF MOISTURE IF THE BAMPLE IS TOO DRY TO ROLL (INDIDATE IF MOISTURE WAS ADDED OR NOT). Main and a state of the state of	INTERVALS	ORDER OF DESCRIPTORS:	S A	S A	F	PENET	RATIO	М	À X	Д	H N	R
1 Concrete gravel base 1 CC. 3355 ND 1 ML- Clayer silt, Firmite stiff light gray and 2 665 86 Co brown (mottled), damp to moist 3 112 ND 6.8 6.5 SP-Sand, loss, brown, Fine grained, wet CL- Clay, stiff, dark brown, moderately plastic. 10.0 moist CH- Clays very stiff, dark brown black, plastic.	N O A T M T O	NOTE: PLASTICITY DETERMINATION REQUIRES THE ADDITION OF MOISTURE IF THE BAMPLE IS TOO DRY TO ROLL (INDICATE IF MOISTURE WAS ADDED OR NOT).	P	LTIH	(REC	RECO	N-AT	NES S)	EV	1 D	انآا	n S I Z
C.0 brown (mostled) damp to mostl 6.3 C.5 SP-Sand, losse, brown, fine grained, wet CL-Clay, stiff, dark brown, moderally plastic, 10.0 CH-Clay, very stiff, dark brown black, plastic, 17.0 prosst	0 1	Concrete grovel base MI - Clave Sill C. + alce 1	1						33.5	ND		R
6.5 CL-Clay, stiff, dark brown, moderally plastic. 10.0 moist 10.0 cH-Clay; very stiff, dark brown/black, plastic, 17.0 moist	60 65	brown (mattied), damp to movet	3								\geq	
20.0 CH- Clay; very stiff, dark brown/black, plastic,	4.5	CL- Clay, stiff, dark brown, moderally plastic.						_				
72.0 PNOIST	20.0	CH- Clays very stiff, dark brown black, plastic,										
	7.0	p#1015t		<u> </u>								
NOTES AND COMMENTS DEPTH OF BOREHOLE CAMING DEPTH OF FIRST GROUNDWATER ENCOUNTER TOPSOL THICKNESS WATER LEVEL IN OPEN BOREHOLE ON COMPLETION HOURS COMPLETION DETAILS: Seal Shut with Portland Correct France C.C. Completion details: Seal Shut with Portland Correct France NOTE: FOR EACH SPLIT—SPOON SAMPLE, RECORD BLOW COUNTS, N-VALUE, SAMPLE RECOVERY LENGTH, AND SAMPLE INTERVAL	NOTES D AND W COMMENTS C	DEPTH OF BOREHOLE CAVING DEPTH OF FIRST GROUNDWATER ENCOUNTER WATER LEVEL IN OPEN BOREHOLE ON COMPLETION AFTER HOURS COMPLETION DETAILS: Seal 5 hull builts Portland Correct These whose for each split—spoch sample, record blow counts, N-value, sample recovery length	i Allo	TOPS	OIL THIC	KNESS Peter Con	s o	o profes	usued Care	Stain	ing .	

P	нолост ^г	NAME 3	STRATIGRAPHY LOG (OVERBURD) Above of Pleasanton DRILLING CONTRACTOR ECA	EN)						_	PAGE _	OF	<u>/</u>
P C U	ROIBCT LIENT OCATION	NOMBRE Enco Plea	DRILLING CONTRACTOR CCA DRILLING DRILL			DATE/T DATE/T DRILLIN	DAUB S DAUB C C)AUBT	TARTED OMPLET THOD	1 <u>/Z</u> 180 <u>/</u> Dire	DP-9 2-02 2-2-02 cf Po Siegfr	/1232	2	
STI	RATIGRA	РИС	SAMPLE DESCRIPTION	T -		SAMPL				15011	P	T	=
(DEPTH F R	NTERVA IS IN A	/m BGS	SECONDARY COMPONENTS, RELATIVE DENSITY/CONSISTENCY, GRAIN SIZE/PLASTICITY, GRADATION/STRUCTURE, COLOUR, MOISTURE CONTENT, SUPPLEMENTARY DESCRIPTORS	S A M P	S A M P E L T	SPLI (REC	PENET REC T SPC	TRATION CORD CON BI N-VAI	N LOWS MES	S I A M M T P E L R	7	C A H N E A L I Y C S	G R I H
0	T	0	NOTE: PLASTICITY DETERMINATION REQUIRES THE ADDITION OF MOISTURE IF THE SAMPLE IS TOO DRY TO ROLL (RUICATE IF MOISTURE WAS ADDED OR NOT).	E	I H N O G D	8°	6"	8"	8,	E V	l n	A I L S] 2 E
0	<u> </u>	/	Concrete gravel base	1	CC				-	2=	7.1		
	-	(7	ML. Clayey Silt firm to stiff, gray-brown, damp to moist SP-Sand-brown, maist	7]					159		
10	 _	6.2	damp to moist	3						1172			
6.Z		6.7	51-Sand - brown, Marist								1 2		
6.7			ML - Clayey Selt, Stiff, meast	<u> </u>									
		10.0											
10.0			CH - Clay sery stiff, dark brown/black, plastic, maiss			,							
		12.0	plastic, maist									<u>_</u>	
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	notes And Ancents	; ; ;	DEPTH OF BOREHOLE CAVING DEPTH OF FIRST GROUNDWATER ENCOUNTER MATER LEVEL IN OPEN BOREHOLE ON COMPLETION AFTER HOURS COMPLETION DETAILS: Seal Shut with Portland Connent Treinnia NOTE: FOR EACH SPILT-SPOON SAVELE BETTER BETTER DEPTH SOURTE.		TOPS	OIL THIC Co O	KHESS dars Con	őr V	LE SUE	1 5% Core	miss		
		!GN−/	NOTE: FOR EACH SPLIT-SPOON SAMPLE, RECORD BLOW COUNTS, N-VALUE, SAMPLE RECOVERY LENGTH WAD 23 SEP 13/99 (SP-17) REVISION 3	i, AND :	SAMPLE II	TERVAL							

Pi Ci Li Sin	ROJECT	FACE Ple	STRATIGRAPHY LOG (OVERBURD Atom of Pleasanton 17365-30 DRILLING CONTRACTOR ECA DRILLER SHIFFACE ELEVATION 200' WEATHER (A.M.) (P.M.) Warrin ing SAMPLE DESCRIPTION		·	Datr/t Datr/t	ime s ime c g me: Pervi	TARTED COMPLET THOO ISOR		2-2-0	2/12 Push	10	/_
		T O	ORDER OF DESCRIPTORS: SOIL TYPE SYMBOL(S) — MAIN COMPONENT(S), (MATURE OF DEPOSIT), SECONDARY COMPONENTS, RELATIVE DENSITY/CONSISTENCY, GRAIN SIZE/PLASTICITY, GRADATION/STRUCTURE, COLOUR, MOISTURE CONTENT, SUPPLEMENTARY DESCRIPTORS MOYE: PLASTICETY DETERMINATION REQUIRES THE ADDITION OF MOISTURE IF THE SAMPLE IS TOO DRY TO ROLL (INDICATE IF MOISTURE WAS ADDED OR NOT).	F M S	S A M M P B L T I H N O	SPLI (REC	REG T SP CORD REC	TRATION CORD CON BI N-VAI OVERIE	Lows Juks S)	S I A N M T P E L R		H N E A I Y C S A I L S	R A I N S I
Ó	<u> </u>	_i	Concrete / grave / 60se	#	G D	В"	6"	6"	6"	L			Y. E
/	 	 	HI- China Sit Contact	1/	C.C.					2.5.	MP		
j <u></u>		60	ML Clayer Silt, firm to stiff, gray brown, damp to minist SP- Sand, brown, projet	3	 			<u> </u>	ļ	2.5	6.9		
£ 0		6.5	SP- Sand, Brown , moist	- -	 		<u>.</u>	 		//ž	7.4	$\geq \leq$	
6.5			ML- Clayey Sitt, stiff, maist		 			 		 			
		10.0		1	 -			-		 -		 :	
10.0			CH- Clay very 5/18, dark beaun I heart Martin	\					a				
		12.0	CH- Clay, very stiff, dark brown / black, plastic,	1									
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	NOTES AND MMENT	3	DEPTH OF BOREHOLE CAVING DEPTH OF FIRST GROUNDWATER ENCOUNTER WATER LEVEL IN OPEN BOREHOLE ON COMPLETION AFTER HOURS DOMPLETION DETAILS: Seal shut failly text land Cement Tremore		tops //a <c< td=""><td>OIL THE</td><td>KNESS S &</td><td>S - V150</td><td>(Cor</td><td>Sturner</td><td>15</td><td></td><td></td></c<>	OIL THE	KNESS S &	S - V150	(Cor	Sturner	15		
			NOTE: FOR EACH SPLIT-SPOON SAMPLE, RECORD BLOW COUNTS, N-VALUE, SAMPLE RECOVERY LENGT	TH, AND	SAMPLE II	MIERVAL							
		9)GN-	WA023 SEP 13/99 (SP-17) REVISION 3										

			STRATIGRAPHY LOG (OVERBU	RDEN)							PACE	/ OF _	7
P C C	Roject Boyect Lient _ DCATION	HAME _S HUMBER 	CATURE OF PLEASANTER ORDING CONTRACTOR ECA DRULER ORE SURFACE ELEVATION ZOO WEATHER (A.M.) (P.M.) WEATHER	•		DATE/1 DATE/1 DRILLIN	finde s hinde o kg virk	TABTED OMPLET	72 mm / 70	2.2.6	1/30	00	
			SAMPLE DESCRIPTION			CFLA SI	PERV	90R	3,	Siegi	rica		
!	raticra Nyerva	U.S	OBDIE OF DESCRIPTIONS.	-		SAMP	LIE D	ETAII	ន		P	C A	G
F B		T FGS	SOIL TYPE SYMBOL(S) - MAIN COMPONENT(S), (NATURE OF DEPOSIT), SECONDARY COMPONENTS, RELATIVE DENSITY/CONSISTENCY, GRAIN SIZE/PLASTICITY, GRADATION/STRUCTURE, COLDUR, MOISTURE CONTENT, SUPPLEMENTARY DESCRIPTORS NOTE: PLASTICITY DETERMINATION REQUIRES	S A M P L	S A M P E L T I H	SPL (RE	rie Pe Ti Coro	ratio Cord Con Bi N-Vai Overie	Lows	S I M T P E L R		H N E A M L I Y C S A I	A I N B
R	T	0	I	E	G D	6"	В"	6"	6*] _ Å,	I . ⁻ .	LS	2 E
0	 	1	Asphall grant base		C.C.					3.0	1 · · · ·	 	
<u> </u>		15	ML- Clayer Silt, firm gray-brown, damp	2				<u> </u>		66	15.8		 -
<u> 3</u>		<u> </u>	ML- Clayer Sitt, firms gray-brown, damp 5M- Silty Sand, compact, brown, fine grained,	3						8.5	88.2	<u> </u>	
		4.8	paois t	4				<u> </u>	 	13-5	17.7		
4.8		8.0	CL-Clay, soft, dark brown moust CL-Clay, stiff, black, moist, strong organic	5					1	17-	15,0		
8.0		<u> </u>	CL- Clay, stiff, black, moist, strong organich	6	 			_	-	72-			 -
		/2.5	Septic oder	_			*		 	53	MD	 	· .
125		13.2	SP- Sand, look, brown, wet (Flowing)		-				<u> </u>				
13.7			CH. Clay Very stiff to hard black hill	 	 -			-					
		26.0	plasticity, moist	- - -					ļ		·· -	├ 	
260			SM: Solly sand, compact, gray, fine grained,										
		28.0	wet	_	<u>-</u> -								
									· · · · · · · · · · · · · · · · · · ·				
			Groudwater Sample Collected for VOC & TPH-9										
		<u> </u>	analysis	 					 -		<u>.</u>		
			VI (MAI)										
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		 						<u> </u>					
		 -]	T							
	NOTES AND LIMENT		DEPTH OF BOREHOLE CAVING DEPTH OF FIRST GROUNDWATER ENCOUNTER WATER LEVEL IN OPEN BOREHOLE ON COMPLETION 23.0 AFTER HOURS 2. COMPLETION DETAILS Seal shut with Portland Coment Tren	. " .	TOPS	OIL THI	CKHES;	ontil	7000	s Core			
			NOTE: FOR EACH SPLIT-SPOON SAMPLE, RECORD BLOW COUNTS, N-VALUE, SAMPLE RECOVERY LE			<u>-</u>				-			
		GN-	WA023 SEP 13/99 (SP-17) REVISION 3	MG IH, AND	SAMPLE II	NYERVAL					 ,		

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		,	STRATIGRAPHY LOG (OVERBURDI	SM7								,	
Ē	ROIECT	namb <u> </u>	aturn of Pleasanton DRILLING CONTRACTOR ECA 17365-30 DRILLING CONTRACTOR ECA	att	1.4						PAGE	_ or_	<u>/</u> _
F	RAIBCT	NUMBER	17365-30 DRILER			HOLE	DESIG	MOTTAN		DP-12	2		
	OCATION	Ple	SURPACE ELEVATION ZOG			DATE/	TTMC S	TARCE	D	2-6-05	1143	Ò	
1			WEATHER (A.M.)			DRULI	ankie (OMPLE From		2-2-0	Push		
ST	RATIGRA	DETE	SAMPLE DESCRIPTION			CRA S	UPKRV	ISOR _	13.5	Leafre	cd		
	NTERVA	.53	DROKE OF DESCRIPTORS.			SAMP	LE D	ETAII	S		P	CA	_
	IS IN TE	/m BGS	SOIL TYPE SYMBOL(S) — MAIN COMPONENT(S), (NATURE OF DEPOSIT), SECONDARY COMPONENTS, RELATIVE DENSITY/CONSISTENCY, GRAIN SIZE/PLASTICITY, GRADATION/STRUCTURE, COLOUR, MOISTURE CONTENT, SUPPLEMENTARY DESCRIPTORS NOTE: PLASTICITY DETERMINATION DESCRIPTORS	S	S A M M		PENET	TRATTO	M	S I A N	D	H N E A L	Ä
R.			MOISTURE CONTENT, SUPPLEMENTARY DESCRIPTORS	A M P L	PE	/ (KB	CORD	N-AV	11124	M T P E	F	Ο	I N
и	A T	T O	SAMPLE IS TOO DRY TO ROLL (INDICATE IF MOISTURE WAS ADDED OF MOISTURE IF	L E	EI		T	OVERIES)		L R E V	1 0	AILS	ī
0	<u> </u>		Drill directly to 32.0 No Soil Samples Collected Groundwater Sample collected for VOC & TPH-g analysis	1	GD	8'	6"	6	9-	£	(ppm)		Z E
	 	32.0	Collected . Ground water formule collected				<u> </u>	 	 	<u> </u>			
\vdash			VOC & TPH-9 analysis				ļ		<u> </u>				
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	IOTES	D	EPTH OF BOREHOLE CANNG DEGREE OF THE PROPERTY				7						
	and Ments	W	PPTH OF BOREHOLE CAYING DEPTH OF FIRST GROUNDWATER ENCOUNTER ATER LEVEL IN OPEN BOREHOLE ON COMPLETION 28,0		TOPSO	HL THIC	KNESS		L		1_		
		_ N	OTE: FOR EACH SPLIT-SPOON SAMPLE, RECORD BLOW COUNTS, N-VALUE, SAMPLE RECOVERY LENGTH,										
	•	1)GN-W	AD23 SEP 13/99 (SP-17) REVISION 3	AND S	WIPLE IN	TERVAL	·						

Page 1 of 1

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SATURN OF PLEASANTON

PROJECT NUMBER: 17366-30

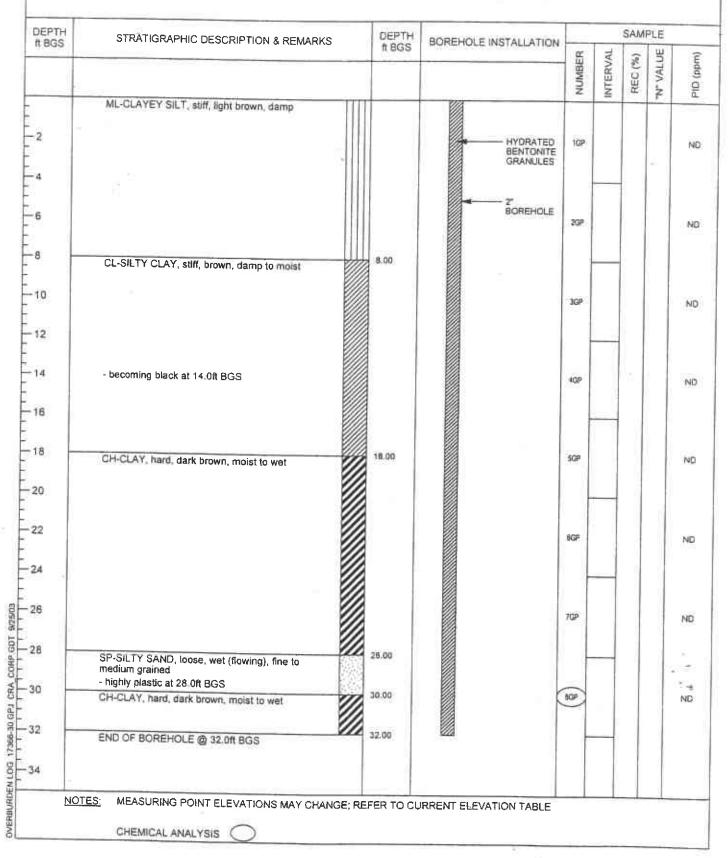
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LOCATION: PLEASANTON, CALIFORNIA

HOLE DESIGNATION: SP-1

DATE COMPLETED: May 13, 2003

DRILLING METHOD: GEOPROBE



PROJECT NAME: SATURN OF PLEASANTON

PROJECT NUMBER: 17366-30

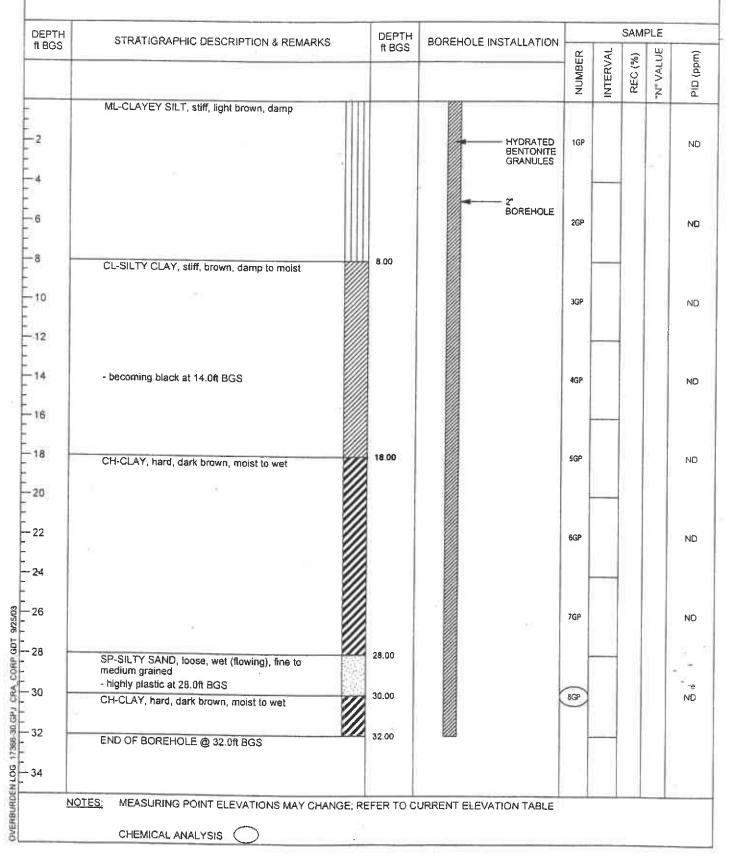
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LOCATION: PLEASANTON, CALIFORNIA

HOLE DESIGNATION: SP-2

DATE COMPLETED: May 13, 2003

DRILLING METHOD: GEOPROBE



Page 1 of 1

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SATURN OF PLEASANTON

PROJECT NUMBER: 17366-30

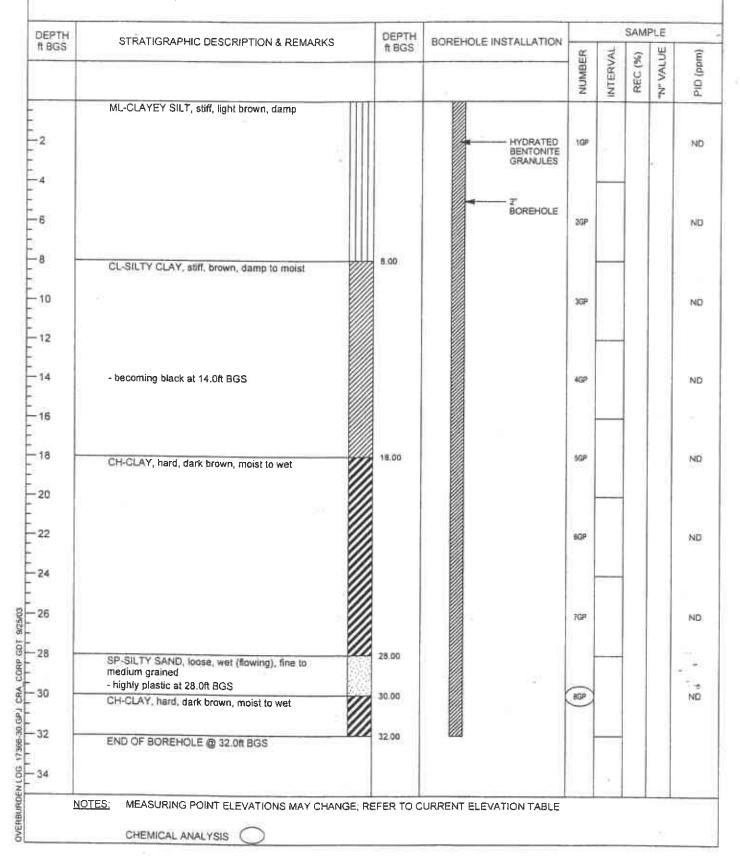
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HOLE DESIGNATION: SP-3

DATE COMPLETED: May 13, 2003

DRILLING METHOD: GEOPROBE



PROJECT NAME: SATURN OF PLEASANTON

PROJECT NUMBER: 17366-30

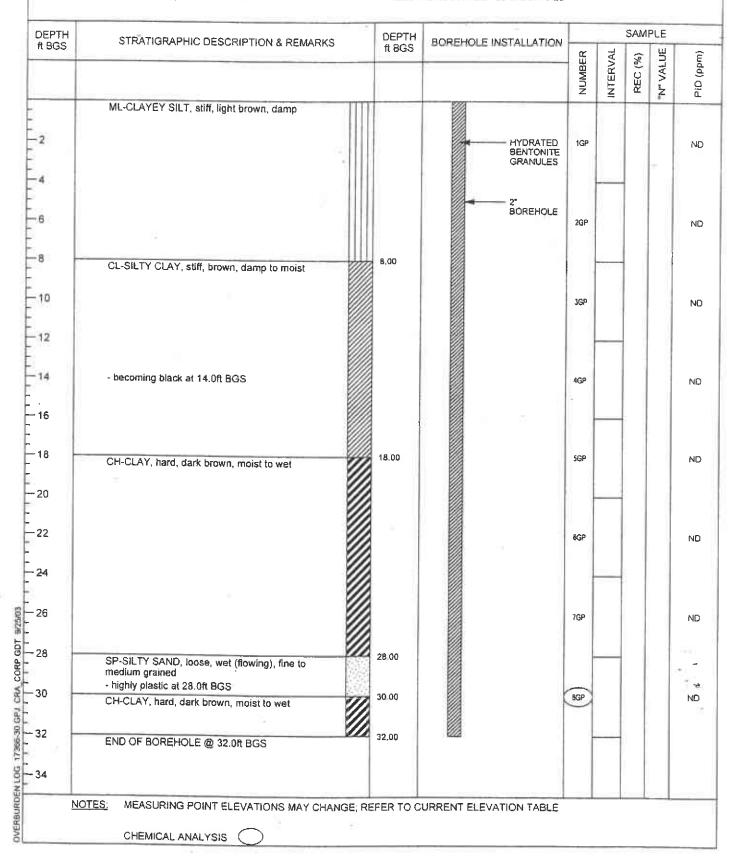
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LOCATION: PLEASANTON, CALIFORNIA

HOLE DESIGNATION: SP-4

DATE COMPLETED: May 13, 2003

DRILLING METHOD: GEOPROBE



PROJECT NAME: SATURN OF PLEASANTON

PROJECT NUMBER: 17366-30

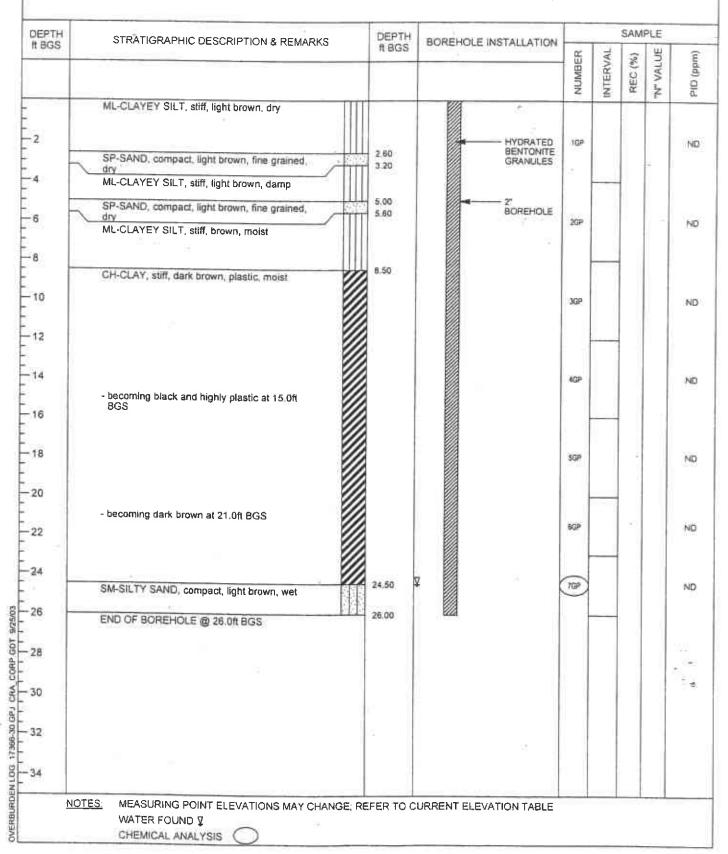
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LOCATION: PLEASANTON, CALIFORNIA

HOLE DESIGNATION: SP-5

DATE COMPLETED: May 28, 2003

DRILLING METHOD: GEOPROBE



PROJECT NAME: SATURN OF PLEASANTON

PROJECT NUMBER: 17366-30

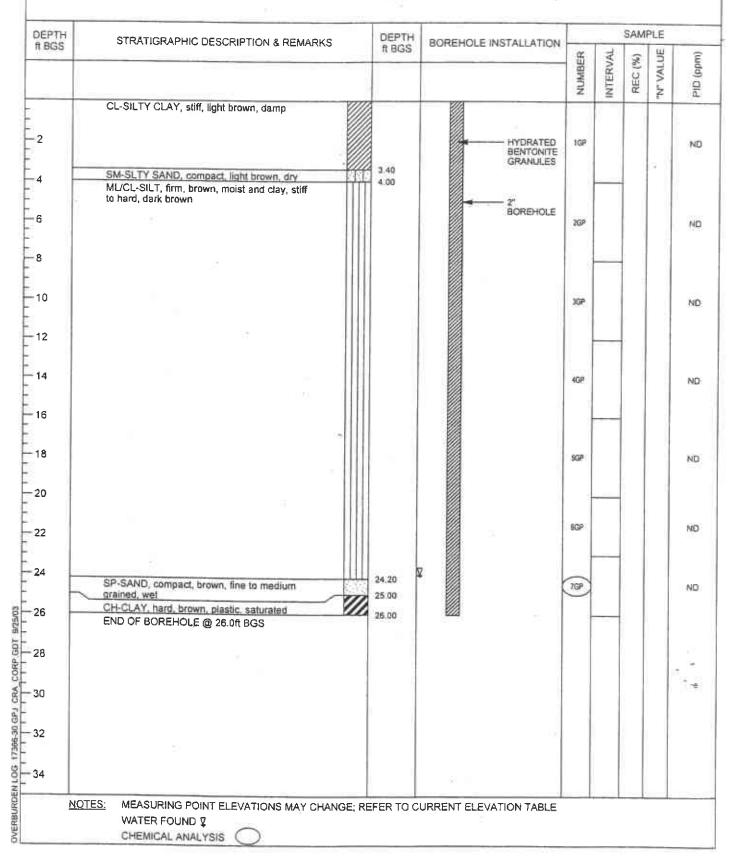
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LOCATION: PLEASANTON, CALIFORNIA

HOLE DESIGNATION: SP-6

DATE COMPLETED: May 28, 2003

DRILLING METHOD: GEOPROBE



Page 1 of 1

PROJECT NAME: SATURN OF PLEASANTON

PROJECT NUMBER: 17366-30

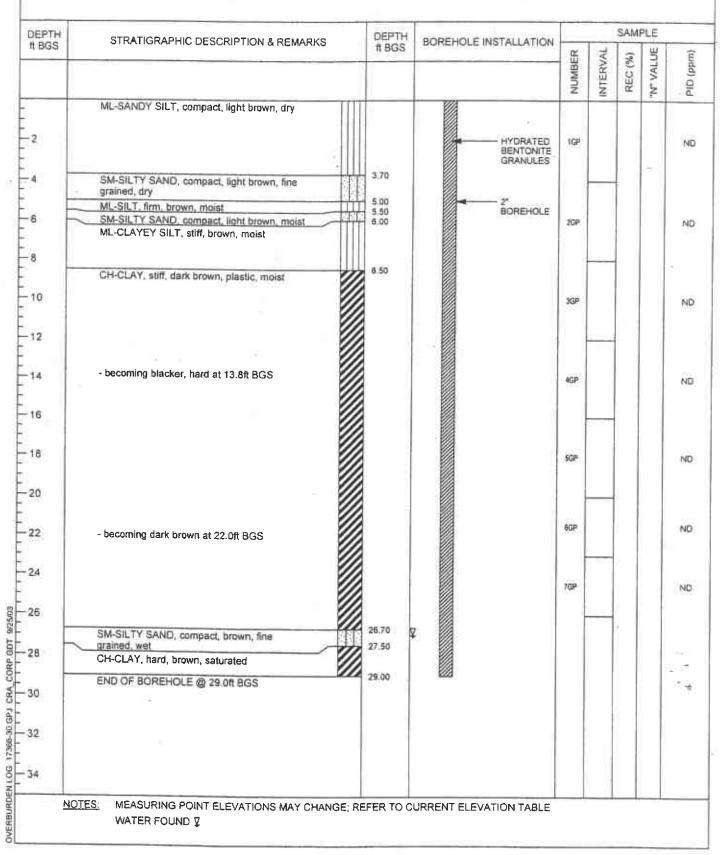
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LOCATION: PLEASANTON, CALIFORNIA

HOLE DESIGNATION: SP-7

DATE COMPLETED: May 28, 2003

DRILLING METHOD: GEOPROBE



PROJECT NAME: SATURN OF PLEASANTON

PROJECT NUMBER: 17366-30

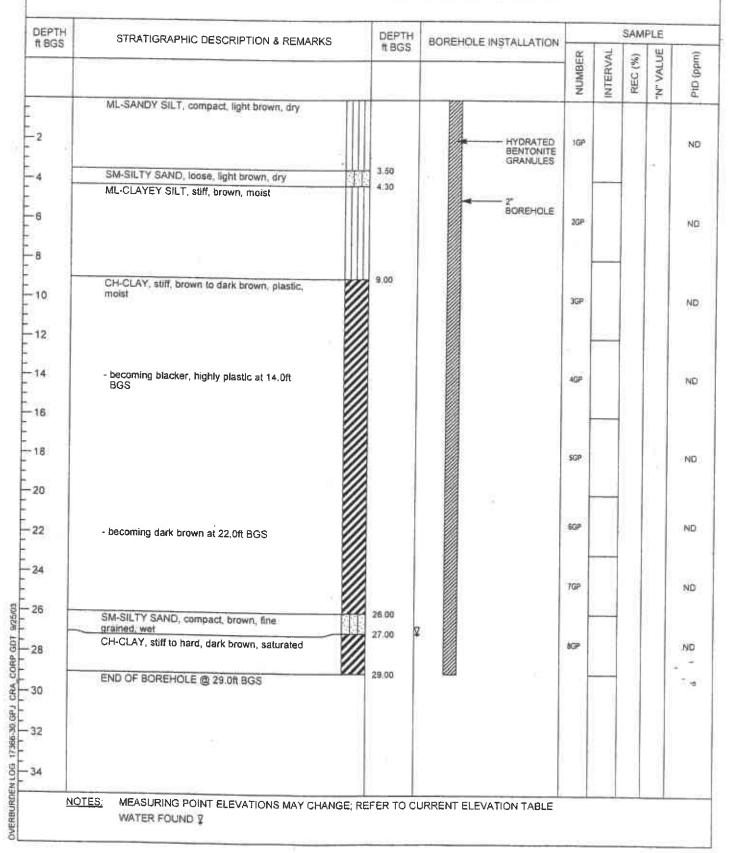
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LOCATION: PLEASANTON, CALIFORNIA

HOLE DESIGNATION: SP-8

DATE COMPLETED: May 28, 2003

DRILLING METHOD: GEOPROBE



APPENDIX C

TCL VOC Method Detection Limits

APPENDIX C

TCL VOC WATER REPORT LIMITS AND MDLs SATURN OF PLEASANTON 4340 ROSEWOOD BOULEVARD PLEASANTON, CALIFORNIA

<u>#</u>	Compound	RL	Units	MDL	Units
11 -	Acetone	10	ug/L	0.74	ug/L
196	Benzene	1	ug/L	0.22	ug/L
323	Bromodichloromethane	î	ug/L	0.14	ug/L
340	Bromoform	1	ug/L	0.17	ug/L
343	Bromomethane	1	ug/L	0.36	ug/L
372	2-Butanone	10	ug/L	0.39	ug/L
459	Carbon disulfide	10	ug/L	0.28	ug/L
463	Carbon tetrachloride	i	ug/L ug/L	0.19	ug/L
521	Chlorobenzene	i	ug/L ug/L	0.13	ug/L
535	Dibromochloromethane	1	ug/L	0.19	ug/L
550	Chloroethane	1	ug/L	0.19	ug/L
569	Chloroform	1	ug/L ug/L	0.16	ug/L
574	Chloromethane	1	ug/L	0.14	ug/L
669	Cyclohexane	1	ug/L ug/L	0.14	ug/L ug/L
539	1,2-Dibromo-3-chloropropane	2	ug/L ug/L	0.12	ug/L
870	1,2-Dibromoethane	1	ug/L ug/L	0.28	
904	1,2-Dichlorobenzene	l	-	0.24	ug/L
907	1,3-Dichlorobenzene	1	ug/L	0.18	ug/L
910	1,4-Dichlorobenzene	1	ug/L	0.18	ug/L
924	Dichlorodifluoromethane	1	ug/L	0.22	ug/L
933	1,1-Dichloroethane		ug/L		ug/L
936	1,2-Dichloroethane	1 1	ug/L	0.21	ug/L
948	cis-1,2-Dichloroethene	1	ug/L	0.16	ug/L
950	trans-1,2-Dichloroethene	1	ug/L	0.21	ug/L
943	1,I-Dichloroethene		ug/L	0.16	ug/L
986	1,2-Dichloropropane	I	ug/L	0.18	ug/L
998	cis-1,3-Dichloropropene	! 1	ug/L	0.15	ug/L
1000	trans-1,3-Dichloropropene	1	ug/L	0.12	ug/L
1332	Ethylbenzene	1	ug/L	0.17	ug/L
1515	2-Hexanone		ug/L	0.19	ug/L
1578	Isopropylbenzene	10 1	ug/L	0.35	ug/L
1774	Methyl acetate	10	ug/L	0.15	ug/L
1799	Methylcyclohexane	10	ug/L	0.52	ug/L
1811	Methylene chloride	1	ug/L	0.5	ug/L
1845	4-Methyl-2-pentanone	10	ug/L	0.19 0.32	ug/L
2772	Methyl tert-butyl ether	5	ug/L		ug/L
2355	Styrene	1	ug/L	0.18	ug/L
2439	1,1,2,2-Tetrachloroethane		ug/L	0.13	ug/L
2445	Tetrachloroethene	1	ug/L	0.22	ug/L
2489	Toluene	1	ug/L	0.19	ug/L
2515		1	ug/L	0.17	ug/L
2518	1,2,4-Trichlorobenzene	l 1	ug/L	0.19	ug/L
	1,1,1-Trichloroethane	1	ug/L	0.21	ug/L
2522	1,1,2-Trichloroethane	1	ug/L	0.22	ug/L
2525 1428	Trichloroethene	1	ug/L	0.28	ug/L
	Trichlorofluoromethane	1	ug/L	0.16	ug/L
2566	1,1,2-Trichloro-1,2,2-trifluoroethane	l	ug/L	0.26	ug/L
2613	Vinyl chloride	1	ug/L	0.21	ug/L
2627	Xylenes (total)	2	ug/L	0.44	ug/L