FOURTH QUARTER 1992
GROUNDWATER MONITORING

AT

FORMER ISLAND GUN CLUB
500 MAITLAND DRIVE
ALAMEDA CALIFORNIA

Project No. F3125.31
February 1993

RESNA
42501 Albrae Street
Fremont, California 94538
(510) 440-3300

RESNA
Working to Restore Nature

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January 19, 1993
RESNA Job No. F3125.32

Harbor Bay Isle Associates
1141 Harbor Bay Parkway
Alameda, California 94501

Attention: Mr. Aidan Barry

Subject: Letter Report on Fourth Quarter 1992 Groundwater Monitoring at Former Island Gun Club, 500 Maitland Drive, Alameda, California.

Dear Mr. Barry:

This letter summarizes the results of the fourth quarter 1992 groundwater sampling and analysis performed by RESNA Industries, Inc. (RESNA) at the subject site (see Plate 1).

BACKGROUND

The property is located on the northwest corner of Maitland Drive and Harbor Bay Parkway on the Bay Farm Island portion of Alameda. The 5-acre site was used as a shooting club [redacted] to approximately 1986. When the range opened, the site had standing water for most of the non-summer months. In the early 1960's, fill material was imported and added to the property. The fill material was derived from excess soil from various construction sites (RESNA Proposed Work Plan, March 24, 1992).

In September 1992, RESNA conducted a Phase II Soil and Groundwater Investigation at the site. The investigation included drilling three exploratory borings and installing three groundwater monitoring wells in the borings. The well locations are shown on Plate 2.

In order to evaluate gradient and lead, copper, and PNA concentrations in groundwater, [redacted] monitoring and sampling of the three wells was performed by RESNA for the fourth quarter 1992. This report summarizes the groundwater monitoring results for October, November, and December, 1992.

SAMPLING PROCEDURES

A representative of RESNA conducted monthly monitoring and sampling of monitoring wells MW-1, MW-2, and MW-3 on September 16, October 16, and November 30, 1992. Due to an error in the request for analysis for the November sampling, the three wells were sampled again on December 22, 1992. Purge water and equipment rinseate were placed in Department of Transportation (DOT)-approved 55-gallon drums and stored on-site, pending laboratory analysis.

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Prior to sampling, the wells were purged of approximately 3 to 4 well volumes. Groundwater samples were collected using a clean teflon bailer and poured into the proper laboratory-supplied containers, labeled with a unique sample number, placed in a chilled cooler, entered onto a chain-of-custody form, and transported to a state-certified laboratory for analysis. RESNA's Groundwater Sampling Protocol is included in Appendix A. A summary of subjective evaluations and laboratory analytical results are included in Table 1.

LABORATORY ANALYSES

Groundwater samples were analyzed at RESNA Environmental Laboratories, a state-certified laboratory in Fremont, California. All groundwater samples were analyzed for total dissolved solids (TDS), copper, and lead using both the solid threshold limit concentration (STLC) and the total threshold limit concentration (TTLC) methods, and for polynuclear aromatics (PNA's) using EPA Method 8270. The analytical reports and chain-of-custody records are included in Appendix B.

Summary of Analytical Results

A summary of groundwater sampling data is included in Table 1.

The laboratory analytical results indicate that polynuclear aromatics were not detected above laboratory detection limits in any of the sampling events.

Lead was detected in groundwater samples from MW-1 in September at 0.0[illegible] milligrams per liter (mg/L), using the total threshold limit concentration (TTLC) method. Lead was not detected at or above laboratory detection limits in samples from MW-1 in October or November using either the soluble threshold limit concentration (STLC) method or the TTLC method. In samples from MW-2, lead was detected in September and October at 0.0[illegible] mg/L and 0.0061 mg/L, respectively, using the TTLC method. Lead was not detected in samples from MW-2 using the STLC method in September or October, and was not detected in November using either method. Samples from MW-3 contained lead using the STLC method in September, October, and November, at 0.0[illegible] mg/L, 0.0[illegible] mg/L, and 0.00[illegible] mg/L, respectively. Lead was not detected in samples from MW-3 using the STLC method in any of the sampling events.

Copper was detected in samples from MW-1 in September and October at 0.027 milligrams per liter (mg/L) and 0.026 mg/L, respectively, using the total threshold limit concentration (TTLC) method, and in October at 0.022 mg/L, using the soluble threshold limit concentration (STLC) method. Copper was not detected in samples from MW-1 in November using either method. Groundwater samples from MW-2 contained copper in September at 0.016 mg/L (STLC) and 0.12 mg/L (TTLC), and in October at 0.033 mg/L (STLC) and 0.038 mg/L (TTLC). Copper was not detected in samples from MW-2 at or above laboratory detection limits in November using either method. Groundwater samples from MW-3 contained copper at 0.31 mg/L (TTLC) in September. Copper was detected in samples from MW-3 in October at 0.027 mg/L (STLC) and 0.033 mg/L (TTLC), and in November at 0.056 mg/L (STLC) and 0.01 mg/L (TTLC).

Groundwater samples collected in December were not analyzed for copper or lead using either method.

Total dissolved solids (TDS) were detected in MW-1 in September, October, and December, at 2,200 milligrams per liter (mg/L), 2,200 mg/L, and 1,200 mg/L, respectively. Groundwater samples from MW-2 contained TDS at 4,800 mg/L, 4,800 mg/L, and 4,100 mg/L in September,

October, and December, respectively. TDS were detected in samples from MW-3 in September, October, and December, at 3,000 mg/L, 1,600 mg/L, and 1,400 mg/L, respectively. Groundwater samples collected in November were not analyzed for TDS.

Groundwater Gradient and Flow Direction

A summary of groundwater monitoring data and subjective evaluations is included in Table 1. Plates 3 through 6 show the groundwater elevation contours based on the water level data in Table 1. Groundwater flow has fluctuated from north to southeast to northwest from September to December. This could be due in part to tidal influences. The site is approximately 1 1/2 miles from the San Francisco Bay. The approximate gradients for September, October, November, and December were 0.005, 0.004, 0.001, and 0.003, respectively.

Discussion

The laboratory reports indicate non-detectable levels of polynuclear aromatics in the groundwater beneath the site.

The levels of total dissolved solids (TDS) in the groundwater at the site range from 1,200 mg/L to 4,800 mg/L. The United States Environmental Protection Agency (U.S. EPA) has not established guidelines for water quality goal with respect to TDS.

The established guidelines for lead and copper as reported in the California Ocean Plan Numerical Water Quality Objectives, established by the U.S. EPA (Marshack, CRWQCB-CVR, Water Quality Goals, September 1991) are 8 parts per billion (2,000 parts per million, or milligrams per liter) and 3 parts per billion (3,000 parts per million, or milligrams per liter), respectively. These levels are established as a six-month median for Marine Aquatic Life Protection. The reported levels of copper and lead in the groundwater at the subject site exceed the above guidelines set by the U.S. EPA.

Reporting Requirements

A copy of this report will be forwarded to the following agencies in a timely manner.

Alameda County Health Care Services
Department of Environmental Health
Hazardous Materials Program
80 Swan Way, Room 200
Oakland, California 94621
Attention: Mr. Kevin Tinsley

City of Alameda
Department of Public Works
2263 Santa Clara Avenue
Alameda, California 94501
Attention: Mr. Robert L. Warnick, P.E.

San Francisco Bay
Regional Water Quality Control Board
2101 Webster Street, Room 500
Oakland, California 94612
Attention: Mr. Lester Feldman

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Limitations

The discussion presented in this report are based on the following:

1. Observations by field personnel,
2. Results of laboratory analyses performed by a state-certified laboratory, and
3. Our understanding of the regulations of the State of California and the County of Alameda.

It is possible that variations in the soil or groundwater conditions at the site could exist beyond the points explored in this investigation. Also, changes in the groundwater conditions could occur at some time in the future because of variations in rainfall, temperature, regional water use, or other factors.

The services performed by RESNA have been conducted in a manner consistent with the level of care and skill ordinarily exercised by members of our profession currently practicing under similar conditions in the Alameda County area. Please note that contamination of soil and/or groundwater must be reported to the appropriate agencies in a timely manner. No other warranty, expressed or implied, is made.

RESNA includes in this report chemical analytical data from a state-certified laboratory. The analytical results are performed according to procedures suggested by the U.S. EPA and the State of California.

If you have any questions regarding this report, please do not hesitate to call.

Sincerely,

RESNA Industries Inc.

Sheryl Fontaine
Staff Geologist

Gary Pischke, C.E.G. 1501
Project Manager

REGISTERED GEOLOGIST
GARY PISCHKE
No. 1501
CERTIFIED
ENGINEERING
GEOLOGIST
STATE OF CALIFORNIA

SF/GP/sw

Harbor Bay Isle Associates
Project No. F3125.32

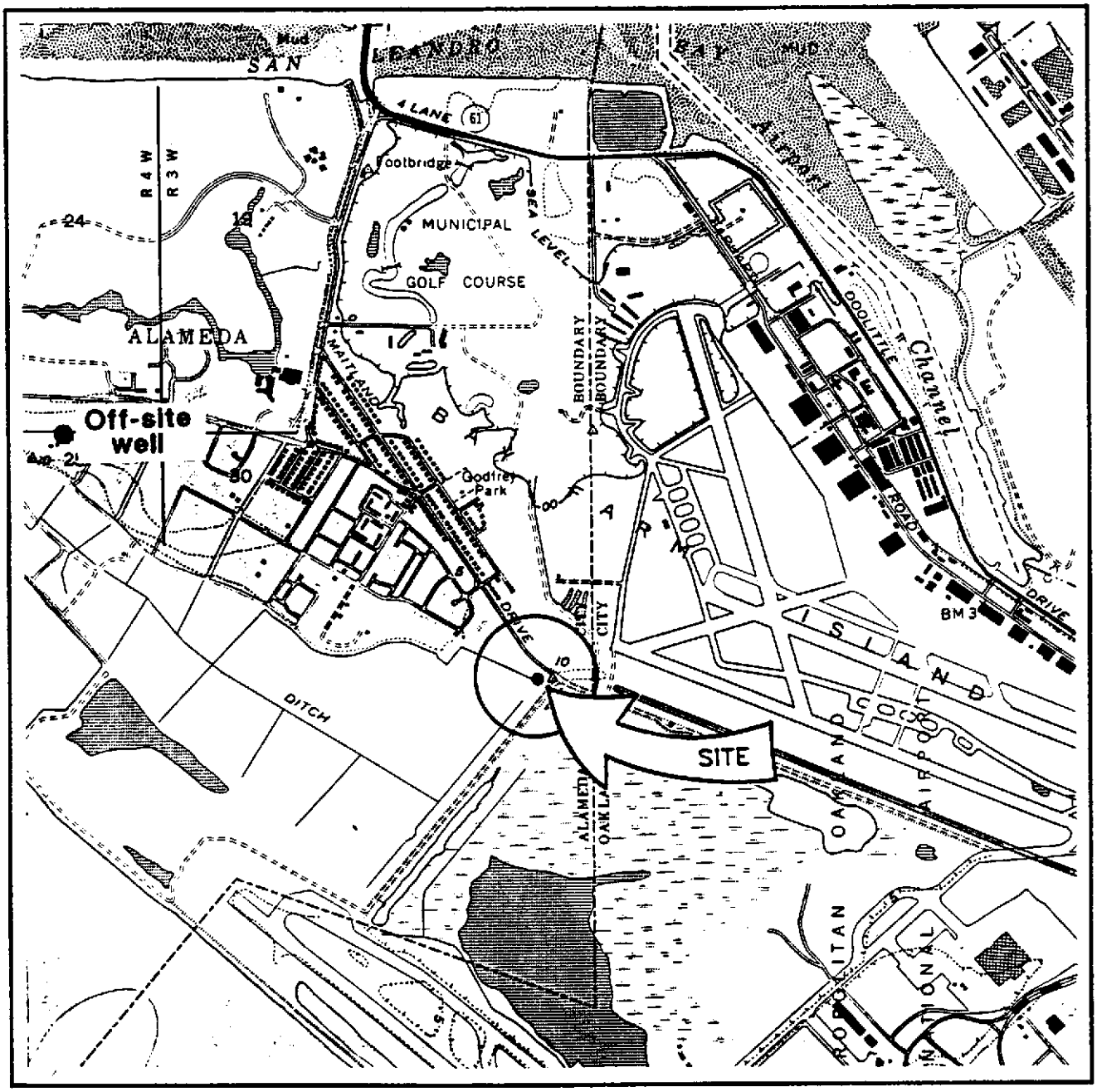
January 19, 1993

TABLE 1

SUMMARY GROUNDWATER MONITORING AND SAMPLING DATA

Well No.	Sample Date	Well Elevation (MSL)	Depth to Water (ft.)	Groundwater Elevation (MSL)	TDS (mg/L)	STLC(Pb) (mg/L)	STLC(c) (mg/L)	TTLC(pb) (mg/L)	TTLC(c) (mg/L)	PNA's (µg/L)
MW-1	9/16/92	5.05	5.18	-0.13	2,200	<0.005	<0.01	0.013	0.027	ND
	10/16/92		5.38	-0.33	2,200	<0.005	0.022	<0.005	0.026	ND
	11/30/92		3.24	1.81	NR	<0.01	<0.01	<0.01	<0.01	NR
	12/22/92		3.50	1.55	1,200	NR	NR	NR	NR	ND
MW-2	9/16/92	5.60	5.52	0.08	4,800	<0.005	0.016	0.036	0.12	ND
	10/16/92		5.72	-0.12	4,800	<0.005	0.033	0.0061	0.0038	ND
	11/30/92		4.10	1.50	NR	<0.01	<0.01	<0.01	<0.01	NR
	12/22/92		3.45	2.15	4,100	NR	NR	NR	NR	ND
MW-3	9/16/92	4.76	4.23	0.53	3,000	<0.005	<0.1	0.087	0.31	ND
	10/16/92		4.40	0.36	1,600	<0.005	0.027	<0.005	0.033	ND
	11/30/92		3.17	1.59	NR	<0.01	0.056	0.034	0.01	NR
	12/22/92		3.00	1.76	1,400	NR	NR	NR	NR	ND

MSL = Elevation in feet above mean sea level
TDS = Total dissolved solids
PNA = Polynuclear aromatics
mg/L = Milligrams per liter
µg/L = Micrograms per litter
STLC = Soluble threshold limit concentration
TTLC = Total threshold limit concentration
Pb = Lead
Cu = Copper
NR = Analysis not requested
ND = Not detected. Refer to laboratory results for applicable detection limit
<0.01 = Not detected. Number following <indicates applicable laboratory detection limit.



SOURCE: U.S. GEOLOGICAL SURVEY
7.5–MINUTE QUADRANGLE
SAN LEANDRO, CALIFORNIA
PHOTOREVISED 1980

N

APPROXIMATE SCALE

0 1000 2000 4000

FEET

RESNA	SITE LOCATION MAP	PLATE
	FORMER ISLAND GUN CLUB SITE	1
	500 MAITLAND DRIVE	
PROJECT NO. F3125.32	ALAMEDA, CALIFORNIA	

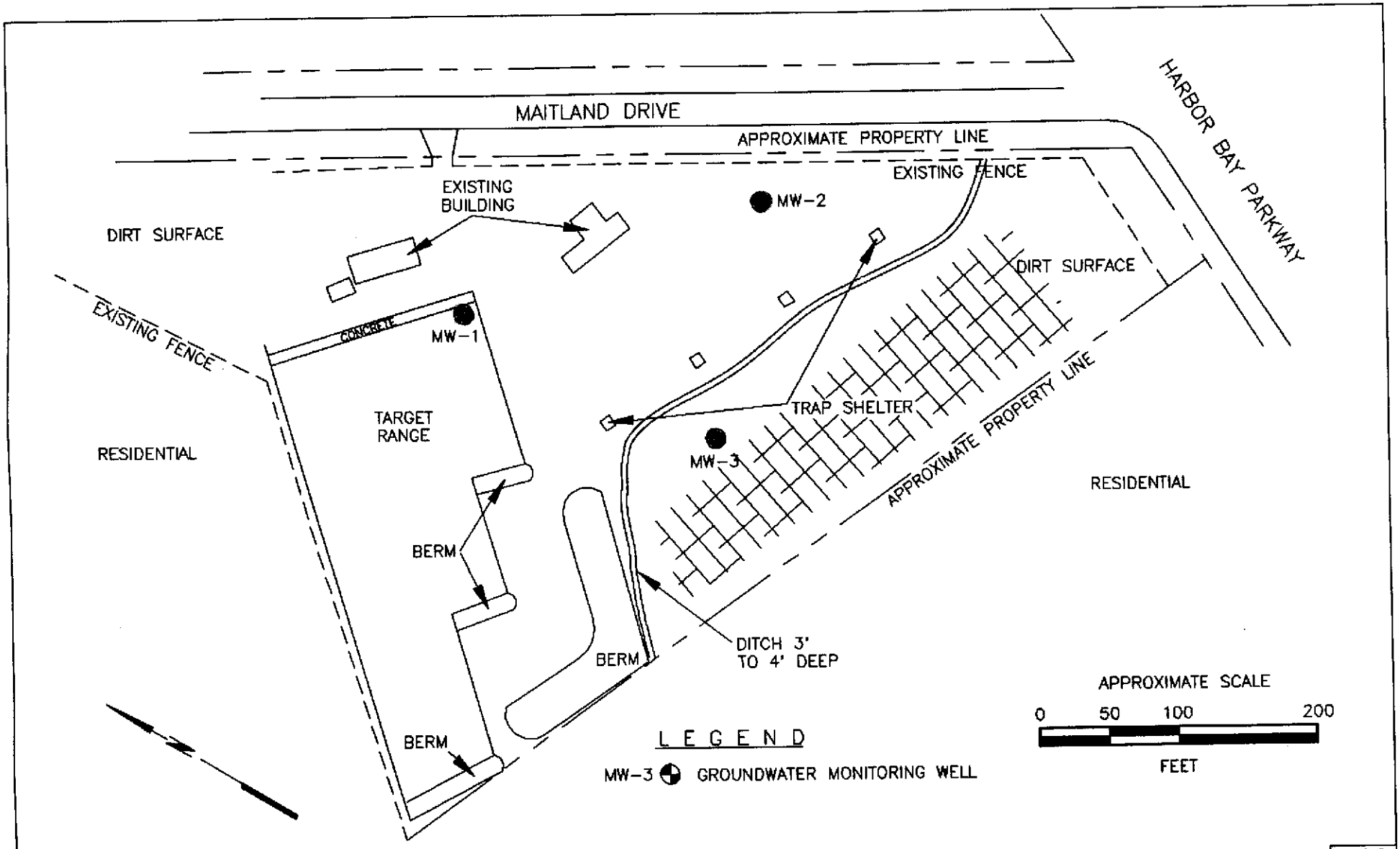


PLATE 2	SITE PLAN FORMER ISLAND GUN CLUB SITE 500 MAITLAND DRIVE ALAMEDA, CALIFORNIA	RESNA PROJECT NO. F3125.32

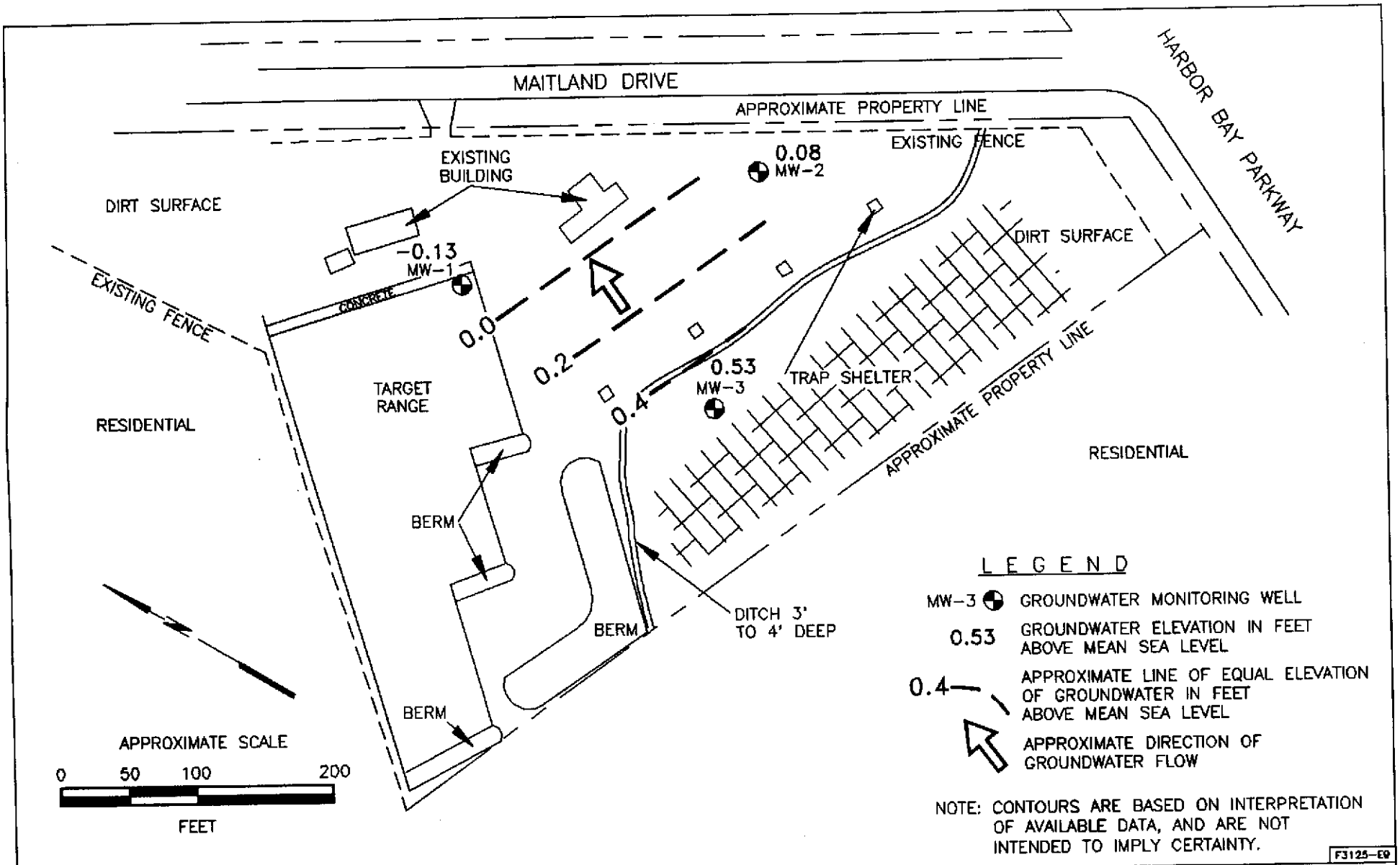


PLATE	GROUNDWATER POTENTIOMETRIC SURFACE MAP (9/16/92)	RESNA
3	FORMER ISLAND GUN CLUB SITE 500 MAITLAND DRIVE ALAMEDA, CALIFORNIA	PROJECT NO. F3125.32

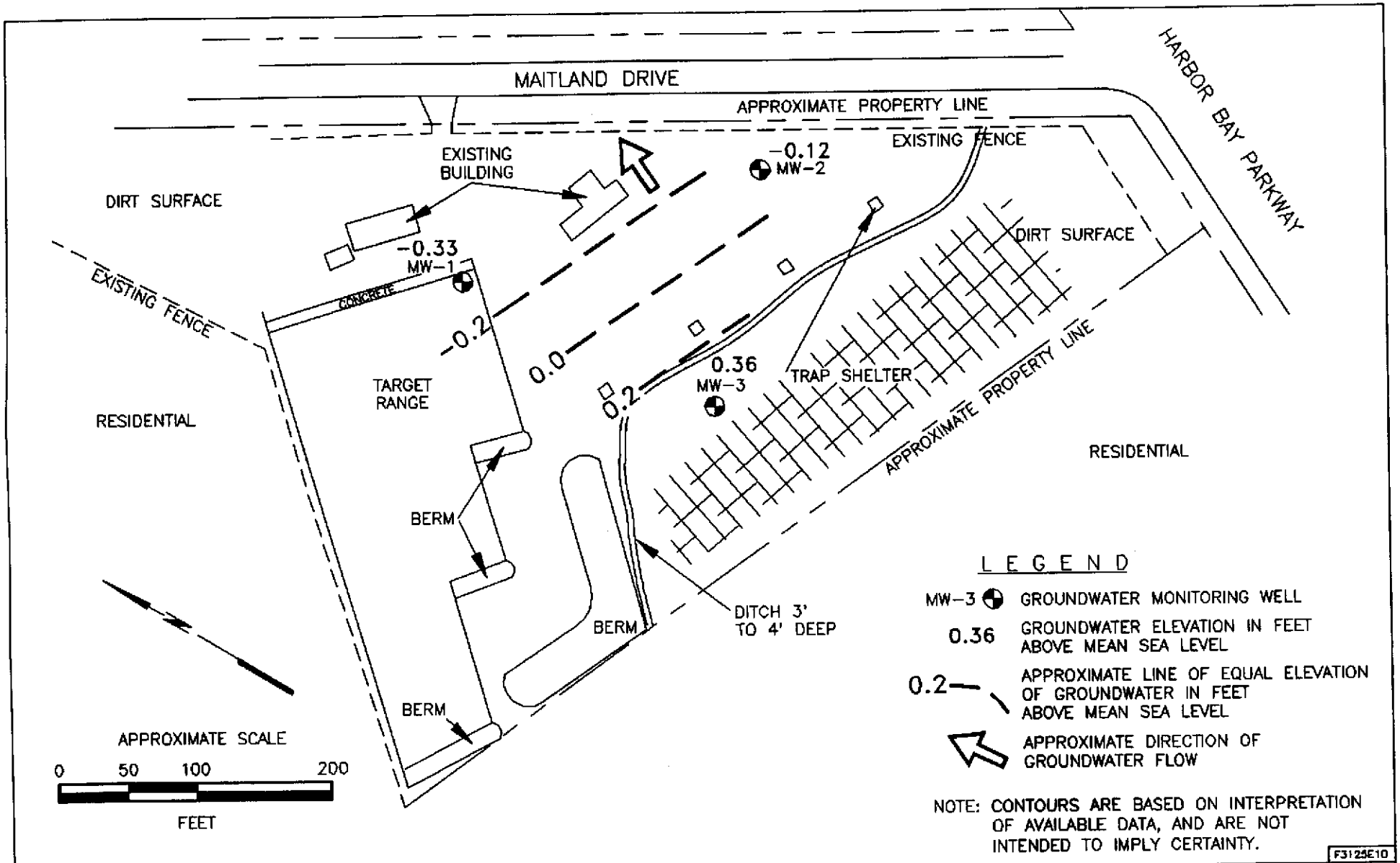


PLATE	GROUNDWATER POTENTIOMETRIC SURFACE MAP (10/16/92)	RESNA
4	FORMER ISLAND GUN CLUB SITE	
	500 MAITLAND DRIVE	
	ALAMEDA, CALIFORNIA	PROJECT NO. F3125.32

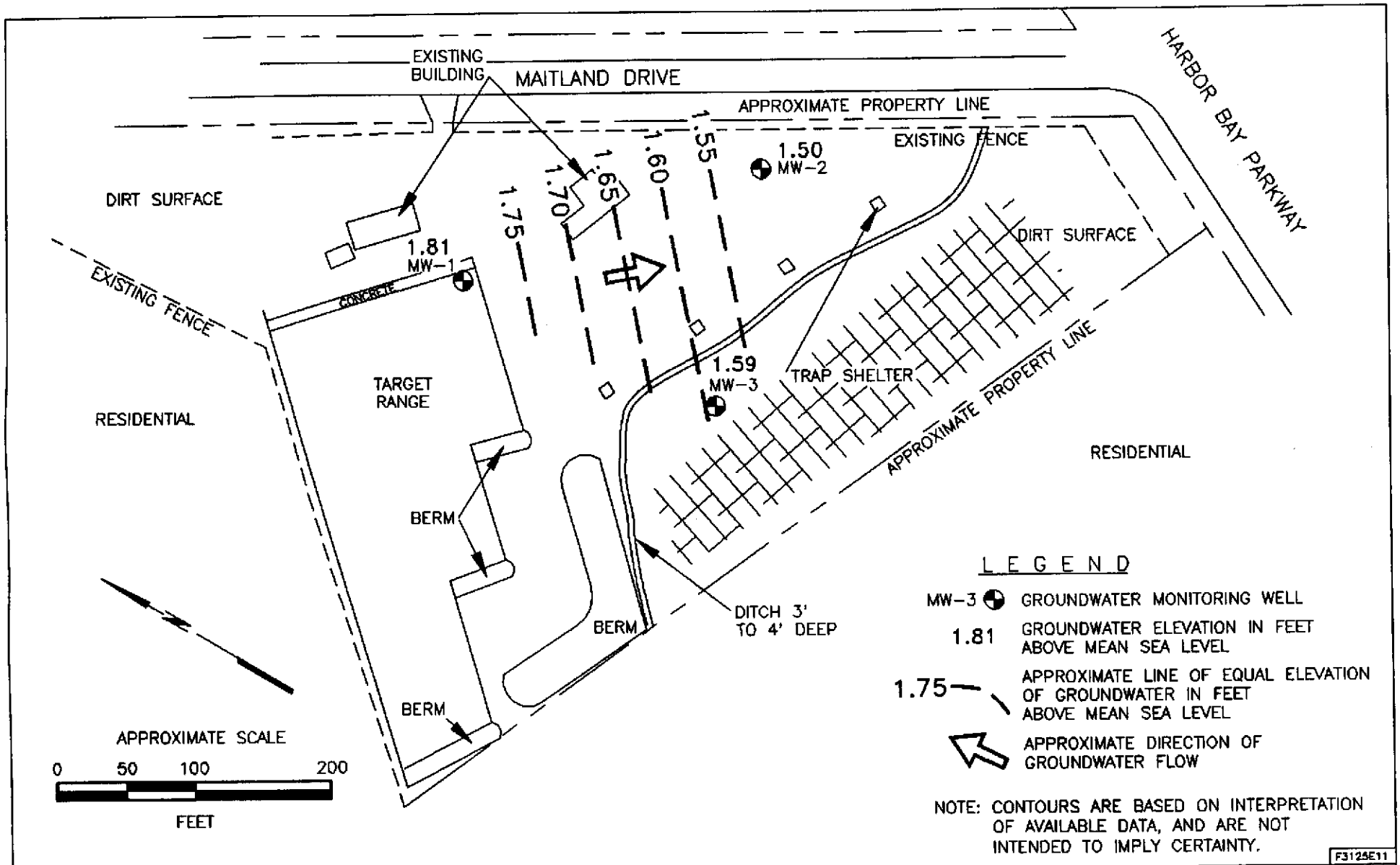


PLATE	GROUNDWATER POTENTIOMETRIC SURFACE MAP (11/30/92)	RESNA
5	FORMER ISLAND GUN CLUB SITE	
	500 MAITLAND DRIVE	
	ALAMEDA, CALIFORNIA	PROJECT NO. F3125.32

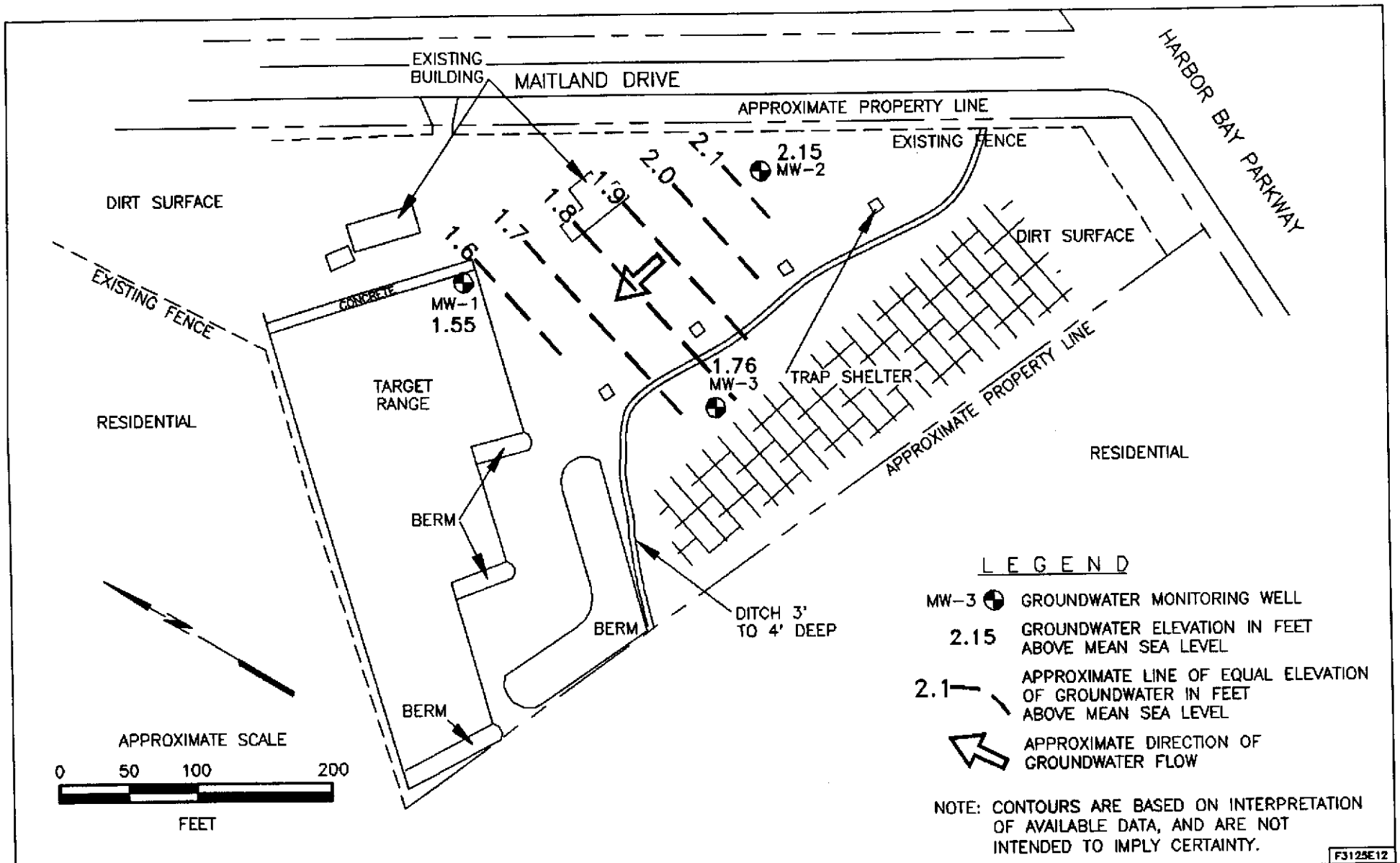


PLATE	GROUNDWATER POTENTIOMETRIC SURFACE MAP (12/22/92)	RESNA
6	FORMER ISLAND GUN CLUB SITE	
	500 MAITLAND DRIVE	
	ALAMEDA, CALIFORNIA	PROJECT NO. F3125.32

APPENDIX A

GROUNDWATER SAMPLING PROTOCOL

RESNA

Groundwater Sampling Protocol

GROUNDWATER SAMPLING PROTOCOL

Sampling of groundwater is performed by RESNA Industries, Inc. sampling technicians. Monitoring well sampling procedures are summarized as follows:

1. Wells are sampled in approximate order of increasing contamination.
2. Proceed to first well with clean and decontaminated equipment.
3. Measurements depths to liquid surface(s) in the well, and total depth of monitoring well. Note presence of sediment.
4. Field check for presence of floating product; measure apparent thickness.
5. Calculate minimum purge volume (well volumes) then purge well.
6. Monitor groundwater for temperature, pH, and specific conductance during purging. Following stabilization of parameters and removal of minimum volume, allow well to recover adequately.
7. Collect samples using Environmental Protection Agency (EPA) approved sample collection devices, i.e., teflon or stainless steel bailers or pumps.
8. Transfer samples into laboratory-supplied EPA-approved containers.
9. Label samples and log onto chain-of-custody form.
10. Store samples in a chilled ice chest for shipment to a state-certified analytical laboratory.
11. Secure wellhead.
12. Decontaminate equipment prior to sampling next well.

Equipment Cleaning and Decontamination

All water samples are placed in precleaned laboratory-supplied bottles. Sample bottles and caps remain sealed until actual usage at the site. All equipment which comes in contact with the interior of the well or groundwater is thoroughly cleaned with either a steam cleaner, a trisodium phosphate (TSP) solution or an Alconox™ solution and rinsed with deionized or distilled water before use at the site. This cleaning procedure is followed between each well sampled. If a teflon cord is used, the cord is cleaned. If a nylon or cotton cord is used, a new cord is used in each well.

All equipment blanks are collected prior to sampling. The blanks are analyzed periodically to ensure proper cleaning procedures are used.

Water Level Measurements

Depth to groundwater is measured in each well using a sealed sampling tape or scaled electric sounder prior to purging or sampling. If the well is known or suspected of containing free-phase petroleum hydrocarbons, either an optical interface probe or a bailer is used to measure the hydrocarbon thickness. Measurements are collected and recorded to the nearest 0.01 foot. Each monitoring well's total depth will be measured; this will allow a relative judgement of well sedimentation and need for redevelopment to be made.

Bailer Sheen Check

If no measurable free-phase petroleum hydrocarbons are detected, a clear acrylic bailer is used to determine the presence of a sheen. The color of the water and any film or obvious odor are recorded.

Groundwater Sampling

Prior to groundwater sampling, each well is purged of "standing" groundwater. Either a bailer, hand pump, or submersible pump is used to purge the well. The amount of purging is dependent on the well hydraulics. Samples will be collected when temperature, pH, and specific conductance stabilize and a minimum of three well-casing volumes of water have been removed. Field measurements will be taken after purging each well volume. Physical parameter measurements (temperature, pH, and specific conductance) are closely monitored throughout the well purging process and are used as

indicators for assessing sufficient purging. The purging parameters are measured to observe stabilization to a range of values typical for that aquifer and well. Stable field parameters are recognized as indicative of groundwater aquifer chemistry entering the well. Specific conductance (conductivity) meters are read to the nearest ±10 umhos/cm and are calibrated daily. pH meters are read to the nearest ±0.1 pH units and are calibrated daily. Temperature is read to the nearest 0.1 °F. Calibration of physical parameter meters will follow manufacturer's specifications. Collected field data during purging activities will be entered on the Well Sampling Field Data Sheet.

Following purging, the well is allowed to recharge prior to sampling. When recovery to 80% of the static water level is estimated or observed to exceed two hours, a sample will be collected when sufficient volume is available to fill all sample containers. The well will be purged slowly enough to minimize the volatilization of organic contaminants during well recharge.

In wells where free-phase hydrocarbons are detected, the free-phase portion will be bailed from the well and its volume recorded. If free-phase hydrocarbons persist through bailing, a groundwater sample will not be collected.

Volatile organic groundwater samples are collected so that air passage through the sample does not occur or is minimal (to prevent volatiles from being stripped from the samples). Sample bottles are filled by slowly running the sample down the side of the bottle until there is a positive convex meniscus over the mouth of the bottle. The teflon side of the septum (in cap) is then positioned against the meniscus, the cap is screwed on tightly, the sample is inverted, and the bottle is lightly tapped. If a bubble is evident, the cap is removed, more sample is added, and the bottle is resealed.

Chain-of-Custody

Groundwater sample containers are labeled with a unique sample number, location, and date of collection. All samples are logged into a chain-of-custody form and placed in a secure, chilled ice chest for shipment to a laboratory certified by the State of California.

Sample Storage

Groundwater samples collected in the field are stored in an ice chest cooled to approximately 4 °C while in transit to the office or analytical laboratory. Samples are stored in a refrigerator overnight and during weekends and holidays. The refrigerator is set to 4 °C and is locked with access controlled by a designated sample custodian.

Quality Assurance/Quality Control Objectives

The sampling and analysis procedures employed by RESNA for groundwater sampling and monitoring follow regulatory guidance for quality assurance/quality control (QA/QC). Quality assurance objectives have been established to develop and implement procedures for obtaining and evaluating water quality and field data in an accurate, precise, and complete manner. In this way, sampling procedures and field measurements provide information that is comparable and representative of actual field conditions. Quality control (QC) is maintained by site-specific field protocols and by requiring the analytical laboratory to perform internal and external QC checks. The goal is to provide data that are accurate, precise, complete, comparable, and representative. The definitions as developed by overseeing federal, state, and local agency guidance documents for accuracy, precision, completeness, comparability, and representativeness are:

- **Accuracy** — the degree of agreement of a measurement with an accepted reference or true value.
- **Precision** — a measure of agreement among individual measurements under similar conditions. Usually expressed in terms of the standard deviation.
- **Completeness** — the amount of valid data obtained from a measurement system compared to the amount that was expected to meet the project data goals.
- **Comparability** — express the confidence with which one data set can be compared to another.
- **Representativeness** — a sample or group of samples that reflect the characteristics of the media at the sampling point.

Laboratory and field handling procedures of samples may be monitored by including QC samples for analysis. QC samples may include any combination of the following:

- **Trip Blanks:** Trip blanks are sent to the project site, and travel with project site samples. Trip blanks are **not** opened, and are returned from a project site with the project site samples for analysis.

- **Field Blank:** Prepared in the field using organic-free water. Field blanks accompany project site samples to the laboratory and are analyzed for specific chemical parameters unique to the project site where they were prepared.

- **Duplicates:** Duplicated samples are collected "second samples" from a selected well and project site. They are collected as either split samples or second-run samples collected from the same well.

- **Equipment Blank:** Periodic QC samples collected from field equipment rinseate to verify decontamination procedures.

The number and types of QC samples are determined and analyzed on a project-specific basis.

Shallow Groundwater Survey

A shallow groundwater survey employs reconnaissance field sampling and chemical analysis for rapid plume mapping. A state-certified mobile laboratory may be used. The subcontractor would sample for analysis at locations marked by the RESNA field geologist. The thin-diameter probes from which groundwater is collected are advanced to the water bearing stratum and a groundwater sample is withdrawn to the surface, and analyzed immediately thereafter. Probe holes are backfilled with a grout slurry or as the local permitting agency requires. The contractor will report the details and results sampling, purging, and chemical analysis to RESNA. RESNA considers this type of shallow probe mapping (together with shallow groundwater sampling) to be a reconnaissance technique only.

APPENDIX B

SAMPLING LOGS, LABORATORY REPORTS AND CHAIN-OF-CUSTODY RECORDS

RESNA

SAMPLING LOG

Job Name: Poric ~~Oakland~~ Alameda Date: 9-16-92

Job No.: F3125.0031 Sampled by: R Sutherland

Phase: Q Laboratory: Resna

Wells Secure: ☒ Yes ☐ No If no, then comment:

Drums at Site: Full 2 Empty

Well No.	Depth to Water (ft)	Well Depth (ft)	Time (W*L)	Purge Volume (gal)	F° Temp. ~~set~~	Cond. (umho/cm)	pH	Observations
				1.4 3	66.7	3360	7.44	NO odor
				4.5	66.7	3370	7.43	NO Sheen
1 MW-1	5.18	13.90	8:00	6	67.0	3060	7.48	Cloudy/silty
				1.4 3	69.3	6840	7.19	NO odor
				4.5	68.4	6860	7.12	NO Sheen
2 MW-2	5.52	13.93	8:10	6	68.6	6900	7.08	Cloudy
				1.5 3	73.7	2730	7.81	NO odor
				4.5	69.8	2610	7.66	NO Sheen
3 MW-3	4.23	13.25	8:20	6	68.7	2540	7.58	Cloudy

42501 Albrae Street
Fremont, California 94538
(510) 440-3300

RESNA

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

PROJECT NO.	PROJECT NAME/SITE	P.O. #
F3125.00	Doric Construction 500 Maitland dr, Alameda	

SAMPLERS (SIGN) _____ (PRINT) Robin Sutherland

SAMPLE IDENTIFICATION	DATE	TIME	COMP	GRAB	PRES. USED	ICED	NO. CONTAINERS	SAMPLE TYPE	BTEX (602/8020)	TPHg (8015)	TPHd (8015)	TOG 418.1/5520	601/8010	624/8240	625/8270	TTLC (Cd,Pb)	STLC (Cd,Pb)	TDS	REMARKS
MW-1	9-16-92	9:40		X		Y	5	W							X	X	X	X	Filter & Preserve if Neccissary
MW-2	"	10:55		X		"	5	"							X	X	X	X	
MW-3	"	12:10		X		"	5	"							X	X	X	X	

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
Robin Sutherland	9-18-92	9:30	Roberto Arcilla
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
RELINQUISHED BY:	DATE	TIME	RECEIVED BY LABORATORY:

LABORATORY: Resna

REQUESTED TURNAROUND TIME: Normal

RECEIPT CONDITION:

PLEASE SEND RESULTS TO:
~~Robert Arcilla~~
42501 Albrae St
Fremont, CA 94538
Cheryl Fontain

PROJECT MANAGER:

ANALYSIS REPORT

1020lab.frm

Attention: Sheryl Fontaine
RESNA
42501 Albrae St.
Fremont, CA 94538

Project: 19513-L,F3125.00
Doric Construction

Date Sampled: 09-16-92
Date Received: 09-18-92
TDS Analyzed: 09-24-92

SAMPLE Laboratory Identification	TDS(mg/L)
MW-1 W1209458	2200
MW-2 W1209459	4800
MW-3 W1209460	3000

ANALYTICAL PROCEDURES

TDS is measured according to Standard Method 160.2

Laboratory Representative

September 30, 1992
Date Reported

ANALYSIS REPORT

Attention: Sheryl Fontaine
RESNA
42501 Albrae St
Fremont, CA 94538
Project: 19513-L, F3125.00
Sample ID: MW-1
Lab ID: W1209458

Date Sampled: 09-16-92
Date Received: 09-18-92
Date Analyzed: 09-22-92
Matrix: Water

EPA METHOD 8270

COMPOUND NAME	ug/L	MDL	COMPOUND NAME	ug/L	MDL
Acenaphthene	ND	2.0	1,3-Dichlorbenzene	ND	2.0
Acenaphthylene	ND	2.0	1,4-Dichlorobenzene	ND	2.0
Anthracene	ND	2.0	1,2-Dichlorobenzene	ND	2.0
Benzidine	ND	5	3,3-dichlorobenzidine	ND	10
Benzoic Acid	ND	2.0	2,4-dichlorophenol	ND	2.0
Benzo(a)anthracene	ND	2.0	Diethyl phthalate	ND	2.0
Benzo(b)fluoranthene	ND	2.0	2,4-Dimethylphenol	ND	2.0
Benzo(k)fluoranthene	ND	2.0	Dimethyl phthalate	ND	2.0
Benzo(g,h,i)perylene	ND	2.0	4,6-Dinitro-2-methylphenol	ND	10
Benzo(a)pyrene	ND	2.0	2,4-Dinitrophenol	ND	10
Benzyl alcohol	ND	2.0	2,4-Dinitrotoluene	ND	2.0
Bis(2-chloroethoxy)methane	ND	2.0	2,6-Dinitrotoluene	ND	2.0
Bis(2-chloroethyl)ether	ND	2.0	Di-N-octyl phthalate	ND	2.0
Bis(2-chloroisopropyl)ether	ND	2.0	Fluoranthene	ND	2.0
Bis(2-ethylhexyl)phthalate	ND	10	Fluorene	ND	2.0
4-Bromophenyl phenyl ether	ND	2.0	Hexachlorobenzene	ND	2.0
Butyl benzyl phthalate	ND	2.0	Hexachlorobutadiene	ND	2.0
4-Chloroaniline	ND	2.0	Hexachlorocyclopentadiene	ND	2.0
2-Chloronaphthalene	ND	2.0	Hexachloroethane	ND	2.0
4-Chloro-3-methylphenol	ND	2.0	Indeno(1,2,3-cd)pyrene	ND	2.0
2-Chlorophenol	ND	2.0	Isophorone	ND	2.0
4-Chlorophenyl phenyl ether	ND	2.0	2-Methylnaphthalene	ND	2.0
Chrysene	ND	2.0	2-Methylphenol	ND	2.0
Dibenz(a,h)anthracene	ND	2.0	4-Methylphenol	ND	2.0
Dibenzofuran	ND	2.0	Naphthalene	ND	2.0
Di-N-butyl phthlate	ND	10	2-Nitroaniline	ND	2.0

ppb = parts per billion = ug/L = micrograms per Liter
ND = Not detected. Compound(s) may be present at concentrations below the detection limit.
NR = Analysis not requested.

Laboratory Representative

September 30, 1992
Date Reported

Environmental Laboratories

RESNA
Working To Restore Nature

ANALYSIS REPORT

Attention: Sheryl Fontaine
RESNA
42501 Albrae St.
Fremont, CA 94538
Project: 19513-L, F3125.00
Sample ID: MW-1
Lab ID: W1209458

Date Sampled: 09-16-92
Date Received: 09-18-92
Date Analyzed: 09-22-92
Matrix: Water

EPA METHOD 8270

COMPOUND NAME	ug/L	MDL
3-Nitroaniline	ND	2.0
4-Nitroaniline	ND	2.0
Nitrobenzene	ND	2.0
2-Nitrophenol	ND	2.0
4-Nitrophenol	ND	10
N-Nitrosodiphenylamine	ND	2.0
N-Nitroso-di-N-propylamine	ND	2.0
Pentachlorophenol	ND	10
Phenanthrene	ND	2.0
Phenol	ND	2.0
Pyrene	ND	2.0
1,2,4-Trichlorobenzene	ND	2.0
2,4,5-Trichlorophenol	ND	2.0
2,4,6-Trichlorophenol	ND	2.0

ppb = parts per billion = ug/L = micrograms per Liter
ND = Not detected. Compound(s) may be present at concentrations below the detection limit.
NR = Analysis not requested.

WM Tague
Laboratory Representative

September 30, 1992
Date Reported

Environmental Laboratories

RESNA
Working To Restore Nature

ANALYSIS REPORT

Attention: Sheryl Fontaine
RESNA
42501 Albrae St
Fremont, CA 94538
Project: 19513-L, F3125.00
Sample ID: MW-2
Lab ID: W1209459

Date Sampled: 09-16-92
Date Received: 09-18-92
Date Analyzed: 09-22-92
Matrix: Water

EPA METHOD 8270

COMPOUND NAME	ug/L	MDL	COMPOUND NAME	ug/L	MDL
Acenaphthene	ND	2.0	1,3-Dichlorbenzene	ND	2.0
Acenaphthylene	ND	2.0	1,4-Dichlorobenzene	ND	2.0
Anthracene	ND	2.0	1,2-Dichlorobenzene	ND	2.0
Benzidine	ND	5	3,3-dichlorobenzidine	ND	10
Benzoic Acid	ND	2.0	2,4-dichlorophenol	ND	2.0
Benzo(a)anthracene	ND	2.0	Diethyl phthalate	ND	2.0
Benzo(b)fluoranthene	ND	2.0	2,4-Dimethylphenol	ND	2.0
Benzo(k)fluoranthene	ND	2.0	Dimethyl phthalate	ND	2.0
Benzo(g,h,i)perylene	ND	2.0	4,6-Dinitro-2-methylphenol	ND	10
Benzo(a)pyrene	ND	2.0	2,4-Dinitrophenol	ND	10
Benzyl alcohol	ND	2.0	2,4-Dinitrotoluene	ND	2.0
Bis(2-chloroethoxy)methane	ND	2.0	2,6-Dinitrotoluene	ND	2.0
Bis(2-chloroethyl)ether	ND	2.0	Di-N-octyl phthalate	ND	2.0
Bis(2-chloroisopropyl)ether	ND	2.0	Fluoranthene	ND	2.0
Bis(2-ethylhexyl)phthalate	ND	10	Fluorene	ND	2.0
4-Bromophenyl phenyl ether	ND	2.0	Hexachlorobenzene	ND	2.0
Butyl benzyl phthalate	ND	2.0	Hexachlorobutadiene	ND	2.0
4-Chloroaniline	ND	2.0	Hexachlorocyclopentadiene	ND	2.0
2-Chloronaphthalene	ND	2.0	Hexachloroethane	ND	2.0
4-Chloro-3-methylphenol	ND	2.0	Indeno(1,2,3-cd)pyrene	ND	2.0
2-Chlorophenol	ND	2.0	Isophorone	ND	2.0
4-Chlorophenyl phenyl ether	ND	2.0	2-Methylnaphthalene	ND	2.0
Chrysene	ND	2.0	2-Methylphenol	ND	2.0
Dibenz(a,h)anthracene	ND	2.0	4-Methylphenol	ND	2.0
Dibenzofuran	ND	2.0	Naphthalene	ND	2.0
Di-N-butyl phthlate	ND	10	2-Nitroaniline	ND	2.0

ppb = parts per billion = ug/L = micrograms per Liter
ND = Not detected. Compound(s) may be present at concentrations below the detection limit.
NR = Analysis not requested.

WM Tague
Laboratory Representative

September 30, 1992
Date Reported

Environmental Laboratories

RESNA
Working To Restore Nature

ANALYSIS REPORT

Attention: Sheryl Fontaine
RESNA
42501 Albrae St.
Fremont, CA 94538
Project: 19513-L, F3125.00
Sample ID: MW-2
Lab ID: W1209459

Date Sampled: 09-16-92
Date Received: 09-18-92
Date Analyzed: 09-22-92
Matrix: Water

EPA METHOD 8270

COMPOUND NAME	ug/L	MDL
3-Nitroaniline	ND	2.0
4-Nitroaniline	ND	2.0
Nitrobenzene	ND	2.0
2-Nitrophenol	ND	2.0
4-Nitrophenol	ND	10
N-Nitrosodiphenylamine	ND	2.0
N-Nitroso-di-N-propylamine	ND	2.0
Pentachlorophenol	ND	10
Phenanthrene	ND	2.0
Phenol	ND	2.0
Pyrene	ND	2.0
1,2,4-Trichlorobenzene	ND	2.0
2,4,5-Trichlorophenol	ND	2.0
2,4,6-Trichlorophenol	ND	2.0

ppb = parts per billion = ug/L = micrograms per Liter
ND = Not detected. Compound(s) may be present at concentrations below the detection limit.
NR = Analysis not requested.

Laboratory Representative

September 30, 1992
Date Reported

Environmental Laboratories

RESNA
Working To Restore Nature

ANALYSIS REPORT

Attention: Sheryl Fontaine
RESNA
42501 Albrae St
Fremont, CA 94538
Project: 19513-L, F3125.00
Sample ID: MW-3
Lab ID: W1209460

Date Sampled: 09-16-92
Date Received: 09-18-92
Date Analyzed: 09-22-92
Matrix: Water

EPA METHOD 8270

COMPOUND NAME	ug/L	MDL	COMPOUND NAME	ug/L	MDL
Acenaphthene	ND	2.0	1,3-Dichlorbenzene	ND	2.0
Acenaphthylene	ND	2.0	1,4-Dichlorobenzene	ND	2.0
Anthracene	ND	2.0	1,2-Dichlorobenzene	ND	2.0
Benzidine	ND	5	3,3-dichlorobenzidine	ND	10
Benzoic Acid	ND	2.0	2,4-dichlorophenol	ND	2.0
Benzo(a)anthracene	ND	2.0	Diethyl phthalate	ND	2.0
Benzo(b)fluoranthene	ND	2.0	2,4-Dimethylphenol	ND	2.0
Benzo(k)fluoranthene	ND	2.0	Dimethyl phthalate	ND	2.0
Benzo(g,h,i)perylene	ND	2.0	4,6-Dinitro-2-methylphenol	ND	10
Benzo(a)pyrene	ND	2.0	2,4-Dinitrophenol	ND	10
Benzyl alcohol	ND	2.0	2,4-Dinitrotoluene	ND	2.0
Bis(2-chloroethoxy)methane	ND	2.0	2,6-Dinitrotoluene	ND	2.0
Bis(2-chloroethyl)ether	ND	2.0	Di-N-octyl phthalate	ND	2.0
Bis(2-chloroisopropyl)ether	ND	2.0	Fluoranthene	ND	2.0
Bis(2-ethylhexyl)phthalate	ND	10	Fluorene	ND	2.0
4-Bromophenyl phenyl ether	ND	2.0	Hexachlorobenzene	ND	2.0
Butyl benzyl phthalate	ND	2.0	Hexachlorobutadiene	ND	2.0
4-Chloroaniline	ND	2.0	Hexachlorocyclopentadiene	ND	2.0
2-Chloronaphthalene	ND	2.0	Hexachloroethane	ND	2.0
4-Chloro-3-methylphenol	ND	2.0	Indeno(1,2,3-cd)pyrene	ND	2.0
2-Chlorophenol	ND	2.0	Isophorone	ND	2.0
4-Chlorophenyl phenyl ether	ND	2.0	2-Methylnaphthalene	ND	2.0
Chrysene	ND	2.0	2-Methylphenol	ND	2.0
Dibenz(a,h)anthracene	ND	2.0	4-Methylphenol	ND	2.0
Dibenzofuran	ND	2.0	Naphthalene	ND	2.0
Di-N-butyl phthlate	ND	10	2-Nitroaniline	ND	2.0

ppb = parts per billion = ug/L = micrograms per Liter
ND = Not detected. Compound(s) may be present at concentrations below the detection limit.
NR = Analysis not requested.

Laboratory Representative

September 30, 1992
Date Reported

Environmental Laboratories

RESNA
Working To Restore Nature

ANALYSIS REPORT

Attention: Sheryl Fontaine
RESNA
42501 Albrae St.
Fremont, CA 94538

Project: 19513-L, F3125.00
Sample ID: MW-3
Lab ID: W1209460

Date Sampled: 09-16-92
Date Received: 09-18-92
Date Analyzed: 09-22-92
Matrix: Water

EPA METHOD 8270

COMPOUND NAME	ug/L	MDL
3-Nitroaniline	ND	2.0
4-Nitroaniline	ND	2.0
Nitrobenzene	ND	2.0
2-Nitrophenol	ND	2.0
4-Nitrophenol	ND	10
N-Nitrosodiphenylamine	ND	2.0
N-Nitroso-di-N-propylamine	ND	2.0
Pentachlorophenol	ND	10
Phenanthrene	ND	2.0
Phenol	ND	2.0
Pyrene	ND	2.0
1,2,4-Trichlorobenzene	ND	2.0
2,4,5-Trichlorophenol	ND	2.0
2,4,6-Trichlorophenol	ND	2.0

ppb = parts per billion = ug/L = micrograms per Liter
ND = Not detected. Compound(s) may be present at concentrations below the detection limit.
NR = Analysis not requested.

Laboratory Representative

September 30, 1992
Date Reported

ANALYSIS REPORT

1020lab.frm

Attention: Sheryl Fontaine
RESNA
42501 Albrae St
Fremont, CA 94538
Project: 19513-L, F3125.00
Lab ID: QF3125917.GMS

Date Sampled: 09-16-92
Date Received: 09-18-92
Date Analyzed: 09-22-92
Matrix: Water

EPA METHOD 8270 QA/QC SHEET
UNITS ug/L

COMPOUND NAME	MS	MSD	RPD	Limits
4CHLORO-3-METHYLPHENOL	86%	99%	14%	22%-147%
2CHLOROPHENOL	81%	90%	11%	23%-134%
PENTACHLOROPHENOL	67%	67%	0	14%-176%
PHENOL	52%	56%	7.4%	5%-112%
ACENAPHTHENE	75%	84%	11%	47%-145%
1,4-DICHLOROBENZENE	57%	52%	9.2%	20%-124%
2,4-DINITROTOLUENE	77%	81%	5.1%	39%-139%
N-NITROSO-DI-n-PROPYLAMINE	65%	76%	16%	D-230%
PYRENE	96%	110%	13%	54%-120%
1,2,4-TRICHLOROBENZENE	56%	51%	9.4%	44%-142%

ppb = parts per billion = µg/L = micrograms per Liter
RPD = Relative Percent Difference
D = Detectable
RPD Limits < 25

Laboratory Representative

September 30, 1992
Date Reported

SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

RESNA	Client Project ID:	F3125.00, Doric Construction	Sampled: Sep 16, 1992
42501 Albrae Street, Suite 100	Sample Descript:	[redacted]	Received: Sep 18, 1992
Fremont, CA 94538			Extracted: Sep 22, 1992
Attention: Anthony Enerio	Lab Number:	209-3067	Reported: Oct 2, 1992

INORGANIC PERSISTENT AND BIOACCUMULATIVE TOXIC SUBSTANCES

Analyte	Soluble Threshold Limit Concentration (Waste Extraction Test) STLC Max. Limit (mg/L)	Detection Limit (mg/L)	Analysis Result (mg/L)	Total Threshold Limit Concentration TTLC Max. Limit (mg/L)	Detection Limit (mg/L)	Analysis Result (mg/L)
Antimony	15	0.0050	--	500	0.0050	--
Arsenic	5	0.0050	--	500	0.0050	--
Barium	100	0.10	--	10,000	0.10	--
Beryllium	0.75	0.010	--	75	0.010	--
Cadmium	1	0.010	--	100	0.010	--
Chromium (VI)	5	0.0050	--	500	0.0050	--
Chromium (III)	560	0.010	--	2,500	0.010	--
Cobalt	80	0.050	--	8,000	0.050	--
Copper	25	0.010	N.D.	2,500	0.010	0.027
Lead	5	0.0050	N.D.	1,000	0.0050	0.013
Mercury	0.2	0.00020	--	20	0.00020	--
Molybdenum	350	0.050	--	3,500	0.050	--
Nickel	20	0.050	--	2,000	0.050	--
Selenium	1	0.0050	--	100	0.0050	--
Silver	5	0.010	--	500	0.010	--
Thallium	7	0.0050	--	700	0.0050	--
Vanadium	24	0.050	--	2,400	0.050	--
Zinc	250	0.010	--	5,000	0.010	--
Asbestos	-	10	--	10,000	10	--
Fluoride	180	0.10	--	18,000	0.10	--

Asbestos results are reported as fibers/g.
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Maria Lee

Maria Lee
Project Manager

SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

RESNA	Client Project ID:	F3125.00, Doric Construction	Sampled: Sep 16, 1992
42501 Albrae Street, Suite 100	Sample Descript:	[redacted]-2	Received: Sep 18, 1992
Fremont, CA 94538			Extracted: Sep 22, 1992
Attention: Anthony Enerio	Lab Number:	209-3068	Reported: Oct 2, 1992

INORGANIC PERSISTENT AND BIOACCUMULATIVE TOXIC SUBSTANCES

Analyte	Soluble Threshold Limit Concentration (Waste Extraction Test) STLC Max. Limit (mg/L)	Detection Limit (mg/L)	Analysis Result (mg/L)	Total Threshold Limit Concentration TTLC Max. Limit (mg/L)	Detection Limit (mg/L)	Analysis Result (mg/L)
Antimony	15	0.0050	--	500	0.0050	--
Arsenic	5	0.0050	--	500	0.0050	--
Barium	100	0.10	--	10,000	0.10	--
Beryllium	0.75	0.010	--	75	0.010	--
Cadmium	1	0.010	--	100	0.010	--
Chromium (VI)	5	0.0050	--	500	0.0050	--
Chromium (III)	560	0.010	--	2,500	0.010	--
Cobalt	80	0.050	--	8,000	0.050	--
Copper	25	0.010	0.016	2,500	0.010	0.12
Lead	5	0.0050	N.D.	1,000	0.0050	0.036
Mercury	0.2	0.00020	--	20	0.00020	--
Molybdenum	350	0.050	--	3,500	0.050	--
Nickel	20	0.050	--	2,000	0.050	--
Selenium	1	0.0050	--	100	0.0050	--
Silver	5	0.010	--	500	0.010	--
Thallium	7	0.0050	--	700	0.0050	--
Vanadium	24	0.050	--	2,400	0.050	--
Zinc	250	0.010	--	5,000	0.010	--
Asbestos	-	10	--	10,000	10	--
Fluoride	180	0.10	--	18,000	0.10	--

Asbestos results are reported as fibers/g.
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Maria Lee

Maria Lee
Project Manager

SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

RESNA	Client Project ID:	F3125.00, Doric Construction	Sampled:	Sep 16, 1992
42501 Albrae Street, Suite 100	Sample Descript:	[redacted]	Received:	Sep 18, 1992
Fremont, CA 94538			Extracted:	Sep 22, 1992
Attention: Anthony Enerio	Lab Number:	209-3069	Reported:	Oct 2, 1992

INORGANIC PERSISTENT AND BIOACCUMULATIVE TOXIC SUBSTANCES

Analyte	Soluble Threshold Limit Concentration (Waste Extraction Test) STLC Max. Limit (mg/L)	Detection Limit (mg/L)	Analysis Result (mg/L)	Total Threshold Limit Concentration TTLC Max. Limit (mg/L)	Detection Limit (mg/L)	Analysis Result (mg/L)
Antimony	15	0.0050	--	500	0.0050	--
Arsenic	5	0.0050	--	500	0.0050	--
Barium	100	0.10	--	10,000	0.10	--
Beryllium	0.75	0.010	--	75	0.010	--
Cadmium	1	0.010	--	100	0.010	--
Chromium (VI)	5	0.0050	--	500	0.0050	--
Chromium (III)	560	0.010	--	2,500	0.010	--
Cobalt	80	0.050	--	8,000	0.050	--
Copper	25	0.010	N.D.	2,500	0.010	0.31
Lead	5	0.0050	N.D.	1,000	0.0050	0.087
Mercury	0.2	0.00020	--	20	0.00020	--
Molybdenum	350	0.050	--	3,500	0.050	--
Nickel	20	0.050	--	2,000	0.050	--
Selenium	1	0.0050	--	100	0.0050	--
Silver	5	0.010	--	500	0.010	--
Thallium	7	0.0050	--	700	0.0050	--
Vanadium	24	0.050	--	2,400	0.050	--
Zinc	250	0.010	--	5,000	0.010	--
Asbestos	-	10	--	10,000	10	--
Fluoride	180	0.10	--	18,000	0.10	--

Asbestos results are reported as fibers/g.
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Maria Lee
Project Manager

SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

RESNA
42501 Albrae Street, Suite 100
Fremont, CA 94538
Attention: Anthony Enerio

Client Project ID: F3125.00, Doric Construction

QC Sample Group: 2093067-9

Reported: Oct 2, 1992

QUALITY CONTROL DATA REPORT

ANALYTE	Lead TTLC	Lead STLC	Copper STLC	Copper TTLC
Method:	EPA 239.2	EPA 239.2	EPA 6010	EPA 6010
Analyst:	S. Chin	S. Chin	C. Medefesser	M. Mistry
Reporting Units:	mg/L	mg/L	mg/L	mg/L
Date Analyzed:	Sep 23, 1992	Sep 25, 1992	Sep 30, 1992	Sep 29, 1992
QC Sample #:	209-3241	209-2508	209-3068	Set 9-53
Sample Conc.:	N.D.	0.061	0.016	N.D.
Spike Conc. Added:	0.050	0.50	5.0	2.0
Conc. Matrix Spike:	0.046	0.48	5.1	1.9
Matrix Spike % Recovery:	92	84	102	95
Conc. Matrix Spike Dup.:	0.045	0.47	5.1	1.9
Matrix Spike Duplicate % Recovery:	90	82	102	95
Relative % Difference:	2.2	2.1	0.0	0.0

SEQUOIA ANALYTICAL

Maria Lee
Project Manager

% Recovery: $\frac{\text{Conc. of M.S. - Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$

Relative % Difference: $\frac{\text{Conc. of M.S. - Conc. of M.S.D.}}{\text{(Conc. of M.S. + Conc. of M.S.D.) / 2}} \times 100$

RESNA

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

PROJECT NO.	PROJECT NAME/SITE	P.O. #:
F3125.00	Doric Construction	

SAMPLERS (SIGN) / (PRINT)

ANALYSIS REQUESTED

SAMPLE IDENTIFICATION	DATE	TIME	COMP	GRAB	PRES. USED	ICED	NO. CONTAINERS	SAMPLE TYPE	BTEX (602/8020)	TPHg (8015)	TPHd (8015)	TOG 418.1/5520	601/8010	624/8240	625/8270	TTLC Cu, Pb	STLC Cu, Pb			REMARKS
MW-1	9/16/92			X			2	W								X	X			2093067
MW-2	↓			↓			↓	↓								X	X			68
MW-3	↓			↓			↓	↓								X	X			69

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	LABORATORY:
Anthony Enerio	9/18/92	2:50	Rebekah J. Heyer	Sequoia
RELINQUISHED BY: Rebekah J. Heyer	9/18/92	15:30	RECEIVED BY:	
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	REQUESTED TURNAROUND TIME: 2wks by 10/2/92
RELINQUISHED BY:	DATE 9.18.92	TIME 15:30	RECEIVED BY LABORATORY: Tim [illegible]	RECEIPT CONDITION:

PLEASE SEND RESULTS TO:

RESNA ENVIRONMENTAL LABORATORY
42501 Albrae St.
Fremont, CA 94539
Tel # (510) 651-1906
Fax # (510) 651-8754

PROJECT MANAGER: A. Enerio / E. Fontaine

RESNA

SAMPLING LOG

Job Name: Foric Construction Date: 10-16-92

Job No.: F3125.31 Sampled by: RSutherland

Phase: Q/start-up Laboratory: Resna

Wells Secure: ☒ Yes ☐ No If no, then comment: _____

Drums at Site: Full 2 Empty _____

	Well No.	Depth to Water (ft)	Well Depth (ft)	Time (W'L)	Purge Volume (gal)	F° Temp.	Cond. (umho/cm)	pH	Observations
1	MW-1	5.38	13.85	08:00	1.4 3	67.7	5,000	6.94	No odor
					4.5	68.2	4380	6.96	No Sheen
					6	66.5	5010	6.98	Cloudy
2	MW-2	5.72	13.92	08:10	1.3 3	67.6	8850	7.08	No odor
					4.5	66.8	8,880	7.10	No sheen
					6	67.8	8990	7.04	Cloud/silty
3	MW-3	4.40	13.18	08:20	1.4 3	65.1	3570	6.97	No odor
					4.5	64.6	3510	6.99	No Sheen
					6	65.3	3490	7.03	Cloudy

42501 Albrae Street
Fremont, California 94538
(510) 440-3300

ANALYSIS REPORT

1020lab.frm

Attention: Sheryl Fontaine
RESNA
42501 Albrae St.
Fremont, CA 94538
Project: 19513-L,F3125-31
Doric Const.

Date Sampled: 10-16-92
Date Received: 10-20-92
TDS Analyzed: 10-29-92

SAMPLE Laboratory Identification	TDS(mg/L)
MW-1 W1210319	2200
MW-2 W1210320	4800
MW-3 W1210321	1600

ANALYTICAL PROCEDURES

TDS is measured according to Standard Method 160.2

Laboratory Representative

November 3, 1992
Date Reported

Environmental Laboratories

RESNA
Working To Restore Nature

ANALYSIS REPORT

Attention: Ms. Sheryl Fontaine
RESNA
42501 Albrae St.
Fremont, CA 94538
Project: 19513-L, F3125.31
Sample ID: MW-1
Lab ID: W1210319

Date Sampled: 10-16-92
Date Received: 10-20-92
Date Extracted: 10-22-92
Date Analyzed: 10-30-92
Matrix: Water

EPA METHOD 8270

COMPOUND NAME	ug/L	MDL	COMPOUND NAME	ug/L	MDL
Acenaphthene	ND	2.0	1,3-Dichlorbenzene	ND	2.0
Acenaphthylene	ND	2.0	1,4-Dichlorobenzene	ND	2.0
Anthracene	ND	2.0	1,2-Dichlorobenzene	ND	2.0
Benzidine	ND	5	3,3-dichlorobenzidine	ND	10
Benzoic Acid	ND	2.0	2,4-dichlorophenol	ND	2.0
Benzo(a)anthracene	ND	2.0	Diethyl phthalate	ND	2.0
Benzo(b)fluoranthene	ND	2.0	2,4-Dimethylphenol	ND	2.0
Benzo(k)fluoranthene	ND	2.0	Dimethyl phthalate	ND	2.0
Benzo(g,h,i)perylene	ND	2.0	4,6-Dinitro-2-methylphenol	ND	10
Benzo(a)pyrene	ND	2.0	2,4-Dinitrophenol	ND	10
Benzyl alcohol	ND	2.0	2,4-Dinitrotoluene	ND	2.0
Bis(2-chloroethoxy)methane	ND	2.0	2,6-Dinitrotoluene	ND	2.0
Bis(2-chloroethyl)ether	ND	2.0	Di-N-octyl phthalate	ND	2.0
Bis(2-chloroisopropyl)ether	ND	2.0	Fluoranthene	ND	2.0
Bis(2-ethylhexyl)phthalate	ND	10	Fluorene	ND	2.0
4-Bromophenyl phenyl ether	ND	2.0	Hexachlorobenzene	ND	2.0
Butyl benzyl phthalate	ND	2.0	Hexachlorobutadiene	ND	2.0
4-Chloroaniline	ND	2.0	Hexachlorocyclopentadiene	ND	2.0
2-Chloronaphthalene	ND	2.0	Hexachloroethane	ND	2.0
4-Chloro-3-methylphenol	ND	2.0	Indeno(1,2,3-cd)pyrene	ND	2.0
2-Chlorophenol	ND	2.0	Isophorone	ND	2.0
4-Chlorophenyl phenyl ether	ND	2.0	2-Methylnaphthalene	ND	2.0
Chrysene	ND	2.0	2-Methylphenol	ND	2.0
Dibenz(a,h)anthracene	ND	2.0	4-Methylphenol	ND	2.0
Dibenzofuran	ND	2.0	Naphthalene	ND	2.0
Di-N-butyl phthlate	ND	10	2-Nitroaniline	ND	2.0

ppb = parts per billion = ug/L = micrograms per Liter
ND = Not detected. Compound(s) may be present at concentrations below the detection limit.
NR = Analysis not requested.

Laboratory Representative

November 3, 1992
Date Reported

Environmental Laboratories

RESNA
Working To Restore Nature

ANALYSIS REPORT

Attention: Ms. Sheryl Fontaine
RESNA
42501 Albrae St.
Fremont, CA 94538
Project: 19513-L, F3125.31
Sample ID: MW-1
Lab ID: W1210319

Date Sampled: 10-16-92
Date Received: 10-20-92
Date Extracted: 10-22-92
Date Analyzed: 10-30-92
Matrix: Water

EPA METHOD 8270

COMPOUND NAME	ug/L	MDL
3-Nitroaniline	ND	2.0
4-Nitroaniline	ND	2.0
Nitrobenzene	ND	2.0
2-Nitrophenol	ND	2.0
4-Nitrophenol	ND	10
N-Nitrosodiphenylamine	ND	2.0
N-Nitroso-di-N-propylamine	ND	2.0
Pentachlorophenol	ND	10
Phenanthrene	ND	2.0
Phenol	ND	2.0
Pyrene	ND	2.0
1,2,4-Trichlorobenzene	ND	2.0
2,4,5-Trichlorophenol	ND	2.0
2,4,6-Trichlorophenol	ND	2.0

ppb = parts per billion = ug/L = micrograms per Liter
ND = Not detected. Compound(s) may be present at concentrations below the detection limit.
NR = Analysis not requested.

Laboratory Representative

November 3, 1992
Date Reported

Environmental Laboratories

RESNA
Working To Restore Nature

ANALYSIS REPORT

Attention: Ms. Sheryl Fontaine
RESNA
42501 Albrae St.
Fremont, CA 94538
Project: 19513-L, F3125.31
Sample ID: MW-2
Lab ID: W1210320

Date Sampled: 10-16-92
Date Received: 10-20-92
Date Extracted: 10-22-92
Date Analyzed: 10-30-92
Matrix: Water

EPA METHOD 8270

COMPOUND NAME	ug/L	MDL	COMPOUND NAME	ug/L	MDL
Acenaphthene	ND	2.0	1,3-Dichlorbenzene	ND	2.0
Acenaphthylene	ND	2.0	1,4-Dichlorobenzene	ND	2.0
Anthracene	ND	2.0	1,2-Dichlorobenzene	ND	2.0
Benzidine	ND	5	3,3-dichlorobenzidine	ND	10
Benzoic Acid	ND	2.0	2,4-dichlorophenol	ND	2.0
Benzo(a)anthracene	ND	2.0	Diethyl phthalate	ND	2.0
Benzo(b)fluoranthene	ND	2.0	2,4-Dimethylphenol	ND	2.0
Benzo(k)fluoranthene	ND	2.0	Dimethyl phthalate	ND	2.0
Benzo(g,h,i)perylene	ND	2.0	4,6-Dinitro-2-methylphenol	ND	10
Benzo(a)pyrene	ND	2.0	2,4-Dinitrophenol	ND	10
Benzyl alcohol	ND	2.0	2,4-Dinitrotoluene	ND	2.0
Bis(2-chloroethoxy)methane	ND	2.0	2,6-Dinitrotoluene	ND	2.0
Bis(2-chloroethyl)ether	ND	2.0	Di-N-octyl phthalate	ND	2.0
Bis(2-chloroisopropyl)ether	ND	2.0	Fluoranthene	ND	2.0
Bis(2-ethylhexyl)phthalate	ND	10	Fluorene	ND	2.0
4-Bromophenyl phenyl ether	ND	2.0	Hexachlorobenzene	ND	2.0
Butyl benzyl phthalate	ND	2.0	Hexachlorobutadiene	ND	2.0
4-Chloroaniline	ND	2.0	Hexachlorocyclopentadiene	ND	2.0
2-Chloronaphthalene	ND	2.0	Hexachloroethane	ND	2.0
4-Chloro-3-methylphenol	ND	2.0	Indeno(1,2,3-cd)pyrene	ND	2.0
2-Chlorophenol	ND	2.0	Isophorone	ND	2.0
4-Chlorophenyl phenyl ether	ND	2.0	2-Methylnaphthalene	ND	2.0
Chrysene	ND	2.0	2-Methylphenol	ND	2.0
Dibenz(a,h)anthracene	ND	2.0	4-Methylphenol	ND	2.0
Dibenzofuran	ND	2.0	Naphthalene	ND	2.0
Di-N-butyl phthlate	ND	10	2-Nitroaniline	ND	2.0

ppb = parts per billion = ug/L = micrograms per Liter
ND = Not detected. Compound(s) may be present at concentrations below the detection limit.
NR = Analysis not requested.

Laboratory Representative

November 3, 1992
Date Reported

Environmental Laboratories

RESNA
Working To Restore Nature

ANALYSIS REPORT

Attention: Ms. Sheryl Fontaine
RESNA
42501 Albrae St.
Fremont, CA 94538
Project: 19513-L, F3125.31
Sample ID: MW-2
Lab ID: W1210320

Date Sampled: 10-16-92
Date Received: 10-20-92
Date Extracted: 10-22-92
Date Analyzed: 10-30-92
Matrix: Water

EPA METHOD 8270

COMPOUND NAME	ug/L	MDL
3-Nitroaniline	ND	2.0
4-Nitroaniline	ND	2.0
Nitrobenzene	ND	2.0
2-Nitrophenol	ND	2.0
4-Nitrophenol	ND	10
N-Nitrosodiphenylamine	ND	2.0
N-Nitroso-di-N-propylamine	ND	2.0
Pentachlorophenol	ND	10
Phenanthrene	ND	2.0
Phenol	ND	2.0
Pyrene	ND	2.0
1,2,4-Trichlorobenzene	ND	2.0
2,4,5-Trichlorophenol	ND	2.0
2,4,6-Trichlorophenol	ND	2.0

ppb = parts per billion = ug/L = micrograms per Liter
ND = Not detected. Compound(s) may be present at concentrations below the detection limit.
NR = Analysis not requested.

Laboratory Representative

November 3, 1992
Date Reported

Environmental Laboratories

RESNA
Working To Restore Nature

ANALYSIS REPORT

Attention: Ms. Sheryl Fontaine
RESNA
42501 Albrae St.
Fremont, CA 94538
Project: 19513-L, F3125.31
Sample ID: MW-3
Lab ID: W1210321

Date Sampled: 10-16-92
Date Received: 10-20-92
Date Extracted: 10-22-92
Date Analyzed: 10-30-92
Matrix: Water

EPA METHOD 8270

COMPOUND NAME	ug/L	MDL	COMPOUND NAME	ug/L	MDL
Acenaphthene	ND	2.0	1,3-Dichlorbenzene	ND	2.0
Acenaphthylene	ND	2.0	1,4-Dichlorobenzene	ND	2.0
Anthracene	ND	2.0	1,2-Dichlorobenzene	ND	2.0
Benzidine	ND	5	3,3-dichlorobenzidine	ND	10
Benzoic Acid	ND	2.0	2,4-dichlorophenol	ND	2.0
Benzo(a)anthracene	ND	2.0	Diethyl phthalate	ND	2.0
Benzo(b)fluoranthene	ND	2.0	2,4-Dimethylphenol	ND	2.0
Benzo(k)fluoranthene	ND	2.0	Dimethyl phthalate	ND	2.0
Benzo(g,h,i)perylene	ND	2.0	4,6-Dinitro-2-methylphenol	ND	10
Benzo(a)pyrene	ND	2.0	2,4-Dinitrophenol	ND	10
Benzyl alcohol	ND	2.0	2,4-Dinitrotoluene	ND	2.0
Bis(2-chloroethoxy)methane	ND	2.0	2,6-Dinitrotoluene	ND	2.0
Bis(2-chloroethyl)ether	ND	2.0	Di-N-octyl phthalate	ND	2.0
Bis(2-chloroisopropyl)ether	ND	2.0	Fluoranthene	ND	2.0
Bis(2-ethylhexyl)phthalate	ND	10	Fluorene	ND	2.0
4-Bromophenyl phenyl ether	ND	2.0	Hexachlorobenzene	ND	2.0
Butyl benzyl phthalate	ND	2.0	Hexachlorobutadiene	ND	2.0
4-Chloroaniline	ND	2.0	Hexachlorocyclopentadiene	ND	2.0
2-Chloronaphthalene	ND	2.0	Hexachloroethane	ND	2.0
4-Chloro-3-methylphenol	ND	2.0	Indeno(1,2,3-cd)pyrene	ND	2.0
2-Chlorophenol	ND	2.0	Isophorone	ND	2.0
4-Chlorophenyl phenyl ether	ND	2.0	2-Methylnaphthalene	ND	2.0
Chrysene	ND	2.0	2-Methylphenol	ND	2.0
Dibenz(a,h)anthracene	ND	2.0	4-Methylphenol	ND	2.0
Dibenzofuran	ND	2.0	Naphthalene	ND	2.0
Di-N-butyl phthlate	ND	10	2-Nitroaniline	ND	2.0

ppb = parts per billion = ug/L = micrograms per Liter
ND = Not detected. Compound(s) may be present at concentrations below the detection limit.
NR = Analysis not requested.

Laboratory Representative

November 3, 1992
Date Reported

Environmental Laboratories

RESNA
Working To Restore Nature

ANALYSIS REPORT

Attention: Ms. Sheryl Fontaine
RESNA
42501 Albrae St.
Fremont, CA 94538
Project: 19513-L, F3125.31
Sample ID: MW-3
Lab ID: W1210321

Date Sampled: 10-16-92
Date Received: 10-20-92
Date Extracted: 10-22-92
Date Analyzed: 10-30-92
Matrix: Water

EPA METHOD 8270

COMPOUND NAME	ug/L	MDL
3-Nitroaniline	ND	2.0
4-Nitroaniline	ND	2.0
Nitrobenzene	ND	2.0
2-Nitrophenol	ND	2.0
4-Nitrophenol	ND	10
N-Nitrosodiphenylamine	ND	2.0
N-Nitroso-di-N-propylamine	ND	2.0
Pentachlorophenol	ND	10
Phenanthrene	ND	2.0
Phenol	ND	2.0
Pyrene	ND	2.0
1,2,4-Trichlorobenzene	ND	2.0
2,4,5-Trichlorophenol	ND	2.0
2,4,6-Trichlorophenol	ND	2.0

ppb = parts per billion = ug/L = micrograms per Liter
ND = Not detected. Compound(s) may be present at concentrations below the detection limit.
NR = Analysis not requested.

Laboratory Representative

November 3, 1992
Date Reported

ANALYSIS REPORT

1020lab.frm

Attention: Ms. Sheryl Fontaine
RESNA
42501 Albrae St.
Fremont. CA 94538
Project: 19513-L,F3125.31
Sample ID: Method Water Spike
Lab ID:

Date Sampled: 10-22-92
Date Received: 10-22-92
Date Extracted: 10-22-92
Date Analyzed: 10-30-92

EPA METHOD 8270 QA/QC SHEET
UNITS ug/L

COMPOUND NAME	MS	MSD	RPD	Limits
4CHLORO-3-METHYLPHENOL	63%	61%	3.2%	22%-147%
2CHLOROPHENOL	83%	80%	3.6%	23%-134%
PENTACHLOROPHENOL	65%	151%	8.9%	14%-176%
PHENOL	92%	97%	5.3%	5%-112%
ACENAPHTHENE	55%	53%	3.7%	47%-145%
1,4-DICHLOROBENZENE	53%	51%	3.9%	20%-124%
2,4-DINITROTOLUENE	68%	67%	1.5%	39%-139%
N-NITROSO-DI-n-PROPYLAMINE	61%	57%	1.5%	D-230%
PYRENE	80%	83%	3.7%	54%-120%
1,2,4-TRICHLOROBENZENE	52%	49%	5.9%	44%-142%

ppb = parts per billion = µg/L= micrograms per Liter
RPD = Relative Percent Difference
D = Detectable

Laboratory Representative

November 3, 1992
Date Reported

RESNA

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

11561

PROJECT NO.: F3125.31

PROJECT NAME/SITE: Poric Construction, 500 Maitland Dr, Alameda

SAMPLERS: (SIGN) [signature] (PRINT) Robin Sutherland

ANALYSIS REQUESTED: BTEX (602/8020); TPHg (8015); TPHd (8015); TOG 418.1/5520; 601/8010; 624/8240; 625/8270; STLC (cu/Pb); TTLC (cu/Pb); TDS (salinity); Title 22 Metals

P.O. #:

SAMPLE IDENTIFICATION	DATE	TIME	COMP	GRAB	PRES. USED	ICED	NO. CONTAINERS	SAMPLE TYPE	REMARKS
MW-1 (also 103/9)	10-16-92	9:00		X	None	Y	6	W	Please Filter and Preserve metals if Needed
MW-2 (320)	↓	10:00		↓	↓	↓	↓	↓	
MW-3 (321)	↓	11:00		↓	↓	↓	↓	↓	

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
[signature]	10/20/92	7:15	
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
RELINQUISHED BY:	DATE 10/20/92	TIME 7:15	RECEIVED BY LABORATORY: [signature]

LABORATORY: Resna

REQUESTED TURNAROUND TIME: Normal

RECEIPT CONDITION: good

PLEASE SEND RESULTS TO:
S. Fontaine
42501 Albrae St
Fremont, CA 94538

PROJECT MANAGER:

SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

RESNA	Client Project ID:	F3125.31, Doric Construction	Sampled:	Oct 16, 1992
42501 Albrae Street, Suite 100	Sample Descript:	Water, MW-1	Received:	Oct 20, 1992
Fremont, CA 94538			Extracted:	10/21, 22/92
Attention: Anthony Enerio	Lab Number:	210-3034	Reported:	Oct 30, 1992

INORGANIC PERSISTENT AND BIOACCUMULATIVE TOXIC SUBSTANCES

	Soluble Threshold Limit Concentration (Waste Extraction Test)			Total Threshold Limit Concentration		
Analyte	STLC Max. Limit (mg/L)	Detection Limit (mg/L)	Analysis Result (mg/L)	TTLC Max. Limit (mg/L)	Detection Limit (mg/L)	Analysis Result (mg/L)
Antimony	15	0.0050	--	500	0.0050	--
Arsenic	5	0.0050	--	500	0.0050	--
Barium	100	0.10	--	10,000	0.10	--
Beryllium	0.75	0.010	--	75	0.010	--
Cadmium	1	0.010	--	100	0.010	--
Chromium (VI)	5	0.0050	--	500	0.0050	--
Chromium (III)	560	0.010	--	2,500	0.010	--
Cobalt	80	0.050	--	8,000	0.050	--
Copper	**25**	**0.010**	**0.022**	**2,500**	**0.010**	**0.026**
Lead	5	0.0050	N.D.	1,000	0.0050	N.D.
Mercury	0.2	0.00020	--	20	0.00020	--
Molybdenum	350	0.050	--	3,500	0.050	--
Nickel	20	0.050	--	2,000	0.050	--
Selenium	1	0.0050	--	100	0.0050	--
Silver	5	0.010	--	500	0.010	--
Thallium	7	0.0050	--	700	0.0050	--
Vanadium	24	0.050	--	2,400	0.050	--
Zinc	250	0.010	--	5,000	0.010	--
Asbestos	-	10	--	10,000	10	--
Fluoride	180	0.10	--	18,000	0.10	--

Asbestos results are reported as fibers/g.
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Maria Lee
Project Manager

SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

RESNA	Client Project ID:	F3125.31, Doric Construction	Sampled:	Oct 16, 1992
42501 Albrae Street, Suite 100	Sample Descript:	Water, MW-2	Received:	Oct 20, 1992
Fremont, CA 94538			Extracted:	10/21, 22/92
Attention: Anthony Enerio	Lab Number:	210-3035	Reported:	Oct 30, 1992

INORGANIC PERSISTENT AND BIOACCUMULATIVE TOXIC SUBSTANCES

Analyte	Soluble Threshold Limit Concentration (Waste Extraction Test) STLC Max. Limit (mg/L)	Detection Limit (mg/L)	Analysis Result (mg/L)	Total Threshold Limit Concentration TTLC Max. Limit (mg/L)	Detection Limit (mg/L)	Analysis Result (mg/L)
Antimony	15	0.0050	--	500	0.0050	--
Arsenic	5	0.0050	--	500	0.0050	--
Barium	100	0.10	--	10,000	0.10	--
Beryllium	0.75	0.010	--	75	0.010	--
Cadmium	1	0.010	--	100	0.010	--
Chromium (VI)	5	0.0050	--	500	0.0050	--
Chromium (III)	560	0.010	--	2,500	0.010	--
Cobalt	80	0.050	--	8,000	0.050	--
Copper	**25**	**0.010**	**0.033**	**2,500**	**0.010**	**0.038**
Lead	**5**	**0.0050**	**N.D.**	**1,000**	**0.0050**	**0.0061**
Mercury	0.2	0.00020	--	20	0.00020	--
Molybdenum	350	0.050	--	3,500	0.050	--
Nickel	20	0.050	--	2,000	0.050	--
Selenium	1	0.0050	--	100	0.0050	--
Silver	5	0.010	--	500	0.010	--
Thallium	7	0.0050	--	700	0.0050	--
Vanadium	24	0.050	--	2,400	0.050	--
Zinc	250	0.010	--	5,000	0.010	--
Asbestos	-	10	--	10,000	10	--
Fluoride	180	0.10	--	18,000	0.10	--

Asbestos results are reported as fibers/g.
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Maria Lee
Project Manager

SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

RESNA	Client Project ID:	F3125.31, Doric Construction	Sampled:	Oct 16, 1992
42501 Albrae Street, Suite 100	Sample Descript:	Water, MW-3	Received:	Oct 20, 1992
Fremont, CA 94538			Extracted:	10/21, 22/92
Attention: Anthony Enerio	Lab Number:	210-3036	Reported:	Oct 30, 1992

INORGANIC PERSISTENT AND BIOACCUMULATIVE TOXIC SUBSTANCES

Analyte	Soluble Threshold Limit Concentration (Waste Extraction Test) STLC Max. Limit (mg/L)	Detection Limit (mg/L)	Analysis Result (mg/L)	Total Threshold Limit Concentration TTLC Max. Limit (mg/L)	Detection Limit (mg/L)	Analysis Result (mg/L)
Antimony	15	0.0050	--	500	0.0050	--
Arsenic	5	0.0050	--	500	0.0050	--
Barium	100	0.10	--	10,000	0.10	--
Beryllium	0.75	0.010	--	75	0.010	--
Cadmium	1	0.010	--	100	0.010	--
Chromium (VI)	5	0.0050	--	500	0.0050	--
Chromium (III)	560	0.010	--	2,500	0.010	--
Cobalt	80	0.050	--	8,000	0.050	--
Copper	**25**	**0.010**	**0.027**	**2,500**	**0.010**	**0.033**
Lead	5	0.0050	N.D.	1,000	0.0050	N.D.
Mercury	0.2	0.00020	--	20	0.00020	--
Molybdenum	350	0.050	--	3,500	0.050	--
Nickel	20	0.050	--	2,000	0.050	--
Selenium	1	0.0050	--	100	0.0050	--
Silver	5	0.010	--	500	0.010	--
Thallium	7	0.0050	--	700	0.0050	--
Vanadium	24	0.050	--	2,400	0.050	--
Zinc	250	0.010	--	5,000	0.010	--
Asbestos	-	10	--	10,000	10	--
Fluoride	180	0.10	--	18,000	0.10	--

Asbestos results are reported as fibers/g.
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Maria Lee
Project Manager

SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

RESNA
42501 Albrae Street, Suite 100
Fremont, CA 94538
Attention: Anthony Enerio

Client Project ID: F3125.31, Doric Construction

QC Sample Group: 2103034-5

Reported: Oct 30, 1992

QUALITY CONTROL DATA REPORT - STLC

ANALYTE	Lead	Beryllium	Cadmium	Chromium	Nickel
Method:	EPA 7421	EPA 6010	EPA 6010	EPA 6010	EPA 6010
Analyst:	S. Chin	M. Mistry	M. Mistry	M. Mistry	M. Mistry
Reporting Units:	mg/L	mg/L	mg/L	mg/L	mg/L
Date Analyzed:	Oct 26, 1992	Oct 28, 1992	Oct 28, 1992	Oct 28, 1992	Oct 28, 1992
QC Sample #:	210-3166	210-3835	210-3835	210-3835	210-3835
Sample Conc.:	0.12	N.D.	N.D.	N.D.	0.070
Spike Conc. Added:	0.50	1.0	1.0	1.0	1.0
Conc. Matrix Spike:	720	1.1	1.3	1.1	2.3
Matrix Spike % Recovery:	120	110	130	110	223
Conc. Matrix Spike Dup.:	690	1.1	1.3	1.1	2.2
Matrix Spike Duplicate % Recovery:	114	110	130	110	213
Relative % Difference:	4.3	0.0	0.0	0.0	4.6

SEQUOIA ANALYTICAL

Maria Lee
Project Manager

% Recovery: $\frac{\text{Conc. of M.S. - Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$

Relative % Difference: $\frac{\text{Conc. of M.S. - Conc. of M.S.D.}}{\text{(Conc. of M.S. + Conc. of M.S.D.) / 2}} \times 100$

SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

RESNA
42501 Albrae Street, Suite 100
Fremont, CA 94538
Attention: Anthony Enerio

Client Project ID: F3125.31, Doric Construction

QC Sample Group: 2103034-5

Reported: Oct 30, 1992

QUALITY CONTROL DATA REPORT - TTLC

ANALYTE	Lead	Beryllium	Cadmium	Chromium	Nickel
Method:	EPA 239.2	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7
Analyst:	S. Chin	C. Medefesser	C. Medefesser	C. Medefesser	C. Medefesser
Reporting Units:	mg/L	mg/L	mg/L	mg/L	mg/L
Date Analyzed:	Oct 23, 1992	Oct 30, 1992	Oct 30, 1992	Oct 30, 1992	Oct 30, 1992
QC Sample #:	210-3036	210-3034	210-3034	210-3034	210-3034
Sample Conc.:	N.D.	N.D.	N.D.	0.092	0.12
Spike Conc. Added:	0.050	1.0	1.0	1.0	1.0
Conc. Matrix Spike:	0.046	1.1	0.97	1.0	1.0
Matrix Spike % Recovery:	92	110	97	91	88
Conc. Matrix Spike Dup.:	0.048	1.1	0.97	1.0	1.0
Matrix Spike Duplicate % Recovery:	96	110	97	91	88
Relative % Difference:	4.3	0.0	0.0	0.0	0.0

SEQUOIA ANALYTICAL

Maria Lee
Project Manager

$$\text{\% Recovery:} \quad \frac{\text{Conc. of M.S. - Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$$

$$\text{Relative \% Difference:} \quad \frac{\text{Conc. of M.S. - Conc. of M.S.D.}}{\text{(Conc. of M.S. + Conc. of M.S.D.) / 2}} \times 100$$

RESNA

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

PROJECT NO.	PROJECT NAME/SITE	P.O. #:
F3125.31	DORIC Const.	

SAMPLERS (SIGN) / (PRINT)

SAMPLE IDENTIFICATION	DATE	TIME	COMP	GRAB	PRES. USED	ICED	NO. CONTAINERS	SAMPLE TYPE	BTEX (602/8020)	TPHg (8015)	TPHd (8015)	TOG 418.1/5520	601/8010	624/8240	625/8270	STLC Cu/Pb	TTLC Cu/Pb				REMARKS
																					5/210 319
MW-1 2103034	10/16/92			X			2	W							X	X					please filter + preserve
MW-2 2103035	↓			X			2	W							X	X					↓
MW-3 2103036	↓			X			2	W							X	X					

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
[signature]	10-22-92	9:37 AM	[signature]
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
[signature]	10/20/92	1050	
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
RELINQUISHED BY:	DATE	TIME	RECEIVED BY LABORATORY:
			[signature] 10-20-92 1050

LABORATORY: [signature]

REQUESTED TURNAROUND TIME: 2wks by 11/3/92

RECEIPT CONDITION: good

PLEASE SEND RESULTS TO:

RESNA ENVIRONMENTAL LABORATORY
42501 Albrae St.
Fremont, CA 94538
Tel # (510) 651-1906
Fax # (510) 651-8754

PROJECT MANAGER: A. Evers / S. Fontana

RESNA

SAMPLING LOG

Job Name: Doric Construction Date: 11-30-92

Job No.: F3125.31 Sampled by: R Sutherland

Phase: Q Laboratory: Resna

Wells Secure: ☒ Yes ☐ No If no, then comment:

Drums at Site: Full 2 Empty

Well No.	Depth to Water (ft)	Well Depth (ft)	Time (W*L)	Purge Volume (gal)	Temp. (°C)	Cond. (umho/cm)	pH	Observations
MW-1	3.24	13.80	10:30	1.7 3	66.4	5010	6.94	No odor
				4.5	66.1	4900	6.99	No sheen
1				6	65.8	4870	7.04	Cloudy
MW-2	4.10	13.90	10:40	1.3 3	66.9	7600	7.10	No odor
				4.5	66.3	7580	7.15	No sheen
3				6	65.8	7550	7.12	Cloudy
MW-3	3.17	13.10	10:35	1.5 3	66.7	3570	6.95	No odor
				4.5	66.1	3500	6.94	No Sheen
2				6	65.7	3470	6.91	Cloudy

42501 Albrae Street
Fremont, California 94538
(510) 440-3300

RESNA

SAMPLING LOG

Job Name: [redacted] Doric Constr. **Date:** 12-22-92

Job No.: F3125.31 **Sampled by:** S. Fontaine

Phase: QM **Laboratory:** RESNA

Wells Secure: ☒ Yes ☐ No If no, then comment: _____

Drums at Site: Full 1 ~~Empty~~ 1/2full 1

Well No.	Depth to Water (ft)	Well Depth (ft)	Time (W*L)	Purge Volume (gal)		Temp. (°C)	Cond. (umho/cm)	pH	Observations
MW-1	3.50	[redacted] 13.65	12:00	1.75	1	15°	5500		cloudy
					2	15°	6000		cloudy
					3	15.5°	5750		clearer, yellowish
					4	17°	6100		cloudy
					5.25	15°	6500		slightly cloudy
MW-2	3.45	[redacted] 13.72	1:00	2	1	16	6500		cloudy, silty
					2	15	6050		cloudy
					3	15.5	6500		cloudy
					4	15	6450		cloudy
					6	15	6500		cloudy
MW-3	3.00	12.80	2:00	1.65	1	14.5	2125		cloudy, silty
					2	15	2150		cloudy
					3	15	2125		cloudy
					4	15	2100		cloudy
					5	15	2075		slightly cloudy

42501 Albrae Street
Fremont, California 94538
(510) 440-3300

ANALYSIS REPORT

1020lab.frm

Attention: Sheryl Fontaine
RESNA
42501 Albrae St.
Fremont, CA 94538
Project: 19513-L,F3125-31
Doric Const.

Date Sampled: 12-22-92
Date Received: 12-22-92
TDS Analyzed: 12-29-92

SAMPLE Laboratory Identification	TDS(mg/L)
MW-1 W1212469	1200
MW-2 W1212470	4100
MW-3 W1212471	1400

ANALYTICAL PROCEDURES

TDS is measured according to Standard Method 160.2

Laboratory Representative

January 4, 1993
Date Reported

Environmental Laboratories

RESNA
Working To Restore Nature

ANALYSIS REPORT

Attention: Ms. Sheryl Fontaine
RESNA
42501 Albrae St., Ste 100
Fremont, CA 94538
Project: 19513-L, F3125, Doric Const.
Sample ID: MW-1
Lab ID: W1212469

Date Sampled: 12-22-92
Date Received: 12-22-92
Date Extracted: 12-23-92
Date Analyzed: 12-23-92
Matrix: Water

EPA METHOD 8270

COMPOUND NAME	ug/L	MDL	COMPOUND NAME	ug/L	MDL
Acenaphthene	ND	2.0	1,3-Dichlorbenzene	ND	2.0
Acenaphthylene	ND	2.0	1,4-Dichlorobenzene	ND	2.0
Anthracene	ND	2.0	1,2-Dichlorobenzene	ND	2.0
Benzidine	ND	5	3,3-dichlorobenzidine	ND	10
Benzoic Acid	ND	2.0	2,4-dichlorophenol	ND	2.0
Benzo(a)anthracene	ND	2.0	Diethyl phthalate	ND	2.0
Benzo(b)fluoranthene	ND	2.0	2,4-Dimethylphenol	ND	2.0
Benzo(k)fluoranthene	ND	2.0	Dimethyl phthalate	ND	2.0
Benzo(g,h,i)perylene	ND	2.0	4,6-Dinitro-2-methylphenol	ND	10
Benzo(a)pyrene	ND	2.0	2,4-Dinitrophenol	ND	10
Benzyl alcohol	ND	2.0	2,4-Dinitrotoluene	ND	2.0
Bis(2-chloroethoxy)methane	ND	2.0	2,6-Dinitrotoluene	ND	2.0
Bis(2-chloroethyl)ether	ND	2.0	Di-N-octyl phthalate	ND	2.0
Bis(2-chloroisopropyl)ether	ND	2.0	Fluoranthene	ND	2.0
Bis(2-ethylhexyl)phthalate	ND	10	Fluorene	ND	2.0
4-Bromophenyl phenyl ether	ND	2.0	Hexachlorobenzene	ND	2.0
Butyl benzyl phthalate	ND	2.0	Hexachlorobutadiene	ND	2.0
4-Chloroaniline	ND	2.0	Hexachlorocyclopentadiene	ND	2.0
2-Chloronaphthalene	ND	2.0	Hexachloroethane	ND	2.0
4-Chloro-3-methylphenol	ND	2.0	Indeno(1,2,3-cd)pyrene	ND	2.0
2-Chlorophenol	ND	2.0	Isophorone	ND	2.0
4-Chlorophenyl phenyl ether	ND	2.0	2-Methylnaphthalene	ND	2.0
Chrysene	ND	2.0	2-Methylphenol	ND	2.0
Dibenz(a,h)anthracene	ND	2.0	4-Methylphenol	ND	2.0
Dibenzofuran	ND	2.0	Naphthalene	ND	2.0
Di-N-butyl phthlate	ND	10	2-Nitroaniline	ND	2.0

ppb = parts per billion = ug/L = micrograms per Liter
ND = Not detected. Compound(s) may be present at concentrations below the detection limit.
NR = Analysis not requested.

MM Tague
Laboratory Representative

December 28, 1992
Date Reported

Environmental Laboratories

RESNA
Working To Restore Nature

ANALYSIS REPORT

Attention: Ms. Sheryl Fontaine
RESNA
42501 Albrae St., Ste 100
Fremont, CA 94538
Project: 19513-L, F3125, Doric Const.
Sample ID: MW-1
Lab ID: W1212469

Date Sampled: 12-22-92
Date Received: 12-22-92
Date Extracted: 12-23-92
Date Analayzed: 12-23-92
Matrix: Water

EPA METHOD 8270

COMPOUND NAME	ug/L	MDL
3-Nitroaniline	ND	2.0
4-Nitroaniline	ND	2.0
Nitrobenzene	ND	2.0
2-Nitrophenol	ND	2.0
4-Nitrophenol	ND	10
N-Nitrosodiphenylamine	ND	2.0
N-Nitroso-di-N-propylamine	ND	2.0
Pentachlorophenol	ND	10
Phenanthrene	ND	2.0
Phenol	ND	2.0
Pyrene	ND	2.0
1,2,4-Trichlorobenzene	ND	2.0
2,4,5-Trichlorophenol	ND	2.0
2,4,6-Trichlorophenol	ND	2.0

ppb = parts per billion = ug/L = micrograms per Liter
ND = Not detected. Compound(s) may be present at concentrations below the detection limit.
ND = Analysis not requested.

VM Tague
Laboratory Representative

December 28, 1992
Date Reported

Environmental Laboratories

RESNA
Working To Restore Nature

ANALYSIS REPORT

Attention:	Ms. Sheryl Fontaine	Date Sampled:	12-22-92
	RESNA	Date Received:	12-22-92
	42501 Albrae St., Ste 100	Date Extracted:	12-23-92
	Fremont, CA 94538	Date Analyzed:	12-23-92
Project:	19513-L, F3125, Doric Const.	Matrix:	Water
Sample ID:	MW-2		
Lab ID:	W1212470		

EPA METHOD 8270

COMPOUND NAME	ug/L	MDL	COMPOUND NAME	ug/L	MDL
Acenaphthene	ND	2.0	1,3-Dichlorbenzene	ND	2.0
Acenaphthylene	ND	2.0	1,4-Dichlorobenzene	ND	2.0
Anthracene	ND	2.0	1,2-Dichlorobenzene	ND	2.0
Benzidine	ND	5	3,3-dichlorobenzidine	ND	10
Benzoic Acid	ND	2.0	2,4-dichlorophenol	ND	2.0
Benzo(a)anthracene	ND	2.0	Diethyl phthalate	ND	2.0
Benzo(b)fluoranthene	ND	2.0	2,4-Dimethylphenol	ND	2.0
Benzo(k)fluoranthene	ND	2.0	Dimethyl phthalate	ND	2.0
Benzo(g,h,i)perylene	ND	2.0	4,6-Dinitro-2-methylphenol	ND	10
Benzo(a)pyrene	ND	2.0	2,4-Dinitrophenol	ND	10
Benzyl alcohol	ND	2.0	2,4-Dinitrotoluene	ND	2.0
Bis(2-chloroethoxy)methane	ND	2.0	2,6-Dinitrotoluene	ND	2.0
Bis(2-chloroethyl)ether	ND	2.0	Di-N-octyl phthalate	ND	2.0
Bis(2-chloroisopropyl)ether	ND	2.0	Fluoranthene	ND	2.0
Bis(2-ethylhexyl)phthalate	ND	10	Fluorene	ND	2.0
4-Bromophenyl phenyl ether	ND	2.0	Hexachlorobenzene	ND	2.0
Butyl benzyl phthalate	ND	2.0	Hexachlorobutadiene	ND	2.0
4-Chloroaniline	ND	2.0	Hexachlorocyclopentadiene	ND	2.0
2-Chloronaphthalene	ND	2.0	Hexachloroethane	ND	2.0
4-Chloro-3-methylphenol	ND	2.0	Indeno(1,2,3-cd)pyrene	ND	2.0
2-Chlorophenol	ND	2.0	Isophorone	ND	2.0
4-Chlorophenyl phenyl ether	ND	2.0	2-Methylnaphthalene	ND	2.0
Chrysene	ND	2.0	2-Methylphenol	ND	2.0
Dibenz(a,h)anthracene	ND	2.0	4-Methylphenol	ND	2.0
Dibenzofuran	ND	2.0	Naphthalene	ND	2.0
Di-N-butyl phthlate	ND	10	2-Nitroaniline	ND	2.0

ppb = parts per billion = ug/L = micrograms per Liter
ND = Not detected. Compound(s) may be present at concentrations below the detection limit.
NR = Analysis not requested.

VM Tague
Laboratory Representative

December 28, 1992
Date Reported

Environmental Laboratories

RESNA
Working To Restore Nature

ANALYSIS REPORT

Attention: Ms. Sheryl Fontaine
RESNA
42501 Albrae St., Ste 100
Fremont, CA 94538
Project: 19513-L, F3125, Doric Const.
Sample ID: MW-2
Lab ID: W1212470

Date Sampled: 12-22-92
Date Received: 12-22-92
Date Extracted: 12-23-92
Date Analayzed: 12-23-92
Matrix: Water

EPA METHOD 8270

COMPOUND NAME	ug/L	MDL
3-Nitroaniline	ND	2.0
4-Nitroaniline	ND	2.0
Nitrobenzene	ND	2.0
2-Nitrophenol	ND	2.0
4-Nitrophenol	ND	10
N-Nitrosodiphenylamine	ND	2.0
N-Nitroso-di-N-propylamine	ND	2.0
Pentachlorophenol	ND	10
Phenanthrene	ND	2.0
Phenol	ND	2.0
Pyrene	ND	2.0
1,2,4-Trichlorobenzene	ND	2.0
2,4,5-Trichlorophenol	ND	2.0
2,4,6-Trichlorophenol	ND	2.0

ppb = parts per billion = ug/L = micrograms per Liter
ND = Not detected. Compound(s) may be present at concentrations below the detection limit.
ND = Analysis not requested.

Laboratory Representative

December 28, 1992
Date Reported

Environmental Laboratories

RESNA
Working To Restore Nature

ANALYSIS REPORT

Attention: Ms. Sheryl Fontaine
RESNA
42501 Albrae St., Ste 100
Fremont, CA 94538
Project: 19513-L, F3125, Doric Const.
Sample ID: MW-3
Lab ID: W1212471

Date Sampled: 12-22-92
Date Received: 12-22-92
Date Extracted: 12-23-92
Date Analyzed: 12-23-92
Matrix: Water

EPA METHOD 8270

COMPOUND NAME	ug/L	MDL	COMPOUND NAME	ug/L	MDL
Acenaphthene	ND	2.0	1,3-Dichlorbenzene	ND	2.0
Acenaphthylene	ND	2.0	1,4-Dichlorobenzene	ND	2.0
Anthracene	ND	2.0	1,2-Dichlorobenzene	ND	2.0
Benzidine	ND	5	3,3-dichlorobenzidine	ND	10
Benzoic Acid	ND	2.0	2,4-dichlorophenol	ND	2.0
Benzo(a)anthracene	ND	2.0	Diethyl phthalate	ND	2.0
Benzo(b)fluoranthene	ND	2.0	2,4-Dimethylphenol	ND	2.0
Benzo(k)fluoranthene	ND	2.0	Dimethyl phthalate	ND	2.0
Benzo(g,h,i)perylene	ND	2.0	4,6-Dinitro-2-methylphenol	ND	10
Benzo(a)pyrene	ND	2.0	2,4-Dinitrophenol	ND	10
Benzyl alcohol	ND	2.0	2,4-Dinitrotoluene	ND	2.0
Bis(2-chloroethoxy)methane	ND	2.0	2,6-Dinitrotoluene	ND	2.0
Bis(2-chloroethyl)ether	ND	2.0	Di-N-octyl phthalate	ND	2.0
Bis(2-chloroisopropyl)ether	ND	2.0	Fluoranthene	ND	2.0
Bis(2-ethylhexyl)phthalate	ND	10	Fluorene	ND	2.0
4-Bromophenyl phenyl ether	ND	2.0	Hexachlorobenzene	ND	2.0
Butyl benzyl phthalate	ND	2.0	Hexachlorobutadiene	ND	2.0
4-Chloroaniline	ND	2.0	Hexachlorocyclopentadiene	ND	2.0
2-Chloronaphthalene	ND	2.0	Hexachloroethane	ND	2.0
4-Chloro-3-methylphenol	ND	2.0	Indeno(1,2,3-cd)pyrene	ND	2.0
2-Chlorophenol	ND	2.0	Isophorone	ND	2.0
4-Chlorophenyl phenyl ether	ND	2.0	2-Methylnaphthalene	ND	2.0
Chrysene	ND	2.0	2-Methylphenol	ND	2.0
Dibenz(a,h)anthracene	ND	2.0	4-Methylphenol	ND	2.0
Dibenzofuran	ND	2.0	Naphthalene	ND	2.0
Di-N-butyl phthlate	ND	10	2-Nitroaniline	ND	2.0

ppb = parts per billion = ug/L = micrograms per Liter
ND = Not detected. Compound(s) may be present at concentrations below the detection limit.
NR = Analysis not requested.

VM Tague
Laboratory Representative

December 28, 1992
Date Reported

Environmental Laboratories

RESNA
Working To Restore Nature

ANALYSIS REPORT

Attention: Ms. Sheryl Fontaine
RESNA
42501 Albrae St., Ste 100
Fremont, CA 94538
Project: 19513-L, F3125, Doric Const.
Sample ID: MW-3
Lab ID: W1212471

Date Sampled: 12-22-92
Date Received: 12-22-92
Date Extracted: 12-23-92
Date Analayzed: 12-23-92
Matrix: Water

EPA METHOD 8270

COMPOUND NAME	ug/L	MDL
3-Nitroaniline	ND	2.0
4-Nitroaniline	ND	2.0
Nitrobenzene	ND	2.0
2-Nitrophenol	ND	2.0
4-Nitrophenol	ND	10
N-Nitrosodiphenylamine	ND	2.0
N-Nitroso-di-N-propylamine	ND	2.0
Pentachlorophenol	ND	10
Phenanthrene	ND	2.0
Phenol	ND	2.0
Pyrene	ND	2.0
1,2,4-Trichlorobenzene	ND	2.0
2,4,5-Trichlorophenol	ND	2.0
2,4,6-Trichlorophenol	ND	2.0

ppb = parts per billion = ug/L = micrograms per Liter
ND = Not detected. Compound(s) may be present at concentrations below the detection limit.
ND = Analysis not requested.

Laboratory Representative

December 28, 1992
Date Reported

ANALYSIS REPORT

1020lab.frm

Attention: Ms. Sheryl Fontaine
RESNA
42501 Albrae St.
Fremont, CA 94538
Project: 19513-L,F3125, Doric Const.
Sample ID: Water Spike
Lab ID: NA

Date Sampled: 12-23-92
Date Received: 12-23-92
Date Analyzed: 12-23-92
Matrix: Water

EPA METHOD 8270 QA/QC SHEET
UNITS ug/L

COMPOUND NAME	MS	MSD	RPD	Limits
4CHLORO-3-METHYLPHENOL	68%	72%	5.7%	22%-147%
2CHLOROPHENOL	70%	70%	0	23%-134%
PENTACHLOROPHENOL	64%	66%	3.1%	14%-176%
PHENOL	36%	35%	2.8%	5%-112%
ACENAPHTHENE	85%	83%	2.4%	47%-145%
1,4-DICHLOROBENZENE	84%	84%	0	20%-124%
2,4-DINITROTOLUENE	75%	76%	1.3%	39%-139%
N-NITROSO-DI-n-PROPYLAMINE	93%	95%	2.1%	D-230%
PYRENE	55%	56%	1.8%	54%-120%
1,2,4-TRICHLOROBENZENE	66%	66%	0	44%-142%

ppb = parts per billion = µg/L= micrograms per Liter
RPD = Relative Percent Difference
D = Detectable

Laboratory Representative

December 28, 1992
Date Reported

RESNA

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

005849

PROJECT NO.	PROJECT NAME/SITE
F3125.31	Doric Construction

SAMPLERS (SIGN) S. Fontaine (PRINT) S. Fontaine

SAMPLE IDENTIFICATION	DATE	TIME	COMP	GRAB	PRES. USED	ICED	NO. CONTAINERS	SAMPLE TYPE	BTEX (602/8020)	TPHg (8015)	TPHd (8015)	TOG 418.1/5520	601/8010	624/8240	625/8270	TDS	REMARKS
mw-1	12/22	12:00	X			X	1	H_2O						X			W/212469
mw-1		12:15													X		
mw-2		1:00												X			470
mw-2		1:15													X		
mw-3		2:00												X			471
mw-3		2:15													X		

ANALYSIS REQUESTED

P.O. #:

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
RELINQUISHED BY: Sheryl Soto	DATE 12/22/92	TIME 3:40p	RECEIVED BY LABORATORY: Roberto Avila

LABORATORY:

REQUESTED TURNAROUND TIME: Normal per SF 12/23/92

RECEIPT CONDITION: cold

PLEASE SEND RESULTS TO: S. Fontaine

PROJECT MANAGER: C. Pischke

SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

RESNA	Client Project ID:	F3125.31, Doric Construction	Sampled:	Nov 30, 1992
42501 Albrae Street, Suite 100	Sample Descript:	Water, MW-1	Received:	Dec 11, 1992
Fremont, CA 94538			Extracted:	Dec 16, 1992
Attention: Anthony Enerio	Lab Number:	212-2441	Reported:	Dec 23, 1992

INORGANIC PERSISTENT AND BIOACCUMULATIVE TOXIC SUBSTANCES

Analyte	Soluble Threshold Limit Concentration (Waste Extraction Test) STLC Max. Limit (mg/L)	Detection Limit (mg/L)	Analysis Result (mg/L)	Total Threshold Limit Concentration TTLC Max. Limit (mg/L)	Detection Limit (mg/L)	Analysis Result (mg/L)
Antimony	15	0.0050	--	500	0.0050	--
Arsenic	5	0.0050	--	500	0.0050	--
Barium	100	0.10	--	10,000	0.10	--
Beryllium	0.75	0.010	--	75	0.010	--
Cadmium	1	0.010	--	100	0.010	--
Chromium (VI)	5	0.0050	--	500	0.0050	--
Chromium (III)	560	0.010	--	2,500	0.010	--
Cobalt	80	0.050	--	8,000	0.050	--
Copper	25	0.010	N.D.	2,500	0.010	N.D.
Lead	5	0.010	N.D.	1,000	0.010	N.D.
Mercury	0.2	0.00020	--	20	0.00020	--
Molybdenum	350	0.050	--	3,500	0.050	--
Nickel	20	0.050	--	2,000	0.050	--
Selenium	1	0.0050	--	100	0.0050	--
Silver	5	0.010	--	500	0.010	--
Thallium	7	0.0050	--	700	0.0050	--
Vanadium	24	0.050	--	2,400	0.050	--
Zinc	250	0.010	--	5,000	0.010	--
Asbestos	-	10	--	10,000	10	--
Fluoride	180	0.10	--	18,000	0.10	--

Asbestos results are reported as fibers/g.
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Maria Lee
Project Manager

2122441.ENS <1>

SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

RESNA	Client Project ID:	F3125.31, Doric Construction	Sampled:	Nov 30, 1992
42501 Albrae Street, Suite 100	Sample Descript:	Water, MW-2	Received:	Dec 11, 1992
Fremont, CA 94538			Extracted:	Dec 16, 1992
Attention: Anthony Enerio	Lab Number:	212-2442	Reported:	Dec 23, 1992

INORGANIC PERSISTENT AND BIOACCUMULATIVE TOXIC SUBSTANCES

Analyte	Soluble Threshold Limit Concentration (Waste Extraction Test) STLC Max. Limit (mg/L)	Detection Limit (mg/L)	Analysis Result (mg/L)	Total Threshold Limit Concentration TTLC Max. Limit (mg/L)	Detection Limit (mg/L)	Analysis Result (mg/L)
Antimony	15	0.0050	--	500	0.0050	--
Arsenic	5	0.0050	--	500	0.0050	--
Barium	100	0.10	--	10,000	0.10	--
Beryllium	0.75	0.010	--	75	0.010	--
Cadmium	1	0.010	--	100	0.010	--
Chromium (VI)	5	0.0050	--	500	0.0050	--
Chromium (III)	560	0.010	--	2,500	0.010	--
Cobalt	80	0.050	--	8,000	0.050	--
Copper	25	0.010	N.D.	2,500	0.010	N.D.
Lead	5	0.010	N.D.	1,000	0.010	N.D.
Mercury	0.2	0.00020	--	20	0.00020	--
Molybdenum	350	0.050	--	3,500	0.050	--
Nickel	20	0.050	--	2,000	0.050	--
Selenium	1	0.0050	--	100	0.0050	--
Silver	5	0.010	--	500	0.010	--
Thallium	7	0.0050	--	700	0.0050	--
Vanadium	24	0.050	--	2,400	0.050	--
Zinc	250	0.010	--	5,000	0.010	--
Asbestos	-	10	--	10,000	10	--
Fluoride	180	0.10	--	18,000	0.10	--

Asbestos results are reported as fibers/g.
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Maria Lee
Project Manager

2122441.ENS <2>

SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

RESNA	Client Project ID:	F3125.31, Doric Construction	Sampled:	Nov 30, 1992
42501 Albrae Street, Suite 100	Sample Descript:	Water, MW-3	Received:	Dec 11, 1992
Fremont, CA 94538			Extracted:	Dec 16, 1992
Attention: Anthony Enerio	Lab Number:	212-2443	Reported:	Dec 23, 1992

INORGANIC PERSISTENT AND BIOACCUMULATIVE TOXIC SUBSTANCES

	Soluble Threshold Limit Concentration (Waste Extraction Test)			Total Threshold Limit Concentration		
Analyte	STLC Max. Limit (mg/L)	Detection Limit (mg/L)	Analysis Result (mg/L)	TTLC Max. Limit (mg/L)	Detection Limit (mg/L)	Analysis Result (mg/L)
Antimony	15	0.0050	--	500	0.0050	--
Arsenic	5	0.0050	--	500	0.0050	--
Barium	100	0.10	--	10,000	0.10	--
Beryllium	0.75	0.010	--	75	0.010	--
Cadmium	1	0.010	--	100	0.010	--
Chromium (VI)	5	0.0050	--	500	0.0050	--
Chromium (III)	560	0.010	--	2,500	0.010	--
Cobalt	80	0.050	--	8,000	0.050	--
Copper	25	0.010	0.058	2,500	0.010	0.010
Lead	5	0.010	N.D.	1,000	0.010	0.034
Mercury	0.2	0.00020	--	20	0.00020	--
Molybdenum	350	0.050	--	3,500	0.050	--
Nickel	20	0.050	--	2,000	0.050	--
Selenium	1	0.0050	--	100	0.0050	--
Silver	5	0.010	--	500	0.010	--
Thallium	7	0.0050	--	700	0.0050	--
Vanadium	24	0.050	--	2,400	0.050	--
Zinc	250	0.010	--	5,000	0.010	--
Asbestos	-	10	--	10,000	10	--
Fluoride	180	0.10	--	18,000	0.10	--

Asbestos results are reported as fibers/g.
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Maria Lee
Project Manager

2122441.ENS <3>

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

RESNA
42501 Albrae Street, Suite 100
Fremont, CA 94538
Attention: Anthony Enerio

Client Project ID: P3125.31, Doric Construction
QC Sample Group: 2122441-3
Reported: Dec 23, 1992

QUALITY CONTROL DATA REPORT

ANALYTE	Lead STLC	Lead TTLC	Beryllium	Cadmium	Chromium	Nickel
Method:	EPA 7421	EPA 239.2	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7
Analyst:	S. Chin	S. Chin	M. Mistry	M. Mistry	M. Mistry	M. Mistry
Reporting Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Date Analyzed:	Dec 17, 1992	Dec 21, 1992	Dec 16, 1992	Dec 16, 1992	Dec 16, 1992	Dec 16, 1992
QC Sample #:	212-1844	BLK121692	BLK121692	BLK121692	BLK121692	BLK121692
Sample Conc.:	0.18	N.D.	N.D.	N.D.	N.D.	N.D.
Spike Conc. Added:	0.50	0.050	1.0	1.0	1.0	1.0
Conc. Matrix Spike:	0.70	0.050	0.99	0.94	0.98	0.96
Matrix Spike % Recovery:	104	100	99	94	98	96
Conc. Matrix Spike Dup.:	0.77	0.045	0.99	0.93	0.98	0.96
Matrix Spike Duplicate % Recovery:	118	90	99	93	98	96
Relative % Difference:	9.5	11	0.0	1.1	0.0	0.0

SEQUOIA ANALYTICAL

Maria Lee
Project Manager

% Recovery: $\frac{\text{Conc. of M.S. - Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$

Relative % Difference: $\frac{\text{Conc. of M.S. - Conc. of M.S.D.}}{(\text{Conc. of M.S. + Conc. of M.S.D.})/2} \times 100$

RESNA

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

095845

PROJECT NO.	PROJECT NAME/SITE
F3125,31	Doric Construction 500 Maitland Alameda

SAMPLERS (SIGN) _____ (PRINT) Robin Sutherland

SAMPLE IDENTIFICATION	DATE	TIME	COMP	GRAB	PRES. USED	ICED	NO. CONTAINERS	SAMPLE TYPE
MW-1 W1212211	11-30-92	11:00		X	None	Y	2	W
MW-3 212	↓	12:00		X	↓	↓	2	↓
MW-2 ↓ 213		13:00		X	↓	↓	2	↓

ANALYSIS REQUESTED

BTEX (602/8020)	TPHg (8015)	TPHd (8015)	TOG 418.1/5520	601/8010	624/8240	625/8270	STLC (Pb,Cd)	TTLC (Pb,Cd)	
							X	X	
							X	X	
							X	X	

P.O. #:

REMARKS: Filter & Preserve If Necissary

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
RELINQUISHED BY: Robin Sutherland	DATE 12/11/92	TIME 7:00	RECEIVED BY LABORATORY:

LABORATORY: Resna

REQUESTED TURNAROUND TIME: Normal

RECEIPT CONDITION: good

PLEASE SEND RESULTS TO: S. Fontaine

PROJECT MANAGER: