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**PHASE II
SOIL AND GROUNDWATER
INVESTIGATION**

FOR

**HARBOR BAY ISLE ASSOCIATES
500 MAITLAND DRIVE
ALAMEDA, CALIFORNIA**

**Project No. F3125.31
October 1992**

RESNA
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February 11, 1993
Project No. F3125.31

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

Attention: Mr. Aidan Barry

Subject: Phase II Soil and Groundwater Investigation
Harbor Bay Isle Associates
500 Maitland Drive, Alameda, California

Dear Mr. Barry:

RESNA Industries Inc., has completed a Phase II soil and groundwater investigation at the above referenced site. The results of the investigation are presented in the attached report. The investigation consisted of: drilling of three exploratory borings, converting the boring to groundwater monitoring wells, soil and groundwater sampling, and chemical analyses of selected soil and clay pigeon samples. In addition, soil cuttings were placed on and covered with visqueen, and well development and sampling water were placed in labeled 55-gallon drums for later disposal.

Based on the conclusions presented in the attached report, RESNA recommends additional work be done at the site to evaluate options for remediation and/or disposal of the lead-/PNA-bearing soil. This would be separated into the following two tasks:

Task 1

- Determine the background level of lead in the soil for the region;
- Compare the background levels to the laboratory results from this investigation;
- Delineate lateral extent of lead-bearing soil
- Discuss with the governing regulatory agencies to determine what the regulatory framework will be for this site. This may include modelling, determining regulatory criteria based on the results in this report, and determining site specific action levels based on the observed concentrations.

Phase 2

- Conduct a feasibility study/health risk assessment to determine how to meet regulatory criteria. Options for remediation/disposal may include, but are not limited to the following:
 - Removal of all soil containing lead.
 - Removal of soil in areas of TTLC concentrations greater than 1,000 ppm.
 - Capping of the site with asphalt;
 - Binding the lead and/or PNA's into the existing soil.
- Install monitoring wells on corners to monitor movement.

If you have any questions or comments concerning this report, please contact the undersigned at (510) 440-3300.

Sincerely,
RESNA Industries Inc.

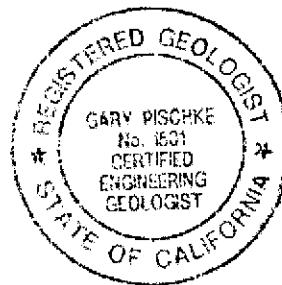


Sheryl Fontaine
Staff Geologist

SF/GP/sw
Attachment



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



**PHASE II
SOIL AND GROUNDWATER INVESTIGATION**

FOR

**HARBOR BAY ISLE ASSOCIATES
500 MAITLAND DRIVE
ALAMEDA, CALIFORNIA**

INTRODUCTION

At the request of Harbor Bay Isle Associates, RESNA Industries Inc. has completed a Phase II soil and groundwater investigation to assess potential contamination in the vicinity of the Former Island Gun Club, located at 500 Maitland Drive, Alameda, California (see Plate 1).

The field investigation for the drilling of exploratory borings, monitoring well installation, and near surface soil sampling was started on September 3, 1992 and finished on September 8, 1992.

This report presents a brief background of the site, the scope of work, a description of the field investigation, sample analyses results, a summary of findings, discussion, and regulatory reporting requirements.

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 from 1926 to approximately 1986. When the range first opened, the site had standing water for most of the non-summer months. In the early 60's, fill material was imported and added to the property. The fill material was derived from builders who wanted to dispose of excess soil from their construction sites (RESNA Proposed Work Plan, March 24, 1992; Kleinfelder, 1990; Exceltech, 1990).

The locations for the three exploratory borings, all of which were converted to groundwater monitoring wells, was based on the most suspect locations of shell fragments and clay pigeon debris, in order to assess the extent of copper, lead, and polynuclear aromatic (PNA) concentrations. Drilling of exploratory borings and conversion to groundwater monitoring wells was performed on September 3 and 4, 1992. Soil and groundwater samples were collected from the borings and groundwater monitoring wells and analyzed for copper, lead, and PNA's. Fifteen near surface soil samples were taken on September 4 and 8, 1992, and were analyzed for copper and lead. Ten of the fifteen near-surface soil samples were also analyzed for PNA content.

Chemical analysis detected the presence of copper, lead, and PNA's in the soil and groundwater beneath the site.

SCOPE OF WORK

The scope of work for this project included:

- Coordination and permitting with proper regulatory agencies;
- Sampling of an off-site well (owned by Normandy Homeowners) to be used as regional water quality data;
- Drilling and logging of three exploratory borings;
- Soil sampling for laboratory analyses;
- Conversion of the three boreholes to groundwater monitoring wells (MW-1 through MW-3);
- Collection of 15 near surface soil samples (locations selected by simple random sampling plan) for laboratory analysis;
- Development of the three newly installed groundwater monitoring wells;
- Sampling of the three groundwater monitoring wells for laboratory analysis;
- Survey of the groundwater monitoring wells and related area of the site;
- Review and analyses of the analytical results; and
- Preparation of this report.

FIELD OPERATIONS

The field operations for this project included: drilling, sampling, and logging of exploratory borings; groundwater monitoring well construction, development and sampling; collecting 15 near surface soil samples; and a site survey.

Exploratory Borings

Prior to drilling, USA was contacted to clear utilities in public right of ways. A private line location company was not contracted to clear the boring locations on private

property, therefore the drillers used a hand auger for the initial five feet of each boring.

Drilling was conducted under well Permit No. 92435, Zone 7 (see Appendix B). On September 3, 1992, an Exploration Geoservices Mobil B-40L22 drilling rig equipped with 8-inch-outside-diameter hollow-stem augers was used to drill two of the soil borings required for soil sampling and monitoring well installation. On September 4, 1992, due to a drainage ditch on the site, a limited access specialty drilling rig from Exploration Geoservices was used to drill the third boring. The borings were logged by a RESNA geologist and the soil described and classified according to the Unified Soil Classification System. Prior to beginning work, and between borings, all drilling and sampling equipment was cleaned to reduce the potential for cross-contamination between borings and between sampling intervals.

Soil sampling was attempted at approximate two foot depth intervals during drilling or when directed by the RESNA geologist. When the desired sample depth was reached, a California split-spoon sampler, equipped with three clean brass liner tubes each 6 inches long and 2 inches in diameter was used to collect and retain the samples. The California split-spoon sampler would not fit on the limited access rig and therefore a modified California split-spoon sampler was used. The inside diameter of this sampler was 2.5 inches and therefore 2.5 inch diameter brass liners were used for MW-3. The sampler was driven 18 inches into the undisturbed material ahead of the auger by driving it with a 140-pound rig-operated hammer. This hammer does not fit on the limited access rig used on September 4, therefore the mobil overshot sample system (MOSS) was used whereby the sample liners are pushed into the soil along with the auger. For this reason, blow counts were not recorded for MW-3. After recovery from the borehole and the sampler, the bottom sample liner was immediately covered with aluminum foil and a plastic end cap, labeled with a unique sample number and pertinent sample information, and packed into cooler chilled with ice. The material in the remaining sample liners was visually characterized and tested with a portable organic vapor monitor (OVM) for the presence of volatile organic vapors. Upon completion of field characterization, the examined soil sample was placed with the borehole cuttings which were placed on and covered by visqueen. Disposal is pending laboratory results.

Exploratory borings were drilled to depths of 14 feet (see Appendix C). In all borings, groundwater was encountered at depths of between 5 and 6 feet below grade.

Groundwater Monitoring Well Construction

Upon completion of the selected exploratory boreholes, a groundwater monitoring well was constructed in each borehole. The monitoring wells were constructed using 2-inch-diameter schedule 40 polyvinyl chloride (PVC) blank and factory-slotted casing with 0.02-inch slot size. Only flush-threaded couplings were used; no solvents or cements were used during well construction. The screened interval of the monitoring well was

determined in the field, by the RESNA geologist, based on the lithology of the uppermost saturated zone and depth of groundwater.

After the casing was installed, clean No. 2/12 sand was poured through the auger, as the auger was being removed, to fill the annulus between the casing and the borehole wall to between 1 to 2 feet above the top of the screened interval. Approximately 1 foot of 1/4-inch bentonite pellets were then placed on top of the sand and hydrated to form a seal. A sand slurry concrete seal was placed in the remaining annulus to within 1/2 foot of the surface. A water-tight, traffic rated, protective vault was then placed over the well at ground level and the space around the cover was filled in with sand slurry concrete. All monitoring wells were equipped with an expansion type locking well cap and an aluminum identifying label. Well construction details are included in Appendix C.

Soil Sampling

On September 3 and 4, 1992, a representative of RESNA randomly collected 30 near surface soil samples following guidelines presented in Chapter 9 of the United States Environmental Protection Agency (EPA) Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846 (EPA, 1986). An imaginary grid containing 61 cells was superimposed on the site and 15 cells were chosen randomly using the random function on a Hewlett Packard HP15C calculator (see Plate 3). Two samples each from cells 3, 7, 9, 18, 19, 22, 24, 27, 28, 34, 38, 43, 48, 54, and 61 were collected and analyzed for copper and lead. Samples from all cells except 3, 7, 9, 18, and 19 were also analyzed for PNA's using EPA Method 8250 (equivalent to 8270). The samples were taken by a RESNA geologist using a hand-driven impact hammer lined with 2 1/2 inch brass liners. Samples were taken from 0 to 6 inches and from 6 to 12 inches by manually driving the hammer into the soil thereby filling the brass liner. The two samples from each cell were composited into one sample by the laboratory. After recovery from the borehole and the sampler, the sample liner was immediately covered with aluminum foil and a plastic end cap, labeled with a unique sample number and pertinent sample information, packed into cooler chilled with ice, documented on a chain-of-custody form, and delivered to RESNA Environmental Laboratories in Fremont, California, a state-certified laboratory, for analysis. The results from the analyses are shown in Table 2.

Well Development and Groundwater Sampling

On September 1, 1992, an off-site well at 22 Christensen Court, Alameda, California (owned by Normandy Homeowners), was sampled and analyzed for copper and lead (soluble threshold limit concentration [STLC] and total threshold limit concentration [TTLC] methods), total dissolved solids (TDS), and polynuclear aromatics (PNA's), for use as regional water quality data. The samples were poured into the proper laboratory

supplied containers, labeled with a unique sample number, entered onto a chain-of-custody form, placed in a cooler chilled with ice, and delivered to RESNA Environmental Laboratories in Fremont, California for analysis. Results are shown in Table 3.

On September 8, 1992, each newly installed well was developed to remove fine-grained material and turbid water, and to improve the hydraulic communication with the surrounding formation. A surge block and hand bailer was used to develop the wells. Between ten and twenty well volumes of groundwater were removed from each well.

On September 16, 1992, the wells were purged of approximately four more well volumes prior to sampling. Groundwater samples were collected using a clean teflon bailer. The water samples from each well were poured into the proper laboratory-supplied containers, labeled with a unique sample number, placed in a cooler chilled with ice, entered onto a chain-of-custody form, and delivered to RESNA Environmental Laboratories in Fremont, California for analysis. Results are shown in Table 3.

Site Survey

The elevations of the PVC well casings and the adjacent ground surface were surveyed on September 10, 1992, by Ron Archer Civil Engineers, Inc., a licensed surveyor from Pleasanton, California. The elevations were recorded to the nearest 0.01 foot relative to mean sea level (MSL). The reference benchmark was located in the top of a curb at an existing catch basin at the southwesterly corner of the intersection of Maitland Drive and Harbor Bay Parkway. Elevation was taken at 4.68 feet above mean sea level.

The location of the monitoring wells, and significant site features were surveyed. A copy of original survey map is included in Appendix D.

SITE HYDROGEOLOGY

Exploratory borings for the purpose of soil sampling, subsurface stratigraphic information, and groundwater monitoring well installation were drilled to depths of 14 feet. Although some variability was observed, all borings generally encountered 3 to 5 feet of interbedded gravelly sands which was interpreted as fill. Below these strata, a silty sand was encountered, which increased in clay content with depth to between 9 and 11 feet below grade. Water was encountered within this strata. Clay content increased at 9 to 11 feet below grade. This continued until the bottom of the borings at 14 feet.

Groundwater was encountered at depths of approximately 4 to 6 feet and stabilized in the monitoring wells at depths of between 4.43 and 5.73 feet below the surface. The apparent groundwater flow direction is to the north at a gradient of approximately 0.005 (see Plate 5).

SUMMARY OF ANALYTICAL RESULTS

All soil and groundwater samples were analyzed for copper and lead (STLC and TTLC methods). Groundwater samples, soil samples from the exploratory borings, and ten of the fifteen near-surface soil samples were also analyzed for polynuclear aromatics (PNA's). Groundwater samples were analyzed for salinity (total dissolved solids) as well. Tabulated results for all laboratory analyses are presented in Tables 1 and 2. Laboratory reports and chain-of-custody records for soil and groundwater samples are included in Appendix E.

Soil Samples

Table 1 summarizes the ranges of compounds detected in the laboratory results for the 28 soil samples:

TABLE 1
 Soil Sample Analytical Summary

Compound	Number of Samples (A)	Lowest Concentration (B)	Sample Number (C)	Highest Concentration (D)	Sample Number (E)
Copper (STLC)	28	0.057	MW-2-2	18	34-1,2
Lead (STLC)	17	0.29	MW-3-1	210	28-1,2
Copper (TTLC)	28	3.1	MW-2-2	120	28-1,2
Lead (TTLC)	17	9.9	48-1,2	40,000	28-1,2
acenaphthene	4	1,300	34-1,2	33,000	24-1,2
anthracene	3	16,000	22-1,2	26,000	38-1,2
			24-1,2		
benzo(a)anthracene	7	270	43-1,2	260,000	38-1,2
benzo(b)fluoranthene	7	120	54-1,2	380,000	24-1,2
benzo(k)fluoranthene	4	1,300	MW-3-2	220,000	24-1,2
benzo(g,h,i)perylene	5	2,800	MW-3-2	200,000	24-1,2
benzo(a)pyrene	5	120	54-1,2	410,000	24-1,2
chrysene	7	240	43-1,2	140,000	24-1,2
di-n-butylphthlate	2	150	61-1,2	250	43-1,2
di-n-octylphthlate	1	NA	NA	460	61-1,2
dibenz(a,h)anthracene	4	9,700	34-1,2	210,000	24-1,2
dibenzofuran	3	1,700	38-1,2	2,200	22-1,2
					24-1,2
fluoranthene	5	280	43-1,2	130,000	24-1,2
fluorene	3	4,500	22-1,2	5,200	38-1,2
indeno(1,2,3-cd)pyrene	4	12,000	34-1,2	200,000	22-1,2
					24-1,2
2-methylnaphthalene	1	NA	NA	1,800	38-1,2
naphthalene	2	1,400	38-1,2	8,900	24-1,2
n-nitrosodiphenylamine	1	NA	NA	560	43-1,2
phenanthrene	5	320	61-1,2	72,000	38-1,2
pyrene	4	2,500	MW-3-2	120,000	24-1,2

- A Number of samples containing compound (28 total)
- B Lowest concentration detected above detection limit, in parts per million for copper and lead, and in parts per billion (ppb) for the PNA's
- C Sample number associated with lowest concentration detected
- D Highest concentration detected in parts per million for copper and lead, and in parts per billion (ppb) for the PNA's
- E Sample number associated with highest concentration detected

28

24
22
38

- Copper

The laboratory analyses indicated that the copper levels at the site range from 0.057 parts per million (ppm) in sample number MW-2-2 to 18 ppm in sample number 34-1,2, using STLC method, and from 3.1 ppm in sample number MW-2-2 to 120 ppm in sample number 28-1,2 using TTLC method.

- Lead

The lead concentrations ranged from 0.29 parts per million (ppm) in sample MW-3-1 to 210 ppm in sample 28-1,2 (STLC method) and from 9.9 ppm in sample 48-1,2 to 40,000 ppm in sample 28-1,2 (TTLC method).

- Polynuclear aromatics

The soil at the site contained twenty of the sixty-six polynuclear aromatics (PNA's) that were included as part of the laboratory analysis. A listing of these constituents is included in Tables 1 and 2. In general, the constituents with the lowest concentration detected were benzo(a)pyrene and benzo(b)fluoranthene at 120 parts per billion (ppb), both in soil sample number 54-1,2. The constituent with the highest concentration detected was benzo(a)pyrene at 410,000 ppb, found in soil sample number 24-1,2.

Clay Pigeons

The clay pigeon samples were analyzed for PNA's and contained two to ten times the levels that the soil samples contained. The results are summarized below:

<u>Compound</u>	<u>Concentration in parts per billion</u>
acenaphthene	2,200,000
anthracene	100,000
benzo(a)anthracene	1,300,000
benzo(b)fluoranthene	2,200,000
benzo(k)fluoranthene	980,000
benzo(g,h,i)perylene	380,000
benzo(a)pyrene	2,700,000
chrysene	1,300,000
dibenz(a,h)anthracene	1,500,000
diethylphthlate	27,000
fluoranthene	1,200,000
indeno(1,2,3-cd)pyrene	320,000
naphthalene	95,000
phenanthrene	370,000
pyrene	1,500,000

Groundwater Samples

The off-site well was sampled and analyzed for copper and lead (STLC and TTLC methods), salinity, and PNA's. The laboratory results indicated the presence of copper and lead (from TTLC) at 0.023 milligrams per litre (parts per million, ppm) and 0.02 ppm, respectively. Salinity was detected at 400 ppm.

Groundwater samples from the on-site wells were analyzed for copper and lead (using STLC and TTLC), salinity (TDS), and PNA's. The laboratory analyses indicated that the groundwater at the site did not contain detectable amounts of PNA's. In addition, the results showed STLC-copper levels as ND (not detected at or above laboratory detection levels) for groundwater samples from MW-1 and MW-2, and as 0.016 milligrams per litre (parts per million, ppm). STLC-lead levels were below detection levels for all wells, TTLC-copper levels ranged from 0.027 ppm in MW-1 to 0.31 ppm in MW-3., and TTLC-lead levels ranged from 0.013 ppm in MW-1 to 0.087 ppm in MW-3. Salinity levels in the groundwater at the site ranged from 2,200 ppm to 4,800 ppm.

DISCUSSION

Stratigraphy and Groundwater Occurrence

During drilling of the three exploratory borings, between three and five feet of sand-silt-gravel mixture was encountered in all three borings. This was believed to represent the fill material that was imported to the area in the 1960's. Below this fill material was between four and six feet of silty sand to sandy silt, with increasing clay content with depth. Groundwater was encountered within this unit, at approximately five feet. Underlying this was a layer of sandy clays, with some silt, which continued to the bottom of the borings.

During drilling (September 3-4, 1992), groundwater was first encountered at approximately four feet, five and a half feet, and six and a half feet below the surface, in monitoring wells MW-1, MW-2, and MW-3, respectively. On September 8, 1992, when the wells were developed, the depth to groundwater had increased in MW-1 to 5.73 feet, and decreased in MW-3 to 4.43 feet. The level had not changed significantly in MW-2. On September 16, 1992, when the wells were sampled, the depth to water had decreased in MW-1 to 5.18 feet, and decreased in MW-3 to 4.23 feet. These fluctuations in groundwater level may represent the affect of the tides on the groundwater. This is further suggested by the proximity of the site to the bay (approximately 1 1/2 miles), the relatively shallow level of the groundwater, and the high salinity levels (TDS).

Contaminant Distribution

Groundwater

- **Total Dissolved Solids (TDS)**

Results of the laboratory analysis of groundwater samples indicated salinity (TDS) levels slightly lower than those of the bay waters in the region. Salinity levels for sea water range from 28,000 to 34,000 parts per million, and the bay levels decrease from this level near the sea to close to zero to the south.

- **Copper**

Levels of copper in the groundwater at the site ranged from ND (not detected at or above laboratory detection levels) in MW1, MW-3, and off-site well MW-1 to 0.016 parts per million in MW-2. This level is within the established guidelines (2.9 ppb, maximum concentration, 1-hour average) for Saltwater Aquatic Life Protection, as set by the United States Environmental Protection Agency (U.S. EPA) for National Ambient Water Quality Criteria (Marshack, CRWQCB-CVR, *Water Quality Goals*, September 1991).

- **Lead**

Laboratory results indicated no detectable levels of lead using the STLC method and levels ranging from 0.013 (13 ppb) parts per million (ppm) in sample MW-1 to 0.087 ppm (87 ppb) in sample MW-3. These levels are above the guidelines set by the California Ocean Plan's Numerical Water Quality Objectives for Marine Aquatic Life Protection (2 ppb, 6-month median). These levels indicate that the lead has leached into the groundwater underneath the site.

- **Polynuclear aromatics (PNA's)**

Results of the polynuclear aromatic analysis on groundwater samples showed no detectable levels of PNA contamination in the groundwater at the site.

These results indicate that the highest concentrations of copper and lead contamination, while not above regional guidelines, are in the vicinity of groundwater monitoring well MW-3, which is located within the clay pigeon debris, on the west side of the site.

Soil

- Copper

Copper concentration levels above laboratory detection limits were detected in all soil sample from the site in both STLC and TTLC methods. The highest concentrations detected were from sample number 34-1,2. Other high levels were detected in samples MW-2-1, 43-1,2, 27-1,2, 09-1,2, and 07-1,2. These results indicate that copper contamination extends throughout the site. Maximum limits for copper concentrations in soil, as set by the California Environmental Protection Agency (CAL EPA) under Title 22 of the California Administrative Code (CAC), are 25 parts per million (ppm) for STLC method and 2,500 ppm for TTLC method. The concentrations detected in sample 34-1,2 were 18 ppm and 120 ppm for STLC and TTLC, respectively. These are below the established maximum limits.

- Lead

The laboratory results for lead in the soil indicate that the highest levels of lead concentrations in the soil at the site are found in sample number 28-1,2 for both STLC and TTLC methods. Other high levels for both methods were also detected in sample numbers MW-3-2, 38-1,2, 22-1,2, 24-1,2, 61-1,2, 43-1,2, 27-1,2, and 9-1,2. This indicates widespread lead contamination throughout the site (see Plate 4). The maximum limits for lead in soil are 5 and 1,000 parts per million (ppm) for STLC and TTLC methods, respectively (Title 22 of CAC, CAL EPA). The concentrations of lead detected in sample 28-1,2 were 19 ppm and 40,000 ppm for STLC and TTLC, respectively. These are above the maximum limits allowed in soil. Eight of the samples contained lead above the maximum limits for the STLC method and sample 28-1,2 was the only sample with concentrations exceeding the TTLC maximum limit.

- PNA's

Laboratory analytical results for polynuclear aromatics (PNA's) show high levels (>5,000 ppb) in samples 38-1,2, 22-1,2, 34-1,2, and 24-1,2. While there were some constituents detected in other samples, this indicates that PNA distribution in the soil is concentrated primarily in the western half of the site, in the vicinity of the clay pigeon debris (see Plate 4). Concentrations of benzo(a)pyrene (a representative PNA) in the soil range from 120 parts per billion (ppb), to 410,000 ppb. Results for the clay pigeon analysis indicated concentrations from two to ten times the concentrations detected for the soil samples. Combined results suggest that the PNA compounds are leaching into the underlying soil, but have not yet reached the groundwater. Most of the PNA's are very slightly soluble in water, but are carcinogenic. There are no established guidelines as to acceptable PNA concentrations in soil, however, the Water Quality Goals for Constituents- Marine Resources, have established an acute toxicity level of 300 parts per billion (ppb) for the sum of polynuclear aromatics and a human health protection (30-

day average) level of 0.0088 ppb for the sum of acenaphthene, anthracene, benz(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(g,h,i)perylene, benzo(a)pyrene, chrysene, dibenz(a,h)anthracene, fluorene, indeno(1,2,3-cd)pyrene, phenanthrene, and pyrene (Marshack, CRWQCB-CVR, *Water Quality Goals*, September 1991). These levels are for groundwater.

Based on laboratory results, the high lead concentrations appear to be spread throughout the site, and the PNA's seem to be concentrated in the western half of the site. This may indicate that the two compounds are not being leached from the same source.

CONCLUSIONS

Based on the laboratory results and the available information on toxicity levels of lead and PNA's, it appears as though the subject site contains areas of soil that may be considered hazardous waste. The extent of PNA contamination is primarily contained in the clay pigeon debris area, but the lead extends over more than half of the site.

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

REFERENCES

- Kleinfelder May 13, 1990. *Phase I Environmental Assessment Report, Island City Gun Club, 500 Heitland Drive, Alameda, California.*
- RESNA Industries, Inc., March 1992 *Work Plan for a Soil and Groundwater Investigation for Harbor Bay Isle Associates Site, 500 Maitland Drive, Alameda, California.*
- Exceltech, August 28, 1990., *Review of Environmental Site Assessment Conducted at Island City Gun Club, 500 Heitland Drive, Alameda, California.*
- Marshack, Jon B., CRWQCB-CVR, September 1991 *A Compilation of Water Quality Goals.*

LIMITATIONS

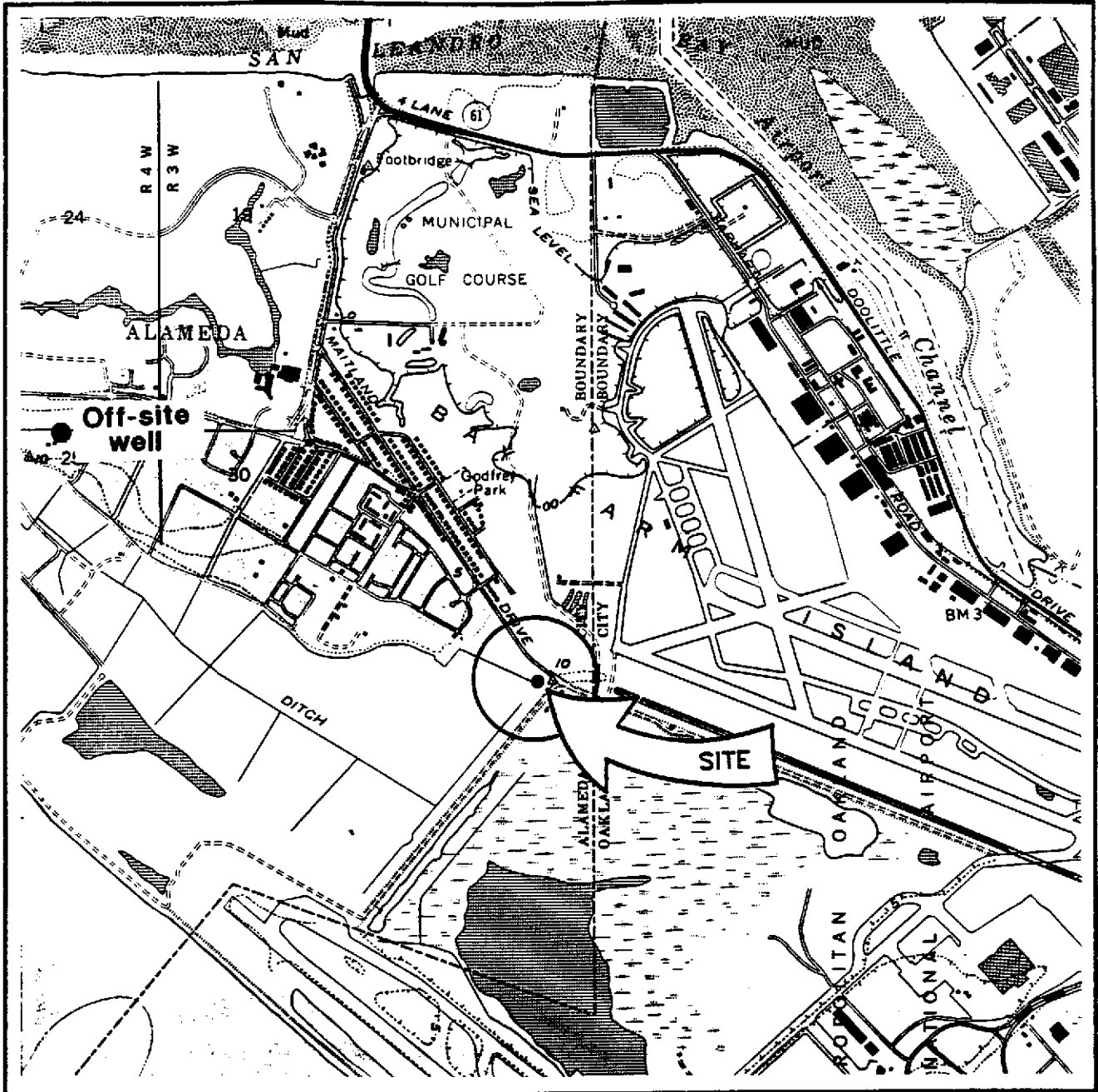
The discussion and recommendations presented in this report are based on the following:

1. Observations by field personnel.
2. The results of the laboratory analyses performed by a state-certified laboratory.
3. Referenced documents.
4. Our understanding of the regulations of the State of California, County of Alameda, and the City of Alameda

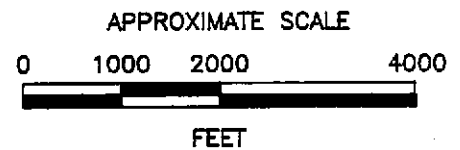
It is possible that variations in the soil or groundwater conditions could exist beyond the points explored in this investigation. Also, changes in the groundwater conditions could occur at some time in the future because of variations in rainfall, temperature, regional water usage, acts of man, or other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

The service performed by RESNA has been conducted in a manner consistent with the level of care and skill ordinarily exercised by members of our profession practicing under similar conditions in the Alameda County area. Please note that contamination of soil and 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 tests are performed according to procedures suggested by the U.S. EPA and State of California.



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



RESNA	SITE LOCATION MAP	PLATE 1
	FORMER ISLAND GUN CLUB SITE	
	500 MAITLAND DRIVE	
PROJECT NO. F3125.31	ALAMEDA, CALIFORNIA	

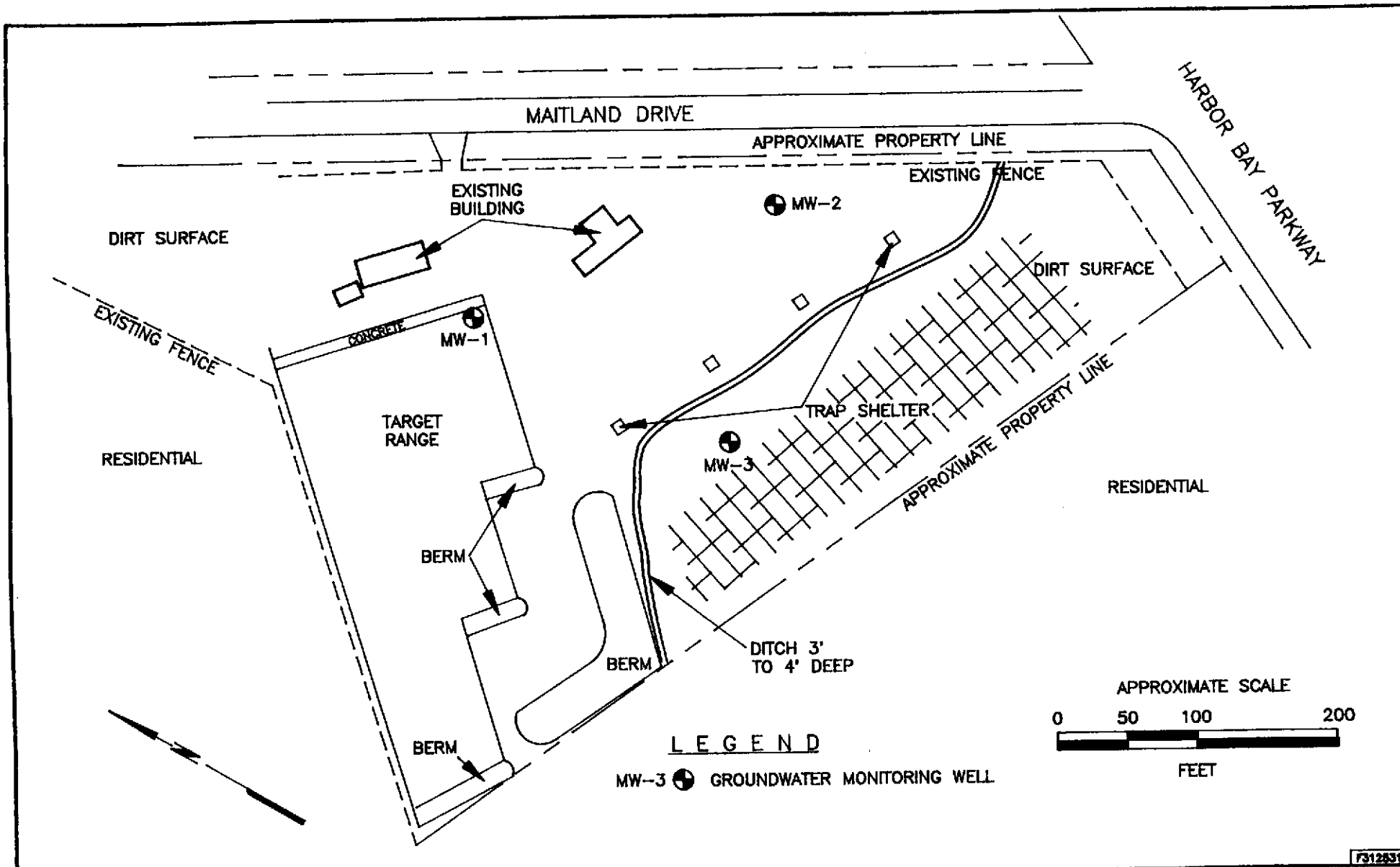
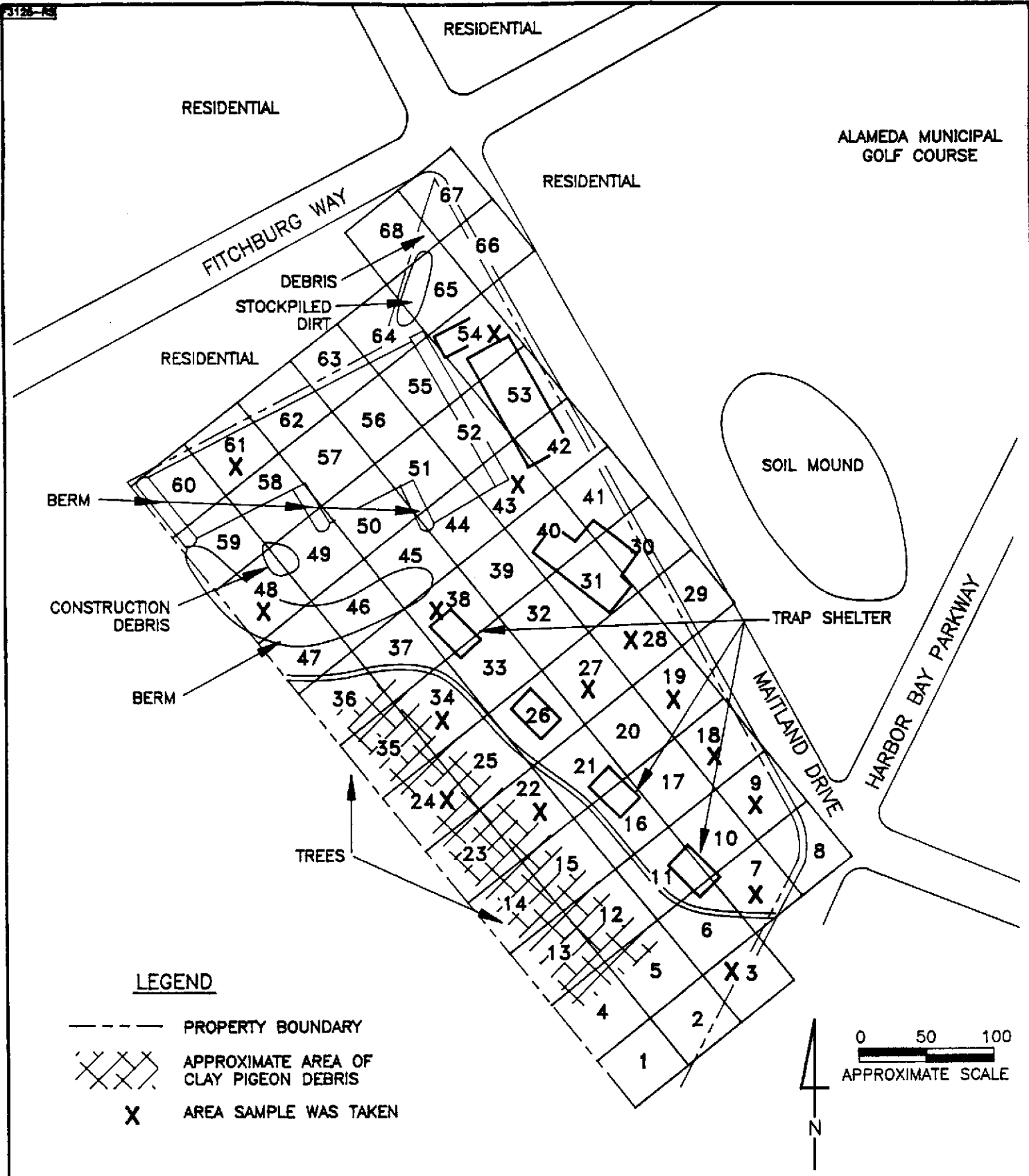


PLATE
2

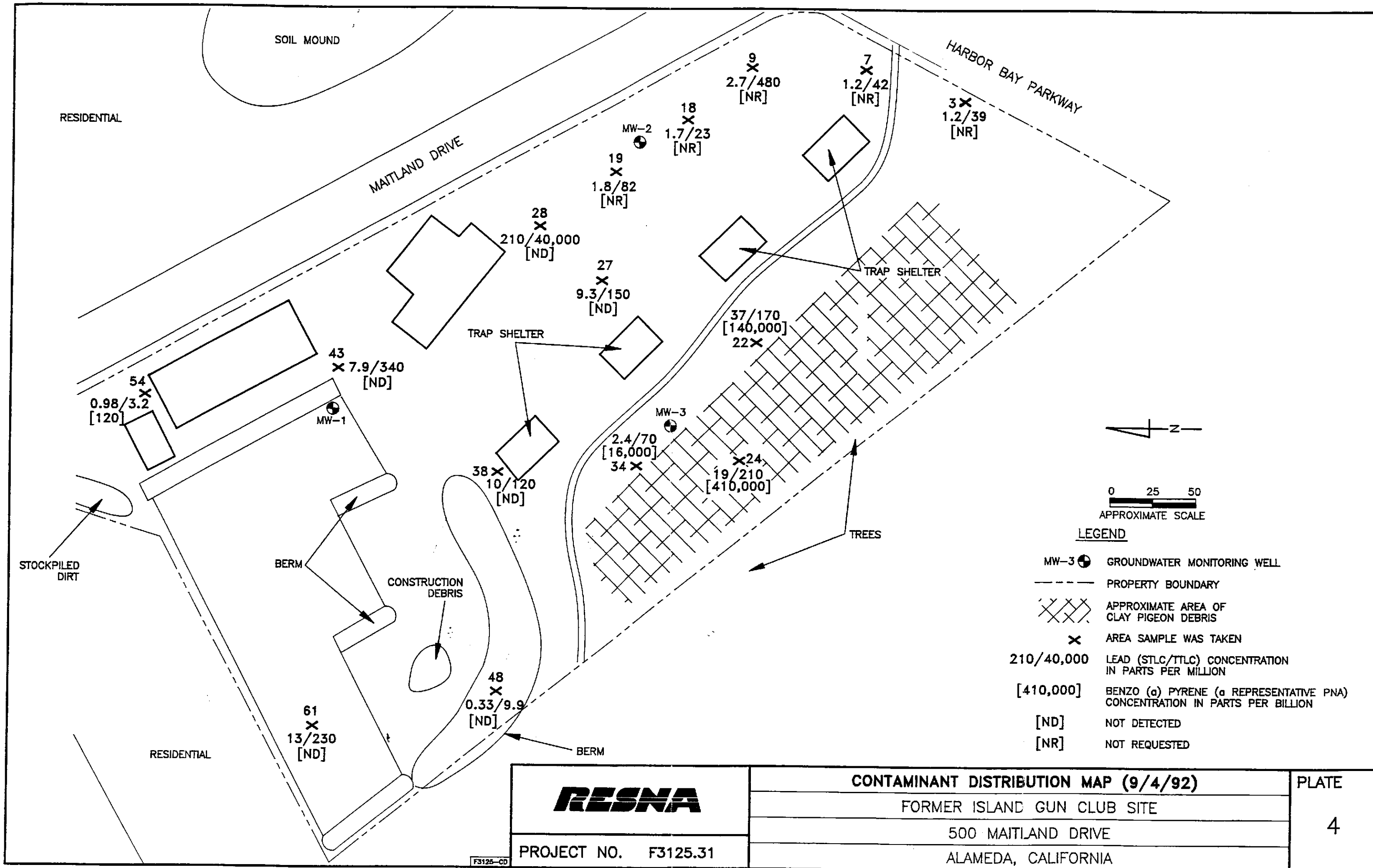
SITE PLAN
 FORMER ISLAND GUN CLUB SITE
 500 MAITLAND DRIVE
 ALAMEDA, CALIFORNIA

RESNA

PROJECT NO. F3125.31



RESNA	RANDOM SAMPLING MAP	PLATE 3
	FORMER ISLAND GUN CLUB SITE	
	500 MAITLAND DRIVE ALAMEDA, CALIFORNIA	
PROJECT NO. F3125.31		



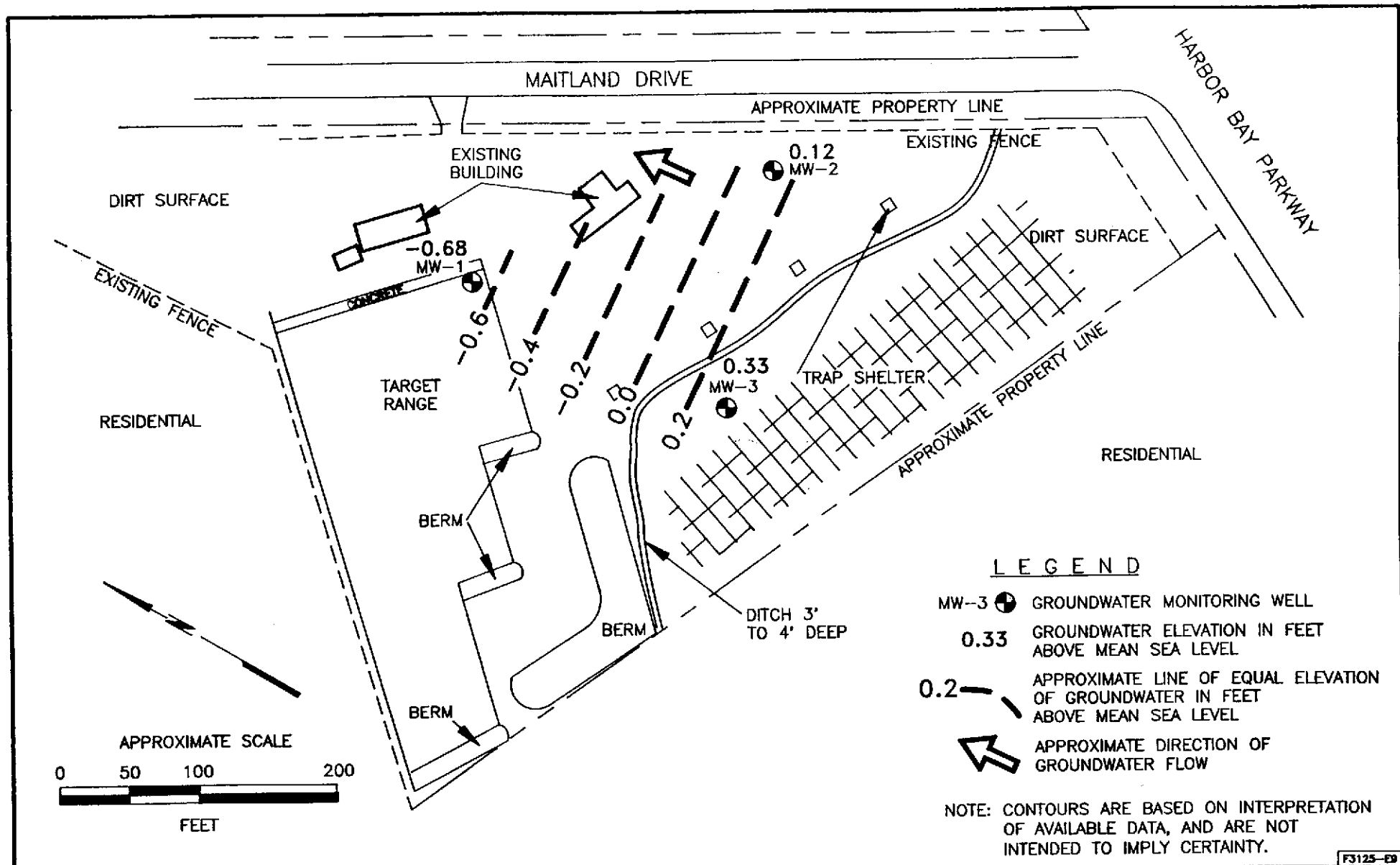



PLATE 5	GROUNDWATER POTENTIOMETRIC SURFACE MAP (9/16/92)	 PROJECT NO. F3125.31
	FORMER ISLAND GUN CLUB SITE	
	500 MAITLAND DRIVE	
	ALAMEDA, CALIFORNIA	

APPENDIX A

**SOIL AND GROUNDWATER SAMPLING
PROTOCOLS**



RESNA

Soil Sampling Protocol

SOIL SAMPLING PROTOCOL

I. SOIL SAMPLING BY DRILLING RIG

- 1) Review site proposal for boring locations and special instructions. Confirm boring locations in field with client. Have Underground Service Alert (USA) mark utilities in area prior to drilling.
- 2) Prior to initiating an exploratory boring, all equipment to be used during drilling and sampling operation is steam cleaned. Such equipment includes, but is not limited to, augers, bits, drilling rod, and soil samplers. Additionally, before each sampling event, the sampler and any sample liners are thoroughly cleaned with a dilute trisodium phosphate solution and rinsed with clean tap water or distilled water. Additional decontamination procedures are implemented as needed by specific projects.
- 3) Each exploratory boring is drilled with a truck-mounted drilling rig using either solid flight or hollow stem augers. The boring is advanced to the desired sampling depth and the sampler is lowered to the bottom of the hole. The sampler is driven a maximum of 18 inches into the undisturbed soils ahead of the auger by a 140-pound, rig-operated hammer falling 30 inches. The number of blows required to drive the sampler the final 12 inches is recorded on the boring log. When necessary, the sampler may be pushed by the drill rig hydraulics. In this case, the pressure exerted (in pounds per square inch) is recorded. After the sampler has penetrated the full depth, it is retrieved to the surface.
- 4) The samplers commonly used are either a California modified sampler (3 inch or 2.5 inch O.D.) or a standard penetrometer (2 inch O.D.). The standard penetrometer does not contain sample liners and is used to determine soil strength characteristics and visually characterize the subsurface materials. If samples are collected for laboratory analysis the California modified sampler, equipped with brass liners, is used except when the analysis will include copper or zinc. In this instance, the sample should be taken with the standard penetrometer and placed in a labeled plastic bag.

Upon retrieval, the sampler is disassembled into its component parts. One or more of the liners is selected for chemical analysis. The ends of the selected liner(s) are sealed with aluminum foil or teflon tape, capped with plastic caps, labeled, logged on chain-of-custody forms and stored in a chilled ice chest for preservation in the field and during transport to the analytical laboratory. All labels are pre-written to the extent possible with indelible ink to minimize handling time.

- 5) Samples not sealed for chemical analysis are checked for the presence of contamination in the field by the geologist. Any discoloration or odor is noted on the boring log. Each sample is classified in the field by a geologist using the Unified Soil Classification System and a Munsell soil color chart. In addition, samples may also be field-screened with a photoionization detector (calibrated daily) or threshold limit value sniffer. In either case, the instrument probe is held adjacent to freshly crumbled soil and the stabilized reading value is recorded on the log. Values of volatile vapors measured in the field are reconnaissance only and are not meant to supplant chemical analysis in a certified laboratory. Other visual screening techniques include examination of the sample under hand-lens magnification as-well-as floating sheen inspection resulting from immersion in water.

Lithology logging will collect geologic data as required, using conventional geologic and hydrogeologic terminology. When rock is logged, a GSA Rock Color Chart and appropriate terminology will be employed to describe rock, fractures, bedding, etc. Soil or rock coring may be specified by the supervising geologist on a project-specific basis.

- 6) Samples are held in the possession of RESNA personnel until transferred to the analytical laboratory. Transfer to the laboratory is accomplished with either delivery by RESNA personnel, pick-up by laboratory personnel, or transfer by a personal delivery service. Each transfer of responsibility is recorded on a chain-of-custody record that accompanies the samples.
- 7) Conditions occasionally arise when other drilling equipment are used given site-specific formation conditions. Rotary drilling may be selected if coring or bearing conditions arise. Rotary or casing hammer may be used as deep drilling, flowing sands, or formation-specific conditions require.
- 8) When drilling through an aquifer known to be contaminated, a staged drilling approach will be used. This would involve using either a temporary or

permanent conductor casing placed adjacent to the contaminated aquifer and pressed or advanced slightly into the underlying aquitard. The cased hole will be cleaned as necessary, following which, a smaller diameter drill bit/auger will be advanced to the next underlying water bearing stratum. An impermeable seal will be placed in the borehole or annular space as appropriate upon completion of exploratory boring/well construction.

II. SOIL SAMPLING BY HAND

- 1) Some situations require that samples be collected by hand without the assistance of a drill rig (e.g., soil stock piles, excavation sidewall sampling, etc.). When possible, soil samples will be collected using a steel core sampler equipped with clean brass liners which is advanced into the soil with a slide hammer. In other cases, the outer surface of the soil is removed and a brass liner is driven into the soil by hand or with a hammer. To avoid damaging the liner, a block of wood can be held next to the liner so that the hammer strikes the block rather than the liner. The liner is removed and handled as described above. In deep excavations where safety factors preclude the direct sampling of the bottom or side wall, soil is retrieved by a backhoe bucket and this soil is sampled.



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
PERMITS



Rec'd 9/8/92
SP

ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

5997 PARKSIDE DRIVE PLEASANTON, CALIFORNIA 94588 (510) 484-2600

3 September 1992

Resna
42501 Albrae Street, Suite 100
Fremont, CA 94538

Gentlemen:

Enclosed is drilling permit 92435 for a monitoring well construction project at 500 Maitland Drive in Alameda for Doric Construction.

Please note that permit condition A-2 requires that a well construction report be submitted after completion of the work. The report should include drilling and completion logs, location sketch, and permit number.

If you have any questions, please contact Craig Mayfield or me at 484-2600.

Very truly yours,

Wyman Hong
Water Resources Technician

WH:mm
Enc.



ZONE 7 WATER AGENCY

5997 PARKSIDE DRIVE PLEASANTON, CALIFORNIA 94588

VOICE (510) 484-2600
FAX (510) 482-3914

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT Harbor Bay Isle Assoc.
500 Mainland Drive
Alameda, CA 94501

PERMIT NUMBER 92435
LOCATION NUMBER _____

CLIENT
Name Doric Construction
Address 1141 Harbor Bay Pkwy Phone 510-769-5123
City Alameda CA Zip 94501

PERMIT CONDITIONS

Circled Permit Requirements Apply

APPLICANT
Name Sheryl Fontaine
c/o RESNA Industries, Inc.
Address 42501 Albrae St Phone 510-440-3300
City Fremont CA Zip 94538

TYPE OF PROJECT
Well Construction _____ Geotechnical Investigation _____
Cathodic Protection _____ General _____
Water Supply _____ Contamination _____
Monitoring X Well Destruction _____

PROPOSED WATER SUPPLY WELL USE
Domestic _____ Industrial _____ Other _____
Municipal _____ Irrigation _____

DRILLING METHOD:
Mud Rotary _____ Air Rotary _____ Auger X
Cable _____ Other _____

DRILLER'S LICENSE NO. C5748428Y

WELL PROJECTS
Drill Hole Diameter 8 in. Maximum Depth 20 ft.
Casing Diameter 2 in. Number 3
Surface Seal Depth 1 ft.

GEOTECHNICAL PROJECTS
Number of Borings 15 Maximum Depth 1 ft.
Hole Diameter 2 in.

ESTIMATED STARTING DATE 9-3-92
ESTIMATED COMPLETION DATE 9-8-92

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-88.

APPLICANT'S SIGNATURE Sheryl Fontaine Date 9-2-92

- A. GENERAL**
 1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date.
 2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well projects, or drilling logs and location sketch for geotechnical projects.
 3. Permit is void if project not begun within 90 days of approval date.
- B. WATER WELLS, INCLUDING PIEZOMETERS**
 1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
 2. Minimum seal depth is 60 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.
- C. GEOTECHNICAL.** Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.
- D. CATHODIC.** Fill hole above anode zone with concrete placed by tremie.
- E. WELL DESTRUCTION.** See attached.

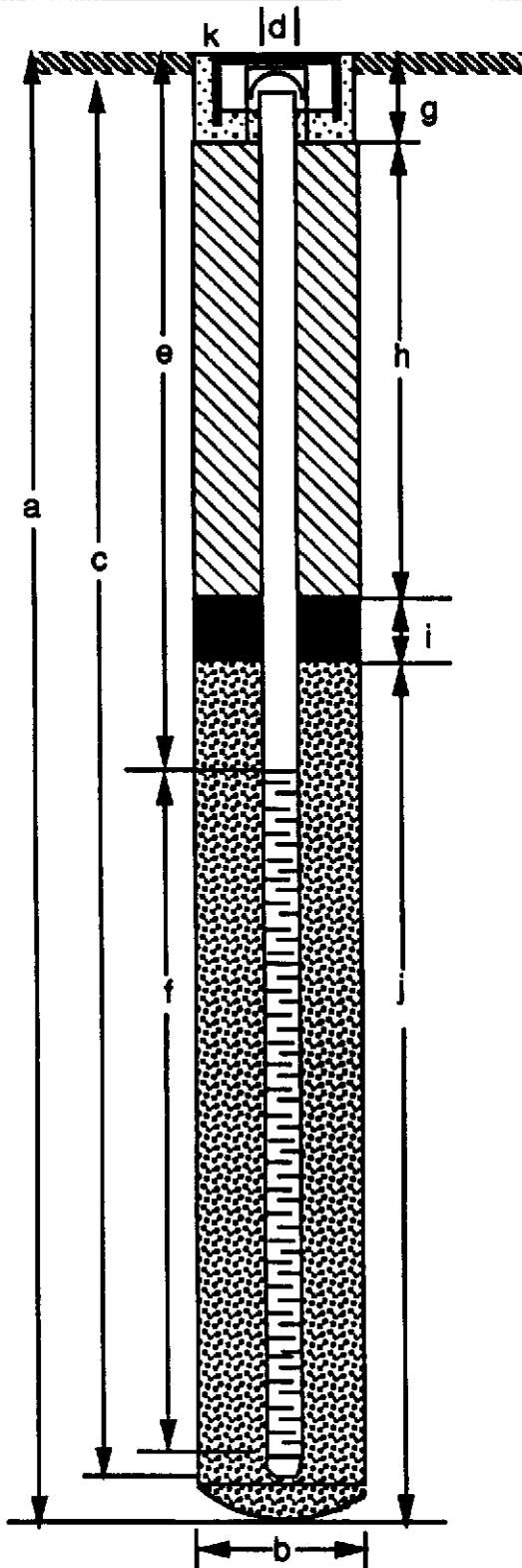
Approved Wyman Hong Date 2 Sep 92
Wyman Hong

APPENDIX C

**EXPLORATORY BORING LOGS
AND
GROUNDWATER MONITORING WELL DETAILS**

MONITORING WELL DETAIL

Project Number	F3125.31	Boring/Well No.	MW-1
Project Name	Doric Construction	Top of Casing Elev.	5.05 ft.
County	Alameda	Ground Surface Elev.	5.32 ft.
Well Permit No.	92435	Datum	Mean Sea Level



EXPLORATORY BORING

a.	Total depth	14	ft.
b.	Diameter	8	in.
	Drilling method	Hollow Stem Auger	

WELL CONSTRUCTION

c.	Casing length	14	ft.
	Material	Schedule 40 PVC	
d.	Diameter	2	in.
e.	Depth to top perforations	3.5	ft.
f.	Perforated length	10.5	ft.
	Perforated interval from	3.5 to 14	ft.
	Perforation type	Machine Slotted	
	Perforation size	0.020	in.
g.	Surface seal	1	ft.
	Seal material	Sand Slurry	
h.	Backfill	0	ft.
	Backfill material	NA	
i.	Seal	1.5	ft.
	Seal material	Hydrated 1/2" Ben. Pel.	
j.	Gravel pack	10.5	ft.
	Pack material	No. 2/12 Sand	
k.	Traffic rated, water-tight EMCO-Wheaton vault box, locking expansion cap, lock No. 2357		

RESNA EXPLORATORY BORING LOG

Project Name: Doric Construction/Harbor Bay Isle Assoc.
 500 Maitland Drive
 Alameda, California

Boring No. MW-1

Date Drilled: 9/3/92

Project Number: F3125.31

Logged By: Sheryl Fontaine

Depth (ft.)	Sample No.	Blows/Foot 140 ft/lbs.	Unified Soil Classification	SOIL DESCRIPTION	Water Level	OVM Reading (ppm)	Well Construction
1							
2			GM	SILTY GRAVEL, sand-gravel-silt mixture, medium to coarse-grained gravel, medium to coarse-grained sand, medium brown, slightly damp, loose; fill			
3	MW-1-1	46				10.6	
4				SILTY SAND, medium to coarse-grained, dark brown to black, moist, medium dense	▽		
5	MW-1-2	24	SM	-----	▽	7.3	
6							
7		7		SILTY SAND, medium to coarse-grained, medium brown, saturated, medium dense			
8							
9		19	SC	SAND WITH CLAY AND SILT, fine to medium-grained grey-green, very moist, medium dense; rootholes			
10				-----			
11		82	CL	SANDY CLAYS, fine to medium-grained sand, grey, very moist, dense			
12							
13		73					
14				Bottom of boring 14 feet			
15							
16							
17							
18							
19							
20							
21							

- Sand slurry
- Bentonite
- Sand

RESNA EXPLORATORY BORING LOG

Project Name: Doric Construction/Harbor Bay Isle Assoc.
 500 Maitland Drive
 Alameda, California

Boring No. MW-2

Date Drilled: 9/3/92

Project Number: F3125.31

Logged By: Sheryl Fontaine

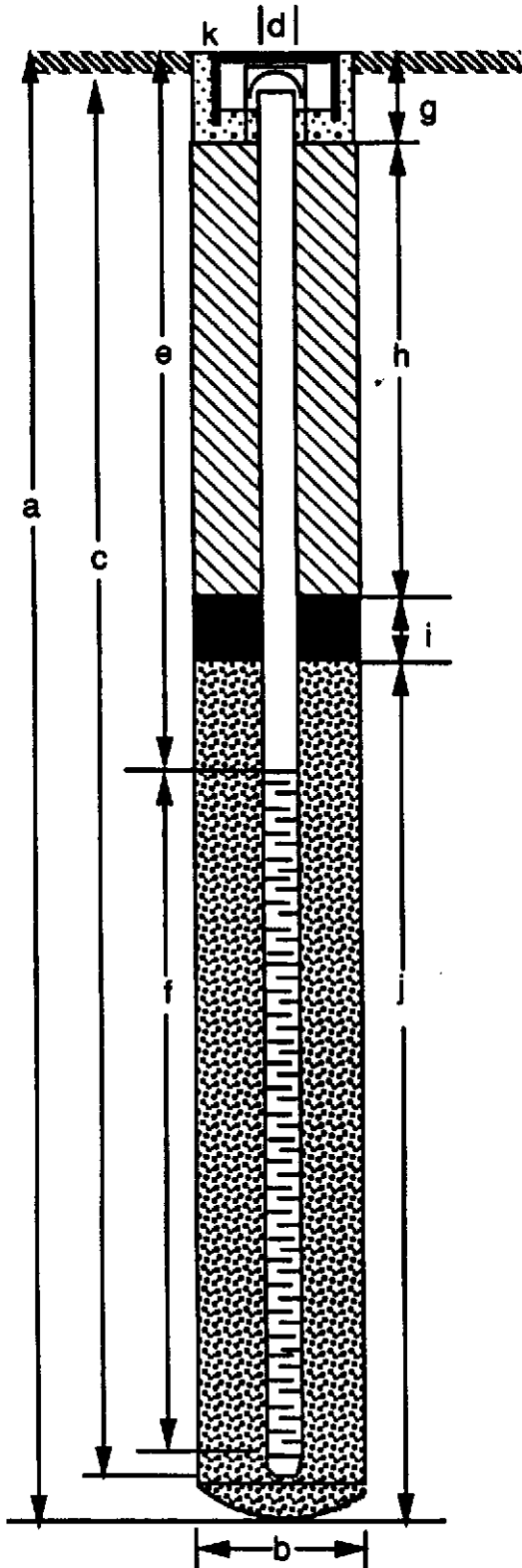
Depth (ft.)	Sample No.	Blows/Foot	140 ft/lbs.	Unified Soil Classification	SOIL DESCRIPTION	Water Level	OVM Reading (ppm)	Well Construction
1				SW	GRAVELLY SAND, fine-grained gravel, medium to coarse-grained sand, medium brown, slightly damp, medium dense; fill			
2								
3	MW-2-1	34					11.6	
4								
5	MW-2-2	21		SM	SILTY SAND, fine to medium-grained sand, dark brown to black, moist, medium dense	▽	40.1	
6					Grades to clayey sand			
7			18					
8				SC	CLAYEY SAND, fine grained, light brown, saturated, medium dense			
9			14					
10					SAND WITH SILT AND CLAY, fine gravel sand, grey, saturated, medium dense			
11			25					
12				CL	CLAY WITH SAND AND SILT, grey, saturated, very dense			
13			57					
14					Bottom of boring at 14 feet			
15								
16								
17								
18								
19								
20								
21								

- Sand slurry
- Bentonite
- Sand

REVIEWED BY R.G./C.E.G. *68*

MONITORING WELL DETAIL

Project Number	F3125.31	Boring/Well No.	MW-2
Project Name	Doric Construction	Top of Casing Elev.	5.60 ft.
County	Alameda	Ground Surface Elev.	5.87 ft.
Well Permit No.	92435	Datum	Mean Sea Level



EXPLORATORY BORING

a. Total depth	14	ft.
b. Diameter	8	in.
Drilling method	Hollow Stem Auger	

WELL CONSTRUCTION

c. Casing length	14	ft.
Material	Schedule 40 PVC	
d. Diameter	2	in.
e. Depth to top perforations	4	ft.
f. Perforated length	10	ft.
Perforated interval from	4 to 14	ft.
Perforation type	Machine Slotted	
Perforation size	0.020	in.
g. Surface seal	1	ft.
Seal material	Sand Slurry	
h. Backfill	0	ft.
Backfill material	NA	
i. Seal	1.5	ft.
Seal material	Hydrated 1/2" bent. pel.	
j. Gravel pack	11.5	ft.
Pack material	No. 2/12 sand	
k.	Traffic-rated, water-tight EMCO-Wheaton vault box; locking expansion cap, lock No. 2357	

RESNA EXPLORATORY BORING LOG

Project Name: Doric Construction/Harbor Bay Isle Assoc.
500 Maitland Drive
Alameda, California

Boring No. MW-3

Date Drilled: 9/4/92

Project Number: F3125.31

Logged By: Sheryl Fontaine

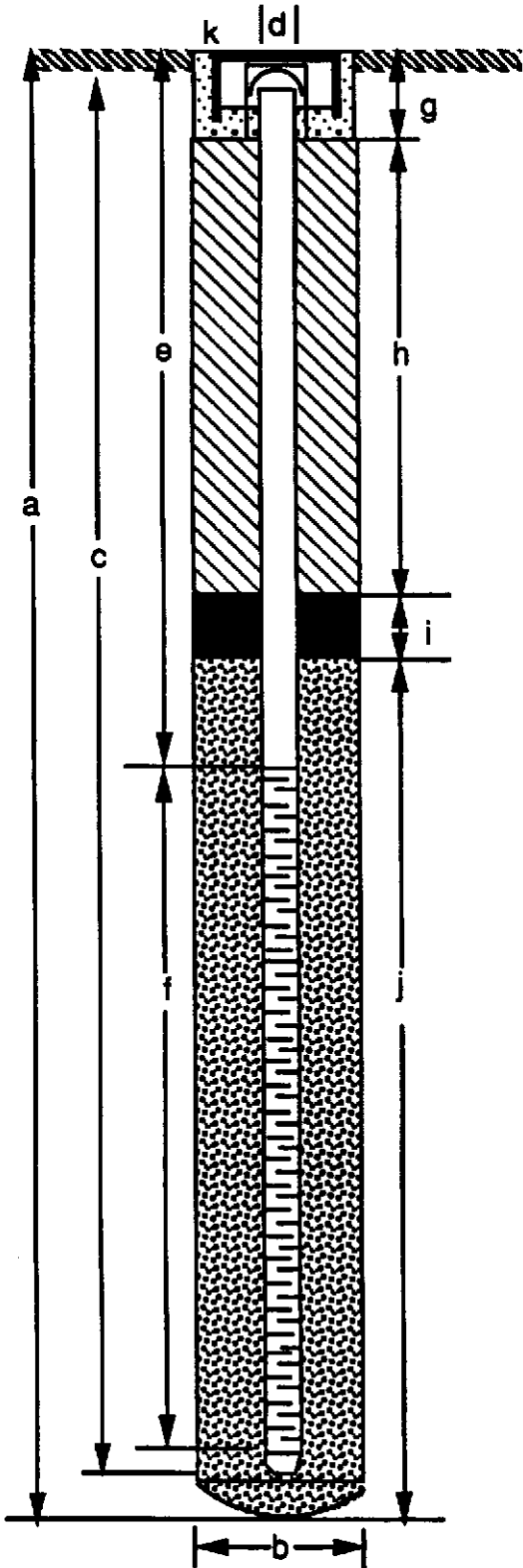
Depth (ft.)	Sample No.	Blows/Foot 140 ft/lbs.	Unified Soil Classification	SOIL DESCRIPTION	Water Level	OVM Reading (ppm)	Well Construction
1							
2	MW-3-1	NA	GM	GRAVEL WITH SAND AND SILT, medium to coarse-grained gravel, fine to medium-grained sand, medium brown, slightly damp; fill		85.4	
3							
4					▼	95.7	
5	MW-3-2		SM	SAND WITH SILT, fine to medium-grained sand, medium grey/brown, damp			
6							
7	MW-3-3		SC	SAND WITH CLAY AND SILT, fine to medium-grained sand, grey, very moist to saturated	▼	34.5	
8							
9				Grading to less fines			
10							
11			SW	SAND, fine to medium grained, grey, very moist to saturated			
12							
13							
14				Bottom of boring at 14 feet			
15							
16							
17							
18							
19							
20							
21							

- Sand slurry
- Bentonite
- Sand

REVIEWED BY R.G./C.E.G. *GP*

MONITORING WELL DETAIL

Project Number	<u>F3125.31</u>	Boring/Well No.	<u>MW-3</u>
Project Name	<u>Doric Construction</u>	Top of Casing Elev.	<u>4.76 ft.</u>
County	<u>Alameda</u>	Ground Surface Elev.	<u>5.57 ft.</u>
Well Permit No.	<u>92435</u>	Datum	<u>Mean Sea Level</u>



EXPLORATORY BORING







- a. Total depth 14 ft.
- b. Diameter 8 in.
- Drilling method Hollow Stem Auger

WELL CONSTRUCTION

- c. Casing length 14 ft.
Material Schedule 40 PVC
- d. Diameter 2 in.
- e. Depth to top perforations 3.5 ft.
- f. Perforated length 10.5 ft.
Perforated interval from 3.5 to 14 ft.
Perforation type Machine Slotted
Perforation size 0.020 in.
- g. Surface seal 1 ft.
Seal material Sand Slurry
- h. Backfill 0 ft.
Backfill material NA
- i. Seal 1.5 ft.
Seal material Hydrated 1/2" bent. pel.
- j. Gravel pack 11.5 ft.
Pack material No. 2/12 sand
- k. Traffic-rated, water-tight EMCO-Wheaton vault box; locking expansion cap; lock No. 2357

STANDARD SYMBOLS

Legend






-  Soil sample location
-  Soil sample collected for laboratory analysis
-  No soil recovery
-  First encountered groundwater level
-  Potentiometric groundwater level
-  Disturbed or bag soil sample

2.5 YR 6/2 Soil color according to Munsell Soil Color Charts (1975 Edition)

Penetration

Sample drive hammer weight - 140 pounds falling 30 inches.
Blows required to drive sampler 1 foot are indicated on the logs

Well Construction

-  Annular seal
-  Bentonite seal
-  Sand pack
-  Well riser section
-  Well screen section

UNIFIED SOIL CLASSIFICATION SYSTEM

MAJOR DIVISIONS		GROUP SYMBOLS	TYPICAL NAMES
COARSE-GRAINED SOILS More than half of material is larger than No. 200 sieve size	GRAVELS More than half of coarse fraction is larger than No. 4 sieve size	Clean Gravels	GW Well-graded gravels, gravel-sand mixtures, little or no fines
		Gravels with Fines	GP Poorly graded gravels, gravel-sand mixture, little or no fines
		Sands with Fines	GM Silty gravels, gravel-sand-silt mixtures
			GC Clayey gravels, gravel-sand-clay mixtures
	SANDS More than half of coarse fraction is smaller than No. 4 sieve size	Clean Sands	SW Well-graded sands, gravelly sand, little or no fines
		Sands with Fines	SP Poorly graded sands, gravelly sands, little or no fines
			SM Silty sands, sand-silt mixtures
			SC Clayey sands, sand-clay mixtures
FINE-GRAINED SOILS More than half of material is smaller than No. 200 sieve size	Low Liquid Limit	ML Inorganic silts and very fine sands, rock flour, silty or clayey fine sands, or clayey silts, with slight plasticity	
		CL Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays	
		OL Organic silts and organic silty clays of low plasticity	
	High Liquid Limit	MH Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts	
		CH Inorganic clays of high plasticity, fat clays	
		OH Organic clays of medium to high plasticity, organic silts	
			Pt Peat and other highly organic soils

NOTES:

1. Boundary Classification: Soils possessing characteristics of two groups are designated by combinations of group symbols. For example, GW-GC, well-graded gravel-sand mixture with clay binder.
2. All sieve sizes on this chart are U.S. standard.
3. The terms "silt" and "clay" are used respectively to distinguish materials exhibiting lower plasticity from those with higher plasticity.
4. For a complete description of the Unified Soil Classification System, see "Technical Memorandum No. 3-357," prepared for Office, Chief of Engineers, by Waterways Equipment Station, Vicksburg, Mississippi, March 1953.

APPENDIX D
SURVEYOR'S MAP

RON ARCHER

CIVIL ENGINEER, INC.

CONSULTING • PLANNING • DESIGN • SURVEYING

4133 Mohr Ave., Suite E • Pleasanton, CA 94566
(510) 462-9372



SEPTEMBER 10, 1992

JOB NO. 1960

ELEVATIONS OF EXISTING MONITOR WELLS AT THE FORMER ISLAND GUN CLUB SITE, LOCATED AT 500 MAITLAND DRIVE AT HARBOR BAY PARKWAY CITY OF ALAMEDA, ALAMEDA COUNTY, CALIFORNIA

FOR: RESNA INDUSTRIES
PROJECT NO. F-3125.31

BENCHMARK:

A FOUND CHISELED SQUARE IN TOP OF CURB AT AN EXISTING CATCH BASIN AT THE SOUTHWESTERLY CORNER OF INTERSECTION OF MAITLAND DRIVE AND HARBOR BAY PARKWAY. ELEVATION TAKEN AS 4.68 M.S.L., N.G.S DATUM

MONITOR WELL DATA TABLE

WELL DESIGNATION	ELEV	DESCRIPTION
MW1	5.05	TOP OF PVC CASING
	5.32	TOP OF BOX
MW2	5.60	TOP OF PVC CASING
	5.87	TOP OF BOX
MW3	4.76	TOP OF PVC CASING
	5.57	TOP OF BOX

SEPTEMBER 10, 1992

JOB NO. 1968

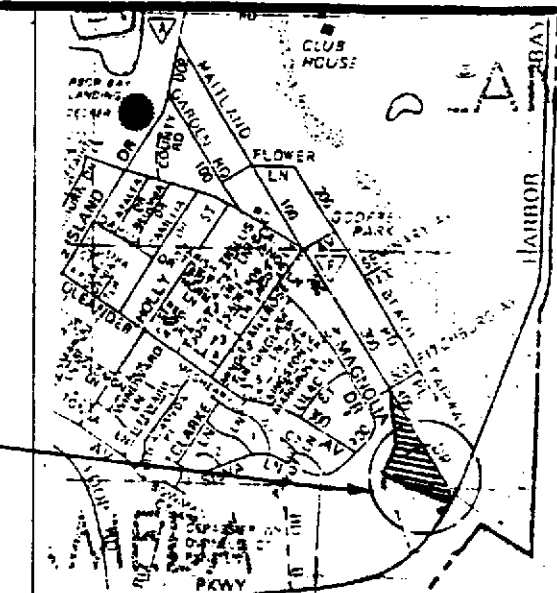
PLAT SHOWING EXISTING MONITOR WELLS AT THE FORMER ISLAND GUN CLUB SITE, LOCATED AT 500 MAITLAND DRIVE AT HARBOR BAY PARKWAY CITY OF ALAMEDA, ALAMEDA COUNTY, CALIFORNIA

FOR: RESNA INDUSTRIES
PROJECT NO. F-3125.31

BENCHMARK:
A FOUND CHISELED SQUARE IN TOP OF CURB AT AN EXISTING CATCH BASIN AT THE SOUTHWESTERLY CORNER OF INTERSECTION OF MAITLAND DRIVE AND HARBOR BAY PARKWAY. ELEVATION TAKEN AS 4.68 M.S.L., N.G.S DATUM

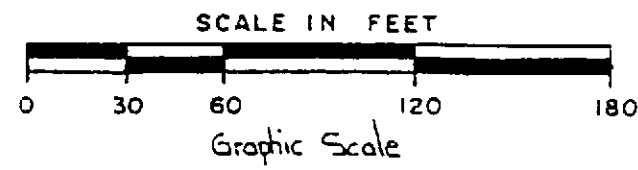
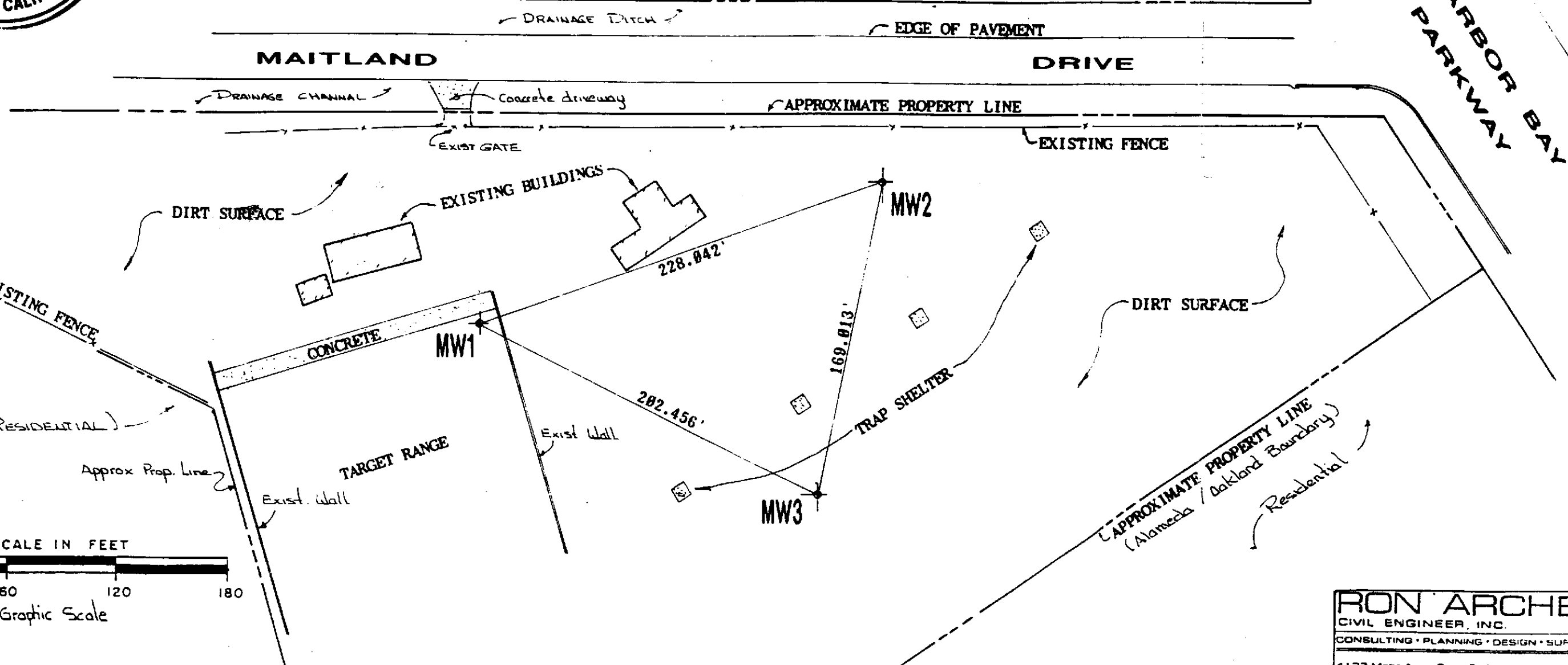
MONITOR WELL DATA TABLE

WELL DESIGNATION	ELEV	DESCRIPTION
MW1	5.85	TOP OF PVC CASING
	5.32	TOP OF BOX
MW2	5.68	TOP OF PVC CASING
	5.87	TOP OF BOX
MW3	4.76	TOP OF PVC CASING
	5.57	TOP OF BOX



VICINITY MAP
N.T.S

SCALE: 1" = 60'



RON ARCHER
CIVIL ENGINEER, INC.
CONSULTING • PLANNING • DESIGN • SURVEYING
4133 Mohr Ave., Suite E • Pleasanton, CA 94568
(916) 462-8372

APPENDIX E

**CERTIFIED LABORATORY REPORTS
AND
CHAIN-OF-CUSTODY RECORDS**

ANALYSIS REPORT

Attention: Gary Pischke
RESNA
42501 Albrae st.
Fremont, Ca 94538
Project: 19513-L, F3125
Sample ID: MW1-1
Lab ID: S1209036

Date Sampled: 09-03-92
Date Received: 09-03-92
Date Analyzed: 09-15-92
Matrix: Soil

EPA METHOD 8270

<u>COMPOUND NAME</u>	<u>ug/Kg</u>	<u>MDL</u>	<u>COMPOUND NAME</u>	<u>ug/Kg</u>	<u>MDL</u>
Acenaphthene	ND	100	1,3-Dichlorobenzene	ND	100
Acenaphthylene	ND	100	1,4-Dichlorobenzene	ND	100
Anthracene	ND	100	1,2-Dichlorobenzene	ND	100
Benzidine	ND	2500	3,3-dichlorobenzidine	ND	500
Benzoic Acid	ND	100	2,4-dichlorophenol	ND	100
Benzo(a)anthracene	ND	100	Diethyl phthalate	ND	100
Benzo(b)fluoranthene	ND	100	2,4-Dimethylphenol	ND	100
Benzo(k)fluoranthene	ND	100	Dimethyl phthalate	ND	100
Benzo(g,h,i)perylene	ND	100	4,6-Dinitro-2-methylphenol	ND	500
Benzo(a)pyrene	ND	100	2,4-Dinitrophenol	ND	500
Benzyl alcohol	ND	100	2,4-Dinitrotoluene	ND	100
Bis(2-chloroethoxy)methane	ND	100	2,6-Dinitrotoluene	ND	100
Bis(2-chloroethyl)ether	ND	100	Di-N-octyl phthalate	ND	100
Bis(2-chloroisopropyl)ether	ND	100	Fluoranthene	ND	100
Bis(2-ethylhexyl)phthalate	ND	500	Fluorene	ND	100
4-Bromophenyl phenyl ether	ND	100	Hexachlorobenzene	ND	100
Butyl benzyl phthalate	ND	100	Hexachlorobutadiene	ND	100
4-Chloroaniline	ND	100	Hexachlorocyclopentadiene	ND	100
2-Chloronaphthalene	ND	100	Hexachloroethane	ND	100
4-Chloro-3-methylphenol	ND	100	Indeno(1,2,3-cd)pyrene	ND	100
2-Chlorophenol	ND	100	Isophorone	ND	100
4-Chlorophenyl phenyl ether	ND	100	2-Methylnaphthalene	ND	100
Chrysene	ND	100	2-Methylphenol	ND	100
Dibenz(a,h)anthracene	ND	100	4-Methylphenol	ND	100
Dibenzofuran	ND	100	Naphthalene	ND	100
Di-N-butyl phthlate	ND	500	2-Nitroaniline	ND	100

ppb = parts per billion = ug/Kg = micrograms per Kilogram

ND = Not detected. Compound(s) may be present at concentrations below the detection limit.

NR = Analysis not requested.

MTague

Laboratory Representative

September 16, 1992

Date Reported

RESNA ENVIRONMENTAL LABORATORY IS CERTIFIED BY THE STATE OF CALIFORNIA
DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY

(Certification No. E1211)

42501 Albrae Street • Fremont, CA 94538 • Phone: (510) 623-0775 • (800) 247-5223 • FAX: (510) 651-8754

ANALYSIS REPORT

Attention: Gary Pischke
RESNA
42501 Albrae st.
Fremont, Ca 94538
Project: 19513-L, F3125.00
Sample ID: MW1-1
Lab ID: S1209036

Date Sampled: 09-03-92
Date Received: 09-03-92
Date Analyzed: 09-15-92
Matrix: Soil

EPA METHOD 8270

<u>COMPOUND NAME</u>	<u>ug/Kg</u>	<u>MDL</u>
3-Nitroaniline	ND	100
4-Nitroaniline	ND	100
Nitrobenzene	ND	100
2-Nitrophenol	ND	100
4-Nitrophenol	ND	500
N-Nitrosodiphenylamine	ND	100
N-Nitroso-di-N-propylamine	ND	100
Pentachlorophenol	ND	500
Phenanthrene	ND	100
Phenol	ND	100
Pyrene	ND	100
1,2,4-Trichlorobenzene	ND	100
2,4,5-Trichlorophenol	ND	100
2,4,6-Trichlorophenol	ND	100

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

W. T. Taylor

Laboratory Representative

September 16, 1992
Date Reported

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 (Certification No. E1211)

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ANALYSIS REPORT

Attention: Gary Pischke
 RESNA
 42501 Albrae st.
 Fremont, Ca 94538

Project: 19513-L, F3125
 Sample ID: MW1-2
 Lab ID: S1209037

Date Sampled: 09-03-92
 Date Received: 09-03-92
 Date Analyzed: 09-15-92
 Matrix: Soil

EPA METHOD 8270

<u>COMPOUND NAME</u>	<u>ug/Kg</u>	<u>MDL</u>	<u>COMPOUND NAME</u>	<u>ug/Kg</u>	<u>MDL</u>
Acenaphthene	ND	100	1,3-Dichlorobenzene	ND	100
Acenaphthylene	ND	100	1,4-Dichlorobenzene	ND	100
Anthracene	ND	100	1,2-Dichlorobenzene	ND	100
Benzidine	ND	2500	3,3-dichlorobenzidine	ND	500
Benzoic Acid	ND	100	2,4-dichlorophenol	ND	100
Benzo(a)anthracene	ND	100	Diethyl phthalate	ND	100
Benzo(b)fluoranthene	ND	100	2,4-Dimethylphenol	ND	100
Benzo(k)fluoranthene	ND	100	Dimethyl phthalate	ND	100
Benzo(g,h,i)perylene	ND	100	4,6-Dinitro-2-methylphenol	ND	500
Benzo(a)pyrene	ND	100	2,4-Dinitrophenol	ND	500
Benzyl alcohol	ND	100	2,4-Dinitrotoluene	ND	100
Bis(2-chloroethoxy)methane	ND	100	2,6-Dinitrotoluene	ND	100
Bis(2-chloroethyl)ether	ND	100	Di-N-octyl phthalate	ND	100
Bis(2-chloroisopropyl)ether	ND	100	Fluoranthene	ND	100
Bis(2-ethylhexyl)phthalate	ND	500	Fluorene	ND	100
4-Bromophenyl phenyl ether	ND	100	Hexachlorobenzene	ND	100
Butyl benzyl phthalate	ND	100	Hexachlorobutadiene	ND	100
4-Chloroaniline	ND	100	Hexachlorocyclopentadiene	ND	100
2-Chloronaphthalene	ND	100	Hexachloroethane	ND	100
4-Chloro-3-methylphenol	ND	100	Indeno(1,2,3-cd)pyrene	ND	100
2-Chlorophenol	ND	100	Isophorone	ND	100
4-Chlorophenyl phenyl ether	ND	100	2-Methylnaphthalene	ND	100
Chrysene	ND	100	2-Methylphenol	ND	100
Dibenz(a,h)anthracene	ND	100	4-Methylphenol	ND	100
Dibenzofuran	ND	100	Naphthalene	ND	100
Di-N-butyl phthlate	ND	500	2-Nitroaniline	ND	100

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



 Laboratory Representative

September 16, 1992

 Date Reported

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 (Certification No. E1211)

ANALYSIS REPORT

Attention: Gary Pischke
RESNA
42501 Albrae st.
Fremont, Ca 94538
Project: 19513-L, F3125.00
Sample ID: MW1-2
Lab ID: S1209037

Date Sampled: 09-03-92
Date Received: 09-03-92
Date Analyzed: 09-15-92
Matrix: Soil

EPA METHOD 8270

<u>COMPOUND NAME</u>	<u>ug/Kg</u>	<u>MDL</u>
3-Nitroaniline	ND	100
4-Nitroaniline	ND	100
Nitrobenzene	ND	100
2-Nitrophenol	ND	100
4-Nitrophenol	ND	500
N-Nitrosodiphenylamine	ND	100
N-Nitroso-di-N-propylamine	ND	100
Pentachlorophenol	ND	500
Phenanthrene	ND	100
Phenol	ND	100
Pyrene	ND	100
1,2,4-Trichlorobenzene	ND	100
2,4,5-Trichlorophenol	ND	100
2,4,6-Trichlorophenol	ND	100

ppb = parts per billion = ug/Kg = micrograms per Kilogram
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MTague

Laboratory Representative

September 16, 1992
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 (Certification No. E1211)

42501 Albrae Street • Fremont, CA 94538 • Phone: (510) 623-0775 • (800) 247-5223 • FAX: (510) 651-8754

ANALYSIS REPORT

Attention: Gary Pischke
 RESNA
 42501 Albrae st.
 Fremont, Ca 94538
 Project: 19513-L, F3125
 Sample ID: MW2-1
 Lab ID: S1209038

Date Sampled: 09-03-92
 Date Received: 09-03-92
 Date Analyzed: 09-15-92
 Matrix: Soil

EPA METHOD 8270

<u>COMPOUND NAME</u>	<u>ug/Kg</u>	<u>MDL</u>	<u>COMPOUND NAME</u>	<u>ug/Kg</u>	<u>MDL</u>
Acenaphthene	ND	100	1,3-Dichlorobenzene	ND	100
Acenaphthylene	ND	100	1,4-Dichlorobenzene	ND	100
Anthracene	ND	100	1,2-Dichlorobenzene	ND	100
Benzidine	ND	2500	3,3-dichlorobenzidine	ND	500
Benzoic Acid	ND	100	2,4-dichlorophenol	ND	100
Benzo(a)anthracene	ND	100	Diethyl phthalate	ND	100
Benzo(b)fluoranthene	ND	100	2,4-Dimethylphenol	ND	100
Benzo(k)fluoranthene	ND	100	Dimethyl phthalate	ND	100
Benzo(g,h,i)perylene	ND	100	4,6-Dinitro-2-methylphenol	ND	500
Benzo(a)pyrene	ND	100	2,4-Dinitrophenol	ND	500
Benzyl alcohol	ND	100	2,4-Dinitrotoluene	ND	100
Bis(2-chloroethoxy)methane	ND	100	2,6-Dinitrotoluene	ND	100
Bis(2-chloroethyl)ether	ND	100	Di-N-octyl phthalate	ND	100
Bis(2-chloroisopropyl)ether	ND	100	Fluoranthene	ND	100
Bis(2-ethylhexyl)phthalate	ND	500	Fluorene	ND	100
4-Bromophenyl phenyl ether	ND	100	Hexachlorobenzene	ND	100
Butyl benzyl phthalate	ND	100	Hexachlorobutadiene	ND	100
4-Chloroaniline	ND	100	Hexachlorocyclopentadiene	ND	100
2-Chloronaphthalene	ND	100	Hexachloroethane	ND	100
4-Chloro-3-methylphenol	ND	100	Indeno(1,2,3-cd)pyrene	ND	100
2-Chlorophenol	ND	100	Isophorone	ND	100
4-Chlorophenyl phenyl ether	ND	100	2-Methylnaphthalene	ND	100
Chrysene	ND	100	2-Methylphenol	ND	100
Dibenz(a,h)anthracene	ND	100	4-Methylphenol	ND	100
Dibenzofuran	ND	100	Naphthalene	ND	100
Di-N-butyl phthlate	ND	500	2-Nitroaniline	ND	100

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



 Laboratory Representative

September 16, 1992

 Date Reported

RESNA ENVIRONMENTAL LABORATORY IS CERTIFIED BY THE STATE OF CALIFORNIA
 DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
 (Certification No. E1211)

ANALYSIS REPORT

Attention: Gary Pischke
RESNA
42501 Albrae st.
Fremont, Ca 94538

Project: 19513-L, F3125.00
Sample ID: MW2-1
Lab ID: S1209038

Date Sampled: 09-03-92
Date Received: 09-03-92
Date Analyzed: 09-15-92
Matrix: Soil

EPA METHOD 8270

<u>COMPOUND NAME</u>	<u>ug/Kg</u>	<u>MDL</u>
3-Nitroaniline	ND	100
4-Nitroaniline	ND	100
Nitrobenzene	ND	100
2-Nitrophenol	ND	100
4-Nitrophenol	ND	500
N-Nitrosodiphenylamine	ND	100
N-Nitroso-di-N-propylamine	ND	100
Pentachlorophenol	ND	500
Phenanthrene	ND	100
Phenol	ND	100
Pyrene	ND	100
1,2,4-Trichlorobenzene	ND	100
2,4,5-Trichlorophenol	ND	100
2,4,6-Trichlorophenol	ND	100

ppb = parts per billion = ug/Kg = micrograms per Kilogram
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 Laboratory Representative

September 16, 1992

 Date Reported

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 (Certification No. E1211)

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ANALYSIS REPORT

Attention: Gary Pischke
RESNA
42501 Albrae st.
Fremont, Ca 94538
Project: 19513-L, F3125
Sample ID: MW2-2
Lab ID: S1209039

Date Sampled: 09-03-92
Date Received: 09-03-92
Date Analyzed: 09-15-92
Matrix: Soil

EPA METHOD 8270

<u>COMPOUND NAME</u>	<u>ug/Kg</u>	<u>MDL</u>	<u>COMPOUND NAME</u>	<u>ug/Kg</u>	<u>MDL</u>
Acenaphthene	ND	100	1,3-Dichlorbenzene	ND	100
Acenaphthylene	ND	100	1,4-Dichlorobenzene	ND	100
Anthracene	ND	100	1,2-Dichlorobenzene	ND	100
Benzdine	ND	2500	3,3-dichlorobenzidine	ND	500
Benzoic Acid	ND	100	2,4-dichlorophenol	ND	100
Benzo(a)anthracene	ND	100	Diethyl phthalate	ND	100
Benzo(b)fluoranthene	ND	100	2,4-Dimethylphenol	ND	100
Benzo(k)fluoranthene	ND	100	Dimethyl phthalate	ND	100
Benzo(g,h,i)perylene	ND	100	4,6-Dinitro-2-methylphenol	ND	500
Benzo(a)pyrene	ND	100	2,4-Dinitrophenol	ND	500
Benzyl alcohol	ND	100	2,4-Dinitrotoluene	ND	100
Bis(2-chloroethoxy)methane	ND	100	2,6-Dinitrotoluene	ND	100
Bis(2-chloroethyl)ether	ND	100	Di-N-octyl phthalate	ND	100
Bis(2-chloroisopropyl)ether	ND	100	Fluoranthene	ND	100
Bis(2-ethylhexyl)phthalate	ND	500	Fluorene	ND	100
4-Bromophenyl phenyl ether	ND	100	Hexachlorobenzene	ND	100
Butyl benzyl phthalate	ND	100	Hexachlorobutadiene	ND	100
4-Chloroaniline	ND	100	Hexachlorocyclopentadiene	ND	100
2-Chloronaphthalene	ND	100	Hexachloroethane	ND	100
4-Chloro-3-methylphenol	ND	100	Indeno(1,2,3-cd)pyrene	ND	100
2-Chlorophenol	ND	100	Isophorone	ND	100
4-Chlorophenyl phenyl ether	ND	100	2-Methylnaphthalene	ND	100
Chrysene	ND	100	2-Methylphenol	ND	100
Dibenz(a,h)anthracene	ND	100	4-Methylphenol	ND	100
Dibenzofuran	ND	100	Naphthalene	ND	100
Di-N-butyl phthlate	ND	500	2-Nitroaniline	ND	100

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

M. Tague

Laboratory Representative

September 16, 1992
Date Reported

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 DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
 (Certification No. E1211)

ANALYSIS REPORT

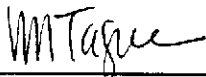
Attention: Gary Pischke
RESNA
42501 Albrae st.
Fremont, Ca 94538
Project: 19513-L, F3125.00
Sample ID: MW2-2
Lab ID: S1209039

Date Sampled: 09-03-92
Date Received: 09-03-92
Date Analyzed: 09-15-92
Matrix: Soil

EPA METHOD 8270

<u>COMPOUND NAME</u>	<u>ug/Kg</u>	<u>MDL</u>
3-Nitroaniline	ND	100
4-Nitroaniline	ND	100
Nitrobenzene	ND	100
2-Nitrophenol	ND	100
4-Nitrophenol	ND	500
N-Nitrosodiphenylamine	ND	100
N-Nitroso-di-N-propylamine	ND	100
Pentachlorophenol	ND	500
Phenanthrene	ND	100
Phenol	ND	100
Pyrene	ND	100
1,2,4-Trichlorobenzene	ND	100
2,4,5-Trichlorophenol	ND	100
2,4,6-Trichlorophenol	ND	100

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



Laboratory Representative

September 16, 1992

Date Reported

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(Certification No. E1211)

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ANALYSIS REPORT

Attention: Gary Pischke
RESNA Industries, Inc.
42501 Albrae St.
Fremont, CA 94538
Project: 19513-L, F3125.00
Sample ID: MW-1-2
Lab ID: S1209037

Date Sampled: 09-03-92
Date Received: 09-03-92
Date Analyzed: 09-15-92
Matrix: Soil

1020lab.frm

EPA METHOD 8270 QA/QC SHEET
UNITS ug/Kg

<u>COMPOUND NAME</u>	<u>MS</u>	<u>MSD</u>	<u>RPD</u>	<u>Limits</u>
4CHLORO-3-METHYLPHENOL	83%	77%	7.5%	22%-147%
2CHLOROPHENOL	77%	76%	1.3%	23%-134%
PENTACHLOROPHENOL	80%	79%	1.3%	14%-176%
PHENOL	74%	72%	2.7%	5%-112%
ACENAPHTHENE	86%	85%	1.2%	47%-145%
1,4-DICHLOROBENZENE	83%	88%	5.9%	20%-124%
2,4-DINITROTOLUENE	68%	70%	2.9%	39%-139%
N-NITROSO-DI-n-PROPYLAMINE	83%	86%	3.2%	D-230%
PYRENE	100%	103%	3.0%	54%-120%
1,2,4-TRICHLOROBENZENE	84%	82%	2.4%	44%-142%

ppb = parts per billion = $\mu\text{g}/\text{Kg}$ = micrograms per Kilogram.

RPD = Relative Percent Difference

D = Detectable



Laboratory Representative

September 16, 1992

Date Reported

ANALYSIS REPORT

Attention: Gary Pischke
 RESNA
 42501 Albrae st.
 Fremont, Ca 94538

Date Sampled: 09-04-92
 Date Received: 09-04-92
 Date Analyzed: 09-11-92
 Matrix: Soil

Project: 19513-1,F3125.00
 Sample ID: MW-3-1
 Lab ID: S1209103

EPA METHOD 8270

<u>COMPOUND NAME</u>	<u>ug/Kg</u>	<u>MDL</u>	<u>COMPOUND NAME</u>	<u>ug/Kg</u>	<u>MDL</u>
Acenaphthene	ND	1000	1,3-Dichlorobenzene	ND	1000
Acenaphthylene	ND	1000	1,4-Dichlorobenzene	ND	1000
Anthracene	ND	1000	1,2-Dichlorobenzene	ND	1000
Benzdine	ND	25000	3,3-dichlorobenzidine	ND	5000
Benzoic Acid	ND	1000	2,4-dichlorophenol	ND	1000
Benzo(a)anthracene	ND	1000	Diethyl phthalate	ND	1000
Benzo(b)fluoranthene	ND	1000	2,4-Dimethylphenol	ND	1000
Benzo(k)fluoranthene	ND	1000	Dimethyl phthalate	ND	1000
Benzo(g,h,i)perylene	ND	1000	4,6-Dinitro-2-methylphenol	ND	5000
Benzo(a)pyrene	ND	1000	2,4-Dinitrophenol	ND	5000
Benzyl alcohol	ND	1000	2,4-Dinitrotoluene	ND	1000
Bis(2-chloroethoxy)methane	ND	1000	2,6-Dinitrotoluene	ND	1000
Bis(2-chloroethyl)ether	ND	1000	Di-N-octyl phthalate	ND	1000
Bis(2-chloroisopropyl)ether	ND	1000	Fluoranthene	ND	1000
Bis(2-ethylhexyl)phthalate	ND	5000	Fluorene	ND	1000
4-Bromophenyl phenyl ether	ND	1000	Hexachlorobenzene	ND	1000
Butyl benzyl phthalate	ND	1000	Hexachlorobutadiene	ND	1000
4-Chloroaniline	ND	1000	Hexachlorocyclopentadiene	ND	1000
2-Chloronaphthalene	ND	1000	Hexachloroethane	ND	1000
4-Chloro-3-methylphenol	ND	1000	Indeno(1,2,3-cd)pyrene	ND	1000
2-Chlorophenol	ND	1000	Isophorone	ND	1000
4-Chlorophenyl phenyl ether	ND	1000	2-Methylnaphthalene	ND	1000
Chrysene	ND	1000	2-Methylphenol	ND	1000
Dibenz(a,h)anthracene	ND	1000	4-Methylphenol	ND	1000
Dibenzofuran	ND	1000	Naphthalene	ND	1000
Di-N-butyl phthlate	ND	5000	2-Nitroaniline	ND	1000

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

M. Tague

Laboratory Representative

September 16, 1992

Date Reported

RESNA ENVIRONMENTAL LABORATORY IS CERTIFIED BY THE STATE OF CALIFORNIA
 DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
 (Certification No. E1211)

42501 Albrae Street • Fremont, CA 94538 • Phone: (510) 623-0775 • (800) 247-5223 • FAX: (510) 651-8754

ANALYSIS REPORT

Attention: Gary Pischke
 RESNA
 42501 Albrae st.
 Fremont, Ca 94538

Project: 19513-L, F3125.00
 Sample ID: MW-3-1
 Lab ID: S1209103

Date Sampled: 09-04-92
 Date Received: 09-04-92
 Date Analyzed: 09-11-92
 Matrix: Soil

EPA METHOD 8270

<u>COMPOUND NAME</u>	<u>ug/Kg</u>	<u>MDL</u>
3-Nitroaniline	ND	1000
4-Nitroaniline	ND	1000
Nitrobenzene	ND	1000
2-Nitrophenol	ND	1000
4-Nitrophenol	ND	5000
N-Nitrosodiphenylamine	ND	1000
N-Nitroso-di-N-propylamine	ND	1000
Pentachlorophenol	ND	5000
Phenanthrene	ND	1000
Phenol	ND	1000
Pyrene	ND	1000
1,2,4-Trichlorobenzene	ND	1000
2,4,5-Trichlorophenol	ND	1000
2,4,6-Trichlorophenol	ND	1000

Due to matrix interference, detection limits have been raised.

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

M. Tague

Laboratory Representative

September 16, 1992

Date Reported

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 (Certification No. E1211)

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ANALYSIS REPORT

Attention: Gary Pischke
RESNA
42501 Albrae st.
Fremont, Ca 94538
Project: 19513-1,F3125.00
Sample ID: MW-3-2
Lab ID: S1209104

Date Sampled: 09-04-92
Date Received: 09-04-92
Date Analyzed: 09-11-92
Matrix: Soil

EPA METHOD 8270

<u>COMPOUND NAME</u>	<u>ug/Kg</u>	<u>MDL</u>	<u>COMPOUND NAME</u>	<u>ug/Kg</u>	<u>MDL</u>
Acenaphthene	ND	1000	1,3-Dichlorobenzene	ND	1000
Acenaphthylene	ND	1000	1,4-Dichlorobenzene	ND	1000
Anthracene	ND	1000	1,2-Dichlorobenzene	ND	1000
Benzidine	ND	25000	3,3-dichlorobenzidine	ND	5000
Benzoic Acid	ND	1000	2,4-dichlorophenol	ND	1000
Benzo(a) anthracene	3000	1000	Diethyl phthalate	ND	1000
Benzo(b)fluoranthene	3000	1000	2,4-Dimethylphenol	ND	1000
Benzo(k) fluoranthene	1300	1000	Dimethyl phthalate	ND	1000
Benzo(g,h,i) perylene	3000	1000	4,6-Dinitro-2-methylphenol	ND	5000
Benzo(a) pyrene	3700	1000	2,4-Dinitrophenol	ND	5000
Benzyl alcohol	ND	1000	2,4-Dinitrotoluene	ND	1000
Bis(2-chloroethoxy)methane	ND	1000	2,6-Dinitrotoluene	ND	1000
Bis(2-chloroethyl)ether	ND	1000	Di-N-octyl phthalate	ND	1000
Bis(2-chloroisopropyl)ether	ND	1000	Fluoranthene	1900	1000
Bis(2-ethylhexyl)phthalate	ND	5000	Fluorene	ND	1000
4-Bromophenyl phenyl ether	ND	1000	Hexachlorobenzene	ND	1000
Butyl benzyl phthalate	ND	1000	Hexachlorobutadiene	ND	1000
4-Chloroaniline	ND	1000	Hexachlorocyclopentadiene	ND	1000
2-Chloronaphthalene	ND	1000	Hexachloroethane	ND	1000
4-Chloro-3-methylphenol	ND	1000	Indeno(1,2,3-cd)pyrene	ND	1000
2-Chlorophenol	ND	1000	Isophorone	ND	1000
4-Chlorophenyl phenyl ether	ND	1000	2-Methylnaphthalene	ND	1000
Chrysene	3100	1000	2-Methylphenol	ND	1000
Dibenz(a,h)anthracene	ND	1000	4-Methylphenol	ND	1000
Dibenzofuran	ND	1000	Naphthalene	ND	1000
Di-N-butyl phthlate	ND	5000	2-Nitroaniline	ND	1000

ppb = parts per billion = ug/Kg = micrograms per Kilogram
 ND = Not detected. Compound(s) may be present at concentrations below the detection limit.
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VM Tague

Laboratory Representative

September 16, 1992

Date Reported

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 DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
 (Certification No. E1211)

42501 Albrae Street • Fremont, CA 94538 • Phone: (510) 623-0775 • (800) 247-5223 • FAX: (510) 651-8754

ANALYSIS REPORT

Attention: Gary Pischke
RESNA
42501 Albrae st.
Fremont, Ca 94538
Project: 19513-L, F3125.00
Sample ID: MW-3-2
Lab ID: S1209104

Date Sampled: 09-04-92
Date Received: 09-04-92
Date Analyzed: 09-11-92
Matrix: Soil

EPA METHOD 8270

<u>COMPOUND NAME</u>	<u>ug/Kg</u>	<u>MDL</u>
3-Nitroaniline	ND	1000
4-Nitroaniline	ND	1000
Nitrobenzene	ND	1000
2-Nitrophenol	ND	1000
4-Nitrophenol	ND	5000
N-Nitrosodiphenylamine	ND	1000
N-Nitroso-di-N-propylamine	ND	1000
Pentachlorophenol	ND	5000
Phenanthrene	ND	1000
Phenol	ND	1000
Pyrene	2500	1000
1,2,4-Trichlorobenzene	ND	1000
2,4,5-Trichlorophenol	ND	1000
2,4,6-Trichlorophenol	ND	1000

Due to matrix interference, detection limits have been raised.

ppb = parts per billion = ug/Kg = micrograms per Kilogram
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NR = Analysis not requested.



Laboratory Representative

September 16, 1992
Date Reported

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(Certification No. E1211)

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ANALYSIS REPORT

Attention: Gary Pischke
RESNA
42501 Albrae st.
Fremont, Ca 94538
Project: 19513-L, F3125.00
Sample ID: MW3-3
Lab ID: S1209105

Date Sampled: 09-04-92
Date Received: 09-04-92
Date Analyzed: 09-11-92
Matrix: Soil

EPA METHOD 8270

<u>COMPOUND NAME</u>	<u>ug/Kg</u>	<u>MDL</u>	<u>COMPOUND NAME</u>	<u>ug/Kg</u>	<u>MDL</u>
Acenaphthene	ND	100	1,3-Dichlorobenzene	ND	100
Acenaphthylene	ND	100	1,4-Dichlorobenzene	ND	100
Anthracene	ND	100	1,2-Dichlorobenzene	ND	100
Benzenidine	ND	2500	3,3-dichlorobenzidine	ND	500
Benzoic Acid	ND	100	2,4-dichlorophenol	ND	100
Benzo(a)anthracene	ND	100	Diethyl phthalate	ND	100
Benzo(b)fluoranthene	ND	100	2,4-Dimethylphenol	ND	100
Benzo(k)fluoranthene	ND	100	Dimethyl phthalate	ND	100
Benzo(g,h,i)perylene	ND	100	4,6-Dinitro-2-methylphenol	ND	500
Benzo(a)pyrene	ND	100	2,4-Dinitrophenol	ND	500
Benzyl alcohol	ND	100	2,4-Dinitrotoluene	ND	100
Bis(2-chloroethoxy)methane	ND	100	2,6-Dinitrotoluene	ND	100
Bis(2-chloroethyl)ether	ND	100	Di-N-octyl phthalate	ND	100
Bis(2-chloroisopropyl)ether	ND	100	Fluoranthene	ND	100
Bis(2-ethylhexyl)phthalate	ND	500	Fluorene	ND	100
4-Bromophenyl phenyl ether	ND	100	Hexachlorobenzene	ND	100
Butyl benzyl phthalate	ND	100	Hexachlorobutadiene	ND	100
4-Chloroaniline	ND	100	Hexachlorocyclopentadiene	ND	100
2-Chloronaphthalene	ND	100	Hexachloroethane	ND	100
4-Chloro-3-methylphenol	ND	100	Indeno(1,2,3-cd)pyrene	ND	100
2-Chlorophenol	ND	100	Isophorone	ND	100
4-Chlorophenyl phenyl ether	ND	100	2-Methylnaphthalene	ND	100
Chrysene	ND	100	2-Methylphenol	ND	100
Dibenz(a,h)anthracene	ND	100	4-Methylphenol	ND	100
Dibenzofuran	ND	100	Naphthalene	ND	100
Di-N-butyl phthlate	ND	500	2-Nitroaniline	ND	100

ppb = parts per billion = ug/Kg = micrograms per Kilogram
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M. Tague

Laboratory Representative

September 16, 1992
Date Reported

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 DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
 (Certification No. E1211)

ANALYSIS REPORT

Attention: Gary Pischke
RESNA
42501 Albrae st.
Fremont, Ca 94538

Date Sampled: 09-04-92
Date Received: 09-04-92
Date Analyzed: 09-11-92
Matrix: Soil

Project: 19513-L, F3125.00
Sample ID: MW3-3
Lab ID: S1209105

EPA METHOD 8270

<u>COMPOUND NAME</u>	<u>ug/Kg</u>	<u>MDL</u>
3-Nitroaniline	ND	100
4-Nitroaniline	ND	100
Nitrobenzene	ND	100
2-Nitrophenol	ND	100
4-Nitrophenol	ND	500
N-Nitrosodiphenylamine	ND	100
N-Nitroso-di-N-propylamine	ND	100
Pentachlorophenol	ND	500
Phenanthrene	ND	100
Phenol	ND	100
Pyrene	ND	100
1,2,4-Trichlorobenzene	ND	100
2,4,5-Trichlorophenol	ND	100
2,4,6-Trichlorophenol	ND	100

ppb = parts per billion = ug/Kg = micrograms per Kilogram
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M. Tague

Laboratory Representative

September 16, 1992

Date Reported

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(Certification No. E1211)

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ANALYSIS REPORT

Attention: Gary Pischke
 RESNA
 42501 Albrae st.
 Fremont, Ca 94538
 Project: 19513-1,F3125.00
 Sample ID: 38-1, 2
 Lab ID: S1209106

Date Sampled: 09-04-92
 Date Received: 09-04-92
 Date Analyzed: 09-11-92
 Matrix: Soil

EPA METHOD 8270

<u>COMPOUND NAME</u>	<u>ug/Kg</u>	<u>MDL</u>	<u>COMPOUND NAME</u>	<u>ug/Kg</u>	<u>MDL</u>
Acenaphthene	28000	1000	1,3-Dichlorobenzene	ND	1000
Acenaphthylene	ND	1000	1,4-Dichlorobenzene	ND	1000
Anthracene	26000	1000	1,2-Dichlorobenzene	ND	1000
Benzidine	ND	25000	3,3-dichlorobenzidine	ND	5000
Benzoic Acid	ND	1000	2,4-dichlorophenol	ND	1000
Benzo(a) anthracene	26000	1000	Diethyl phthalate	ND	1000
Benzo(b) fluoranthene	200000	1000	2,4-Dimethylphenol	ND	1000
Benzo(k) fluoranthene	150000	1000	Dimethyl phthalate	ND	1000
Benzo(g,h,i) perylene	120000	1000	4,6-Dinitro-2-methylphenol	ND	5000
Benzo(a)pyrene	ND	1000	2,4-Dinitrophenol	ND	5000
Benzyl alcohol	ND	1000	2,4-Dinitrotoluene	ND	1000
Bis(2-chloroethoxy)methane	ND	1000	2,6-Dinitrotoluene	ND	1000
Bis(2-chloroethyl)ether	ND	1000	Di-N-octyl phthalate	ND	1000
Bis(2-chloroisopropyl)ether	ND	1000	Fluoranthene	ND	1000
Bis(2-ethylhexyl)phthalate	ND	5000	F luorene	5200	1000
4-Bromophenyl phenyl ether	ND	1000	Hexachlorobenzene	ND	1000
Butyl benzyl phthalate	ND	1000	Hexachlorobutadiene	ND	1000
4-Chloroaniline	ND	1000	Hexachlorocyclopentadiene	ND	1000
2-Chloronaphthalene	ND	1000	Hexachloroethane	ND	1000
4-Chloro-3-methylphenol	ND	1000	Indeno(1,2,3-cd) pyrene	150000	1000
2-Chlorophenol	ND	1000	Isophorone	ND	1000
4-Chlorophenyl phenyl ether	ND	1000	2-Methylnaphthalene	1800	1000
Chrysene	120000	1000	2-Methylphenol	ND	1000
Dibenz(a,h)anthracene	150000	1000	4-Methylphenol	ND	1000
Dibenzofuran	1700	1000	Naphthalene	1400	1000
Di-N-butyl phthlate	ND	5000	2-Nitroaniline	ND	1000

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

M. Tague

Laboratory Representative

September 16, 1992

Date Reported

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 (Certification No. E1211)

42501 Albrae Street • Fremont, CA 94538 • Phone: (510) 623-0775 • (800) 247-5223 • FAX: (510) 651-8754

ANALYSIS REPORT

Attention: Gary Pischke
RESNA
42501 Albrae st.
Fremont, Ca 94538

Project: 19513-L, F3125.00
Sample ID: 38-1,2
Lab ID: S1209106

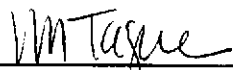
Date Sampled: 09-04-92
Date Received: 09-04-92
Date Analyzed: 09-11-92
Matrix: Soil

EPA METHOD 8270

<u>COMPOUND NAME</u>	<u>ug/Kg</u>	<u>MDL</u>
3-Nitroaniline	ND	1000
4-Nitroaniline	ND	1000
Nitrobenzene	ND	1000
2-Nitrophenol	ND	1000
4-Nitrophenol	ND	5000
N-Nitrosodiphenylamine	ND	1000
N-Nitroso-di-N-propylamine	ND	1000
Pentachlorophenol	ND	5000
Phenanthrene	72000	1000
Phenol	ND	1000
Pyrene	76000	1000
1,2,4-Trichlorobenzene	ND	1000
2,4,5-Trichlorophenol	ND	1000
2,4,6-Trichlorophenol	ND	1000

Due to matrix interference, detection limits have been raised.

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 Laboratory Representative

September 16, 1992

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 (Certification No. E1211)

ANALYSIS REPORT

Attention: Gary Pischke
RESNA
42501 Albrae st.
Fremont, Ca 94538
Project: 19513-1,F3125.00
Sample ID: 34-1, 2
Lab ID: S1209107

Date Sampled: 09-04-92
Date Received: 09-04-92
Date Analyzed: 09-11-92
Matrix: Soil

EPA METHOD 8270

<u>COMPOUND NAME</u>	<u>ug/Kg</u>	<u>MDL</u>	<u>COMPOUND NAME</u>	<u>ug/Kg</u>	<u>MDL</u>
Acenaphthene	1300	1000	1,3-Dichlorobenzene	ND	1000
Acenaphthylene	ND	1000	1,4-Dichlorobenzene	ND	1000
Anthracene	ND	1000	1,2-Dichlorobenzene	ND	1000
Benzdine	ND	25000	3,3-dichlorobenzidine	ND	5000
Benzoic Acid	ND	1000	2,4-dichlorophenol	ND	1000
Benzo(a)anthracene	9100	1000	Diethyl phthalate	ND	1000
Benzo(b)fluoranthene	13000	1000	2,4-Dimethylphenol	ND	1000
Benzo(k)fluoranthene	6200	1000	Dimethyl phthalate	ND	1000
Benzo(g,h,i)perylene	11000	1000	4,6-Dinitro-2-methylphenol	ND	5000
Benzo(a)pyrene	16000	1000	2,4-Dinitrophenol	ND	5000
Benzyl alcohol	ND	1000	2,4-Dinitrotoluene	ND	1000
Bis(2-chloroethoxy)methane	ND	1000	2,6-Dinitrotoluene	ND	1000
Bis(2-chloroethyl)ether	ND	1000	Di-N-octyl phthalate	ND	1000
Bis(2-chloroisopropyl)ether	ND	1000	Fluoranthene	7500	1000
Bis(2-ethylhexyl)phthalate	ND	5000	Fluorene	ND	1000
4-Bromophenyl phenyl ether	ND	1000	Hexachlorobenzene	ND	1000
Butyl benzyl phthalate	ND	1000	Hexachlorobutadiene	ND	1000
4-Chloroaniline	ND	1000	Hexachlorocyclopentadiene	ND	1000
2-Chloronaphthalene	ND	1000	Hexachloroethane	ND	1000
4-Chloro-3-methylphenol	ND	1000	Indeno(1,2,3-cd)pyrene	12000	1000
2-Chlorophenol	ND	1000	Isophorone	ND	1000
4-Chlorophenyl phenyl ether	ND	1000	2-Methylnaphthalene	ND	1000
Chrysene	8300	1000	2-Methylphenol	ND	1000
Dibenz(a,h)anthracene	9700	1000	4-Methylphenol	ND	1000
Dibenzofuran	ND	1000	Naphthalene	ND	1000
Di-N-butyl phthlate	ND	5000	2-Nitroaniline	ND	1000

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 ND = Not detected. Compound(s) may be present at concentrations below the detection limit.
 NR = Analysis not requested.

MTague

Laboratory Representative

September 16, 1992
Date Reported

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 DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
 (Certification No. E1211)

42501 Albrae Street • Fremont, CA 94538 • Phone: (510) 623-0775 • (800) 247-5223 • FAX: (510) 651-8754

ANALYSIS REPORT

Attention: Gary Pischke
RESNA
42501 Albrae st.
Fremont, Ca 94538
Project: 19513-L, F3125.00
Sample ID: 34-1,2
Lab ID: S1209107

Date Sampled: 09-04-92
Date Received: 09-04-92
Date Analyzed: 09-11-92
Matrix: Soil

EPA METHOD 8270

<u>COMPOUND NAME</u>	<u>ug/Kg</u>	<u>MDL</u>
3-Nitroaniline	ND	1000
4-Nitroaniline	ND	1000
Nitrobenzene	ND	1000
2-Nitrophenol	ND	1000
4-Nitrophenol	ND	5000
N-Nitrosodiphenylamine	ND	1000
N-Nitroso-di-N-propylamine	ND	1000
Pentachlorophenol	ND	5000
Phenanthrene	2000	1000
Phenol	ND	1000
Pyrene	9800	1000
1,2,4-Trichlorobenzene	ND	1000
2,4,5-Trichlorophenol	ND	1000
2,4,6-Trichlorophenol	ND	1000

Due to matrix interference, detection limits have been raised.

ppb = parts per billion = ug/Kg = micrograms per Kilogram
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Laboratory Representative

September 16, 1992

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(Certification No. E1211)

ANALYSIS REPORT

Attention: Gary Pischke
RESNA
42501 Albrae st.
Fremont, Ca 94538
Project: 19513-1,F3125.00
Sample ID: 22-1,2
Lab ID: S1209108

Date Sampled: 09-04-92
Date Received: 09-04-92
Date Analyzed: 09-11-92
Matrix: Soil

EPA METHOD 8270

<u>COMPOUND NAME</u>	<u>ug/Kg</u>	<u>MDL</u>	<u>COMPOUND NAME</u>	<u>ug/Kg</u>	<u>MDL</u>
Acenaphthene	24000	1000	1,3-Dichlorobenzene	ND	1000
Acenaphthylene	ND	1000	1,4-Dichlorobenzene	ND	1000
Anthracene	16000	1000	1,2-Dichlorobenzene	ND	1000
Benzidine	ND	25000	3,3-dichlorobenzidine	ND	5000
Benzoic Acid	ND	1000	2,4-dichlorophenol	ND	1000
Benzo(a)anthracene	140000	1000	Diethyl phthalate	ND	1000
Benzo(b)fluoranthene	ND	1000	2,4-Dimethylphenol	ND	1000
Benzo(k)fluoranthene	ND	1000	Dimethyl phthalate	ND	1000
Benzo(g,h,i)perylene	180000	1000	4,6-Dinitro-2-methylphenol	ND	5000
Benzo(a)pyrene	140000	1000	2,4-Dinitrophenol	ND	5000
Benzyl alcohol	ND	1000	2,4-Dinitrotoluene	ND	1000
Bis(2-chloroethoxy)methane	ND	1000	2,6-Dinitrotoluene	ND	1000
Bis(2-chloroethyl)ether	ND	1000	Di-N-octyl phthalate	ND	1000
Bis(2-chloroisopropyl)ether	ND	1000	Fluoranthene	120000	1000
Bis(2-ethylhexyl)phthalate	ND	5000	Fluorene	4500	1000
4-Bromophenyl phenyl ether	ND	1000	Hexachlorobenzene	ND	1000
Butyl benzyl phthalate	ND	1000	Hexachlorobutadiene	ND	1000
4-Chloroaniline	ND	1000	Hexachlorocyclopentadiene	ND	1000
2-Chloronaphthalene	ND	1000	Hexachloroethane	ND	1000
4-Chloro-3-methylphenol	ND	1000	Indeno(1,2,3-cd)pyrene	200000	1000
2-Chlorophenol	ND	1000	Isophorone	ND	1000
4-Chlorophenyl phenyl ether	ND	1000	2-Methylnaphthalene	ND	1000
Chrysene	110000	1000	2-Methylphenol	ND	1000
Dibenz(a,h)anthracene	150000	1000	4-Methylphenol	ND	1000
Dibenzofuran	2200	1000	Naphthalene	7200	1000
Di-N-butyl phthlate	ND	5000	2-Nitroaniline	ND	1000

ppb = parts per billion = ug/Kg = micrograms per Kilogram
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 NR = Analysis not requested.

MM Tague

Laboratory Representative

September 16, 1992
Date Reported

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 (Certification No. E1211)

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ANALYSIS REPORT

Attention: Gary Pischke
RESNA
42501 Albrae st.
Fremont, Ca 94538
Project: 19513-L, F3125.00
Sample ID: 22-1,2
Lab ID: S1209108

Date Sampled: 09-04-92
Date Received: 09-04-92
Date Analyzed: 09-11-92
Matrix: Soil

EPA METHOD 8270

<u>COMPOUND NAME</u>	<u>ug/Kg</u>	<u>MDL</u>
3-Nitroaniline	ND	1000
4-Nitroaniline	ND	1000
Nitrobenzene	ND	1000
2-Nitrophenol	ND	1000
4-Nitrophenol	ND	5000
N-Nitrosodiphenylamine	ND	1000
N-Nitroso-di-N-propylamine	ND	1000
Pentachlorophenol	ND	5000
Phenanthrene	47000	1000
Phenol	ND	1000
Pyrene	ND	1000
1,2,4-Trichlorobenzene	ND	1000
2,4,5-Trichlorophenol	ND	1000
2,4,6-Trichlorophenol	ND	1000

Due to matrix interference, detection limits have been raised.

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

M. Tague

Laboratory Representative

September 16, 1992

Date Reported

RESNA ENVIRONMENTAL LABORATORY IS CERTIFIED BY THE STATE OF CALIFORNIA
DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
(Certification No. E1211)

42501 Albrae Street • Fremont, CA 94538 • Phone: (510) 623-0775 • (800) 247-5223 • FAX: (510) 651-8754

ANALYSIS REPORT

Attention: Gary Pischke
 RESNA
 42501 Albrae st.
 Fremont, Ca 94538
 Project: 19513-1,F3125.00
 Sample ID: 24-1,2
 Lab ID: S1209109

Date Sampled: 09-04-92
 Date Received: 09-04-92
 Date Analyzed: 09-11-92
 Matrix: Soil

EPA METHOD 8270

<u>COMPOUND NAME</u>	<u>ug/Kg</u>	<u>MDL</u>	<u>COMPOUND NAME</u>	<u>ug/Kg</u>	<u>MDL</u>
Acenaphthene	33000	1000	1,3-Dichlorobenzene	ND	1000
Acenaphthylene	ND	1000	1,4-Dichlorobenzene	ND	1000
Anthracene	16000	1000	1,2-Dichlorobenzene	ND	1000
Benzidine	ND	25000	3,3-dichlorobenzidine	ND	5000
Benzoic Acid	ND	1000	2,4-dichlorophenol	ND	1000
Benzo(a)anthracene	160000	1000	Diethyl phthalate	ND	1000
Benzo(b)fluoranthene	380000	1000	2,4-Dimethylphenol	ND	1000
Benzo(k)fluoranthene	220000	1000	Dimethyl phthalate	ND	1000
Benzo(g,h,i)perylene	200000	1000	4,6-Dinitro-2-methylphenol	ND	5000
Benzo(a)pyrene	410000	1000	2,4-Dinitrophenol	ND	5000
Benzyl alcohol	ND	1000	2,4-Dinitrotoluene	ND	1000
Bis(2-chloroethoxy)methane	ND	1000	2,6-Dinitrotoluene	ND	1000
Bis(2-chloroethyl)ether	ND	1000	Di-N-octyl phthalate	ND	1000
Bis(2-chloroisopropyl)ether	ND	1000	Fluoranthene	130000	1000
Bis(2-ethylhexyl)phthalate	ND	5000	Fluorene	4700	1000
4-Bromophenyl phenyl ether	ND	1000	Hexachlorobenzene	ND	1000
Butyl benzyl phthalate	ND	1000	Hexachlorobutadiene	ND	1000
4-Chloroaniline	ND	1000	Hexachlorocyclopentadiene	ND	1000
2-Chloronaphthalene	ND	1000	Hexachloroethane	ND	1000
4-Chloro-3-methylphenol	ND	1000	Indeno(1,2,3-cd)pyrene	200000	1000
2-Chlorophenol	ND	1000	Isophorone	ND	1000
4-Chlorophenyl phenyl ether	ND	1000	2-Methylnaphthalene	ND	1000
Chrysene	140000	1000	2-Methylphenol	ND	1000
Dibenz(a,h)anthracene	210000	1000	4-Methylphenol	ND	1000
Dibenzofuran	2200	1000	Naphthalene	8900	1000
Di-N-butyl phthlate	ND	5000	2-Nitroaniline	ND	1000

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

MTague

Laboratory Representative

September 16, 1992
 Date Reported

RESNA ENVIRONMENTAL LABORATORY IS CERTIFIED BY THE STATE OF CALIFORNIA
 DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
 (Certification No. E1211)

42501 Albrae Street • Fremont, CA 94538 • Phone: (510) 623-0775 • (800) 247-5223 • FAX: (510) 651-8754

ANALYSIS REPORT

Attention: Gary Pischke
RESNA
42501 Albrae st.
Fremont, Ca 94538
Project: 19513-L, F3125.00
Sample ID: 24-1,2
Lab ID: S1209109

Date Sampled: 09-04-92
Date Received: 09-04-92
Date Analyzed: 09-11-92
Matrix: Soil

EPA METHOD 8270

<u>COMPOUND NAME</u>	<u>ug/Kg</u>	<u>MDL</u>
3-Nitroaniline	ND	1000
4-Nitroaniline	ND	1000
Nitrobenzene	ND	1000
2-Nitrophenol	ND	1000
4-Nitrophenol	ND	5000
N-Nitrosodiphenylamine	ND	1000
N-Nitroso-di-N-propylamine	ND	1000
Pentachlorophenol	ND	5000
Phenanthrene	49000	1000
Phenol	ND	1000
Pyrene	120000	1000
1,2,4-Trichlorobenzene	ND	1000
2,4,5-Trichlorophenol	ND	1000
2,4,6-Trichlorophenol	ND	1000

Due to matrix interference, detection limits have been raised.

ppb = parts per billion = ug/Kg = micrograms per Kilogram
ND = Not detected. Compound(s) may be present at concentrations below the detection limit.
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Laboratory Representative

September 16, 1992
Date Reported

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(Certification No. E1211)

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ANALYSIS REPORT

Attention: Gary Pischke
RESNA
42501 Albrae st.
Fremont, Ca 94538

Project: 19513-L, F3125.00
Sample ID: 48-1,2
Lab ID: S1209110

Date Sampled: 09-04-92
Date Received: 09-04-92
Date Analyzed: 09-11-92
Matrix: Soil

EPA METHOD 8270

<u>COMPOUND NAME</u>	<u>ug/Kg</u>	<u>MDL</u>	<u>COMPOUND NAME</u>	<u>ug/Kg</u>	<u>MDL</u>
Acenaphthene	ND	100	1,3-Dichlorobenzene	ND	100
Acenaphthylene	ND	100	1,4-Dichlorobenzene	ND	100
Anthracene	ND	100	1,2-Dichlorobenzene	ND	100
Benzo(a)anthracene	ND	100	3,3-dichlorobenzidine	ND	500
Benzo(b)fluoranthene	ND	100	2,4-dichlorophenol	ND	100
Benzo(k)fluoranthene	ND	100	Diethyl phthalate	ND	100
Benzo(g,h,i)perylene	ND	100	2,4-Dimethylphenol	ND	100
Benzo(a)pyrene	ND	100	Dimethyl phthalate	ND	100
Benzyl alcohol	ND	100	4,6-Dinitro-2-methylphenol	ND	500
Bis(2-chloroethoxy)methane	ND	100	2,4-Dinitrophenol	ND	500
Bis(2-chloroethyl)ether	ND	100	2,4-Dinitrotoluene	ND	100
Bis(2-chloroisopropyl)ether	ND	100	2,6-Dinitrotoluene	ND	100
Bis(2-ethylhexyl)phthalate	ND	500	Di-N-octyl phthalate	ND	100
4-Bromophenyl phenyl ether	ND	100	Fluoranthene	ND	100
Butyl benzyl phthalate	ND	100	Fluorene	ND	100
4-Chloroaniline	ND	100	Hexachlorobenzene	ND	100
2-Chloronaphthalene	ND	100	Hexachlorobutadiene	ND	100
4-Chloro-3-methylphenol	ND	100	Hexachlorocyclopentadiene	ND	100
2-Chlorophenol	ND	100	Hexachloroethane	ND	100
4-Chlorophenyl phenyl ether	ND	100	Indeno(1,2,3-cd)pyrene	ND	100
Chrysene	ND	100	Isophorone	ND	100
Dibenz(a,h)anthracene	ND	100	2-Methylnaphthalene	ND	100
Dibenzofuran	ND	100	2-Methylphenol	ND	100
Di-N-butyl phthlate	ND	500	4-Methylphenol	ND	100
			Naphthalene	ND	100
			2-Nitroaniline	ND	100

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

M. Tague

Laboratory Representative

September 16, 1992
Date Reported

RESNA ENVIRONMENTAL LABORATORY IS CERTIFIED BY THE STATE OF CALIFORNIA
 DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
 (Certification No. E1211)

ANALYSIS REPORT

Attention: Gary Pischke
RESNA
42501 Albrae st.
Fremont, Ca 94538
Project: 19513-L, F3125.00
Sample ID: 48-1,2
Lab ID: S1209110

Date Sampled: 09-04-92
Date Received: 09-04-92
Date Analyzed: 09-11-92
Matrix: Soil

EPA METHOD 8270

<u>COMPOUND NAME</u>	<u>ug/Kg</u>	<u>MDL</u>
3-Nitroaniline	ND	100
4-Nitroaniline	ND	100
Nitrobenzene	ND	100
2-Nitrophenol	ND	100
4-Nitrophenol	ND	500
N-Nitrosodiphenylamine	ND	100
N-Nitroso-di-N-propylamine	ND	100
Pentachlorophenol	ND	500
Phenanthrene	ND	100
Phenol	ND	100
Pyrene	ND	100
1,2,4-Trichlorobenzene	ND	100
2,4,5-Trichlorophenol	ND	100
2,4,6-Trichlorophenol	ND	100

ppb = parts per billion = ug/Kg = micrograms per Kilogram
ND = Not detected. Compound(s) may be present at concentrations below the detection limit.
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M. Tague

Laboratory Representative

September 16, 1992
Date Reported

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DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
(Certification No. E1211)

42501 Albrae Street • Fremont, CA 94538 • Phone: (510) 623-0775 • (800) 247-5223 • FAX: (510) 651-8754

ANALYSIS REPORT

Attention: Gary Pischke
RESNA
42501 Albrae st.
Fremont, Ca 94538
Project: 19513-L, F3125.00
Sample ID: 61-1,2
Lab ID: S1209111

Date Sampled: 09-04-92
Date Received: 09-04-92
Date Analyzed: 09-11-92
Matrix: Soil

EPA METHOD 8270

<u>COMPOUND NAME</u>	<u>ug/Kg</u>	<u>MDL</u>	<u>COMPOUND NAME</u>	<u>ug/Kg</u>	<u>MDL</u>
Acenaphthene	ND	100	1,3-Dichlorbenzene	ND	100
Acenaphthylene	ND	100	1,4-Dichlorobenzene	ND	100
Anthracene	ND	100	1,2-Dichlorobenzene	ND	100
Benidine	ND	2500	3,3-dichlorobenzidine	ND	500
Benzoic Acid	ND	100	2,4-dichlorophenol	ND	100
Benzo(a)anthracene	300	100	Diethyl phthalate	ND	100
Benzo(b)fluoranthene	370	100	2,4-Dimethylphenol	ND	100
Benzo(k)fluoranthene	ND	100	Dimethyl phthalate	ND	100
Benzo(g,h,i)perylene	ND	100	4,6-Dinitro-2-methylphenol	ND	500
Benzo(a)pyrene	ND	100	2,4-Dinitrophenol	ND	500
Benzyl alcohol	ND	100	2,4-Dinitrotoluene	ND	100
Bis(2-chloroethoxy)methane	ND	100	2,6-Dinitrotoluene	ND	100
Bis(2-chloroethyl)ether	ND	100	Di-N-octyl phthalate	460	100
Bis(2-chloroisopropyl)ether	ND	100	Fluoranthene	ND	100
Bis(2-ethylhexyl)phthalate	ND	500	Fluorene	ND	100
4-Bromophenyl phenyl ether	ND	100	Hexachlorobenzene	ND	100
Butyl benzyl phthalate	ND	100	Hexachlorobutadiene	ND	100
4-Chloroaniline	ND	100	Hexachlorocyclopentadiene	ND	100
2-Chloronaphthalene	ND	100	Hexachloroethane	ND	100
4-Chloro-3-methylphenol	ND	100	Indeno(1,2,3-cd)pyrene	ND	100
2-Chlorophenol	ND	100	Isophorone	ND	100
4-Chlorophenyl phenyl ether	ND	100	2-Methylnaphthalene	ND	100
Chrysene	270	100	2-Methylphenol	ND	100
Dibenz(a,h)anthracene	ND	100	4-Methylphenol	ND	100
Dibenzofuran	ND	100	Naphthalene	ND	100
Di-N-butyl phthlate	150	500	2-Nitroaniline	ND	100

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


 Laboratory Representative

September 16, 1992
 Date Reported

RESNA ENVIRONMENTAL LABORATORY IS CERTIFIED BY THE STATE OF CALIFORNIA
 DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
 (Certification No. E1211)

ANALYSIS REPORT

Attention: Gary Pischke
RESNA
42501 Albrae st.
Fremont, Ca 94538
Project: 19513-L, F3125.00
Sample ID: 61-1,2
Lab ID: S1209111

Date Sampled: 09-04-92
Date Received: 09-04-92
Date Analyzed: 09-11-92
Matrix: Soil

EPA METHOD 8270

<u>COMPOUND NAME</u>	<u>ug/Kg</u>	<u>MDL</u>
3-Nitroaniline	ND	100
4-Nitroaniline	ND	100
Nitrobenzene	ND	100
2-Nitrophenol	ND	100
4-Nitrophenol	ND	500
N-Nitrosodiphenylamine	ND	100
N-Nitroso-di-N-propylamine	ND	100
Pentachlorophenol	ND	500
Phenanthrene	320	100
Phenol	ND	100
Pyrene	ND	100
1,2,4-Trichlorobenzene	ND	100
1,4,5-Trichlorophenol	ND	100
2,4,6-Trichlorophenol	ND	100

ppb = parts per billion = ug/Kg = micrograms per Kilogram
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Laboratory Representative

September 16, 1992
Date Reported

ANALYSIS REPORT

Attention: Gary Pischke
RESNA
42501 Albrae st.
Fremont, Ca 94538
Project: 19513-L, F3125.00
Sample ID: 54-1,2
Lab ID: S1209112

Date Sampled: 09-04-92
Date Received: 09-04-92
Date Analyzed: 09-11-92
Matrix: Soil

EPA METHOD 8270

<u>COMPOUND NAME</u>	<u>ug/Kg</u>	<u>MDL</u>	<u>COMPOUND NAME</u>	<u>ug/Kg</u>	<u>MDL</u>
Acenaphthene	ND	100	1,3-Dichlorobenzene	ND	100
Acenaphthylene	ND	100	1,4-Dichlorobenzene	ND	100
Anthracene	ND	100	1,2-Dichlorobenzene	ND	100
Benzidine	ND	2500	3,3-dichlorobenzidine	ND	500
Benzoic Acid	ND	100	2,4-dichlorophenol	ND	100
Benzo(a)anthracene	ND	100	Diethyl phthalate	ND	100
Benzo(b)fluoranthene	120	100	2,4-Dimethylphenol	ND	100
Benzo(k)fluoranthene	ND	100	Dimethyl phthalate	ND	100
Benzo(g,h,i)perylene	ND	100	4,6-Dinitro-2-methylphenol	ND	500
Benzo(a)pyrene	120	100	2,4-Dinitrophenol	ND	500
Benzyl alcohol	ND	100	2,4-Dinitrotoluene	ND	100
Bis(2-chloroethoxy)methane	ND	100	2,6-Dinitrotoluene	ND	100
Bis(2-chloroethyl)ether	ND	100	Di-N-octyl phthalate	ND	100
Bis(2-chloroisopropyl)ether	ND	100	Fluoranthene	ND	100
Bis(2-ethylhexyl)phthalate	ND	500	Fluorene	ND	100
4-Bromophenyl phenyl ether	ND	100	Hexachlorobenzene	ND	100
Butyl benzyl phthalate	ND	100	Hexachlorobutadiene	ND	100
4-Chloroaniline	ND	100	Hexachlorocyclopentadiene	ND	100
2-Chloronaphthalene	ND	100	Hexachloroethane	ND	100
4-Chloro-3-methylphenol	ND	100	Indeno(1,2,3-cd)pyrene	ND	100
2-Chlorophenol	ND	100	Isophorone	ND	100
4-Chlorophenyl phenyl ether	ND	100	2-Methylnaphthalene	ND	100
Chrysene	ND	100	2-Methylphenol	ND	100
Dibenz(a,h)anthracene	ND	100	4-Methylphenol	ND	100
Dibenzofuran	ND	100	Naphthalene	ND	100
Di-N-butyl phthlate	ND	500	2-Nitroaniline	ND	100

ppb = parts per billion = ug/Kg = micrograms per Kilogram

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NR = Analysis not requested.

M. Tague

Laboratory Representative

September 16, 1992

Date Reported

RESNA ENVIRONMENTAL LABORATORY IS CERTIFIED BY THE STATE OF CALIFORNIA
DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
(Certification No. E1211)

42501 Albrae Street • Fremont, CA 94538 • Phone: (510) 623-0775 • (800) 247-5223 • FAX: (510) 651-8754

ANALYSIS REPORT

Attention: Gary Pischke
RESNA
42501 Albrae st.
Fremont, Ca 94538
Project: 19513-L, F3125.00
Sample ID: 54-1,2
Lab ID: S1209112

Date Sampled: 09-04-92
Date Received: 09-04-92
Date Analyzed: 09-11-92
Matrix: Soil

EPA METHOD 8270

<u>COMPOUND NAME</u>	<u>ug/Kg</u>	<u>MDL</u>
3-Nitroaniline	ND	100
4-Nitroaniline	ND	100
Nitrobenzene	ND	100
2-Nitrophenol	ND	100
4-Nitrophenol	ND	500
N-Nitrosodiphenylamine	ND	100
N-Nitroso-di-N-propylamine	ND	100
Pentachlorophenol	ND	500
Phenanthrene	ND	100
Phenol	ND	100
Pyrene	ND	100
1,2,4-Trichlorobenzene	ND	100
2,4,5-Trichlorophenol	ND	100
2,4,6-Trichlorophenol	ND	100

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

M. Tague

Laboratory Representative

September 16, 1992

Date Reported

RESNA ENVIRONMENTAL LABORATORY IS CERTIFIED BY THE STATE OF CALIFORNIA
DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
(Certification No. E1211)

ANALYSIS REPORT

Attention: Gary Pischke
RESNA
42501 Albrae st.
Fremont, Ca 94538
Project: 19513-L, F3125.00
Sample ID: 43-1,2
Lab ID: S1209113

Date Sampled: 09-04-92
Date Received: 09-04-92
Date Analyzed: 09-11-92
Matrix: Soil

EPA METHOD 8270

<u>COMPOUND NAME</u>	<u>ug/Kg</u>	<u>MDL</u>	<u>COMPOUND NAME</u>	<u>ug/Kg</u>	<u>MDL</u>
Acenaphthene	ND	100	1,3-Dichlorobenzene	ND	100
Acenaphthylene	ND	100	1,4-Dichlorobenzene	ND	100
Anthracene	ND	100	1,2-Dichlorobenzene	ND	100
Benzidine	ND	2500	3,3-dichlorobenzidine	ND	500
Benzoic Acid	ND	100	2,4-dichlorophenol	ND	100
Benzo(a)anthracene	270	100	Diethyl phthalate	ND	100
Benzo(b)fluoranthene	370	100	2,4-Dimethylphenol	ND	100
Benzo(k)fluoranthene	ND	100	Dimethyl phthalate	ND	100
Benzo(g,h,i)perylene	ND	100	4,6-Dinitro-2-methylphenol	ND	500
Benzo(a)pyrene	ND	100	2,4-Dinitrophenol	ND	500
Benzyl alcohol	ND	100	2,4-Dinitrotoluene	ND	100
Bis(2-chloroethoxy)methane	ND	100	2,6-Dinitrotoluene	ND	100
Bis(2-chloroethyl)ether	ND	100	Di-N-octyl phthalate	ND	100
Bis(2-chloroisopropyl)ether	ND	100	Fluoranthene	280	100
Bis(2-ethylhexyl)phthalate	ND	500	Fluorene	ND	100
4-Bromophenyl phenyl ether	ND	100	Hexachlorobenzene	ND	100
Butyl benzyl phthalate	ND	100	Hexachlorobutadiene	ND	100
4-Chloroaniline	ND	100	Hexachlorocyclopentadiene	ND	100
2-Chloronaphthalene	ND	100	Hexachloroethane	ND	100
4-Chloro-3-methylphenol	ND	100	Indeno(1,2,3-cd)pyrene	ND	100
2-Chlorophenol	ND	100	Isophorone	ND	100
4-Chlorophenyl phenyl ether	ND	100	2-Methylnaphthalene	ND	100
Chrysene	240	100	2-Methylphenol	ND	100
Dibenz(a,h)anthracene	ND	100	4-Methylphenol	ND	100
Dibenzofuran	ND	100	Naphthalene	ND	100
Di-N-butyl phthlate	250	500	2-Nitroaniline	ND	100

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

VM Tague

Laboratory Representative

September 16, 1992
Date Reported

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 DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
 (Certification No. E1211)

42501 Albrae Street • Fremont, CA 94538 • Phone: (510) 623-0775 • (800) 247-5223 • FAX: (510) 651-8754

ANALYSIS REPORT

Attention: Gary Pischke
RESNA
42501 Albrae st.
Fremont, Ca 94538
Project: 19513-L, F3125.00
Sample ID: 43-1,2
Lab ID: S1209113

Date Sampled: 09-04-92
Date Received: 09-04-92
Date Analyzed: 09-11-92
Matrix: Soil

EPA METHOD 8270

<u>COMPOUND NAME</u>	<u>ug/Kg</u>	<u>MDL</u>
3-Nitroaniline	ND	100
4-Nitroaniline	ND	100
Nitrobenzene	ND	100
2-Nitrophenol	ND	100
4-Nitrophenol	ND	500
N-Nitrosodiphenylamine	560	100
N-Nitroso-di-N-propylamine	ND	100
Pentachlorophenol	ND	500
Phenanthrene	ND	100
Phenol	ND	100
Pyrene	ND	100
1,2,4-Trichlorobenzene	ND	100
2,4,5-Trichlorophenol	ND	100
2,4,6-Trichlorophenol	ND	100

ppb = parts per billion = ug/Kg = micrograms per Kilogram
ND = Not detected. Compound(s) may be present at concentrations below the detection limit.
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September 16, 1992

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42501 Albrae Street • Fremont, CA 94538 • Phone: (510) 623-0775 • (800) 247-5223 • FAX: (510) 651-8754

ANALYSIS REPORT

Attention: Gary Pischke
RESNA
42501 Albrae st.
Fremont, Ca 94538
Project: 19513-1,F3125.00
Sample ID: 28-1,2
Lab ID: S1209114

Date Sampled: 09-04-92
Date Received: 09-04-92
Date Analyzed: 09-11-92
Matrix: Soil

EPA METHOD 8270

<u>COMPOUND NAME</u>	<u>ug/Kg</u>	<u>MDL</u>	<u>COMPOUND NAME</u>	<u>ug/Kg</u>	<u>MDL</u>
Acenaphthene	ND	1000	1,3-Dichlorbenzene	ND	1000
Acenaphthylene	ND	1000	1,4-Dichlorobenzene	ND	1000
Anthracene	ND	1000	1,2-Dichlorobenzene	ND	1000
Benzidine	ND	25000	3,3-dichlorobenzidine	ND	5000
Benzoic Acid	ND	1000	2,4-dichlorophenol	ND	1000
Benzo(a)anthracene	ND	1000	Diethyl phthalate	ND	1000
Benzo(b)fluoranthene	ND	1000	2,4-Dimethylphenol	ND	1000
Benzo(k)fluoranthene	ND	1000	Dimethyl phthalate	ND	1000
Benzo(g,h,i)perylene	ND	1000	4,6-Dinitro-2-methylphenol	ND	5000
Benzo(a)pyrene	ND	1000	2,4-Dinitrophenol	ND	5000
Benzyl alcohol	ND	1000	2,4-Dinitrotoluene	ND	1000
Bis(2-chloroethoxy)methane	ND	1000	2,6-Dinitrotoluene	ND	1000
Bis(2-chloroethyl)ether	ND	1000	Di-N-octyl phthalate	ND	1000
Bis(2-chloroisopropyl)ether	ND	1000	Fluoranthene	ND	1000
Bis(2-ethylhexyl)phthalate	ND	5000	Fluorene	ND	1000
4-Bromophenyl phenyl ether	ND	1000	Hexachlorobenzene	ND	1000
Butyl benzyl phthalate	ND	1000	Hexachlorobutadiene	ND	1000
4-Chloroaniline	ND	1000	Hexachlorocyclopentadiene	ND	1000
2-Chloronaphthalene	ND	1000	Hexachloroethane	ND	1000
4-Chloro-3-methylphenol	ND	1000	Indeno(1,2,3-cd)pyrene	ND	1000
2-Chlorophenol	ND	1000	Isophorone	ND	1000
4-Chlorophenyl phenyl ether	ND	1000	2-Methylnaphthalene	ND	1000
Chrysene	ND	1000	2-Methylphenol	ND	1000
Dibenz(a,h)anthracene	ND	1000	4-Methylphenol	ND	1000
Dibenzofuran	ND	1000	Naphthalene	ND	1000
Di-N-butyl phthlate	ND	5000	2-Nitroaniline	ND	1000

ppb = parts per billion = ug/Kg = micrograms per Kilogram

ND = Not detected. Compound(s) may be present at concentrations below the detection limit.

NR = Analysis not requested.

MTague

Laboratory Representative

September 16, 1992

Date Reported

RESNA ENVIRONMENTAL LABORATORY IS CERTIFIED BY THE STATE OF CALIFORNIA
DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
(Certification No. E1211)

42501 Albrae Street • Fremont, CA 94538 • Phone: (510) 623-0775 • (800) 247-5223 • FAX: (510) 651-8754

ANALYSIS REPORT

Attention: Gary Pischke
RESNA
42501 Albrae st.
Fremont, Ca 94538
Project: 19513-L, F3125.00
Sample ID: 28-1,2
Lab ID: S1209114

Date Sampled: 09-04-92
Date Received: 09-04-92
Date Analyzed: 09-11-92
Matrix: Soil

EPA METHOD 8270

<u>COMPOUND NAME</u>	<u>ug/Kg</u>	<u>MDL</u>
3-Nitroaniline	ND	1000
4-Nitroaniline	ND	1000
Nitrobenzene	ND	1000
2-Nitrophenol	ND	1000
4-Nitrophenol	ND	5000
N-Nitrosodiphenylamine	ND	1000
N-Nitroso-di-N-propylamine	ND	1000
Pentachlorophenol	ND	5000
Phenanthrene	ND	1000
Phenol	ND	1000
Pyrene	ND	1000
1,2,4-Trichlorobenzene	ND	1000
2,4,5-Trichlorophenol	ND	1000
2,4,6-Trichlorophenol	ND	1000

Due to matrix interference, detection limits have been raised.

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

MTague

Laboratory Representative

September 16, 1992
Date Reported

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ANALYSIS REPORT

Attention: Gary Pischke
RESNA
42501 Albrae st.
Fremont, Ca 94538
Project: 19513-1,F3125.00
Sample ID: 27-1,2
Lab ID: S1209115

Date Sampled: 09-04-92
Date Received: 09-04-92
Date Analyzed: 09-11-92
Matrix: Soil

EPA METHOD 8270

<u>COMPOUND NAME</u>	<u>ug/Kg</u>	<u>MDL</u>	<u>COMPOUND NAME</u>	<u>ug/Kg</u>	<u>MDL</u>
Acenaphthene	ND	1000	1,3-Dichlorobenzene	ND	1000
Acenaphthylene	ND	1000	1,4-Dichlorobenzene	ND	1000
Anthracene	ND	1000	1,2-Dichlorobenzene	ND	1000
Benzidine	ND	25000	3,3-dichlorobenzidine	ND	5000
Benzoic Acid	ND	1000	2,4-dichlorophenol	ND	1000
Benzo(a)anthracene	ND	1000	Diethyl phthalate	ND	1000
Benzo(b)fluoranthene	ND	1000	2,4-Dimethylphenol	ND	1000
Benzo(k)fluoranthene	ND	1000	Dimethyl phthalate	ND	1000
Benzo(g,h,i)perylene	ND	1000	4,6-Dinitro-2-methylphenol	ND	5000
Benzo(a)pyrene	ND	1000	2,4-Dinitrophenol	ND	5000
Benzyl alcohol	ND	1000	2,4-Dinitrotoluene	ND	1000
Bis(2-chloroethoxy)methane	ND	1000	2,6-Dinitrotoluene	ND	1000
Bis(2-chloroethyl)ether	ND	1000	Di-N-octyl phthalate	ND	1000
Bis(2-chloroisopropyl)ether	ND	1000	Fluoranthene	ND	1000
Bis(2-ethylhexyl)phthalate	ND	5000	Fluorene	ND	1000
4-Bromophenyl phenyl ether	ND	1000	Hexachlorobenzene	ND	1000
Butyl benzyl phthalate	ND	1000	Hexachlorobutadiene	ND	1000
4-Chloroaniline	ND	1000	Hexachlorocyclopentadiene	ND	1000
2-Chloronaphthalene	ND	1000	Hexachloroethane	ND	1000
4-Chloro-3-methylphenol	ND	1000	Indeno(1,2,3-cd)pyrene	ND	1000
2-Chlorophenol	ND	1000	Isophorone	ND	1000
4-Chlorophenyl phenyl ether	ND	1000	2-Methylnaphthalene	ND	1000
Chrysene	ND	1000	2-Methylphenol	ND	1000
Dibenz(a,h)anthracene	ND	1000	4-Methylphenol	ND	1000
Dibenzofuran	ND	1000	Naphthalene	ND	1000
Di-N-butyl phthlate	ND	5000	2-Nitroaniline	ND	1000

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



 Laboratory Representative

September 16, 1992

 Date Reported

ANALYSIS REPORT

Attention: Gary Pischke
RESNA
42501 Albrae st.
Fremont, Ca 94538
Project: 19513-L, F3125.00
Sample ID: 27-1,2
Lab ID: S1209115

Date Sampled: 09-04-92
Date Received: 09-04-92
Date Analyzed: 09-11-92
Matrix: Soil

EPA METHOD 8270

<u>COMPOUND NAME</u>	<u>ug/Kg</u>	<u>MDL</u>
3-Nitroaniline	ND	1000
4-Nitroaniline	ND	1000
Nitrobenzene	ND	1000
2-Nitrophenol	ND	1000
4-Nitrophenol	ND	5000
N-Nitrosodiphenylamine	ND	1000
N-Nitroso-di-N-propylamine	ND	1000
Pentachlorophenol	ND	5000
Phenanthrene	ND	1000
Phenol	ND	1000
Pyrene	ND	1000
1,2,4-Trichlorobenzene	ND	1000
2,4,5-Trichlorophenol	ND	1000
2,4,6-Trichlorophenol	ND	1000

Due to matrix interference, detection limits have been raised.

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



Laboratory Representative

September 16, 1992
Date Reported

ANALYSIS REPORT

1020lab.frm

Attention: Gary Pischke
RESNA Industries, Inc.
42501 Albrae St.
Fremont, CA 94538

Date Sampled: 09-04-92
Date Received: 09-04-92
Date Analyzed: 09-11-92
Matrix: Soil

Project: 19513-L, F3125.00
Sample ID: MW-3-3
Lab ID: S1209105

EPA METHOD 8270 QA/QC SHEET
UNITS ug/Kg

<u>COMPOUND NAME</u>	<u>MS</u>	<u>MSD</u>	<u>RPD</u>	<u>Limits</u>
4CHLORO-3-METHYLPHENOL	76%	80%	5.1%	22%-147%
2CHLOROPHENOL	72%	70%	2.8%	23%-134%
PENTACHLOROPHENOL	69%	74%	7.0%	14%-176%
PHENOL	75%	76%	1.3%	5%-112%
ACENAPHTHENE	78%	88%	12%	47%-145%
1,4-DICHLOROBENZENE	68%	66%	3.0%	20%-124%
2,4-DINITROTOLUENE	81%	72%	12%	39%-139%
N-NITROSO-DI-n-PROPYLAMINE	85%	86%	1.2%	D-230%
PYRENE	95%	108%	13%	54%-120%
1,2,4-TRICHLOROBENZENE	66%	68%	3.0%	44%-142%

ppb = parts per billion = $\mu\text{g}/\text{Kg}$ = micrograms per Kilogram.
RPD = Relative Percent Difference
D = Detectable



Laboratory Representative

September 16, 1992
Date Reported

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(Certification No. 1211)

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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 3, 1992
42501 Albrae Street, Suite 100	Sample Descript: Soil, MW1-1	Received: Sep 4, 1992
Fremont, CA 94538		Extracted: 9/10, 11/92
Attention: Anthony Enerio	Lab Number: 209-0907	Reported: Sep 17, 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)	TTL Max. Limit (mg/kg)	Detection Limit (mg/kg)	Analysis Result (mg/kg)
Antimony	15	0.10	--	500	5.0	--
Arsenic	5.0	0.10	--	500	5.0	--
Barium	100	0.10	--	10,000	5.0	--
Beryllium	0.75	0.010	--	75	0.50	--
Cadmium	1.0	0.010	--	100	0.50	--
Chromium (VI)	5.0	0.0050	--	500	0.050	--
Chromium (III)	560	0.010	--	2,500	0.50	--
Cobalt	80	0.050	--	8,000	2.5	--
Copper	25	0.010	0.79	2,500	0.50	31
Lead	5.0	0.10	N.D.	1,000	5.0	N.D.
Mercury	0.20	0.00020	--	20	0.010	--
Molybdenum	350	0.050	--	3,500	2.5	--
Nickel	20	0.050	--	2,000	2.5	--
Selenium	1.0	0.10	--	100	5.0	--
Silver	5.0	0.010	--	500	0.50	--
Thallium	7.0	0.10	--	700	5.0	--
Vanadium	24	0.050	--	2,400	2.5	--
Zinc	250	0.010	--	5,000	0.50	--
Asbestos	-	10	--	10,000	100	--
Fluoride	180	0.10	--	18,000	1.0	--

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

SEQUOIA ANALYTICAL

Christine Middleton
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 3, 1992
42501 Albrae Street, Suite 100	Sample Descript: Soil, MW1-2	Received: Sep 4, 1992
Fremont, CA 94538		Extracted: 9/10, 11/92
Attention: Anthony Enerio	Lab Number: 209-0908	Reported: Sep 17, 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)	TTL Max. Limit (mg/kg)	Detection Limit (mg/kg)	Analysis Result (mg/kg)
Antimony	15	0.10	--	500	5.0	--
Arsenic	5.0	0.10	--	500	5.0	--
Barium	100	0.10	--	10,000	5.0	--
Beryllium	0.75	0.010	--	75	0.50	--
Cadmium	1.0	0.010	--	100	0.50	--
Chromium (VI)	5.0	0.0050	--	500	0.050	--
Chromium (III)	560	0.010	--	2,500	0.50	--
Cobalt	80	0.050	--	8,000	2.5	--
Copper	25	0.010	0.51	2,500	0.50	3.4
Lead	5.0	0.10	N.D.	1,000	5.0	N.D.
Mercury	0.20	0.00020	--	20	0.010	--
Molybdenum	350	0.050	--	3,500	2.5	--
Nickel	20	0.050	--	2,000	2.5	--
Selenium	1.0	0.10	--	100	5.0	--
Silver	5.0	0.010	--	500	0.50	--
Thallium	7.0	0.10	--	700	5.0	--
Vanadium	24	0.050	--	2,400	2.5	--
Zinc	250	0.010	--	5,000	0.50	--
Asbestos	-	10	--	10,000	100	--
Fluoride	180	0.10	--	18,000	1.0	--

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

SEQUOIA ANALYTICAL

Christine Maddalon
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 3, 1992
42501 Albrae Street, Suite 100	Sample Descript: Soil, MW2-1	Received: Sep 4, 1992
Fremont, CA 94538		Extracted: 9/10, 11/92
Attention: Anthony Enerio	Lab Number: 209-0909	Reported: Sep 17, 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)	TTL Max. Limit (mg/kg)	Detection Limit (mg/kg)	Analysis Result (mg/kg)
Antimony	15	0.10	--	500	5.0	--
Arsenic	5.0	0.10	--	500	5.0	--
Barium	100	0.10	--	10,000	5.0	--
Beryllium	0.75	0.010	--	75	0.50	--
Cadmium	1.0	0.010	--	100	0.50	--
Chromium (VI)	5.0	0.0050	--	500	0.050	--
Chromium (III)	560	0.010	--	2,500	0.50	--
Cobalt	80	0.050	--	8,000	2.5	--
Copper	25	0.010	0.71	2,500	0.50	58
Lead	5.0	0.10	N.D.	1,000	5.0	N.D.
Mercury	0.20	0.00020	--	20	0.010	--
Molybdenum	350	0.050	--	3,500	2.5	--
Nickel	20	0.050	--	2,000	2.5	--
Selenium	1.0	0.10	--	100	5.0	--
Silver	5.0	0.010	--	500	0.50	--
Thallium	7.0	0.10	--	700	5.0	--
Vanadium	24	0.050	--	2,400	2.5	--
Zinc	250	0.010	--	5,000	0.50	--
Asbestos	-	10	--	10,000	100	--
Fluoride	180	0.10	--	18,000	1.0	--

TTL results are reported as mg/kg of wet weight. 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: F3125.00/Doric Construction	Sampled: Sep 3, 1992
42501 Albrae Street, Suite 100	Sample Descript: Soil, MW2-2	Received: Sep 4, 1992
Fremont, CA 94538	Lab Number: 209-0910	Extracted: 9/10, 11/92
Attention: Anthony Enerio		Reported: Sep 17, 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)	TTL Max. Limit (mg/kg)	Detection Limit (mg/kg)	Analysis Result (mg/kg)
Antimony	15	0.10	--	500	5.0	--
Arsenic	5.0	0.10	--	500	5.0	--
Barium	100	0.10	--	10,000	5.0	--
Beryllium	0.75	0.010	--	75	0.50	--
Cadmium	1.0	0.010	--	100	0.50	--
Chromium (VI)	5.0	0.0050	--	500	0.050	--
Chromium (III)	560	0.010	--	2,500	0.50	--
Cobalt	80	0.050	--	8,000	2.5	--
Copper	25	0.010	0.057	2,500	0.50	3.1
Lead	5.0	0.10	N.D.	1,000	5.0	N.D.
Mercury	0.20	0.00020	--	20	0.010	--
Molybdenum	350	0.050	--	3,500	2.5	--
Nickel	20	0.050	--	2,000	2.5	--
Selenium	1.0	0.10	--	100	5.0	--
Silver	5.0	0.010	--	500	0.50	--
Thallium	7.0	0.10	--	700	5.0	--
Vanadium	24	0.050	--	2,400	2.5	--
Zinc	250	0.010	--	5,000	0.50	--
Asbestos	-	10	--	10,000	100	--
Fluoride	180	0.10	--	18,000	1.0	--

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

SEQUOIA ANALYTICAL

Christine Madden
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: 2090907-10

Reported: Sep 17, 1992

QUALITY CONTROL DATA REPORT

ANALYTE	Lead	Copper
---------	------	--------

Method:	EPA 6010	EPA 6010
Analyst:	C. Medefesser	C. Medefesser
Reporting Units:	mg/kg	mg/kg
Date Analyzed:	Sep 14, 1992	Sep 14, 1992
QC Sample #:	209-1393	209-0885

Sample Conc.:	24	1300
Spike Conc. Added:	100	100
Conc. Matrix Spike:	120	1400
Matrix Spike % Recovery:	96	100
Conc. Matrix Spike Dup.:	120	1400
Matrix Spike Duplicate % Recovery:	96	100
Relative % Difference:	0.0	0.0

SEQUOIA ANALYTICAL

Christen Madeten

Maria Lee
Project Manager

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



SEQUOIA ANALYTICAL

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(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: 2090907-10

Reported: Sep 17, 1992

QUALITY CONTROL DATA REPORT- STLC

ANALYTE

Copper

Lead

Method:	EPA 6010	EPA 6010
Analyst:	M. Mistry	M. Mistry
Reporting Units:	mg/L	mg/L
Date Analyzed:	Sep 15, 1992	Sep 15, 1992
QC Sample #:	209-0844	209-0844

Sample Conc.:	0.16	0.21
Spike Conc. Added:	10	10
Conc. Matrix Spike:	11	9.5
Matrix Spike % Recovery:	108	93
Conc. Matrix Spike Dup.:	11	9.3
Matrix Spike Duplicate % Recovery:	108	91
Relative % Difference:	0.0	2.1

SEQUOIA ANALYTICAL

Christine Maddalon

Maria Lee
Project Manager

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



CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

095474

PROJECT NO. F3125.00		PROJECT NAME/SITE Harbor Bay / Dune Const.					ANALYSIS REQUESTED										P.O. #:				
SAMPLERS <i>Sheryl Danta</i>		(SIGN) / (PRINT) <i>Sheryl Fontaine</i>					NO. CONTAINERS	SAMPLE TYPE	BTEX (602/8020) TPHg (8015) TPHd (8015) TOG 418.1/5520 601/8010 824/8240 825/8270/8270 ep.v. <u>ATLC</u> Copper/Lead <u>PTA'S</u> <u>W/Pb</u> <u>W/SF</u>										REMARKS		
SAMPLE IDENTIFICATION	DATE	TIME	COMP	GRAB	PRES. USED	ICED			1	S											
MW-3-1	9/4/92	10:20	X			X	1	S							X	X	X				51209103
MW-3-2	9/4/92	10:25	X			X	1	S							X	X	X				104
MW-3-3	9/4/92	10:30	X			X	1	S							X	X	X				105
38-1,2		9:45		X			2	S							X	X	X	X			Comp 1/1/92 Sample
34-1,2		1:15		X			2	S							X	X	X	X			107
22-1,2		1:30		X			2	S							X	X	X	X			108
24-1,2		2:15		X			2	S							X	X	X	X			109
48-1,2		2:45		X			2	S							X	X	X	X			110
61-1,2		3:00		X			2	S							X	X	X	X			111
54-1,2		3:15		X			2	S							X	X	X	X			112
43-1,2		3:30		X			2	S							X	X	X	X			113
28-1,2		3:45		X			2	S							X	X	X	X			114
27-1,2		4:00		X			2	S							X	X	X	X			115

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	LABORATORY:	PLEASE SEND RESULTS TO:
				RESNA	<i>Sheryl F. / Gary P.</i>
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	REQUESTED TURNAROUND TIME:	
				Normal	
RELINQUISHED BY:	DATE	TIME	RECEIVED BY LABORATORY:	RECEIPT CONDITION:	PROJECT MANAGER:
<i>Sheryl Danta</i>	9/4/92	4:40	<i>Anthony Lewis</i>	Good	<i>Gary Pischke</i>



SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9800 • FAX (415) 364-9233

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

Client Project ID: F3125.00, Doric Construction
Sample Descript: Water, MW-1
Lab Number: 209-3067

Sampled: Sep 16, 1992
Received: Sep 18, 1992
Extracted: Sep 22, 1992
Reported: Oct 2, 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)	TTL 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.

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Project Manager



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RESNA	Client Project ID: F3125.00, Doric Construction	Sampled: Sep 16, 1992
42501 Albrae Street, Suite 100	Sample Descript: Water, MW-2	Received: Sep 18, 1992
Fremont, CA 94538	Lab Number: 209-3068	Extracted: Sep 22, 1992
Attention: Anthony Enerio		Reported: Oct 2, 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)	TTL 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	0.038
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.

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Project Manager



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

Client Project ID: 30125-31. Harbor Bay/Doric Construction
Sample Descript: Water, MW-1
Lab Number: 209-0721

Sampled: Sep 1, 1992
Received: Sep 2, 1992
Extracted: 9/8, 9/92
Reported: Sep 14, 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)	TTL 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	0.023
Lead	5	0.0050	N.D.	1,000	0.0050	0.020
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.

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

Client Project ID: 30125-31, Harbor Bay/Doric Construction

QC Sample Group: 209-0721

Reported: Sep 14, 1992

QUALITY CONTROL DATA REPORT

ANALYTE	Lead STLC	Lead TTLC	Copper STLC	Copper TTLC
Method:	EPA 239.2	EPA 239.2	EPA 6010	EPA 200.7
Analyst:	S. Chin	S. Chin	M. Mistry	C. Medefesser
Reporting Units:	mg/L	mg/L	mg/L	mg/L
Date Analyzed:	Sep 9, 1992	Sep 10, 1992	Sep 10, 1992	Sep 10, 1992
QC Sample #:	209-0721	209-0690	209-0721	209-0800
Sample Conc.:	N.D.	N.D.	N.D.	0.015
Spike Conc. Added:	0.050	0.050	1.0	1.0
Conc. Matrix Spike:	0.051	0.054	1.0	1.1
Matrix Spike % Recovery:	102	108	100	109
Conc. Matrix Spike Dup.:	0.051	0.057	0.97	0.94
Matrix Spike Duplicate % Recovery:	102	114	97	93
Relative % Difference:	0.0	5.7	3.0	16

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Project Manager

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



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RESNA	Client Project ID: F3125.00, Doric Construction	Sampled: Sep 16, 1992
42501 Albrae Street, Suite 100	Sample Descript: Water, MW-3	Received: Sep 18, 1992
Fremont, CA 94538	Lab Number: 209-3069	Extracted: Sep 22, 1992
Attention: Anthony Enerio		Reported: Oct 2, 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)	TTL 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.

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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 TTL	Lead STL	Copper STL	Copper TTL
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

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



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RESNA	Client Project ID: F3125.00, Harbor Bay/Doric Const.	Sampled: Sep 4, 1992
42501 Albrae Street, Suite 100	Sample Descript: Soil, MW3-1	Received: Sep 8, 1992
Fremont, CA 94538		Extracted: Sep 15, 1992
Attention: Anthony Enerio	Lab Number: 209-1555	Reported: Sep 21, 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)	TTL Max. Limit (mg/kg)	Detection Limit (mg/kg)	Analysis Result (mg/kg)
Antimony	15	0.10	--	500	5.0	--
Arsenic	5.0	0.10	--	500	5.0	--
Barium	100	0.10	--	10,000	5.0	--
Beryllium	0.75	0.010	--	75	0.50	--
Cadmium	1.0	0.010	--	100	0.50	--
Chromium (VI)	5.0	0.0050	--	500	0.050	--
Chromium (III)	560	0.010	--	2,500	0.50	--
Cobalt	80	0.050	--	8,000	2.5	--
Copper	25	0.010	0.57	2,500	0.50	50
Lead	5.0	0.10	6.29	1,000	5.0	15
Mercury	0.20	0.00020	--	20	0.010	--
Molybdenum	350	0.050	--	3,500	2.5	--
Nickel	20	0.050	--	2,000	2.5	--
Selenium	1.0	0.10	--	100	5.0	--
Silver	5.0	0.010	--	500	0.50	--
Thallium	7.0	0.10	--	700	5.0	--
Vanadium	24	0.050	--	2,400	2.5	--
Zinc	250	0.010	--	5,000	0.50	--
Asbestos	-	10	--	10,000	100	--
Fluoride	180	0.10	--	18,000	1.0	--

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

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RESNA	Client Project ID: F3125.00, Harbor Bay/Doric Const.	Sampled: Sep 4, 1992
42501 Albrae Street, Suite 100	Sample Descript: Soil, MW3-2	Received: Sep 8, 1992
Fremont, CA 94538		Extracted: Sep 15, 1992
Attention: Anthony Enerio	Lab Number: 209-1556	Reported: Sep 21, 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)	TTL Max. Limit (mg/kg)	Detection Limit (mg/kg)	Analysis Result (mg/kg)
Antimony	15	0.10	--	500	5.0	--
Arsenic	5.0	0.10	--	500	5.0	--
Barium	100	0.10	--	10,000	5.0	--
Beryllium	0.75	0.010	--	75	0.50	--
Cadmium	1.0	0.010	--	100	0.50	--
Chromium (VI)	5.0	0.0050	--	500	0.050	--
Chromium (III)	560	0.010	--	2,500	0.50	--
Cobalt	80	0.050	--	8,000	2.5	--
Copper	25	0.010	0.68	2,500	0.50	19
Lead	5.0	0.10	12	1,000	5.0	290
Mercury	0.20	0.00020	--	20	0.010	--
Molybdenum	350	0.050	--	3,500	2.5	--
Nickel	20	0.050	--	2,000	2.5	--
Selenium	1.0	0.10	--	100	5.0	--
Silver	5.0	0.010	--	500	0.50	--
Thallium	7.0	0.10	--	700	5.0	--
Vanadium	24	0.050	--	2,400	2.5	--
Zinc	250	0.010	--	5,000	0.50	--
Asbestos	-	10	--	10,000	100	--
Fluoride	180	0.10	--	18,000	1.0	--

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

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

Client Project ID: F3125.00, Harbor Bay/Doric Const.
Sample Descript: Soil, MW3-3
Lab Number: 209-1557

Sampled: Sep 4, 1992
Received: Sep 8, 1992
Extracted: Sep 15, 1992
Reported: Sep 21, 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)	TTL Max. Limit (mg/kg)	Detection Limit (mg/kg)	Analysis Result (mg/kg)
Antimony	15	0.10	--	500	5.0	--
Arsenic	5.0	0.10	--	500	5.0	--
Barium	100	0.10	--	10,000	5.0	--
Beryllium	0.75	0.010	--	75	0.50	--
Cadmium	1.0	0.010	--	100	0.50	--
Chromium (VI)	5.0	0.0050	--	500	0.050	--
Chromium (III)	560	0.010	--	2,500	0.50	--
Cobalt	80	0.050	--	8,000	2.5	--
Copper	25	0.010	0.67	2,500	0.50	8.8
Lead	5.0	0.10	N.D.	1,000	5.0	N.D.
Mercury	0.20	0.00020	--	20	0.010	--
Molybdenum	350	0.050	--	3,500	2.5	--
Nickel	20	0.050	--	2,000	2.5	--
Selenium	1.0	0.10	--	100	5.0	--
Silver	5.0	0.010	--	500	0.50	--
Thallium	7.0	0.10	--	700	5.0	--
Vanadium	24	0.050	--	2,400	2.5	--
Zinc	250	0.010	--	5,000	0.50	--
Asbestos	-	10	--	10,000	100	--
Fluoride	180	0.10	--	18,000	1.0	--

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

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

Client Project ID: F3125.00, Harbor Bay/Doric Const.
Sample Descript: Soil, MW38-1, 2
Lab Number: 209-1558

Sampled: Sep 4, 1992
Received: Sep 8, 1992
Extracted: Sep 15, 1992
Reported: Sep 21, 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)	TTL Max. Limit (mg/kg)	Detection Limit (mg/kg)	Analysis Result (mg/kg)
Antimony	15	0.10	--	500	5.0	--
Arsenic	5.0	0.10	--	500	5.0	--
Barium	100	0.10	--	10,000	5.0	--
Beryllium	0.75	0.010	--	75	0.50	--
Cadmium	1.0	0.010	--	100	0.50	--
Chromium (VI)	5.0	0.0050	--	500	0.050	--
Chromium (III)	560	0.010	--	2,500	0.50	--
Cobalt	80	0.050	--	8,000	2.5	--
Copper	25	0.010	0.75	2,500	0.50	22
Lead	5.0	0.10	10	1,000	5.0	120
Mercury	0.20	0.00020	--	20	0.010	--
Molybdenum	350	0.050	--	3,500	2.5	--
Nickel	20	0.050	--	2,000	2.5	--
Selenium	1.0	0.10	--	100	5.0	--
Silver	5.0	0.010	--	500	0.50	--
Thallium	7.0	0.10	--	700	5.0	--
Vanadium	24	0.050	--	2,400	2.5	--
Zinc	250	0.010	--	5,000	0.50	--
Asbestos	-	10	--	10,000	100	--
Fluoride	180	0.10	--	18,000	1.0	--

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

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

Client Project ID: F3125.00, Harbor Bay/Doric Const.
Sample Descript: Soil, MW34-1, 2
Lab Number: 209-1559

Sampled: Sep 4, 1992
Received: Sep 8, 1992
Extracted: Sep 15, 1992
Reported: Sep 21, 1992

INORGANIC PERSISTENT AND BIOACCUMULATIVE TOXIC SUBSTANCES

Soluble Threshold Limit Concentration
Waste Extraction Test

Total Threshold Limit Concentration

Analyte	Soluble Threshold Limit Concentration Waste Extraction Test			Total Threshold Limit Concentration		
	STLC Max. Limit (mg/L)	Detection Limit (mg/L)	Analysis Result (mg/L)	TTL Max. Limit (mg/kg)	Detection Limit (mg/kg)	Analysis Result (mg/kg)
Antimony	15	0.10	--	500	5.0	--
Arsenic	5.0	0.10	--	500	5.0	--
Barium	100	0.10	--	10,000	5.0	--
Beryllium	0.75	0.010	--	75	0.50	--
Cadmium	1.0	0.010	--	100	0.50	--
Chromium (VI)	5.0	0.0050	--	500	0.050	--
Chromium (III)	560	0.010	--	2,500	0.50	--
Cobalt	80	0.050	--	8,000	2.5	--
Copper	25	0.010	18	2,500	0.50	120
Lead	5.0	0.10	2.4	1,000	5.0	70
Mercury	0.20	0.00020	--	20	0.010	--
Molybdenum	350	0.050	--	3,500	2.5	--
Nickel	20	0.050	--	2,000	2.5	--
Selenium	1.0	0.10	--	100	5.0	--
Silver	5.0	0.010	--	500	0.50	--
Thallium	7.0	0.10	--	700	5.0	--
Vanadium	24	0.050	--	2,400	2.5	--
Zinc	250	0.010	--	5,000	0.50	--
Asbestos	-	10	--	10,000	100	--
Fluoride	180	0.10	--	18,000	1.0	--

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

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

Client Project ID: F3125.00, Harbor Bay/Doric Const.
Sample Descript: Soil, MW22-1, 2
Lab Number: 209-1560

Sampled: Sep 4, 1992
Received: Sep 8, 1992
Extracted: Sep 15, 1992
Reported: Sep 21, 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)	TTL Max. Limit (mg/kg)	Detection Limit (mg/kg)	Analysis Result (mg/kg)
Antimony	15	0.10	--	500	5.0	--
Arsenic	5.0	0.10	--	500	5.0	--
Barium	100	0.10	--	10,000	5.0	--
Beryllium	0.75	0.010	--	75	0.50	--
Cadmium	1.0	0.010	--	100	0.50	--
Chromium (VI)	5.0	0.0050	--	500	0.050	--
Chromium (III)	560	0.010	--	2,500	0.50	--
Cobalt	80	0.050	--	8,000	2.5	--
Copper	25	0.010	0.26	2,500	0.50	20
Lead	5.0	0.10	37	1,000	5.0	170
Mercury	0.20	0.00020	--	20	0.010	--
Molybdenum	350	0.050	--	3,500	2.5	--
Nickel	20	0.050	--	2,000	2.5	--
Selenium	1.0	0.10	--	100	5.0	--
Silver	5.0	0.010	--	500	0.50	--
Thallium	7.0	0.10	--	700	5.0	--
Vanadium	24	0.050	--	2,400	2.5	--
Zinc	250	0.010	--	5,000	0.50	--
Asbestos	-	10	--	10,000	100	--
Fluoride	180	0.10	--	18,000	1.0	--

TTL results are reported as mg/kg of wet weight. 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



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

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

Client Project ID: F3125.00, Harbor Bay/Doric Const.
Sample Descript: Soil, MW24-1, 2
Lab Number: 209-1561

Sampled: Sep 4, 1992
Received: Sep 8, 1992
Extracted: Sep 15, 1992
Reported: Sep 21, 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)	TTLIC Max. Limit (mg/kg)	Detection Limit (mg/kg)	Analysis Result (mg/kg)
Antimony	15	0.10	--	500	5.0	--
Arsenic	5.0	0.10	--	500	5.0	--
Barium	100	0.10	--	10,000	5.0	--
Beryllium	0.75	0.010	--	75	0.50	--
Cadmium	1.0	0.010	--	100	0.50	--
Chromium (VI)	5.0	0.0050	--	500	0.050	--
Chromium (III)	560	0.010	--	2,500	0.50	--
Cobalt	80	0.050	--	8,000	2.5	--
Copper	25	0.010	0.078	2,500	0.50	18
Lead	5.0	0.10	19	1,500	5.0	210
Mercury	0.20	0.00020	--	20	0.010	--
Molybdenum	350	0.050	--	3,500	2.5	--
Nickel	20	0.050	--	2,000	2.5	--
Selenium	1.0	0.10	--	100	5.0	--
Silver	5.0	0.010	--	500	0.50	--
Thallium	7.0	0.10	--	700	5.0	--
Vanadium	24	0.050	--	2,400	2.5	--
Zinc	250	0.010	--	5,000	0.50	--
Asbestos	-	10	--	10,000	100	--
Fluoride	180	0.10	--	18,000	1.0	--

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

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Fremont, CA 94538
Attention: Anthony Enerio

Client Project ID: F3125.00, Harbor Bay/Doric Const.
Sample Descript: Soil, MW48-1, 2
Lab Number: 209-1562

Sampled: Sep 4, 1992
Received: Sep 8, 1992
Extracted: Sep 15, 1992
Reported: Sep 21, 1992

INORGANIC PERSISTENT AND BIOACCUMULATIVE TOXIC SUBSTANCES

Soluble Threshold Limit Concentration
Waste Extraction Test

Total Threshold Limit Concentration

Analyte	STLC	Detection	Analysis	TTL	Detection	Analysis
	Max. Limit (mg/L)	Limit (mg/L)	Result (mg/L)	Max. Limit (mg/kg)	Limit (mg/kg)	Result (mg/kg)
Antimony	15	0.10	--	500	5.0	--
Arsenic	5.0	0.10	--	500	5.0	--
Barium	100	0.10	--	10,000	5.0	--
Beryllium	0.75	0.010	--	75	0.50	--
Cadmium	1.0	0.010	--	100	0.50	--
Chromium (VI)	5.0	0.0050	--	500	0.050	--
Chromium (III)	560	0.010	--	2,500	0.50	--
Cobalt	80	0.050	--	8,000	2.5	--
Copper	25	0.010	0.35	2,500	0.50	8.1
Lead	5.0	0.10	0.33	1,000	5.0	6.9
Mercury	0.20	0.00020	--	20	0.010	--
Molybdenum	350	0.050	--	3,500	2.5	--
Nickel	20	0.050	--	2,000	2.5	--
Selenium	1.0	0.10	--	100	5.0	--
Silver	5.0	0.010	--	500	0.50	--
Thallium	7.0	0.10	--	700	5.0	--
Vanadium	24	0.050	--	2,400	2.5	--
Zinc	250	0.010	--	5,000	0.50	--
Asbestos	-	10	--	10,000	100	--
Fluoride	180	0.10	--	18,000	1.0	--

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

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

Client Project ID: F3125.00, Harbor Bay/Doric Const.
Sample Descript: Soil, MW61-1, 2
Lab Number: 209-1563

Sampled: Sep 4, 1992
Received: Sep 8, 1992
Extracted: Sep 15, 1992
Reported: Sep 21, 1992

INORGANIC PERSISTENT AND BIOACCUMULATIVE TOXIC SUBSTANCES

Soluble Threshold Limit Concentration
Waste Extraction Test

Total Threshold Limit Concentration

Analyte	STLC	Detection	Analysis	TTL	Detection	Analysis
	Max. Limit (mg/L)	Limit (mg/L)	Result (mg/L)	Max. Limit (mg/kg)	Limit (mg/kg)	Result (mg/kg)
Antimony	15	0.10	--	500	5.0	--
Arsenic	5.0	0.10	--	500	5.0	--
Barium	100	0.10	--	10,000	5.0	--
Beryllium	0.75	0.010	--	75	0.50	--
Cadmium	1.0	0.010	--	100	0.50	--
Chromium (VI)	5.0	0.0050	--	500	0.050	--
Chromium (III)	560	0.010	--	2,500	0.50	--
Cobalt	80	0.050	--	8,000	2.5	--
Copper	25	0.010	1.5	2,500	0.50	23
Lead	5.0	0.10	13	1,000	5.0	230
Mercury	0.20	0.00020	--	20	0.010	--
Molybdenum	350	0.050	--	3,500	2.5	--
Nickel	20	0.050	--	2,000	2.5	--
Selenium	1.0	0.10	--	100	5.0	--
Silver	5.0	0.010	--	500	0.50	--
Thallium	7.0	0.10	--	700	5.0	--
Vanadium	24	0.050	--	2,400	2.5	--
Zinc	250	0.010	--	5,000	0.50	--
Asbestos	-	10	--	10,000	100	--
Fluoride	180	0.10	--	18,000	1.0	--

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

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Attention: Anthony Enerio

Client Project ID: F3125.00, Harbor Bay/Doric Const.
Sample Descript: Soil, MW54-1, 2
Lab Number: 209-1564

Sampled: Sep 4, 1992
Received: Sep 8, 1992
Extracted: Sep 15, 1992
Reported: Sep 21, 1992

INORGANIC PERSISTENT AND BIOACCUMULATIVE TOXIC SUBSTANCES

Soluble Threshold Limit Concentration
Waste Extraction Test

Total Threshold Limit Concentration

Analyte	STLC	Detection	Analysis	TTL	Detection	Analysis
	Max. Limit (mg/L)	Limit (mg/L)	Result (mg/L)	Max. Limit (mg/kg)	Limit (mg/kg)	Result (mg/kg)
Antimony	15	0.10	--	500	5.0	--
Arsenic	5.0	0.10	--	500	5.0	--
Barium	100	0.10	--	10,000	5.0	--
Beryllium	0.75	0.010	--	75	0.50	--
Cadmium	1.0	0.010	--	100	0.50	--
Chromium (VI)	5.0	0.0050	--	500	0.050	--
Chromium (III)	560	0.010	--	2,500	0.50	--
Cobalt	80	0.050	--	8,000	2.5	--
Copper	25	0.010	0.54	2,500	0.50	16
Lead	5.0	0.10	0.88	1,000	5.0	32
Mercury	0.20	0.00020	--	20	0.010	--
Molybdenum	350	0.050	--	3,500	2.5	--
Nickel	20	0.050	--	2,000	2.5	--
Selenium	1.0	0.10	--	100	5.0	--
Silver	5.0	0.010	--	500	0.50	--
Thallium	7.0	0.10	--	700	5.0	--
Vanadium	24	0.050	--	2,400	2.5	--
Zinc	250	0.010	--	5,000	0.50	--
Asbestos	-	10	--	10,000	100	--
Fluoride	180	0.10	--	18,000	1.0	--

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

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

Client Project ID: F3125.00, Harbor Bay/Doric Const.
Sample Descript: Soil, MW43-1, 2
Lab Number: 209-1565

Sampled: Sep 4, 1992
Received: Sep 8, 1992
Extracted: Sep 15, 1992
Reported: Sep 21, 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)	TTLT Max. Limit (mg/kg)	Detection Limit (mg/kg)	Analysis Result (mg/kg)
Antimony	15	0.10	--	500	5.0	--
Arsenic	5.0	0.10	--	500	5.0	--
Barium	100	0.10	--	10,000	5.0	--
Beryllium	0.75	0.010	--	75	0.50	--
Cadmium	1.0	0.010	--	100	0.50	--
Chromium (VI)	5.0	0.0050	--	500	0.050	--
Chromium (III)	560	0.010	--	2,500	0.50	--
Cobalt	80	0.050	--	8,000	2.5	--
Copper	25	0.010	1.1	2,500	0.50	34
Lead	5.0	0.10	7.9	1,000	5.0	340
Mercury	0.20	0.00020	--	20	0.010	--
Molybdenum	350	0.050	--	3,500	2.5	--
Nickel	20	0.050	--	2,000	2.5	--
Selenium	1.0	0.10	--	100	5.0	--
Silver	5.0	0.010	--	500	0.50	--
Thallium	7.0	0.10	--	700	5.0	--
Vanadium	24	0.050	--	2,400	2.5	--
Zinc	250	0.010	--	5,000	0.50	--
Asbestos	-	10	--	10,000	100	--
Fluoride	180	0.10	--	18,000	1.0	--

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

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

Client Project ID: F3125.00, Harbor Bay/Doric Const.
Sample Descript: Soil, MW28-1, 2
Lab Number: 209-1566

Sampled: Sep 4, 1992
Received: Sep 8, 1992
Extracted: Sep 15, 1992
Reported: Sep 21, 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)	TTLIC Max. Limit (mg/kg)	Detection Limit (mg/kg)	Analysis Result (mg/kg)
Antimony	15	0.10	--	500	5.0	--
Arsenic	5.0	0.10	--	500	5.0	--
Barium	100	0.10	--	10,000	5.0	--
Beryllium	0.75	0.010	--	75	0.50	--
Cadmium	1.0	0.010	--	100	0.50	--
Chromium (VI)	5.0	0.0050	--	500	0.050	--
Chromium (III)	560	0.010	--	2,500	0.50	--
Cobalt	80	0.050	--	8,000	2.5	--
Copper	25	0.010	0.05	2,500	0.50	19
Lead	5.0	0.10	210	1,000	5.0	40,000
Mercury	0.20	0.00020	--	20	0.010	--
Molybdenum	350	0.050	--	3,500	2.5	--
Nickel	20	0.050	--	2,000	2.5	--
Selenium	1.0	0.10	--	100	5.0	--
Silver	5.0	0.010	--	500	0.50	--
Thallium	7.0	0.10	--	700	5.0	--
Vanadium	24	0.050	--	2,400	2.5	--
Zinc	250	0.010	--	5,000	0.50	--
Asbestos	-	10	--	10,000	100	--
Fluoride	180	0.10	--	18,000	1.0	--

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

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Project Manager



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RESNA - Exceltech	Client Project ID: F3125.00, Harbor Bay/Doric Const.	Sampled: Sep 4, 1992
42501 Albrae Street, Suite 100	Sample Descript: Soil, MW27-1, 2	Received: Sep 8, 1992
Fremont, CA 94538		Extracted: Sep 15, 1992
Attention: Anthony Enerio	Lab Number: 209-1567	Reported: Sep 21, 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)	TTL Max. Limit (mg/kg)	Detection Limit (mg/kg)	Analysis Result (mg/kg)
Antimony	15	0.10	--	500	5.0	--
Arsenic	5.0	0.10	--	500	5.0	--
Barium	100	0.10	--	10,000	5.0	--
Beryllium	0.75	0.010	--	75	0.50	--
Cadmium	1.0	0.010	--	100	0.50	--
Chromium (VI)	5.0	0.0050	--	500	0.050	--
Chromium (III)	560	0.010	--	2,500	0.50	--
Cobalt	80	0.050	--	8,000	2.5	--
Copper	25	0.010	0.50	2,500	0.50	45
Lead	5.0	0.10	0.3	1,000	5.0	150
Mercury	0.20	0.00020	--	20	0.010	--
Molybdenum	350	0.050	--	3,500	2.5	--
Nickel	20	0.050	--	2,000	2.5	--
Selenium	1.0	0.10	--	100	5.0	--
Silver	5.0	0.010	--	500	0.50	--
Thallium	7.0	0.10	--	700	5.0	--
Vanadium	24	0.050	--	2,400	2.5	--
Zinc	250	0.010	--	5,000	0.50	--
Asbestos	-	10	--	10,000	100	--
Fluoride	180	0.10	--	18,000	1.0	--

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

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

Client Project ID: F3125.00, Harbor Bay/Doric Const.

QC Sample Group: 2091555-67

Reported: Sep 21, 1992

QUALITY CONTROL DATA REPORT

ANALYTE	Copper	Lead	Lead	Copper	Lead	Lead STLC	Copper STLC
Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010	EPA 6010	EPA 200.7	EPA 200.7
Analyst:	C. Medefesser	C. Medefesser	C. Medefesser	C. Medefesser	R. Sharma	C. Medefesser	C. Medefesser
Reporting Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/L	mg/L
Date Analyzed:	Sep 17, 1992	Sep 17, 1992	Sep 18, 1992	Sep 18, 1992	Sep 21, 1992	Sep 18, 1992	Sep 18, 1992
QC Sample #:	209-1555	209-1555	209-2244	209-2244	209-1567	209-1772	209-1772
Sample Conc.:	50	15	7.7	11	150	N.D.	N.D.
Spike Conc. Added:	100	100	100	100	50	1.0	1.0
Conc. Matrix Spike:	150	110	96	100	190	1.0	1.0
Matrix Spike % Recovery:	100	95	88	89	80	100	100
Conc. Matrix Spike Dup.:	150	110	110	110	190	1.0	1.0
Matrix Spike Duplicate % Recovery:	100	95	102	99	80	100	100
Relative % Difference:	0.0	0.0	14	9.5	0.0	0.0	0.0

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Maria Lee
Project Manager

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

PROJECT NO.		PROJECT NAME/SITE						ANALYSIS REQUESTED											P.O. #:	
F3125-00		Harbor bay / Dore Const.						BTEX (802/8020) TPH9 (8015) TPH4 (8015) TOG 418.1/5520 601/8010 624/8240 625/8270 STLC TTLC <i>u/p</i>												
SAMPLERS		(SIGN) / (PRINT)																	NO. CONTAINERS	SAMPLE TYPE
SAMPLE IDENTIFICATION		DATE	TIME	COMP	GRAB	PRES. USED	ICED													
MW-3-1		9/4/92			X			1	S	3091585										
↓ -3-2										1556										
↓ -3-3										1557										
38-1, 2										1558										
34-1, 2										1559										
22-1, 2										1560										
24-1, 2										1561										
48-1, 2										1562										
61-1, 2										1563										
54-1, 2										1564										
43-1, 2										1565										
28-1, 2										1566										
27-1, 2										↓ 1567										

RELINQUISHED BY: <i>Anthony Green</i>	DATE: 9/8/92	TIME: 2:52	RECEIVED BY: <i>Tom Carpenter</i>	LABORATORY: <i>L. Green</i>	PLEASE SEND RESULTS TO: RESNA ENVIRONMENTAL LABORATORY 42501 Albrae St. Fremont, CA 94538 Tel # (510) 651-1906 Fax # (510) 651-8754
RELINQUISHED BY: <i>Tom Carpenter</i>	DATE: 9/8/92	TIME: 4:30	RECEIVED BY:	REQUESTED TURNAROUND TIME: <i>water by 9/18</i>	
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:	RECEIPT CONDITION: <i>good / cool</i>	
RELINQUISHED BY:	DATE: 9/18/92	TIME: 4:30pm	RECEIVED BY LABORATORY: <i>Mu</i>	PROJECT MANAGER: <i>A. Green / G. Pischke</i>	



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RESNA	Client Project ID: F3125.00, Doric Construction	Sampled: Sep 8, 1992
42501 Albrae Street, Suite 100	Sample Descript: Soil, 19-1, 2	Received: Sep 9, 1992
Fremont, CA 94538	Lab Number: 209-1612	Extracted: Sep 15, 1992
Attention: Anthony Enerio		Reported: Sep 22, 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)	TTLCL Max. Limit (mg/kg)	Detection Limit (mg/kg)	Analysis Result (mg/kg)
Antimony	15	0.10	--	500	5.0	--
Arsenic	5.0	0.10	--	500	5.0	--
Barium	100	0.10	--	10,000	5.0	--
Beryllium	0.75	0.010	--	75	0.50	--
Cadmium	1.0	0.010	--	100	0.50	--
Chromium (VI)	5.0	0.0050	--	500	0.050	--
Chromium (III)	560	0.010	--	2,500	0.50	--
Cobalt	80	0.050	--	8,000	2.5	--
Copper	25	0.010	0.57	2,500	0.50	35
Lead	5.0	0.10	1.8	1,000	5.0	82
Mercury	0.20	0.00020	--	20	0.010	--
Molybdenum	350	0.050	--	3,500	2.5	--
Nickel	20	0.050	--	2,000	2.5	--
Selenium	1.0	0.10	--	100	5.0	--
Silver	5.0	0.010	--	500	0.50	--
Thallium	7.0	0.10	--	700	5.0	--
Vanadium	24	0.050	--	2,400	2.5	--
Zinc	250	0.010	--	5,000	0.50	--
Asbestos	-	10	--	10,000	100	--
Fluoride	180	0.10	--	18,000	1.0	--

TTLCL results are reported as mg/kg of wet weight. 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 8, 1992
42501 Albrae Street, Suite 100	Sample Descript: Soil, 18-1, 2	Received: Sep 9, 1992
Fremont, CA 94538	Lab Number: 209-1613	Extracted: Sep 15, 1992
Attention: Anthony Enerio		Reported: Sep 22, 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)	TTL Max. Limit (mg/kg)	Detection Limit (mg/kg)	Analysis Result (mg/kg)
Antimony	15	0.10	--	500	5.0	--
Arsenic	5.0	0.10	--	500	5.0	--
Barium	100	0.10	--	10,000	5.0	--
Beryllium	0.75	0.010	--	75	0.50	--
Cadmium	1.0	0.010	--	100	0.50	--
Chromium (VI)	5.0	0.0050	--	500	0.050	--
Chromium (III)	560	0.010	--	2,500	0.50	--
Cobalt	80	0.050	--	8,000	2.5	--
Copper	25	0.010	0.32	2,500	0.50	9.8
Lead	5.0	0.10	1.7	1,000	5.0	23
Mercury	0.20	0.00020	--	20	0.010	--
Molybdenum	350	0.050	--	3,500	2.5	--
Nickel	20	0.050	--	2,000	2.5	--
Selenium	1.0	0.10	--	100	5.0	--
Silver	5.0	0.010	--	500	0.50	--
Thallium	7.0	0.10	--	700	5.0	--
Vanadium	24	0.050	--	2,400	2.5	--
Zinc	250	0.010	--	5,000	0.50	--
Asbestos	-	10	--	10,000	100	--
Fluoride	180	0.10	--	18,000	1.0	--

TTL results are reported as mg/kg of wet weight. 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 8, 1992
42501 Albrae Street, Suite 100	Sample Descript: Soil, 09-1, 2	Received: Sep 9, 1992
Fremont, CA 94538	Lab Number: 209-1614	Extracted: Sep 15, 1992
Attention: Anthony Enerio		Reported: Sep 22, 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)	TTL Max. Limit (mg/kg)	Detection Limit (mg/kg)	Analysis Result (mg/kg)
Antimony	15	0.10	--	500	5.0	--
Arsenic	5.0	0.10	--	500	5.0	--
Barium	100	0.10	--	10,000	5.0	--
Beryllium	0.75	0.010	--	75	0.50	--
Cadmium	1.0	0.010	--	100	0.50	--
Chromium (VI)	5.0	0.0050	--	500	0.050	--
Chromium (III)	560	0.010	--	2,500	0.50	--
Cobalt	80	0.050	--	8,000	2.5	--
Copper	25	0.010	1.9	2,500	0.50	90
Lead	5.0	0.10	2.7	1,000	5.0	480
Mercury	0.20	0.00020	--	20	0.010	--
Molybdenum	350	0.050	--	3,500	2.5	--
Nickel	20	0.050	--	2,000	2.5	--
Selenium	1.0	0.10	--	100	5.0	--
Silver	5.0	0.010	--	500	0.50	--
Thallium	7.0	0.10	--	700	5.0	--
Vanadium	24	0.050	--	2,400	2.5	--
Zinc	250	0.010	--	5,000	0.50	--
Asbestos	-	10	--	10,000	100	--
Fluoride	180	0.10	--	18,000	1.0	--

TTL results are reported as mg/kg of wet weight. 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
42501 Albrae Street, Suite 100
Fremont, CA 94538
Attention: Anthony Enerio

Client Project ID: F3125.00, Doric Construction
Sample Descript: Soil, 07-1, 2
Lab Number: 209-1615

Sampled: Sep 8, 1992
Received: Sep 9, 1992
Extracted: Sep 15, 1992
Reported: Sep 22, 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)	TTL Max. Limit (mg/kg)	Detection Limit (mg/kg)	Analysis Result (mg/kg)
Antimony	15	0.10	--	500	5.0	--
Arsenic	5.0	0.10	--	500	5.0	--
Barium	100	0.10	--	10,000	5.0	--
Beryllium	0.75	0.010	--	75	0.50	--
Cadmium	1.0	0.010	--	100	0.50	--
Chromium (VI)	5.0	0.0050	--	500	0.050	--
Chromium (III)	560	0.010	--	2,500	0.50	--
Cobalt	80	0.050	--	8,000	2.5	--
Copper	25	0.010	1.3	2,500	0.50	76
Lead	5.0	0.10	1.2	1,000	5.0	42
Mercury	0.20	0.00020	--	20	0.010	--
Molybdenum	350	0.050	--	3,500	2.5	--
Nickel	20	0.050	--	2,000	2.5	--
Selenium	1.0	0.10	--	100	5.0	--
Silver	5.0	0.010	--	500	0.50	--
Thallium	7.0	0.10	--	700	5.0	--
Vanadium	24	0.050	--	2,400	2.5	--
Zinc	250	0.010	--	5,000	0.50	--
Asbestos	-	10	--	10,000	100	--
Fluoride	180	0.10	--	18,000	1.0	--

TTL results are reported as mg/kg of wet weight. 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
42501 Albrae Street, Suite 100
Fremont, CA 94538
Attention: Anthony Enerio

Client Project ID: F3125.00, Doric Construction
Sample Descript: Soil, 03-1, 2
Lab Number: 209-1616

Sampled: Sep 8, 1992
Received: Sep 9, 1992
Extracted: Sep 15, 1992
Reported: Sep 22, 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)	TTL Max. Limit (mg/kg)	Detection Limit (mg/kg)	Analysis Result (mg/kg)
Antimony	15	0.10	--	500	5.0	--
Arsenic	5.0	0.10	--	500	5.0	--
Barium	100	0.10	--	10,000	5.0	--
Beryllium	0.75	0.010	--	75	0.50	--
Cadmium	1.0	0.010	--	100	0.50	--
Chromium (VI)	5.0	0.0050	--	500	0.050	--
Chromium (III)	560	0.010	--	2,500	0.50	--
Cobalt	80	0.050	--	8,000	2.5	--
Copper	25	0.010	0.37	2,500	0.50	24
Lead	5.0	0.10	1.2	1,000	5.0	39
Mercury	0.20	0.00020	--	20	0.010	--
Molybdenum	350	0.050	--	3,500	2.5	--
Nickel	20	0.050	--	2,000	2.5	--
Selenium	1.0	0.10	--	100	5.0	--
Silver	5.0	0.010	--	500	0.50	--
Thallium	7.0	0.10	--	700	5.0	--
Vanadium	24	0.050	--	2,400	2.5	--
Zinc	250	0.010	--	5,000	0.50	--
Asbestos	-	10	--	10,000	100	--
Fluoride	180	0.10	--	18,000	1.0	--

TTL results are reported as mg/kg of wet weight. 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



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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: 2091612-6

Reported: Sep 22, 1992

QUALITY CONTROL DATA REPORT

ANALYTE	Copper	Lead	Copper STLC	Lead STLC
	Method:	EPA 6010	EPA 6010	EPA 6010
Analyst:	C. Medefeser	C. Medefeser	M. Mistry	M. Mistry
Reporting Units:	mg/kg	mg/kg	mg/L	mg/L
Date Analyzed:	Sep 17, 1992	Sep 17, 1992	Sep 21, 1992	Sep 21, 1992
QC Sample #:	209-1555	209-1555	209-1625	209-1625
Sample Conc.:	50	15	0.30	0.13
Spike Conc. Added:	100	100	10	10
Conc. Matrix Spike:	150	110	11	9.3
Matrix Spike % Recovery:	100	95	107	92
Conc. Matrix Spike Dup.:	150	110	11	9.4
Matrix Spike Duplicate % Recovery:	100	95	107	93
Relative % Difference:	0.0	0.0	0.0	1.1

SEQUOIA ANALYTICAL

Maria Lee
Maria Lee
Project Manager

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

PROJECT NO. F3125.00		PROJECT NAME/SITE Doric Construction						ANALYSIS REQUESTED										P.O. #:																																										
SAMPLERS Sheryl Fontaine (SIGN)		(PRINT) Sheryl Fontaine						NO CONTAINERS	SAMPLE TYPE	BTEX (602/8020)	TPHg (8015)	TPHg (8015)	TOG #18-1/5520	601/8010	624/8240	625/8270	JTLc P/C	JTLc P/C	REMARKS																																									
SAMPLE IDENTIFICATION		DATE	TIME	COMP	GRAB	PRES. USED	ICED			2	S																																																	
19-1,2		9/8/92	11:45		X		X																																																					
18-1,2		 	12:15		 		 																																																					
09-1,2		 	12:45		 		 																																																					
07-1,2		 	1:30		 		 																																																					
03-1,2		 	2:00		 		 																																																					
RELINQUISHED BY:		DATE	TIME	RECEIVED BY:						LABORATORY:					PLEASE SEND RESULTS TO:																																													
Sheryl Fontaine		9/8/92	3:30							RESNA					Sheryl F.																																													
RELINQUISHED BY:		DATE	TIME	RECEIVED BY:						REQUESTED TURNAROUND TIME:					PROJECT MANAGER:																																													
										Normal																																																		
RELINQUISHED BY:		DATE	TIME	RECEIVED BY:						RECEIPT CONDITION:					Cathy Pischke																																													
								Good, cold.																																																				
RELINQUISHED BY:		DATE	TIME	RECEIVED BY LABORATORY:																																																								
		9-8-92	3:30	3:30 P.M.																																																								

PROJECT NO.		PROJECT NAME/SITE						ANALYSIS REQUESTED										P.O. #:		
F3125.00		Dome Const.						<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX (602/8220)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPHg (8015)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPHd (8015)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TOG 418 1/5520</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">601/8010</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">624/8240</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">625/8270</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">STLC + TRC (4, 13)</div> </div>												
SAMPLERS (SIGN) / (PRINT)							NO. CONTAINERS											SAMPLE TYPE	REMARKS	
SAMPLE IDENTIFICATION		DATE	TIME	COMP	GRAB	PRES. USED	ICED													
19-1, 2		2091612	9/8/92		✓			2	S											
18-1, 2		2091613	↓		↓			↓	↓											
09-1, 2		2091614	↓		↓			↓	↓											
07-1, 2		2091615	↓		↓			↓	↓											
03-1, 2		2091616	↓		↓			↓	↓											
RELINQUISHED BY:		DATE	TIME	RECEIVED BY:		LABORATORY:					PLEASE SEND RESULTS TO:									
<i>Anthony Gueno</i>		9/7/92	200	<i>Rebekah H. Hays</i>		<i>Georgia</i>														
RELINQUISHED BY:		DATE	TIME	RECEIVED BY:		REQUESTED TURNAROUND TIME:					PROJECT MANAGER:									
<i>Rebekah H. Hays</i>		9/9/92	15:45			<i>with by 9/13</i>														
RELINQUISHED BY:		DATE	TIME	RECEIVED BY:		RECEIPT CONDITION:					<i>A. Gueno / Pischke</i>									
		9/9/92	1545	<i>Jim</i>		<i>good local</i>														

ANALYSIS REPORT

Attention: Gary Pischke
RESNA
42501 Albrae St
Fremont, CA 94538
Project: 19513-L, 30125-31
Sample ID: MW-1
Lab ID: W1209017

Date Sampled: 09-01-92
Date Received: 09-01-92
Date Analyzed: 09-15-92
Matrix: Water

EPA METHOD 8270

<u>COMPOUND NAME</u>	<u>ug/L</u>	<u>MDL</u>	<u>COMPOUND NAME</u>	<u>ug/L</u>	<u>MDL</u>
Acenaphthene	ND	2.0	1,3-Dichlorobenzene	ND	2.0
Acenaphthylene	ND	2.0	1,4-Dichlorobenzene	ND	2.0
Anthracene	ND	2.0	1,2-Dichlorobenzene	ND	2.0
Benzdine	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.

M. Tague

Laboratory Representative

September 16, 1992

Date Reported

RESNA ENVIRONMENTAL LABORATORY IS CERTIFIED BY THE STATE OF CALIFORNIA
DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY

(Certification No. E1211)

42501 Albrae Street • Fremont, CA 94538 • Phone: (510) 623-0775 • (800) 247-5223 • FAX: (510) 651-8754

ANALYSIS REPORT

Attention: Gary Pischke
RESNA
42501 Albrae St.
Fremont, CA 94538

Project: 19513-L, 30125-31
Sample ID: MW-1
Lab ID: W1209017

Date Sampled: 09-01-92
Date Received: 09-01-92
Date Analyzed: 09-15-92
Matrix: Water

EPA METHOD 8270

<u>COMPOUND NAME</u>	<u>ug/L</u>	<u>MDL</u>
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.

W. Tagu
 Laboratory Representative

September 16, 1992
 Date Reported

RESNA ENVIRONMENTAL LABORATORY IS CERTIFIED BY THE STATE OF CALIFORNIA
 DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
 (Certification No. E1211)

ANALYSIS REPORT

Attention: Gary Pischke
 RESNA
 42501 Albrae St
 Fremont, CA 94538
 Project: 19513-L, 30125-31
 Sample ID: MW-1
 Lab ID: W1209017

Date Sampled: 09-01-92
 Date Received: 09-01-92
 Date Analyzed: 09-14-92
 Matrix: Water

1020lab.frm

EPA METHOD 8270 QA/QC SHEET

UNITS ug/L

<u>COMPOUND NAME</u>	<u>MS</u>	<u>MSD</u>	<u>RPD</u>	<u>Limits</u>
4CHLORO-3-METHYLPHENOL	63%	59%	4.9%	22%-147%
2CHLOROPHENOL	54%	55%	1.8%	23%-134%
PENTACHLOROPHENOL	63%	58%	8.2%	14%-176%
PHENOL	29%	32%	9.8%	5%-112%
ACENAPHTHENE	64%	64%	0%	47%-145%
1,4-DICHLOROBENZENE	53%	58%	9.0%	20%-124%
2,4-DINITROTOLUENE	50%	48%	4.0%	39%-139%
N-NITROSO-DI-n-PROPYLAMINE	63%	68%	7.6%	D-230%
PYRENE	67%	72%	7.2%	54%-120%
1,2,4-TRICHLOROBENZENE	57%	50%	13.0%	44%-142%

ppb = parts per billion = $\mu\text{g/L}$ = micrograms per Liter

RPD = Relative Percent Difference

D = Detectable

RPD Limits < 25


 Laboratory Representative

September 16, 1992

Date Reported

ANALYSIS REPORT

Attention: Gary Pischke
RESNA
42501 Albrae St.
Fremont, CA 94538
Project: 19513-L, 30125-31
Harbor Bay

Date Sampled: 09-01-92
Date Received: 09-01-92
TDS Analyzed: 09-08-92

1020lab.frm

TDS(mg/L)

SAMPLE
Laboratory Identification

MW-12-ASD
W1209017

400

ANALYTICAL PROCEDURES

TDS is measured according to Standard Method 160.2

MM Tague
Laboratory Representative

September 16, 1992
Date Reported

PROJECT NO.		PROJECT NAME/SITE							ANALYSIS REQUESTED										P.O. #:								
30125-31		Harbor Bay/Doir Constuction							BTEX (602/8020) TPH ₈ (8015) TPH ₆ (8015) TOG 418.1/5520 601/8010 62-4/8240 62-5/8270 TTLC/STLC G.P.B																		
SAMPLERS (SIGN)							SAMPLERS (PRINT)														NO. CONTAINERS						
SAMPLE IDENTIFICATION		DATE	TIME	COMP	GRAB	PRES. USED	ICED	NO. CONTAINERS	SAMPLE TYPE	BTEX (602/8020)	TPH ₈ (8015)	TPH ₆ (8015)	TOG 418.1/5520	601/8010	62-4/8240	62-5/8270	TTLC/STLC G.P.B	REMARKS									
MW-1		9/1/92						2	W								X	3090721									
RELINQUISHED BY: <i>[Signature]</i>		DATE: 9/7/92	TIME: 1:55	RECEIVED BY: <i>[Signature]</i>				LABORATORY: <i>[Signature]</i>										PLEASE SEND RESULTS TO:									
RELINQUISHED BY: <i>[Signature]</i>		DATE: 9/6/92	TIME: 2:22	RECEIVED BY:				REQUESTED TURNAROUND TIME: <i>[Signature]</i>										RESNA ENVIRONMENTAL LABORATORY 42501 Albrae St Fremont, CA 94538 Tel # (510) 651-1906 Fax # (510) 651-8754									
RELINQUISHED BY:		DATE:	TIME:	RECEIVED BY:				RECEIVED BY LABORATORY: <i>[Signature]</i>												PROJECT MANAGER: <i>[Signature]</i> / G. Piske							
RELINQUISHED BY:		DATE:	TIME:	RECEIVED BY:				RECEIVED BY LABORATORY:										PROJECT MANAGER:									
RELINQUISHED BY:		DATE:	TIME:	RECEIVED BY:				RECEIVED BY LABORATORY:										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

TDS(mg/L)

SAMPLE
Laboratory Identification

MW-1
W1209458

2200

MW-2
W1209459

4800

MW-3
W1209460

3000

ANALYTICAL PROCEDURES

TDS is measured according to Standard Method 160.2

M. Tague
Laboratory Representative

September 30, 1992
Date Reported

RESNA ENVIRONMENTAL LABORATORY IS CERTIFIED BY THE STATE OF CALIFORNIA
DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY

(Certification No. 1211)

42501 Albrae Street • Fremont, CA 94538 • Phone: (510) 623-0775 • (800) 247-5223 • FAX: (510) 651-8754

ANALYSIS REPORT

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

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

Project: 19513-L, F3125.00
Sample ID: MW-1
Lab ID: W1209458

EPA METHOD 8270

<u>COMPOUND NAME</u>	<u>ug/L</u>	<u>MDL</u>	<u>COMPOUND NAME</u>	<u>ug/L</u>	<u>MDL</u>
Acenaphthene	ND	2.0	1,3-Dichlorobenzene	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.

MT Lopez

Laboratory Representative

September 30, 1992
Date Reported

ANALYSIS REPORT

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

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

Project: 19513-L, F3125.00
Sample ID: MW-1
Lab ID: W1209458

EPA METHOD 8270

<u>COMPOUND NAME</u>	<u>ug/L</u>	<u>MDL</u>
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.

M. Taguer

Laboratory Representative

September 30, 1992
Date Reported

RESNA ENVIRONMENTAL LABORATORY IS CERTIFIED BY THE STATE OF CALIFORNIA
 DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
 (Certification No. E1211)

42501 Albrae Street • Fremont, CA 94538 • Phone: (510) 623-0775 • (800) 247-5223 • FAX: (510) 651-8754

ANALYSIS REPORT

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

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

Project: 19513-L, F3125.00
Sample ID: MW-2
Lab ID: W1209459

EPA METHOD 8270

<u>COMPOUND NAME</u>	<u>ug/L</u>	<u>MDL</u>	<u>COMPOUND NAME</u>	<u>ug/L</u>	<u>MDL</u>
Acenaphthene	ND	2.0	1,3-Dichlorobenzene	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 Tasque

Laboratory Representative

September 30, 1992

Date Reported

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(Certification No. E1211)

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ANALYSIS REPORT

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

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

Project: 19513-L, F3125.00
Sample ID: MW-2
Lab ID: W1209459

EPA METHOD 8270

<u>COMPOUND NAME</u>	<u>ug/L</u>	<u>MDL</u>
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

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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

<u>COMPOUND NAME</u>	<u>ug/L</u>	<u>MDL</u>	<u>COMPOUND NAME</u>	<u>ug/L</u>	<u>MDL</u>
Acenaphthene	ND	2.0	1,3-Dichlorobenzene	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.

M. Tague

Laboratory Representative

September 30, 1992
Date Reported

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(Certification No. E1211)

42501 Albrae Street • Fremont, CA 94538 • Phone: (510) 623-0775 • (800) 247-5223 • FAX: (510) 651-8754

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

<u>COMPOUND NAME</u>	<u>ug/L</u>	<u>MDL</u>
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.

M. Tague

Laboratory Representative

September 30, 1992
Date Reported

RESNA ENVIRONMENTAL LABORATORY IS CERTIFIED BY THE STATE OF CALIFORNIA
 DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
 (Certification No. E1211)

42501 Albrae Street • Fremont, CA 94538 • Phone: (510) 623-0775 • (800) 247-5223 • FAX: (510) 651-8754

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 $\mu\text{g/L}$

<u>COMPOUND NAME</u>	<u>MS</u>	<u>MSD</u>	<u>RPD</u>	<u>Limits</u>
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 = $\mu\text{g/L}$ = micrograms per Liter
RPD = Relative Percent Difference
D = Detectable
RPD Limits < 25

MTague
Laboratory Representative

September 30, 1992
Date Reported

RESNA ENVIRONMENTAL LABORATORY IS CERTIFIED BY THE STATE OF CALIFORNIA
DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
(Certification No. 1211)

42501 Albrae Street • Fremont, CA 94538 • Phone: (510) 623-0775 • (800) 247-5223 • FAX: (510) 651-8754

RESNA

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

PROJECT NO.		PROJECT NAME/SITE					ANALYSIS REQUESTED										P.O. #				
SAMPLERS (SIGN)		SAMPLERS (PRINT)					NO. CONTAINERS	SAMPLE TYPE	BTEX (602/8020)	TPHg (8015)	TPHg (8015)	TOG 418 1/5520	601/8010	624/8240	623/8270	TDS	PNA'S	VT	CLK, Pb, TTRC	STLC	REMARKS
30125-31		Harbor Bay / Doric Construction 22 Christensenct, Alameda																			
Robin A. Adair		Robin A. Adair																			
SAMPLE IDENTIFICATION	DATE	TIME	COMP	GRAB	PRES USED	ICED															
BB1	9-1-92	10:00			HCY	Y	2								X					Hold	
MW-1		10:30			-	Y	3							X	X	X				W/209017	
MW-1		10:40			-	Y	2L							X							
																				BBI - HOLD	
																				MW1 - 8270 for PNA'S	
																				② TDS	
																				③ TTRC CLK, Pb	
																				STLC CLK, Pb	
																				VT per G.P. 9/2/92	

RELINQUISHED BY: Robin A. Adair	DATE 9/1/92	TIME 1200	RECEIVED BY:	LABORATORY: Resna	PLEASE SEND RESULTS TO: Gary Piske Sheryl Fontaine
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	REQUESTED TURNAROUND TIME NORMAL	
RELINQUISHED BY:	DATE 9/1/92	TIME 1200	RECEIVED BY: Anthony Green	RECEIPT CONDITION: good	
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	PROJECT MANAGER: Gary Piske	



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 Enerlo

Client Project ID: F3125.00, Doric Construction

QC Sample Group: 2093067-9

Reported: Oct 2, 1992

QUALITY CONTROL DATA REPORT

ANALYTE	Lead TTLIC	Lead STLC	Copper STLC	Copper TTLIC
Method:	EPA 239.2	EPA 239.2	EPA 6010	EPA 6010
Analyst:	S. Chin	S. Chin	C. Medefasser	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
Maria Lee
Project Manager

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

PROJECT NO.		PROJECT NAME/SITE						ANALYSIS REQUESTED										P.O. #:
F3125.00		Doric Construction 500 Maitland dr, Alameda						<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX (602/8020)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPHg (8015)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPHd (8015)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TOG 418 1/5520</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">601/8010</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">624/8240</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">625/8270</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">ITLC (C4A)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">STLC (C4/P6)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TDS</div> </div>										
SAMPLERS		(SIGN)																NO. CONTAINERS
		<i>[Signature]</i>																
SAMPLE IDENTIFICATION		DATE	TIME	COMP	GRAB	PRES. USED	ICED	NO. CONTAINERS	SAMPLE TYPE	REMARKS								
MW-1		9-16-92	9:40		X		Y	5		Filter & Preserve if Neccessary								
MW-2			10:55		X		V	5										
MW-3			12:10		X		V	5										
RELINQUISHED BY:		DATE	TIME	RECEIVED BY:		LABORATORY:					PLEASE SEND RESULTS TO: Cheryl Fountain 42501 Albrae St Fremont, CA 94538 Cheryl Fountain PROJECT MANAGER:							
<i>[Signature]</i>		9-18-92	9:30	<i>[Signature]</i>		Resna												
RELINQUISHED BY:		DATE	TIME	RECEIVED BY:		REQUESTED TURNAROUND TIME:												
						Normal												
RELINQUISHED BY:		DATE	TIME	RECEIVED BY LABORATORY:		RECEIPT CONDITION:												

u37
-45
4k

PROJECT NO.		PROJECT NAME/SITE						ANALYSIS REQUESTED											P.O. #:	
SAMPLERS		(SIGN) / (PRINT)						NO. CONTAINERS	SAMPLE TYPE	BTEX (602/8220)	TPHg (8015)	TPHd (8015)	TOG 418.1/5520	601/8010	62-98240	6258270	ITLC Cmpb	STLC Cmpb	REMARKS	
SAMPLE IDENTIFICATION		DATE	TIME	COMP	GRAB	PRES. USED	ICED													
F3125.00		Doric Construction																		
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:		PLEASE SEND RESULTS TO:												
<i>Anthony Jones</i>		9/18/92	2:50	<i>Rebekah A. Heyer</i>		<i>Legwin</i>		RESNA ENVIRONMENTAL LABORATORY 42501 Albras St. Fremont, CA 94539 Tel # (510) 651-1906 Fax # (510) 651-8754												
RELINQUISHED BY:		DATE	TIME	RECEIVED BY:		REQUESTED TURN AROUND TIME:		PROJECT MANAGER:												
<i>Rebekah A. Heyer</i>		9/10/92	15:30			<i>2 wks by 10/2/92</i>		<i>A. Greiss / E. Fontaine</i>												
RELINQUISHED BY:		DATE	TIME	RECEIVED BY LABORATORY:		RECEIPT CONDITION:														
		9.18.92	15:30	<i>Tim Little</i>																