

June 30, 1998

Walsh Pacific Construction
EBMUD Adeline Maintenance Facility
2130-A Adeline Street
Oakland, CA 94607
Attn.: Mr. Eugene Hays

**Subject: Transmittal of AMC Phase II Construction Materials Management
Final Report for EBMUD Adeline Maintenance Center, Oakland, CA**

Dear Mr. Hays:

Geo Plexus, Incorporated is pleased to provide the attached AMC Phase II Construction Materials Management Final Report for the East Bay Municipal Utility District Adeline Maintenance Center, located in Oakland, California.

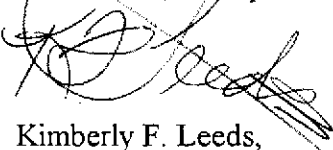
The attached report summarizes the remedial excavation objectives and threshold criteria and provides documentation (sampling data and analytical test data) for the Phase II construction soil excavation and construction dewatering activities and documents the transportation and off-site disposal of the contaminated soil.

The field observations and analytical test data support our conclusion that the remedial objectives as set forth in the Materials Management Plan (MMP) and in Addendum No. 2 to the MMP were accomplished. Additional investigation or remedial action is not warranted.

It has been a pleasure to be of service to you on this project. Questions or comments regarding the attached report should be addressed to our office.

Respectfully submitted,

Geo Plexus, Incorporated

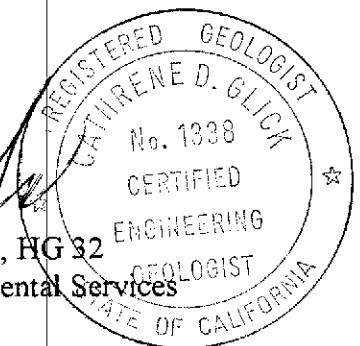


Kimberly F. Leeds,
President

cc: C95041



Cathrene Diane Glick, CEG 1338, HG 32
Director, Geologic and Environmental Services



**FINAL REPORT
AMC PHASE II CONSTRUCTION
MATERIALS MANAGEMENT REPORT
EAST BAY MUNICIPAL UTILITY DISTRICT
ADELINE MAINTENANCE CENTER
1200 21st STREET
OAKLAND, CALIFORNIA**

prepared for:

Walsh Pacific Construction
EBMUD Adeline Maintenance Facility
2130-A Adeline Street
Oakland, California

and

Special Projects Division
Engineering Department
East Bay Municipal Utility District
375 Eleventh Street
Oakland, California

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ACRONYMS

| | |
|------------|---|
| AMC | Adeline Maintenance Center |
| ASTM | American Society for Testing and Materials |
| BTEX | Volatile Aromatic Compounds (Benzene, Toluene, Ethyl benzene and Xylene) |
| DHS | State of California Department of Health Services |
| DTSC | State of California Department of Toxic Substance Control |
| EBMUD | East Bay Municipal Utility District |
| EPA | U.S. Environmental Protection Agency |
| FID | Flame Ionizing Detector |
| HVOC | Halogenated Volatile Organic Compounds |
| LUST | Leaking Underground Storage Tank |
| MMP | Materials Management Plan |
| OVA | Organic Vapor Analyzer |
| OVM | Organic Vapor Meter |
| PID | Photoionization Detector |
| RBCA | Risk-Based Corrective Action |
| RBSL | Risk-Based Screening Levels |
| RCRA | Resource Conservation and Reclamation Act |
| RWQCB | State of California Regional Water Quality Control Board |
| STLC | Soluble Threshold Limit Concentration |
| TPH gas | Total Petroleum Hydrocarbons as gasoline |
| TPH diesel | Total Petroleum Hydrocarbons as diesel |
| TTLc | Total Threshold Limit Concentrations |
| UST | Underground Storage Tank |
| WPC | Walsh Pacific Construction |
| VOA | Volatile Organic Analysis |
| VOC | Volatile Organic Compounds |

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1.0 INTRODUCTION

East Bay Municipal Utility District (EBMUD) is constructing a new Adeline Maintenance Center (AMC) at the site of the existing AMC. The AMC site comprises four city blocks, as shown in Figure 1. Walsh Pacific Construction (WPC) has been retained by EBMUD as the design/build contractor for the AMC project which includes demolition of several existing structures, the construction of 5 new buildings, and remodeling of 2 buildings. The construction project is being completed in 3-phases as indicated on Figure 2.

This report addresses the remedial soil excavation activities associated with Phase II of the construction sequence for the planned Shops Building (see Figure 2). Alameda County Health Department is the lead regulatory agency providing oversight of environmental investigations and remedial activities conducted at the site.

1.1 BACKGROUND

Previous environmental investigations of the AMC site have identified localized areas of soil contamination, primarily from the past operation of underground storage tanks. The following reports have been issued to Alameda County Department of Environmental Health to date:

Geo Plexus, Inc., 1995, "Preliminary Site Assessment Report for Adeline Maintenance Facility", prepared for East Bay Municipal Utility District.

Geo Plexus, Inc., January 18, 1996, "Materials Management Plan for Adeline Maintenance Facility", prepared for Walsh Pacific Construction and East Bay Municipal Utility District.

Geo Plexus, Inc., January 22, 1996, "Addendum No. 1 Material Management Plan for Adeline Maintenance Facility", prepared for Walsh Pacific Construction and East Bay Municipal Utility District.

Geo Plexus, Inc., February 2, 1996, "Response to Alameda County Review Comments on the Material Management Plan for Adeline Maintenance Facility", prepared for Walsh Pacific Construction and East Bay Municipal Utility District.

Geo Plexus, Inc., February 2, 1996, "Submittal of Analytical Test Data from Phase 1 Additional Test Pits, EBMUD Adeline Maintenance Center", prepared for Walsh Pacific Construction and East Bay Municipal Utility District.

Geo Plexus, Inc., May 29, 1996, "AMC Phase 1- Construction Materials Management Final Report for East Bay Municipal Utility District Adeline Maintenance Center, Oakland, CA" prepared for Walsh Pacific Construction and East Bay Municipal Utility District.

Geo Plexus, Inc., September 12, 1996, "Addendum No. 2 Material Management Plan for EBMUD Adeline Maintenance Facility", prepared for Walsh Pacific Construction and East Bay Municipal Utility District.

Geo Plexus, Inc., January 22, 1997, "Subsurface Investigation Report and Response to Alameda County Review Comments on Addendum No. 2 to the Material Management Plan for EBMUD Adeline Maintenance Facility", prepared for Walsh Pacific Construction and East Bay Municipal Utility District.

The Materials Management Plan (MMP) for the EBMUD AMC, reference (12), was prepared by Geo Plexus, Inc. to present the general history of the project site, present an evaluation of human and environmental risks associated with the known soil contaminants, present threshold criteria for the soil and ground water, and present phase-specific guidelines for remediation of soil and ground water containing contaminants above the threshold criteria to be implemented during completion of the earthwork associated with the AMC construction.

Addendum No. 1 to the Materials Management Plan, reference (13), was issued to address Alameda County comments on the MMP and to address the planned additional test pit investigation for the Phase 1 construction site and to address the remedial excavation activities for the AMC Phase 1 site. The Phase 1 Construction Materials Management Final Report, reference (17), documented the remedial excavation activities and soil disposal for Phase 1 construction.

Addendum No. 2 to the Materials Management Plan, reference (18), was issued to address the planned additional investigation for the Phase II construction site and to address the remedial excavation activities for the AMC Phase II site.

1.2 PREVIOUS INVESTIGATIVE ACTION

Six underground storage tanks (see Figure 3) were excavated and removed from the property in November, 1994. The native soil material exposed in the sidewalls of the excavation exhibited strong petroleum odors, soil discoloration/staining (gray-green color) and free-product was observed to be leaching from these soils. The excavation for the 4,000 gallon and adjacent concrete encased tanks was extended laterally to the north, east and south to abate the impacted soil (see Figure 3).

The excavation was extended vertically to a depth of 13- to 16-feet below ground surface. Perched water was observed seeping from various locations along the side walls of the excavation and along the sand bedding for the various utility lines (storm sewer, sanitary sewer, water, phone lines, etc.) encountered within the limits of the excavation. Residual, near surface soil contamination remains in-place around the perimeter of the excavation, particularly beneath West Grand Avenue and beneath the former service station building

Subsequent to the tank removal and soil excavation activities, a limited preliminary site assessment was performed, reference (11), which included advancing eighteen exploration borings across the property at the locations indicated on Figure 4. The borings were located to investigate potential areas of subsurface contamination from EBMUD facilities and operations, as well as from previous site uses (as documented by aerial photographs and site records) which included residential housing and commercial office/warehouse structures.

In addition to the former underground storage tanks, Oil and Grease Compounds were detected at concentrations of 13,000-18,000 ppm and TPH diesel was detected at concentrations of 2,200 ppm in the soil samples obtained adjacent to a hydraulic lift inside the Automotive Service Building. Low concentrations of TPH gas and Volatile Organic Compounds were also detected.

Specifics of these investigation activities were presented in the MMP and Addendums No. 1 and No. 2.

1.3 SUPPLEMENTAL INVESTIGATIONS

In October, 1996, Geo Plexus, Inc personnel observed the advancement of 15 additional soil borings across the Phase II and Phase III construction areas to obtain soil samples to further evaluate the petroleum impacted soils and to obtain soil samples for pre-characterization for disposal of the excavated soil. Figure 5 indicates the locations of the additional borings (identified as WB-1 through WB-15). The investigation report, reference (19), also provided responses to Agency comments on Addendum No. 2 to the MMP.

At the request of Walsh Pacific Construction, five (5) additional test pits were advanced within the Phase II construction area on May 6, 1997 to pre-characterize these soils for off-site disposal. The test pits were advanced at locations of planned construction related excavations (i.e., elevator pit, dip tank, etc.) and at locations of previously identified areas of remedial excavation (i.e., gasoline station, auto shop, etc.). Figure 6 indicates the locations of these test pits.

Soil samples from the test pits were obtained utilizing a backhoe and were collected by advancing a pre-cleaned 2 inch I.D. stainless steel liner into the undisturbed soil contained in the backhoe bucket. The soil samples were immediately sealed in the liners using teflon tape and plastic caps and properly labeled including: the date, time, sample location, and project number. The samples were immediately placed in a cooler maintained at 3-5°C for transport to the laboratory under chain-of-custody documentation. These soil samples were submitted to and tested by McCampbell Analytical, a State of California, Department of Health Services certified testing laboratory.

The State certification documents for McCampbell Analytical are included in Appendix A. Analytical testing was scheduled and performed in accordance with the State of California, Regional Water Quality Control Board Recommendations for Initial Evaluation and Investigation of Underground Tanks and Alameda County Department of Environmental Health guidelines.

Since the objectives of these test pits were for disposal characterization, the soil samples were composited by the laboratory and tested for:

- Total Petroleum Hydrocarbons as gasoline by Method GCFID 5030/8015
- Total Petroleum Hydrocarbons as diesel by Method GCFID 3550/8015
- Volatile Aromatics (BTEX and MTBE) by EPA Method 8020
- Oil & Grease by EPA Method 5520
- Volatile Halocarbons by EPA Method 8010
- TCLP Benzene by Method GCFID 5030/8015
- CAM 5 Metals by EPA Methods 6000/7000 Series
- STLC for Lead and Zinc by EPA Methods 6000/7000 Series

The results of these limited sampling activities were presented in two Geo Plexus Letter Reports dated May 22, 1997, references (21) and (22). The chain-of-custody forms and analytical test data are included in Appendix B.

The composite test sample obtained from the Dip Tank Test Pit, the Auto Shop Test Pit, and Test Pit-2 samples (see Appendix B) contained concentrations of lead at 9.5 ppm. The composite test sample obtained from the Gas Station Test Pit and Test Pit-1 samples contained concentrations of lead at 170 ppm. Based on the analytical testing of the soil samples from the area, the data suggests that the observed high concentration of lead from the gasoline station area was an isolated occurrence and not representative of the area.

2.0 EXCAVATION THRESHOLD CRITERIA

Table 1 presents the updated threshold criteria for soil at the AMC for petroleum hydrocarbon contaminants, VOC's, and PNA's based on the protection of ground water resources from compounds leaching from the soil as established in Addendum No. 2 to the MMP.

TABLE 1
PETROLEUM AND VOC THRESHOLD VALUES FOR SOIL

| Constituent | Threshold Values for Within Building Footprint | RBSL Threshold Values for Outside Building Footprint |
|-----------------------|--|--|
| TPH gas | 100 ppm | unlimited |
| TPH diesel | 1,000 ppm | unlimited |
| Oil & Grease | 1,000 ppm | unlimited |
| Benzene | 0.3 ppm | 1.67 ppm* |
| Toluene | 0.3 ppm | 360 ppm |
| Ethylbenzene | 1 ppm | 130 ppm |
| Xylenes | 1 ppm | Res |
| Napthalene | 1 ppm | 64 ppm |
| Benzo(a)pyrene | 1 ppm | Res |
| 1,4 Dichlorobenzene | 310 ppm | 310 ppm |
| 1,1 Dichloroethane | 92 ppm | 92 ppm |
| 1,2 Dichloroethane | 2.5 pm | 2.5 pm |
| Fluoranthene | Res | Res |
| Phenanthrene | Res | Res |
| Pyrene | Res | Res |
| Tetrachloroethane | 8,800 ppm | 8,800 ppm |
| 1,1,1-Trichloroethane | 330 ppm | 330 ppm |
| 1,1,2-Trichloroethane | 0.42 ppm | 0.42 ppm |
| Trichloroethene | 2.4 ppm | 2.4 ppm |

RBSL - Risk Based Screening Level from RBCA Tier 1 Evaluation.

* Value of 5.82 ppm reduced by 29 percent in accordance with RWQCB guidelines.

Res - selected risk level is not exceeded for pure compound present at any concentration.

Based on the established threshold criteria, EBMUD and Alameda County agreed that soil within the proposed footprints of the planned structures would be excavated to concentrations below the Tri-Regional Guidelines and soil outside the proposed footprints of the planned structures would be excavated to concentrations below the ASTM-RBCA Tier-1 RBSL's. As there are no Tri-Regional Guidelines for VOC's and PNA's, and the calculated RBSL's for soil leaching to ground water are more conservative than calculated RBSL's for soil volatilization indoors, the RBSL's for soil leaching to ground water for these compounds were applied to all areas of the AMC Phase-2 and Phase-3 construction sites.

Threshold Criteria for heavy metal compounds were as stipulated in the California Code of Regulations Title 22 as Total Threshold Limit Concentrations (TTLC) as described in the MMP. TTLC values for the LUFT-5 Metals (for waste oil evaluation) are presented in Table 2.

TABLE 2
HEAVY METAL THRESHOLD VALUES FOR SOIL

| Metals of Concern | Threshold Values TTLC |
|-------------------|--------------------------|
| Cadmium | 100 ppm |
| Chromium | 2,500 ppm |
| Lead | 1,000 ppm |
| Nickel | 2,000 ppm |
| Zinc | 5,000 ppm |

3.0 REMEDIAL ACTION METHODOLOGIES

Based on the established threshold values, the petroleum contaminated soils at the Phase II site requiring removal included the former gasoline service station area and the former automotive service building (see Figure 7). The excavation activities were accomplished by Bay Cities Paving and Grading under contract with WPC under direct oversight by Geo Plexus, Incorporated personnel.

3.1 EXCAVATION PROTOCOLS

The soil removal was accomplished with an excavator and were observed and logged under the direct oversight of a Certified Engineering Geologist from Geo Plexus. The work was scheduled and coordinated with, and observed by, Ms. Julliet Shin with Alameda County Department of Environmental Health.

The soils exposed in the sidewalls and base of the excavations were screened in the field through the use of an Photovac 200 Organic Vapor Meter (OVM) as the excavation proceeded.

3.2 EXCAVATION SOIL CHARACTERIZATION

Soil samples were obtained from the sidewalls and from the base of the excavations as the excavations proceeded to determine the limits of the excavations based on the established threshold criteria and to document and classify the soil materials.

Soil samples were collected from the sidewalls and base of the excavation for analytical testing. The soil samples were obtained by advancing a pre-cleaned 2 inch I.D. brass liner into the undisturbed soil. The soil samples were immediately sealed in the liners using aluminum foil or teflon tape and plastic caps and properly labeled including: the date, time, sample location, and project number. The samples were then placed in a cooler maintained at 3-5°C for transport to the laboratory under chain-of-custody documentation.

The soil samples were submitted to and tested by McCampbell Analytical. Analytical testing was scheduled and performed in accordance with the State of California, Regional Water Quality Control Board Recommendations for Initial Evaluation and Investigation of Underground Tanks and Alameda County Department of Environmental Health guidelines. The testing included:

- Total Petroleum Hydrocarbons as gasoline by Method GCFID 5030/8015;
- Total Petroleum Hydrocarbons as diesel by Method GCFID 3550/8015;
- Oil & Grease by EPA Method 5520
- Volatile Aromatics (BTEX) by EPA Method 8020;
- Volatile Halocarbons by EPA Method 8010;
- PNA's by EPA Method 8270; and
- LUFT 5 Metals by EPA 6000/7000 Series.

3.2.1 Former Gasoline Station Excavation

The excavation for the former gasoline station site was initiated immediately north of the previously excavated area and adjacent to West Grand Avenue. The excavation proceeded to the north and west based on field indicators and analytical test data to abate any impacted soil which was exceeded the threshold limits. The excavation extended to the south to encounter the former gravel backfill and ranged from approximately 8- to 9-feet deep.

Figure 8 illustrates the locations of the soil samples obtained throughout the excavation process. Approximately 1,300 yards of soil were removed and stockpiled on-site for additional characterization for off-site disposal (discussed in Section 4.0). No additional tanks or sumps were encountered during this activity. The chain-of-custody forms and analytical testing data are included in Appendix C.

Table 3 summarizes the concentrations of TPH gas, TPH diesel, and Benzene detected in the soil samples with reference to the applicable threshold criteria. Where the concentrations of these compounds exceeded the threshold criteria, additional soil was excavated and the area re-sampled.

3.2.2 Former Auto Shop Excavation

The locations of three (3) former hydraulic lifts were excavated to remove the lift cylinders and to obtain verification soil samples. Two of the lifts were contained within concrete encasements while the third consisted of a direct buried ram cylinder and reservoir tank. Approximately 200 yards of soil were removed and stockpiled on-site for additional characterization for off-site disposal (discussed in Section 4.0). Figure 9 illustrates the locations of the soil samples obtained throughout the excavation process. The chain-of-custody forms and analytical testing data are included in Appendix C.

Table 4 summarizes the concentrations of TPH gas, TPH diesel, Oil & Grease, and Benzene detected in the soil samples with reference to the applicable threshold criteria. Where the concentrations of these compounds exceeded the threshold criteria, additional soil was excavated and the area re-sampled.

TABLE 3
SUMMARY OF GASOLINE STATION ANALYTICAL TEST DATA
CONFIRMATION SOIL SAMPLES
GASOLINE, DIESEL AND BENZENE

| Sample | TPH gas | TPH diesel | Benzene | Result/ Action |
|-----------|---------|------------|---------|--|
| 2OX1-S1 | N.D. | 1.8 | N.D. | Below Ext. Bldg. Threshold |
| 2OX1-S2 | N.D. | N.D. | N.D. | Below Ext. Bldg. Threshold |
| 2OX1-S3 | 1.1 | N.D. | N.D. | Below Ext. Bldg. Threshold |
| 2OX1-S4 | 2.0 | 3.2 | N.D. | Below Ext. Bldg. Threshold |
| 2OX1-S5 | 3.0 | 3.0 | N.D. | Below Ext. Bldg. Threshold |
| 2OX1-S6 | N.D. | 1.4 | N.D. | Below Ext. Bldg. Threshold |
| 2OX1-S7 | N.D. | 2.6 | N.D. | Below Ext. Bldg. Threshold |
| 2OX1-S8 | 2.7 | 3.8 | 0.40 | Below Ext. Bldg. Threshold |
| 2OX1-S9 | 3.1 | N.D. | 1.1 | Below Ext. Bldg. Threshold |
| 2OX1-S10 | N.D. | 4.0 | N.D. | Below Ext. Bldg. Threshold |
| 2OX1-S11 | 11 | 7.9 | 0.055 | Below Int. Bldg. Threshold |
| 2OX1-S12 | 67 | 27 | 4.1 | Exceeded Int. Bldg. Threshold Area Excavated and Retested |
| 2OX1-S12A | 73 | 44 | 4.6 | Exceeded Int. Bldg. Threshold Area Excavated and Retested |
| 2OX1-S12B | 27 | | 0.13 | Below Int. Bldg. Threshold |
| 2OX1-S13 | 4.2 | 9.7 | 0.010 | Below Ext. Bldg. Threshold |
| 2OX1-S14 | N.D. | N.D. | N.D. | Below Ext. Bldg. Threshold |
| 2OX1-S15 | 4.5 | 3.8 | 0.069 | Below Ext. Bldg. Threshold |
| 2OX1-S16 | 6.5 | N.D. | 0.26 | Below Ext. Bldg. Threshold |
| 2OX1-S17 | 12 | 5.3 | 0.29 | Below Ext. Bldg. Threshold |
| 2OX1-S18 | N.D. | 1.2 | N.D. | Below Ext. Bldg. Threshold |
| 2OX1-S19 | 1.2 | 1.5 | 0.006 | Below Ext. Bldg. Threshold |
| 2OX1-S20 | 2.6 | 1,500 | N.D. | Exceeded Ext. Bldg. Threshold Area Excavated and Retested |
| 2OX1-S20A | 27 | 42 | N.D. | Below Ext. Bldg. Threshold |

Notes: Concentrations reported as Parts Per Million (mg/kg).
 N.D. indicates that concentrations below detection limit.

TABLE 4
SUMMARY OF AUTO SHOP ANALYTICAL TEST DATA
CONFIRMATION SOIL SAMPLES
GASOLINE, DIESEL, OIL & GREASE AND BENZENE

| Sample | TPH gas | TPH diesel | Oil & Grease | Benzene | Result/ Action |
|----------|---------|------------|--------------|---------|-----------------------------|
| HOX1-S1 | --- | --- | --- | --- | Area Excavated and Retested |
| HOX1-S2 | N.D. | 3.3 | N.D. | N.D. | Below Ext. Bldg. Threshold |
| HOX1-S3 | N.D. | 1.8 | N.D. | N.D. | Below Ext. Bldg. Threshold |
| HOX1-S4 | N.D. | 3.7 | N.D. | N.D. | Below Ext. Bldg. Threshold |
| HOX1-S5 | N.D. | 4.7 | N.D. | N.D. | Below Ext. Bldg. Threshold |
| HOX1-S6 | N.D. | 1.8 | N.D. | N.D. | Below Ext. Bldg. Threshold |
| HOX1-S7 | N.D. | 3.5 | N.D. | N.D. | Below Ext. Bldg. Threshold |
| HOX1-S8 | N.D. | 5.6 | N.D. | 0.040 | Below Ext. Bldg. Threshold |
| HOX1-S9 | N.D. | N.D. | N.D. | N.D. | Below Ext. Bldg. Threshold |
| HOX1-S10 | N.D. | N.D. | N.D. | N.D. | Below Ext. Bldg. Threshold |
| HOX1-S11 | N.D. | N.D. | N.D. | N.D. | Below Ext. Bldg. Threshold |
| 2HOX1-S1 | 67 | N.D. | N.D. | 4.1 | Below Ext. Bldg. Threshold |
| 2HOX1-S2 | 27 | N.D. | N.D. | 0.13 | Below Ext. Bldg. Threshold |
| 2HOX1-S3 | 4.2 | N.D. | N.D. | 0.010 | Below Ext. Bldg. Threshold |
| 2HOX1-S4 | N.D. | N.D. | N.D. | N.D. | Below Ext. Bldg. Threshold |

Notes: Sample 2HOX-S1 not analyzed due to obvious presence of petroleum compounds
 Concentrations reported as Parts Per Million (mg/kg).
 N.D. indicates that concentrations below detection limit.

In addition, the samples from the hydraulic lift excavations did not contain detectable concentrations of Volatile Halocarbon Compounds or PNA's. The concentrations of Heavy Metals in these samples did not exceed general background concentrations and do not represent an environmental health risk.

The excavation activities were terminated upon reaching the objective threshold criteria as verified by analytical testing of the soil samples.

Additional soil screening was reportedly performed by WPC personnel for the remainder of the construction related excavation activities for the Shops Building (i.e., pile caps, footings, etc.). Based on their reported observations, additional soil contamination above the threshold criteria was not encountered.

3.3 EXCAVATION WATER DISPOSAL

Water seepage (perched water) was observed from various locations along the side walls of the excavations and along the sand bedding for the various utility lines (storm sewer, sanitary sewer, water, electric lines, etc.) encountered within the excavations. The water observed in these shallow areas was not classified as ground water for characterization purposes.

Water seeping into the excavation was pumped from the excavation to a 20,000 gallon Baker tank and was treated by an activated carbon filter system (consisting of two Cameron-Yakima WSU-55 canisters) prior to discharged to the sanitary sewer under permit conditions from East Bay Municipal Utility District.

4.0 EXCAVATED SOIL TRANSPORT AND DISPOSAL

The soil material generated during the excavation activities was stockpiled on-site and characterized for disposal.

Approximately 2,500 tons of soil were transported as non-hazardous waste and disposed of at BFI Vasco Road Landfill in Livermore, California.

In addition, approximately 900 tons of soil containing elevated levels of Lead (above STLC) were manifested and transported as hazardous waste by ECDC and disposed of at ECDC Environmental Landfill in East Carbon, Utah.

5.0 CONCLUSIONS

Based on Geo Plexus personnel observations, the results of the analytical testing, and the reported WPC observations, the objectives of the soil removal from within the footprint and outside of the footprint of the Stores Building were accomplished to concentrations below the threshold limit criteria.

It is our opinion that the project site does not represent an environmental risk to the local or regional ground water conditions and that additional investigation, analysis, or remediation is not warranted. It is recommended that this section of the AMC site be considered for closure without further action.

6.0 LIMITATIONS

We have only observed a small portion of the pertinent soil conditions present at the site. Subsurface conditions across the site have been extrapolated from information obtained from review of existing documents, field investigations, excavation observations, and analytical test data. The conclusions made herein are based on the assumption that soil conditions do not deviate appreciably from those described in the reports and observed in the field.

Geo Plexus, Incorporated provides consulting services in the fields of Geology and Engineering Geology performed in accordance with presently accepted professional practices. Professional judgments presented herein are based partly on information obtained from review of published documents, partly on evaluations of the technical information gathered, and partly on general experience in the fields of geology and engineering geology.

No attempt was made to verify the accuracy of the information prepared/provided by others used in preparation of this assessment report.

If you have questions regarding the findings, conclusions, or recommendations contained in this report, please contact us. We appreciate the opportunity to serve you.

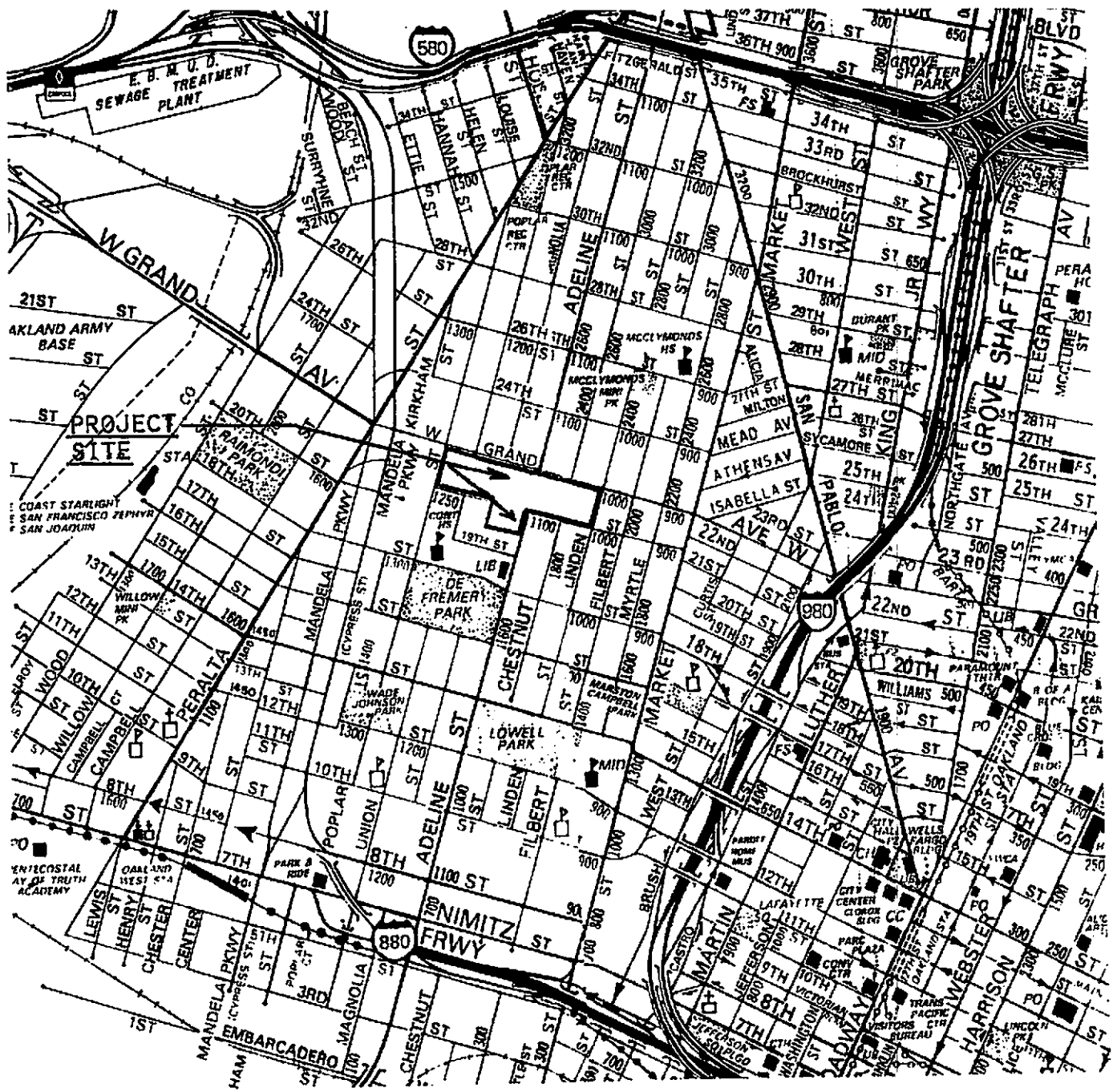
Geo Plexus, Incorporated

REFERENCES

- (1) American Society for Testing and Materials (ASTM), 1994, "Emergency Standard Guide for Risk-Based Corrective Action Applied at Petroleum Release Sites", ES 38-94, July, 1994.
- (2) _____, 1995, "Risk-Based Corrective Action Applied at Petroleum Release Sites", E 1739-95, November, 1995.
- (3) California Code of Regulations, Title 22, Social Security, Division 4, Environmental Health (current version).
- (4) California Regional Water Quality Control Board, San Francisco Bay Region, 1990, "Tri-Regional Board Staff Regulations for Preliminary Evaluation and Investigation of Underground Tank Sites", August 10, 1990.
- (5) _____, 1990, Guidance Document for the Development of Health-Based Remedial Clean-Up Levels for the South Bay Multi-Site Cooperative Superfund Program, prepared by Clement Associates Inc.
- (6) California Water Resource Control Board, Leaking Underground Fuel Tank Task Force, 1989, "Leaking Underground Fuel Tank Manual: Guidance for Site Assessment, Cleanup, and Underground Storage Tank Closure", revised October, 1989.
- (7) General Environmental Management Services (GEMS), 1994, "Interim Remedial Action Summary Report for EBMUD Facility located at 1200 21st Street, Oakland, CA".
- (8) United States Department of Health and Human Services, Public Health Service, Centers for Disease Control, National Institute for Occupational Safety and Health (NIOSH), 1990, "NIOSH Pocket Guide to Chemical Hazards".
- (9) United States, Environmental Protection Agency, 1982, "Test Methods for Evaluating Solid Waste, SW-846, Second Edition", 1982.
- (10) United States, Resource Conservation and Recovery Act (RCRA), Pub. L. No. 94-580, 90 Stat. 2795 (1976), codified as 42 U.S.C. 6901 *et seq.*; as amended.
- (11) Geo Plexus, Inc., 1995, "Preliminary Site Assessment Report for Adeline Maintenance Facility", prepared for East Bay Municipal Utility District.
- (12) _____, January 18, 1996, "Materials Management Plan for Adeline Maintenance Facility", prepared for Walsh Pacific Construction and East Bay Municipal Utility District.

- (13) _____, January 22, 1996, "Addendum No. 1 Material Management Plan for Adeline Maintenance Facility", prepared for Walsh Pacific Construction and East Bay Municipal Utility District.
- (14) _____, January 30, 1996, "Interim Submittal of Analytical Test Data from Phase 1 Additional Test Pits, EBMUD Adeline Maintenance Center", prepared for Walsh Pacific Construction and East Bay Municipal Utility District.
- (15) _____, February 2, 1996, "Response to Alameda County Review Comments on the Material Management Plan for Adeline Maintenance Facility", prepared for Walsh Pacific Construction and East Bay Municipal Utility District.
- (16) _____, February 2, 1996, "Submittal of Analytical Test Data from Phase 1 Additional Test Pits, EBMUD Adeline Maintenance Center", prepared for Walsh Pacific Construction and East Bay Municipal Utility District.
- (17) _____, May 29, 1996, "AMC Phase 1- Construction Materials Management Final Report for East Bay Municipal Utility District Adeline Maintenance Center, Oakland, CA" prepared for Walsh Pacific Construction and East Bay Municipal Utility District.
- (18) _____, September 12, 1996, "Addendum No. 2 Material Management Plan for EBMUD Adeline Maintenance Facility", prepared for Walsh Pacific Construction and East Bay Municipal Utility District.
- (19) _____, January 22, 1997, "Subsurface Investigation Report and Response to Alameda County Review Comments on Addendum no. 2 to the Material Management Plan for EBMUD Adeline Maintenance Facility", prepared for Walsh Pacific Construction and East Bay Municipal Utility District.
- (20) _____, May 20, 1997, "Summary Letter for Soil Excavation and Disposal at EBMUD Adeline Maintenance Center", prepared for Walsh Pacific Construction and East Bay Municipal Utility District.
- (21) _____, May 22, 1997, "Submittal of Analytical Test Data from Phase II Test Pits for Disposal Characterization, EBMUD Adeline Maintenance Center", prepared for Walsh Pacific Construction and East Bay Municipal Utility District.
- (22) _____, May 22, 1997, "Submittal of Additional Analytical Test Data from Phase II Test Pits for Disposal Characterization, EBMUD Adeline Maintenance Center", prepared for Walsh Pacific Construction and East Bay Municipal Utility District.
- (23) _____, June 20, 1997, "Results of Analytical Testing of Stockpiled Soil from EBMUD Adeline Maintenance Center", prepared for Walsh Pacific Construction and East Bay Municipal Utility District.

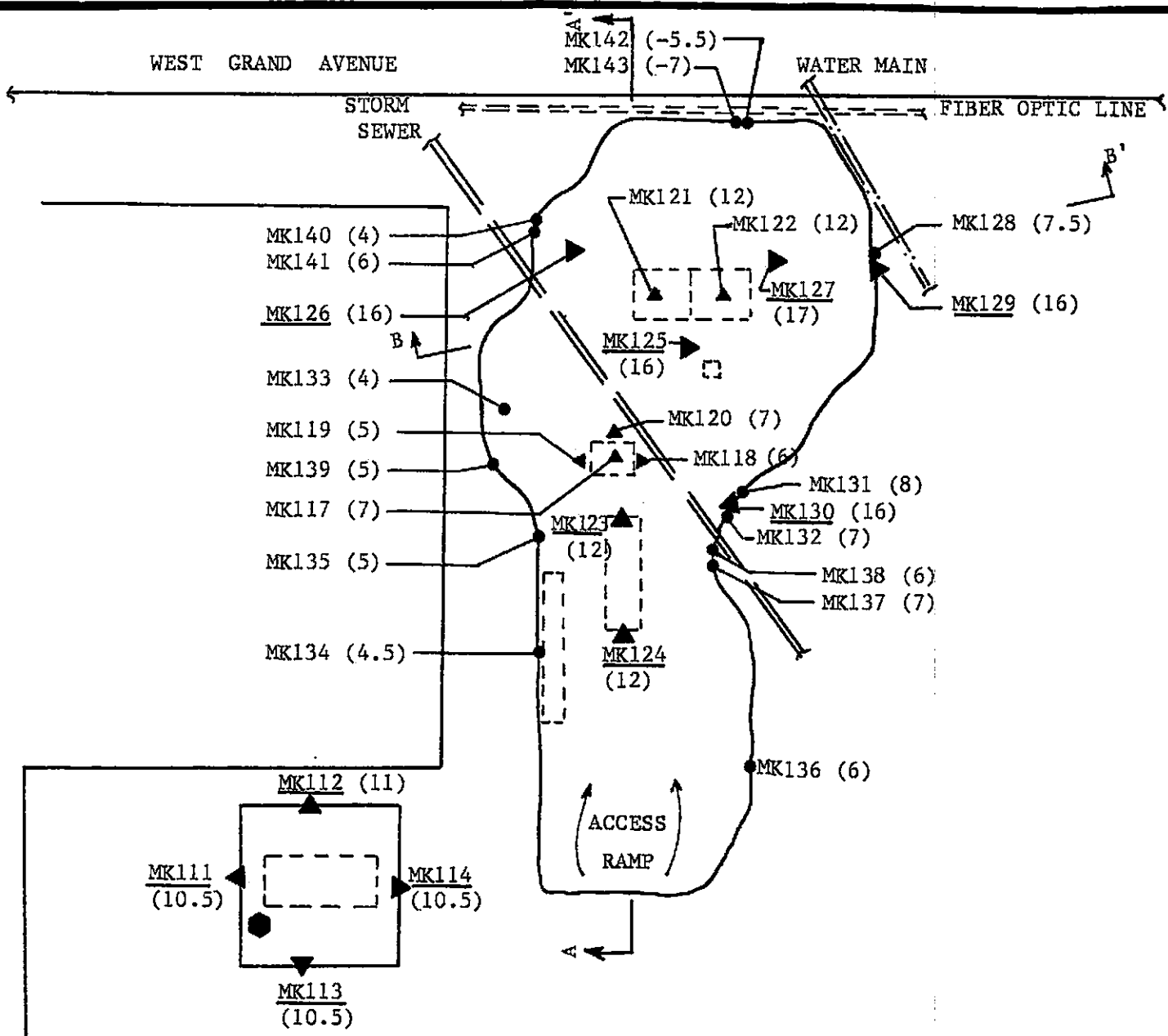
(24) _____, June 26, 1997, "Summary Letter for Soil Excavation and Disposal at EBMUD Adeline Maintenance Center", prepared for Walsh Pacific Construction and East Bay Municipal Utility District.



Source: Thomas Brothers Maps

GeoPlexus, Inc.

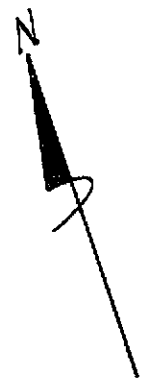
| | | |
|------------------------------|--------------|-----------------|
| EAST BAY MUD FACILITY | | |
| DATE 11/19/94 | SCALE n/a | DRAWN BY dcg |
| LOCATION PLAN | | |
| | | Figure 1 |



MK115A,B Water Samples
 MK116 Water Sample

LEGEND

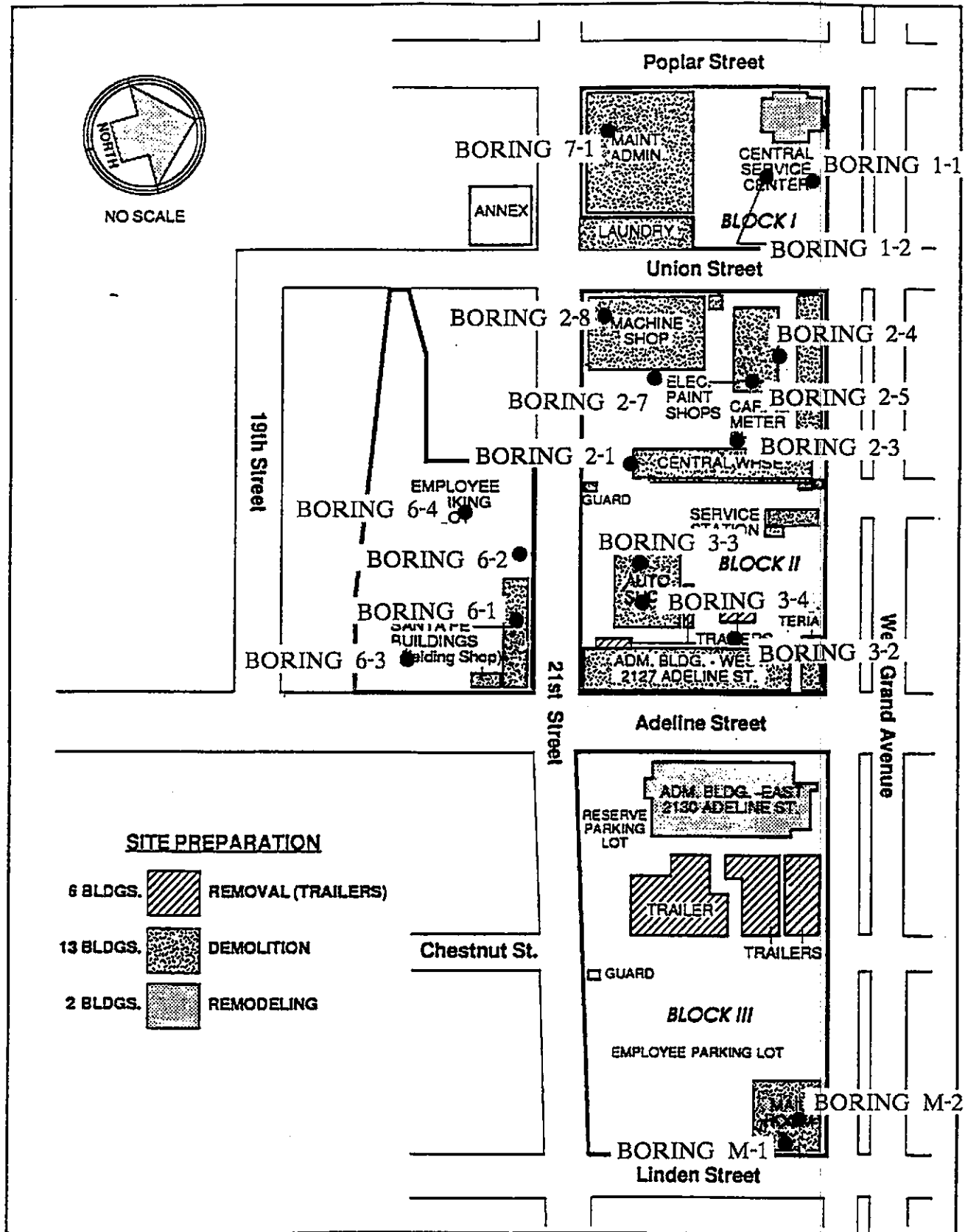
- ▲ Shallow Samples (Area Excavated)
- ▲ Final Bottom/Sidewall Samples
- Shallow Sidewall Samples
(located in remaining shallow zone)
- (16) Depth Below Ground Surface of Samples



| SAMPLE LOCATION PLAN | | |
|----------------------|-----------------|-----------------|
| DATE 12/2/94 | SCALE 1"=20' | DRAWN BY dgc |
| EBMUD SITE | | |
| | | Figure 3 |



NO SCALE



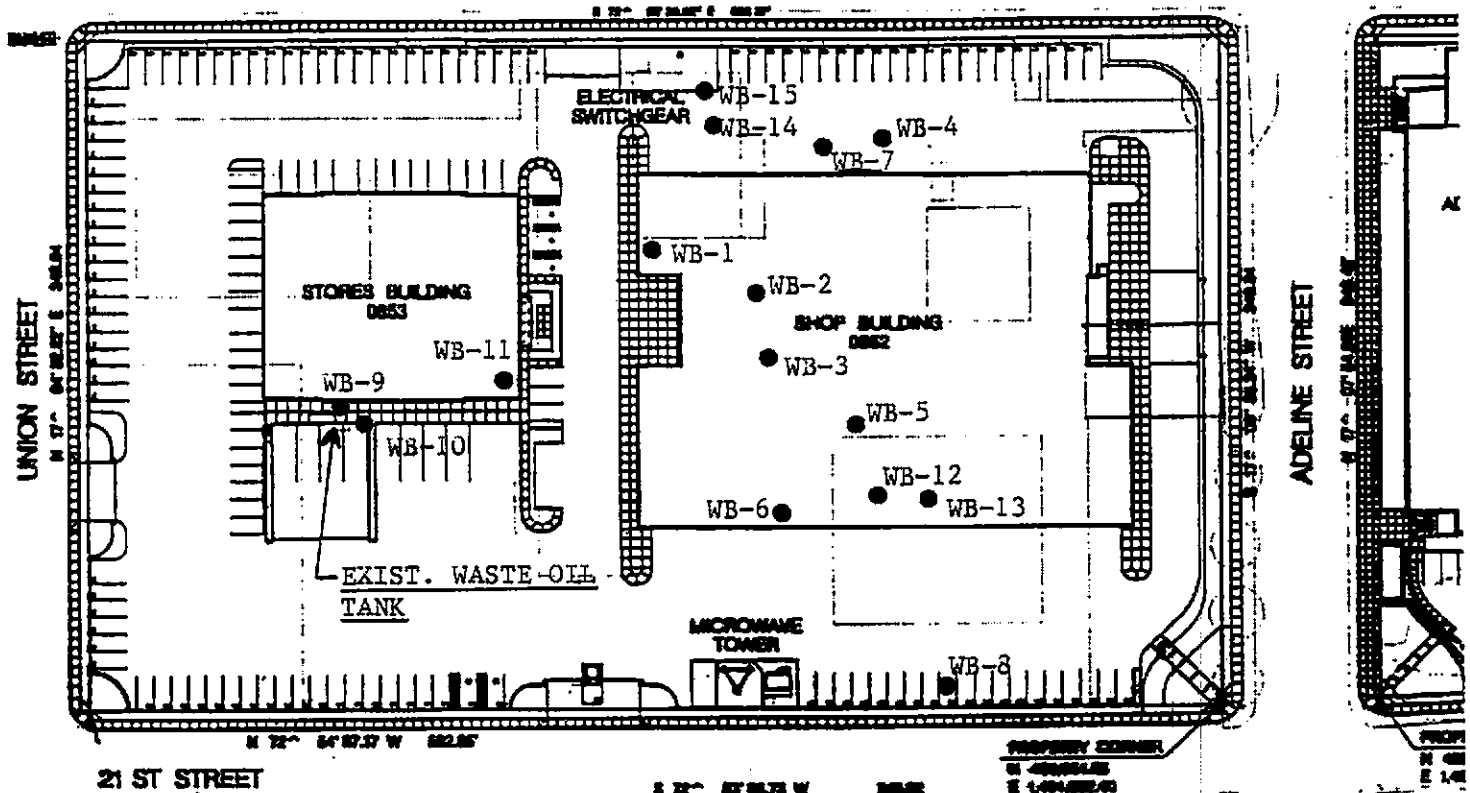
SITE PREPARATION

- 6 BLDGS. REMOVAL (TRAILERS)
- 13 BLDGS. DEMOLITION
- 2 BLDGS. REMODELING

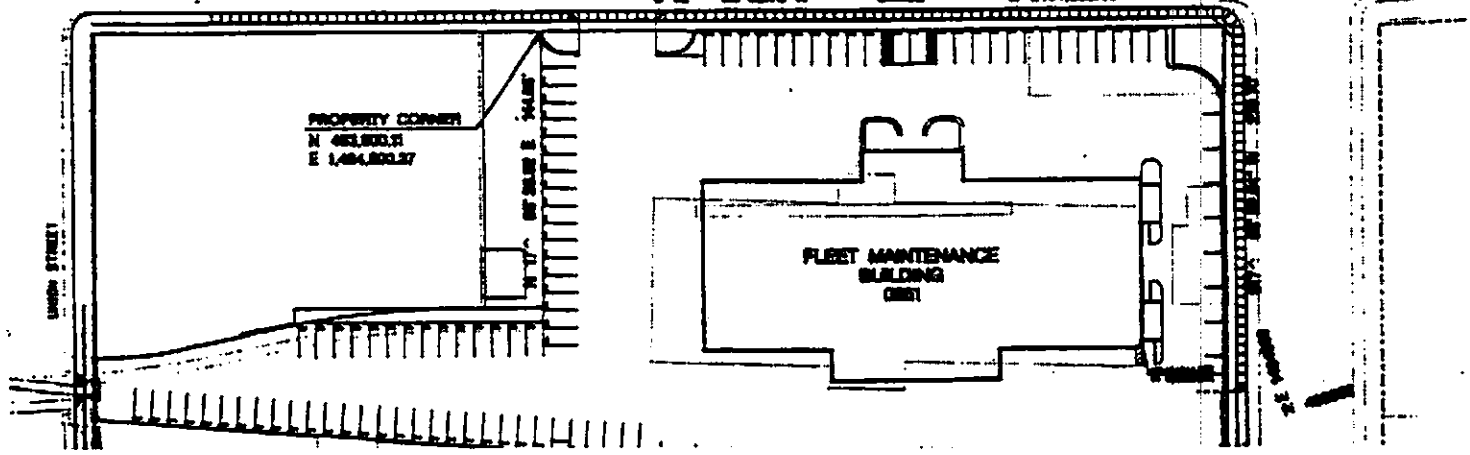
Chestnut St.

| EBMUD FACILITY | | |
|----------------------|--------------|------------------|
| DATE 2/12/95 | SCALE n/a | DRAWN BY d cg |
| BORING LOCATION PLAN | | |
| | | Figure 4 |

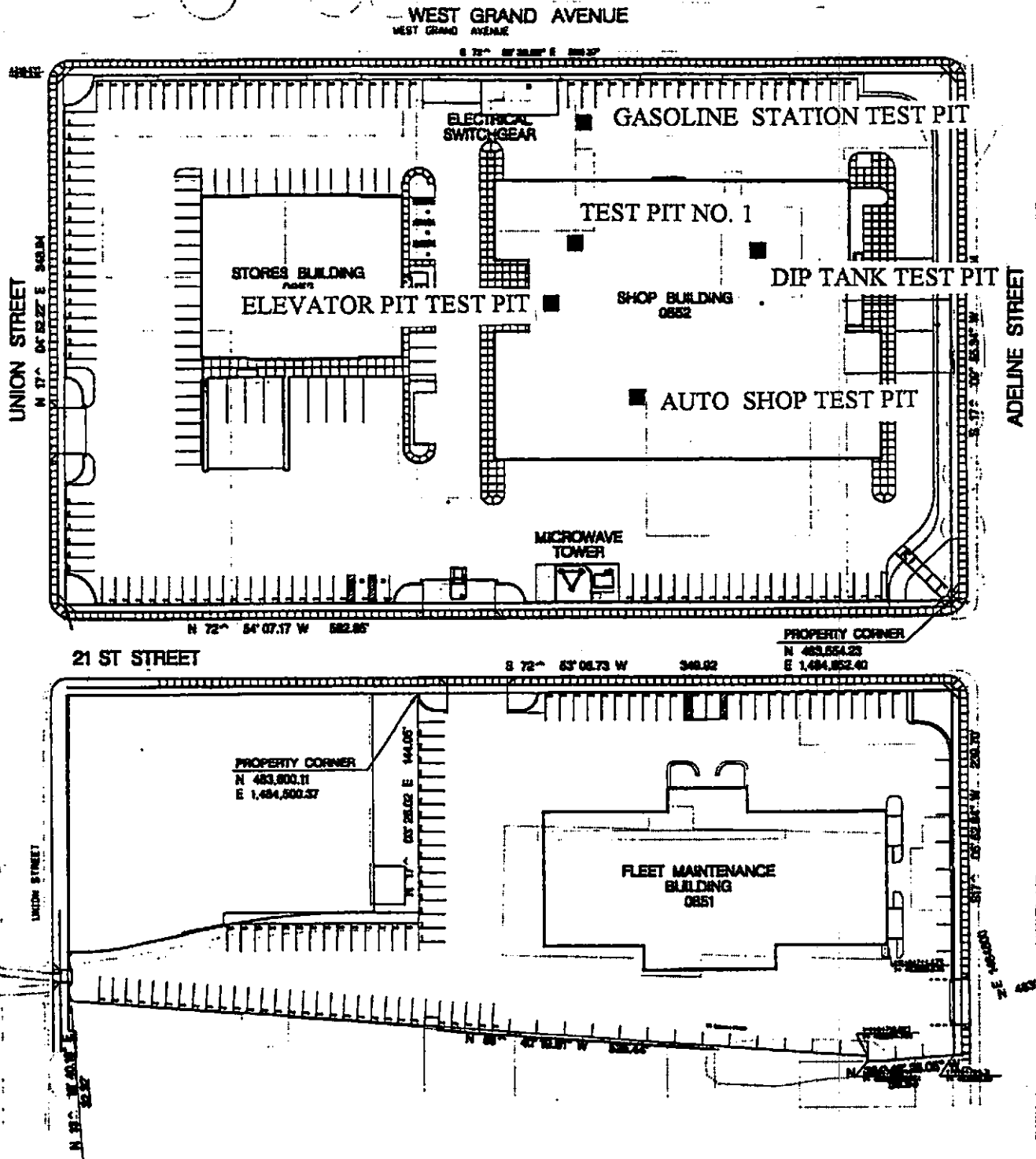
WEST GRAND AVENUE
WEST GRAND AVENUE



21 ST STREET



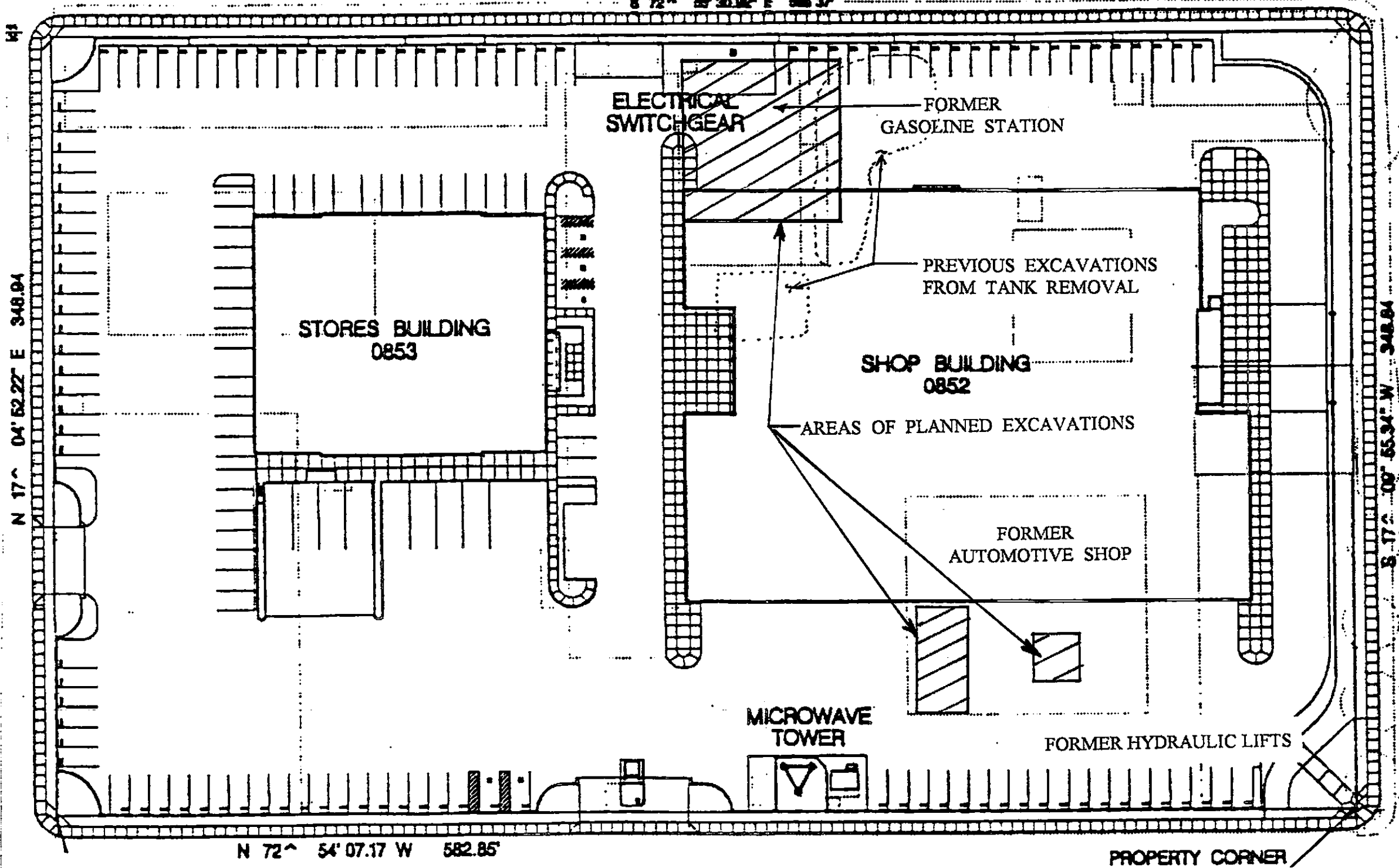
| 1996 BORING LOCATIONS | | |
|-----------------------|------|----------|
| P12-30-96 | 100' | deg |
| EBMUD SITE | | |
| | | Figure 5 |



| TEST PIT LOCATION PLAN | | |
|------------------------|-------|----------|
| DATE | SCALE | DRAWN BY |
| 2/16/98 | n/a | cdg |
| EBMUD ADELINE CENTER | | |
| | | Figure 6 |

WEST GRAND AVENUE
WEST GRAND AVENUE

S 72° 07' 30.92" E 586.37'



N 17° 04' 52.22" E 348.84'

N 72° 54' 07.17" W 582.85'

S 77° 09' 55.94" W 348.84'

ADELINE STREET

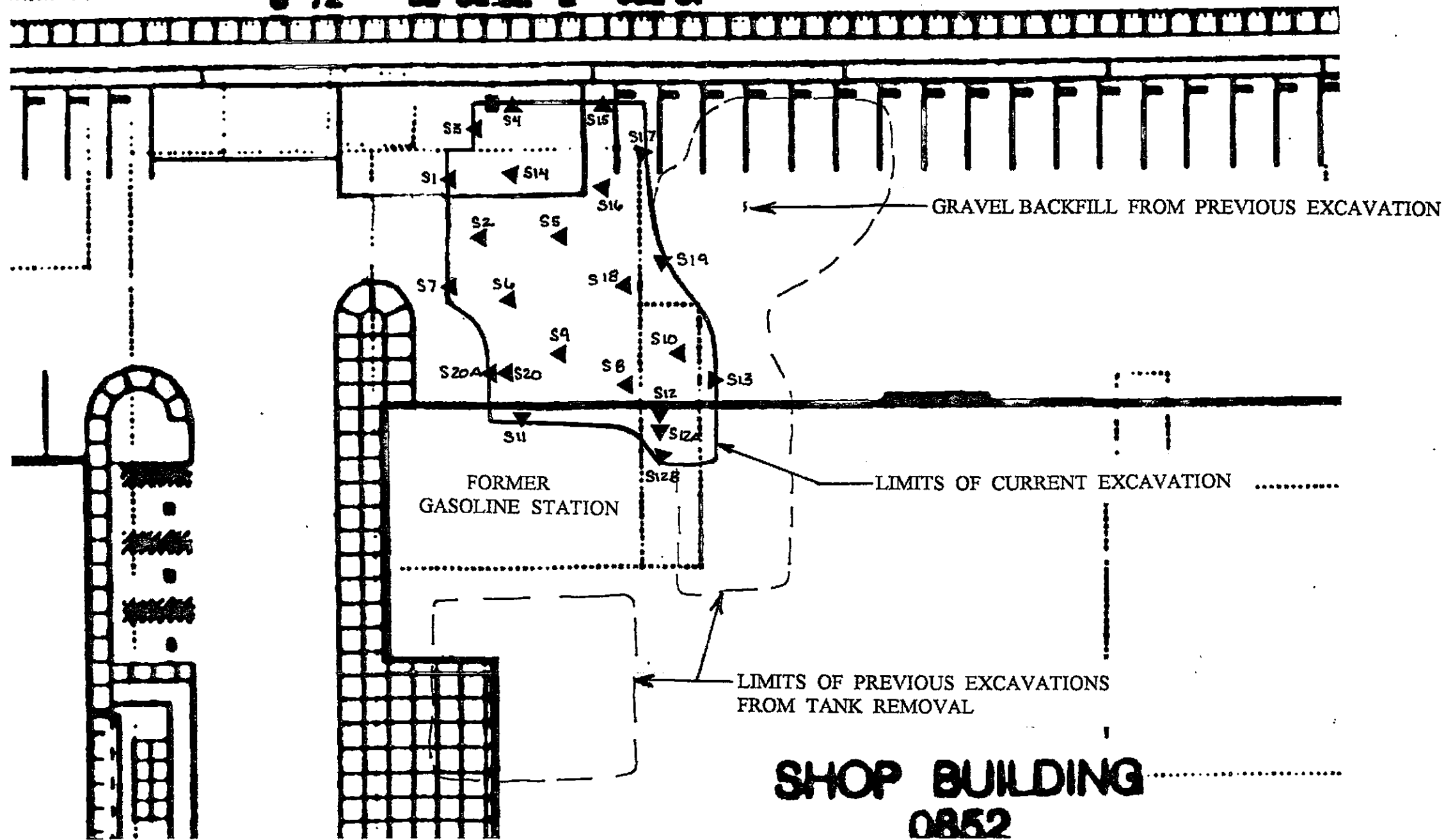
PROPERTY CORNER

PHASE II EXCAVATION PLAN
FIGURE 7

WEST GRAND AVENUE

WEST GRAND AVENUE

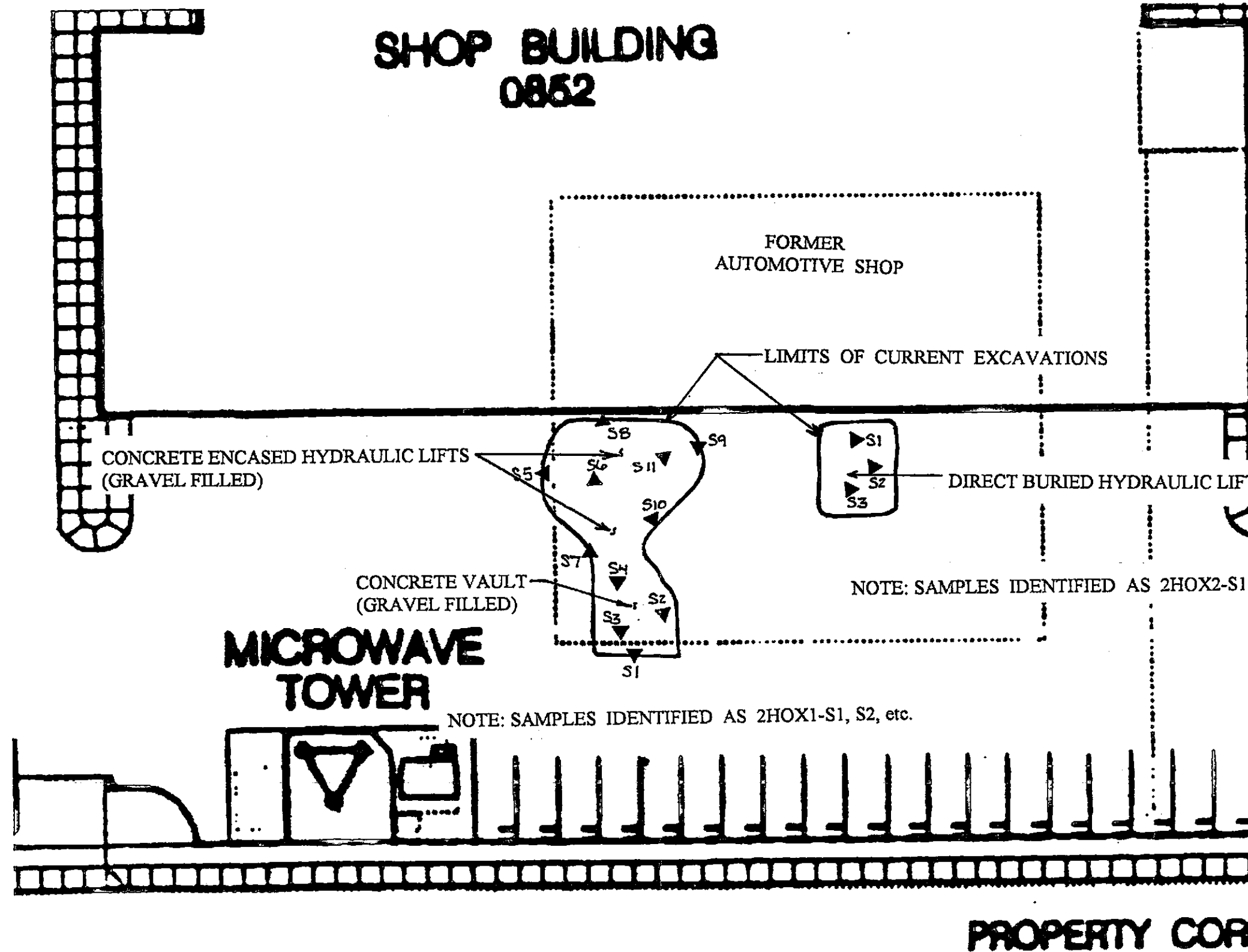
672' 00" 89° 30.82' E 609.37'



FORMER GASOLINE STATION
SAMPLE LOCATION PLAN
FIGURE 8

NOTE: SAMPLES IDENTIFIED AS 20X1-S1, S2, etc.

GeoPlexus, Inc.



FORMER AUTOMOTIVE SHOP
SAMPLE LOCATION PLAN
FIGURE 9

APPENDIX A

McCAMPBELL ANALYTICAL
DHS CERTIFICATION DOCUMENTS

DEPARTMENT OF HEALTH SERVICES

2151 BERKELEY WAY
BERKELEY, CA 94704-1011
(510)540-2800

April 29, 1996



Edward Hamilton
McCampbell Analytical, Inc.
110 2nd. Avenue, South, #D7
Pacheco, CA 94533

Certificate No.: 1644

Dear Mr. Hamilton:

This is to advise you that the laboratory named above has been certified as an environmental testing laboratory pursuant to the provisions of the California Environmental Laboratory Improvement Act of 1988 (Health and Safety Code, Division 1, Part 2, Chapter 7.5, commencing with Section 1010).

The fields of testing for which this laboratory has been certified under this Act are indicated in the enclosed "List of Approved Fields of Testing and Analytes." Certification shall remain in effect until October 31, 1997 unless revoked. This certificate is subject to an annual fee as prescribed by Section 1017(a), Health and Safety Code, on the anniversary date of the certificate.

Please note that your laboratory is required to notify the Environmental Laboratory Accreditation Program of any major changes in the laboratory such as the transfer of ownership, change of laboratory director, change in location, or structural alterations which may affect adversely the quality of analyses (Section 1014(b), California Health & Safety Code).

Please note that the new regulations pertaining to environmental laboratories were adopted on December 5, 1994 and may be found in the California Code of Regulations, Title 22, Division 4, Chapter 19, Sections 64801 through 64827.

Your continued cooperation is essential in order to establish a reputation for the high quality of the data produced by environmental laboratories certified by the State of California.

If you have additional questions, please contact Nelson Lan at (510) 540-2800.

Sincerely,

A handwritten signature in cursive script that reads "George C. Kulasingam".

George C. Kulasingam, Ph.D., Manager
Environmental Laboratory
Accreditation Program

Enclosure

ENVIRONMENTAL LABORATORY ACCREDITATION/REGISTRATION
List of Approved Fields of Testing and Analytes

McCampbell Analytical, Inc.
110 2nd Avenue South, #07
Pacheco, CA

TELEPHONE No: (510) 798-1620
CALIFORNIA COUNTY: Contra Costa

CERTIFICATE NUMBER: 1644
EXPIRATION DATE: 10/31/97

| | | | |
|--|---|---------|---|
| <u>1 Microbiology of Drinking Water and Wastewater (-----)</u> | | | |
| 1.1 | Total Coliforms in Drinking Water by Multiple Tube Fermentation | ----- | N |
| 1.2 | Fecal Coliforms/E. Coli in Drinking Water by MTF | ----- | N |
| 1.3 | Total Coliforms in Drinking Water by Membrane Filter Technics | ----- | N |
| 1.4 | Fecal Coliforms/E. Coli in Drinking Water by Membrane Filter Technics | ----- | N |
| 1.5 | Total Coliforms and E. Coli in Drinking Water by MMO-MUG | ----- | N |
| 1.6 | Total Coliforms in Drinking Water by Clark's Presence/Absence | ----- | N |
| 1.7 | Fecal Coliforms/E. Coli in Drinking Water by Clark's Presence/Absence | ----- | N |
| 1.8 | Heterotrophic Plate Count | ----- | N |
| 1.9 | Total Coliforms in Wastewater by Multiple Tube Fermentation | ----- | N |
| 1.10 | Fecal Coliforms in Wastewater by MTF | ----- | N |
| 1.11 | Total Coliforms in Wastewater by Membrane Filter Technics | ----- | N |
| 1.12 | Fecal Coliforms in Wastewater by Membrane Filter Technics | ----- | N |
| 1.13 | Fecal Streptococci or Enterococci by Multiple Tube Technics | ----- | N |
| 1.14 | Fecal Streptococci or Enterococci by Membrane Filter Technics | ----- | N |
| <u>2 Inorganic Chemistry and Physical Properties of Drinking Water excluding Toxic Chemical Elements (-----)</u> | | | |
| 2.1 | Alkalinity | ----- N | |
| 2.2 | Calcium | ----- N | |
| 2.3 | Chloride | ----- N | |
| 2.4 | Corrosivity | ----- N | |
| 2.5 | Fluoride | ----- N | |
| 2.6 | Hardness | ----- N | |
| 2.7 | Magnesium | ----- N | |
| 2.8 | MBAS | ----- N | |
| 2.9 | Nitrate | ----- N | |
| 2.10 | Nitrite | ----- N | |
| 2.11 | Sodium | ----- N | |
| 2.12 | Sulfate | ----- N | |
| 2.13 | Total Filterable Residue and Conductivity | ----- N | |
| 2.14 | Iron (Colorimetric Methods Only) | ----- N | |
| 2.15 | Manganese (Colorimetric Methods Only) | ----- N | |
| 2.16 | Phosphate, ortho | ----- N | |
| 2.17 | Silica (Colorimetric Methods Only) | ----- N | |
| 2.18 | Cyanide | ----- N | |
| <u>3 Analysis of Toxic Chemical Elements in Drinking Water (-----)</u> | | | |
| 3.1 | Arsenic | ----- N | |
| 3.2 | Barium | ----- N | |
| 3.3 | Cadmium | ----- N | |
| 3.4 | Chromium, total | ----- N | |
| 3.5 | Copper | ----- N | |
| 3.6 | Iron | ----- N | |
| 3.7 | Lead | ----- N | |
| 3.8 | Manganese | ----- N | |
| 3.9 | Mercury | ----- N | |
| 3.10 | Selenium | ----- N | |
| 3.11 | Silver | ----- N | |
| 3.12 | Zinc | ----- N | |
| 3.13 | Aluminum | ----- N | |
| 3.14 | Asbestos | ----- N | |
| 3.15 | EPA Method 200.7 | ----- N | |
| 3.16 | EPA Method 200.8 (Unregulated Elements and Lead Only) | ----- N | |
| 3.17 | Antimony | ----- N | |
| 3.18 | Beryllium | ----- N | |
| 3.19 | Nickel | ----- N | |
| 3.20 | Thallium | ----- N | |
| <u>4 Organic Chemistry of Drinking Water (measurement by GC/MS combination) (-----)</u> | | | |
| 4.1 | EPA Method 501.3 | ----- | N |
| 4.2 | EPA Method 524.2 | ----- | N |
| 4.3 | EPA Method 525 | ----- | N |
| 4.4 | EPA Method 513 | ----- | N |
| <u>5 Organic Chemistry of Drinking Water (excluding measurements by GC/MS combination) (-----)</u> | | | |
| 5.1 | EPA Method 501.1 | ----- N | |
| 5.2 | EPA Method 501.2 | ----- N | |
| 5.3 | EPA Method 502.1 | ----- N | |
| 5.4 | EPA Method 502.2 | ----- N | |
| 5.5 | EPA Method 503.1 | ----- N | |
| 5.6 | EPA Method 504 | ----- N | |
| 5.7 | EPA Method 505 | ----- N | |
| 5.8 | EPA Method 506 | ----- N | |
| 5.9 | EPA Method 507 | ----- N | |
| 5.10 | EPA Method 508 | ----- N | |
| 5.11 | EPA Method 508A | ----- N | |
| 5.12 | EPA Method 510.1 | ----- N | |
| 5.13 | EPA Method 515.1 | ----- N | |
| 5.14 | EPA Method 531.1 | ----- N | |
| 5.15 | EPA Method 547 | ----- N | |
| 5.16 | EPA Method 548 | ----- N | |
| 5.17 | EPA Method 549 | ----- N | |
| 5.18 | EPA Method 550 | ----- N | |
| 5.19 | EPA Method 550.1 | ----- N | |
| 5.20 | EPA Method 551 | ----- N | |
| 5.21 | EPA Method 552 | ----- N | |

6 Radiochemistry (-----)

| | | | | | | | |
|------|--------------------------------|-------|---|------|--|-------|---|
| 6.1 | Gross Alpha and Beta Radiation | ---- | N | 6.11 | Gross Alpha by Co-precipitation | ----- | N |
| 6.2 | Total Radium | ----- | N | 6.12 | Radium 228 | ----- | N |
| 6.3 | Radium 226 | ----- | N | 6.13 | Radioactive Iodine | ----- | N |
| 6.4 | Uranium | ----- | N | 6.14 | Gross Alpha & Beta in Hazardous Wastes | -- | N |
| 6.5 | Radon 222 | ----- | N | 6.15 | Alpha Emitting Radium Isotopes | | |
| 6.6 | Radioactive Cesium | ----- | N | | in Haz. Wastes | ----- | N |
| 6.7 | Iodine 131 | ----- | N | 6.16 | Radium 228 in Hazardous Wastes | ----- | N |
| 6.8 | Radioactive Strontium | ----- | N | | | | |
| 6.9 | Tritium | ----- | N | | | | |
| 6.10 | Gamma and Photon Emitters | ----- | N | | | | |

7 Shellfish Sanitation (-----)

| | | | |
|-----|-----------------------------|-------|---|
| 7.1 | Shellfish meat Microbiology | ----- | N |
| 7.2 | Paralytic Shellfish Poison | ----- | N |
| 7.3 | Domoic Acid | ----- | N |

8 Aquatic Toxicity Bioassays (-----)

| | | | |
|------|---|-------|---|
| 8.1 | Hazardous Waste Aquatic Toxicity Bioassay (Title 22, CCR, 66261.24(a)(6)) | ----- | N |
| 8.2 | Wastewater Testing According to Kopperdahl (1976) using Freshwater Fish. | ----- | N |
| 8.3 | Wastewater Testing According to EPA/600/4-85/013 using Freshwater and/or Marine Organisms | ----- | N |
| 8.4 | Wastewater Testing by EPA Method 1000.0 | ----- | N |
| 8.5 | Wastewater Testing by EPA Method 1002.0 | ----- | N |
| 8.6 | Wastewater Testing by EPA Method 1003.0 | ----- | N |
| 8.7 | Wastewater Testing by EPA Method 1006 | ----- | N |
| 8.8 | Wastewater Testing by EPA Method 1007 | ----- | N |
| 8.9 | Wastewater Testing by EPA Method 1009 | ----- | N |
| 8.10 | Wastewater Testing According to Anderson, et. al. (1990) using Giant Kelp (<i>Macrocystis pyrifera</i>) | -- | N |
| 8.11 | Wastewater Testing According to Anderson, et. al. (1990) using Red Abalone (<i>Haliotis rufescens</i>) | --- | N |
| 8.12 | Wastewater Testing According to Dinnel and Stober (1987) using Purple Sea Urchin (<i>Strongylocentrotus purpuratus</i>) | ----- | N |
| 8.13 | Wastewater Testing According to Dinnel and Stober (1987) using Red Sea Urchin (<i>Strongylocentrotus franciscanus</i>) | ----- | N |
| 8.14 | Wastewater Testing According to Dinnel and Stober (1987) using Sand Dollar (<i>Dendraster excentricus</i>) | ----- | N |
| 8.15 | Wastewater Testing According to procedure E 724-89 (ASTM, 1989) using Pacific Oyster (<i>Crassostrea gigas</i>) | ----- | N |
| 8.16 | Wastewater Testing According to procedure E 724-89 (ASTM, 1989) using California Bay Mussel (<i>Mytilus edulis</i>) | ----- | N |
| 8.17 | Wastewater Testing According to Standard Methods (APHA, 1989) using an alga (<i>Skeletonema costatum</i>) | ----- | N |
| 8.18 | Wastewater Testing According to EPA/600/4-90/027 using Freshwater and/or Marine Organisms | ----- | N |

9 Physical Properties Testing of Hazardous Waste (06-24-92)

| | | | |
|-----|--|-------|---|
| 9.1 | Ignitability by Flashpoint determination (Title 22, CCR, 66261.21) | ----- | Y |
| 9.2 | Corrosivity - pH determination (Title 22, CCR, 66261.22) | ----- | Y |
| 9.3 | Corrosivity - Corrosivity towards steel (Title 22, CCR, 66261.22) | ----- | N |
| 9.4 | Reactivity (Title 22, CCR, 66261.23) | ----- | Y |

10 Inorganic Chemistry and Toxic Chemical Elements of Hazardous Waste

| | | | | | | | |
|------|-----------------|-------|---|-------|----------------|-------|---|
| 10.1 | Antimony | | | 10.7 | Cobalt | | |
| | 7040(-----) | ----- | N | | 7200(05-21-93) | ----- | Y |
| | 7041(-----) | ----- | N | | 7201(-----) | ----- | N |
| 10.2 | Arsenic | | | 10.8 | Copper | | |
| | 7060(05-21-93) | ----- | Y | | 7210(05-21-93) | ----- | Y |
| | 7061(07-26-94) | ----- | Y | | 7211(-----) | ----- | N |
| 10.3 | Barium | | | 10.9 | Lead | | |
| | 7080(-----) | ----- | N | | 7420(05-21-93) | ----- | Y |
| | 7081(-----) | ----- | N | | 7421(05-21-93) | ----- | Y |
| 10.4 | Beryllium | | | 10.10 | Mercury | | |
| | 7090(05-21-93) | ----- | Y | | 7470(07-26-94) | ----- | Y |
| | 7091(05-21-93) | ----- | Y | | 7471(07-26-94) | ----- | Y |
| 10.5 | Cadmium | | | 10.11 | Molybdenum | | |
| | 7130(05-21-93) | ----- | Y | | 7480(-----) | ----- | N |
| | 7131(-----) | ----- | N | | 7481(-----) | ----- | N |
| 10.6 | Chromium, total | | | 10.12 | Nickel | | |
| | 7190(-----) | ----- | N | | 7520(05-21-93) | ----- | Y |
| | 7191(-----) | ----- | N | | | | |

| | | | |
|---------------------|------------------------|---------------------------------|------------------------|
| 10.13 Selenium | 7740(05-21-93) ----- Y | 10.19 Cyanide | 9010(06-24-92) ----- Y |
| | 7741(07-26-94) ----- Y | 10.20 Fluoride | 300.0(-----) ----- N |
| 10.14 Silver | 7760(05-21-93) ----- Y | | 340.1(-----) ----- N |
| | 7761(05-21-93) ----- Y | | 340.2(-----) ----- N |
| 10.15 Thallium | 7840(05-21-93) ----- Y | | 340.3(-----) ----- N |
| | 7841(05-21-93) ----- Y | 10.21 Sulfide | 9030(-----) ----- N |
| 10.16 Vanadium | 7910(-----) ----- N | 10.22 Total Organic Lead | (05-21-93) ----- Y |
| | 7911(-----) ----- N | 10.23 EPA Method 6010(07-26-94) | ----- Y |
| 10.17 Zinc | 7950(05-21-93) ----- Y | 10.24 EPA Method 6020(-----) | ----- N |
| | 7951(-----) ----- N | | |
| 10.18 Chromium (VI) | 7195(-----) ----- N | | |
| | 7196(06-24-92) ----- Y | | |
| | 7197(-----) ----- N | | |
| | 7198(-----) ----- N | | |

11 Extraction Tests of Hazardous Waste (06-24-92)

| | |
|---|---------|
| 11.1 California Waste Extraction Test (WET) (Title 22, CCR, 66261.100, Appendix II) | ----- Y |
| 11.2 Extraction Procedure Toxicity | ----- Y |
| 11.3 Toxicity Characteristic Leaching Procedure (TCLP) All Classes | ----- Y |
| 11.4 Toxicity Characteristic Leaching Procedure (TCLP) Inorganics Only | ----- N |
| 11.5 Toxicity Characteristic Leaching Procedure (TCLP) Extractables Only | ----- N |
| 11.6 Toxicity Characteristic Leaching Procedure (TCLP) Volatiles Only | ----- N |

12 Organic Chemistry of Hazardous Waste (measurement by GC/MS combination)

| | |
|--------------------------------|---------|
| 12.1 EPA Method 8240(08-04-95) | ----- Y |
| 12.2 EPA Method 8250(-----) | ----- N |
| 12.3 EPA method 8270(-----) | ----- N |
| 12.4 EPA Method 8280(-----) | ----- N |
| 12.5 EPA Method 8290(-----) | ----- N |
| 12.6 EPA Method 8260(08-04-95) | ----- Y |

13 Organic Chemistry of Hazardous Waste (excluding measurements by GC/MS combination)

| | | | |
|--------------------------------|---------|------------------------------------|---------|
| 13.1 EPA Method 8010(02-10-93) | ----- Y | 13.13 EPA Method 8310(-----) | ----- N |
| 13.2 EPA Method 8015(08-04-95) | ----- Y | 13.14 EPA Method 632 (-----) | ----- N |
| 13.3 EPA Method 8020(10-07-91) | ----- Y | 13.15 Total Petroleum Hydrocarbons | |
| 13.4 EPA Method 8030(-----) | ----- N | (LUFT Manual) (10-07-91) | ----- Y |
| 13.5 EPA Method 8040(-----) | ----- N | 13.16 EPA Method 8011(-----) | ----- N |
| 13.6 EPA Method 8060(-----) | ----- N | 13.17 EPA Method 8021(-----) | ----- N |
| 13.7 EPA Method 8080(08-04-95) | ----- Y | 13.18 EPA Method 8070(-----) | ----- N |
| 13.8 EPA Method 8090(-----) | ----- N | 13.19 EPA Method 8110(-----) | ----- N |
| 13.9 EPA Method 8100(-----) | ----- N | 13.20 EPA Method 8141(-----) | ----- N |
| 13.10 EPA Method 8120(-----) | ----- N | 13.21 EPA Method 8330(-----) | ----- N |
| 13.11 EPA Method 8140(-----) | ----- N | | |
| 13.12 EPA Method 8150(-----) | ----- N | | |

14 Bulk Asbestos Analysis (-----)

| | |
|---|---------|
| 14.1 1% or Greater Asbestos Concentrations (Title 22, CCR, 66261.24(a)(2)(A)) | ----- N |
|---|---------|

15 Substances Regulated Under the California Safe Drinking Water and Toxic Enforcement Act (Proposition 65) and Not Included in Other Listed Groups.

16 Wastewater Inorganic Chemistry, Nutrients and Demand (10-07-91)

| | | | |
|--------------------------------|---------|--|---------|
| 16.1 Acidity | ----- N | 16.13 Cyanide amenable to Chlorination | ----- N |
| 16.2 Alkalinity | ----- N | 16.14 Fluoride | ----- N |
| 16.3 Ammonia | ----- N | 16.15 Hardness | ----- N |
| 16.4 Biochemical Oxygen Demand | ----- N | 16.16 Kjeldahl Nitrogen | ----- N |
| 16.5 Boron | ----- Y | 16.17 Magnesium | ----- Y |
| 16.6 Bromide | ----- N | 16.18 Nitrate | ----- N |
| 16.7 Calcium | ----- Y | 16.19 Nitrite | ----- N |
| 16.8 cBOD | ----- N | 16.20 Oil and Grease | ----- Y |
| 16.9 Chemical Oxygen Demand | ----- N | 16.21 Organic Carbon | ----- N |
| 16.10 Chloride | ----- N | 16.22 Oxygen, Dissolved | ----- N |
| 16.11 Chlorine Residual, total | ----- N | | |
| 16.12 Cyanide | ----- N | | |

| | | | | | |
|-------|------------------------------------|---|-------|-------------------------------|---|
| 16.23 | pH | Y | 16.39 | Surfactants (MBAS) | N |
| 16.24 | Phenols | N | 16.40 | Tannin and Lignin | N |
| 16.25 | Phosphate, ortho | N | 16.41 | Turbidity | N |
| 16.26 | Phosphorus, total | N | 16.42 | Iron (Colorimetric Only) | N |
| 16.27 | Potassium | Y | 16.43 | Manganese (Colorimetric Only) | N |
| 16.28 | Residue, Total | Y | 16.44 | Total Recoverable | |
| 16.29 | Residue, Filterable (TDS) | Y | | Petroleum Hydrocarbons | Y |
| 16.30 | Residue, Nonfilterable (TSS) | Y | 16.45 | Total Organic Halides | N |
| 16.31 | Residue, Settleable (SS) | N | | | |
| 16.32 | Residue, Volatile | N | | | |
| 16.33 | Silica | Y | | | |
| 16.34 | Sodium | Y | | | |
| 16.35 | Specific Conductance | Y | | | |
| 16.36 | Sulfate | N | | | |
| 16.37 | Sulfide (includes total & soluble) | N | | | |
| 16.38 | Sulfite | N | | | |

17 Toxic Chemical Elements in Wastewater (05-21-93)

| | | | | | |
|-------|-----------------|---|-------|------------------|---|
| 17.1 | Aluminum | N | 17.18 | Nickel | Y |
| 17.2 | Antimony | N | 17.19 | Osmium | N |
| 17.3 | Arsenic | Y | 17.20 | Palladium | N |
| 17.4 | Barium | N | 17.21 | Platinum | N |
| 17.5 | Beryllium | Y | 17.22 | Rhodium | N |
| 17.6 | Cadmium | Y | 17.23 | Ruthenium | N |
| 17.7 | Chromium (VI) | Y | 17.24 | Selenium | Y |
| 17.8 | Chromium, total | Y | 17.25 | Silver | Y |
| 17.9 | Cobalt | Y | 17.26 | Strontium | N |
| 17.10 | Copper | Y | 17.27 | Thallium | Y |
| 17.11 | Gold | N | 17.28 | Tin | N |
| 17.12 | Iridium | N | 17.29 | Titanium | N |
| 17.13 | Iron | N | 17.30 | Vanadium | N |
| 17.14 | Lead | Y | 17.31 | Zinc | Y |
| 17.15 | Manganese | N | 17.32 | EPA Method 200.7 | Y |
| 17.16 | Mercury | Y | 17.33 | EPA Method 200.8 | N |
| 17.17 | Molybdenum | N | 17.34 | DCP | N |
| | | | 17.35 | Asbestos | N |

18 Organic Chemistry of Wastewater (measurements by GC/MS combination (08-04-95))

| | | | | | |
|------|-----------------|---|--|--|--|
| 18.1 | EPA Method 624 | Y | | | |
| 18.2 | EPA Method 625 | N | | | |
| 18.3 | EPA Method 1613 | N | | | |
| 18.4 | EPA Method 1625 | N | | | |
| 18.5 | EPA Method 613 | N | | | |

19 Organic Chemistry of Wastewater (excluding measurements by GC/MS combination) (06-24-92)

| | | | | | |
|------|----------------|---|-------|----------------|---|
| 19.1 | EPA Method 601 | Y | 19.8 | EPA Method 608 | Y |
| 19.2 | EPA Method 602 | Y | 19.9 | EPA Method 609 | N |
| 19.3 | EPA Method 603 | N | 19.10 | EPA Method 610 | N |
| 19.4 | EPA Method 604 | N | 19.11 | EPA Method 611 | N |
| 19.5 | EPA Method 605 | N | 19.12 | EPA Method 632 | N |
| 19.6 | EPA Method 606 | N | 19.13 | EPA Method 619 | N |
| 19.7 | EPA Method 607 | N | | | |

20 Inorganic Chemistry and Toxic Chemical Elements of Pesticide Residues in Food (-----)

| | | | | | |
|------|--|---|--|--|--|
| 20.1 | Processed Foods by One of the Following Methods | | | | |
| | Atomic Absorption Spectrophotometry | N | | | |
| | Inductively Coupled Plasma Atomic Emission Spectrophotometry | N | | | |
| | Inductively Coupled Plasma/Mass Spectrometry | N | | | |
| | Colorimetry | N | | | |
| 20.2 | Raw Commodities by One of the Following Methods | | | | |
| | Atomic Absorption Spectrophotometry | N | | | |
| | Inductively Coupled Plasma Atomic Emission Spectrophotometry | N | | | |
| | Inductively Coupled Plasma/Mass Spectrometry | N | | | |
| | Colorimetric | N | | | |
| 20.3 | Dairy Products by One of the Following Methods | | | | |
| | Atomic Absorption Spectrophotometry | N | | | |
| | Inductively Coupled Plasma Atomic Emission Spectrophotometry | N | | | |
| | Inductively Coupled Plasma/Mass Spectrometry | N | | | |
| | Colorimetry | N | | | |

| | | |
|-------|---|---|
| 20.4 | Feed Products by One of the Following Methods | |
| | Atomic Absorption Spectrophotometry | N |
| | Inductively Coupled Plasma Atomic Emission Spectrophotometry | N |
| | Inductively Coupled Plasma/Mass Spectrometry | N |
| | Colorimetry | N |
| 21 | <u>Organic Chemistry of Pesticide Residues in Food (measurements by GC/MS) (-----)</u> | |
| 21.1 | Gas Chromatographic/Mass Spectrometric Methods in Processed Foods | N |
| 21.2 | Gas Chromatographic/Mass Spectrometric Methods in Raw Commodities | N |
| 21.3 | Gas Chromatographic/Mass Spectrometric Methods in Dairy Products | N |
| 21.4 | Gas Chromatographic/Mass Spectrometric Methods in Feed Products | N |
| 22 | <u>Organic Chemistry of Pesticide Residues in Food (Excluding Measurement by GC/MS Combination) (-----)</u> | |
| 22.1 | Halogenated Compounds in Processed Foods by One of the Following Methods | |
| | Gas Chromatography | N |
| | High Pressure Liquid Chromatography | N |
| | Liquid Chromatography/Mass Spectrometry | N |
| 22.2 | Organophosphorous Compounds in Processed Foods by One of the Following Methods | |
| | Gas Chromatography | N |
| | High Pressure Liquid Chromatography | N |
| | Liquid Chromatography/Mass Spectrometry | N |
| 22.3 | Carbamates in Processed Foods by One of the Following Methods | |
| | Gas Chromatography | N |
| | High Pressure Liquid Chromatography | N |
| | Liquid Chromatography/Mass Spectrometry | N |
| 22.4 | Halogenated Compounds in Raw Commodities by One of the Following Methods | |
| | Gas Chromatography | N |
| | High Pressure Liquid Chromatography | N |
| | Liquid Chromatography/Mass Spectrometry | N |
| 22.5 | Organophosphorous Compounds in Raw Commodities by One of the Following Methods | |
| | Gas Chromatography | N |
| | High Pressure Liquid Chromatography | N |
| | Liquid Chromatography/Mass Spectrometry | N |
| 22.6 | Carbamates in Raw Commodities by One of the Following Methods | |
| | Gas Chromatography | N |
| | High Pressure Liquid Chromatography | N |
| | Liquid Chromatography/Mass Spectrometry | N |
| 22.7 | Halogenated Compounds in Dairy Products by One of the Following Methods | |
| | Gas Chromatography | N |
| | High Pressure Liquid Chromatography | N |
| | Liquid Chromatography/Mass Spectrometry | N |
| 22.8 | Organophosphorous Compounds in Dairy Products by One of the Following Methods | |
| | Gas Chromatography | N |
| | High Pressure Liquid Chromatography | N |
| | Liquid Chromatography/Mass Spectrometry | N |
| 22.9 | Carbamates in Dairy Products by One of the Following Methods | |
| | Gas Chromatography | N |
| | High Pressure Liquid Chromatography | N |
| | Liquid Chromatography/Mass Spectrometry | N |
| 22.10 | Halogenated Compounds in Feed Products by One of the Following Methods | |
| | Gas Chromatography | N |
| | High Pressure Liquid Chromatography | N |
| | Liquid Chromatography/Mass Spectrometry | N |
| 22.11 | Organophosphorous Compounds in Feed Products by One of the Following Methods | |
| | Gas Chromatography | N |
| | High Pressure Liquid Chromatography | N |
| | Liquid Chromatography/Mass Spectrometry | N |
| 22.12 | Carbamates in Feed Products by One of the Following Methods | |
| | Gas Chromatography | N |
| | High Pressure Liquid Chromatography | N |
| | Liquid Chromatography/Mass Spectrometry | N |

APPENDIX B

**PHASE II TEST PIT
ANALYTICAL TEST DATA**

8594AGR317

| PROJECT NUMBER | | PROJECT NAME | | | | Number of Containers | Type of Containers | Type of Analysis | | | | | | | Condition of Samples | Initial | |
|--|--------|---|------------|------|----------------------------|---|--------------------|------------------|---|-----------------------------|------------------|---------------------------------------|-----|--|----------------------|---------|--|
| C95041 | | EDMUND / WALSH ADSLINE MAINT. CENTER | | | | | | | | TPH _g /GIBS/INTK | TPH _d | PIL 5420 | BOD | | | | |
| Send Report Attention of: | | | Report Due | | Verbal Due | | | | | | | | | | | | |
| DAVID GLICK | | | / / | | / / | | | | | | | | | | | | |
| Sample Number | Date | Time | Comp | Grab | Station Location | | | | | | | | | | | | |
| EP-51 | 5/6/97 | 816 | | / | ELEVATOR PIT -3' | 1CA | 6" BRASS TUBES | / | / | / | | | | | | 76133 | |
| EP-52 | | 820 | | / | ELEVATOR PIT -7' | | | / | / | / | | | | | | 76134 | |
| PIT1-51 | | 838 | | / | SW CORNER OF 913 STA -3' | | | / | / | / | | | | | | 76135 | |
| PIT1-52 | | 838 | | / | SW CORNER OF 913 STA -7' | | | / | / | / | | | | | | 76136 | |
| GRASSAL-51 | | 842 | | / | SE CORNER OF 913 STA -3' | | | / | / | / | | | ✓ | | | 76137 | |
| DIPTNK-51 | | 858 | | / | DIP TANK -3' | | | / | / | / | | | | | | 76138 | |
| DIPTNK-52 | | 904 | | / | DIP TANK -7' | | | / | / | / | | | | | | 76139 | |
| PIT2-51 | | 915 | | / | PIT -SVC -3' | | | / | / | / | | | | | | 76140 | |
| PIT2-52 | | 918 | | / | PIT -SVC -7' | | | / | / | / | | | | | | 76141 | |
| AUTO SHOP-51 | | 925 | | / | NE CORNER OF AUTO SHOP -3' | | | / | / | / | | | | | | 76142 | |
| AUTO SHOP-52 | | 930 | | / | NE CORNER OF AUTO SHOP -7' | | | / | / | / | | | ✓ | | | 76143 | |
| Relinquished by: (Signature) <i>[Signature]</i> Date/Time 5/6/97 11:41 | | | | | | Received by: (Signature) <i>Nude Bicca</i> Date/Time 5-6-97 11:41 | | | | | | Remarks: 24 HOUR RUSH | | | | | |
| Relinquished by: (Signature) | | | | | | Received by: (Signature) | | | | | | Date/Time | | | | | |
| Relinquished by: (Signature) | | | | | | Received by: (Signature) | | | | | | Date/Time | | | | | |
| | | | | | | ICE/T ✓ | | | | | | PRESERVATIVE APPROPRIATE CONTAINERS ✓ | | | | | |
| | | | | | | GOOD CONDITION ✓ | | | | | | LEAD SPACE ARSENT ✓ | | | | | |

McCAMPBELL ANALYTICAL INC.

110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

| | | |
|--|---|--------------------------|
| Geo Plexus, Inc. 1900 Wyatt Drive, Suite 1 Santa Clara, CA 95054 | Client Project ID:# C95041; EBMUD/Walsh | Date Sampled: 05/06/97 |
| | | Date Received: 05/06/97 |
| | Client Contact: David Glick | Date Extracted: 05/06/97 |
| | Client P.O: | Date Analyzed: 05/06/97 |

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with Methyl tert-Butyl Ether* & BTEX*

EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030)

| Lab ID | Client ID | Matrix | TPH(g) ⁺ | MTBE | Benzene | Toluene | Ethylbenzene | Xylenes | % Rec. Surrogate |
|--|--------------|--------|---------------------|------|---------|---------|--------------|---------|------------------|
| 76133 | EP-S1 | S | 3.9,j | ND | 0.016 | 0.016 | 0.010 | 0.025 | 102 |
| 76134 | EP-S2 | S | 21,b,j | ND | 0.010 | 0.045 | 0.061 | 0.10 | 96 |
| 76135 | Pit 1-S1 | S | 47,b,j | ND | 0.026 | ND | 0.25 | 1.3 | 105 |
| 76136 | Pit 1-S2 | S | 14,b,j | ND | 0.030 | 0.007 | 0.017 | 0.054 | 101 |
| 76137 | Gas Sta 1-S1 | S | 2900,j | 6.2 | 16 | 8.5 | 7.5 | 13 | 101 |
| 76138 | DIPTNK-S1 | S | ND | ND | ND | ND | ND | ND | 101 |
| 76139 | DIPTNK-S2 | S | ND | ND | ND | ND | ND | ND | 100 |
| 76140 | Pit 2-S1 | S | ND | ND | ND | ND | ND | ND | 101 |
| 76141 | Pit 2-S2 | S | 2.1,j | ND | ND | ND | ND | 0.007 | 104 |
| 76142 | Auto Shp-S1 | S | ND | ND | ND | ND | ND | ND | 100 |
| 76143 | Auto Shp-S2 | S | ND | ND | ND | ND | ND | ND | 101 |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| Reporting Limit unless otherwise stated; ND means not detected above the reporting limit | | W | 50 ug/L | 5.0 | 0.5 | 0.5 | 0.5 | 0.5 | |
| | | S | 1.0 mg/kg | 0.05 | 0.005 | 0.005 | 0.005 | 0.005 | |

* water and vapor samples are reported in ug/L, soil and sludge samples in mg/kg, and all TCLP extracts in mg/L

cluttered chromatogram; sample peak coelutes with surrogate peak

⁺ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant (aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~ 5 vol. % sediment; j) no recognizable pattern.

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| | | |
|--|---|--------------------------|
| Geo Plexus, Inc. 1900 Wyatt Drive, Suite 1 Santa Clara, CA 95054 | Client Project ID:# C95041; EBMUD/Walsh | Date Sampled: 05/06/97 |
| | | Date Received: 05/06/97 |
| | Client Contact: David Glick | Date Extracted: 05/06/97 |
| | Client P.O: | Date Analyzed: 05/06/97 |

Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel *

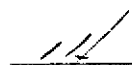
EPA methods modified 8015, and 3550 or 3510; California RWQCB (SF Bay Region) method GCFID(3550) or GCFID(3510)

| Lab ID | Client ID | Matrix | TPH(d) ⁺ | % Recovery Surrogate |
|--|-------------|--------|---------------------|----------------------|
| 76133 | EP-S1 | S | ND | 95 |
| 76134 | EP-S2 | S | 31,g | 103 |
| 76135 | Pit 1-S1 | S | 3.3,d | 95 |
| 76136 | Pit 1-S2 | S | 6.1,d | 100 |
| 76137 | Gas Sta1-S1 | S | 7000,d | 102 |
| 76138 | DIPTNK-S1 | S | ND | 96 |
| 76139 | DIPTNK-S2 | S | 2.4,b | 102 |
| 76140 | Pit 2-S1 | S | 9.1,g | 102 |
| 76141 | Pit 2-S2 | S | 1.3,b | 103 |
| 76142 | Auto Shp-S1 | S | ND | 103 |
| 76143 | Auto Shp-S2 | S | ND | 103 |
| | | | | |
| | | | | |
| | | | | |
| Reporting Limit unless otherwise stated; ND means not detected above the reporting limit | W | | 50 ug/L | |
| | S | | 1.0 mg/kg | |

* water samples are reported in ug/L, soil and sludge samples in mg/kg, and all TCLP and STLC extracts in mg/L

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) medium boiling point pattern that does not match diesel (?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~ 5 vol. % sediment.



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|--|---|--------------------------|
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| | | Date Received: 05/06/97 |
| | Client Contact: David Glick | Date Extracted: 05/06/97 |
| | Client P.O: | Date Analyzed: 05/06/97 |

Petroleum Oil & Grease (with Silica Gel Clean-up) *

EPA methods 413.1, 9070 or 9071; Standard Methods 5520 D/E&F or 503 D&E for solids and 5520 B&F or 503 A&E for liquids

| Lab ID | Client ID | Matrix | Oil & Grease * |
|--|-------------|----------|----------------|
| 76133 | EP-S1 | S | ND |
| 76134 | EP-S2 | S | 160 |
| 76135 | Pit 1-S1 | S | ND |
| 76136 | Pit 1-S2 | S | ND |
| 76137 | Gas Sta1-S1 | S | 2500 |
| 76138 | DIPTNK-S1 | S | ND |
| 76139 | DIPTNK-S2 | S | ND |
| 76140 | Pit 2-S1 | S | 380 |
| 76141 | Pit 2-S2 | S | ND |
| 76142 | Auto Shp-S1 | S | ND |
| 76143 | Auto Shp-S2 | S | ND |
| | | | |
| | | | |
| | | | |
| Reporting Limit unless otherwise stated; ND means not detected above the reporting limit | W | 5 mg/L | |
| | S | 50 mg/kg | |

* water samples are reported in mg/L and soil and sludge samples in mg/kg

h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~ 5vol. % sediment.

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| | | |
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| | | Date Received: 05/06/97 |
| | Client Contact: David Glick | Date Extracted: 05/06/97 |
| | Client P.O: | Date Analyzed: 05/06/97 |

Volatile Halocarbons

EPA method 601 or 8010

| Lab ID | 76137 | 76143 | |
|--|-----------------|-------------|--|
| Client ID | Gas Sta1-S1 | Auto Shp-S2 | |
| Matrix | S | S | |
| Compound | Concentration * | | |
| Bromodichloromethane | ND< 30 | ND | |
| Bromoform ^(b) | ND< 30 | ND | |
| Bromomethane | ND< 30 | ND | |
| Carbon Tetrachloride ^(c) | ND< 30 | ND | |
| Chlorobenzene | ND< 30 | ND | |
| Chloroethane | ND< 30 | ND | |
| 2-Chloroethyl Vinyl Ether ^(d) | ND< 30 | ND | |
| Chloroform ^(e) | ND< 30 | ND | |
| Chloromethane | ND< 30 | ND | |
| Dibromochloromethane | ND< 30 | ND | |
| 1,2-Dichlorobenzene | ND< 30 | ND | |
| 1,3-Dichlorobenzene | ND< 30 | ND | |
| 1,4-Dichlorobenzene | ND< 30 | ND | |
| Dichlorodifluoromethane | ND< 30 | ND | |
| 1,1-Dichloroethane | ND< 30 | ND | |
| 1,2-Dichloroethane | ND< 30 | ND | |
| 1,1-Dichloroethene | ND< 30 | ND | |
| cis 1,2-Dichloroethene | ND< 30 | ND | |
| trans 1,2-Dichloroethene | ND< 30 | ND | |
| 1,2-Dichloropropane | ND< 30 | ND | |
| cis 1,3-Dichloropropene | ND< 30 | ND | |
| trans 1,3-Dichloropropene | ND< 30 | ND | |
| Methylene Chloride ^(f) | ND< 30 | ND | |
| 1,1,2,2-Tetrachloroethane | ND< 30 | ND | |
| Tetrachloroethene | ND< 30 | ND | |
| 1,1,1-Trichloroethane | ND< 30 | ND | |
| 1,1,2-Trichloroethane | ND< 30 | ND | |
| Trichloroethene | ND< 30 | ND | |
| Trichlorofluoromethane | ND< 30 | ND | |
| Vinyl Chloride ^(g) | ND< 30 | ND | |
| % Recovery Surrogate | 108 | 103 | |
| Comments | j | | |

* water and vapor samples are reported in ug/L, soil and sludge samples in ug/kg and all TCLP extracts in ug/L.

Reporting limit unless otherwise stated: water/TCLP extracts, ND< 0.5ug/L; soil and sludge, ND< 5ug/kg

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

(b) tribromomethane; (c) tetrachloromethane; (d) (2-chloroethoxy) ethene; (e) trichloromethane; (f) dichloromethane; (g) chloroethene;

(i) liquid sample that contains greater than ~ 5 vol. % sediment; (j) sample diluted due to high organic content.

QC REPORT FOR HYDROCARBON ANALYSES

Date: 05/05/97-05/06/97

Matrix: Soil

| Analyte | Concentration (mg/kg) | | | Amount Spiked | % Recovery | | RPD |
|-----------------------|-----------------------|-------|-------|---------------|------------|-----|-----|
| | Sample (#74888) | MS | MSD | | MS | MSD | |
| TPH (gas) | 0.000 | 2.180 | 2.233 | 2.03 | 107 | 110 | 2.4 |
| Benzene | 0.000 | 0.218 | 0.212 | 0.2 | 109 | 106 | 2.8 |
| Toluene | 0.000 | 0.224 | 0.216 | 0.2 | 112 | 108 | 3.6 |
| Ethylbenzene | 0.000 | 0.212 | 0.212 | 0.2 | 106 | 106 | 0.0 |
| Xylenes | 0.000 | 0.628 | 0.624 | 0.6 | 105 | 104 | 0.6 |
| TPH (diesel) | 0 | 305 | 308 | 300 | 102 | 103 | 0.7 |
| TRPH (oil and grease) | 0.0 | 25.9 | 26.8 | 26 | 100 | 103 | 3.4 |

$$\% \text{ Rec.} = (\text{MS} - \text{Sample}) / \text{amount spiked} \times 100$$

$$\text{RPD} = (\text{MS} - \text{MSD}) / (\text{MS} + \text{MSD}) \times 2 \times 100$$

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QC REPORT FOR EPA 8010/8020/EDB

Date: 05/06/97

Matrix: Soil

| Analyte | Concentration (ug/kg) | | | | % Recovery | | RPD |
|-----------------|-----------------------|-----|-----|------------------|------------|-----|-----|
| | Sample (#74888) | MS | MSD | Amount Spiked | MS | MSD | |
| 1,1-DCE | 0 | 94 | 98 | 100 | 94 | 98 | 4.2 |
| Trichloroethene | 0 | 81 | 86 | 100 | 81 | 86 | 6.0 |
| EDB | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Chlorobenzene | 0 | 84 | 86 | 100 | 84 | 86 | 2.4 |
| Benzene | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Toluene | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Chlorobz (PID) | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

$$\% \text{ Rec.} = (\text{MS} - \text{Sample}) / \text{amount spiked} \times 100$$

$$\text{RPD} = (\text{MS} - \text{MSD}) / (\text{MS} + \text{MSD}) \times 2 \times 100$$

8594 AGR 317

| PROJECT NUMBER | | PROJECT NAME | | | | Number of Cntrs | Type of Containers | Type of Analysis | | | | | | Condition of Samples | Initial |
|---------------------------|--------|--|------------|------|----------------------------|-----------------|--------------------|--------------------------------|------------------|----------|-----|---------------------------------------|----------|----------------------|---------|
| C95041 | | EBMUD / WALSH ADSLINE MAINT. CENTER | | | | | | TPH ₅ / BTEX / INTX | TPH ₄ | PIC 5420 | BOD | TCLP BENZENE PUSH 5/13 RAM 5/19 | PCB 5/19 | | |
| Send Report Attention of: | | | Report Due | | Verbal Due | | | | | | | | | | |
| DAVID GLICK | | | / / | | / / | | | | | | | | | | |
| Sample Number | Date | Time | Comp | Grab | Station Location | | | | | | | | | | |
| EP-51 | 5/6/97 | 816 | | 1 | ELEVATOR PIT -3' | 1CA | 6" BUNDLED TUBES | - | - | - | | | | 76133 | |
| EP-52 | | 820 | | 1 | ELEVATOR PIT -7' | | | - | - | - | | | | 76134 | |
| PIT1-51 | | 838 | | 1 | SW CORNER OF 943 STA -3' | | | - | - | - | X | X | | 76135 | |
| PIT1-52 | | 838 | | 1 | SW CORNER OF 943 STA -7' | | | - | - | - | X | X | | 76136 | |
| CASSTAL-31 | | 842 | | 1 | SE CORNER OF 943 STA -3' | | | - | - | - | X | X | | 76137 | |
| DIPTNK-31 | | 858 | | 1 | DIP TANK -3' | | | - | - | - | X | X | | 76138 | |
| DIPTNK-52 | | 904 | | 1 | DIP TANK -7' | | | - | - | - | | | | 76139 | |
| PIT2-51 | | 915 | | 1 | PIT - SWC -3' | | | - | - | - | | | | 76140 | |
| PIT2-52 | | 918 | | 1 | PIT - SWC -7' | | | - | - | - | | | | 76141 | |
| AUTO SHP-31 | | 925 | | 1 | NE CORNER OF AUTO STOP -3' | | | - | - | - | | | | 76142 | |
| AUTO SHP-52 | | 930 | | 1 | NE CORNER OF AUTO STOP -7' | | | - | - | - | | | | 76143 | |

| | | | |
|------------------------------|--------------|--------------------------|--------------|
| Relinquished by: (Signature) | Date/Time | Received by: (Signature) | Date/Time |
| <i>[Signature]</i> | 5/6/97 11:41 | <i>N. Pica</i> | 5-6-97 11:41 |
| Relinquished by: (Signature) | Date/Time | Received by: (Signature) | Date/Time |
| | | | |
| Relinquished by: (Signature) | Date/Time | Received by: (Signature) | Date/Time |
| | | | |

Remarks: 24 HOUR RUSH

ICE/GOOD CONDITION / LEAD SPACE ABSENT

PRESERVATIVE APPROPRIATE CONTAINERS

VOL | DRG | METALS | OTHER

McCAMPBELL ANALYTICAL INC.

110 2nd Avenue South, #D7, Pacheco, CA 94553

Tele: 510-798-1620 Fax: 510-798-1622

| | | |
|--|---|--------------------------------|
| Geo Plexus, Inc. 1900 Wyatt Drive, Suite 1 Santa Clara, CA 95054 | Client Project ID:# C95041; EBMUD/Walsh | Date Sampled: 05/06/97 |
| | | Date Received: 05/06/97 |
| | Client Contact: David Glick | Date Extracted: 05/13-05/14/97 |
| | Client P.O: | Date Analyzed: 05/14/97 |

Benzene

EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030)

| Lab ID | Client ID | Matrix | Benzene | % Rec. Surrogate |
|--|-------------|---------|---------|------------------|
| 76135 | Pit 1-S1 | ZHETCLP | ND | 115 [#] |
| 76136 | Pit 1-S2 | ZHETCLP | ND | 103 |
| 76137 | Gas Sta1-S1 | ZHETCLP | 0.15 | 99 |
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| Reporting Limit unless otherwise stated; ND means not detected above the reporting limit | ZHETCLP | | 0.0005 | |
| | S | | 0.005 | |

* water and vapor samples are reported in ug/L, soil and sludge samples in mg/kg, and all TCLP extracts in mg/L

cluttered chromatogram; sample peak coelutes with surrogate peak

+ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~ 5 vol. % sediment; j) no recognizable pattern.

| | | |
|--|---|--------------------------|
| Geo Plexus, Inc. 1900 Wyatt Drive, Suite 1 Santa Clara, CA 95054 | Client Project ID:# C95041; EBMUD/Walsh | Date Sampled: 05/06/97 |
| | | Date Received: 05/06/97 |
| | Client Contact: David Glick | Date Extracted: 05/19/97 |
| | Client P.O: | Date Analyzed: 05/20/97 |

LUFT Metals*

EPA analytical methods 6010/200.7, 239.2*

| Lab ID | Client ID | Matrix | Extraction ^o | Cadmium | Chromium | Lead | Nickel | Zinc | % Rec. Surrogate |
|--|-----------|-----------|-------------------------|---------|----------|------|--------|------|------------------|
| 76135,36,37 | Comp.# 1 | S | TTLC | ND | 33 | 170 | 74 | 400 | 102 |
| 76133,38,40,42 | Comp.# 2 | S | TTLC | ND | 52 | 9.5 | 40 | 44 | 104 |
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| Reporting Limit unless otherwise stated; ND means not detected above the reporting limit | S | TTLC | 0.5 mg/kg | 0.5 | 3.0 | 2.0 | 1.0 | | |
| | W | TTLC | 0.005 mg/L | 0.005 | 0.005 | 0.05 | 0.05 | | |
| | --- | STLC,TCLP | 0.01 mg/L | 0.05 | 0.2 | 0.05 | 0.05 | | |

* soil samples and sludge are reported in mg/kg, and water samples and all STLC & TCLP extracts in mg/L

+ Lead is analysed using EPA method 6010 (ICP)for soils, STLC & TCLP extracts and method 239.2 (AA Furnace) for water samples

^o EPA extraction methods 1311(TCLP), 3010/3020(water,TTLC), 3040(organic matrices.TTLC), 3050(solids,TTLC); STLC from CA Title 22

surrogate diluted out of range; N/A means surrogate not applicable to this analysis

& reporting limit raised due matrix interference

i) liquid sample that contains greater than ~ 2 vol. % sediment; this sediment is extracted with the liquid, in accordance with EPA methodologies and can significantly effect reported metal concentrations.

QC REPORT FOR HYDROCARBON ANALYSES

Date: 05/14/97

Matrix: ZHETCLP

| Analyte | Concentration (mg/L) | | | Amount Spiked | % Recovery | | RPD |
|------------------------|----------------------|------|------|---------------|------------|------|-----|
| | Sample | MS | MSD | | MS | MSD | |
| TPH (gas) | 0.0 | 96.2 | 96.3 | 100.0 | 96.2 | 96.3 | 0.1 |
| Benzene | 0.0 | 8.4 | 8.5 | 10.0 | 84.0 | 85.0 | 1.2 |
| Toluene | 0.0 | 8.4 | 8.6 | 10.0 | 84.0 | 86.0 | 2.4 |
| Ethyl Benzene | 0.0 | 8.5 | 8.5 | 10.0 | 85.0 | 85.0 | 0.0 |
| Xylenes | 0.0 | 25.6 | 25.4 | 30.0 | 85.3 | 84.7 | 0.8 |
| TPH (diesel) | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| TRPH (oil & grease) | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

$$\% \text{ Rec.} = (\text{MS} - \text{Sample}) / \text{amount spiked} \times 100$$

$$\text{RPD} = (\text{MS} - \text{MSD}) / (\text{MS} + \text{MSD}) \times 2 \times 100$$

QC REPORT FOR METALS

Date: 05/20/97

Matrix: Soil

Extraction:TTLIC

| Analyte | Concentration (mg/kg, mg/L) | | | Amount Spiked | % Recovery | | RPD |
|------------|--------------------------------|-------|-------|------------------|------------|-----|-----|
| | Sample | MS | MSD | | MS | MSD | |
| Arsenic | 0.0 | 4.7 | 4.9 | 5.0 | 95 | 99 | 4.2 |
| Selenium | 0.0 | 4.2 | 4.1 | 5.0 | 85 | 83 | 2.2 |
| Molybdenum | 0.0 | 4.9 | 5.1 | 5.0 | 98 | 101 | 3.0 |
| Silver | 0.0 | 0.5 | 0.5 | 0.5 | 99 | 97 | 1.5 |
| Thallium | 0.0 | 4.7 | 4.7 | 5.0 | 94 | 93 | 0.3 |
| Barium | 0.0 | 4.2 | 4.1 | 5.0 | 84 | 82 | 2.4 |
| Nickel | 0.0 | 4.9 | 5.0 | 5.0 | 97 | 99 | 2.0 |
| Chromium | 0.0 | 5.1 | 5.2 | 5.0 | 101 | 104 | 2.6 |
| Vanadium | 0.0 | 4.6 | 4.7 | 5.0 | 92 | 94 | 2.1 |
| Beryllium | 0.0 | 5.1 | 5.1 | 5.0 | 102 | 102 | 0.0 |
| Zinc | 0.0 | 5.1 | 5.2 | 5.0 | 102 | 104 | 1.7 |
| Copper | 0.0 | 4.3 | 4.3 | 5.0 | 87 | 85 | 1.8 |
| Antimony | 0.0 | 4.6 | 4.7 | 5.0 | 91 | 93 | 2.2 |
| Lead | 0.0 | 4.8 | 5.1 | 5.0 | 97 | 101 | 4.2 |
| Cadmium | 0.0 | 4.9 | 4.9 | 5.0 | 98 | 99 | 0.6 |
| Cobalt | 0.0 | 4.7 | 4.8 | 5.0 | 95 | 96 | 1.1 |
| Mercury | 0.000 | 0.260 | 0.260 | 0.25 | 104 | 104 | 0.0 |

$$\% \text{ Rec.} = (\text{MS} - \text{Sample}) / \text{amount spiked} \times 100$$

$$\text{RPD} = (\text{MS} - \text{MSD}) / (\text{MS} + \text{MSD}) \times 2 \times 100$$

APPENDIX C

**PHASE II EXCAVATION
ANALYTICAL TEST DATA**

0001 XGP 521

| PROJECT NUMBER | | PROJECT NAME | | | | | | Type of Analysis | |
|------------------------------|---------|----------------------------|--------------------------|------|-----------------------|---|----------------------|--------------------|--------------------|
| C95041 | | WALSA PACIFIC EBMUD AMC | | | | | | | |
| Send Report Attention of: | | | Report Due | | Verbal Due | | Number of Containers | | |
| DAVID GLICK | | | / / | | / / | | | | |
| Sample Number | Date | Time | Comp | Grab | Station Location | Cntrs | Type of Containers | TPHs / TPHs / TPHs | TPHs / TPHs / TPHs |
| 20X1-51 | 6/11/97 | 930 | / | | NW SIDEWALL -6' | 1CA | 6" BOASS TUBE | ✓ | ✓ |
| 20X1-52 | | 930 | / | | EXC. BOTTOM -8' | | | ✓ | ✓ |
| 20X1-53 | | 940 | / | | NW SIDEWALL -6' | | | ✓ | ✓ |
| 20X1-54 | | 945 | / | | NORTH SIDEWALL -6' | | | ✓ | ✓ |
| 20X1-55 | | 952 | / | | BOTTOM SAMPLE -7' | | | ✓ | ✓ |
| 20X1-56 | | 1000 | / | | EXC. BOTTOM -7' | | | ✓ | ✓ |
| 20X1-57 | | 1050 | / | | SW SIDEWALL -7' | | | ✓ | ✓ |
| 20X1-58 | | 1050 | / | | EXC. BOTTOM -9' | | | ✓ | ✓ |
| 20X1-59 | | 1053 | / | | EXC. BOTTOM -8' | | | ✓ | ✓ |
| 20X1-510 | | 1125 | / | | EXC. BOTTOM -9' | | | ✓ | ✓ |
| 20X1-511 | | 1130 | / | | S WALL -7.5' | | | ✓ | ✓ |
| 20X1-512 | | 1138 | / | | S WALL -5' | | | ✓ | ✓ |
| Relinquished by: (Signature) | | Date/Time | Received by: (Signature) | | Date/Time | Remarks: <u>24 HOUR TRASH</u> 1 of 2 | | | |
| Relinquished by: (Signature) | | Date/Time | Received by: (Signature) | | Date/Time | | | | |
| Relinquished by: (Signature) | | Date/Time | Received by: (Signature) | | Date/Time | | | | |



| PROJECT NUMBER C95041 | | PROJECT NAME WALSH Pacific EBMUD AMC | | | | Number of Cntnrs | Type of Containers | Type of Analysis | | | | | | | | | | Condition of Samples | Initial | | |
|--|---------|--|------|--|---------------------|------------------------------|--------------------------|-------------------------------|-----|-------|-----|-----|-----|-----|-----|-----|-----|----------------------------|---------|-----|-----|
| Send Report Attention of: DAVID GLICK | | Report Due 1 1 | | Verbal Due 1 1 | | | | TPH | TOX | IN/BE | PHD | 017 | 018 | 019 | 020 | 021 | 022 | | | 023 | 024 |
| Sample Number | Date | Time | Comp | Grab | Station Location | | | | | | | | | | | | | | | | |
| 20X1-513 | 6/11/97 | 1147 | | 1 | SE SIDEWALK - B1 | 1 CH | 6" BOMB TUBE | ✓ | ✓ | | | | | | | | | | | | |
| <p>ICE/T ✓ GOOD CONDITION ✓ HEAD SPACE ABSENT ✓</p> <p>PRESERVATIVE APPROPRIATE CONTAINERS ✓</p> <p>VOAS 1000 METALS OTHER</p> | | | | | | | | | | | | | | | | | | | | | |
| Relinquished by: (Signature) <i>[Signature]</i> | | Date/Time 6/11/97 130 | | Received by: (Signature) <i>[Signature]</i> | | Date/Time 6/11/97 1315 | | Remarks: 24 HOUR TWSH 2072 | | | | | | | | | | | | | |
| Relinquished by: (Signature) <i>[Signature]</i> | | Date/Time 6/11/97 1425 | | Received by: (Signature) Jenny Milenic | | Date/Time 6/11 225pm | | | | | | | | | | | | | | | |
| Relinquished by: (Signature) | | Date/Time | | Received by: (Signature) | | Date/Time | | | | | | | | | | | | | | | |



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<http://www.mccampbell.com> E-mail: main@mccampbell.com

| | | |
|--|---|-------------------------------|
| Geo Plexus, Inc. 1900 Wyatt Drive, Suite 1 Santa Clara, CA 95054 | Client Project ID: #C95041; Walsh Pacific EBMUD AMC | Date Sampled: 06/11/97 |
| | Client Contact: David Glick | Date Received: 06/11/97 |
| | Client P.O: | Date Analyzed: 06/11-06/12/97 |
| | | |

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with Methyl tert-Butyl Ether* & BTEX*

EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030)

| Lab ID | Client ID | Matrix | TPH(g) ⁺ | MTBE | Benzene | Toluene | Ethylbenzene | Xylenes | % Recovery Surrogate |
|--|-----------|--------|---------------------|--------|---------|---------|--------------|---------|----------------------|
| 77406 | 20X1-S1 | S | ND | ND | ND | ND | ND | ND | 99 |
| 77407 | 20X1-S2 | S | ND | ND | ND | ND | ND | ND | 95 |
| 77408 | 20X1-S3 | S | 1.1j | ND | ND | ND | ND | 0.012 | 96 |
| 77409 | 20X1-S4 | S | 2.0j | ND | ND | ND | ND | 0.017 | 96 |
| 77410 | 20X1-S5 | S | 3.0j | ND | ND | 0.006 | ND | 0.008 | 100 |
| 77411 | 20X1-S6 | S | ND | ND | ND | 0.006 | ND | 0.011 | 96 |
| 77412 | 20X1-S7 | S | ND | ND | ND | ND | ND | ND | 95 |
| 77413 | 20X1-S8 | S | 2.7,c,a | ND | 0.040 | 0.018 | 0.013 | 0.084 | 103 |
| 77414 | 20X1-S9 | S | 3.1,c,a | ND | 1.1 | 0.14 | 0.031 | 0.081 | 100 |
| 77415 | 20X1-S10 | S | ND | ND | ND | ND | ND | ND | 98 |
| 77416 | 20X1-S11 | S | 11,c,a | ND<0.2 | 0.055 | 0.033 | 0.019 | 0.12 | 111 [#] |
| 77417 | 20X1-S12 | S | 67j | ND<0.7 | 4.1 | 0.21 | 0.33 | 0.44 | 108 [#] |
| 77418 | 20X1-S13 | S | 4.2j | ND | 0.010 | 0.009 | ND | 0.033 | 105 |
| | | | | | | | | | |
| Reporting Limit unless otherwise stated; ND means not detected above the reporting limit | W | | 50 ug/L | 5.0 | 0.5 | 0.5 | 0.5 | 0.5 | |
| | S | | 1.0 mg/kg | 0.05 | 0.005 | 0.005 | 0.005 | 0.005 | |

* water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP and SPLP extracts in ug/L

[#] cluttered chromatogram; sample peak coelutes with surrogate peak

*The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment; j) no recognizable pattern.



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<http://www.mccampbell.com> E-mail: main@mccampbell.com

| | | |
|--|---|-------------------------------|
| Geo Plexus, Inc. 1900 Wyatt Drive, Suite 1 Santa Clara, CA 95054 | Client Project ID: #C95041; Walsh Pacific EBMUD AMC | Date Sampled: 06/11/97 |
| | Client Contact: David Glick | Date Received: 06/11/97 |
| | Client P.O: | Date Analyzed: 06/11-06/12/97 |
| | | Date Extracted: 06/11/97 |

Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel *

EPA methods modified 8015, and 3550 or 3510; California RWQCB (SF Bay Region) method GCFID(3550) or GCFID(3510)

| Lab ID | Client ID | Matrix | TPH(d) [†] | % Recovery Surrogate |
|--|-----------|--------|---------------------|----------------------|
| 77406 | 20X1-S1 | S | 1.8,g | 98 |
| 77407 | 20X1-S2 | S | ND | 102 |
| 77408 | 20X1-S3 | S | ND | 105 |
| 77409 | 20X1-S4 | S | 3.2,b/g | 106 |
| 77410 | 20X1-S5 | S | 3.0,b/g | 103 |
| 77411 | 20X1-S6 | S | 1.4,g | 100 |
| 77412 | 20X1-S7 | S | 2.6,g | 100 |
| 77413 | 20X1-S8 | S | 3.8,b/g | 109 |
| 77414 | 20X1-S9 | S | ND | 102 |
| 77415 | 20X1-S10 | S | 4.0,g | 103 |
| 77416 | 20X1-S11 | S | 7.9,d,g | 102 |
| 77417 | 20X1-S12 | S | 27,d | 105 |
| 77418 | 20X1-S13 | S | 9.7,d,g | 106 |
| | | | | |
| Reporting Limit unless otherwise stated; ND means not detected above the reporting limit | W | | 50 ug/L | |
| | S | | 1.0 mg/kg | |

* water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP / STLC / SPLP extracts in ug/L

[†] cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

[‡]The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant; d) gasoline range compounds are significant; e) medium boiling point pattern that does not match diesel (?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment.



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|--|--|--------------------------|
| Geo Plexus, Inc. 1900 Wyatt Drive, Suite 1 Santa Clara, CA 95054 | Client Project ID: #C95041; Walsh Pacific EBMUD AMC | Date Sampled: 06/11/97 |
| | Client Contact: David Glick | Date Received: 06/11/97 |
| | Client P.O: | Date Extracted: 06/11/97 |
| | | Date Analyzed: 06/11/97 |

Petroleum Oil & Grease (with Silica Gel Clean-up) *

EPA methods 413.1, 9070 or 9071; Standard Methods 5520 D/E&F or 503 D&E for solids and 5520 B&F or 503 A&E for liquids

| Lab ID | Client ID | Matrix | Oil & Grease* |
|--|-----------|--------|---------------|
| 77408 | 20X1-S3 | S | ND |
| 77409 | 20X1-S4 | S | ND |
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| Reporting Limit unless otherwise stated; ND means not detected above the reporting limit | W | | 5 mg/L |
| | S | | 50 mg/kg |

* water samples are reported in mg/L, wipe samples in mg/wipe, soil and sludge samples in mg/kg, and all TCLP / STLC / SPLP extracts in mg/L

h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5vol. % sediment.

DHS Certification No. 1644

/s/ Edward Hamilton, Lab Director

QC REPORT FOR HYDROCARBON ANALYSES

Date: 06/10/97-06/11/97

Matrix: Soil

| Analyte | Concentration (mg/kg) | | | Amount Spiked | % Recovery | | RPD |
|-----------------------|-----------------------|-------|-------|---------------|------------|-----|-----|
| | Sample (#74306) | MS | MSD | | MS | MSD | |
| TPH (gas) | 0.000 | 2.046 | 2.058 | 2.03 | 101 | 101 | 0.6 |
| Benzene | 0.000 | 0.164 | 0.170 | 0.2 | 82 | 85 | 3.6 |
| Toluene | 0.000 | 0.186 | 0.192 | 0.2 | 93 | 96 | 3.2 |
| Ethylbenzene | 0.000 | 0.190 | 0.194 | 0.2 | 95 | 97 | 2.1 |
| Xylenes | 0.000 | 0.566 | 0.580 | 0.6 | 94 | 97 | 2.4 |
| TPH (diesel) | 0 | 350 | 342 | 300 | 117 | 114 | 2.3 |
| TRPH (oil and grease) | 0.0 | 30.2 | 32.8 | 30 | 101 | 109 | 8.3 |

$$\% \text{ Rec.} = (\text{MS} - \text{Sample}) / \text{amount spiked} \times 100$$

$$\text{RPD} = (\text{MS} - \text{MSD}) / (\text{MS} + \text{MSD}) \times 2 \times 100$$

| PROJECT NUMBER | | PROJECT NAME | | | | Number of Containers | Type of Containers | Type of Analysis | | | | | | C |
|------------------------------|---------|----------------------------|------|--------------------------|--------------------------|----------------------|--------------------|---|-------|-----------|-------|-------|---------------|----|
| 095041 | | WALK PACIFIC EDMUND AMC | | | | | | TPH-G/DTX/HTB | TPH-D | OLY/GC/MS | GC/TO | PMH'S | LOF-SUBSTRATE | |
| Send Report Attention of: | | Report Due | | Verbal Due | | Ctnrs | Containers | | | | | | | C |
| DAVID GLICK / RKH CAMACHO | | / / | | / / | | | | | | | | | | |
| Sample Number | Date | Time | Comp | Grab | Station Location | | | | | | | | | |
| 20X1-514 | 4/12/97 | 0830 | | 1 | EXCAVATION BOTTOM @ 8.5' | 100 | 6" BRASS TUBE | ✓ | ✓ | | | | | 41 |
| 20X1-515 | 4/12/97 | 0840 | | 1 | NORTHSIDE WALL @ 7' | | | ✓ | ✓ | | | | | 42 |
| 20X1-516 | 4/12/97 | 0850 | | 1 | EXCAVATION BOTTOM @ 8.5' | | | ✓ | ✓ | | | | | 43 |
| 20X1-517 | 4/12/97 | 0900 | | 1 | EAST SIDE WALL @ 7' | | | ✓ | ✓ | | | | | 44 |
| 20X1-518 | 4/12/97 | 0915 | | 1 | EXCAVATION BOTTOM @ 8.0' | | | ✓ | ✓ | | | | | 45 |
| 20X1-519 | 4/12/97 | 0930 | | 1 | EAST SIDE WALL @ 7' | | | ✓ | ✓ | | | | | 46 |
| HOX1-51 | 4/12/97 | 1000 | | 1 | SOUTH SIDE WALL @ 7' | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 47 |
| HOX1-52 | 4/12/97 | 1025 | | 1 | EXCAVATION BOTTOM @ 8' | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 48 |
| HOX1-53 | 4/12/97 | 1030 | | 1 | EXCAVATION BOTTOM @ 9' | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 49 |
| HOX1-54 | 4/12/97 | 1038 | | 1 | EXCAVATION BOTTOM @ 9' | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 50 |
| 20X1-20 | 4/12/97 | 1215 | | 1 | WEST SIDE WALL @ 7' | | | ✓ | ✓ | ✓ | | | | 51 |
| HOX1-55 | 4/12/97 | 1243 | | 1 | WEST WALL @ 6' | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 52 |
| Relinquished by: (Signature) | | Date/Time | | Received by: (Signature) | | Date/Time | | Remarks: 24 HOUR RUSH FAX COPY DIRECT TO RKH CAMACHO 510 4395854 | | | | | | |
| [Signature] | | 4/12/97 | | [Signature] MAI | | 6/12 4:15 | | | | | | | | |
| Relinquished by: (Signature) | | Date/Time | | Received by: (Signature) | | Date/Time | | | | | | | | |
| Relinquished by: (Signature) | | Date/Time | | Received by: (Signature) | | Date/Time | | | | | | | | |

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| Geo Plexus, Inc. 1900 Wyatt Drive, Suite 1 Santa Clara, CA 95054 | Client Project ID: #C95041; Walsh Pacific EBMUD AMC | Date Sampled: 06/12/97 |
| | Client Contact: David Glick | Date Received: 06/12/97 |
| | Client P.O: | Date Analyzed: 06/12-06/13/97 |
| | | Date Extracted: 06/12/97 |

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with Methyl tert-Butyl Ether* & BTEX*

EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030)

| Lab ID | Client ID | Matrix | TPH(g) ⁺ | MTBE | Benzene | Toluene | Ethylbenzene | Xylenes | % Recovery Surrogate |
|--|-----------|--------|---------------------|------|---------|---------|--------------|---------|----------------------|
| 77449 | 2OX1-S14 | S | ND | ND | ND | 0.006 | ND | ND | 99 |
| 77450 | 2OX1-S15 | S | 4.5,c,a | ND | 0.069 | 0.021 | 0.010 | 0.025 | 107 |
| 77451 | 2OX1-S16 | S | 6.5j | ND | 0.26 | 0.032 | 0.012 | 0.047 | 97 |
| 77452 | 2OX1-S17 | S | 12,c,b | ND | 0.29 | 0.041 | 0.023 | 0.15 | 101 |
| 77453 | 2OX1-S18 | S | ND | ND | ND | ND | ND | ND | 98 |
| 77454 | 2OX1-S19 | S | 1.2,j | ND | 0.006 | 0.007 | ND | 0.021 | 101 |
| 77456 | HOX1-S2 | S | ND | ND | ND | ND | ND | ND | 99 |
| 77457 | HOX1-S3 | S | ND | ND | ND | ND | ND | ND | 104 |
| 77458 | HOX1-S4 | S | ND | ND | ND | ND | ND | ND | 95 |
| 77459 | 2OX1-20 | S | 2.6,g | ND | ND | ND | ND | 0.014 | 104 |
| 77460 | HOX1-S5 | S | ND | 0.61 | ND | ND | ND | 0.019 | 102 |
| 77461 | HOX1-S6 | S | ND | ND | ND | ND | ND | ND | 105 |
| 77462 | HOX1-S7 | S | ND | ND | ND | ND | ND | ND | 102 |
| 77463 | HOX1-S8 | S | ND | 1.2 | 0.040 | 0.084 | ND | 0.017 | 103 |
| Reporting Limit unless otherwise stated; ND means not detected above the reporting limit | | W | 50 ug/L | 5.0 | 0.5 | 0.5 | 0.5 | 0.5 | |
| | | S | 1.0 mg/kg | 0.05 | 0.005 | 0.005 | 0.005 | 0.005 | |

* water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP and SPLP extracts in ug/L

⁺ cluttered chromatogram; sample peak coelutes with surrogate peak

*The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present, g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment; j) no recognizable pattern.

| PROJECT NUMBER | | PROJECT NAME | | | | Number of Cntrs | Type of Containers | Type of Analysis | | | | | | 77461 | | |
|------------------------------|---------|-----------------------------|------------|--------------------------|--------------------------|-----------------|--------------------------|---|------|----------------|------|--------|---------------|-------|-------|--|
| C95041 | | WALSH PACIFIC EDMUND AMO | | | | | | TPHS / ATC / MTD | TPHd | DL: GREASE SS2 | BVID | PN A'S | Left 5 metals | | 77462 | |
| Send Report Attention to: | | | Report Due | | Verbal Due | | of | of | | | | | | 77463 | | |
| DAVID GUCK / RICH CARMACHO | | | / / | | / / | | | | | | | | | | | |
| Sample Number | Date | Time | Comp | Grab | Station Location | | | | | | | | | | 77465 | |
| H0X1-56 | 6/12/97 | 1250 | | / | BOTTOM NORTHWEST @ 10' | 1CA | 6" BRASS TUBE | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | 77466 | |
| H0X1-57 | 6/12/97 | 1303 | | / | NW SIDE WALL @ 8' | | | ✓ | ✓ | ✓ | ✓ | | | | 77467 | |
| H0X1-58 | 6/12/97 | 1310 | | / | N. SIDE WALL @ 8' | | | ✓ | ✓ | ✓ | ✓ | | | | 77468 | |
| H0X1-59 | 6/12/97 | 1317 | | / | BOTTOM NORTHEAST @ 11' | | | ✓ | ✓ | ✓ | ✓ | ✓ | | | 77469 | |
| H0X1-510 | 6/12/97 | 1323 | | / | BOTTOM @ 11' | | | ✓ | ✓ | ✓ | ✓ | ✓ | | | 77470 | |
| H0X1-511 | 6/12/97 | 1345 | | / | BOTTOM @ 11' | | | ✓ | ✓ | ✓ | ✓ | ✓ | | | | |
| 2H0X1-51 | 6/11/97 | 1410 | | / | BOTTOM NORTH @ 11' | | | ✓ | ✓ | ✓ | ✓ | ✓ | | | | |
| 2H0X1-52 | 6/12/97 | 1420 | | / | BOTTOM CENTER @ 11' | | | ✓ | ✓ | ✓ | ✓ | ✓ | | | | |
| 2H0X1-53 | 6/12/97 | 1425 | | / | BOTTOM SOUTH @ 11' | | | ✓ | ✓ | ✓ | ✓ | ✓ | | | | |
| 20X1-54 | 6/12/97 | 1431 | | / | SIDEWALL N. SIDE @ 10.5' | | | ✓ | ✓ | ✓ | ✓ | ✓ | | | | |
| | | | | | | | ICAT | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | | | | | | | GOOD CONDITION | ✓ | | | | | | | | |
| | | | | | | | HEAD SPACE ABSENT | ✓ | | | | | | | | |
| | | | | | | | PRESERVATIVE APPROPRIATE | ✓ | | | | | | | | |
| | | | | | | | CONTAINERS | ✓ | | | | | | | | |
| Relinquished by: (Signature) | | Date/Time | | Received by: (Signature) | | Date/Time | | Remarks: 24 HOUR RUSH FAX COPY DIRECT TO RICH CARMACHO 510 439 5054 | | | | | | | | |
| [Signature] | | 6/12/97 1613 | | Milenic MAI | | 6/12 4:15 | | | | | | | | | | |
| Relinquished by: (Signature) | | Date/Time | | Received by: (Signature) | | Date/Time | | | | | | | | | | |
| Relinquished by: (Signature) | | Date/Time | | Received by: (Signature) | | Date/Time | | | | | | | | | | |



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<http://www.mccampbell.com> E-mail: main@mccampbell.com

| | | |
|--|---|-------------------------------|
| Geo Plexus, Inc. 1900 Wyatt Drive, Suite 1 Santa Clara, CA 95054 | Client Project ID: #C95041; Walsh Pacific EBMUD AMC | Date Sampled: 06/12/97 |
| | Client Contact: David Glick | Date Received: 06/12/97 |
| | Client P.O: | Date Extracted: 06/12/97 |
| | | Date Analyzed: 06/12-06/13/97 |

Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel *

EPA methods modified 8015, and 3550 or 3510; California RWQCB (SF Bay Region) method GCFID(3550) or GCFID(3510)

| Lab ID | Client ID | Matrix | TPH(d) [†] | % Recovery Surrogate |
|--|-----------|--------|---------------------|----------------------|
| 77449 | 2OX1-S14 | S | ND | 103 |
| 77450 | 2OX1-S15 | S | 3.8,g | 103 |
| 77451 | 2OX1-S16 | S | ND | 104 |
| 77452 | 2OX1-S17 | S | 5.3,d,g | 106 |
| 77453 | 2OX1-S18 | S | 1.2,g | 108 |
| 77454 | 2OX1-S19 | S | 1.5,g | 104 |
| 77456 | HOX1-S2 | S | 3.3,g | 103 |
| 77457 | HOX1-S3 | S | 1.8,g | 100 |
| 77458 | HOX1-S4 | S | 3.7,g | 101 |
| 77459 | 2OX1-20 | S | 11,g,b | 104 |
| 77460 | HOX1-S5 | S | 4.7,g | 102 |
| 77461 | HOX1-S6 | S | 1.8,g | 102 |
| 77462 | HOX1-S7 | S | 3.5,g | 103 |
| 77463 | HOX1-S8 | S | 5.6,g | 107 |
| Reporting Limit unless otherwise stated; ND means not detected above the reporting limit | W | | 50 ug/L | |
| | S | | 1.0 mg/kg | |

* water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP / STLC / SPLP extracts in ug/L

[†] cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

*The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant; d) gasoline range compounds are significant; e) medium boiling point pattern that does not match diesel (?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment.



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| | | |
|--|--|--------------------------|
| Geo Plexus, Inc. 1900 Wyatt Drive, Suite 1 Santa Clara, CA 95054 | Client Project ID: #C95041; Walsh Pacific EBMUD AMC | Date Sampled: 06/12/97 |
| | Client Contact: David Glick | Date Received: 06/12/97 |
| | Client P.O: | Date Extracted: 06/12/97 |
| | | Date Analyzed: 06/12/97 |

Petroleum Oil & Grease (with Silica Gel Clean-up) *

EPA methods 413.1, 9070 or 9071; Standard Methods 5520 D/E&F or 503 D&E for solids and 5520 B&F or 503 A&E for liquids

| Lab ID | Client ID | Matrix | Oil & Grease* |
|--|-----------|--------|---------------|
| 77456 | HOX1-S2 | S | ND |
| 77457 | HOX1-S3 | S | ND |
| 77458 | HOX1-S4 | S | ND |
| 77459 | 2OX1-20 | S | 1500 |
| 77460 | HOX1-S5 | S | ND |
| 77461 | HOX1-S6 | S | ND |
| 77462 | HOX1-S7 | S | ND |
| 77463 | HOX1-S8 | S | ND |
| 77464 | HOX1-S9 | S | ND |
| 77465 | HOX1-S10 | S | ND |
| 77466 | HOX1-S11 | S | ND |
| 77467 | 2HOX1-S1 | S | ND |
| 77468 | 2HOX1-S2 | S | ND |
| 77469 | 2HOX1-S3 | S | ND |
| Reporting Limit unless otherwise stated; ND means not detected above the reporting limit | W | | 5 mg/L |
| | S | | 50 mg/kg |

* water samples are reported in mg/L, wipe samples in mg/wipe, soil and sludge samples in mg/kg, and all TCLP / STLC / SPLP extracts in mg/L

h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5vol. % sediment.

DHS Certification No. 1644

 Edward Hamilton, Lab Director



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| | Client Contact: David Glick | Date Received: 06/12/97 |
| | Client P.O: | Date Extracted: 06/12/97 |
| | | Date Analyzed: 06/12/97 |

Petroleum Oil & Grease (with Silica Gel Clean-up) *

EPA methods 413.1, 9070 or 9071; Standard Methods 5520 D/E&F or 503 D&E for solids and 5520 B&F or 503 A&E for liquids

| Lab ID | Client ID | Matrix | Oil & Grease* |
|--|-----------|----------|---------------|
| 77470 | 2HOX1-S4 | S | ND |
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| Reporting Limit unless otherwise stated; ND means not detected above the reporting limit | W | 5 mg/L | |
| | S | 50 mg/kg | |

* water samples are reported in mg/L, wipe samples in mg/wipe, soil and sludge samples in mg/kg, and all TCLP / STLC / SPLP extracts in mg/L
h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5vol. % sediment.



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| | Client Contact: David Glick | Date Received: 06/12/97 |
| | Client P.O: | Date Extracted: 06/12/97 |
| | | Date Analyzed: 06/12/97 |

Volatile Halocarbons

EPA method 601 or 8010

| Lab ID | 77456 | 77457 | 77458 | 77460 |
|--|---------------|---------|---------|---------|
| Client ID | HOX1-S2 | HOX1-S3 | HOX1-S4 | HOX1-S5 |
| Matrix | S | S | S | S |
| Compound | Concentration | | | |
| Bromodichloromethane | ND | ND | ND | ND |
| Bromoform ^(b) | ND | ND | ND | ND |
| Bromomethane | ND | ND | ND | ND |
| Carbon Tetrachloride ^(c) | ND | ND | ND | ND |
| Chlorobenzene | ND | ND | ND | ND |
| Chloroethane | ND | ND | ND | ND |
| 2-Chloroethyl Vinyl Ether ^(d) | ND | ND | ND | ND |
| Chloroform ^(e) | ND | ND | ND | ND |
| Chloromethane | ND | ND | ND | ND |
| Dibromochloromethane | ND | ND | ND | ND |
| 1,2-Dichlorobenzene | ND | ND | ND | ND |
| 1,3-Dichlorobenzene | ND | ND | ND | ND |
| 1,4-Dichlorobenzene | ND | ND | ND | ND |
| Dichlorodifluoromethane | ND | ND | ND | ND |
| 1,1-Dichloroethane | ND | ND | ND | ND |
| 1,2-Dichloroethane | ND | ND | ND | ND |
| 1,1-Dichloroethene | ND | ND | ND | ND |
| cis 1,2-Dichloroethene | ND | ND | ND | ND |
| trans 1,2-Dichloroethene | ND | ND | ND | ND |
| 1,2-Dichloropropane | ND | ND | ND | ND |
| cis 1,3-Dichloropropene | ND | ND | ND | ND |
| trans 1,3-Dichloropropene | ND | ND | ND | ND |
| Methylene Chloride ^(f) | ND | ND | ND | ND |
| 1,1,2,2-Tetrachloroethane | ND | ND | ND | ND |
| Tetrachloroethene | ND | ND | ND | ND |
| 1,1,1-Trichloroethane | ND | ND | ND | ND |
| 1,1,2-Trichloroethane | ND | ND | ND | ND |
| Trichloroethene | ND | ND | ND | ND |
| Trichlorofluoromethane | ND | ND | ND | ND |
| Vinyl Chloride ^(g) | ND | ND | ND | ND |
| % Recovery Surrogate | 97 | 100 | 98 | 98 |
| Comments | | | | |

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil and sludge samples in ug/kg, wipe samples in ug/wipe
 Reporting limit unless otherwise stated: water/TCLP/SPLP extracts, ND<0.5ug/L; soils and sludges, ND<5ug/kg; wipes, ND<0.2ug/wipe
 ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

(b) tribromomethane; (c) tetrachloromethane; (d) (2-chloroethoxy) ethene; (e) trichloromethane; (f) dichloromethane; (g) chloroethene; (h) a lighter than water immiscible sheen is present; (i) liquid sample that contains greater than ~5 vol. % sediment; (j) sample diluted due to high organic content.



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| | Client Contact: David Glick | Date Received: 06/12/97 |
| | Client P.O: | Date Extracted: 06/12/97 |
| | | Date Analyzed: 06/12/97 |

Volatile Halocarbons

EPA method 601 or 8010

| Lab ID | 77461 | 77462 | 77463 | 77464 |
|--|---------------|---------|---------|---------|
| Client ID | HOX1-S6 | HOX1-S7 | HOX1-S8 | HOX1-S9 |
| Matrix | S | S | S | S |
| Compound | Concentration | | | |
| Bromodichloromethane | ND | ND | ND | ND |
| Bromoform ^(b) | ND | ND | ND | ND |
| Bromomethane | ND | ND | ND | ND |
| Carbon Tetrachloride ^(c) | ND | ND | ND | ND |
| Chlorobenzene | ND | ND | ND | ND |
| Chloroethane | ND | ND | ND | ND |
| 2-Chloroethyl Vinyl Ether ^(d) | ND | ND | ND | ND |
| Chloroform ^(e) | ND | ND | ND | ND |
| Chloromethane | ND | ND | ND | ND |
| Dibromochloromethane | ND | ND | ND | ND |
| 1,2-Dichlorobenzene | ND | ND | ND | ND |
| 1,3-Dichlorobenzene | ND | ND | ND | ND |
| 1,4-Dichlorobenzene | ND | ND | ND | ND |
| Dichlorodifluoromethane | ND | ND | ND | ND |
| 1,1-Dichloroethane | ND | ND | ND | ND |
| 1,2-Dichloroethane | ND | ND | ND | ND |
| 1,1-Dichloroethene | ND | ND | ND | ND |
| cis 1,2-Dichloroethene | ND | ND | ND | ND |
| trans 1,2-Dichloroethene | ND | ND | ND | ND |
| 1,2-Dichloropropane | ND | ND | ND | ND |
| cis 1,3-Dichloropropene | ND | ND | ND | ND |
| trans 1,3-Dichloropropene | ND | ND | ND | ND |
| Methylene Chloride ^(f) | ND | ND | ND | ND |
| 1,1,2,2-Tetrachloroethane | ND | ND | ND | ND |
| Tetrachloroethene | ND | ND | ND | ND |
| 1,1,1-Trichloroethane | ND | ND | ND | ND |
| 1,1,2-Trichloroethane | ND | ND | ND | ND |
| Trichloroethene | ND | ND | ND | ND |
| Trichlorofluoromethane | ND | ND | ND | ND |
| Vinyl Chloride ^(g) | ND | ND | ND | ND |
| % Recovery Surrogate | 98 | 100 | 100 | 96 |
| Comments | | | | |

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil and sludge samples in ug/kg, wipe samples in ug/wipe
 Reporting limit unless otherwise stated: water/TCLP/SPLP extracts, ND<0.5ug/L; soils and sludges, ND<5ug/kg; wipes, ND<0.2ug/wipe
 ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

(b) tribromomethane; (c) tetrachloromethane; (d) (2-chloroethoxy) ethene; (e) trichloromethane; (f) dichloromethane; (g) chloroethene; (h) a lighter than water immiscible sheen is present; (i) liquid sample that contains greater than ~5 vol. % sediment; (j) sample diluted due to high organic content.



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| Geo Plexus, Inc. 1900 Wyatt Drive, Suite 1 Santa Clara, CA 95054 | Client Project ID: #C95041; Walsh Pacific EBMUD AMC | Date Sampled: 06/12/97 |
| | Client Contact: David Glick | Date Received: 06/12/97 |
| | Client P.O: | Date Extracted: 06/12/97 |
| | | Date Analyzed: 06/12/97 |

Volatile Halocarbons

EPA method 601 or 8010

| Lab ID | 77465 | 77466 | 77467 | 77468 |
|--|---------------|----------|----------|----------|
| Client ID | HOX1-S10 | HOX1-S11 | 2HOX1-S1 | 2HOX1-S2 |
| Matrix | S | S | S | S |
| Compound | Concentration | | | |
| Bromodichloromethane | ND | ND | ND | ND |
| Bromoform ^(b) | ND | ND | ND | ND |
| Bromomethane | ND | ND | ND | ND |
| Carbon Tetrachloride ^(c) | ND | ND | ND | ND |
| Chlorobenzene | ND | ND | ND | ND |
| Chloroethane | ND | ND | ND | ND |
| 2-Chloroethyl Vinyl Ether ^(d) | ND | ND | ND | ND |
| Chloroform ^(e) | ND | ND | ND | ND |
| Chloromethane | ND | ND | ND | ND |
| Dibromochloromethane | ND | ND | ND | ND |
| 1,2-Dichlorobenzene | ND | ND | ND | ND |
| 1,3-Dichlorobenzene | ND | ND | ND | ND |
| 1,4-Dichlorobenzene | ND | ND | ND | ND |
| Dichlorodifluoromethane | ND | ND | ND | ND |
| 1,1-Dichloroethane | ND | ND | ND | ND |
| 1,2-Dichloroethane | ND | ND | ND | ND |
| 1,1-Dichloroethene | ND | ND | ND | ND |
| cis 1,2-Dichloroethene | ND | ND | ND | ND |
| trans 1,2-Dichloroethene | ND | ND | ND | ND |
| 1,2-Dichloropropane | ND | ND | ND | ND |
| cis 1,3-Dichloropropene | ND | ND | ND | ND |
| trans 1,3-Dichloropropene | ND | ND | ND | ND |
| Methylene Chloride ^(f) | ND | ND | ND | ND |
| 1,1,2,2-Tetrachloroethane | ND | ND | ND | ND |
| Tetrachloroethene | ND | ND | ND | ND |
| 1,1,1-Trichloroethane | ND | ND | ND | ND |
| 1,1,2-Trichloroethane | ND | ND | ND | ND |
| Trichloroethene | ND | ND | ND | ND |
| Trichlorofluoromethane | ND | ND | ND | ND |
| Vinyl Chloride ^(g) | ND | ND | ND | ND |
| % Recovery Surrogate | 97 | 97 | 97 | 96 |
| Comments | | | | |

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil and sludge samples in ug/kg, wipe samples in ug/wipe
 Reporting limit unless otherwise stated: water/TCLP/SPLP extracts, ND<0.5ug/L; soils and sludges, ND<5ug/kg; wipes, ND<0.2ug/wipe
 ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

(b) tribromomethane; (c) tetrachloromethane; (d) (2-chloroethoxy) ethene; (e) trichloromethane; (f) dichloromethane; (g) chloroethene; (h) a lighter than water immiscible sheen is present; (i) liquid sample that contains greater than ~5 vol. % sediment; (j) sample diluted due to high organic content.



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| Geo Plexus, Inc. 1900 Wyatt Drive, Suite 1 Santa Clara, CA 95054 | Client Project ID: #C95041; Walsh Pacific EBMUD AMC | Date Sampled: 06/12/97 |
| | Client Contact: David Glick | Date Received: 06/12/97 |
| | Client P.O: | Date Extracted: 06/12/97 |
| | | Date Analyzed: 06/12/97 |

Volatile Halocarbons

EPA method 601 or 8010

| Lab ID | 77469 | 77470 | | |
|--|---------------|----------|--|--|
| Client ID | 2HOX1-S3 | S2OX1-S4 | | |
| Matrix | S | S | | |
| Compound | Concentration | | | |
| Bromodichloromethane | ND | ND | | |
| Bromoform ^(b) | ND | ND | | |
| Bromomethane | ND | ND | | |
| Carbon Tetrachloride ^(c) | ND | ND | | |
| Chlorobenzene | ND | ND | | |
| Chloroethane | ND | ND | | |
| 2-Chloroethyl Vinyl Ether ^(d) | ND | ND | | |
| Chloroform ^(e) | ND | ND | | |
| Chloromethane | ND | ND | | |
| Dibromochloromethane | ND | ND | | |
| 1,2-Dichlorobenzene | ND | ND | | |
| 1,3-Dichlorobenzene | ND | ND | | |
| 1,4-Dichlorobenzene | ND | ND | | |
| Dichlorodifluoromethane | ND | ND | | |
| 1,1-Dichloroethane | ND | ND | | |
| 1,2-Dichloroethane | ND | ND | | |
| 1,1-Dichloroethene | ND | ND | | |
| cis 1,2-Dichloroethene | ND | ND | | |
| trans 1,2-Dichloroethene | ND | ND | | |
| 1,2-Dichloropropane | ND | ND | | |
| cis 1,3-Dichloropropene | ND | ND | | |
| trans 1,3-Dichloropropene | ND | ND | | |
| Methylene Chloride ^(f) | ND | ND | | |
| 1,1,2,2-Tetrachloroethane | ND | ND | | |
| Tetrachloroethene | ND | ND | | |
| 1,1,1-Trichloroethane | ND | ND | | |
| 1,1,2-Trichloroethane | ND | ND | | |
| Trichloroethene | ND | ND | | |
| Trichlorofluoromethane | ND | ND | | |
| Vinyl Chloride ^(g) | ND | ND | | |
| % Recovery Surrogate | 97 | 98 | | |
| Comments | | | | |

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil and sludge samples in ug/kg, wipe samples in ug/wipe
 Reporting limit unless otherwise stated: water/TCLP/SPLP extracts, ND<0.5ug/L; soils and sludges, ND<5ug/kg; wipes, ND<0.2ug/wipe
 ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

(b) tribromomethane; (c) tetrachloromethane; (d) (2-chloroethoxy) ethene; (e) trichloromethane; (f) dichloromethane; (g) chloroethene; (h) a lighter than water immiscible sheen is present; (i) liquid sample that contains greater than ~5 vol. % sediment; (j) sample diluted due to high organic content.



McCAMPBELL ANALYTICAL INC.

110 Second Avenue South, #D7, Pacheco, CA 94553
 Telephone : 510-798-1620 Fax : 510-798-1622
<http://www.mccampbell.com> E-mail: main@mccampbell.com

| | | |
|--|---|--------------------------|
| Geo Plexus, Inc. 1900 Wyatt Drive, Suite 1 Santa Clara, CA 95054 | Client Project ID: #C95041; Walsh Pacific EBMUD AMC | Date Sampled: 06/12/97 |
| | Client Contact: David Glick | Date Received: 06/12/97 |
| | Client P.O: | Date Extracted: 06/12/97 |
| | | Date Analyzed: 06/13/97 |

LUFT Metals*

EPA analytical methods 6010/200.7, 239.2*

| Lab ID | Client ID | Matrix | Extraction ^o | Cadmium | Chromium | Lead | Nickel | Zinc | % Recovery Surrogate |
|--|-----------|------------|-------------------------|---------|----------|------|--------|------|----------------------|
| 77456 | HOX1-S2 | S | TTLC | ND | 42 | 11 | 22 | 40 | 102 |
| 77457 | HOX1-S3 | S | TTLC | ND | 28 | 6.6 | 28 | 25 | 102 |
| 77458 | HOX1-S4 | S | TTLC | ND | 40 | 6.3 | 36 | 44 | 101 |
| 77460 | HOX1-S5 | S | TTLC | ND | 33 | 5.4 | 18 | 25 | 97 |
| 77461 | HOX1-S6 | S | TTLC | ND | 34 | 6.6 | 74 | 45 | 100 |
| 77464 | HOX1-S9 | S | TTLC | ND | 24 | 4.1 | 28 | 24 | 103 |
| 77465 | HOX1-S10 | S | TTLC | ND | 25 | 4.8 | 26 | 26 | 101 |
| 77466 | HOX1-S11 | S | TTLC | ND | 30 | 5.9 | 42 | 45 | 98 |
| 77467 | 2HOX1-S1 | S | TTLC | ND | 32 | 4.8 | 40 | 31 | 93 |
| 77468 | 2HOX1-S2 | S | TTLC | ND | 35 | 6.6 | 43 | 33 | 100 |
| 77469 | 2HOX1-S3 | S | TTLC | ND | 33 | 9.0 | 66 | 33 | 100 |
| 77470 | 2HOX1-S4 | S | TTLC | ND | 35 | 4.3 | 30 | 22 | 102 |
| | | | | | | | | | |
| Reporting Limit unless otherwise stated; ND means not detected above the reporting limit | S | TTLC | 0.5 mg/kg | 0.5 | 3.0 | 2.0 | 1.0 | | |
| | W | TTLC | 0.005 mg/L | 0.005 | 0.005 | 0.05 | 0.05 | | |
| | --- | STLC, TCLP | 0.01 mg/L | 0.05 | 0.2 | 0.05 | 0.05 | | |

* water samples are reported in mg/L, soil and sludge samples in mg/kg, wipes in ug/wipe and all TCLP / STLC / SPLP extracts in mg/L

[#] Lead is analysed using EPA method 6010 (ICP)for soils, STLC & TCLP extracts and method 239.2 (AA Furnace) for water samples

^o EPA extraction methods 1311(TCLP), 3010/3020(water,TTLC), 3040(organic matrices,TTLC), 3050(solids,TTLC); STLC - CA Title 22

[#] surrogate diluted out of range; N/A means surrogate not applicable to this analysis

[&] reporting limit raised due to matrix interference

i) liquid sample that contains greater than ~2 vol. % sediment; this sediment is extracted with the liquid, in accordance with EPA methodologies and can significantly effect reported metal concentrations.

QC REPORT FOR HYDROCARBON ANALYSES

Date: 06/12/97

Matrix: Soil

| Analyte | Concentration (mg/kg) | | | Amount Spiked | % Recovery | | RPD |
|-----------------------|-----------------------|-------|-------|---------------|------------|-----|------|
| | Sample (#75863) | MS | MSD | | MS | MSD | |
| TPH (gas) | 0.000 | 1.974 | 2.045 | 2.03 | 97 | 101 | 3.5 |
| Benzene | 0.000 | 0.162 | 0.174 | 0.2 | 81 | 87 | 7.1 |
| Toluene | 0.000 | 0.184 | 0.180 | 0.2 | 92 | 90 | 2.2 |
| Ethylbenzene | 0.000 | 0.192 | 0.182 | 0.2 | 96 | 91 | 5.3 |
| Xylenes | 0.000 | 0.632 | 0.536 | 0.6 | 105 | 89 | 16.4 |
| TPH (diesel) | 0 | 319 | 316 | 300 | 106 | 105 | 0.8 |
| TRPH (oil and grease) | 0.0 | 22.4 | 22.3 | 20.8 | 108 | 107 | 0.4 |

* Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

QC REPORT FOR HYDROCARBON ANALYSES

Date: 06/13/97

Matrix: Soil

| Analyte | Concentration (mg/kg) | | | Amount Spiked | % Recovery | | RPD |
|-----------------------|-----------------------|-------|-------|---------------|------------|-----|------|
| | Sample (#75863) | MS | MSD | | MS | MSD | |
| TPH (gas) | 0.000 | 1.846 | 2.150 | 2.03 | 91 | 106 | 15.2 |
| Benzene | 0.000 | 0.174 | 0.184 | 0.2 | 87 | 92 | 5.6 |
| Toluene | 0.000 | 0.180 | 0.192 | 0.2 | 90 | 96 | 6.5 |
| Ethylbenzene | 0.000 | 0.182 | 0.194 | 0.2 | 91 | 97 | 6.4 |
| Xylenes | 0.000 | 0.538 | 0.572 | 0.6 | 90 | 95 | 6.1 |
| TPH (diesel) | 0 | 320 | 320 | 300 | 107 | 107 | 0.0 |
| TRPH (oil and grease) | 0.0 | 22.0 | 21.3 | 20.8 | 106 | 102 | 3.2 |

$$\% \text{ Rec.} = (\text{MS} - \text{Sample}) / \text{amount spiked} \times 100$$

$$\text{RPD} = (\text{MS} - \text{MSD}) / (\text{MS} + \text{MSD}) \times 2 \times 100$$

QC REPORT FOR EPA 8010/8020/EDB

Date: 06/12/97

Matrix: Soil

| Analyte | Concentration (ug/kg) | | | | % Recovery | | RPD |
|-----------------|-----------------------|-----|-----|------------------|------------|-----|-----|
| | Sample (#75863) | MS | MSD | Amount Spiked | MS | MSD | |
| 1,1-DCE | 0 | 89 | 89 | 100 | 89 | 89 | 0.0 |
| Trichloroethene | 0 | 82 | 82 | 100 | 82 | 82 | 0.0 |
| EDB | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Chlorobenzene | 0 | 85 | 85 | 100 | 85 | 85 | 0.0 |
| Benzene | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Toluene | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Chlorobz (PID) | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

$$\% \text{ Rec.} = (\text{MS} - \text{Sample}) / \text{amount spiked} \times 100$$

$$\text{RPD} = (\text{MS} - \text{MSD}) / (\text{MS} + \text{MSD}) \times 2 \times 100$$

McCAMPBELL ANALYTICAL INC.

110 2nd Avenue South, #D7, Pacheco, CA 94553

Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT FOR ICP and/or AA METALS

Date: 06/13/97

Matrix: Soil

Extraction: TTLC

| Analyte | Concentration (mg/kg, mg/L) | | | Amount Spiked | % Recovery | | RPD |
|----------------|--------------------------------|------|------|------------------|------------|-----|-----|
| | Sample | MS | MSD | | MS | MSD | |
| Total Lead | 0.0 | 4.76 | 4.79 | 5.0 | 95 | 96 | 0.6 |
| Total Cadmium | 0.0 | 5.30 | 5.24 | 5.0 | 106 | 105 | 1.1 |
| Total Chromium | 0.0 | 5.29 | 5.23 | 5.0 | 106 | 105 | 1.0 |
| Total Nickel | 0.0 | 4.91 | 4.97 | 5.0 | 98 | 99 | 1.4 |
| Total Zinc | 0.0 | 5.46 | 5.39 | 5.0 | 109 | 108 | 1.3 |
| Total Copper | 0.00 | 4.78 | 4.74 | 5.0 | 96 | 95 | 0.8 |
| STLC Lead | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

* Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

McCAMPBELL ANALYTICAL

110 2nd AVENUE, # D7
PACHECO, CA 94553

(510) 798-1620

FAX (510) 798-1622

REPORT TO: **ED HAMILTON** BILL TO: **MAI**

PROJECT NUMBER: **8814** PROJECT NAME: **GP-C 95041**

PROJECT LOCATION:

CHAIN OF CUSTODY RECORD

TURN AROUND TIME: RUSH 24 HOUR 48 HOUR 5 DAY ROUTINE

7706171

ANALYSIS REQUEST

OTHER

| | | | | | | | | | | | | |
|--------------|--------------|--------------|--------------------------|-------------------|--------------|-----------------|---------------------------------|-------------|-----------------------------|--------------|-----|------|
| EPA 501/8010 | EPA 502/8020 | EPA 508/8080 | EPA 508/8080 - PCBs Only | EPA 524/8240/8260 | EPA 625/8270 | CAM - 17 Metals | EPA - Priority Pollutant Metals | LUFT Metals | LEAD (7240/7421/239.2/6010) | ORGANIC LEAD | PCI | PAHS |
|--------------|--------------|--------------|--------------------------|-------------------|--------------|-----------------|---------------------------------|-------------|-----------------------------|--------------|-----|------|

COMMENTS

| SAMPLE ID | LOCATION | SAMPLING | | CONTAINERS | TYPE CONTAINERS | MATRIX | | | | | METHOD PRESERVED | | | |
|-----------|----------|----------|------|------------|-----------------|--------|------|-----|--------|-------|------------------|------|-----|-------|
| | | DATE | TIME | | | WATER | SOIL | AIR | SLUDGE | OTHER | HCL | HNO3 | ICE | OTHER |
| H0X1-S2 | 01A | 6/12 | 1025 | 1 | V09 | | X | | | | | | X | |
| H0X1-S3 | 02A | | 1030 | | | | | | | | | | | |
| H0X1-S4 | 03A | | 1038 | | | | | | | | | | | |
| H0X1-S5 | 04A | | 1243 | | | | | | | | | | | |
| H0X1-S6 | 05A | | 1250 | | | | | | | | | | | |
| H0X1-S9 | 06A | | 1317 | | | | | | | | | | | |
| H0X1-S10 | 07A | | 1323 | | | | | | | | | | | |
| H0X1-S11 | 08A | | 1345 | | | | | | | | | | | |
| 2H0X1-S1 | 09A | | 1410 | | | | | | | | | | | |
| 2H0X1-S2 | 10A | | 1420 | | | | | | | | | | | |
| 2H0X1-S3 | 11A | | 1425 | | | | | | | | | | | |
| 2H0X1-S4 | 12A | | 1431 | | | | | | | | | | | |

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| | | | |
|---|-----------------|---------------|--|
| RELINQUISHED BY: <i>Milenic</i> | DATE 6/12 | TIME 5:20 | RECEIVED BY: <i>Rick Gilmore</i> |
| RELINQUISHED BY: <i>Rick Gilmore</i> | DATE 6-12-97 | TIME 18:00 | RECEIVED BY: <i>Lucena Rodonchi</i> |
| RELINQUISHED BY: | DATE | TIME | RECEIVED BY LABORATORY: |

REMARKS:
Fax A.S.A.P.

American Environmental Network

Certificate of Analysis

DOHS Certification: 1172

AIHA Accreditation: 11134

PAGE 1

McCAMPBELL ANALYTICAL
110 2ND AVE. SOUTH, #D7
PACHECO, CA 94553

REPORT DATE: 06/18/97

DATE(S) SAMPLED: 06/12/97

DATE RECEIVED: 06/12/97

ATTN: EDWARD HAMILTON
CLIENT PROJ. ID: 8814
CLIENT PROJ. NAME: GP-C95041

AEN WORK ORDER: 9706171


PROJECT SUMMARY:

On June 12, 1997, this laboratory received 12 soil sample(s).

Client requested sample(s) be analyzed for chemical parameters. Results of analysis are summarized on the following page(s). Please see quality control report for a summary of QC data pertaining to this project.

Samples will be stored for 30 days after completion of analysis, then disposed of in accordance with State and Federal regulations. Samples may be archived by prior arrangement.

If you have any questions, please contact Client Services at (510) 930-9090.


Larry Klein
Laboratory Director

McCAMPBELL ANALYTICAL

SAMPLE ID: HOX1-S2
 AEN LAB NO: 9706171-01
 AEN WORK ORDER: 9706171
 CLIENT PROJ. ID: 8814

DATE SAMPLED: 06/12/97
 DATE RECEIVED: 06/12/97
 REPORT DATE: 06/18/97

| ANALYTE | METHOD/ CAS# | RESULT | REPORTING LIMIT | UNITS | DATE ANALYZED |
|------------------------|-----------------|--------|--------------------|------------|------------------|
| #Extraction for PNAs | EPA 3550 | - | | Extrn Date | 06/12/97 |
| PNAs by EPA 8270 | EPA 8270 | | | | |
| Acenaphthene | 83-32-9 | ND | 400 | ug/kg | 06/13/97 |
| Acenaphthylene | 208-96-8 | ND | 400 | ug/kg | 06/13/97 |
| Anthracene | 120-12-7 | ND | 400 | ug/kg | 06/13/97 |
| Benzo(a)anthracene | 56-55-3 | ND | 400 | ug/kg | 06/13/97 |
| Benzo(b)fluoranthene | 205-99-2 | ND | 400 | ug/kg | 06/13/97 |
| Benzo(k)fluoranthene | 207-08-9 | ND | 400 | ug/kg | 06/13/97 |
| Benzo(g,h,i)perylene | 191-24-2 | ND | 400 | ug/kg | 06/13/97 |
| Benzo(a)pyrene | 50-32-8 | ND | 400 | ug/kg | 06/13/97 |
| Chrysene | 218-01-9 | ND | 400 | ug/kg | 06/13/97 |
| Dibenzo(a,h)anthracene | 53-70-3 | ND | 400 | ug/kg | 06/13/97 |
| Fluoranthene | 206-44-0 | ND | 400 | ug/kg | 06/13/97 |
| Fluorene | 86-73-7 | ND | 400 | ug/kg | 06/13/97 |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | ND | 400 | ug/kg | 06/13/97 |
| Naphthalene | 91-20-3 | ND | 400 | ug/kg | 06/13/97 |
| Phenanthrene | 85-01-8 | ND | 400 | ug/kg | 06/13/97 |
| Pyrene | 129-00-0 | ND | 400 | ug/kg | 06/13/97 |

Less than normal amount of sample available for analysis; reporting limits elevated accordingly.

ND = Not detected at or above the reporting limit

* = Value at or above reporting limit

McCAMPBELL ANALYTICAL

SAMPLE ID: HOX1-S3
 AEN LAB NO: 9706171-02
 AEN WORK ORDER: 9706171
 CLIENT PROJ. ID: 8814

DATE SAMPLED: 06/12/97
 DATE RECEIVED: 06/12/97
 REPORT DATE: 06/18/97

| ANALYTE | METHOD/ CAS# | RESULT | REPORTING LIMIT | UNITS | DATE ANALYZED |
|------------------------|-----------------|--------|--------------------|------------|------------------|
| #Extraction for PNAs | EPA 3550 | - | | Extrn Date | 06/12/97 |
| PNAs by EPA 8270 | EPA 8270 | | | | |
| Acenaphthene | 83-32-9 | ND | 330 | ug/kg | 06/13/97 |
| Acenaphthylene | 208-96-8 | ND | 330 | ug/kg | 06/13/97 |
| Anthracene | 120-12-7 | ND | 330 | ug/kg | 06/13/97 |
| Benzo(a)anthracene | 56-55-3 | ND | 330 | ug/kg | 06/13/97 |
| Benzo(b)fluoranthene | 205-99-2 | ND | 330 | ug/kg | 06/13/97 |
| Benzo(k)fluoranthene | 207-08-9 | ND | 330 | ug/kg | 06/13/97 |
| Benzo(g,h,i)perylene | 191-24-2 | ND | 330 | ug/kg | 06/13/97 |
| Benzo(a)pyrene | 50-32-8 | ND | 330 | ug/kg | 06/13/97 |
| Chrysene | 218-01-9 | ND | 330 | ug/kg | 06/13/97 |
| Dibenzo(a,h)anthracene | 53-70-3 | ND | 330 | ug/kg | 06/13/97 |
| Fluoranthene | 206-44-0 | ND | 330 | ug/kg | 06/13/97 |
| Fluorene | 86-73-7 | ND | 330 | ug/kg | 06/13/97 |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | ND | 330 | ug/kg | 06/13/97 |
| Naphthalene | 91-20-3 | ND | 330 | ug/kg | 06/13/97 |
| Phenanthrene | 85-01-8 | ND | 330 | ug/kg | 06/13/97 |
| Pyrene | 129-00-0 | ND | 330 | ug/kg | 06/13/97 |

ND = Not detected at or above the reporting limit

* = Value at or above reporting limit

McCAMPBELL ANALYTICAL

SAMPLE ID: HOX1-S4
 AEN LAB NO: 9706171-03
 AEN WORK ORDER: 9706171
 CLIENT PROJ. ID: 8814

DATE SAMPLED: 06/12/97
 DATE RECEIVED: 06/12/97
 REPORT DATE: 06/18/97

| ANALYTE | METHOD/ CAS# | RESULT | REPORTING LIMIT | UNITS | DATE ANALYZED |
|------------------------|-----------------|--------|--------------------|------------|------------------|
| #Extraction for PNAs | EPA 3550 | - | | Extrn Date | 06/12/97 |
| PNAs by EPA 8270 | EPA 8270 | | | | |
| Acenaphthene | 83-32-9 | ND | 500 | ug/kg | 06/13/97 |
| Acenaphthylene | 208-96-8 | ND | 500 | ug/kg | 06/13/97 |
| Anthracene | 120-12-7 | ND | 500 | ug/kg | 06/13/97 |
| Benzo(a)anthracene | 56-55-3 | ND | 500 | ug/kg | 06/13/97 |
| Benzo(b)fluoranthene | 205-99-2 | ND | 500 | ug/kg | 06/13/97 |
| Benzo(k)fluoranthene | 207-08-9 | ND | 500 | ug/kg | 06/13/97 |
| Benzo(g,h,i)perylene | 191-24-2 | ND | 500 | ug/kg | 06/13/97 |
| Benzo(a)pyrene | 50-32-8 | ND | 500 | ug/kg | 06/13/97 |
| Chrysene | 218-01-9 | ND | 500 | ug/kg | 06/13/97 |
| Dibenzo(a,h)anthracene | 53-70-3 | ND | 500 | ug/kg | 06/13/97 |
| Fluoranthene | 206-44-0 | ND | 500 | ug/kg | 06/13/97 |
| Fluorene | 86-73-7 | ND | 500 | ug/kg | 06/13/97 |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | ND | 500 | ug/kg | 06/13/97 |
| Naphthalene | 91-20-3 | ND | 500 | ug/kg | 06/13/97 |
| Phenanthrene | 85-01-8 | ND | 500 | ug/kg | 06/13/97 |
| Pyrene | 129-00-0 | ND | 500 | ug/kg | 06/13/97 |

Less than normal amount of sample available for analysis; reporting limits elevated accordingly.

ND = Not detected at or above the reporting limit
 * = Value at or above reporting limit

McCAMPBELL ANALYTICAL

SAMPLE ID: HOX1-S5
 AEN LAB NO: 9706171-04
 AEN WORK ORDER: 9706171
 CLIENT PROJ. ID: 8814

DATE SAMPLED: 06/12/97
 DATE RECEIVED: 06/12/97
 REPORT DATE: 06/18/97

| ANALYTE | METHOD/ CAS# | RESULT | REPORTING LIMIT | UNITS | DATE ANALYZED |
|------------------------|-----------------|--------|--------------------|------------|------------------|
| #Extraction for PNAs | EPA 3550 | - | | Extrn Date | 06/12/97 |
| PNAs by EPA 8270 | EPA 8270 | | | | |
| Acenaphthene | 83-32-9 | ND | 330 | ug/kg | 06/13/97 |
| Acenaphthylene | 208-96-8 | ND | 330 | ug/kg | 06/13/97 |
| Anthracene | 120-12-7 | ND | 330 | ug/kg | 06/13/97 |
| Benzo(a)anthracene | 56-55-3 | ND | 330 | ug/kg | 06/13/97 |
| Benzo(b)fluoranthene | 205-99-2 | ND | 330 | ug/kg | 06/13/97 |
| Benzo(k)fluoranthene | 207-08-9 | ND | 330 | ug/kg | 06/13/97 |
| Benzo(g,h,i)perylene | 191-24-2 | ND | 330 | ug/kg | 06/13/97 |
| Benzo(a)pyrene | 50-32-8 | ND | 330 | ug/kg | 06/13/97 |
| Chrysene | 218-01-9 | ND | 330 | ug/kg | 06/13/97 |
| Dibenzo(a,h)anthracene | 53-70-3 | ND | 330 | ug/kg | 06/13/97 |
| Fluoranthene | 206-44-0 | ND | 330 | ug/kg | 06/13/97 |
| Fluorene | 86-73-7 | ND | 330 | ug/kg | 06/13/97 |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | ND | 330 | ug/kg | 06/13/97 |
| Naphthalene | 91-20-3 | ND | 330 | ug/kg | 06/13/97 |
| Phenanthrene | 85-01-8 | ND | 330 | ug/kg | 06/13/97 |
| Pyrene | 129-00-0 | ND | 330 | ug/kg | 06/13/97 |

ND = Not detected at or above the reporting limit

* = Value at or above reporting limit

McCAMPBELL ANALYTICAL

SAMPLE ID: HOX1-S6
 AEN LAB NO: 9706171-05
 AEN WORK ORDER: 9706171
 CLIENT PROJ. ID: 8814

DATE SAMPLED: 06/12/97
 DATE RECEIVED: 06/12/97
 REPORT DATE: 06/18/97

| ANALYTE | METHOD/ CAS# | RESULT | REPORTING LIMIT | UNITS | DATE ANALYZED |
|------------------------|-----------------|--------|--------------------|------------|------------------|
| #Extraction for PNAs | EPA 3550 | - | | Extrn Date | 06/12/97 |
| PNAs by EPA 8270 | EPA 8270 | | | | |
| Acenaphthene | 83-32-9 | ND | 500 | ug/kg | 06/13/97 |
| Acenaphthylene | 208-96-8 | ND | 500 | ug/kg | 06/13/97 |
| Anthracene | 120-12-7 | ND | 500 | ug/kg | 06/13/97 |
| Benzo(a)anthracene | 56-55-3 | ND | 500 | ug/kg | 06/13/97 |
| Benzo(b)fluoranthene | 205-99-2 | ND | 500 | ug/kg | 06/13/97 |
| Benzo(k)fluoranthene | 207-08-9 | ND | 500 | ug/kg | 06/13/97 |
| Benzo(g,h,i)perylene | 191-24-2 | ND | 500 | ug/kg | 06/13/97 |
| Benzo(a)pyrene | 50-32-8 | ND | 500 | ug/kg | 06/13/97 |
| Chrysene | 218-01-9 | ND | 500 | ug/kg | 06/13/97 |
| Dibenzo(a,h)anthracene | 53-70-3 | ND | 500 | ug/kg | 06/13/97 |
| Fluoranthene | 206-44-0 | ND | 500 | ug/kg | 06/13/97 |
| Fluorene | 86-73-7 | ND | 500 | ug/kg | 06/13/97 |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | ND | 500 | ug/kg | 06/13/97 |
| Naphthalene | 91-20-3 | ND | 500 | ug/kg | 06/13/97 |
| Phenanthrene | 85-01-8 | ND | 500 | ug/kg | 06/13/97 |
| Pyrene | 129-00-0 | ND | 500 | ug/kg | 06/13/97 |

Less than normal amount of sample available for analysis; reporting limits elevated accordingly.

ND = Not detected at or above the reporting limit

* = Value at or above reporting limit

McCAMPBELL ANALYTICAL

SAMPLE ID: HOX1-S9
 AEN LAB NO: 9706171-06
 AEN WORK ORDER: 9706171
 CLIENT PROJ. ID: 8814

DATE SAMPLED: 06/12/97
 DATE RECEIVED: 06/12/97
 REPORT DATE: 06/18/97

| ANALYTE | METHOD/ CAS# | RESULT | REPORTING LIMIT | UNITS | DATE ANALYZED |
|------------------------|-----------------|--------|--------------------|------------|------------------|
| #Extraction for PNAs | EPA 3550 | - | | Extrn Date | 06/12/97 |
| PNAs by EPA 8270 | EPA 8270 | | | | |
| Acenaphthene | 83-32-9 | ND | 330 | ug/kg | 06/13/97 |
| Acenaphthylene | 208-96-8 | ND | 330 | ug/kg | 06/13/97 |
| Anthracene | 120-12-7 | ND | 330 | ug/kg | 06/13/97 |
| Benzo(a)anthracene | 56-55-3 | ND | 330 | ug/kg | 06/13/97 |
| Benzo(b)fluoranthene | 205-99-2 | ND | 330 | ug/kg | 06/13/97 |
| Benzo(k)fluoranthene | 207-08-9 | ND | 330 | ug/kg | 06/13/97 |
| Benzo(g,h,i)perylene | 191-24-2 | ND | 330 | ug/kg | 06/13/97 |
| Benzo(a)pyrene | 50-32-8 | ND | 330 | ug/kg | 06/13/97 |
| Chrysene | 218-01-9 | ND | 330 | ug/kg | 06/13/97 |
| Dibenzo(a,h)anthracene | 53-70-3 | ND | 330 | ug/kg | 06/13/97 |
| Fluoranthene | 206-44-0 | ND | 330 | ug/kg | 06/13/97 |
| Fluorene | 86-73-7 | ND | 330 | ug/kg | 06/13/97 |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | ND | 330 | ug/kg | 06/13/97 |
| Naphthalene | 91-20-3 | ND | 330 | ug/kg | 06/13/97 |
| Phenanthrene | 85-01-8 | ND | 330 | ug/kg | 06/13/97 |
| Pyrene | 129-00-0 | ND | 330 | ug/kg | 06/13/97 |

ND = Not detected at or above the reporting limit

* = Value at or above reporting limit

McCAMPBELL ANALYTICAL

SAMPLE ID: HOX1-S10
 AEN LAB NO: 9706171-07
 AEN WORK ORDER: 9706171
 CLIENT PROJ. ID: 8814

DATE SAMPLED: 06/12/97
 DATE RECEIVED: 06/12/97
 REPORT DATE: 06/18/97

| ANALYTE | METHOD/ CAS# | RESULT | REPORTING LIMIT | UNITS | DATE ANALYZED |
|------------------------|-----------------|--------|--------------------|------------|------------------|
| #Extraction for PNAs | EPA 3550 | - | | Extrn Date | 06/12/97 |
| PNAs by EPA 8270 | EPA 8270 | | | | |
| Acenaphthene | 83-32-9 | ND | 330 | ug/kg | 06/13/97 |
| Acenaphthylene | 208-96-8 | ND | 330 | ug/kg | 06/13/97 |
| Anthracene | 120-12-7 | ND | 330 | ug/kg | 06/13/97 |
| Benzo(a)anthracene | 56-55-3 | ND | 330 | ug/kg | 06/13/97 |
| Benzo(b)fluoranthene | 205-99-2 | ND | 330 | ug/kg | 06/13/97 |
| Benzo(k)fluoranthene | 207-08-9 | ND | 330 | ug/kg | 06/13/97 |
| Benzo(g,h,i)perylene | 191-24-2 | ND | 330 | ug/kg | 06/13/97 |
| Benzo(a)pyrene | 50-32-8 | ND | 330 | ug/kg | 06/13/97 |
| Chrysene | 218-01-9 | ND | 330 | ug/kg | 06/13/97 |
| Dibenzo(a,h)anthracene | 53-70-3 | ND | 330 | ug/kg | 06/13/97 |
| Fluoranthene | 206-44-0 | ND | 330 | ug/kg | 06/13/97 |
| Fluorene | 86-73-7 | ND | 330 | ug/kg | 06/13/97 |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | ND | 330 | ug/kg | 06/13/97 |
| Naphthalene | 91-20-3 | ND | 330 | ug/kg | 06/13/97 |
| Phenanthrene | 85-01-8 | ND | 330 | ug/kg | 06/13/97 |
| Pyrene | 129-00-0 | ND | 330 | ug/kg | 06/13/97 |

ND = Not detected at or above the reporting limit

* = Value at or above reporting limit

McCAMPBELL ANALYTICAL

SAMPLE ID: HOX1-S11
 AEN LAB NO: 9706171-08
 AEN WORK ORDER: 9706171
 CLIENT PROJ. ID: 8814

DATE SAMPLED: 06/12/97
 DATE RECEIVED: 06/12/97
 REPORT DATE: 06/18/97

| ANALYTE | METHOD/ CAS# | RESULT | REPORTING LIMIT | UNITS | DATE ANALYZED |
|------------------------|-----------------|--------|--------------------|------------|------------------|
| #Extraction for PNAs | EPA 3550 | - | | Extrn Date | 06/12/97 |
| PNAs by EPA 8270 | EPA 8270 | | | | |
| Acenaphthene | 83-32-9 | ND | 500 | ug/kg | 06/13/97 |
| Acenaphthylene | 208-96-8 | ND | 500 | ug/kg | 06/13/97 |
| Anthracene | 120-12-7 | ND | 500 | ug/kg | 06/13/97 |
| Benzo(a)anthracene | 56-55-3 | ND | 500 | ug/kg | 06/13/97 |
| Benzo(b)fluoranthene | 205-99-2 | ND | 500 | ug/kg | 06/13/97 |
| Benzo(k)fluoranthene | 207-08-9 | ND | 500 | ug/kg | 06/13/97 |
| Benzo(g,h,i)perylene | 191-24-2 | ND | 500 | ug/kg | 06/13/97 |
| Benzo(a)pyrene | 50-32-8 | ND | 500 | ug/kg | 06/13/97 |
| Chrysene | 218-01-9 | ND | 500 | ug/kg | 06/13/97 |
| Dibenzo(a,h)anthracene | 53-70-3 | ND | 500 | ug/kg | 06/13/97 |
| Fluoranthene | 206-44-0 | ND | 500 | ug/kg | 06/13/97 |
| Fluorene | 86-73-7 | ND | 500 | ug/kg | 06/13/97 |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | ND | 500 | ug/kg | 06/13/97 |
| Naphthalene | 91-20-3 | ND | 500 | ug/kg | 06/13/97 |
| Phenanthrene | 85-01-8 | ND | 500 | ug/kg | 06/13/97 |
| Pyrene | 129-00-0 | ND | 500 | ug/kg | 06/13/97 |

Less than normal amount of sample available for analysis; reporting limits elevated accordingly.

ND = Not detected at or above the reporting limit

* = Value at or above reporting limit

McCAMPBELL ANALYTICAL

SAMPLE ID: 2HOX1-S1
 AEN LAB NO: 9706171-09
 AEN WORK ORDER: 9706171
 CLIENT PROJ. ID: 8814

DATE SAMPLED: 06/12/97
 DATE RECEIVED: 06/12/97
 REPORT DATE: 06/18/97

| ANALYTE | METHOD/ CAS# | RESULT | REPORTING LIMIT | UNITS | DATE ANALYZED |
|------------------------|-----------------|--------|--------------------|------------|------------------|
| #Extraction for PNAs | EPA 3550 | - | | Extrn Date | 06/12/97 |
| PNAs by EPA 8270 | EPA 8270 | | | | |
| Acenaphthene | 83-32-9 | ND | 330 | ug/kg | 06/13/97 |
| Acenaphthylene | 208-96-8 | ND | 330 | ug/kg | 06/13/97 |
| Anthracene | 120-12-7 | ND | 330 | ug/kg | 06/13/97 |
| Benzo(a)anthracene | 56-55-3 | ND | 330 | ug/kg | 06/13/97 |
| Benzo(b)fluoranthene | 205-99-2 | ND | 330 | ug/kg | 06/13/97 |
| Benzo(k)fluoranthene | 207-08-9 | ND | 330 | ug/kg | 06/13/97 |
| Benzo(g,h,i)perylene | 191-24-2 | ND | 330 | ug/kg | 06/13/97 |
| Benzo(a)pyrene | 50-32-8 | ND | 330 | ug/kg | 06/13/97 |
| Chrysene | 218-01-9 | ND | 330 | ug/kg | 06/13/97 |
| Dibenzo(a,h)anthracene | 53-70-3 | ND | 330 | ug/kg | 06/13/97 |
| Fluoranthene | 206-44-0 | ND | 330 | ug/kg | 06/13/97 |
| Fluorene | 86-73-7 | ND | 330 | ug/kg | 06/13/97 |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | ND | 330 | ug/kg | 06/13/97 |
| Naphthalene | 91-20-3 | ND | 330 | ug/kg | 06/13/97 |
| Phenanthrene | 85-01-8 | ND | 330 | ug/kg | 06/13/97 |
| Pyrene | 129-00-0 | ND | 330 | ug/kg | 06/13/97 |

ND = Not detected at or above the reporting limit

* = Value at or above reporting limit

McCAMPBELL ANALYTICAL

SAMPLE ID: 2HOX1-S2
 AEN LAB NO: 9706171-10
 AEN WORK ORDER: 9706171
 CLIENT PROJ. ID: 8814

DATE SAMPLED: 06/12/97
 DATE RECEIVED: 06/12/97
 REPORT DATE: 06/18/97

| ANALYTE | METHOD/ CAS# | RESULT | REPORTING LIMIT | UNITS | DATE ANALYZED |
|------------------------|-----------------|--------|--------------------|------------|------------------|
| #Extraction for PNAs | EPA 3550 | - | | Extrn Date | 06/12/97 |
| PNAs by EPA 8270 | EPA 8270 | | | | |
| Acenaphthene | 83-32-9 | ND | 330 | ug/kg | 06/13/97 |
| Acenaphthylene | 208-96-8 | ND | 330 | ug/kg | 06/13/97 |
| Anthracene | 120-12-7 | ND | 330 | ug/kg | 06/13/97 |
| Benzo(a)anthracene | 56-55-3 | ND | 330 | ug/kg | 06/13/97 |
| Benzo(b)fluoranthene | 205-99-2 | ND | 330 | ug/kg | 06/13/97 |
| Benzo(k)fluoranthene | 207-08-9 | ND | 330 | ug/kg | 06/13/97 |
| Benzo(g,h,i)perylene | 191-24-2 | ND | 330 | ug/kg | 06/13/97 |
| Benzo(a)pyrene | 50-32-8 | ND | 330 | ug/kg | 06/13/97 |
| Chrysene | 218-01-9 | ND | 330 | ug/kg | 06/13/97 |
| Dibenzo(a,h)anthracene | 53-70-3 | ND | 330 | ug/kg | 06/13/97 |
| Fluoranthene | 206-44-0 | ND | 330 | ug/kg | 06/13/97 |
| Fluorene | 86-73-7 | ND | 330 | ug/kg | 06/13/97 |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | ND | 330 | ug/kg | 06/13/97 |
| Naphthalene | 91-20-3 | ND | 330 | ug/kg | 06/13/97 |
| Phenanthrene | 85-01-8 | ND | 330 | ug/kg | 06/13/97 |
| Pyrene | 129-00-0 | ND | 330 | ug/kg | 06/13/97 |

ND = Not detected at or above the reporting limit

* = Value at or above reporting limit

McCAMPBELL ANALYTICAL

SAMPLE ID: 2HOX1-S3
 AEN LAB NO: 9706171-11
 AEN WORK ORDER: 9706171
 CLIENT PROJ. ID: 8814

DATE SAMPLED: 06/12/97
 DATE RECEIVED: 06/12/97
 REPORT DATE: 06/18/97

| ANALYTE | METHOD/ CAS# | RESULT | REPORTING LIMIT | UNITS | DATE ANALYZED |
|------------------------|-----------------|--------|--------------------|------------|------------------|
| #Extraction for PNAs | EPA 3550 | - | | Extrn Date | 06/12/97 |
| PNAs by EPA 8270 | EPA 8270 | | | | |
| Acenaphthene | 83-32-9 | ND | 330 | ug/kg | 06/13/97 |
| Acenaphthylene | 208-96-8 | ND | 330 | ug/kg | 06/13/97 |
| Anthracene | 120-12-7 | ND | 330 | ug/kg | 06/13/97 |
| Benzo(a)anthracene | 56-55-3 | ND | 330 | ug/kg | 06/13/97 |
| Benzo(b)fluoranthene | 205-99-2 | ND | 330 | ug/kg | 06/13/97 |
| Benzo(k)fluoranthene | 207-08-9 | ND | 330 | ug/kg | 06/13/97 |
| Benzo(g,h,i)perylene | 191-24-2 | ND | 330 | ug/kg | 06/13/97 |
| Benzo(a)pyrene | 50-32-8 | ND | 330 | ug/kg | 06/13/97 |
| Chrysene | 218-01-9 | ND | 330 | ug/kg | 06/13/97 |
| Dibenzo(a,h)anthracene | 53-70-3 | ND | 330 | ug/kg | 06/13/97 |
| Fluoranthene | 206-44-0 | ND | 330 | ug/kg | 06/13/97 |
| Fluorene | 86-73-7 | ND | 330 | ug/kg | 06/13/97 |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | ND | 330 | ug/kg | 06/13/97 |
| Naphthalene | 91-20-3 | ND | 330 | ug/kg | 06/13/97 |
| Phenanthrene | 85-01-8 | ND | 330 | ug/kg | 06/13/97 |
| Pyrene | 129-00-0 | ND | 330 | ug/kg | 06/13/97 |

ND = Not detected at or above the reporting limit

* = Value at or above reporting limit

McCAMPBELL ANALYTICAL

SAMPLE ID: 2HOX1-S4
 AEN LAB NO: 9706171-12
 AEN WORK ORDER: 9706171
 CLIENT PROJ. ID: 8814

DATE SAMPLED: 06/12/97
 DATE RECEIVED: 06/12/97
 REPORT DATE: 06/18/97

| ANALYTE | METHOD/ CAS# | RESULT | REPORTING LIMIT | UNITS | DATE ANALYZED |
|------------------------|-----------------|--------|--------------------|------------|------------------|
| #Extraction for PNAs | EPA 3550 | - | | Extrn Date | 06/12/97 |
| PNAs by EPA 8270 | EPA 8270 | | | | |
| Acenaphthene | 83-32-9 | ND | 330 | ug/kg | 06/13/97 |
| Acenaphthylene | 208-96-8 | ND | 330 | ug/kg | 06/13/97 |
| Anthracene | 120-12-7 | ND | 330 | ug/kg | 06/13/97 |
| Benzo(a)anthracene | 56-55-3 | ND | 330 | ug/kg | 06/13/97 |
| Benzo(b)fluoranthene | 205-99-2 | ND | 330 | ug/kg | 06/13/97 |
| Benzo(k)fluoranthene | 207-08-9 | ND | 330 | ug/kg | 06/13/97 |
| Benzo(g,h,i)perylene | 191-24-2 | ND | 330 | ug/kg | 06/13/97 |
| Benzo(a)pyrene | 50-32-8 | ND | 330 | ug/kg | 06/13/97 |
| Chrysene | 218-01-9 | ND | 330 | ug/kg | 06/13/97 |
| Dibenzo(a,h)anthracene | 53-70-3 | ND | 330 | ug/kg | 06/13/97 |
| Fluoranthene | 206-44-0 | ND | 330 | ug/kg | 06/13/97 |
| Fluorene | 86-73-7 | ND | 330 | ug/kg | 06/13/97 |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | ND | 330 | ug/kg | 06/13/97 |
| Naphthalene | 91-20-3 | ND | 330 | ug/kg | 06/13/97 |
| Phenanthrene | 85-01-8 | ND | 330 | ug/kg | 06/13/97 |
| Pyrene | 129-00-0 | ND | 330 | ug/kg | 06/13/97 |

ND = Not detected at or above the reporting limit

* = Value at or above reporting limit

AEN (CALIFORNIA)
QUALITY CONTROL REPORT

AEN JOB NUMBER: 9706171
CLIENT PROJECT ID: 8814

Quality Control and Project Summary

All laboratory quality control parameters were found to be within established limits.

Definitions

Laboratory Control Sample (LCS)/Method Spikes(s): Control samples of known composition. LCS and Method Spike data are used to validate batch analytical results.

Matrix Spike(s): Aliquot of a sample (aqueous or solid) with added quantities of specific compounds and subjected to the entire analytical procedure. Matrix spike and matrix spike duplicate QC data are advisory.

Method Blank: An analytical control consisting of all reagents, internal standards, and surrogate standards carried through the entire analytical process. Used to monitor laboratory background and reagent contamination.

Not Detected (ND): Not detected at or above the reporting limit.

Relative Percent Difference (RPD): An indication of method precision based on duplicate analyses.

Reporting Limit (RL): The lowest concentration routinely determined during laboratory operations. The RL is generally 1 to 10 times the Method Detection Limit (MDL). Reporting limits are matrix, method, and analyte dependent and take into account any dilutions performed as part of the analysis.

Surrogates: Organic compounds which are similar to analytes of interest in chemical behaviour, but are not found in environmental samples. Surrogates are added to all blanks, calibration and check standards, samples, and spiked samples. Surrogate recovery is monitored as an indication of acceptable sample preparation and instrument performance.

D: Surrogates diluted out.

I: Interference.

!: Indicates result outside of established laboratory QC limits.

WORK ORDER: 9706171

QUALITY CONTROL REPORT

PAGE QR-2

ANALYSIS: Semi-Volatile Organics

MATRIX: Soil/Bulk

METHOD BLANK SAMPLES

SAMPLE TYPE: Blank-Method/Media blank
 INSTRUMENT: HP-5890 for Semi-volatiles
 UNITS: ug/kg
 METHOD:

LAB ID: BLNK 0612
 PREPARED: 06/12/97
 ANALYZED: 06/12/97

INSTR RUN: GCMS10\970612000000/6/
 BATCH ID: BNAS060997
 DILUTION: 1.00

| ANALYTE | RESULT | REF RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|-----------------------------|--------|------------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | | LOW | HIGH | | |
| 2-Fluorophenol (surr) | 70.7 | | | 107 | 66.1 | 41 | 110 | | |
| Phenol-d5 (surr) | 68.8 | | | 101 | 68.1 | 50 | 127 | | |
| Nitrobenzene-d5 (surr) | 70.5 | | | 110 | 64.1 | 43 | 100 | | |
| 2-Fluorobiphenyl (surr) | 71.6 | | | 101 | 70.9 | 49 | 126 | | |
| 2,4,6-Tribromophenol (surr) | 66.0 | | | 103 | 64.1 | 55 | 125 | | |
| Terphenyl-d14 (surr) | 96.3 | | | 101 | 95.3 | 61 | 125 | | |
| Phenol | ND | | 330 | | | | | | |
| 2-Chlorophenol | ND | | 330 | | | | | | |
| 1,4-Dichlorobenzene | ND | | 330 | | | | | | |
| N-Nitrosodi-n-propylamine | ND | | 330 | | | | | | |
| 1,2,4-Trichlorobenzene | ND | | 330 | | | | | | |
| 4-Chloro-3-methylphenol | ND | | 330 | | | | | | |
| Acenaphthene | ND | | 330 | | | | | | |
| 4-Nitrophenol | ND | | 1600 | | | | | | |
| 2,4-Dinitrotoluene | ND | | 330 | | | | | | |
| Pentachlorophenol | ND | | 1600 | | | | | | |
| Pyrene | ND | | 330 | | | | | | |
| Acenaphthylene | ND | | 330 | | | | | | |
| Anthracene | ND | | 330 | | | | | | |
| Benzidine | ND | | 1600 | | | | | | |
| Benzoic Acid | ND | | 1600 | | | | | | |
| Benzo(a)anthracene | ND | | 330 | | | | | | |
| Benzo(b)fluoranthene | ND | | 330 | | | | | | |
| Benzo(k)fluoranthene | ND | | 330 | | | | | | |
| Benzo(g,h,i)perylene | ND | | 330 | | | | | | |
| Benzo(a)pyrene | ND | | 330 | | | | | | |
| Benzyl Alcohol | ND | | 660 | | | | | | |
| Bis(2-chloroethoxy)methane | ND | | 330 | | | | | | |
| Bis(2-chloroethyl) Ether | ND | | 330 | | | | | | |
| Bis(2-chloroisopropyl) Eth | ND | | 330 | | | | | | |
| Bis(2-ethylhexyl) Phthalat | ND | | 330 | | | | | | |
| 4-Bromophenyl Phenyl Ether | ND | | 330 | | | | | | |
| Butylbenzyl Phthalate | ND | | 330 | | | | | | |
| 4-Chloroaniline | ND | | 660 | | | | | | |
| 2-Chloronaphthalene | ND | | 330 | | | | | | |
| 4-Chlorophenyl Phenyl Ether | ND | | 330 | | | | | | |
| Chrysene | ND | | 330 | | | | | | |
| Dibenzo(a,h)anthracene | ND | | 330 | | | | | | |
| Dibenzofuran | ND | | 330 | | | | | | |
| Di-n-butyl Phthalate | ND | | 330 | | | | | | |
| 1,2-Dichlorobenzene | ND | | 330 | | | | | | |
| 1,3-Dichlorobenzene | ND | | 330 | | | | | | |
| 3,3'-Dichlorobenzidine | ND | | 660 | | | | | | |
| Diethyl Phthalate | ND | | 330 | | | | | | |
| Dimethyl Phthalate | ND | | 330 | | | | | | |
| 2,6-Dinitrotoluene | ND | | 330 | | | | | | |
| Di-n-octyl Phthalate | ND | | 330 | | | | | | |
| 1,2-Diphenylhydrazine | ND | | 330 | | | | | | |
| Fluoranthene | ND | | 330 | | | | | | |
| Fluorene | ND | | 330 | | | | | | |
| Hexachlorobenzene | ND | | 330 | | | | | | |
| Hexachlorobutadiene | ND | | 330 | | | | | | |
| Hexachlorocyclopentadiene | ND | | 330 | | | | | | |
| Hexachloroethane | ND | | 330 | | | | | | |
| Indeno(1,2,3-cd)pyrene | ND | | 330 | | | | | | |
| Isophorone | ND | | 330 | | | | | | |
| 2-Methylnaphthalene | ND | | 330 | | | | | | |
| Naphthalene | ND | | 330 | | | | | | |
| 2-Nitroaniline | ND | | 1600 | | | | | | |
| 3-Nitroaniline | ND | | 1600 | | | | | | |
| 4-Nitroaniline | ND | | 1600 | | | | | | |
| Nitrobenzene | ND | | 330 | | | | | | |
| N-Nitrosodimethylamine | ND | | 330 | | | | | | |
| N-Nitrosodiphenylamine | ND | | 330 | | | | | | |
| Phenanthrene | ND | | 330 | | | | | | |
| 2,4-Dichlorophenol | ND | | 330 | | | | | | |

WORK ORDER: 9706171

QUALITY CONTROL REPORT

PAGE QR-3

ANALYSIS: Semi-Volatile Organics

MATRIX: Soil/Bulk

METHOD BLANK SAMPLES

SAMPLE TYPE: Blank-Method/Media blank
 INSTRUMENT: HP-5890 for Semi-volatiles
 UNITS: ug/kg
 METHOD:

LAB ID: BLNK 0612
 PREPARED: 06/12/97
 ANALYZED: 06/12/97

INSTR RUN: GCMS10\970612000000/6/
 BATCH ID: BNAS060997
 DILUTION: 1.00

| ANALYTE | RESULT | REF RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|----------------------------|--------|------------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | | LOW | HIGH | | |
| 2,4-Dimethylphenol | ND | | 330 | | | | | | |
| 4,6-Dinitro-2-methylphenol | ND | | 1600 | | | | | | |
| 2,4-Dinitrophenol | ND | | 1600 | | | | | | |
| 2-Methylphenol | ND | | 330 | | | | | | |
| 4-Methylphenol | ND | | 330 | | | | | | |
| 2-Nitrophenol | ND | | 330 | | | | | | |
| 2,4,5-Trichlorophenol | ND | | 330 | | | | | | |
| 2,4,6-Trichlorophenol | ND | | 330 | | | | | | |

METHOD SPIKE SAMPLES

SAMPLE TYPE: Laboratory Control Spike
 INSTRUMENT: HP-5890 for Semi-volatiles
 UNITS: ug/kg
 METHOD:

LAB ID: LCD 0612
 PREPARED: 06/12/97
 ANALYZED: 06/12/97

INSTR RUN: GCMS10\970612000000/8/6
 BATCH ID: BNAS060997
 DILUTION: 1.00

| ANALYTE | RESULT | REF RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|-----------------------------|--------|------------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | | LOW | HIGH | | |
| 2-Fluorophenol (surr) | 66.0 | 70.7 | | 107 | 61.7 | 41 | 110 | | |
| Phenol-d5 (surr) | 64.9 | 68.8 | | 101 | 64.3 | 50 | 127 | | |
| Nitrobenzene-d5 (surr) | 65.7 | 70.5 | | 110 | 59.7 | 43 | 100 | | |
| 2-Fluorobiphenyl (surr) | 68.3 | 71.6 | | 101 | 67.6 | 49 | 126 | | |
| 2,4,6-Tribromophenol (surr) | 65.1 | 66.0 | | 103 | 63.2 | 55 | 125 | | |
| Terphenyl-d14 (surr) | 88.1 | 96.3 | | 101 | 87.2 | 61 | 125 | | |
| Phenol | 1610 | ND | 330 | 2940 | 54.76 | 41 | 125 | | |
| 2-Chlorophenol | 1880 | ND | 330 | 2980 | 63.09 | 45 | 132 | | |
| 1,4-Dichlorobenzene | 1860 | ND | 330 | 2970 | 62.63 | 24 | 126 | | |
| N-Nitrosodi-n-propylamine | 2050 | ND | 330 | 2750 | 74.55 | 60 | 129 | | |
| 1,2,4-Trichlorobenzene | 2010 | ND | 330 | 3290 | 61.09 | 38 | 123 | | |
| 4-Chloro-3-methylphenol | 1860 | ND | 330 | 2960 | 62.84 | 49 | 145 | | |
| Acenaphthene | 1900 | ND | 330 | 2790 | 68.10 | 50 | 129 | | |
| 4-Nitrophenol | 1560 | ND | 1600 | 2960 | 52.70 | 29 | 139 | | |
| 2,4-Dinitrotoluene | 2720 | ND | 330 | 3810 | 71.39 | 53 | 127 | | |
| Pentachlorophenol | 1350 | ND | 1600 | 2770 | 48.74 | 13 | 171 | | |
| Pyrene | 3120 | ND | 330 | 3580 | 87.15 | 40 | 130 | | |

SAMPLE TYPE: Laboratory Control Spike
 INSTRUMENT: HP-5890 for Semi-volatiles
 UNITS: ug/kg
 METHOD:

LAB ID: LCS 0612
 PREPARED: 06/12/97
 ANALYZED: 06/12/97

INSTR RUN: GCMS10\970612000000/7/6
 BATCH ID: BNAS060997
 DILUTION: 1.00

| ANALYTE | RESULT | REF RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|-----------------------------|--------|------------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | | LOW | HIGH | | |
| 2-Fluorophenol (surr) | 66.3 | 70.7 | | 107 | 62.0 | 41 | 110 | | |
| Phenol-d5 (surr) | 64.4 | 68.8 | | 101 | 63.8 | 50 | 127 | | |
| Nitrobenzene-d5 (surr) | 65.8 | 70.5 | | 110 | 59.8 | 43 | 100 | | |
| 2-Fluorobiphenyl (surr) | 66.8 | 71.6 | | 101 | 66.1 | 49 | 126 | | |
| 2,4,6-Tribromophenol (surr) | 68.2 | 66.0 | | 103 | 66.2 | 55 | 125 | | |
| Terphenyl-d14 (surr) | 86.9 | 96.3 | | 101 | 86.0 | 61 | 125 | | |
| Phenol | 1660 | ND | 330 | 2940 | 56.46 | 41 | 125 | | |
| 2-Chlorophenol | 1910 | ND | 330 | 2980 | 64.09 | 45 | 132 | | |
| 1,4-Dichlorobenzene | 1930 | ND | 330 | 2970 | 64.98 | 24 | 126 | | |
| N-Nitrosodi-n-propylamine | 2080 | ND | 330 | 2750 | 75.64 | 60 | 129 | | |
| 1,2,4-Trichlorobenzene | 2040 | ND | 330 | 3290 | 62.01 | 38 | 123 | | |
| 4-Chloro-3-methylphenol | 1920 | ND | 330 | 2960 | 64.86 | 49 | 145 | | |
| Acenaphthene | 1970 | ND | 330 | 2790 | 70.61 | 50 | 129 | | |
| 4-Nitrophenol | 1500 | ND | 1600 | 2960 | 50.68 | 29 | 139 | | |
| 2,4-Dinitrotoluene | 2710 | ND | 330 | 3810 | 71.13 | 53 | 127 | | |
| Pentachlorophenol | 1240 | ND | 1600 | 2770 | 44.77 | 13 | 171 | | |
| Pyrene | 3130 | ND | 330 | 3580 | 87.43 | 40 | 130 | | |

WORK ORDER: 9706171

QUALITY CONTROL REPORT

PAGE QR-5

ANALYSIS: Semi-Volatile Organics

MATRIX: Soil/Bulk

SAMPLE SURROGATES

SAMPLE TYPE: Sample-Client LAB ID: 9706171-04A INSTR RUN: GCMS10\970612000000/13/
 INSTRUMENT: HP-5890 for Semi-volatiles PREPARED: 06/12/97 BATCH ID: BNAS060997
 UNITS: ug/kg ANALYZED: 06/13/97 DILUTION: 1.00
 METHOD:

| ANALYTE | RESULT | REF RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|-----------------------------|--------|------------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | | LOW | HIGH | | |
| 2-Fluorophenol (surr) | 63.7 | | | 107 | 59.5 | 41 | 110 | | |
| Phenol-d5 (surr) | 62.7 | | | 101 | 62.1 | 50 | 127 | | |
| Nitrobenzene-d5 (surr) | 61.0 | | | 110 | 55.5 | 43 | 100 | | |
| 2-Fluorobiphenyl (surr) | 63.4 | | | 101 | 62.8 | 49 | 126 | | |
| 2,4,6-Tribromophenol (surr) | 72.9 | | | 103 | 70.8 | 55 | 125 | | |
| Terphenyl-d14 (surr) | 85.3 | | | 101 | 84.5 | 61 | 125 | | |

SAMPLE TYPE: Sample-Client LAB ID: 9706171-05A INSTR RUN: GCMS10\970612000000/14/
 INSTRUMENT: HP-5890 for Semi-volatiles PREPARED: 06/12/97 BATCH ID: BNAS060997
 UNITS: ug/kg ANALYZED: 06/13/97 DILUTION: 1.00
 METHOD:

| ANALYTE | RESULT | REF RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|-----------------------------|--------|------------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | | LOW | HIGH | | |
| 2-Fluorophenol (surr) | 74.5 | | | 107 | 69.6 | 41 | 110 | | |
| Phenol-d5 (surr) | 74.9 | | | 101 | 74.2 | 50 | 127 | | |
| Nitrobenzene-d5 (surr) | 73.6 | | | 110 | 66.9 | 43 | 100 | | |
| 2-Fluorobiphenyl (surr) | 74.2 | | | 101 | 73.5 | 49 | 126 | | |
| 2,4,6-Tribromophenol (surr) | 70.1 | | | 103 | 68.1 | 55 | 125 | | |
| Terphenyl-d14 (surr) | 88.3 | | | 101 | 87.4 | 61 | 125 | | |

SAMPLE TYPE: Sample-Client LAB ID: 9706171-06A INSTR RUN: GCMS10\970612000000/15/
 INSTRUMENT: HP-5890 for Semi-volatiles PREPARED: 06/12/97 BATCH ID: BNAS060997
 UNITS: ug/kg ANALYZED: 06/13/97 DILUTION: 1.00
 METHOD:

| ANALYTE | RESULT | REF RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|-----------------------------|--------|------------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | | LOW | HIGH | | |
| 2-Fluorophenol (surr) | 61.8 | | | 107 | 57.8 | 41 | 110 | | |
| Phenol-d5 (surr) | 61.6 | | | 101 | 61.0 | 50 | 127 | | |
| Nitrobenzene-d5 (surr) | 60.2 | | | 110 | 54.7 | 43 | 100 | | |
| 2-Fluorobiphenyl (surr) | 61.7 | | | 101 | 61.1 | 49 | 126 | | |
| 2,4,6-Tribromophenol (surr) | 58.0 | | | 103 | 56.3 | 55 | 125 | | |
| Terphenyl-d14 (surr) | 80.3 | | | 101 | 79.5 | 61 | 125 | | |

SAMPLE TYPE: Sample-Client LAB ID: 9706171-07A INSTR RUN: GCMS10\970612000000/16/
 INSTRUMENT: HP-5890 for Semi-volatiles PREPARED: 06/12/97 BATCH ID: BNAS060997
 UNITS: ug/kg ANALYZED: 06/13/97 DILUTION: 1.00
 METHOD:

| ANALYTE | RESULT | REF RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|-----------------------------|--------|------------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | | LOW | HIGH | | |
| 2-Fluorophenol (surr) | 65.4 | | | 107 | 61.1 | 41 | 110 | | |
| Phenol-d5 (surr) | 64.3 | | | 101 | 63.7 | 50 | 127 | | |
| Nitrobenzene-d5 (surr) | 63.2 | | | 110 | 57.5 | 43 | 100 | | |
| 2-Fluorobiphenyl (surr) | 66.3 | | | 101 | 65.6 | 49 | 126 | | |
| 2,4,6-Tribromophenol (surr) | 58.1 | | | 103 | 56.4 | 55 | 125 | | |
| Terphenyl-d14 (surr) | 79.2 | | | 101 | 78.4 | 61 | 125 | | |

SAMPLE TYPE: Sample-Client LAB ID: 9706171-08A INSTR RUN: GCMS10\970612000000/17/
 INSTRUMENT: HP-5890 for Semi-volatiles PREPARED: 06/12/97 BATCH ID: BNAS061297
 UNITS: ug/kg ANALYZED: 06/13/97 DILUTION: 1.00
 METHOD:

| ANALYTE | RESULT | REF RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|-----------------------------|--------|------------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | | LOW | HIGH | | |
| 2-Fluorophenol (surr) | 70.7 | | | 107 | 66.1 | 41 | 110 | | |
| Phenol-d5 (surr) | 70.9 | | | 101 | 70.2 | 50 | 127 | | |
| Nitrobenzene-d5 (surr) | 69.2 | | | 110 | 62.9 | 43 | 100 | | |
| 2-Fluorobiphenyl (surr) | 71.6 | | | 101 | 70.9 | 49 | 126 | | |
| 2,4,6-Tribromophenol (surr) | 67.5 | | | 103 | 65.5 | 55 | 125 | | |
| Terphenyl-d14 (surr) | 88.0 | | | 101 | 87.1 | 61 | 125 | | |

WORK ORDER: 9706171

QUALITY CONTROL REPORT

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ANALYSIS: Semi-Volatile Organics

MATRIX: Soil/Bulk

SAMPLE SURROGATES

SAMPLE TYPE: Sample-Client LAB ID: 9706171-09A INSTR RUN: GCMS10\970612000000/18/
 INSTRUMENT: HP-5890 for Semi-volatiles PREPARED: 06/12/97 BATCH ID: BNAS061297
 UNITS: ug/kg ANALYZED: 06/13/97 DILUTION: 1.00
 METHOD:

| ANALYTE | RESULT | REF RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|-----------------------------|--------|------------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | | LOW | HIGH | | |
| 2-Fluorophenol (surr) | 61.1 | | | 107 | 57.1 | 41 | 110 | | |
| Phenol-d5 (surr) | 60.9 | | | 101 | 60.3 | 50 | 127 | | |
| Nitrobenzene-d5 (surr) | 59.5 | | | 110 | 54.1 | 43 | 100 | | |
| 2-Fluorobiphenyl (surr) | 62.6 | | | 101 | 62.0 | 49 | 126 | | |
| 2,4,6-Tribromophenol (surr) | 65.4 | | | 103 | 63.5 | 55 | 125 | | |
| Terphenyl-d14 (surr) | 84.3 | | | 101 | 83.5 | 61 | 125 | | |

SAMPLE TYPE: Sample-Client LAB ID: 9706171-10A INSTR RUN: GCMS10\970612000000/19/
 INSTRUMENT: HP-5890 for Semi-volatiles PREPARED: 06/12/97 BATCH ID: BNAS061297
 UNITS: ug/kg ANALYZED: 06/13/97 DILUTION: 1.00
 METHOD:

| ANALYTE | RESULT | REF RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|-----------------------------|--------|------------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | | LOW | HIGH | | |
| 2-Fluorophenol (surr) | 65.7 | | | 107 | 61.4 | 41 | 110 | | |
| Phenol-d5 (surr) | 66.8 | | | 101 | 66.1 | 50 | 127 | | |
| Nitrobenzene-d5 (surr) | 64.0 | | | 110 | 58.2 | 43 | 100 | | |
| 2-Fluorobiphenyl (surr) | 66.4 | | | 101 | 65.7 | 49 | 126 | | |
| 2,4,6-Tribromophenol (surr) | 63.7 | | | 103 | 61.8 | 55 | 125 | | |
| Terphenyl-d14 (surr) | 79.7 | | | 101 | 78.9 | 61 | 125 | | |

SAMPLE TYPE: Sample-Client LAB ID: 9706171-11A INSTR RUN: GCMS10\970613000000/1/
 INSTRUMENT: HP-5890 for Semi-volatiles PREPARED: 06/12/97 BATCH ID: BNAS061297
 UNITS: ug/kg ANALYZED: 06/13/97 DILUTION: 1.00
 METHOD:

| ANALYTE | RESULT | REF RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|-----------------------------|--------|------------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | | LOW | HIGH | | |
| 2-Fluorophenol (surr) | 73.3 | | | 107 | 68.5 | 41 | 110 | | |
| Phenol-d5 (surr) | 73.5 | | | 101 | 72.8 | 50 | 127 | | |
| Nitrobenzene-d5 (surr) | 68.4 | | | 110 | 62.2 | 43 | 100 | | |
| 2-Fluorobiphenyl (surr) | 66.8 | | | 101 | 66.1 | 49 | 126 | | |
| 2,4,6-Tribromophenol (surr) | 57.2 | | | 103 | 55.5 | 55 | 125 | | |
| Terphenyl-d14 (surr) | 77.5 | | | 101 | 76.7 | 61 | 125 | | |

SAMPLE TYPE: Sample-Client LAB ID: 9706171-12A INSTR RUN: GCMS10\970613000000/2/
 INSTRUMENT: HP-5890 for Semi-volatiles PREPARED: 06/12/97 BATCH ID: BNAS061297
 UNITS: ug/kg ANALYZED: 06/13/97 DILUTION: 1.00
 METHOD:

| ANALYTE | RESULT | REF RESULT | REPORTING LIMIT | SPIKE VALUE | RECOVERY (%) | REC LIMITS (%) | | RPD (%) | RPD LIMIT (%) |
|-----------------------------|--------|------------|-----------------|-------------|--------------|----------------|------|---------|---------------|
| | | | | | | LOW | HIGH | | |
| 2-Fluorophenol (surr) | 71.7 | | | 107 | 67.0 | 41 | 110 | | |
| Phenol-d5 (surr) | 71.9 | | | 101 | 71.2 | 50 | 127 | | |
| Nitrobenzene-d5 (surr) | 67.3 | | | 110 | 61.2 | 43 | 100 | | |
| 2-Fluorobiphenyl (surr) | 66.8 | | | 101 | 66.1 | 49 | 126 | | |
| 2,4,6-Tribromophenol (surr) | 57.8 | | | 103 | 56.1 | 55 | 125 | | |
| Terphenyl-d14 (surr) | 84.9 | | | 101 | 84.1 | 61 | 125 | | |

----- End of Quality Control Report -----

8846 XGP324

| PROJECT NUMBER C95041 | | PROJECT NAME Walsh Pacific / CBMUD | | | | Number of Cntnrs | Type of Containers TPG / PAK / MISC | Type of Analysis | | | | | | Condition of Samples | Initial |
|--|----------------|--|--|--------------------------|-----------------------------------|--|---|------------------|--|--|--|--|--|----------------------|---------|
| Send Report Attention of: DAVID GLICK | | Report Due 1 1 | | Verbal Due 1 1 | | | | | | | | | | | |
| Sample Number | Date | Time | Comp | Grab | Station Location | | | | | | | | | | |
| 20X1-512B | 6/18/97 | 1214 | | 1 | E. END OF S. WAL - 5' | 1 EA | ULTRACLEAN STEEL | | | | | | | | |
| | | | | | | VDAS LOG METALS OTHER ICE/T <input checked="" type="checkbox"/> GOOD CONDITION HEAD SPACE ABSENT <input checked="" type="checkbox"/> PRESERVATIVE APPROPRIATE CONTAINERS | | | | | | | | | |
| Relinquished by: (Signature) <i>[Signature]</i> | | Date/Time 6-18-97 12:59 | Received by: (Signature) <i>[Signature]</i> | | Date/Time 6-18-97 12:59 | Remarks: 24 Hour TWSH | | | | | | | | | |
| Relinquished by: (Signature) | | Date/Time | Received by: (Signature) | | Date/Time | | | | | | | | | | |
| Relinquished by: (Signature) | | Date/Time | Received by: (Signature) | | Date/Time | | | | | | | | | | |

QC REPORT FOR HYDROCARBON ANALYSES

Date: 06/18/97-06/19/97

Matrix: Soil

| Analyte | Concentration (mg/kg) Sample (#75871) | | | Amount Spiked | % Recovery | | RPD |
|--------------------------|---|-------|-------|------------------|------------|-----|-----|
| | MS | MSD | | | MS | MSD | |
| TPH (gas) | 0.000 | 2.128 | 2.183 | 2.03 | 105 | 108 | 2.6 |
| Benzene | 0.000 | 0.186 | 0.196 | 0.2 | 93 | 98 | 5.2 |
| Toluene | 0.000 | 0.192 | 0.202 | 0.2 | 96 | 101 | 5.1 |
| Ethylbenzene | 0.000 | 0.192 | 0.202 | 0.2 | 96 | 101 | 5.1 |
| Xylenes | 0.000 | 0.560 | 0.586 | 0.6 | 93 | 98 | 4.5 |
| TPH (diesel) | 0 | 348 | 347 | 300 | 116 | 116 | 0.3 |
| TRPH (oil and grease) | 0.0 | 28.0 | 27.3 | 27.3 | 103 | 100 | 2.5 |

$$\% \text{ Rec.} = (\text{MS} - \text{Sample}) / \text{amount spiked} \times 100$$

$$\text{RPD} = (\text{MS} - \text{MSD}) / (\text{MS} + \text{MSD}) \times 2 \times 100$$