

ENVIRONMENTAL
PROTECTION
96 JUN -4 PM 1:30

June 3, 1996

Ms. Juliet Shin
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway, Second Floor
Alameda, CA 94502

Dear Ms. Shin:

Subject: Transmittal of the AMC Phase 1 Construction Materials Management Final Report, East Bay Municipal Utility District, Adeline Maintenance Center

Enclosed is a copy of the above referenced report for your review and comment. The report documents compliance with the requirements of the Materials Management Plan (MMP) for remediation of soil and groundwater within the AMC property. Specifically, the report details the soil removal activities conducted in Block 4 - the new fleet maintenance building, the construction of which, comprises the phase 1 AMC construction. Please review the attached and give me a call to discuss any comments.

The current schedule for phase 2 AMC construction is to begin site investigation/remedial activities in Block 2, sometime in September and October 1996. An addendum to the MMP, documenting proposed additional investigation activities and excavation protocols will be prepared and submitted to you for review and concurrence prior to beginning the work.

Sincerely,

A handwritten signature in cursive script that reads 'Eileen Fanelli'.

EILEEN FANELLI
Senior Environmental Compliance Specialist

EF:prb

cc: David Tsztoo/EBMUD
Project file

EC96285

May 29, 1996

ENVIRONMENTAL
PROTECTION
96 JUN 14 PM 1:30

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

Subject: AMC Phase 1- Construction Materials Management Final Report for
East Bay Municipal Utility District Adeline Maintenance Center, Oakland, CA

Dear Mr. Perotti

Geo Plexus, Incorporated is pleased to provide the attached AMC Phase 1- 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 1 construction soil excavation and construction dewatering activities along with a summary of the manifest documents for transport of the contaminated soil and the certificate of off-site thermal treatment for the soils

The field observations and analytical test data support our conclusion that the remedial objectives as set forth in the Materials Management Plan were accomplished. Additional investigation or remedial action is not warranted.

The report also includes the documentation for the additional surface soil and test-pit sampling activities at the former welding shop in accordance with the request/directive from Alameda County.

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

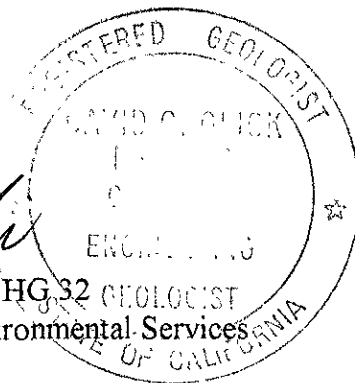


Kimberly F. Leeds,
President

cc: C95041



David C. Glick, CEG 1338, HG 32
Director, Geologic and Environmental Services



**FINAL REPORT
AMC PHASE 1- 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

May 29, 1996

**FINAL REPORT
AMC PHASE 1- CONSTRUCTION
MATERIALS MANAGEMENT REPORT
EAST BAY MUNICIPAL UTILITY DISTRICT
ADELINE MAINTENANCE CENTER
1200 21st STREET
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**FINAL REPORT
AMC PHASE 1- CONSTRUCTION
MATERIALS MANAGEMENT REPORT
EAST BAY MUNICIPAL UTILITY DISTRICT
ADELINE MAINTENANCE CENTER
1200 21st STREET
OAKLAND, CALIFORNIA**

APPENDICES

- Appendix A - Test Pit Analytical Test Data
- Appendix B - Analytical Testing Laboratory Certification
- Appendix C - Summary of Transportation Manifest Documents
- Appendix D - Soil Excavation Analytical Test Data
- Appendix E - Excavation Water Analytical Test Data
- Appendix F - Certificate of Thermal Destruction of Contaminated Soils

**FINAL REPORT
AMC PHASE 1- CONSTRUCTION
MATERIALS MANAGEMENT REPORT
EAST BAY MUNICIPAL UTILITY DISTRICT
ADELINE MAINTENANCE CENTER
1200 21st STREET
OAKLAND, CALIFORNIA**

FIGURES

Figure 1	Location Plan
Figure 2	Phase 1 Site Plan
Figure 3	Preliminary Site Assessment Boring Plan
Figure 4	Phase 1 Test Pit Location Plan
Figure 5	Phase 1 Excavation Plan
Figure 6	Phase 1 Soil Sample Plan

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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AMC PHASE 1- CONSTRUCTION
MATERIALS MANAGEMENT REPORT
EAST BAY MUNICIPAL UTILITY DISTRICT
ADELINE MAINTENANCE CENTER
1200 21st STREET
OAKLAND, CALIFORNIA**

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 will be completed in 3-phases over a 2-year period ending approximately November, 1997.

This report addresses the remedial soil excavation activities associated with Phase-1 of the construction sequence for the planned Fleet Maintenance 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

A Materials Management Plan (MMP) for the EBMUD AMC was prepared by Geo Plexus, Inc., (dated January 18, 1996) which presented the general history of the project site, presented an evaluation of human and environmental risks associated with the known soil contaminants, presented threshold criteria for the soil and ground water, and presented 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 (dated January 22, 1996) 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.

1.2 PREVIOUS INVESTIGATIVE ACTION

It is understood that 2 underground storage tanks (10,000 gallon diesel and 500 gallon gas) were removed from the AMC Phase 1 construction site in 1986. To date, no records of these tanks have been identified.

A preliminary site assessment was performed by Geo Plexus, Inc. in February, 1995 which included advancing soil borings across the AMC. Four exploration borings (B6-1, B6-2, B6-3, and B6-4) were advanced within the Phase 1 project site as indicated on Figures 3 and 4. In January, 1996 WPC advanced 3 shallow test pits (TP-1 through TP-3) within the planned "footprint" of the Fleet Maintenance Building at the locations indicated on Figure 4 and soil samples were obtained by Geo Plexus, Inc personnel for supplemental testing. Specifics of these investigation activities were presented in the MMP and Addendum No. 1.

1.3 SUPPLEMENTAL INVESTIGATIONS

In January, 1996, Geo Plexus, Inc personnel observed the advancement of additional test pits at the AMC Phase 1 Fleet Maintenance Building construction site and obtained soil samples to further evaluate the petroleum impacted soils and to obtain soil samples for pre-characterization for disposal of the excavated soil (Geo Plexus Letter Report dated February 14, 1996). The analytical test data for these test pit samples has been included herein as Appendix A. Figure 4 indicates the locations of the additional test pits (identified as TP-4 through TP-12).

At the request/direction of Alameda County, test pits TP-9, 10, 11, and 12 were advanced within the area of the former welding shop to evaluate the potential for elevated levels of lead and Polynuclear Aromatic Hydrocarbons (PNA's) to exist in the soil. The locations of these test pits are indicated on Figure 4. The results of this investigation were presented in a Geo Plexus Letter Report dated February 2, 1996 and the analytical test data has been included in Appendix A. In summary, PNA's were not detected in the soil samples and the lead concentrations ranged from 10 to 280 ppm).

Alameda County subsequently requested that an additional test pit (TP-13) be advanced at the location of Boring B6-1 (see Figure 5) to collect a soil sample at a depth of 5-feet below the original ground surface elevation and to collect two surface soil samples (SF-1 and SF-2) from the former welding shop site for additional lead evaluation.

The soil sample from the Test Pit TP-13 was obtained utilizing a backhoe and was collected by advancing a pre-cleaned 2 inch I.D. stainless steel liner into the undisturbed soil contained in the backhoe bucket. The surface soil samples were obtained by scarifying the surface with a shovel and advancing a stainless steel liner directly into the undisturbed soil. 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 B. 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 samples were tested for:

TTLIC Lead by CCR Title 22 Methods.
pH by EPA Method 150.1

The chain-of-custody forms and analytical test data are also included in Appendix A.

The 5-foot depth sample from TP-13 contained concentrations of lead at 4.3 ppm, significantly below the concentration of 2,600 ppm detected in the 3-foot sample from Boring 6-1. The concentrations of lead detect in the surface soil samples ranged from 440 to 970 ppm and the pH of the soil was within normal range for the local soils. Based on the analytical testing of the soil samples from the welding shop area, the data suggests that the observed high concentration of lead at the 3-foot sample from Boring 6-1 was an isolated occurrence and is not representative of the area. Furthermore, the test pit and surface sample data indicate that the lead concentrations of lead are below the TTLIC (1,000 ppm) and there is not a significant exposure risk from these soils. *because the soil will be paved.*

2.0 EXCAVATION THRESHOLD CRITERIA

The following outlines the threshold criteria for specific contaminants of concern at the AMC site as presented in the MMP (as revised based on Alameda County review comments and Addendum No. 1):

TABLE 1

THRESHOLD VALUES FOR SOIL

Constituent	Threshold Values for Within Building Footprint Tri-Regional Guidelines	Threshold Values for Outside Building Footprint RBSL to Protect Ground Water
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	361 ppm
Ethylbenzene	1 ppm	133 ppm
Xylenes	1 ppm	not applicable

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 of the proposed footprints of the planned structures would be excavated to concentrations below the ASTM-RBCA Tier-1 RBSL's.

3.0 REMEDIAL ACTION METHODOLOGIES

Based on the established threshold values, the petroleum contaminated soil at the Phase 1 site (see Figure 5) was excavated and transported as non-hazardous waste for off-site thermal treatment and disposal. 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 excavation was initiated in the northeast corner of the known limits of the soil contamination (near test pit TP-5 as indicated on Figure 5) and proceeded southerly and westerly based on field indicators and analytical test data. The excavation was accomplished with an excavator and the soil was directly loaded for off-haul for off-site thermal treatment (discussed later in the report).

The excavation was extended laterally to the south and west and extended vertically to abate any impacted soil which was exceeded the threshold limits. Figure 5 illustrates the extent and configuration of the final excavation. Approximately 1,900 yards (3,265 tons) of soil were removed from the excavation. A summary of the transportation manifest documents are included as Appendix C.

3.2 EXCAVATION SOIL CHARACTERIZATION

The excavation was observed and logged under the direct oversight of a Certified Engineering Geologist from Geo Plexus. Soil samples were obtained from the sidewalls and from the base of the excavation as the excavation proceeded to determine the limits of the excavation based on the established threshold criteria and to document and classify the soil materials.

The soils exposed in the sidewalls and base of the excavation were screened in the field through the use of an Photovac 200 Organic Vapor Meter (OVM) as the excavation proceeded. In addition to the vapor monitoring, soil samples were collected and analyzed in the field for presence of petroleum hydrocarbons with field test kits from Arts Manufacturing Supply. These test kits were used to guide the excavation based on qualitative/quantitative data and are reported to have detection threshold limits for TPHgas/BTEX of 3 ppm/1 ppm, respectively.

At the completion of each day of excavation, 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 samples were 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) by EPA Method 8020

Figure 6 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 D.

Table 2 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.

TABLE 2

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

<u>Sample</u>	<u>TPH</u> <u>gas</u>	<u>TPH</u> <u>diesel</u>	<u>Benzene</u>	<u>Result/ Action</u>
<u>Sidewall Samples</u>				
✓ EX-S1	N.D.	N.D.	N.D.	Below Ext. Bldg. Threshold
✓ EX-S2	N.D.	N.D.	0.070	Below Ext. Bldg. Threshold
✓ EX-S3	8.3	2.1	N.D.	Below Ext. Bldg. Threshold
✓ EX-S4	6.5	6.4	0.013	Below Int. Bldg. Threshold
EX-S5	32	3.1	0.27	Below Int. Bldg. Threshold
EX-S6	2700	420	3.6	Exceeded Int. Bldg. Threshold - Area Excavated and Retested
EX-S7	7400	1100	43	Exceeded Ext. Bldg. Threshold - Area Excavated and Retested
EX-S8	140	20	3.1	Exceeded Ext. Bldg. Threshold - Area Excavated and Retested
✓ EX-S8A	26	2.3	0.19	Below Ext. Bldg. Threshold
EX-S9	910	360	<2.0	Exceeded Ext. Bldg. Threshold - Area Excavated and Retested
EX-S9A	7600	3800	52	Exceeded Ext. Bldg. Threshold - Area Excavated and Retested
✓ EX-S9B	5.7	N.D.	0.061	Below Ext. Bldg. Threshold
✓ EX-S10	3.8	N.D.	N.D.	Below Ext. Bldg. Threshold
EX-S11	2600	810	<1.0	Exceeded Int. Bldg. Threshold - Area Excavated and Retested
✓ EX-S12	17	3.5	0.059	Below Ext. Bldg. Threshold
✓ EX-S13	3.5	1.4	N.D.	Below Int. Bldg. Threshold
✓ EX-S14	N.D.	N.D.	N.D.	Below Int. Bldg. Threshold
EX-S15	9.9	3.4	0.42	Exceeded Int. Bldg. Threshold - Area Excavated and Retested
✓ EX-S15A	29	1.9	0.036	Below Int. Bldg. Threshold

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

TABLE 2 (cont'd)

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

<u>Sample</u>	<u>TPH</u> <u>gas</u>	<u>TPH</u> <u>diesel</u>	<u>Benzene</u>	<u>Result/ Action</u>
<u>Bottom Samples</u>				
EX-B1	2.7	N.D.	0.058	Below Ext. Bldg. Threshold
EX-B2	16	11	0.029	Below Ext. Bldg. Threshold
EX-B3	8.3	N.D.	N.D.	Below Int. Bldg. Threshold
EX-B4	6.7	6.4	0.56	Exceeded Int. Bldg. Threshold - Area Excavated and Retested
EX-B4A	N.D.	N.D.	N.D.	Below Int. Bldg. Threshold
EX-B5	48	5.7	4.5	Exceeded Ext. Bldg. Threshold - Area Excavated and Retested
EX-B5A	1.4	N.D.	0.036	Below Ext. Bldg. Threshold
EX-B6	13	15	0.41	Below Ext. Bldg. Threshold
EX-B7	10	1.6	1.7	At Ext. Bldg. Threshold - No Action Taken
EX-B8	34	N.D.	0.17	Below Ext. Bldg. Threshold
EX-B9	2.2	N.D.	0.005	Below Int. Bldg. Threshold

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

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

Additional soil screening was performed for the remainder of the over-excavation activities for the Fleet Maintenance Building in accordance with the MMP. The soils were observed by Geo Plexus and WPC personnel on a daily basis and screened with an OVM and the field test kits. Based on these observations and measurements, additional soil contamination was not encountered.

3.3 EXCAVATION WATER CHARACTERIZATION

Water seepage (perched water) was observed 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, electric lines, etc.) encountered within the excavation. The water observed in these shallow areas is not classified as ground water for characterization purposes.

Water seeping into the excavation was sampled and analyzed for the presence of petroleum compounds (see data in Appendix D). Water in the excavation which was determined to contain petroleum compounds was pumped from the excavation to an activated carbon filter system consisting of two Cameron-Yakima WSU-55 canisters and was discharged to a holding tank for testing prior to discharge to the storm sewer. Water samples were obtained from the holding tank and submitted to McCampbell Analytical for testing. The chain-of-custody documents and analytical test data are included in Appendix E. Upon verification of the absence of petroleum compounds, Geo Plexus personnel communicated with Regional Water Quality Control Board personnel to obtain verbal, temporary, storm sewer discharge authorizations.

Water which was determined not to contain petroleum compounds was pumped from the excavation and discharged to the storm drain under Regional Water Quality Control Board guidelines for construction dewatering for sites under 5-acres. It is understood that WPC issued a letter of intent to discharge to the Regional Water Quality Control Board as required by the permit conditions.

4.0 EXCAVATED SOIL TRANSPORT AND DISPOSAL

The soil material generated during the excavation activities was excavated and loaded directly onto trucks for transport for thermal treatment and recycling at Remedial Environmental Marketing Company, Inc. (REMCO) located in Richmond, California. All transportation was performed under manifest conditions.

A summary of the manifest documentation is included as Appendix C and the Certification of Destruction document from REMCO is included as Appendix F.

5.0 CONCLUSIONS

Based on the results of the analytical testing, the objectives of the soil removal from within the footprint and outside of the footprint of the Fleet Maintenance Building were accomplished to concentrations below the threshold limit criteria.

The analytical testing of the test pit and surface soil samples from the welding shop area, suggests that the observed high concentration of lead at the 3-foot sample from Boring 6-1 was an isolated occurrence and is not representative of the area. Furthermore, the test data indicate that the lead concentrations are below the TTLC for lead and there is not a significant exposure risk from these soils. Additional investigation, analysis, or remediation is not warranted.

It is our opinion that the project site does not represent an environmental risk to the local or regional ground water conditions and 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, and excavation observations. 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

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., 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.

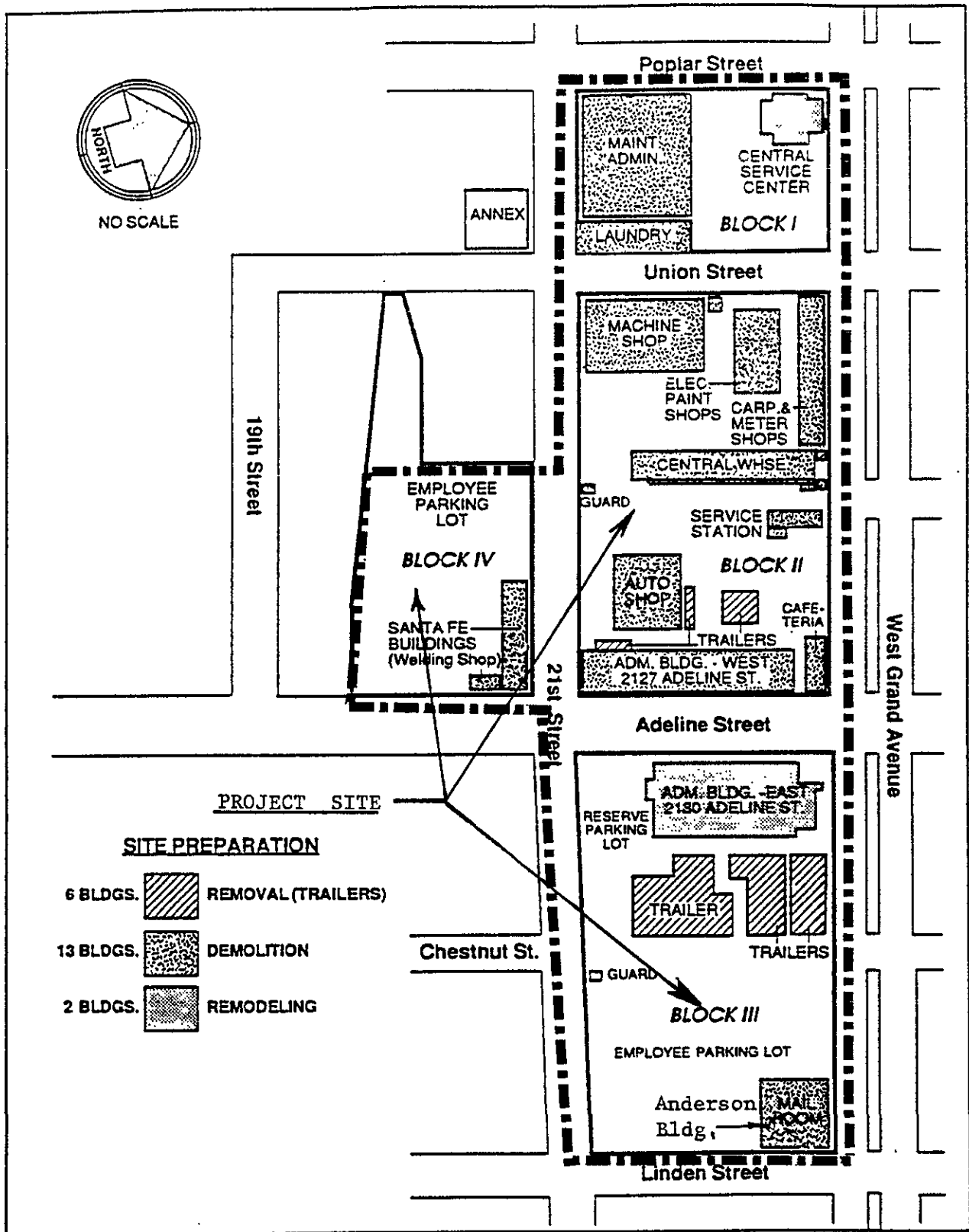
Geo Plexus, Inc., February 2, 1996, "Response to Alameda County Review Comments on the Material Management Plan for Adeline Maintenance Facility", prepared for Walsh Pacific Construction and East Bay Municipal Utility District.

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., March 5, 1996, "Request to Regional Water Quality Control Board for Additional Discharge of Ground Water to Storm Drain, EBMUD Adeline Maintenance Center", prepared for Walsh Pacific Construction and East Bay Municipal Utility District.



NO SCALE

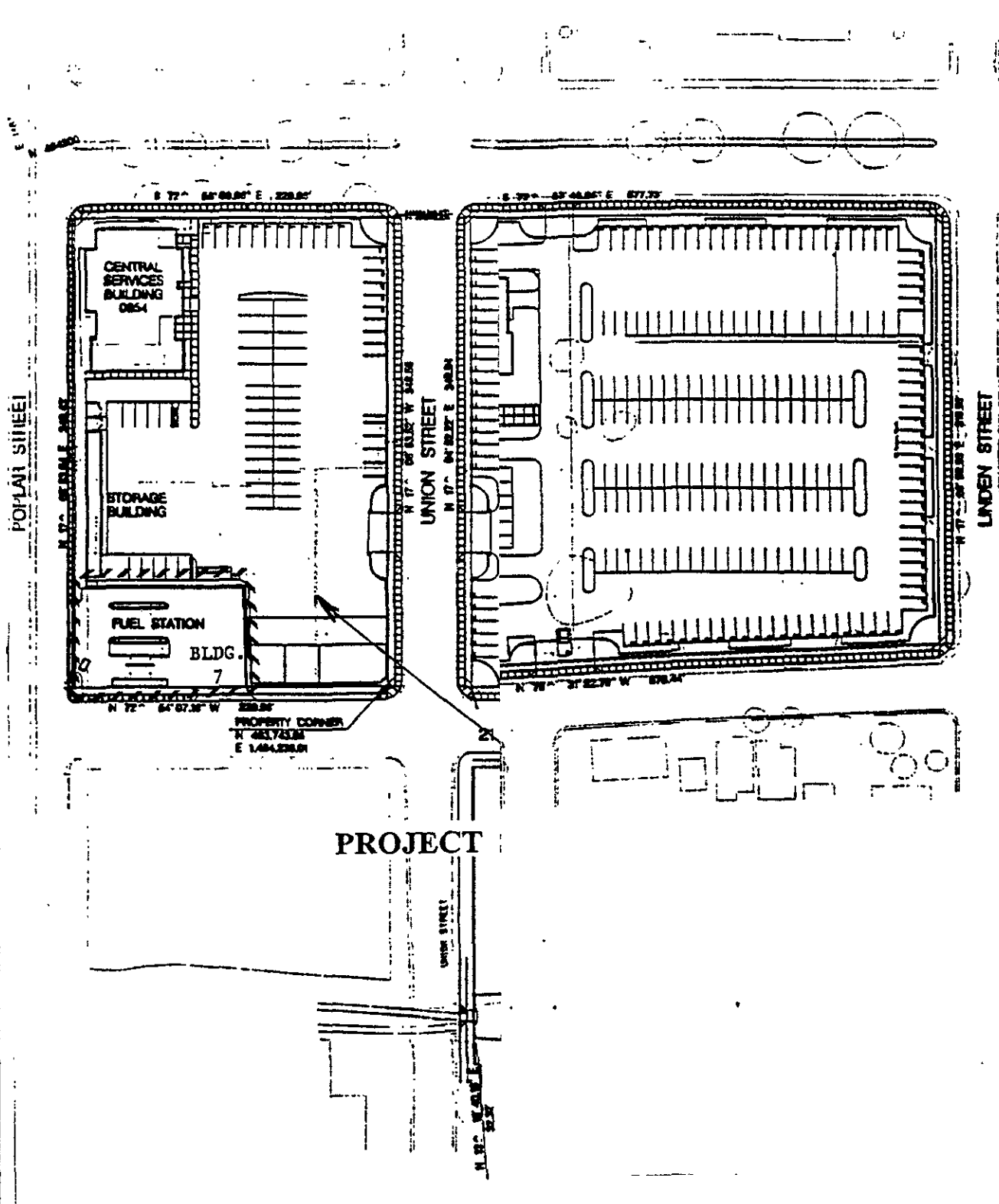


PROJECT SITE

SITE PREPARATION

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

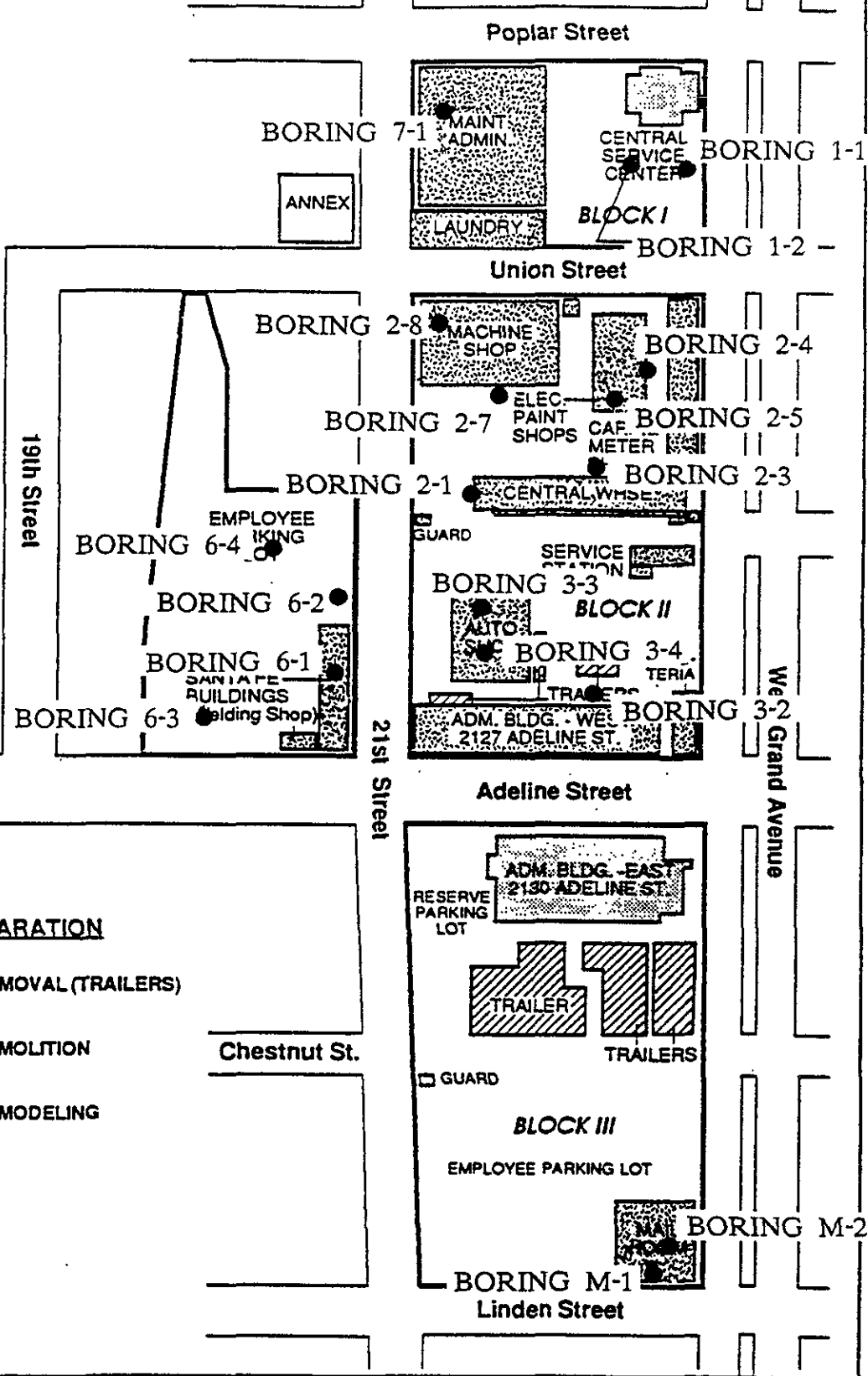
EBMUD FACILITY		
DATE	SCALE	DRAWN BY
2/12/95	n/a	dcg
SITE PLAN		
		Figure 1



AMC PHASE 1 SITE PLAN
FIGURE 2



NO SCALE



SITE PREPARATION

6 BLDGS.  REMOVAL (TRAILERS)

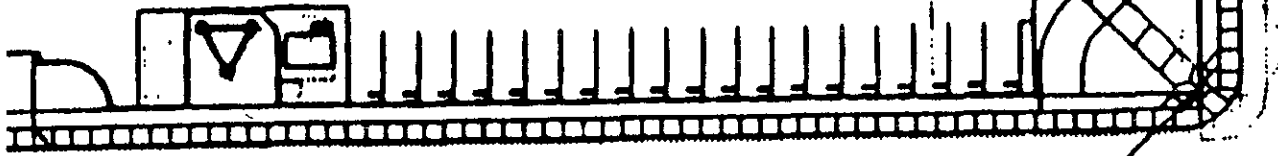
13 BLDGS.  DEMOLITION

2 BLDGS.  REMODELING

Chestnut St.

EBMUD FACILITY		
DATE 2/12/95	SCALE n/a	DRAWN BY dgc
BORING LOCATION PLAN		
		Figure 3

MICROWAVE
TOWER



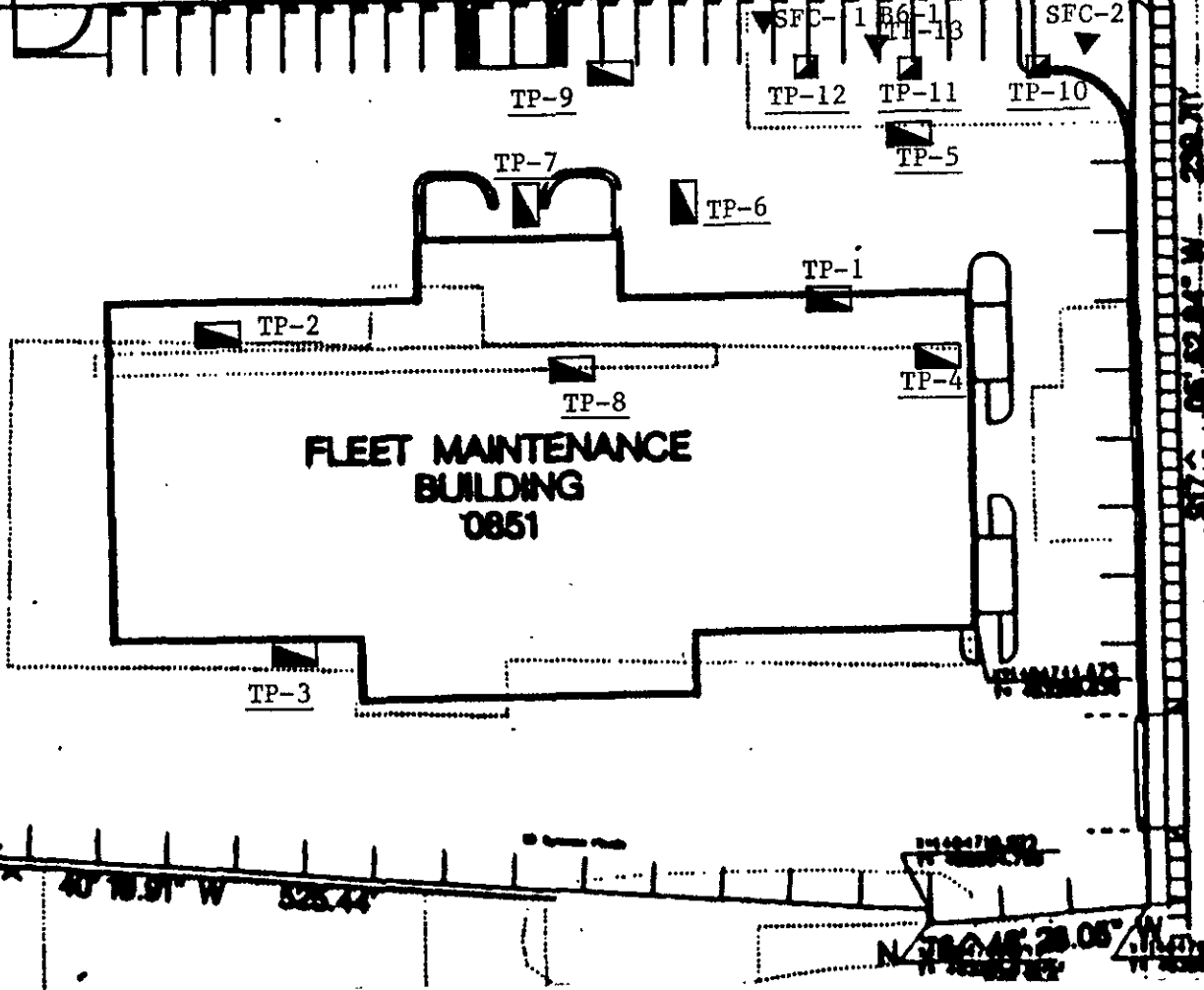
PROPERTY CORNER

N 483,554.23

E 1,484,852.40

S 72° 53' 08.73" W

340.92



FLEET MAINTENANCE
BUILDING
0851

NOTE: TEST PITS TP-1 - TP-3 ADVANCED DEC, 1995
 TEST PITS TP-4 - TP-12 ADVANCED JAN, 1996
 TEST PIT TP-13 and SURFACE SAMPLES SFC-1 & 2
 OBTAINED ON MAY, 1, 1996

PHASE 1 TEST PIT LOCATION PLAN		
DATE 2/2/96	SCALE 1"=50'	DRAWN BY dca
EBMUD ADELINE MAINTENANCE CENTER		
		Figure 4

MICROWAVE
TOWER

PROPERTY CORNER

N 483,554.23
E 1,484,852.40

S 72° 53' 08.73" W 348.92

NOTE: Depth of
excavation
approx. 7-feet

FLEET MAINTENANCE
BUILDING
0851

APPROXIMATE LIMITS
OF REMEDIAL SOIL
EXCAVATION

S 72° 05' 52.91" W 239.71

N 88° 40' 18.91" W 526.44

N 78° 45' 28.05" W 38.33

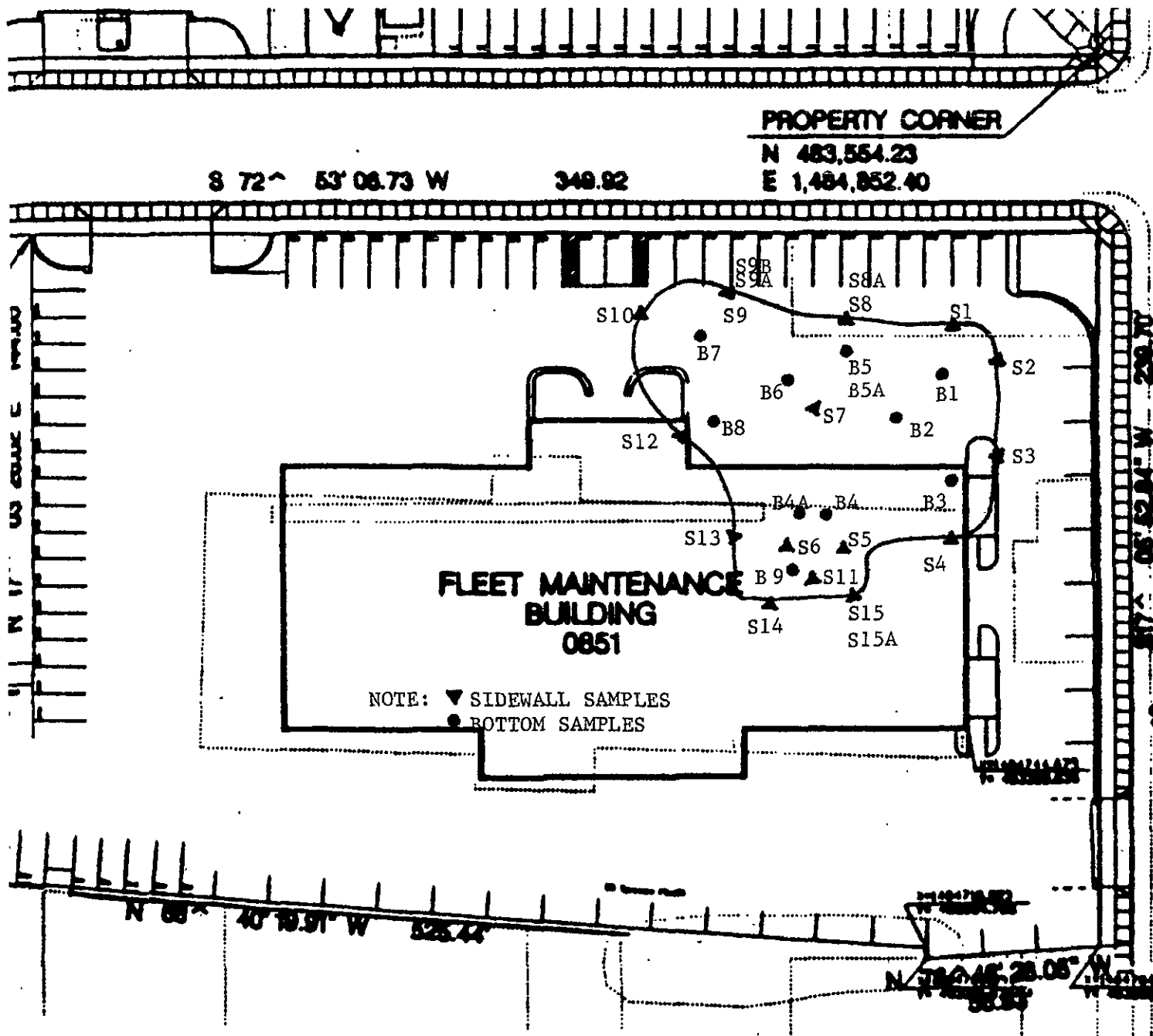


AMC PHASE 1 EXCAVATION PLAN

DATE	SCALE	DRAWN BY
3/26/96	1"=50'	dcg

WALSH PACIFIC CONSTRUCTION

Figure 5



AMC PHASE 1 EXCAVATION SAMPLES		
DATE 3/20/96	SCALE 1"=50'	DRAWN BY dgc
WALSH PACIFIC CONSTRUCTION SITE		
		Figure 6

APPENDIX A

TEST PIT ANALYTICAL TEST DATA

5722 AGPX 228

PROJECT NUMBER C95041		PROJECT NAME WALSA Pacific Constr EBMUD						Type of Analysis								Condition of Samples	Initial
Send Report Attention of: DAVID GICK		Report Due / /		Verbal Due / /		Number of Cntrs	Type of Containers	TPH _g /BTX	TPH _d	TTC LEAD	RCI	TPH _g /BTX	TPH _d	TTC LEAD	LUFT 5 METALS		
Sample Number	Date	Time	Comp	Grab	Station Location												
TP4-S1	4/29/96	1525		/	TEST PIT 4 4.5-5'	1EA	U/BABS TUAC	✓	✓								60931
TP4-S2		1530		/	TEST PIT 4 6.5-7'			✓	✓			✓	✓	✓			60932
TP4-S3		1653		/	TEST PIT 4 3-7'							✓	✓	✓			60933
TP4-S4		1655		/	TEST PIT 4 3-7'												60934
TP5-S1		1535		/	TEST PIT 5 4-4.5			✓	✓	✓							60935
TP5-S2		1540		/	TEST PIT 5 6-6.5			✓	✓			✓	✓	✓			60936
TP5-S3		1705		/	TEST PIT 5 3-7'							✓	✓	✓			60937
TP5-S4		1700		/	TEST PIT 5 3-7'												60938
TP6-S1		1618		/	TEST PIT 6 3-3.5'			✓									60939
TP6-S2		1620		/	TEST PIT 6 5.5-6'			✓	✓			✓	✓	✓			60940
TP6-S3		1625		/	TEST PIT 6 4-7'							✓	✓	✓			60941
TP6-S4		1628		/	TEST PIT 6 4-7'												60942

Relinquished by: (Signature) <i>[Signature]</i>	Date/Time 11/29/96	Received by: (Signature) <i>Kevin Mahoney</i>	Date/Time 11/29/96
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

Remarks: **RUSH ASAP**

OTHER: **103.3**

ICEP[®] GOOD CONDITION HEAD SPACE ABSENT

PRESERVATIVE APPROPRIATE CONTAINERS

5722 AGPX228

PROJECT NUMBER		PROJECT NAME				Number of Containers	Type of Containers	Type of Analysis								Condition of Samples	Initial
095041		WASH PACIFIC CONSTE ERMUD						TPH9/6TEX	TPHd	TTLc LEAD	TPH9/6TEX	TPHd	TTLc LEAD	W-F 5. MEANS	STLc LEAD		
Send Report Attention of:		Report Due		Verbal Due		Cntrns											
DAVID GLICK		/ /		/ /													
Sample Number	Date	Time	Comp	Grab	Station Location												
TP7-S1	4/29/96	1555		/	TEST PIT 7 5.5-6'	12A	U-BRAND TUBE	✓	✓						60943		
TP7-S2		1720		/	TEST PIT 7 3-7'									60944			
TP7-S3		1723		/	TEST PIT 7 3-7'									60945			
TP7-S4		1725		/	TEST PIT 7 3-7'									60946			
TP8-S1		1603		/	TEST PIT 8 4-4.5'			✓	✓					60947			
TP8-S2		1605		/	TEST PIT 8 6.5-7'			✓	✓		✓	✓		60948			
TP8-S3		1729		/	TEST PIT 8 4-7'									60949			
TP8-S4		1730		/	TEST PIT 8 3-5'									60950			
TP9-S1		1708		/	TEST PIT 9 3-3.5'			✓	✓	✓				60951			
TP9-S2		1710		/	TEST PIT 9 5.5-6'			✓	✓		✓	✓		60952			
TP9-S3		1712		/	TEST PIT 9 3-5'									60953			
TP9-S4		1715		/	TEST PIT 9 4-7'									60954			

Relinquished by (Signature)	Date/Time	Received by: (Signature)	Date/Time
<i>[Signature]</i>	4/29/96 1902	<i>[Signature]</i>	4/29/96 1900
Relinquished by (Signature)	Date/Time	Received by: (Signature)	Date/Time
Relinquished by (Signature)	Date/Time	Received by: (Signature)	Date/Time

Remarks: WASH ASAP

ICEP
GOOD CONDITION
NO ARSENIC

PRESERVATIVE APPROPRIATE CONTAINERS

83

5722 AGPX 228

PROJECT NUMBER		PROJECT NAME				Number of Containers	Type of Containers	Type of Analysis					Condition of Samples	Initial					
CA5041		WATSON Pacific Coast EBMWD						TPHg/BTK	TPHd	STLC lead	Luft 5 METALS	TTLc lead							
Send Report Attention of:		Report Due		Verbal Due		Sample Number	Date	Time	Comp	Grab	Station Location								
DAVID GICK		/ /		/ /															
TP1-C1	1/29/96	1735		1	TEST PIT 2-4'	1EA													
TP1-C2		1736		1	TEST PIT 4-6'														
TP1-C3		1737		1	TEST PIT 3-5'														
TP1-C4		1739		1	TEST PIT 5-7'														
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> 60955 60956 60957 60958 </div>																			
Relinquished by: (Signature)		Date/Time		Received by: (Signature)		Date/Time		Remarks:											
<i>[Signature]</i>		1/29/96 1900		Erin Mahoney		1/29/96 1900		DUST ASAP											
Relinquished by: (Signature)		Date/Time		Received by: (Signature)		Date/Time		PRESERVATIVE APPROPRIATE CONTAINERS ICE/ GOOD CONDITION HEAD SPACE ABSENT											
								VRAS O&G METALS OTHER 373											

Geo Plexus, Inc. 1900 Wyatt Drive, # 1 Santa Clara, Ca. 95054	Client Project ID: # C95041; Walsh Pacific Const. EBMUD	Date Sampled: 01/29/96
		Date Received: 01/29/96
	Client Contact: David Glick	Date Extracted: 01/29/96
	Client P.O.:	Date Analyzed: 01/29/96

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with 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) ⁺	Benzene	Toluene	Ethylbenzene	Xylenes	% Rec. Surrogate
60931	TP4-S1	S	ND	ND	ND	ND	ND	103
60932	TP4-S2	S	ND	ND	ND	ND	ND	103
60931-34	TP4-Comp	S	1.0,a	0.016	ND	0.088	0.030	105
60935	TP5-S1	S	ND	ND	ND	ND	ND	105
60936	TP5-S2	S	ND	ND	ND	ND	ND	108
60935-38	TP5-Comp	S	ND	ND	ND	ND	ND	107
60940	TP6-S2	S	210,a	3.4	6.7	3.5	18	100
60939-42	TP6-Comp	S	960,b	11	2.7	7.7	46	114
60943	TP7-S1	S	2.2,a	0.005	0.012	0.025	0.12	109
60943-46	TP7-Comp	S	ND	ND	ND	ND	ND	108
60947	TP8-S1	S	ND	ND	0.005	ND	0.011	108
60948	TP8-S2	S	ND	ND	ND	ND	ND	110
60947-50	TP8-Comp	S	ND	ND	ND	ND	ND	109
60951	TP9-S1	S	8.7,a	0.31	0.018	0.10	0.035	108
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit	W	50 ug/L	0.5	0.5	0.5	0.5		
	S	1.0 mg/kg	0.005	0.005	0.005	0.005		

* water and vapor samples are reported in ug/L, soil 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, # 1 Santa Clara, Ca. 95054	Client Project ID: # C95041; Walsh Pacific Const. EBMUD	Date Sampled: 01/29/96
	Client Contact: David Glick	Date Received: 01/29/96
	Client P.O:	Date Extracted: 01/29/96
		Date Analyzed: 01/29/96

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with 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) ⁺	Benzene	Toluene	Ethylbenzene	Xylenes	% Rec. Surrogate
60952	TP9-S2	S	120,a	1.8	0.41	2.7	14	107
60951-54	TP9-Comp	S	15,a	0.18	0.049	0.32	1.7	115 [#]
60955-58	TP1-Comp	S	770,b	ND< 0.3	11	9.9	78	100
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit	W	50 ug/L	0.5	0.5	0.5	0.5	0.5	
	S	1.0 mg/kg	0.005	0.005	0.005	0.005	0.005	

* water and vapor samples are reported in ug/L, soil 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, # 1 Santa Clara, Ca. 95054	Client Project ID: # C95041; Walsh Pacific Const. EBMUD	Date Sampled: 01/29/96
		Date Received: 01/29/96
	Client Contact: David Glick	Date Extracted: 01/29/96
	Client P.O:	Date Analyzed: 01/29/96

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
60931	TP4-S1	S	1.2,b	106
60932	TP4-S2	S	1.6,b	106
60931-34	TP4-Comp	S	1.7,b,d	106
60935	TP5-S1	S	ND	102
60936	TP5-S2	S	ND	105
60935-38	TP5-Comp	S	ND	104
60940	TP6-S2	S	63,d	104
60939-42	TP6-Comp	S	330,b,d	109
60943	TP7-S1	S	1.5,b,d	106
60943-46	TP7-Comp	S	ND	106
60947	TP8-S1	S	ND	106
60948	TP8-S2	S	ND	106
60947-50	TP8-Comp	S	ND	104
60951	TP9-S1	S	2.4,d	104
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 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.

Geo Plexus, Inc. 1900 Wyatt Drive, # 1 Santa Clara, Ca. 95054	Client Project ID: # C95041; Walsh Pacific Const. EBMUD	Date Sampled: 01/29/96
	Client Contact: David Glick	Date Received: 01/29/96
	Client P.O:	Date Extracted: 01/29/96
		Date Analyzed: 01/29/96

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
60952	TP9-S2	S	14,d	104
60951-54	TP9-Comp	S	ND	105
60955-58	TP1-Comp	S	62,d	106
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 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.

QC REPORT FOR HYDROCARBON ANALYSES

Date: 01/29/96

Matrix: Soil

Analyte	Concentration (mg/kg) Sample (#57831)			Amount Spiked	% Recovery		RPD
	MS	MSD	MSD		MS	MSD	
TPH (gas)	0.000	2.074	2.065	2.03	102	102	0.4
Benzene	0.000	0.188	0.190	0.2	94	95	1.1
Toluene	0.000	0.190	0.194	0.2	95	97	2.1
Ethylbenzene	0.000	0.190	0.194	0.2	95	97	2.1
Xylenes	0.000	0.566	0.574	0.6	94	96	1.4
TPH (diesel)	0	262	247	300	87	82	6.0
TRPH (oil and grease)	0.0	19.9	18.4	20.8	96	88	7.8

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

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

QC REPORT FOR AA METALS

Date: 01/30/96

Matrix: Soil

Analyte	Concentration (mg/kg, mg/L)			Amount Spiked	% Recovery		
	Sample	MS	MSD		MS	MSD	RPD
Total Lead	0.0	5.3	5.3	5	106	106	0.4
Total Cadmium	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Chromium	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Nickel	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Zinc	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Cobalt	0.00	5.38	5.38	5.0	108	108	0.0
Organic Lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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

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

5729

AGPX 029

PROJECT NUMBER		PROJECT NAME				Type of Analysis		Condition of Samples		
C95041		WALSH PACIFIC CONSTR SBMVD								
Send Report Attention of:			Report Due	Verbal Due		Number of Containers	Type of Containers			
DAVID GILICH			1 1	1 1						
Sample Number	Date	Time	Comp	Grab	Station Location					
TP9 - m1	4/30/96	1035		1	TEST PIT 9 3-4'	1EA	1" STAINLESS STEEL TUBES	✓	✓	60976
TP10 - m1		1050		1	TEST PIT 10 3-4'			✓	✓	60977
TP11 - m1		1052		1	TEST PIT 11 3-4'			✓	✓	60978
TP12 - m1		1055		1	TEST PIT 12 3-4'			✓	✓	60979
IQE/T <input checked="" type="checkbox"/> PRESERVATIVE <input checked="" type="checkbox"/> GOOD CONDITION <input checked="" type="checkbox"/> APPROPRIATE CONTAINERS <input checked="" type="checkbox"/> HEAD SPACE ABSENT <input checked="" type="checkbox"/>										
Relinquished by: (Signature)		Date/Time	Received by: (Signature)		Date/Time	Remarks:				
<i>[Signature]</i>		4/30/96	<i>[Signature]</i>		1-30-96	TOUSH ASAP				
Relinquished by: (Signature)		Date/Time	Received by: (Signature)		Date/Time					
<i>[Signature]</i>		1-30-96	<i>[Signature]</i>		1-30-96 5:20					
Relinquished by: (Signature)		Date/Time	Received by: (Signature)		Date/Time					

Geo Plexus, Inc. 1900 Wyatt Drive, # 1 Santa Clara, Ca. 95054	Client Project ID: # C95041; Walsh Pacific Construction, EBMUD	Date Sampled: 01/30/96
	Client Contact: David Glick	Date Received: 01/30/96
	Client P.O:	Date Extracted: 01/30/96
		Date Analyzed: 01/31/96

Metals*

EPA analytical methods 6010/200.7, 239.2*

Lab ID	Client ID	Matrix	Extraction ^o	Cadmium	Chromium	Lead	Nickel	Zinc	Copper	% Rec. Surrogate
60976	TP9-M1	S	TTLIC	ND	22	73	33	80	25	99
60977	TP10-M1	S	TTLIC	ND	25	280	16	55	12	91
60978	TP11-M1	S	TTLIC	ND	22	10	14	18	6.8	91
60979	TP12-M1	S	TTLIC	ND	20	220	20	110	37	90
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit	S	TTLIC	0.5 mg/kg	0.5	3.0	2.0	1.0	2.0		
	W	TTLIC	0.01 mg/L	0.005	0.005	0.02	0.01	0.02		
	---	STLC,TCLP	0.01 mg/L	0.05	0.2	0.05	0.05	0.05		

* soil samples 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,TTLIC), 3040(organic matrices,TTLIC), 3050(solids,TTLIC); STLC from CA Title 22
 # surrogate diluted out of range; N/A means surrogate not applicable to this analysis
 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 AA METALS

Date: 01/31/96

Matrix: Soil

Analyte	Concentration (mg/kg, mg/L)			Amount Spiked	% Recovery		RPD
	Sample	MS	MSD		MS	MSD	
Total Lead	0.0	5.4	5.3	5	108	106	2.0
Total Cadmium	0.0	5.4	5.2	5	108	104	3.6
Total Chromium	0.0	5.4	5.2	5	107	104	3.2
Total Nickel	0.0	5.4	5.2	5	107	104	2.9
Total Zinc	0.0	5.4	5.2	5	109	105	3.7
Total Copper	0.00	5.09	4.95	5.0	102	99	2.6
Organic Lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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

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

CHROMALAB, INC.

Environmental Services (SDB)

February 2, 1996

Submission #: 9602004

MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: GP-W.P.C.

Project#: 5729

Received: February 1, 1996

re: One sample for Polynuclear Aromatic Hydrocarbons (PAHs) analysis.
Method: EPA 3550/8270

SampleID: TP9-M1

Sample #: 117325

Matrix: SOIL

Extracted: February 1, 1996

Sampled: January 30, 1996

Run: 10270-M

Analyzed: February 1, 1996

Analyte	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE RESULT (%)
NAPHTHALENE	N.D.	1.0	N.D.	--
2- METHYLNAPHTHALENE	N.D.	1.0	N.D.	--
2- CHLORONAPHTHALENE	N.D.	1.0	N.D.	--
ACENAPHTHYLENE	N.D.	1.0	N.D.	--
ACENAPHTHENE	N.D.	1.0	N.D.	79
FLUORENE	N.D.	1.0	N.D.	--
PHENANTHRENE	N.D.	1.0	N.D.	--
ANTHRACENE	N.D.	1.0	N.D.	--
FLUORANTHRENE	N.D.	1.0	N.D.	--
PYRENE	N.D.	1.0	N.D.	82
BENZO (A) ANTHRACENE	N.D.	1.0	N.D.	--
CHRYSENE	N.D.	1.0	N.D.	--
BENZO (B) FLUORANTHENE	N.D.	2.0	N.D.	--
BENZO (K) FLUORANTHENE	N.D.	2.0	N.D.	--
BENZO (A) PYRENE	N.D.	0.50	N.D.	--
IDENO (1, 2, 3-CD) PYRENE	N.D.	2.0	N.D.	--
DIBENZO (A, H) ANTHRACENE	N.D.	2.0	N.D.	--
BENZO (GHI) PERYLENE	N.D.	2.0	N.D.	--

Michael R. Verona
Michael Verona
Chemist

Alex Tam
Alex Tam
Semivolatiles Supervisor

CHROMALAB, INC.

Environmental Services (SDB)

February 2, 1996

Submission #: 9602004

MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: GP-W.P.C.
Received: February 1, 1996

Project#: 5729

re: One sample for Polynuclear Aromatic Hydrocarbons (PAHs) analysis.
Method: EPA 3550/8270

SampleID: TP10-M1

Sample #: 117326

Matrix: SOIL

Extracted: February 1, 1996

Sampled: January 30, 1996

Run: 10270-M

Analyzed: February 1, 1996

Analyte	RESULT	REPORTING	BLANK	BLANK SPIKE
	(mg/Kg)	LIMIT	RESULT	RESULT
	(mg/Kg)	(mg/Kg)	(mg/Kg)	(%)
NAPHTHALENE	N.D.	0.5	N.D.	--
2- METHYLNAPHTHALENE	N.D.	0.5	N.D.	--
2- CHLORONAPHTHALENE	N.D.	0.5	N.D.	--
ACENAPHTHYLENE	N.D.	0.5	N.D.	--
ACENAPHTHENE	N.D.	0.5	N.D.	79
FLUORENE	N.D.	0.5	N.D.	--
PHENANTHRENE	N.D.	0.5	N.D.	--
ANTHRACENE	N.D.	0.5	N.D.	--
FLUORANTHRENE	N.D.	0.5	N.D.	--
PYRENE	N.D.	0.5	N.D.	82
BENZO (A) ANTHRACENE	N.D.	0.5	N.D.	--
CHRYSENE	N.D.	0.5	N.D.	--
BENZO (B) FLUORANTHENE	N.D.	1.0	N.D.	--
BENZO (K) FLUORANTHENE	N.D.	1.0	N.D.	--
BENZO (A) PYRENE	N.D.	0.25	N.D.	--
IDENO (1, 2, 3-CD) PYRENE	N.D.	1.0	N.D.	--
DIBENZO (A, H) ANTHRACENE	N.D.	1.0	N.D.	--
BENZO (GHI) PERYLENE	N.D.	1.0	N.D.	--

Michael R. Verona
Michael Verona
Chemist

Alex Tam
Alex Tam
Semivolatiles Supervisor

CHROMALAB, INC.

Environmental Services (SDB)

February 2, 1996

Submission #: 9602004

MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: GP-W.P.C.

Project#: 5729

Received: February 1, 1996

re: One sample for Polynuclear Aromatic Hydrocarbons (PAHs) analysis.
Method: EPA 3550/8270

SampleID: TP11-M1

Sample #: 117327

Matrix: SOIL

Extracted: February 1, 1996


Sampled: January 30, 1996

Run: 10270-M

Analyzed: February 1, 1996

Analyte	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE RESULT (%)
NAPHTHALENE	N.D.	0.1	N.D.	--
2- METHYLNAPHTHALENE	N.D.	0.1	N.D.	--
2- CHLORONAPHTHALENE	N.D.	0.1	N.D.	--
ACENAPHTHYLENE	N.D.	0.1	N.D.	--
ACENAPHTHENE	N.D.	0.1	N.D.	79
FLUORENE	N.D.	0.1	N.D.	--
PHENANTHRENE	N.D.	0.1	N.D.	--
ANTHRACENE	N.D.	0.1	N.D.	--
FLUORANTHRENE	N.D.	0.1	N.D.	--
PYRENE	N.D.	0.1	N.D.	82
BENZO (A) ANTHRACENE	N.D.	0.1	N.D.	--
CHRYSENE	N.D.	0.1	N.D.	--
BENZO (B) FLUORANTHENE	N.D.	0.2	N.D.	--
BENZO (K) FLUORANTHENE	N.D.	0.2	N.D.	--
BENZO (A) PYRENE	N.D.	0.05	N.D.	--
IDENO (1, 2, 3-CD) PYRENE	N.D.	0.2	N.D.	--
DIBENZO (A, H) ANTHRACENE	N.D.	0.2	N.D.	--
BENZO (GHI) PERYLENE	N.D.	0.2	N.D.	--

Michael R. Verona
Michael Verona
Chemist


Alex Tam
Semivolatiles Supervisor

CHROMALAB, INC.

Environmental Services (SDB)

February 2, 1996

Submission #: 9602004

MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: GP-W.P.C.
Received: February 1, 1996

Project#: 5729

re: One sample for Polynuclear Aromatic Hydrocarbons (PAHs) analysis.
Method: EPA 3550/8270

SampleID: TP12-M1

Sample #: 117328

Matrix: SOIL

Extracted: February 1, 1996

Sampled: January 30, 1996

Run: 10270-M

Analyzed: February 1, 1996

Analyte	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE RESULT (%)
NAPHTHALENE	N.D.	0.1	N.D.	--
2- METHYLNAPHTHALENE	N.D.	0.1	N.D.	--
2- CHLORONAPHTHALENE	N.D.	0.1	N.D.	--
ACENAPHTHYLENE	N.D.	0.1	N.D.	--
ACENAPHTHENE	N.D.	0.1	N.D.	79
FLUORENE	N.D.	0.1	N.D.	--
PHENANTHRENE	N.D.	0.1	N.D.	--
ANTHRACENE	N.D.	0.1	N.D.	--
FLUORANTHRENE	N.D.	0.1	N.D.	--
PYRENE	N.D.	0.1	N.D.	82
BENZO (A) ANTHRACENE	N.D.	0.1	N.D.	--
CHRYSENE	N.D.	0.1	N.D.	--
BENZO (B) FLUORANTHENE	N.D.	0.2	N.D.	--
BENZO (K) FLUORANTHENE	N.D.	0.2	N.D.	--
BENZO (A) PYRENE	N.D.	0.05	N.D.	--
IDENO (1, 2, 3-CD) PYRENE	N.D.	0.2	N.D.	--
DIBENZO (A, H) ANTHRACENE	N.D.	0.2	N.D.	--
BENZO (GHI) PERYLENE	N.D.	0.2	N.D.	--

Michael L. Verona
Michael Verona
Chemist

Alex Tam
Alex Tam
Semivolatiles Supervisor

6311
 AGPX255

PROJECT NUMBER		PROJECT NAME				Number of Cntrs	Type of Containers	Type of Analysis		Condition of Samples	Initial
C95041		WASH PACIFIC - EBMD ADSLINE MAINTENANCE CENTER						PH	TTLc LOAD		
Send Report Attention of:			Report Due		Verbal Due						
DAVID GLICK			/ /		/ /						
Sample Number	Date	Time	Corp	Grab	Station Location						
SFC-1	5/1/96	1040		1	SURFACE SAMPLE C WELD SHOP	1CA	6" STAINLESS 37% (TUX)	✓	✓	64734	
SFC-2	↓	1050		1	SURFACE SAMPLE C WELD SHOP	↓	↓	✓	✓	64735	
TP13-S1	↓	1045		1	TEST PIT 13 C WELD SHOP -5'	↓	↓	✓	✓	64736	
IGF/T ✓ GOOD CONDITION ✓ HEADSPACE ABSENT ✓ PRESERVATIVE APPROPRIATE ✓ CONTAINERS ✓											
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Remarks: STANDARD TURNAROUND							
<i>[Signature]</i>	5/3/96 1115	<i>[Signature]</i>	5/3/96 5115								
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time								
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time								
<i>[Signature]</i>	5-2-96 5:45	<i>[Signature]</i>	5/3/96 5:45 PM								

Geo Plexus, Inc. 1900 Wyatt Drive, # 1 Santa Clara, Ca. 95054	Client Project ID: # C95041; Walsh Pacific-EBMUD Adeline Maintenance Center	Date Sampled: 05/01/96
	Client Contact: David Glick	Date Received: 05/03/96
	Client P.O:	Date Extracted: 05/03/96
		Date Analyzed: 05/07/96

Lead*

EPA analytical methods 6010/200.7, 239.2*

Lab ID	Client ID	Matrix	Extraction ^o	Lead*	% Recovery Surrogate
64734	SFC-1	S	TTLC	970	93
64735	SFC-2	S	TTLC	440	103
64736	TP13-S1	S	TTLC	4.3	105
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit	S	TTLC	3.0 mg/kg		
	W	TTLC	0.005 mg/L		
	---	STLC,TCLP	0.2 mg/L		

* soil samples 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
 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.

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, # 1 Santa Clara, Ca. 95054			Client Project ID: # C95041; Walsh Pacific-EBMUD Adeline Maintenance Center		Date Sampled: 05/01/96
			Client Contact: David Glick		Date Received: 05/03/96
			Client P.O:		Date Extracted: 05/06/96
					Date Analyzed: 05/06/96
			pH		
Analytical methods			EPA 150.1, 9040, 9045		
Lab ID	Client ID	Matrix	pH		
64734	SFC-1	S	8.42		
64735	SFC-2	S	7.94		
64736	TP13-S1	S	7.59		
Reporting Limit or Method Accuracy unless otherwise stated; ND		W	± 0.05		
means not detected above the reporting limit; N/A means not applicable		S	± 0.1		
Reporting Units		W,S	-log(aH ⁺)		

DHS Certification No. 1644

EH Edward Hamilton, Lab Director

QC REPORT FOR AA METALS

Date: 05/07/96

Matrix: Soil

Analyte	Concentration (mg/kg, mg/L)			Amount Spiked	% Recovery		RPD
	Sample	MS	MSD		MS	MSD	
Total Lead	0.0	5.51	5.29	5.0	110	106	4.1
Total Cadmium	0.0	5.86	5.65	5.0	117	113	3.6
Total Chromium	0.0	5.50	5.32	5.0	110	106	3.3
Total Nickel	0.0	5.26	5.13	5.0	105	103	2.5
Total Zinc	0.0	5.57	5.37	5.0	111	107	3.7
Total Copper	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Organic Lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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

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

APPENDIX B

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 black ink 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

McC Campbell 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

1 Microbiology of Drinking Water and Wastewater (-----)			
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
2 Inorganic Chemistry and Physical Properties of Drinking Water excluding Toxic Chemical Elements (-----)			
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
3 Analysis of Toxic Chemical Elements in Drinking Water (-----)			
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
4 Organic Chemistry of Drinking Water (measurement by GC/MS combination) (-----)			
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
5 Organic Chemistry of Drinking Water (excluding measurements by GC/MS combination) (-----)			
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 in Haz. Wastes -----	N
6.6	Radioactive Cesium -----	N	6.16	Radium 228 in Hazardous Wastes -----	N
6.7	Iodine 131 -----	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 7040(-----) -----	N	10.7	Cobalt 7200(05-21-93) -----	Y
	7041(-----) -----	N		7201(-----) -----	N
10.2	Arsenic 7060(05-21-93) -----	Y	10.8	Copper 7210(05-21-93) -----	Y
	7061(07-26-94) -----	Y		7211(-----) -----	N
10.3	Barium 7080(-----) -----	N	10.9	Lead 7420(05-21-93) -----	Y
	7081(-----) -----	N		7421(05-21-93) -----	Y
10.4	Beryllium 7090(05-21-93) -----	Y	10.10	Mercury 7470(07-26-94) -----	Y
	7091(05-21-93) -----	Y		7471(07-26-94) -----	Y
10.5	Cadmium 7130(05-21-93) -----	Y	10.11	Molybdenum 7480(-----) -----	N
	7131(-----) -----	N		7481(-----) -----	N
10.6	Chromium, total 7190(-----) -----	N	10.12	Nickel 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	N
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 C

SUMMARY OF TRANSPORTATION MANIFEST DOCUMENTS

Walsh Pacific Construction - EBMUD Adeline Maintenance Center

February 6, 1996

MANIFEST	LOAD TIME	TRUCK	COMPANY	UNLADEN WEIGHT	LADEN WEIGHT	LOAD WEIGHT	TONS
1236	8:17	41	BC	30340	58280	27940	13.97
1237	8:26	34	BC	30980	63260	32280	16.14
1238	8:34	32	BC	31860	66320	34460	17.23
1239	8:39	40	BC	23540	45130	21590	10.80
1198	8:48	PL4	P	31880	67250	35370	17.69
1197	8:51	PL6	P	32030	67560	35530	17.77
1252	8:56	42	BC	32580	73250	40670	20.34
1253	10:04	41	BC	30340	63060	32720	16.36
1254	10:08	34	BC	30980	69900	38920	19.46
1251	10:15	32	BC	31860	68570	36710	18.36
1250	10:20	40	BC	23540	42510	18970	9.49
1199	10:24	PL4	P	31880	72440	40560	20.28
1200	10:27	PL6	P	32030	68430	36400	18.20
1249	10:45	42	BC	32580	71780	39200	19.60
1248	11:18	41	BC	30340	59120	28780	14.39
1247	11:22	34	BC	30980	66470	35490	17.75
1246	11:26	32	BC	31860	66750	34890	17.45
1245	11:31	40	BC	23540	41780	18240	9.12
1201	11:34	PL4	P	31880	65860	33980	16.99
1202	11:38	PL6	P	32030	63550	31520	15.76
1244	11:47	42	BC	32580	72110	39530	19.77
1243	12:17	41	BC	30340	66390	36050	18.03
1242	12:21	34	BC	30980	70380	39400	19.70
1241	12:31	32	BC	31860	68150	36290	18.15
1240	12:42	40	BC	23540	41620	18080	9.04
1203	12:35	PL4	P	31880	69170	37290	18.65
1204	12:39	PL6	P	32030	73360	41330	20.67
1157	12:58	42	BC	32580	68970	36390	18.20
1159	1:12	41	BC	30340	66290	35950	17.98
1160	1:20	34	BC	30980	68760	37780	18.89
1161	1:32	32	BC	31860	63750	31890	15.95
1205	1:42	PL4	P	31880	65330	33450	16.73
1206	1:46	PL6	P	32030	75240	43210	21.61
1162	1:49	40	BC	23540	45770	22230	11.12
1163	2:12	41	BC	30340	66050	35710	17.86
1164	2:19	34	BC	30980	77210	46230	23.12
1165	2:41	32	BC	31860	73310	41450	20.73
1207	2:46	PL4	P	31880	70400	38520	19.26
1166	2:54	40	BC	23540	42550	19010	9.51
1208	2:49	PL6	P	32030	70470	38440	19.22

DAILY TOTAL						681.23	

Walsh Pacific Construction - EBMUD Adeline Maintenance Center
 February 7, 1996

MANIFEST	LOAD TIME	TRUCK	COMPANY	UNLADEN WEIGHT	LADEN WEIGHT	LOAD WEIGHT	TONS
1210	7:43	PL6	P	31960	74070	42110	21.06
1167	7:32	42	BC	33250	68420	35170	17.59
1211	7:46	1001	P	31460	73390	41930	20.97
1209	7:49	PL3	P	33540	71530	37990	19.00
1212	7:55	PL4	P	32280	70790	38510	19.26
1213	8:22	055	P	31140	66730	35590	17.80
1214	8:29	551	P	29950	66920	36970	18.49
1169	8:50	42	BC	33250	72240	38990	19.50
1215	8:56	PL6	P	31960	72190	40230	20.12
1216	9:00	1001	P	31460	64770	33310	16.66
1217	9:08	PL3	P	33540	70750	37210	18.61
1218	9:12	PL4	P	32280	66390	34110	17.06
1219	9:36	055	P	31140	72240	41100	20.55
1220	9:50	551	P	29950	66790	36840	18.42
1171	9:54	42	BC	33250	71030	37780	18.89
1221	9:58	PL6	P	31960	70010	38050	19.03
1222	10:03	1001	P	31460	71520	40060	20.03
1223	10:19	PL4	P	32280	71500	39220	19.61
1224	10:36	055	P	31140	77580	46440	23.22
1172	10:41	40	BC	22640	46140	23500	11.75
1225	10:43	PL3	P	33540	75900	42360	21.18
1226	10:57	551	P	29950	64280	34330	17.17
1227	11:03	PL6	P	31960	72370	40410	20.21
1228	11:06	1001	P	31460	66040	34580	17.29
1173	11:00	42	BC	33250	73410	40160	20.08
1230	11:36	PL4	P	32280	68270	35990	18.00
1231	11:38	055	P	31140	71640	40500	20.25
1174	11:41	40	BC	22640	43010	20370	10.19
1232	11:54	PL3	P	33540	76310	42770	21.39
1233	11:45	551	P	29950	66980	37030	18.52
1175	12:02	42	BC	33250	73600	40350	20.18
1234	12:05	PL6	P	31960	69730	37770	18.89
1235	12:07	1001	P	31460	69530	38070	19.04
1158	12:30	PL4	P	32280	67470	35190	17.60
1176	12:40	40	BC	22640	42920	20280	10.14
1300	12:42	055	P	31140	69700	38560	19.28
1177	12:58	42	BC	33250	69580	36330	18.17
1302	1:01	551	P	29950	56250	26300	13.15
1301	1:05	PL3	P	33540	70440	36900	18.45
1303	1:08	PL6	P	31960	75470	43510	21.76
1304	1:11	1001	P	31460	72360	40900	20.45
1305	1:32	PL4	P	32280	71490	39210	19.61
1178	2:05	40	BC	22640	44580	21940	10.97
1306	1:38	055	P	31140	71350	40210	20.11
1309	2:26	1001	P	31460	69690	38230	19.12
1310	2:40	PL6	P	31960	71340	39380	19.69
1311	2:45	055	P	31140	68320	37180	18.59
1179	2:06	42	BC	33250	72980	39730	19.87
1307	2:15	551	P	29950	70710	40760	20.38
1308	2:21	PL3	P	33540	74260	40720	20.36
1312	2:49	PL4	P	32280	68890	36610	18.31

DAILY TOTAL 945.87

Walsh Pacific Construction - EBMUD Adeline Maintenance Center
 February 8, 1996

MANIFEST	LOAD TIME	TRUCK	COMPANY	UNLADEN WEIGHT	LADEN WEIGHT	LOAD WEIGHT	TONS
1180	7:37	42	BC	34550	77770	43220	21.61
1181	7:41	32	BC	32540	73180	40640	20.32
1313	7:46	PL3	P	33230	78020	44790	22.40
1314	7:49	T6	P	31060	70130	39070	19.54
1315	7:58	PL6	P	32070	74670	42600	21.30
1316	8:03	552	P	34040	70140	36100	18.05
1317	8:08	57	P	32110	75320	43210	21.61
1318	8:12	5316	P	30770	68090	37320	18.66
1319	8:16	4	P	32050	77880	45830	22.92
1320	8:21	1001	P	30940	68560	37620	18.81
1321	8:25	PL8	P	32080	74860	42780	21.39
1182	9:04	32	BC	32540	71160	38620	19.31
1183	9:06	42	BC	34550	64260	29710	14.86
1322	9:11	PL3	P	33230	71370	38140	19.07
1323	9:13	T6	P	31060	66880	35820	17.91
1324	9:16	PL6	P	32070	72730	40660	20.33
1325	9:21	552	P	34040	74240	40200	20.10
1326	9:29	57	P	32110	68700	36590	18.30
1328	9:34	5316	P	30770	69790	39020	19.51
1329	9:37	1001	P	30940	69660	38720	19.36
1330	9:40	PL8	P	32080	73390	41310	20.66
1331	9:42	4	P	32050	72580	40530	20.27
1184	10:04	42	BC	34550	66320	31770	15.89
1185	10:10	32	BC	32540	67330	34790	17.40
1332	10:14	PL3	P	33230	72760	39530	19.77
1333	10:17	T6	P	31060	67260	36200	18.10
1334	10:22	PL6	P	32070	72150	40080	20.04
1335	10:24	552	P	34040	75070	41030	20.52
1336	10:30	57	P	32110	77040	44930	22.47
1337	10:35	5316	P	30770	70240	39470	19.74
1338	10:38	1001	P	30940	68980	38040	19.02
1339	10:41	PL8	P	32080	66190	34110	17.06
1340	10:46	4	P	32050	72930	40880	20.44
1341	11:08	PL3	P	33230	76100	42870	21.44
1186	11:11	42	BC	34550	63010	28460	14.23
1187	11:15	32	BC	32540	69740	37200	18.60
1343	11:18	T6	P	31060	66300	35240	17.62
1344	11:22	PL6	P	32070	68870	36800	18.40
1345	11:25	552	P	34040	70720	36680	18.34
1346	11:30	57	P	32110	68370	36260	18.13
1347	11:35	5316	P	30770	70150	39380	19.69
1348	11:38	1001	P	30940	66660	35720	17.86
1350	11:42	4	P	32050	73830	41780	20.89
1351	12:15	PL8	P	32080	74870	42790	21.40
1188	12:16	42	BC	34550	70870	36320	18.16
1352	12:21	PL3	P	33230	72580	39350	19.68
1189	12:27	32	BC	32540	63220	30680	15.34
1353	12:28	T6	P	31060	64740	33680	16.84
1354	12:30	PL6	P	32070	69400	37330	18.67
1355	12:34	552	P	34040	69380	35340	17.67
1356	12:38	57	P	32110	64460	32350	16.18
1357	12:42	5316	P	30770	68290	37520	18.76
1358	1:43	1001	P	30940	66230	35290	17.65
1359	12:47	4	P	32050	68900	36850	18.43
1373	1:29	PL3	P	33230	74840	41610	20.81

1360	1:15	PL8	P	32080	78250	46170	23.09
1190	1:37	42	BC	34550	69760	35210	17.61
1191	1:40	32	BC	32540	66450	33910	16.96
1375	1:43	T6	P	31060	75130	44070	22.04
1376	1:45	PL6	P	32070	68420	36350	18.18
1377	1:49	552	P	34040	71690	37650	18.83
1378	1:50	57	P	32110	72810	40700	20.35
1379	2:00	5316	P	30770	64560	33790	16.90
1380	2:02	1001	P	30940	71060	40120	20.06
1381	2:05	4	P	32050	69890	37840	18.92
1382	2:30	PL8	P	32080	70350	38270	19.14
1383	2:36	PL3	P	33230	71750	38520	19.26
1196	2:39	42	BC	34550	63220	28670	14.34
1195	2:47	32	BC	32540	66590	34050	17.03
1384	2:49	T6	P	31060	70790	39730	19.87
1385	2:54	PL6	P	32070	54690	22620	11.31
1386	2:56	552	P	34040	62200	28160	14.08
1374	3:00	57	P	32110	68230	36120	18.06
1387	3:00	5316	P	30770	64060	33290	16.65

DAILY TOTAL 1394.04

Walsh Pacific Construction - EBMUD Adeline Maintenance Center
February 9, 1996

MANIFEST	LOAD TIME	TRUCK	COMPANY	UNLADEN WEIGHT	LADEN WEIGHT	LOAD WEIGHT	TONS
1192	9:00	34	BC	30710	63060	32350	16.18
1193	9:04	32	BC	31370	63690	32320	16.16
1388	9:13	PL6	P	32570	60080	27510	13.76
1389	9:17	1	P	31260	61050	29790	14.90
1194	9:09	42	BC	32750	65760	33010	16.51
1390	9:21	4	P	33370	74720	41350	20.68
1391	9:25	PL3	P	35500	70960	35460	17.73
1260	10:14	34	BC	30710	68090	37380	18.69
1261	10:17	32	BC	31370	71640	40270	20.14
1262	10:23	42	BC	32750	55040	22290	11.15
1392	10:37	PL6	P	32570	65940	33370	16.69
1393	10:43	1	P	31260	65430	34170	17.09
1394	10:50	4	P	33370	73900	40530	20.27
1395	11:07	PL3	P	35500	83330	47830	23.92
DAILY TOTAL							243.82

APPENDIX D

SOIL EXCAVATION ANALYTICAL TEST DATA

AGPX236

PROJECT NUMBER		PROJECT NAME				Number of Cntrs	Type of Containers	Type of Analysis			Condition of Samples	Initial
Send Report Attention of:		Report Due	Verbal Due	TPH9/STEX	MTBE			TPHd				
Sample Number	Date	Time	Comp	Grab	Station Location							
095041	WASH PACIFIC CONSTRUCTION EBMUD TIDEWAVE SITE											
DAVID ALICE		1 1	1 1									
EX-B1	2/6/94	1135		/	SXC. BOTTOM @ -7.5' N.E CORNER	1CA	6" ANALYS TRASS	✓	✓	✓	61177	
EX-S1	↓	1148		/	N. SIDEWALK @ -6' N.E CORNER	↓	↓	-	-	-	61178	
EX-S2		1153		/	E. SIDEWALK @ -6' N. SIDE			-	-	-	61179	
EX-B2		1350		/	SXC. BOTTOM @ -7' SE CORNER			-	-	-	61180	
EX-S3		1353		/	E. SIDEWALK @ -5.5' S. SIDE			-	-	-	61181	
ICE/T GOOD CONDITION HEAD SPACE ABSENT						PRESERVATIVE APPROPRIATE CONTAINERS						
WAS LOG METALS OTHER												
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Remarks: RUSH ASAP								
	2/6/94 1718	David Alice	2-6-94 1718									
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time									
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time									

McCAMPBELL ANALYTICAL INC.

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

QC REPORT FOR HYDROCARBON ANALYSES

Date: 02/06/96

Matrix: Soil

Analyte	Concentration (mg/kg) Sample (#59913)			Amount Spiked	% Recovery		
	MS	MSD			MS	MSD	RPD
TPH (gas)	0.000	1.938	1.746	2.03	95	86	10.4
Benzene	0.000	0.192	0.158	0.2	96	79	19.4
Toluene	0.000	0.198	0.170	0.2	99	85	15.2
Ethylbenzene	0.000	0.198	0.166	0.2	99	83	17.6
Xylenes	0.000	0.580	0.580	0.6	97	97	0.0
TPH (diesel)	0	308	303	300	103	101	1.8
TRPH (oil and grease)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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

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

PROJECT NUMBER		PROJECT NAME				Number of Containers	Type of Containers	Type of Analysis			Condition of Samples	Initial	
C95041		WATER PACIFIC CONSTRUCTION EBMUD ADELINE SITE						TRH/BTK	PUS MBE	TPHd			
Send Report Attention of:		Report Due		Verbal Due		Cntrs	Type				Condition of Samples	Initial	
DAVID GLICK		/ /		/ /									
Sample Number	Date	Time	Comp	Grab	Station Location								
EX-B3	2/7/96	1630		1	EXC BOTTOM @ -6.5' SE CORNER	1 CT	6" GALV TUBE	✓	✓			61208	
EX-B4		1630		1	EXC. BOTTOM @ S. CENTRAL @ 6.5'			✓	✓			61209	
EX-S4		1510		1	E. END OF S. WALL @ 5.5'			✓	✓			61210	
EX-S5		1638		1	CENTRAL OF S. WALL @ 6.0'			✓	✓			61211	
EX-S6		1638		1	CENTRAL OF S. WALL @ 3.5'			✓	✓			61212	
EX-S7		1639		1	CENTRAL EXC @ 5'			✓	✓			61213	
<p>IDEA° <input checked="" type="checkbox"/> PRESERVATIVE</p> <p>GOOD CONDITION <input checked="" type="checkbox"/> APPROPRIATE</p> <p>HEAD SPACE ABSENT <input checked="" type="checkbox"/> CONTAINERS <input checked="" type="checkbox"/></p>													
Relinquished by: (Signature)		Date/Time		Received by: (Signature)		Date/Time		Remarks:					
<i>[Signature]</i>		2/7/96 18:35		<i>[Signature]</i>		2/7/96 18:35		DUST ABAND					
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: 02/07/96

Matrix: Soil

Analyte	Concentration (mg/kg)			Amount Spiked	% Recovery		
	Sample (#59994)	MS	MSD		MS	MSD	RPD
TPH (gas)	0.000	1.948	1.962	2.03	96	97	0.7
Benzene	0.000	0.180	0.176	0.2	90	88	2.2
Toluene	0.000	0.186	0.192	0.2	93	96	3.2
Ethylbenzene	0.000	0.184	0.184	0.2	92	92	0.0
Xylenes	0.000	0.542	0.550	0.6	90	92	1.5
TPH (diesel)	0	307	336	300	102	112	9.0
TRPH (oil and grease)	0.0	19.2	20.8	20.8	92	100	8.0

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

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

AGPX 233

PROJECT NUMBER		PROJECT NAME				Type of Analysis		Condition of Samples	Initial	
C95041		WALSH PACIFIC CONSTRUCTION SEBMUD ADSEINE MARIT. CONTR								
Send Report Attention of:			Report Due		Verbal Due		Number of Cntrs	Type of Containers		
DAVID GLICK			/ /		/ /					
Sample Number	Date	Time	Comp	Grab	Station Location					
EXB-5	2/8/96	823		/	EXC. BASE @ 7.5 N. CS. NATAL	1CA	UL BOTTLES TUBE	✓	✓	61285
EXB-6		1150		/	EXC. BASE @ 7.0' N.W. CORNER			✓	✓	61286
EXB-7		1321		/	EXC. BASE @ 10.0' N.W. CORNER PIT			✓	✓	61287
EX-80		1530		/	EXC. BASE @ 6.5 CENTRAL - WEST			✓	✓	61288
EX-89		1535		/	SW. CENTRAL BASE @ 5' - LEDGE			✓	✓	61289
EX-84A		1430		/	RE-SAMPLE BY @ 7'			✓	✓	61290
EX-58		858		/	N. SIDEWALK @ 5'			✓	✓	61291
EX-59		1045		/	N. SIDEWALK 5.5'			✓	✓	61292
EX-510		1540		/	N.W. CORNER SIDEWALK @ 5.5'			✓	✓	61293
EX-511		1542		/	S. SIDEWALK @ 4.5'			✓	✓	61294
						16E/7°	✓	✓	✓	
						GOOD CONDITION	✓	✓	✓	
						HEAD SPACE ABSENT	✓	✓	✓	
						PRESERVATIVE	✓	✓	✓	
						APPROPRIATE CONTAINERS	✓	✓	✓	
Relinquished by: (Signature)		Date/Time	Received by: (Signature)		Date/Time	Remarks: DUSTY ASAP				
[Signature]		2/8/96 17:30	[Signature]		2/8/96 17:30					
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: 02/08/96

Matrix: Soil

Analyte	Concentration (mg/kg)			Amount Spiked	% Recovery		RPD
	Sample (#59994)	MS	MSD		MS	MSD	
TPH (gas)	0.000	1.914	1.900	2.03	94	94	0.8
Benzene	0.000	0.180	0.174	0.2	90	87	3.4
Toluene	0.000	0.186	0.184	0.2	93	92	1.1
Ethylbenzene	0.000	0.186	0.184	0.2	93	92	1.1
Xylenes	0.000	0.542	0.538	0.6	90	90	0.7
TPH (diesel)	0	297	302	300	99	101	1.7
TRPH (oil and grease)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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

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

PROJECT NUMBER		PROJECT NAME				Number of Cntnrs	Type of Containers	Type of Analysis			Condition of Samples	Initial
095041		WALSH PACIFIC / SBMUD						TPH9 / BTX	DIV MTBE	TPHd		
Send Report Attention of:			Report Due		Verbal Due							
DAVID Glick			/ /		/ /							
Sample Number	Date	Time	Comp	Grab	Station Location							
EX-59A	2/9/96	1110		/	N. WALSH DESAMPLE 04.5-5'	1YA	0" SIMULOUS 57%	✓	✓			61354
EX-512		1040		/	W. WALSH N. END 04.5-5'			✓	✓			61355
EX-513		1041		/	W. WALSH CENTR 0.5'			✓	✓			61356
EX-514		1228		/	S. WALSH N. END 0.4'			✓	✓			61357
EX-515		1230		/	S. WALSH CENTR 0.4'			✓	✓			61358
ICE/T° <input checked="" type="checkbox"/> GOOD CONDITION <input checked="" type="checkbox"/> HEAD SPACE ABSENT <input checked="" type="checkbox"/> PRESERVATIVE APPROPRIATE <input checked="" type="checkbox"/> CONTAINERS <input checked="" type="checkbox"/>												
Relinquished by: (Signature)			Date/Time		Received by: (Signature)		Date/Time		Remarks:			
<i>[Signature]</i>			2/11/96		Erinn Mahoney		1545		PUSH DATA REQUIRED BY 1000 MONDAY 2/12/96			
Relinquished by: (Signature)			Date/Time		Received by: (Signature)		Date/Time					
Relinquished by: (Signature)			Date/Time		Received by: (Signature)		Date/Time					

McCAMPBELL ANALYTICAL INC.

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

QC REPORT FOR HYDROCARBON ANALYSES

Date: 02/10/96

Matrix: Soil

Analyte	Concentration (mg/kg) Sample (#59994)			Amount Spiked	% Recovery		
	MS	MSD			MS	MSD	RPD
TPH (gas)	0.000	1.995	2.142	2.03	98	106	7.1
Benzene	0.000	0.180	0.192	0.2	90	96	6.5
Toluene	0.000	0.190	0.198	0.2	95	99	4.1
Ethylbenzene	0.000	0.192	0.198	0.2	96	99	3.1
Xylenes	0.000	0.562	0.576	0.6	94	96	2.5
TPH (diesel)	0	302	300	300	101	100	0.5
TRPH (oil and grease)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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

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

AGPX238 5816

PROJECT NUMBER		PROJECT NAME				Number of Cntrs	Type of Containers	Type of Analysis										Condition of Samples	Initial	
Send Report Attention of:		Report Due		Verbal Due				TPH _g	TPH _d											
Sample Number	Date	Time	Comp	Grab	Station Location															
C95041		WASH PACIFIC CONSTRUCTION EBMUD ADJACENT SITE																		
DAVID BLICK		/ /		/ /																
EX-B5A	2/12/96	1400		1	EXC. BASE @ EX-B5	1EA	6" BRASS TUBE	/	/									61417		
EX-58A	↓	1405		1	EXC. SIDEWALL @ EX-58	↓	↓	/	/									61418		
EX-59B		1420		1	EXC. SIDEWALL @ EX-59, 59A			/	/										61419	
EX-515A		1419		1	EXC. SIDEWALL @ EX-515			/	/											61420
ICE/GOOD CONDITION/HEAD SPACE ABSENT		PRESERVATIVE APPROPRIATE		CONTAINERS		VOCs TOBACCO MEALS OTHER														
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Remarks: 24 HOUR DASH																
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time																	
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time																	

Geo Plexus, Inc. 1900 Wyatt Drive, # 1 Santa Clara, Ca. 95054	Client Project ID: # C95041; Walsh Pacific Construction, EBMUD Adeline Site	Date Sampled: 02/12/96
	Client Contact: David Glick	Date Received: 02/12/96
	Client P.O:	Date Extracted: 02/12/96
		Date Analyzed: 02/12/96

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with 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) ⁺	Benzene	Toluene	Ethylbenzene	Xylenes	% Rec. Surrogate
61417	EX-B5A	S	1.4,d	0.014	ND	ND	0.026	108
61418	EX-S8A	S	26,c,d	0.19	0.067	0.079	0.093	109
61419	EX-S9B	S	5.7,b	0.061	0.007	0.12	0.39	106
61420	EX-S15A	S	29,b,d	0.036	0.031	0.043	0.21	112 [#]
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit	W	50 ug/L	0.5	0.5	0.5	0.5	0.5	
	S	1.0 mg/kg	0.005	0.005	0.005	0.005	0.005	

* water and vapor samples are reported in ug/L, soil 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.

QC REPORT FOR HYDROCARBON ANALYSES

Date: 02/12/96-02/13/96

Matrix: Soil

Analyte	Concentration (mg/kg) Sample (#59994)			Amount Spiked	% Recovery		
	MS	MSD			MS	MSD	RPD
TPH (gas)	0.000	2.019	2.077	2.03	99	102	2.8
Benzene	0.000	0.188	0.202	0.2	94	101	7.2
Toluene	0.000	0.208	0.216	0.2	104	108	3.8
Ethylbenzene	0.000	0.198	0.218	0.2	99	109	9.6
Xylenes	0.000	0.602	0.664	0.6	100	111	9.8
TPH (diesel)	0	298	302	300	99	101	1.5
TRPH (oil and grease)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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

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

APPENDIX E

EXCAVATION WATER ANALYTICAL TEST DATA

5781 AGPX231

McCAMPBELL ANALYTICAL

110 2nd AVENUE, # D7

(510) 798-1820

PACHECO, CA 94553

FAX (510) 798-1822

CHAIN OF CUSTODY RECORD

TURN AROUND TIME:

RUSH 24 HOUR 48 HOUR 5 DAY

REPORT TO: **BILL TO:**
 COMPANY: **GEO PLEXUS INC**
1900 WYATT DR. STE 1
SANTA CLARA CA 95054
 TELE: **408 9870210** FAX #: **408 988 0815**
 PROJECT NUMBER: **C95041** PROJECT NAME: **WASH PACIFIC**
48 MUD
 PROJECT LOCATION: **ADLINE MAINTENANCE CENTER** SAMPLER SIGNATURE:

ANALYSIS REQUEST **OTHER**

SAMPLE ID	LOCATION	SAMPLING		# CONTAINERS	TYPE CONTAINERS	MATRIX					METHOD PRESERVED									
		DATE	TIME			WATER	SOIL	AIR	SLUDGE	OTHER	HCL	HNO ₃	OTHER							
BT 1A,B	BAKERS TANK	2/7/96	1520	2	Acid VOA	✓														
BT 2A	BAKERS TANK	2/7/96	1520	1	Acid VOA	✓														

BTEX & TPH as Gasoline (502/8020 & 8015)	TPH as Diesel (8015)	Total Petroleum Oil & Grease (5520 ERF/5520 BRF)	Total Petroleum Hydrocarbons (418.1)	EPA 501/8010	EPA 502/8020	EPA 508/8080	EPA 508/8080 - PCBs Only	EPA 624/8240/8260	EPA 625/8270	CAM - 17 Metals	EPA - Priority Pollutant Metals	LEAD (7240/7421/2392/6010)	ORGANIC LEAD	BCI
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COMMENTS

61207

✓
 ✓
 ✓
 ✓
 PRESERVATIVE APPROPRIATE CONTAINERS ✓
 VOA ✓
 HEAD SPACE ABSENT ✓

RELINQUISHED BY: *[Signature]* DATE: 2/7/96 TIME: 1635
 RECEIVED BY: *[Signature]*
 RELINQUISHED BY: DATE: TIME: RECEIVED BY:
 RELINQUISHED BY: DATE: TIME: RECEIVED BY LABORATORY:

REMARKS: **RUSH - ASAP**

McCAMPBELL ANALYTICAL INC.

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

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

QC REPORT FOR HYDROCARBON ANALYSES

Date: 02/07/96-02/08/96

Matrix: Water

Analyte	Concentration (ug/L) Sample (#60731)			Amount Spiked	% Recovery		RPD
	MS	MSD			MS	MSD	
TPH (gas)	0.0	102.1	98.2	100	102	98	3.9
Benzene	0	10	10	10	101.0	103.0	2.0
Toluene	0	10	11	10	103.0	106.0	2.9
Ethyl Benzene	0	10	10	10	104.0	104.0	0.0
Xylenes	0	32	32	30	106.3	106.0	0.3
TPH (diesel)	0	151	147	150	101	98	2.7
TRPH (oil & grease)	0	23300	24700	23700	98	104	5.8

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

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

AGPX234

PROJECT NUMBER		PROJECT NAME				Number of Cntrs	Type of Containers	Type of Analysis						Condition of Samples	Initial
Send Report Attention of:		Report Due		Verbal Due											
Sample Number	Date	Time	Comp	Grab	Station Location										
C95041		WASH PACIFIC CONSTRUCTION EBMUD ADSLINE SITE						TPH, GRS, BTEX THH, HAN, METALS							
DAVID Glick		/ /		/ /											
WS1A, B	2/8/96	1410		/	N. WASH SEEPAGE INTO SRC.	2EA	ACID CSD 40ML VOA	✓	✓					61284	
<p>ISBT? <input checked="" type="checkbox"/></p> <p>GOOD CONDITION <input checked="" type="checkbox"/></p> <p>HEAD SPACE ABSENT <input checked="" type="checkbox"/></p> <p>PRESERVATIVE <input checked="" type="checkbox"/></p> <p>APPROPRIATE CONTAINERS <input checked="" type="checkbox"/></p>															
Relinquished by: (Signature)		Date/Time		Received by: (Signature)		Date/Time		Remarks: TUSH - 24 HR							
<i>[Signature]</i>		2/8/96 17:30		<i>Angela Rydeman</i>		2/8/96 17:30									
Relinquished by: (Signature)		Date/Time		Received by: (Signature)		Date/Time									
Relinquished by: (Signature)		Date/Time		Received by: (Signature)		Date/Time									

Geo Plexus, Inc. 1900 Wyatt Drive, # 1 Santa Clara, Ca. 95054	Client Project ID: # C95041; Walsh Pacific, EBMUD Adeline Site	Date Sampled: 02/08/96
	Client Contact: David Glick	Date Received: 02/08/96
	Client P.O:	Date Extracted: 02/08/96
		Date Analyzed: 02/08/96

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with BTEX*

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

Lab ID	Client ID	Matrix	TPH(g) ⁺	Benzene	Toluene	Ethylbenzene	Xylenes	% Rec. Surrogate
61284	WS1B	W	ND	ND	ND	ND	1.2	104
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit	W	50 ug/L	0.5	0.5	0.5	0.5	0.5	
	S	1.0 mg/kg	0.005	0.005	0.005	0.005	0.005	

* water and vapor samples are reported in ug/L, soil 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, # 1 Santa Clara, Ca. 95054	Client Project ID: # C95041; Walsh Pacific, EBMUD Adeline Site	Date Sampled: 02/08/96
	Client Contact: David Glick	Date Received: 02/08/96
	Client P.O:	Date Extracted: 02/08/96
		Date Analyzed: 02/08/96

Volatile Halocarbons

EPA method 601 or 8010

Lab ID	61284		
Client ID	WS1A		
Matrix	W		

Compound	Concentration*		
Bromodichloromethane	ND		
Bromoform ^(b)	ND		
Bromomethane	ND		
Carbon Tetrachloride ^(c)	ND		
Chlorobenzene	ND		
Chloroethane	ND		
2-Chloroethyl Vinyl Ether ^(d)	ND		
Chloroform ^(e)	0.81		
Chloromethane	ND		
Dibromochloromethane	ND		
1,2-Dichlorobenzene	ND		
1,3-Dichlorobenzene	ND		
1,4-Dichlorobenzene	ND		
Dichlorodifluoromethane	ND		
1,1-Dichloroethane	ND		
1,2-Dichloroethane	ND		
1,1-Dichloroethene	ND		
cis 1,2-Dichloroethene	ND		
trans 1,2-Dichloroethene	ND		
1,2-Dichloropropane	ND		
cis 1,3-Dichloropropene	ND		
trans 1,3-Dichloropropene	ND		
Methylene Chloride ^(f)	ND		
1,1,2,2-Tetrachloroethane	ND		
Tetrachloroethene	ND		
1,1,1-Trichloroethane	ND		
1,1,2-Trichloroethane	ND		
Trichloroethene	ND		
Trichlorofluoromethane	ND		
Vinyl Chloride ^(g)	ND		
% Recovery Surrogate	117		
Comments			

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

Reporting limit unless otherwise stated: water/TCLP extracts, ND < 0.5ug/L; soil, 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;
(h) a lighter than water immiscible sheen is present; (i) liquid sample that contains greater than ~ 5 vol. % sediment.

McCAMPBELL ANALYTICAL INC.

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

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

QC REPORT FOR HYDROCARBON ANALYSES

Date: 02/07/96-02/08/96

Matrix: Water

Analyte	Concentration (ug/L) Sample (#60731)			Amount Spiked	% Recovery		
	MS	MSD			MS	MSD	RPD
TPH (gas)	0.0	102.1	98.2	100	102	98	3.9
Benzene	0	10	10	10	101.0	103.0	2.0
Toluene	0	10	11	10	103.0	106.0	2.9
Ethyl Benzene	0	10	10	10	104.0	104.0	0.0
Xylenes	0	32	32	30	106.3	106.0	0.3
TPH (diesel)	0	151	147	150	101	98	2.7
TRPH (oil & grease)	0	23300	24700	23700	98	104	5.8

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

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

McCAMPBELL ANALYTICAL INC.

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

QC REPORT FOR EPA 8010/8020/EDB

Date: 02/08/96

Matrix: Water

Analyte	Concentration (ug/L)				% Recovery		
	Sample (#59973)	MS	MSD	Amount Spiked	MS	MSD	RPD
1,1-DCE	0.0	9.3	9.5	10.0	93	95	2.1
Trichloroethene	0.0	10.2	10.5	10.0	102	105	2.9
EDB	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chlorobenzene	0.0	9.7	9.4	10.0	97	94	3.1
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

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

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

PROJECT NUMBER		PROJECT NAME				Number of Cntrns	Type of Containers	Type of Analysis										Condition of Samples	Initial
Send Report Attention of:		Report Due		Verbal Due															
Sample Number	Date	Time	Comp	Grab	Station Location														
KARL MAYO @ EBMUD		/ /		/ /															
WS-2A, B	2/8/96	1430		1	EXCAVATION 345 PAGE - NORTH W/11	2EA	40 ml VOA UNACIDIFIED	TDI HAZARDOUS <input checked="" type="checkbox"/>										61283	
ICE/F ^o <input checked="" type="checkbox"/> PRESERVATIVE <input checked="" type="checkbox"/> GOOD CONDITION <input checked="" type="checkbox"/> APPROPRIATE CONTAINERS <input checked="" type="checkbox"/> HEAD SPACE ABSENT <input checked="" type="checkbox"/>																			
Relinquished by: (Signature)		Date/Time		Received by: (Signature)		Date/Time		Remarks: CHECK W/ KARL MAYO FOR VERIFICATION OF ANALYSIS AND BILLING PROCESS.											
<i>[Signature]</i>		2/8/96 17:30		<i>[Signature]</i>		2/8/96 17:30		(FAX TO EBMUD ATTN: KARL MAYO) GeoPlexus ORIGINAL AND INVOICES TO EBMUD											
Relinquished by: (Signature)		Date/Time		Received by: (Signature)		Date/Time		ATTN: KARL MAYO PH (510) 297-1279 FAX (510) 835-8729											
Relinquished by: (Signature)		Date/Time		Received by: (Signature)		Date/Time													

Geo Plexus, Inc. 1900 Wyatt Drive, # 1 Santa Clara, Ca. 95054	Client Project ID: East Bay Utility District- Adeline M.C.	Date Sampled: 02/08/96
	Client Contact: David Glick/Karl Mayo	Date Received: 02/08/96
	Client P.O.:	Date Extracted: 02/08/96
		Date Analyzed: 02/08/96

Volatile Halocarbons

EPA method 601 or 8010

Lab ID	61283		
Client ID	WS-2A		
Matrix	W		

Compound	Concentration*		
Bromodichloromethane	ND		
Bromoform ^(b)	ND		
Bromomethane	ND		
Carbon Tetrachloride ^(c)	ND		
Chlorobenzene	ND		
Chloroethane	ND		
2-Chloroethyl Vinyl Ether ^(d)	ND		
Chloroform ^(e)	0.83		
Chloromethane	ND		
Dibromochloromethane	ND		
1,2-Dichlorobenzene	ND		
1,3-Dichlorobenzene	ND		
1,4-Dichlorobenzene	ND		
Dichlorodifluoromethane	ND		
1,1-Dichloroethane	ND		
1,2-Dichloroethane	ND		
1,1-Dichloroethene	ND		
cis 1,2-Dichloroethene	ND		
trans 1,2-Dichloroethene	ND		
1,2-Dichloropropane	ND		
cis 1,3-Dichloropropene	ND		
trans 1,3-Dichloropropene	ND		
Methylene Chloride ^(f)	ND		
1,1,2,2-Tetrachloroethane	ND		
Tetrachloroethene	ND		
1,1,1-Trichloroethane	ND		
1,1,2-Trichloroethane	ND		
Trichloroethene	ND		
Trichlorofluoromethane	ND		
Vinyl Chloride ^(g)	ND		
% Recovery Surrogate	90		
Comments			

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

Reporting limit unless otherwise stated: water/TCLP extracts, ND < 0.5ug/L; soil, 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;
 (h) a lighter than water immiscible sheen is present; (i) liquid sample that contains greater than ~ 5 vol. % sediment.

McCAMPBELL ANALYTICAL INC.

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

QC REPORT FOR EPA 8010/8020/EDB

Date: 02/08/96

Matrix: Water

Analyte	Concentration (ug/L)				% Recovery		
	Sample (#59973)	MS	MSD	Amount Spiked	MS	MSD	RPD
1,1-DCE	0.0	9.3	9.5	10.0	93	95	2.1
Trichloroethene	0.0	10.2	10.5	10.0	102	105	2.9
EDB	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chlorobenzene	0.0	9.7	9.4	10.0	97	94	3.1
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

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

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

5056A67240

PROJECT NUMBER		PROJECT NAME				Number of Cntrs	Type of Containers	Type of Analysis				Condition of Samples	Initial
Send Report Attention of:		Report Due		Verbal Due									
Sample Number	Date	Time	Comp	Grab	Station Location								
C95041		WALSH PACIFIC CONSTRUCTION SBMUD AMC											
DAVID GILL		1 1		1 1									
BAKER TANK 1A, B	2/13/96	1435		1	BAKER TANK WATER	2CA	ACIDIFIED 40 ML JDA	TPH GAS / STEK				61456	
BAKER TANK 2A	2/13/96	1435		1	BAKER TANK WATER	1CA	1 LTR AMBER	TPH CHLSEL				61456	
<p>ICE? <input checked="" type="checkbox"/> PRESERVATIVE APPROPRIATE CONTAINERS <input checked="" type="checkbox"/></p> <p>GOOD CONDITION <input checked="" type="checkbox"/> HEAD SPACE ABSENT <input checked="" type="checkbox"/> VIALS TO GC METALS TO HPLC <input checked="" type="checkbox"/></p>													
Relinquished by: (Signature)		Date/Time	Received by: (Signature)		Date/Time	Remarks: RUSH - ASAP							
<i>David Gill</i>		2/13/96 1500	<i>Rentman</i>		2/13/96 1500								
Relinquished by: (Signature)		Date/Time	Received by: (Signature)		Date/Time								
<i>Rentman</i>		2/13/96 4545	<i>Dr V</i>		2/13/96								

QC REPORT FOR HYDROCARBON ANALYSES

Date: 02/13/96-02/14/96

Matrix: Water

Analyte	Concentration (ug/L) Sample (#61296)			Amount Spiked	% Recovery		RPD
	MS	MSD			MS	MSD	
TPH (gas)	0.0	104.9	104.1	100	105	104	0.7
Benzene	0.0	9.5	8.8	10.0	95.0	88.0	7.7
Toluene	0.0	9.6	9.5	10.0	96.0	95.0	1.0
Ethyl Benzene	0.0	9.6	9.5	10.0	96.0	95.0	1.0
Xylenes	0.0	28.7	28.1	30.0	95.7	93.7	2.1
TPH (diesel)	0	146	148	150	98	98	0.8
TRPH (oil & grease)	0	22300	24700	23700	94	104	10.2

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

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

PROJECT NUMBER		PROJECT NAME				Number of Cntrs	Type of Containers	Type of Analysis								Condition of Samples	Initial
Send Report Attention of:		Report Due		Verbal Due				TPH9/BTEX	TRICHLOROMETHANES								
Sample Number	Date	Time	Comp	Grab	Station Location												
C95041		WALSH PACIFIC CONSTRUCTION EBWD AMC															
David Glick		/ /		/ /													
SW-EX-WSIANB	2/13/96	1450		1	SOUTH WEST EXCAVATION	2ea	Acidified 40 ml VFA	✓	✓							61454	
<p>ICE/° ✓ GOOD CONDITION HEAD SPACE ABSENT PRESERVATIVE APPROPRIATE CONTAINERS ✓ WAS LOG METALS OTHER ✓</p>																	
Relinquished by: (Signature)		Date/Time		Received by: (Signature)		Date/Time		Remarks: <u>RUSH - ASAP</u>									
[Signature]		2/13/95 1500		Ron Hamilton		2/13/96 1500											
Relinquished by: (Signature)		Date/Time		Received by: (Signature)		Date/Time											
Ron Hamilton		2/13/96 1545		Duke		2/13/96											

Geo Plexus, Inc. 1900 Wyatt Drive, # 1 Santa Clara, Ca. 95054	Client Project ID: # C95041; Walsh Pacific Const., EBMUD AMC	Date Sampled: 02/13/96
		Date Received: 02/13/96
	Client Contact: David Glick	Date Extracted: 02/13/96
	Client P.O:	Date Analyzed: 02/13/96

Volatile Halocarbons

EPA method 601 or 8010

Lab ID	61454		
Client ID	SW-EX-WS1B		
Matrix	W		

Compound	Concentration *		
Bromodichloromethane	ND		
Bromoform ^(b)	ND		
Bromomethane	ND		
Carbon Tetrachloride ^(c)	ND		
Chlorobenzene	ND		
Chloroethane	ND		
2-Chloroethyl Vinyl Ether ^(d)	ND		
Chloroform ^(e)	1.1		
Chloromethane	ND		
Dibromochloromethane	ND		
1,2-Dichlorobenzene	ND		
1,3-Dichlorobenzene	ND		
1,4-Dichlorobenzene	ND		
Dichlorodifluoromethane	ND		
1,1-Dichloroethane	ND		
1,2-Dichloroethane	ND		
1,1-Dichloroethene	ND		
cis 1,2-Dichloroethene	ND		
trans 1,2-Dichloroethene	ND		
1,2-Dichloropropane	ND		
cis 1,3-Dichloropropene	ND		
trans 1,3-Dichloropropene	ND		
Methylene Chloride ^(f)	ND		
1,1,2,2-Tetrachloroethane	ND		
Tetrachloroethene	ND		
1,1,1-Trichloroethane	ND		
1,1,2-Trichloroethane	ND		
Trichloroethene	ND		
Trichlorofluoromethane	ND		
Vinyl Chloride ^(g)	ND		
% Recovery Surrogate	114		
Comments			

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

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

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

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QC REPORT FOR HYDROCARBON ANALYSES

Date: 02/13/96

Matrix: Water

Analyte	Concentration (ug/L)			Amount Spiked	% Recovery		
	Sample (#61296)	MS	MSD		MS	MSD	RPD
TPH (gas)	0.0	104.9	104.1	100	105	104	0.7
Benzene	0.0	9.5	8.8	10.0	95.0	88.0	7.7
Toluene	0.0	9.6	9.5	10.0	96.0	95.0	1.0
Ethyl Benzene	0.0	9.6	9.5	10.0	96.0	95.0	1.0
Xylenes	0.0	28.7	28.1	30.0	95.7	93.7	2.1
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 EPA 8010/8020/EDB

Date: 02/13/96

Matrix: Water

Analyte	Concentration (ug/L)				% Recovery		
	Sample (#59973)	MS	MSD	Amount Spiked	MS	MSD	RPD
1,1-DCE	0.0	10.5	9.0	10.0	105	90	15.4
Trichloroethene	0.0	9.0	9.6	10.0	90	96	6.5
EDB	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chlorobenzene	0.0	9.2	9.0	10.0	92	90	2.2
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

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

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

5874AGPX241

PROJECT NUMBER C95041		PROJECT NAME UPUSH PACIFIC / EB MUD				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				<table border="1"> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>																												
Sample Number	Date	Time	Comp	Grab	Station Location																															
BT 1A, B	2/21/96	1020		1	BAKER TANK	2CA	1LTA AMBER											61674																		
						VOCS O&G METALS OTHER																														
ICE/T°		GOOD CONDITION		PRESERVATIVE APPROPRIATE																																
HEAD SPACE ABSENT				CONTAINERS																																
Relinquished by: (Signature)		Date/Time		Received by: (Signature)		Date/Time		Remarks: URGENT SAME DAY RUSH																												
<i>[Signature]</i>		2/21/96 1110		<i>[Signature]</i>		2-21-96 1110																														
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: 02/21/96

Matrix: Water

Analyte	Concentration (ug/L) Sample (#61570)			Amount Spiked	% Recovery		
	MS	MSD			MS	MSD	RPD
TPH (gas)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
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
Ethyl Benzene	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Xylenes	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TPH (diesel)	0	167	169	150	111	113	1.4
TRPH (oil & grease)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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

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

McCAMPBELL ANALYTICAL INC.

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QC REPORT FOR HYDROCARBON ANALYSES

Date: 02/27/96-02/28/96

Matrix: Water

Analyte	Concentration (ug/L) Sample (#61777)			Amount Spiked	% Recovery		RPD
	MS	MSD	MSD		MS	MSD	
TPH (gas)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
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
Ethyl Benzene	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Xylenes	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TPH (diesel)	0	136	135	150	91	90	1.2
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 HYDROCARBON ANALYSES

Date: 03/06/96-03/07/96

Matrix: Water

Analyte	Concentration (ug/L) Sample (#62135)			Amount Spiked	% Recovery		RPD
	MS	MSD			MS	MSD	
TPH (gas)	0.0	100.1	99.3	100.0	100.1	99.3	0.8
Benzene	0.0	9.8	9.9	10.0	98.0	99.0	1.0
Toluene	0.0	10.2	10.3	10.0	102.0	103.0	1.0
Ethyl Benzene	0.0	10.4	10.5	10.0	104.0	105.0	1.0
Xylenes	0.0	32.0	32.0	30.0	106.7	106.7	0.0
TPH (diesel)	0	156	162	150	104	108	3.4
TRPH (oil & grease)	0	21900	22300	23700	92	94	1.8

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

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

6014 AGPX2H8

PROJECT NUMBER		PROJECT NAME				Number of Cntrs	Type of Containers	Type of Analysis										Condition of Samples	Initial
Send Report Attention of:		Report Due		Verbal Due				TPH	BZE	MTBE	TPH	BZE	MTBE	TPH	BZE	MTBE	TPH		
Sample Number	Date	Time	Comp	Grab	Station Location														
SFCW-1A	3/14/96	1550		1	LARGE EXCAV. S. CORNER	1CA	ACIDIFIED 40 ML VOA	✓											62410
SFCW-1B		1550		1	LARGE EXCAV. S. CORNER		1LTR AMBER		✓										62411
SFCW-2A		1555		1	LARGE EXCAV N. CORNER		ACIDIFIED 40 ML VOA	✓											62412
SFCW 3A		1605		1	SMALL EXCAV.		ACIDIFIED 40 ML VOA	✓											62413
SFCW 3B		1605		1	SMALL EXCAV.		1LTR AMBER		✓										62414
/																			
Relinquished by: (Signature)		Date/Time		Received by: (Signature)		Date/Time		Remarks: 24 HR TUSH											
Relinquished by: (Signature)		Date/Time		Received by: (Signature)		Date/Time													
Relinquished by: (Signature)		Date/Time		Received by: (Signature)		Date/Time													

ICE/T° PRESERVATIVE
 GOOD CONDITION APPROPRIATE
 HEAD SPACE ABSENT CONTAINERS

Geo Plexus, Inc. 1900 Wyatt Drive, # 1 Santa Clara, Ca. 95054	Client Project ID: # C95040; Walsh Pacific Const., EBMUD Adeline Site	Date Sampled: 03/14/96
	Client Contact: David Glick	Date Received: 03/14/96
	Client P.O:	Date Extracted: 03/14/96
		Date Analyzed: 03/14/96

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with MTBE & 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
62410	SFCW-1A	W	100,a	ND	6.5	ND	1.4	2.3	105
62412	SFCW-2A	W	73,a	ND	4.4	2.1	2.4	8.1	105
62413	SFCW-3A	W	ND	ND	ND	ND	ND	ND	104
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	0.5	
	S	1.0 mg/kg	0.05	0.005	0.005	0.005	0.005	0.005	

* water and vapor samples are reported in ug/L, soil 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, # 1 Santa Clara, Ca. 95054	Client Project ID: # C95040; Walsh Pacific Const., EBMUD Adeline Site	Date Sampled: 03/14/96
	Client Contact: David Glick	Date Received: 03/14/96
	Client P.O:	Date Extracted: 03/14/96
		Date Analyzed: 03/14/96

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
62411	SFCW-1B	W	330,c	103
62414	SFCW-3B	W	ND	100
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 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.

QC REPORT FOR HYDROCARBON ANALYSES

Date: 03/14/96

Matrix: Water

Analyte	Concentration (ug/L)			Amount Spiked	% Recovery		
	Sample (#62308)	MS	MSD		MS	MSD	RPD
TPH (gas)	0.0	104.4	94.0	100.0	104.4	94.0	10.5
Benzene	0.0	10.4	10.0	10.0	104.0	100.0	3.9
Toluene	0.0	10.6	10.2	10.0	106.0	102.0	3.8
Ethyl Benzene	0.0	10.6	10.3	10.0	106.0	103.0	2.9
Xylenes	0.0	32.1	31.2	30.0	107.0	104.0	2.8
TPH (diesel)	0	162	157	150	108	105	2.8
TRPH (oil & grease)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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

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

6114AGPX258

PROJECT NUMBER		PROJECT NAME				Number of Cntrs	Type of Containers	Type of Analysis								Condition of Samples	Initial										
C95041		WAZSA PACIFIC CONSTRUCTION 88MUD AMC						<table border="1"> <tr> <td>TPH</td> <td>TPH</td> <td>TPH</td> <td>TPH</td> <td>TPH</td> <td>TPH</td> <td>TPH</td> <td>TPH</td> <td>TPH</td> <td>TPH</td> <td>TPH</td> <td>TPH</td> <td>TPH</td> <td>TPH</td> </tr> </table>										TPH	TPH	TPH	TPH	TPH	TPH	TPH	TPH	TPH	TPH
TPH	TPH	TPH	TPH	TPH	TPH	TPH	TPH	TPH	TPH	TPH	TPH	TPH	TPH														
Send Report Attention of:				Report Due		Verbal Due																					
DAVID BLICK				/ /		/ /																					
Sample Number	Date	Time	Comp	Grab	Station Location																						
HOLDING TANK 1A,B	3/25/96	1200		1	HOLDING TANK	2CA	ACIDIFIED 40 ml VON	✓								62790											
HOLDING TANK 2A	3/18/96	1200		1	HOLDING TANK	1CA	1LTR AMBER	✓								62791											
<p>ICE/T° ✓ GOOD CONDITION ✓ HEAD SPACE ABSENT ✓</p> <p>PRESERVATIVE ✓ APPROPRIATE CONTAINERS ✓</p> <p>WAS TAG METAL STOPPER</p>																											
Relinquished by: (Signature)		Date/Time		Received by: (Signature)		Date/Time		Remarks: RUSH PROCESSING - A3AD																			
<i>David Blick</i>		3/20/96 17:55		<i>Ronald Hamilton</i>		3/20/96 17:55																					
Relinquished by: (Signature)		Date/Time		Received by: (Signature)		Date/Time																					
<i>Ronald Hamilton</i>		3/22/96 17:30		<i>David Blick</i>		3-28-96 1330																					

Geo Plexus, Inc. 1900 Wyatt Drive, # 1 Santa Clara, Ca. 95054	Client Project ID: # C95041; Walsh Pacific Construction EBMUD AMC	Date Sampled: 03/28/96
	Client Contact: David Glick	Date Received: 03/28/96
	Client P.O:	Date Extracted: 03/28/96
		Date Analyzed: 03/28/96

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with 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) ⁺	Benzene	Toluene	Ethylbenzene	Xylenes	% Rec. Surrogate
62790	Holding Tank 1A	W	ND	ND	ND	ND	ND	100
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit	W	50 ug/L	0.5	0.5	0.5	0.5	0.5	
	S	1.0 mg/kg	0.005	0.005	0.005	0.005	0.005	

* water and vapor samples are reported in ug/L, soil 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.

McCAMPBELL ANALYTICAL INC.

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

QC REPORT FOR HYDROCARBON ANALYSES

Date: 03/28/96-03/29/96

Matrix: Water

Analyte	Concentration (ug/L)			Amount Spiked	% Recovery		
	Sample (#62791)	MS	MSD		MS	MSD	RPD
TPH (gas)	0.0	102.0	100.5	100.0	102.0	100.5	1.4
Benzene	0.0	9.9	9.8	10.0	99.0	98.0	1.0
Toluene	0.0	10.0	9.9	10.0	100.0	99.0	1.0
Ethyl Benzene	0.0	9.9	9.8	10.0	99.0	98.0	1.0
Xylenes	0.0	29.2	28.7	30.0	97.3	95.7	1.7
TPH (diesel)	0	146	147	150	97	98	0.6
TRPH (oil & grease)	0	25200	24000	23700	106	101	4.9

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

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

APPENDIX F

REMCO CERTIFICATE OF THERMAL DESTRUCTION

Certificate of Remediation

This is to certify that REMCO, in accordance with Title 22 CDOHS, has accepted and caused 3244.81 tons of H.C. material to be recycled under the guidelines of federal, state, and local laws and regulations.

The H.C. material was received 02/06/96. In receiving and processing the H.C. material and in providing this certificate, REMCO has relied upon and is relying upon (a) the representation of the generator that the H.C. material does not contain any materials classified as "Hazardous Waste" under the applicable provisions of the federal and California law and has been managed and may be treated as other than Hazardous Waste, and (b) the generator has independent written certification from applicable governmental agencies of certified independent testing laboratories that the H.C. material does not contain any materials classified as, and is not classified as, "Hazardous Waste" under said applicable law.

REMCO shall indemnify, defend and hold harmless the generator from and against any enforcement actions by any governmental authority in the event that any of the representations by REMCO set forth in this certificate are materially inaccurate. Provided however that this indemnity shall be limited to a maximum of the amount paid to REMCO by the generator for processing this H.C. material.

Generator:

East Bay MUD
1199 21st
Oakland, Ca. 94607
Supplier:
Bay Cities Paving
2221 Commerce Dr.
Concord, Ca. 94520

Remco
Recycling For The Future
2717 Goodrick Ave.
Richmond, Ca. 94801
(510)237-5866

BY: _____

Date: 05/28/96

Certificate # R-165