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1.0 INTRODUCTION

The subject site is located at 1401 Grand Avenue, in the City of San Leandro in Alameda County, California (see Figure 1, Site Location Map), and is occupied by Coast Gas and Mini Mart (COAST). The contact person for COAST is Mr. Monmohan Chopra, whose telephone number is (510) 790-9252.

Bernabe & Brinker, Inc. (B&B) was contracted by Mr. Chopra, subsequent to the October 19, 1995, letter from the Alameda County Health Care Services Agency [(ACHCSA), attached in Appendix E, Correspondence], to remove a 500-gallon waste oil underground storage tank (UST), a 6000-gallon gasoline UST, two 7500-gallon gasoline UST's, and the fuel dispensers and associated piping from the site (see Figure 2, Site Map).

This TANK CLOSURE REPORT documents tank closure activities at the site.

2.0 TANK REMOVAL

Prior to beginning tank removal activities, B&B contacted the Bay Area Air Quality Management District (BAAQMD) and obtained an Excavation/Grading Permit (#EAG97007) from the City of San Leandro (see Appendix A, Permits and Receipts).

On May 5 and 6, 1997, tank removal activities began by removing asphalt, concrete and soil from over and around the tank locations to prepare them to be lifted to ground level. A total of about 200 cubic yards of soil were excavated during tank removal activities (see Figure 3 for Excavation Detail).

200 yes

A total of about 625 gallons of gasoline and waste oil sludge were removed from the four tanks under Uniform Hazardous Waste Manifest # 93604599 for disposal (see Appendix B for Disposal Manifests).

Prior to removal from the excavation on May 6, 1997, B&B attempted to purge the tanks of flammable vapors by displacement with 700 pounds of dry ice. Testing with a Gas-Tech Tank-Techtor Combustible Gas Indicator determined that the Lower Explosive Limit (LEL) and oxygen concentration readings indicated that the tanks were not within the safety parameters required for removal. At this time an additional 200 pounds of dry ice was added. Due to time factors 160, liters of nitrogen was introduced by high pressure into the tanks to purge the flammable vapors present. Subsequent testing indicated that the tanks were safe for removal.

After being lifted to ground surface the tanks were examined for evidence of leakage by Mr. Karl Busche of the San Leandro Fire Department (SLFD), Scott Seery of the ACHCSA and B&B representatives. All four tanks were of single-wall, steel construction.

The 500-gallon waste oil tank was rusted and exhibited a 4-inch hole in the bottom. The 6000-gallon tank displayed slight pitting and had a small drill hole on the top. One of the 7500-gallon tanks had two small rips caused by excavation procedures, and both 7500-gallon tanks exhibited slight pitting.

The tanks were transported off site by Universal Environmental of Benicia, California, to the disposal site at Americlean, Incorporated, of Silver Springs, Nevada. They were transported as hazardous waste under Uniform Hazardous Waste Manifest, State Manifest Document Numbers 96051551 and 96051552 (see Bills of Lading and Uniform Hazardous Waste Manifests in Appendix B, Disposal Manifests).

Tank removal and subsequent soil sampling activities were conducted in accordance with the California Regional Water Quality Control Board-San Francisco Bay Region's (CRWQCB) "Tri-Regional Board Staff Recommendations for Preliminary Evaluation and Investigation of Underground Tank Sites", dated 10 August, 1990.

Hydrocarbon contamination, as evidenced by staining and odor, was apparent within the tank excavation. Sludge from the tank was also visible in the bottom of the excavation at the location of the waste oil tank (see Figure 3, Excavation Map).

Groundwater was not encountered during excavation activities.

2.1 Soil Sampling and Chemical Analyses

After removal of the tanks, soil sampling was performed by P&D Environmental of Oakland, California. Six discrete soil samples were collected from the floor of the tank excavation and four discrete soil samples were collected from the location of the dispenser island (see Figure 3, Excavation and Sample Locations). The samples were collected by driving a clean 2-inch diameter by 6-inch long brass tube into the soil recovered by an excavator bucket with a slide-hammer sampling apparatus.

Soil samples Comp A and Comp B were taken from the stockpiled excavated soil for sample compositing by direct collection into brass tubes driven by a slide-hammer sampling apparatus below the stockpile surface.

After collecting each sample, the tube ends were covered with Teflon sheeting and capped with plastic end-caps. Each tube was labeled to show site address, project number, sample i.d., collection depth, date, time collected and sampler's name. The samples were then stored in an iced-cooler.

Samples collected for chemical analyses from the excavation and stockpile were transported in the iced-cooler to California Department of Health Services (DHS) certified McCampbell Analytical, Inc. located in Pacheco, California, accompanied by chain-of-custody documentation.

Excavation soil samples TP-1 through TP-6, dispenser island soil samples DP-1 through DP-4 and stocckpile composite samples Comp A and Comp B were analyzed for total petroleum hydrocarbons as gasoline (TPHG) by the United States Environmental Protection Agency (EPA) methods 5030/8015M; for methyl t-butyl ether (MTBE) and benzene, toluene, ethylbenzene and xylenes (BTEX) by EPA method 8020; and for TOTAL LEAD by EPA method 6010. In addition to the above analyses, excavation soil sample TP-6 was analyzed for petroleum hydrocarbons as diesel (TPHD) by EPA methods 3550/8015M; for total recoverable hydrocarbons as oil and grease (TRPH) by EPA method 418.1 and Standard Method 5520 C&F; for cadmium, chromium, lead, nickel and zinc (LUFT METALS) by EPA method 6010, and for volitile halocarbons (VHC) by EPA method 8010. On May 15, 1997, sample TP-6 was additionally analyzed for semi-volitile organic compounds (SVOC).

2.1.1 Results of Chemical Analyses

TPHG was detected in tank excavation soil samples TP-2 through TP-6 at concentrations of 3400 parts per million (ppm), 8.7 ppm, 4.5 ppm, 790 ppm and 170 ppm, respectively. Benzene was detected in the same samples at concentrations of 1.3 ppm, 0.024 ppm, 0.076 ppm, 2.2 ppm and 0.90 ppm, respectively. MTBE was detected in samples TP-3 through TP-5 at concentrations of 1.4 ppm, 5.5 ppm and 41 ppm, respectively. Soil sample TP-1 was non-detect for all analyses, with the exception of total lead, which was detected in all samples.

Soil sample analyses for sample TP-6 also detected TPHD and TRPH at concentrations of 300 ppm and 2600 ppm, respectively.

TPHG was detected in dispenser pit soil samples DP1, DP-2 and DP-4 and composite stockpile samples Comp A and Comp B at concentrations of 24 ppm, 17 ppm, 2200 ppm, 120 ppm and 310 ppm, respectively. Benzene was detected in DP-1, DP-2, DP-4 and Comp A at concentrations of 0.076 ppm, 0.012 ppm, 2.8 ppm and 0.068 ppm, respectively. MTBE was detected in samples DP-1 through DP-4 and Comp A and Comp B at concentrations of 7.4 ppm, 1.6 ppm, 0.12 ppm, 8.5 ppm, 10 ppm and 2.7 ppm, respectively. TOTAL LEAD was detected in all dispenser pit samples and both composite stockpile samples.

The reader is referred to Table 1 for a summary of TPHG, TPHD, MTBE and BTEX chemical concentrations; Table 2 for TOTAL LEAD concentrations and Table 3 for the TRPH concentration in soil sample TP-6.

In soil sample TP-6, LUFT METALS were detected, with the exception of cadmium. The reader is referred to Table 4 for a summary of LUFT METALS concentrations.

Results of analyses of soil sample TP-6 was non-detect for VHC, with the exception of tetrachloroethene and 1,1,1-trichloroethane at concentrations of 79 parts per billion (ppb) and 26 ppb, respectively.

On May 15, 1997, tank pit sample TP-6 was analyzed for SVOC. Concentrations of napthalene and 2-methylnapthalene were detected at concentrations of 0.60 ppm and 0.65 ppm, respectively.

Analytical results for all analyses are presented in Appendix C, Certified Laboratory Report and Chain-of-Custody.

3.0 OVEREXCAVATION AND SAMPLING

by their May 8, 1997, letter (see Appendix E, Correspondence). The excavation was deepened in order to remove hydrocarbon contamination apparent during the tank removal activities of May 6, 1997. Overexcavation of the soil from the bottom of the excavation reached a maximum depth of about 17.5 feet. Appendix 600 cubic yards of additional material was removed from the excavation and stockpiled and covered with plastic sheeting. Total volume of the soil removed from the excavation during tank removal and overexcavation activities was estimated at 800 cubic yards.

600 yes

Groundwater was not encountered during overexcavation activities.

3.1 Overexcavation Sampling and Chemical Analyses

After overexcavation activities were completed, discrete soil samples TP-7 through TP-17 were collected from beneath the former dispenser island location (see Figure 4, Overexcavation Sample Locations). The samples were collected by driving a clean 2-inch diameter by 6-inch long brass tube into the soil recovered by an excavator bucket with a slide-hammer sampling apparatus.

After collecting each sample, the tube ends were covered with Teflon sheeting and capped with plastic end-caps. Each tube was labeled to show site address, project number, sample i.d., collection depth, date, time collected and sampler's name. The samples were then stored in an iced-cooler.

Samples collected for chemical analyses by overexcavation were transported in the iced-cooler to DHS certified McCampbell Analytical, Inc., California accompanied by chain-of-custody documentation.

All soil samples were analyzed for TPHG by the EPA methods 5030/8015M; for MTBE and BTEX by EPA method 8020; and for TOTAL LEAD by EPA method 6010. In addition, soil sample TP-11 was analyzed for TRPH by EPA method 418.1 and for VHC by EPA method 8010.

3.1.1 Results of Overexcavation Sample Chemical Analyses

TPHG was detected in soil samples TP-10, TP-12, TP-13, TP-14, TP-15, DP-5 and DP-6 at concentrations of 4.2 ppm, 4.4 ppm, 1000 ppm, 320 ppm, 1.7 ppm, 4.8 ppm and 73 ppm, respectively. Benzene was detected in soil samples TP-9, TP-10, TP-13 and DP-5 at concentrations of 0.017 ppm, 6.3 ppm, 1.9 ppm and 0.012 ppm, respectively. The reader is referred to Table 5 for a summary of TPHG, MTBE and BTEX chemical concentrations.

TOTAL LEAD was detected in all soil samples. The reader is referred to Table 6 for results of chemical analysis for TOTAL LEAD.

TRPH and VOC were not detected in soil sample TP-11. Analytical results for all chemical analyses are presented as certified analytical reports and chain-of-custody documentation in Appendix C, Certified Laboratory Report and Chain-of Custody.

3.2 Stockpile Sampling and Chemical Analyses

Stockpile soil samples Comp C through Comp J were taken from the stockpiled excavated soil for sample compositing by direct collection into brass tubes driven by a slide-hammer sampling apparatus below the stockpile surface.

After collecting each sample, the tube ends were covered with Teflon sheeting and capped with plastic end-caps. Each tube was labeled to show site address, project number, sample i.d., collection depth, date, time collected and sampler's name. The samples were then stored in an iced-cooler.

Samples collected for chemical analyses from the excavation and stockpile were transported in the iced-cooler to DHS certified McCampbell Analytical, Inc., accompanied by chain-of-custody documentation.

All soil samples were analyzed for TPHG by the EPA methods 5030/8015M, for MTBE and BTEX by EPA method 8020 and for TOTAL LEAD by EPA method 6010.

3.2.1 Results of Stockpile Sampling Analyses

TPHG was detected in all composite stockpile soil samples, with composite stockpile samples Comp D and Comp I, notably, at concentrations of 3200 ppm and 1100 ppm, respectively. Some or all MTBE and BTEX chemicals were detected. The reader is referred to Table 7 for a summary of TPHG, MTBE and BTEX chemical concentrations.

TOTAL LEAD was detected in all soil samples. The reader is referred to Table 8 for results of chemical analysis for TOTAL LEAD.

Analytical results are presented in Appendix C, Certified Laboratory Report and Chain-of-Custody.

4.0 DISPOSITION OF STOCKPILED SOIL

On and between the dates of June 12 through 16, 1997, B&B disposed of about 800 cubic yards of stockpiled soil generated by the excavation activities. The soil was transported by Lutrel Trucking and Environmental Services, Inc., to B&J Landfill of Vacaville, California, under non-hazardous waste manifests attached in Appendix B, Disposal Manifests.

The excavation was subsequently backfilled with pea gravel as an 8000-gallon and a 12,00-gallon fiberglas, double-walled UST and associated piping and dispenser systems were set.

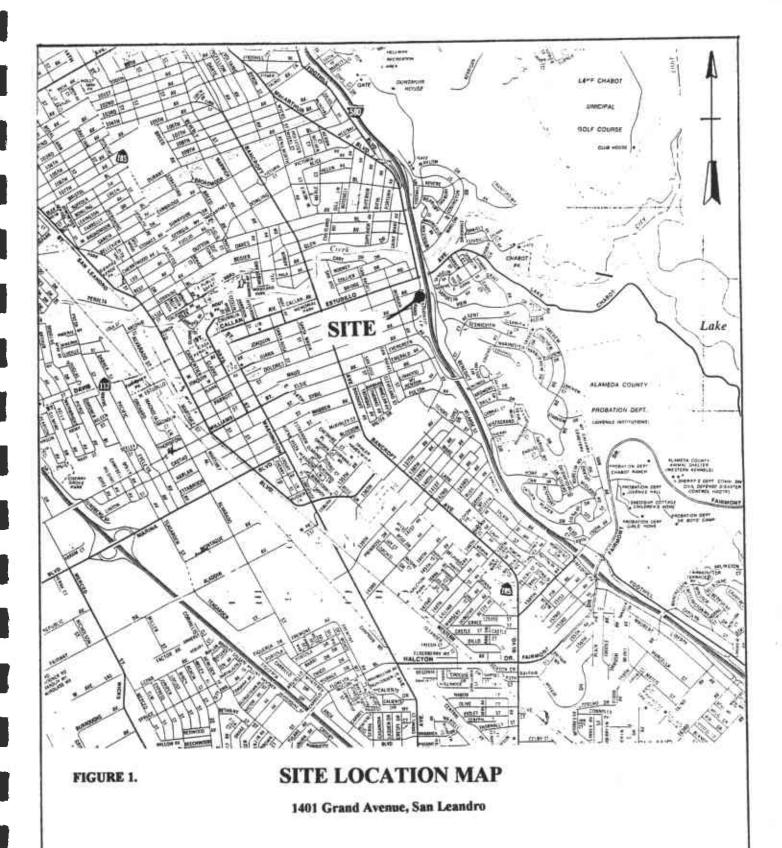
It has been Bernabe and Brinker's pleasure to be of service to you. Any questions pertaining to conditions of this report can be directly addressed to Bernabe and Brinker, Inc.

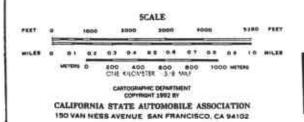
Sincerely,

Mark R. Varney

Geologist

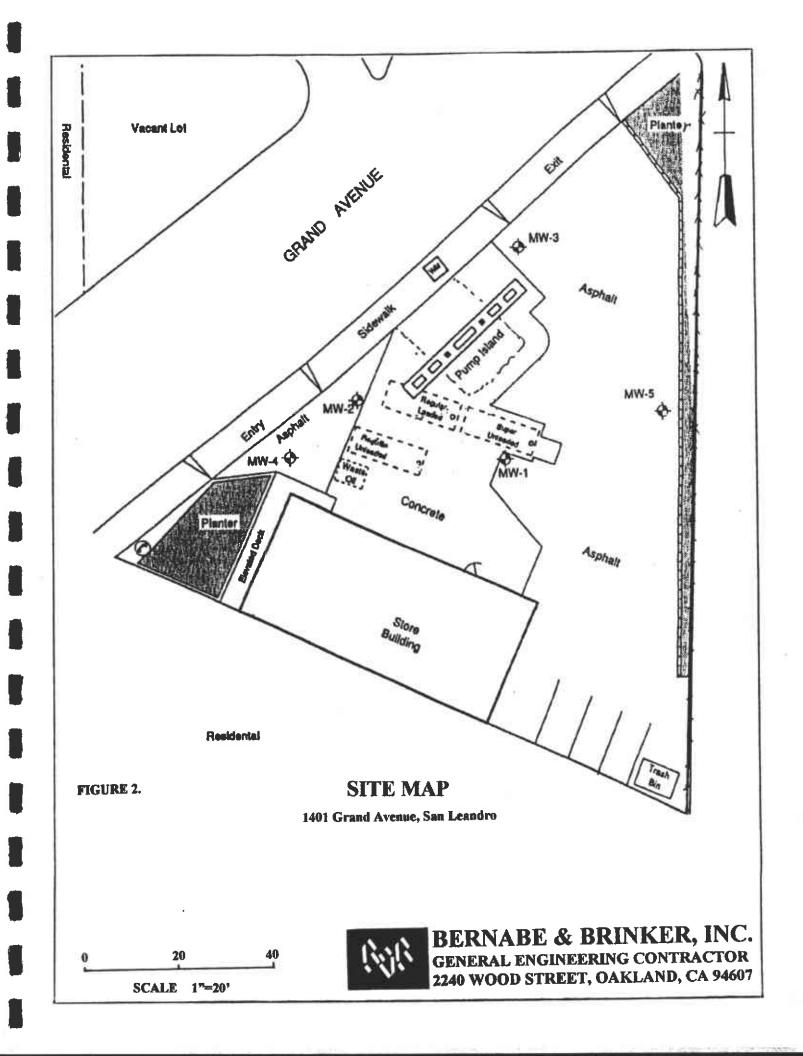
FIGURES

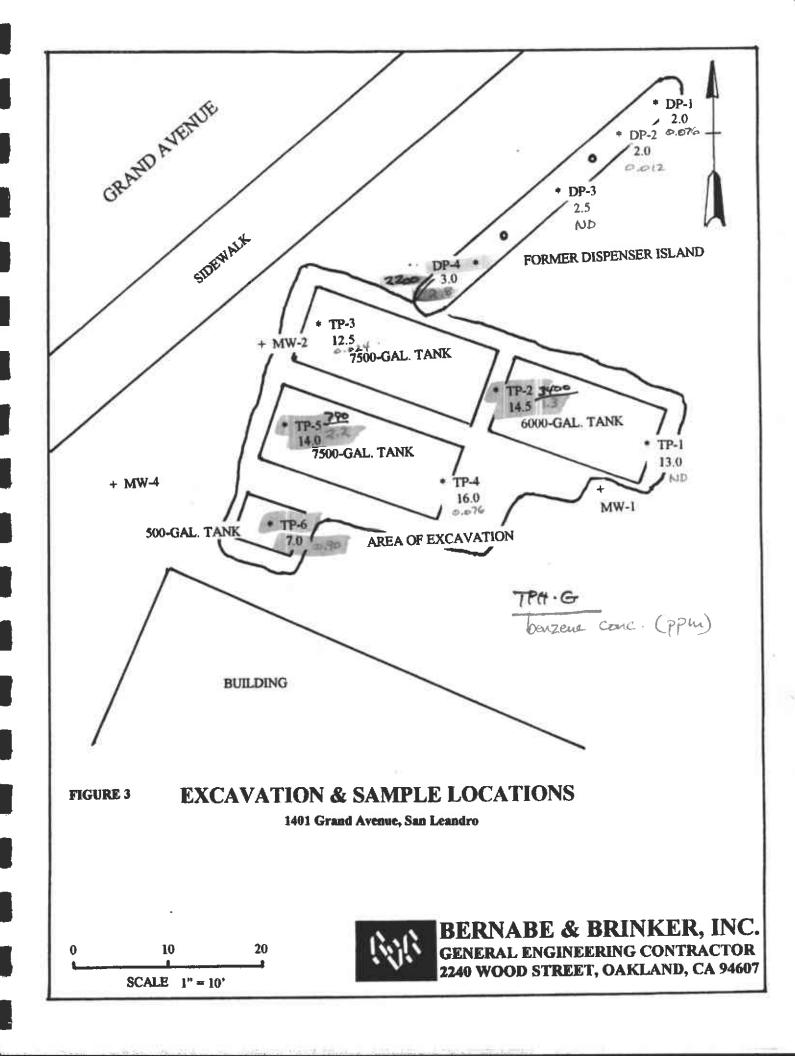


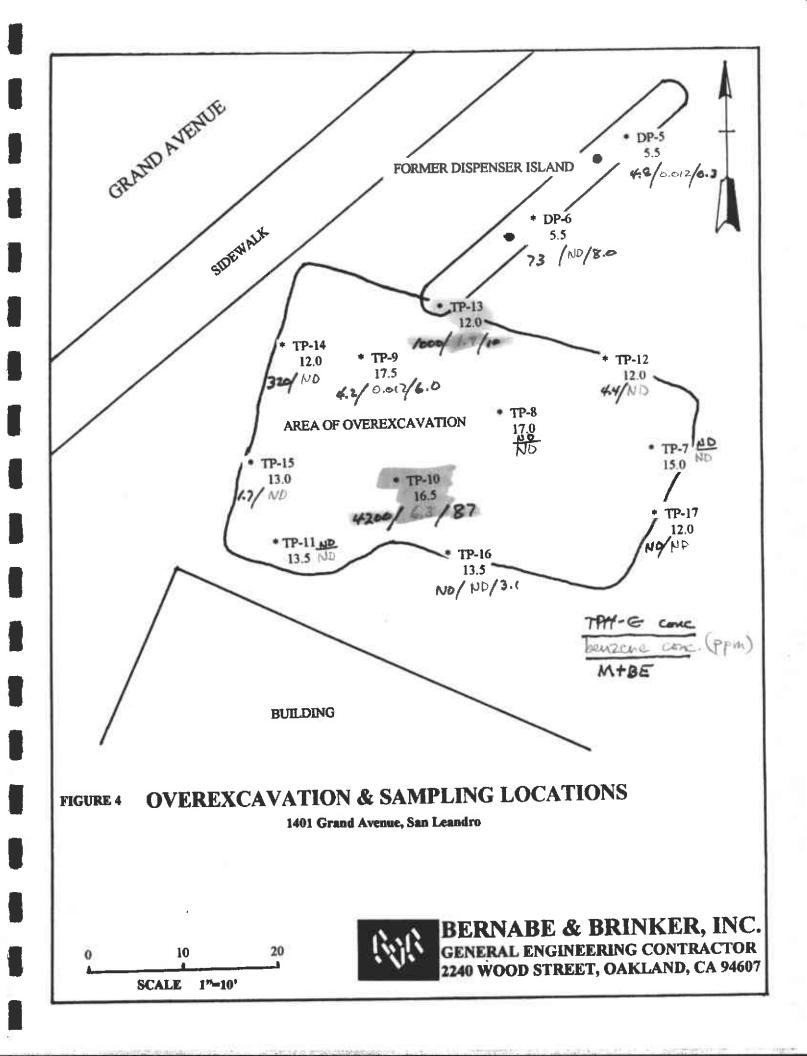


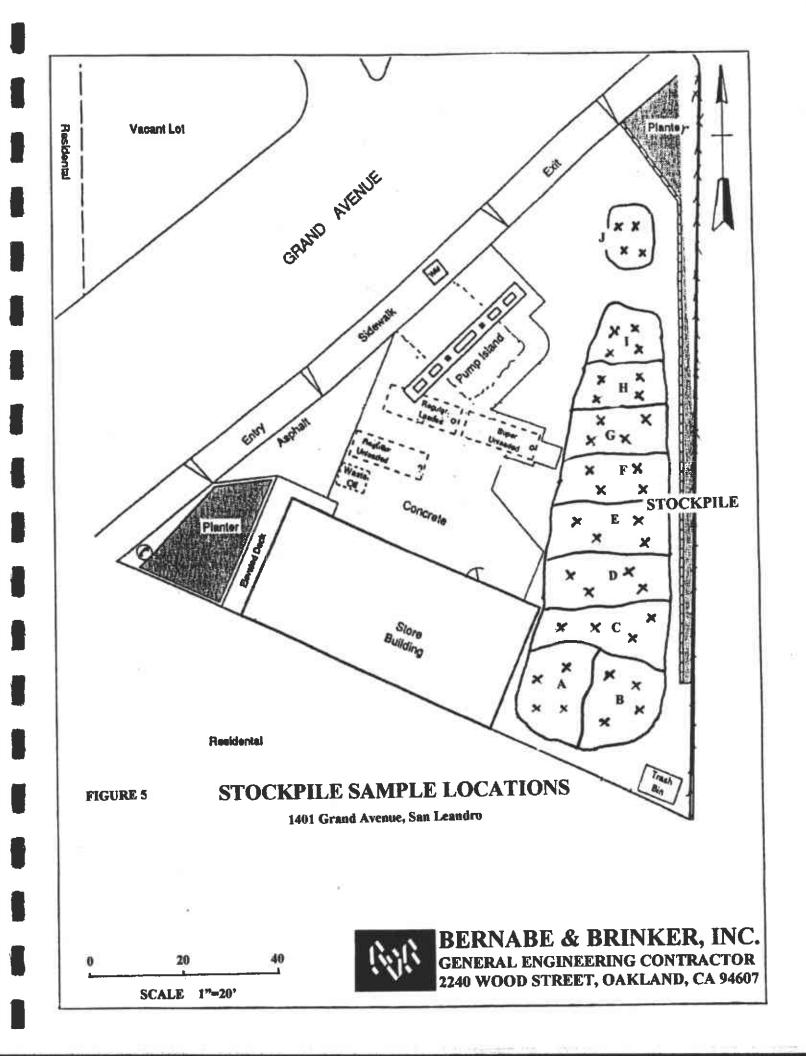


BERNABE & BRINKER, INC. GENERAL ENGINEERING CONTRACTOR 2240 WOOD STREET, OAKLAND, CA 94607









TABLES

Sample	Date	TPHG	TPHD	MTBE	Benzene	Toluene	Ethyl- benzene	Xylenes
TP-1	5/6/97	ND	NA [1]	ND	ND	ND	ND	ND
TP-2	5/6/97	3400	NA	ND <3.3	1.3	120	100	590
TP-3	5/6/97	8.7	NA	1.4	0.024	0.014	0.074	0.17
TP-4	5/6/97	4.5	NA	5.5	0.076	0.009	0.19	0.055
TP-5	5/6/97	790	NA	41	2.2	3.9	20	130
TP-6	5/6/97	170	300	ND <0.2	0.90	8.4	3.5	20
DP-1	5/6/97	24	NA	7.4	0.076	0.99	0.11	4.3
DP-2	5/6/97	17	NA	1.6	0.012	0.28	0.38	3.1
DP-3	5/6/97	ND	NA	0.12	ND	0.008	ND	0.026
DP-4	5/6/97	2200	NA	8.5	2.8	37	48	260
Comp A [2]	5/6/97	120	NA	10	0.068	0.92	0,36	5.3
Comp B	5/6/97	310	NA	2.7	ND <0.035	2.0	3.0	26
RL [3]		1.0	1.0	0.05	0.005	0.005	0.005	0.005

TABLE 1. RESULTS OF 506/99 OIL SAMPLE ANALYSIS (ppm) FOR TPHG, TPHD, MTBE AND BTEX FOR 1401 GRAND AVENUE, SAN LEANDRO

- [1] NOT ANALYZED
- [2] COMPOSITE SAMPLE
- [3] REPORTING LIMIT

Sample	Date	TOTAL LEAD
TP-1	5/6/97	7.3
TP-2	5/6/97	7.2
TP-3	5/6/97	11
TP-4	5/6/97	6.8
TP-5	5/6/97	97
DP-1	5/6/97	5.9
DP-2	5/6/97	6.8
DP-3	5/6/97	3.2
DP-4	5/6/97	16
Comp A [1]	5/6/97	66
Comp B	5/6/97	26
RL[2]		3.0

TABLE 2. RESULTS OF 5/6/97. SOIL SAMPLE ANALYSIS (ppm) FOR TOTAL LEAD FOR 1401 GRAND AVENUE, SAN LEANDRO

- [1] COMPOSITE SAMPLE
- [2] REPORTING LIMIT

Sample	Date	TRPH
TP-6	5/6/97	2600
RL[1]		10

TABLE 3. RESULTS OF 5/6/97 BOIL SAMPLE ANALYSIS (ppm) FOR TRPH FOR 1401 GRAND AVENUE, SAN LEANDRO

Sample	Date	Cadmium	Chromium	Lead	Nickel	Zinc
TP-6	5/6/97	ND	71	3.6	44	39
RL [1]	-	0.5	0.5	3.0	2.0	1.0

TABLE 4. RESULTS OF 5/6/97 SOIL SAMPLE ANALYSIS (ppm) FOR LUFT METALS FOR 1401 GRAND AVENUE, SAN LEANDRO

Sample	Date	TPHG	MTBE	Benzene	Toluene	Ethyl- benzene	Xylenes
TP-7	5/10/97	ND	ND	ND	0.010	0.005	0.019
TP-8	5/10/97	ND	ND	ND	0.016	0.006	0.035
TP-9	5/10/97	4.2	6.0	0.017	0,029	0.028	0.17
TP-10	5/10/97	4200	87	6.3	130	78	600
TP-11	5/10/97	ND	ND	ND	ND	ND	ND
TP-12	5/10/97	4.4	ND	ND	0.049	0,037	0.28
TP-13	5/10/97	1000	10	1.9	37	22	130
TP-14	5/10/97	320	ND < 0.75	ND < 0.044	0.35	1,0	2,7
TP-15	5/10/97	1.7	0.23	ND	0.012	0.005	0.020
TP-16	5/10/97	ND	3.1	ND	0.008	ND	0.012
TP-17	5/10/97	ND	ND	ND	0.037	0,006	0.038
DP-5	5/10/97	4.8	0.30	0.012	0.13	0.064	0.049
DP-6	5/10/97	73	8.0	ND < 0.02	0.14	0.11	3.2
RL [1]		1.0	0.05	0.005	0.005	0.005	0.005

TABLE 5. RESULTS OF 5/10/97 SOIL SAMPLE ANALYSIS (ppm) FOR TPHG, MTBE AND BTEX FOR 1401 GRAND AVENUE, SAN LEANDRO

Sample	Date	TOTAL LEAD
TP-7	5/10/97	6.8
TP-8	5/10/97	5,4
TP-9	5/10/97	6.2
TP-10	5/10/97	9.2
TP-12	5/10/97	6.6
TP-13	5/10/97	6.5
TP-14	5/10/97	10
TP-15	5/10/97	6.8
TP-16	5/10/97	6.7
TP-17	5/10/97	5.7
DP-5	5/10/97	3.1
DP-6	5/10/97	11
RL[1]	*******	3.0

TABLE 6. RESULTS OF 5/10/97 SOIL SAMPLE ANALYSIS (ppm) FOR TOTAL LEAD FOR 1401 GRAND AVENUE, SAN LEANDRO

Sample	Date	TPHG	МТВЕ	Benzene	Toluene	Ethyl- benzene	Xylenes
Comp C [1]	5/10/97	550	ND < 3.5	ND < 0.12	2.3	4.9	41
Comp D	5/10/97	3200	4.4	0.63	56	47	330
Comp E	5/10/97	72 0	ND < 2.5	ND < 0.10	0.72	2.2	34
Comp F	5/10/97	630	ND < 4.4	ND < 0.15	0.78	2.0	37
Comp G	5/10/97	410	ND < 0.92	ND < 0.05	0.52	1.1	15
Comp H	5/10/97	620	2.1	ND < 0.05	1.2	3.6	36
Comp I	5/10/97	1100	ND < 3.5	ND < 0.13	1.4	5.5	66
Comp J	5/10/97	400	ND < 1.4	ND < 0.073	0.44	1,0	15
RL [2]		1.0	0.05	0.005	0.005	0.005	0.005

TABLE 7. RESULTS OF 5/10/97 STOCKPILE SAMPLE ANALYSIS (ppm) FOR TPHG, MTBE AND BTEX FOR 1401 GRAND AVENUE, SAN LEANDRO

- [1] COMPOSITE SAMPLE
- [2] REPORTING LIMIT

Sample	Date	TOTAL LEAD
Comp C[1]	5/10/97	23
Comp D	5/10/97	22
Comp E	5/10/97	50
Comp F	5/10/97	26
Comp G	5/10/97	33
Comp H	5/10/97	51
Comp I	5/10/97	39
Comp J	5/10/97	52
RL[2]		3.0

TABLE 8. RESULTS OF 5/10/97 STOCKPILE SAMPLE ANALYSIS (ppm) FOR TOTAL LEAD FOR 1401 GRAND AVENUE, SAN LEANDRO

- [1] COMPOSITE SAMPLE
- [2] REPORTING LIMIT

APPENDIX A PERMITS AND RECEIPTS

BUSINESS LICENSE

CITY OF SAN LEANDRO 835 EAST 14th STREET SAN LEANDRO, CALIFORNIA 94577

BUSINESS NAME

BERNABE & BRINKER INC LOCATED AT

TYPE OF BUSINESS 2240 WOOD ST CONTRACTOR

MAIL ADDRESS

BERNABÉ & BRINKER INC 2240 WOOD ST OAKLAND, CA 94607

FINANCE OFFICE OFFICE HRS. MON-FRI 8:30-5:00 (510) 577-3381, 577-3378, 577-3392

1997

Expires Dec. 31

GROUP	BUSINESS LICENSE NUMBER
111	12404

FINANCE DIRECTOR

BUSINESS LICENSE INFORMATION:

- This Form Is your San Leandro business license.
- It is not required that this license be posted. However, upon request, a business owner or agent shall display the business license to a City officer or agent of the City or any customer.
- Change of ownership or address will require that a new business license application be completed.
- A separate license must be obtained for every location at which any portion of the business is conducted.
- It is unlawful to distribute or circulate advertising matter without having obtained a permit to do so.
- This license is effective for the calendar year, and shall expire on December 31, of the year issued.
- IF YOU DISCONTINUE DOING BUSINESS IN SAN LEANDRO, you must notify the Finance Office in writing to officially close your license.
- The City is committed to outstanding service in support of the business community. For information or assistance, call the Finance Department at 577-3381, 577-3378 or 577-3392.



CITY OF SAN LEANDRO 835 EAST 14th STREET · SAN LEANDRO, CALIFORNIA 94577

RECEIPT NO.

50568

ACCOUNT NO.

Received From MANMOHAN S. CHOPRA	Date 4-11 19 97
Address 4216 WARBLER UDP, FREMONT CA	9 4555
FOR GRADING PERULT	
CN 10948 — \$ 900 —	RECEIVED
3311 — # 50 —	APR 11 1997
# 950 —	ENGGZ IRANS
Ву	pengur
MOORE BUSINESS FORMS, INC IA	NOTIVALID UNTIL RECEIPTED BY CASHIER

1 FORM 025

CITY OF SAN LEANDRO ENGINEERING AND TRANSPORTATION DEPARTMENT 835 EAST 14th STREET SAN LEANDRO, CA 94577 (510) 577-3428

EXCAVATION/GRADING PERMIT

Permit Num.: EAG97007

Project Address: 1401 GRAND AV

Issued: 04/14/97 Assess. Parcel #: To Expire: 04/14/97

CN: 10948

Job Description: COAST GAS & MINI MART

REP UNDRGRD TANKS/NEW PIPING & DISPENSRS

Applicant: MANMOHAN S. CHOPRA Address : 4216 WARBLER LOOP

Owner :

FREMONT, CA 94555

Address:

Phone : 510 790-9252

Phone :

List of Resp'ble Engr's:

DESIGN ENGINEER (A): BERNABE AND BRINKER INC ENG'R FOR GRADING (B): BERNABE AND BRINKER INC

ENG'R FOR INSP/TEST (C):

Anticipated Start Date: 04-18-97 Anticipated Compl. Date: 08-38-97

Engineering Inspector : KEN HAMNER Inspector's Phone No.: (510) 577-3304

Fee description	Units	Fee/Unit	Ext fee Data
PLAN CHECK AND INSPECTION DEPOSIT HOURS REQ'D TO REVIEW (CN 1048): PERMIT ISSUANCE FEE (ACC'T #3311):	12.00	75.00	900.00 50.00
TOTAL GRADING PERMIT FEES:			950.00

Desc/date Act Inspector Comments

CLEAR AND GRUB

** No Entries **

ROUGH GRADING

** No Entries **

950.00 Total Payed: Credits .00 Adiustments: .00 BANANCE DUE: .00 Date:

Applicant Signature:

Issued for City by

Date:

Page 1 Of 2

CITY OF SAN LEANDRO ENGINEERING AND TRANSPORTATION DEPARTMENT 835 EAST 14th STREET SAN LEANDRO, CA 94577 (510) 577-3428

EXCAVATION/GRADING PERMIT

Permit Num.: EAG97007

Project Address: 1401 GRAND AV

Issued: 04/14/97

(Continued)

Desc/date

Act Inspector Comments

COMPACTION

** No Entries **

EROSION CONTROL IN PLACE

** No Entries **

FINISH GRADING

** No Entries **

GRADING COMPLETED

** No Entries **

Comments:

DESCRIPTION OF WORK:

REMOVED AND REPLACE 12,000 GALS. AND 8,000 GALS. FUEL TANKS

PIPING AND APPURTENANCES.

THE FOLLOWING EROSION AND SEDIMENT CONTROL MEASURES SHALL BE

INSTALLED PRIOR TO BEGINNING CONSTRUCTION AND SHALL BE

MAINTAINED THROUGHOUT THE COURSE OF WORK:

1. ALL CATCH BASINS WITHIN THE WORK AREA SHALL BE PROTECTED WITH HAY BALES, FILTER FABRIC OR FALSE BOTTOMS TO PREVENT SILT AND DEBRIS FROM ENTERING THE ON-SITE AND OFF-SITE STORM DRAIN SYSTEM.

2. CONTRACTOR SHALL PREVENT ANY DIRT, MUD OR DEBRIS FROM BEING TRACKED ONTO FAIRWAY GRAND AVENUE FROM THE GRADING AND CONSTRUCTION OPERATIONS PERMITTED HEREUNDER.



BAY AREA AIR QUALITY MANAGEMENT DISTRICT

March 13, 1997

ALAMEDA COUNTY Scott Haggerty Greg Harper (Vice-Chairperson) Mary King Ben C. Tarver

CONTRA COSTA COUNTY Joseph Canciernilla Paul L. Cooper Gayle Uilkerna

MARIN COUNTY Harold C. Brown, Jr.

> NAPA COUNTY Vince Ferriole

SAN FRANCISCO COUNTY Sugan Leaf Mabel Teng

SAN MATEO COUNTY Jerry Hill Michael D. Nevin (Secretary)

SANTA CLARA COUNTY Randy Atteway James T. Beall, Jr. Trixie Johnson Gillan Moren

> SOLANO COUNTY William Carroll

SONOMA COUNTY Jim Harberson (Chahperson) Petricia Hiligoss

Elien Garvey Air Pollution Control Officer Coast Gas & Mini Mart c/o Bernabe and Brinker, Inc. 2240 Wood Street Oakland, CA, 94607

Attention: Ernesto F. Bernabe, Jr.

Application Number: 24853
BAAQMD GDF Number: 9070
Equipment Location:
1401 Grand Ave.
San Leandro, CA

Dear Applicant:

Your application for an Authority to Construct and/or Permit to Operate the following equipment modification:

Remove & Replace Tanks, Piping, and Dispensers

has been assigned the above application number and is currently incomplete.

In order to complete our evaluation, we need the following:

- 1. Submit three (3) year historical throughput,
- 2. Is this station within 1000 ft. of a school?

Please submit the above items within 90 days or the application will be cancelled. Your application will be acted upon within 21 days of receipt of the above items. Construction or operation of equipment without an Authority to Construct or Permit to Operate will result in appropriate enforcement action.

Under the California Public Records Act, all information in your permit application will be considered a matter of public record and may be disclosed to a third party. If you wish to keep certain items separate as specified in Regulation 2 Rule 1 Section 202.7, please circle those items in your submittals, write "confidential" at the top of the page and append a written explanation for your confidentiality request.

Please include your application number with any correspondence with the District. If you have any further questions, please call me at (415) 749-4723.

Very truly yours,

Randy Clayton

Air Quality Technician II

RSC:rsc

PURCHASE ORDER NO. DATE DELIVERY NUMBER BY ACCEPTING THIS ORDER, CUSTOMER AGREES TO ALL OF THE TERMS AND CONDITIONS Carbonic SET FORTH HEREIN, INCLUDING THOSE PRINTED ON THE REVERSE SIDE NAME ACCEPTED BY: SHIPPED TO SOLID 21 HALF SLICES PELLETS WET ICE W UNIT TES DESCRIPTION " AIRPORT CODE DRY ICE POUNDS ORM-A UN 1845

DRY ICE ORM-A UN1845

CUSTOMER IS AWARE THAT DRY ICE IS A HAZARDOUS MATERIAL AND ASSUMES ALL LIABILITY ASSOCIATED WITH THE DISTRIBUTION AND USE OF THIS DRY ICE.

DO NOT PUT IN STOPPERED OR CLOSED CONTAINERS - AN EXPLOSION COULD OCCUR CAUSING SEVERE INJURY.

DO NOT HANDLE WITH BARE HANDS. CONTACT WITH BARE SKIN MAY CAUSE SEVERE BURNS OR FROSTBITE. ALWAYS USE HEAVY GLOVES OR TONGS.

LIBERATES HEAVY CO2 GAS WHICH COULD CAUSE SUFFOCATION IN AN ENCLOSED AREA SUCH AS A CAR OR SMALL ROOM.

DO NOT ALLOW ACCESS TO MINORS OR ANY ONE NOT FAMILIAR WITH THE HAZARDS ASSOCIATED WITH THE USE OF DRY ICE.

MATERIAL DATA SHEET ON REQUEST.

S O T LO D

midulcion Day Milyas Formerly: Middleton Welders Supply Co. & Airco Gas & Gear, No. California

P.O. Box 1675 San Leandro, CA 94577-0397 (510) 297-5900 FAX (510) 352-0154

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04	1825 Arnold Indust. Way Concord, CA 94520 1510825-8822
05	123 Bellem Blvd San Relact, CA 94901 (415)459-5080

Napa CA 94558 (707)252-2211 1707/202-2211 1920 Piner Rd Sania Rosa, CA 95403 (7077545-3535 1592 Doolitile Drive San Leandro, CA 94577 (510)297-5959 07

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6849 Dublin Blvd Dublin, CA 94568 (510)828 2071

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Bay Airgas, Inc.

dba: Middleton Bay Airgas American Welding Supply **REMIT TO:**

P.O. Box 1675 San Leandro, CA 94577-0397 (510) 297-5900 FAX (510) 352-0154

LOAD IN EXCESS OF	1000 LBS.	REQUIRES	PLACARDS:
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Your order was processed

DISTRIBUTION-S/L, 1588 Doolittle Drive, San Leandro, CA 94577, ACC'T REP-DIANE SPERCER 1-510 297-5942

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1000100100107013 ORDER DATE: 5/04/7/

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ATT: HARDLE

TAKER BY: JULIEB

NEWARK

INVOICE #

CA 94560 DATE

LOC / TERR

SHIPPED VIA

CUSTOMER P.O. NUMBER

11353

USTOMER #

07913

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ument constitutes a contract by and between seller and buyer and is subject to all the conditions on the front and reverse side for finance charge, limitations of warranty, rental for use of cylinders, liability for lost goods, indemnity, limitations for damages, and other matters. Read all such terms carefully as signature constitutes agreement thereto. ACCEPTED AND AGREED BY THE INDERSIGNED THE LYCEPTED AND AGREED BY THE LYCEPTED BY THE LYCPTED BY THE LYCPTED BY THE LYC

EMERGENCIES ONLY (FIRE, LEAK, SPILL)

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and re in proper condition for transportation according to the applicable regulations of the Department of Transportation.

SHIPPING ORDER - CUSTOMER COPY

1-800-424-9300

APPENDIX B DISPOSAL MANIFESTS

Lutrel TRUCKING, INC.

6315 SNOW ROAD BAKERSFIELD, CALIFORNIA 93308

Phone (805) 399-0246 • FAX (805) 399-0311

NON-HAZARDOUS MATERIALS DATA FORM

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Lutrel TRUCKING, INC.

6315 SNOW ROAD BAKERSFIELD, CALIFORNIA 93308

Phone (805) 399-0246 • FAX (805) 399-0311

NON-HAZARDOUS MATERIALS DATA FORM

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Lutrel TRUCKING, INC. 6315 SNOW ROAD BAKERSFIELD, CALIFORNIA 93308

Phone (805) 399-0246 • FAX (805) 399-0311

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6315 SNOW ROAD BAKERSFIELD, CALIFORNIA 93308

Phone (805) 399-0246 • FAX (805) 399-0311

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6315 SNOW ROAD BAKERSFIELD, CALIFORNIA 93308

Phone (805) 399-0246 • FAX (805) 399-0311

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6315 SNOW ROAD BAKERSFIELD, CALIFORNIA 93308

Phone (805) 399-0246 • FAX (805) 399-0311

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6315 SNOW ROAD BAKERSFIELD, CALIFORNIA 93308

Phone (805) 399-0246 • FAX (805) 399-0311

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	CITY, STATE, ZIP 4011 -10110 (110 (11577) PHONE NO 11 11 11 11 11
TOR	CONTAINERS: No VOLUME WEIGHT
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6315 SNOW ROAD BAKERSFIELD, CALIFORNIA 93308

Phone (805) 399-0246 • FAX (805) 399-0311

	mue Manmahan (hopia /contiens Minimitet
	ADDRESS 1901 OTATO FIDE
	CITY, SPATE, ZIP XLM / CUNCIO, A 44577 PHONE NO AC 1697
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ATC	CONTAINERS: No. VOLUME VOLUME WEIGHT
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6315 SNOW ROAD BAKERSFIELD, CALIFORNIA 93308

Phone (805) 399-0246 • FAX (805) 399-0311

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	CITY, STATE, ZIP CON (FCI KLTO, (A GC 1577 PHONE NO STO, FIC 9) SA
TOR	CONTAINERS: No
BE COMPLETED BY GENERATOR	TYPE: TANK DUMP DRUMS CARTONS OTHER DESCRIPTION COMPONENTS OF WASTE PPM COMPONENTS OF WASTE PPM ADVIOLA + 3398 EPASILE DHAD (\$3500504)
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TRANSPORTER	NAME LUTIF TOUCKING TOCO ADDRESS (CO) 10 INCLU + CCICL SERVICE ORDER NO. GITY, STATE ZIP 10 (CO) 10 INCLU + CCICL SERVICE ORDER NO. PHONE NO. DICH (CO) 10 INCLU + CCICL SERVICE ORDER NO. PHONE NO
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6315 SNOW ROAD BAKERSFIELD, CALIFORNIA 93308





Phone (805) 399-0246 • FAX (805) 399-0311

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	ADDRESS	-1(11)	1.1.	
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ATOR	CONTAINERS: No	- 1	VOLUME	10 1/15 WEIGHT
GENERATOR	TYPE: TANK DUMP	K □ DRUM	11.2	☐ OTHER
BY	DESCRIPTION	PPM	GE)	COMPONENTS OF WASTE PPM S
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	100% NON-HAZARDOUS		O OR PRINTED FULL NA	DATE DATE
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Œ	NAME	1000	14 1/1	1/15
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6315 SNOW ROAD BAKERSFIELD, CALIFORNIA 93308

Saturday 12:45

Phone (805) 399-0246 • FAX (805) 399-0311

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	CITY, STATE, ZIP (1) (401) (10 () 44577 PHONE NO (10.710 4) 5
NTOR	CONTAINERS: No
GENERATOR	TYPE: TANK DUMP DRUMS CARTONS OTHER
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욘	PROPERTIES: pH DISOLID
	THE GENERATOR CERTIFIES THAT THE MATERIALS DESCRIBED ARE 100% NON-HAZARDOUS TYPED OF PRINTED FULL NAME & SIGNATURE
TER	NAME [11-16] Trill(KI) Tri
TRANSPORTER	CITY, STATE, ZIP SERVICE ORDER NO.
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Lutrel TRUCKING, INC.

Phone (805) 399-0246 • FAX (805) 399-0311

ATOR	NAME MANMORY IN CHOPY II CUGS + (SQ) : MINIMINET . ADDRESS UN CONTAINERS: No. VOLUME 18 405 WEIGHT
BE COMPLETED BY GENERATOR	TYPE: TANK DUMP THUCK DRIMS CARTONS OTHER DESCRIPTION OF LOT LOT GENERATING PROCESS COMPONENTS OF WASTE PPM COMPONENTS OF WASTE PPM ADDICUL H 3318.
TO BE COM	PROPERTIES: pH SOLID LIQUID SLUDGE SLURRY OTHER HANDLING INSTRICTIONS: LIGHT STORE SLURRY OTHER FOR - MOHAN. (HORTH SATURDAY THE GENERATOR CERTIFIES THAT BRINKER - 6/11/97 TYPED OF PRINTED FULL, NAME & SIGNATURE DATE
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6315 SNOW ROAD BAKERSFIELD, CALIFORNIA 93308

Phone (805) 399-0246 • FAX (805) 399-0311

	NON HAZARDOGO WAYZINAZO ZAWA E GERM
ATOR	NAME Man Monan Chopya (Cost (Sas & Min) / Varket ADDRESS JOLO CICULA FLE CITY. STATE, ZIP MONE NO. 1 (MO 935) CONTAINERS: No. VOLUME WEIGHT
BE COMPLETED BY GENERATOR	TYPE: TANK DUMP DRUMS CARTONS OTHER DESCRIPTION COMPONENTS OF WASTE PPM COMPONENTS OF WASTE PPM ADJUGACI 11 3 3518 LEVA S. 14 . 1 . 1 . 1 . 1 . 1 . 1 . 1 . 1 . 1
TO BE CC	PROPERTIES: pH DISQUID LIQUID SLUDGE SLURRY OTHER HANDLING INSTRUCTIONS: (1 / C / C / C / C / C / C / C / C / C /
TRANSPORTER	NAME 1114 VIII (KIIII) 111 SERVICE ORDER NO. ADDRESS GOID NICOUT CUCL SERVICE ORDER NO. CITY, STATE ZIP ZI KEYSFIELD (A 43308 PICK UP DATE PHONE NO. 210, 634-6374 TYPED OP PRINTED FULL NAME & SIGNATURE DATE
TSD FACILITY	NAME BESCHOLL DISPOSAL METHOD ADDRESS (LOCAL DE A 45687. PHONE NO. 179ED OR PRINTED FULL NAME & SIGNATURE DISPOSAL METHOD LANDFILL OTHER TYPED OR PRINTED FULL NAME & SIGNATURE DATE
	TRAMS S B RT/CD HWDF NONE DISCREPANCY

6315 SNOW ROAD BAKERSFIELD, CALIFORNIA 93308 11:47AN SATOK DAY 3794

Phone (805) 399-0246 • FAX (805) 399-0311

ATOR	NAME MINICIAN (MC) (UG) COS MINISTRICTED ADDRESS 1: 10 10 (C)
PLETED BY GENERATOR	TYPE: TANK DUMP THUCK DRUMS CARTONS OTHER DESCRIPTION GENERATING PROCESS COMPONENTS OF WASTE PPM COMPONENTS OF WASTE PPM 2
TO BE COMPLETED	3 7
	THE GENERATOR CERTIFIES THAT THE MATERIALS DESCRIBED ARE 100% NON-HAZARDOUS TYPED OR PRINTED FULL NAME & SIGNATURE
TRANSPORTER	NAME LUTIE TRUCKING INC. ADDRESS (1) DICK RECICL SERVICE ORDER NO. CITY: STATE ZIP DELLES FIELD, A 13308 PICK UP DATE PHONE NO. DICK (1341-1374)
	TRUCK, UNIT, I.D. NO. TYPED OF PRINTED FULL NAME & SIGNATURE DATE
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	TRANS S B HWDF NONE DISCREPANCY
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6315 SNOW ROAD BAKERSFIELD, CALIFORNIA 93308 SATURDAY HER: 12:00 3783

Phone (805) 399-0246 • FAX (805) 399-0311

	Manmohan Chopral Coast Gas & Mini Market.
	ADDRESS 1410 GYANA FIVE!
	CITY STATE ZIP SKIN (PUNCITO (A 911577, PHONE NO 2/0 790932
TOR	CONTAINERS: No VOLUME VOLUME
TO BE COMPLETED BY GENERATOR	TYPE: TANK DUMP THUCK DRIMS CARTONS OTHER DESCRIPTION OF LIQUID SCHOOL OTHER COMPONENTS OF WASTE PPM
ANSPORTER	NAME LUTIEL TRUCKING TINC. ADDRESS (315 SHOW FOOD SERVICE ORDER NO
TRA	PHONE NO. 510 (37) (37)
-	15 05-14-7 57016 HENCEK POLICE 6-14-71
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	NAME DG J (())() DISPOSAL METHOD
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TSD FACILITY	17 7:151-3776.
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6315 SNOW ROAD BAKERSFIELD, CALIFORNIA 93308

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Phone (805) 399-0246 • FAX (805) 399-0311

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		NON-HAZARDOUS MATERIALS DATA FORM
	TO BE COMPLETED BY GENERATOR	ADDRESS CITY, STATE, ZIP CONTAINERS: No VOLUME VOLUME WEIGHT TYPE: TANK THUCK DRIMS CARTONS OTHER DESCRIPTION COMPONENTS OF WASTE PPM COMPONENTS OF WASTE PPM PROPERTIES: PM DISOLID LIQUID SLUDGE SLURRY OTHER THE GENERATOR CERTIFIES THAT THE MATERIALS DESCRIBED ARE 100% NON-HAZARDOUS TYPED OR PRINTED FULL NAME & BIGHATURE DATE
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	TSD FACILITY	NAME BESS GILLOTH ROCK DISPOSAL METHOD ADDRESS DISPOSAL METHOD CITY, STATE, ZIP QCQ VILLE A 70087 PHONE NO. 151-357(0.
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TRANS

Lutrel trucking, inc.

6315 SNOW ROAD BAKERSFIELD, CALIFORNIA 93308 11:30 AM

Phone (805) 399-0246 • FAX (805) 399-0311

	manmohan Chopra/Coast Gas	& Mini Manket
	ADDRESS LIDI GYANA AUC.	
	CITY. STATE ZIP San (Parxlyo, (A 94577)	PHONE NO 510 790-9252
ENERATOR	CONTAINERS: No. VOLUME 1814	WEIGHT
ER.A	TYPE: TANK THUCK DORUMS CARTONS OTHER	
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≿	ADDRESS (1420 101 KCOC)	LANDFILL OTHER
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TSD FACILITY	PHONE NO. 707-1151-3076.	g" ×
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	TRANS S B RT/CD HWDF NONE DISCREPANCY	
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6315 SNOW ROAD BAKERSFIELD, CALIFORNIA 93308

Phone (805) 399-0246 • FAX (805) 399-0311

GENERATOR	NAME CONTAINERS: No. DUMP DRUMS CARTONS OTHER OTHER
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	THE MATERIALS DESCRIBED ARE 100% NON-HAZARDOUS
	TYPED OR PRINTED FULL NAME & SIGNATURE DATE
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	TRUCK UNIT, LD. NO. TYPED OR PRINTED FULL NAME & SIGNATURE
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6315 SNOW ROAD BAKERSFIELD, CALIFORNIA 93308

Phone (805) 399-0246 • FAX (805) 399-0311

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	TUDI (- Vival Die.
	ADDRESS TO
	CITY STATE ZIP 3617 (4611610, A 44577) PHONE NO 10,796 4053
07	15 46.
ENERATOR	CONTAINERS: No
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<u> </u>	TYPE: TANK DUMP DRUMS CARTONS OTHER
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6315 SNOW ROAD BAKERSFIELD, CALIFORNIA 93308

Phone (805) 399-0246 • FAX (805) 399-0311

NON-HAZARDOUS MATERIALS DATA FORM

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	HOIT TIMEATIDOGO MATERIALO DATAT CTITO
тов	NAME MUNMOHAN CHUPTAKOG + GUSE MINIMUKE ADDRESS 140 GYAYA AVE. CITY, STATE, ZIP SCAN LEGINDO (A 94577 PHONE NO 516, 790, 905- CONTAINERS: No. VOLUME 8 YOS - WEIGHT
BE COMPLETED BY GENERATOR	TYPE: TANK THUCK DANMS CARTONS OTHER DESCRIPTION OF WASTE PPM COMPONENTS OF WASTE PPM COMPONENTS OF WASTE PPM COMPONENTS OF WASTE PPM COMPONENTS OF WASTE PPM COMPONENTS OF WASTE PPM COMPONENTS OF WASTE PPM COMPONENTS OF WASTE PPM COMPONENTS OF WASTE PPM COMPONENTS OF WASTE PPM COMPONENTS OF WASTE PPM
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TRANSPORTER	NAME UTE TYUCK ING INC. ADDRESS (0315 DOID RODD SERVICE ORDER NO
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i di	GEN

BAKERSFIELD, CALIFORNIA 93308

TRUCKING, INC.

Phone (805) 399-0246 • FAX (805) 399-0311

	NAME Mannolan (hopra/cogs+(36>8 Mini Market) ADDRESS 1401 Grand Ave CITY, STATE ZIP IN (4916) (A 9457) PHONE NO. 210, 790 9.252
E	CONTAINERS: No VOLUME VOLUME VOLUME WEIGHT
TO BE COMPLETED BY GENERATOR	TYPE: TANK THUCK DUMP CARTONS CARTONS OTHER DESCRIPTION OF WASTE PPM COMPONENTS OF WASTE PPM COMPONENTS OF WASTE PPM COMPONENTS OF WASTE PPM ADVIOUS TO STORY THUCK COMPONENTS OF WASTE PPM COMPONENTS OF WASTE PPM COMPONENTS OF WASTE PPM COMPONENTS OF WASTE PPM ADVIOUS TO STORY
Œ	NAME LUTEL TRUCKING, IDC.
THC.	ADDRESS (1315) DILLO RICOL SERVICE OFIDER NO.
ANSPORTER	CITY, STATE ZIP Dakerstield (A 43308 PICK UP DATE 6-16-97
TRAN	PHONE NO. 510 (034-0374)
-	TRUCK UNIT, ID. NO. 442 JOHN DUCK DATE DATE
	BG T /mafill
	ADDRESS 6126 101 KCCCC
= =	CITY, STATE, ZIP (C(())) + (A 95687.
TSD FFACILITY	MIGNE NO. 767-451 3376.
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	BEN DITUNEW L A TONS
1	TRANS B B DISCREPANCY
	C/O

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6315 SNOW ROAD BAKERSFIELD, CALIFORNIA 93308

Phone (805) 399-0246 • FAX (805) 399-0311

	muel) annohan (Norral Cast Cast 1)	in in hangel
	ADDRESS / O O O O O O O O O O O O O O O O O O	W 768 4 1953
	CITY, STATE, ZIP YIN (+(1)C(T), (A 77)) PHONE N	216,742,9352
TOR	CONTAINERS: No VOLUME WEIGH	41
TO BE COMPLETED BY GENERATOR	TYPE: TANK DUMP THUCK DRUMS CARTONS OTHER DESCRIPTION COMPONENTS OF WASTE DPM COMPONENTS OF WASTE DESCRIPTION COMPONENTS OF WASTE	PPM N
	100% NON-HAZARDOUS	6/16/9'/_
TRANSPORTER	NAME NAME ADDRESS CITY, STATE, ZIP PHONE NO. 2013. (C.23) 374 (C.5)	2-00 NW
-	GENALD WICKULLOCH	6:16:57 DATE
		DISPOSAL METHOD
≧	ADDRESS LANDFILL	OTHER
3	CITY, STATE, ZIP U(C() / 1 + (+) 45(8/)	
TSD FACILITY	BLONE NO. 707-451-3377(1.	
15	TYPED OR PRINTED FULL NAME & SIGNATURE	DATE
	GEN OLD/NEW L A TONS	
	TRANS S B RT/CD HWDF NONE DISCREPANCY	7 \$
	C/O HWDF NONE DISCREPANCY	

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6001 SNOW ROAD.
BAKERSFIELD, CALIFORNIA 93312

TOR	NAME MANGOLAN (1005 005 005 1111) PROTECT ADDRESS 1401 (5 YAND FUR CITY, STATE ZIP CONTAINERS: No. VOLUME 18 105 WEIGHT
COMPLETED BY GENERATOR	TYPE: TANK DUMP THUCK DRUMS CARTONS OTHER DESCRIPTION COMPONENTS OF WASTE PPM COMPONENTS OF WASTE PPM S S S S S S S S S S S S S
TO BE COI	PROPERTIES: pHDISOLID
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	GEN OLD/NEW L A TONS TRANS S B RT/CD HWDF NONE DISCREPANCY

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Phone (805) 399-0246 • FAX (50-00-00)

ATOR	NAME) CONTAINERS: No VOLUME WEIGHT
COMPLETED BY GENERATOR	TYPE: TANK DUMP THUCK DRUMS CARTONS OTHER DESCRIPTION GENERATING PROCESS COMPONENTS OF WASTE PPM COMPONENTS OF WASTE PPM 2
TO BE CO	PROPERTIES: pH SOLID
TRANSPORTER	NAME ADDRESS SERVICE ORDER NO. CITY, STATE ZIP PHONE NO. TYPED OF PRINTED FULL NAME & SIGNATURE DATE
TSD FACILITY	NAME ADDRESS CITY, STATE, ZIP HIGHE NO TYPED OR PRINTED FULL NAME & SIGNATURE DISPOSAL METHOD LANDFILL OTHER DATE
	GEN OLD/NEW L A TONS TRANS S B RT/CD HWDF NONE DISCREPANCY

Phone (805) 399-0246 • FAX (805) 399-0311

	-t·			·				
	NAME		-COAST G	AS & MINI	MARKET			
	ADDRESS 1401 Grand	d Ave.	_					
	CITY, STATE, ZIP	RO ,CA.	94577			PHONE NO	,51 0 790-	-9252
ATOR		.,		VOLUME	S. TARDS	WEIGHT		
BY GENERATOR	TYPE: TANK TRUCK DESCRIPTION SOLUTION COMPONENTS OF WA	L- NO		CARTONS C			РРМ	Q ₀
COMPLETED	APPROVAL	# 2 TE	398 10# (AD 98	256364	/		
BE COM	3		-					
5	A CONTRACTOR AND A CONT	Sould	•	SLUDGE -		ER		
	THE GENERATOR CE THE MATERIALS DE	RTIFIES TH	AT AE	FUR -M.	MOHAN (KEK	HOPER	6/16	/91/ DATE
RTER	NAME LUTRE ADDRESS 63/5			CKING .		SERVICE OBDER N	0	2
NSPORTER	CITY, STATE, ZIP BAK	ERS #	iELO, C		808			
TRA	PHONE NO. 5/0-6		De	OP PRINTED FULL NAI	Je & SIGNATURE	mille	6:14	27 DATE
	NAME BAN		NO FIL	۷		DI	SPOSAL METHOD	
≥	ADDRESS 642	6.	HAY A	ROAD		X LANDFILL [OTHER	
5	COTY STATE ZIE V. AC	AVILL	E CA	.95681				
TSD FACILITY	PHONE NO. 707 -	45/-	3216					
S			TYPED	OR PRINTED FULL NA	ME & SIGNATURE			DATE
	GEN	OLD/NEW	L A	TONS	1			
	TRANS		S B		1			
	CIO		RT/GD	HWDF NONE	DISCREPANCY			

MONUAY TIME 130

3800

Phone (805) 399-0246 •

FAX (8050-300-03

		1	- 1	1 1 1		Come State	
	ADDRESS L	ohan	(hop	ralles		(1) (11.1.1) (b. 15.17)	
	CITY, STATE, ZIP	nill	welle	11 4 40	1571	PHONE NO Man Mark	<u> </u>
TOR	CONTAIN	ERS: No		VOLUME_	(Fark)	S WEIGHT	_
COMPLETED BY GENERATOR	TYPE: TANK TRUC DESCRIPTION COMPONENTS OF	71	DRUMS	CARTONS GEN	NERATING PROCESS.	ITS OF WASTE PPM	
TO BE COM	4				7	<u>. </u>	_
٠	PROPERTIES: pH	Soul	LIQUID	SLUDGE	SLURRY LI OT	intents	
	THE GENERATOR THE MATERIALS 100% NON-HAZARD	CERTIFIES TH DESCRIBED A OUS	قدا ا	FIN- M-	ME & SIGNATURE	6/16/17) DATE	_
TER	NAME ! ([-])	el 1	I MC	1-19.	1110.	SERVICE ORDER NO.	
TRANSPORTER	CITY, STATE, ZIP	Tris	GP.	11/19	3368	PICK UP DATE	
TRA	PHONE NO.	1/3/1	374	al Bran	` .	6/16/	T/
	TRUCK, UNIT, LD. NO.		TYPED	OR PRINTED FULL NA	ME & SIGNATURE	DÂTE	
	NAME_ 59	-> (MIVIA	1/1) DISPOSAL METHOD	
≽	ADDRESS	1 1 (2)	: V :	SCI:	-"1	LANDFILL OTHER	
=	CITY, STATE, ZIP						
TSD FFACILITY	Mione No.	7.5	15/7	07(_
5			TYPED	OR PRINTED FULL N	AME & SIGNATURE	DATE	
1	GEN	OLD/NEW	L A	TONS			
	TRANS		S B	HWDE NONE	DISCREPANCY		
1	C/Q		RT/CD	HWDF NONE	DISCREPANCY		

MONDAY TIME 064

3791

6315 SNOW ROAD
BAKERSFIELD, CALIFORNIA 93308

Phone (805) 399-0246 • FAX (805) 399-0311

	HOW THE ATTOOCH WATERWALD DATA TO THE
RATOR	CONTAINERS: No VOLUME SYSS WEIGHT
6	CITY, STATE, ZIP CONTAINERS: No. VOLUME SOUME WEIGHT TYPE: TANK DUMP DRUMS CARTONS OTHER DESCRIPTION CONTAINERS: No. OTHER
TO BE CON	THE GENERATOR CERTIFIES THAT THE MATERIALS DESCRIBED ARE 100% NON-HAZARDOUS FOR. M. MOHAN CHOPRA L.E. BRINKER 6/16/97
	NAME (CONTINUE TO THE TOTAL OF THE PICK UP DATE PHONE NO. 216 (CONTINUE TO THE PROPERTY OF THE
TSD FACILITY	NAME TO COLL DISPOSAL METHOD ADDRESS (COLL DISPOSAL METHOD LANDFILL OTHER
	GEN OLD/NEW L A TONS TRANS S B RT/CD HWDF NONE DISCREPANCY

TIME 1030

3479

Phone (805) 399-0246 • FAX (805) 399-0311

	COMPONENTS OF WASTE PPM COMPONENTS OF WASTE P
TO BE COMPLETED BY GENERATOR	ADDRESS CITY, STATE, ZIP CONTAINERS: No. VOLUME WEIGHT TYPE: TANK DUMP THUCK ORUMS CARTONS OTHER DESCRIPTION COMPONENTS OF WASTE PPM COMPONENTS OF WASTE PPM COMPONENTS OF WASTE PPM PROPERTIES: PH SOLID CIQUID SLUDGE SLURRY OTHER HANDLING INSTUCTIONS: THE GENERATOR CERTIFIES THAT THE MATERIALS DESCRIBED ARE FOR M. MOHAN CHOPRA
TRANSPORTER	NAME ADDRESS CITY, STATE, ZIP PHONE NO. 10 30 A), V PHONE NO. 10 30 A), V
TSD FACILITY	DISPOSAL METHOD ADDRESS CITY, STATE, ZIP PHONE NO. TYPED OR PRINTED FULL NAME & SIGNATURE DISPOSAL METHOD OTHER DATE

3494

Phone (805) 399-0246 • FAX (805) 399-0311

	MANMOHAN	CHOPRA	-COAST G	AS & MINI	MARKET			
ADDRESS SAN LEANDRO, CA. 94577 CONTAINERS: No. 1 VOLUME SANDES WEIGHT TYPE: TANK DOLLAR DOLLAR DOLLAR THUCK COMPONENTS OF WASTE PM DESCRIPTION SOLL ANN. HAZ COMPONENTS OF WASTE PM ADDRESS AN SITE ID # CAD 9856364 3. 4 298 5 PROPERTIES: PH DISOUD LIQUID SLUDGE SLURRY OTHER HANDLING INSTRUCTIONS: HARD HAT, GLASSES, GLOUPS, THE GENERATOR CERTIFIES THAT THE MATERIALS DESCRIBED ARE 100% NON-HAZARDOUS THE GENERATOR CERTIFIES THAT THE MATERIALS DESCRIBED ARE 100% NON-HAZARDOUS TOWN ROAD SERVICE ORDER NO SERVICE ORDER NO SERVICE ORDER NO TRUCK UNIT, ID NO. 1/1/1 TYPED OR PRINTED FULL NAME & SIGNATURE DATE NAME BY A LAND FILL OISPOSAL METHOD OISPOSAL METHOD								
. O	CITY, STATE, ZIP							
BE COMPLETED BY	DESCRIPTION SCOMPONENTS OF APPROVA FOA - S PROPERTIES: PH	WASTE # 2 /TE Sould HARO H CERTIFIES TH	N. HAZ 398 10# C	AD 98 SLUDGE ASSES, GI FOR -M., E. BRINA	SLURRY OTHER	R	PPM	
TRANSPORTER	CITY, STATE, ZIP BA	5- SN KERS # 634-0	OW A 1E10, (1314 De	ROAD A 933	108 Len	PICK UP DATE		92
TSD FACILITY	ADDRESS 64 CITY, STATE, ZIP V A PHONE NO. 707	L LA 26. CAVILL	ND FIL HAY A E, CA 3216	ROAD .95681				
	GEN	- OLD/NEW	S B	1,0110				
	TRANS	-	RT/CD	HWDF NONE	DISCREPANCY			
1	C/Q							

HANDLING INSTUCTIONS: THE GENERATOR CERTIFITHE MATERIALS DESCRIPTIONS NON-HAZARDOUS NAME ADDRESS CITY, STATE, ZIP PHONE NO. () () () () () () () () () () () () ()						
CITY, STATE, ZIP CONTAINERS: No. COMPONENTS OF WASTE PROPERTIES: PH. COMPONENTS OF WASTE COMPONENTS OF WASTE PROPERTIES: PH. COMPONENTS OF WASTE COMPONENTS OF WASTE PROPERTIES: PH. COMPONENTS OF WASTE PROPERTIES: PH. COMPONENTS OF WASTE PHONE NO. COMPONENTS OF WASTE COMP	·oic: 11. 952					
B	DESCRIPTION	2 1 - /	VOD I	17:	PHONE NO VOLUME WEIGHT GENERATING PROCESS COMPONENTS OF WASTE PPM B UDGE SLURRY OTHER WEIGHT DATE DATE DATE DISPOSAL METHOD LANDFILL OTHER DISPOSAL METHOD LANDFILL OTHER	ррм %
<u>я</u>	HANDLING INSTUCTIONS: THE GENERATOR THE MATERIALS	CERTIFIES TO DESCRIBED	1100	15,60	SPS ELLUF	
	NAME ADDRESS CITY, STATE, ZIP PHONE NO. (1)	16 1 1000 20 1 1	1 100	Kuri Hadaa Hadaa	SERVICE ORDER N	10
TSD FACILITY	ADDRESS	3 / 36. 1 -451	TYPE	O OR PRINTED FULL NA	LANDFILL	SPOSAL METHOD OTHER
	TRANS	OLD/NEW	S B	HWDF NONE	DISCREPANCY	2506

APPENDIX C

CERTIFIED LABORATORY REPORT AND CHAIN-OF-CUSTODY

P & D Env 4020 Panar	ironmental na Court		Client Projec Service Statio	ct ID: #0	055; Form		Date Sampled: 05/06/97 Date Received: 05/07/97						
Oakland, C	CA 94611	-	Client Contac	t: Paul Kir	g	1	Date Extracted: 05/07/97						
			Client P.O:			Date Analyz							
Gașolin	ne Range (C6-C s 5030, modified 80	12) Vola	etile Hydroca 20 or 602; Calife	rbons as G irnia RWQCI	asoline*, v 3 (SF Bay Re	vith Methy zion) methoc	i tert-Butyl GCFID(5030	Ether* &	BTEX*				
Lab ID	Client ID	Matrix		мтве	Benzene	Toluene	Ethylben- zene	Xylenes	% Rec. Surrogate				
76175	TP1-13.0	S	ND	ND	ND	ND	ND	ND	101				
76176	TP2-14.5	s	3400,b.j	ND< 3.3	1.3	120	100	590	101				
76177	TP3-12.5	S	8.7,b,a	1.4	0.024	0.014	0.074	0.17	97				
76178	TP4-16.0	s	4.5,b,a	5.5	0.076	0.009	0.19	0.055	102				
76179	TP5-14.0	s	790,a	41	2.2	3.9	20	130	101				
76180	TP6-7.0	S	170,a	ND< 0.2	0.90	8.4	3.5	20	104				
		<u> </u>											
		1						<u>;</u>					
							<u> </u>						
			!										
Reportin	g Limit unless	w	50 ug/L	5.0	0.5	0.5	0.5	0.5					
otherwi means	se stated; ND not detected reporting limit		1.0 mg/kg	0.05	0.005	0,005	0.005	0.005					

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

cluttered chromatogram; sample peak coelutes with surrogate peak

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant (aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; c) 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.

& D Enviro	nmental	Client Project ID	: #0055; Former Arco	Date Sampled: 05/06/97				
1020 Panama (Court	Service Station		Date Received	05/07/97			
Dakland, CA	94611	Client Contact; Pa	ul King	Date Extracted: 05/09/97 Date Analyzed: 05/09/97				
	1	Client P.O:						
Total Recover	able Petroleum Hy	drocarbons as Oil	& Grease (with Silica Gel cometry*	Clean-up) by S	canning IR Spec-			
PA method 418.	t or 9073; Standard Me							
Lab ID Client ID		Matrix	TRPH [†]		% Recovery Surrogate			
76180	TP6-7.0	S	2600					
			The state of the s					
	<u></u>							
~ -								
<u></u>			New York					
· · · · · · · · · · · · · · · · · · ·	<u> </u>							
		<u> </u>	•••	<u>,</u>				
	tula unlasa salasa	W	1.0 mg/L					
wise stated:	Reporting Limit unless other- wise stated; ND means not de- tected above the reporting limit		10 mg/kg		1			
i	les are reported in							

At the laboratory's discretion, one positive sample may be run by direct injection chromatography with FID detection. The following comments pertain to this GC result: a) gasoline-range compounds (C6-C12) are present; d) other b) diesel range compounds (C10-C23) are present; c) oil-range compounds (> C18) are present; d) other patterned solvent (?); e) isolated peaks; f) GC compounds are absent or insignificant relative to TRPH inferring that complex biologically derived molecules (lipids?) are the source of IR absorption; h) a lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~ 5 vol. % sediment.

P & D Environmental	Client Project ID): # 0055; Former Ar	co Date Samp	Date Sampled: 05/06/97 Date Received: 05/07/97				
4020 Panama Court	Service Station		Date Rece					
Oakland, CA 94611	Client Contact: Pa	ul King	Date Extra	Date Extracted: 05/08/97				
	Client P.O:		Date Anal	yzed: 05/08/97				
	Volatile	e Halocarbons						
EPA method 601 or 8010								
Lab ID	76180							
Client ID	TP6-7.0							
Matrix	sl	Concentrat	ion	<u></u>				
Compound	210	Concentar	1031					
Bromodichloromethane	ND ND							
Bromoform ^(b)	ND ND							
Bromomethane (c)	ND		···					
Carbon Tetrachloride ^(c)	ND ND							
Chlorobenzene	<u>ND</u>							
Chloroethane	ND ND							
2-Chloroethyl Viny l Ether (d)	ND							
Chloroform ^(c)	ND			- 				
Chloromethane	ND			<u> </u>				
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		<u> </u>					
trans 1,2-Dichloroethene	ND		·					
1,2-Dichloropropane	ND			_				
cis 1,3-Dichloropropene	ND							
trans 1,3-Dichloropropene	ND							
Methylene Chloride ⁽¹⁾	ND							
1.1.2.2-Tetrachloroethane	ND							
Tetrachloroethene	79							
1,1,1-Trichloroethane	26							
1,1,2-Trichloroethane	ND							
Trichloroethene	ND							
Trichlorofluoromethane	ND							
Vinyl Chloride (8)	ND							
% Recovery Surrogate	110							
Comments								
• water and vapor samples are reported	ما الموال من الموالية	seemples in neite and all TC	I P extracts in ur	/L.				

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.

DHS Certification No. 1644

Edward Hamilton, Lab Director

P & D Er	vironmenta!				055; Former	Arco	Date Sampl	ed: 05/06	/97
4020 Pan	ama Court	j	Service Static	n			Date Receiv	æd: 05/07	1/97
Oakland,	CA 94611	Ī	Client Contac	t: Paul Kin	g		Date Extrac	ted: 05/0	7/97
	•	Ī	Client P.O:				Date Analyz	zed: 05/08	1/97
EDA analysi	cal mathods 6010/20	n 7 219 2 [†]		LUFT M	tals			·=·=-	
Lab ID	Client ID	Client P.O: Date Analyzed: 05/08/97							
Lab ID Client ID Matrix Extraction Cadmium Chromium Lead Nickel Zuic Surrogat	101								
					<u></u>				
		1				· <u>-</u> .			
									1
		 	<u>!</u>						
						<u></u>			
Reporting	Limit unless other- ND means not de-	s	TTLC	0.5 mg/kg	0.5	3.0	2.0	1.0	
	the reporting limit	w	ፐነኒር	0.005 mg/L	0.005	0.005	0.05		-{
		<u> </u>	STLC,TCLP	0.01 mg/L	0.05	0.2	0.05	0.05	
Lead is an	es and sludge are rep alysed using EPA me tion methods 1311(T	thad 6010	(ICP)for soils,	STEC & TCL	.P extracts and r	nethod 2	39.2 (AA Furns		
* surrogate	diluted out of range;	N/A mean	ns surrogate not	applicable to	thic analysis				
A reporting l	imit raised due matr	ix interfer	ence						

i) liquid sample that contains greater than - 2 vol. % sediment; this sediment is extracted with the liquid, in accordance with EPA

DHS Certification No. 1644

methodologies and can significantly effect reported metal concentrations.

/// Edward Hamilton, Lab Director

CHROMALAB, INC.

Environmental Services (SDB)

May 20, 1997

Submission #: 9705172 page 2

MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: P-0055 ASS

Project#: 8599

Received: May 13, 1997

re: One sample for Semivolatile Organic Compounds (B/NAs) analysis,

continued.

Method: SW846 Method 8270A Nov 1990

Client Sample ID: TP6-7.0,76180

Sp1#: 131709

Matrix: SOIL

Extracted: May 14, 1997 Analyzed: May 15, 1997

DDAW LOUIS	Run#: 68	eca An	<i>lalyzed:</i> Maj	у тэ, тэз	7.7
Sampled: May 6, 1997	Kuuth: 00		BLANK	BLANK I	ILUTION
•		REPORTING			FACTOR
	result	LIMIT	result	SPIKE	LWCION
•		(ma/Ka)	(mg/Kg)	(%)	
ANALYTE	(mg/Ka)	0.10	N.D.		1
FLUORENE	N.D.	0.50	N.D.		1
A NITTOOANILINE	N.D.		N.D.	~ -	1
- APPRIVITA K-DINITROPHENOL	N.D.	0.50	N.D.		1
M_NTTPOSO+DT+N+PHENILMMLME	N.D.	0.10	N.D.		1
4-BROMOPHENYL PHENYL ETHER	N.D.	0.10	11.17.		1
HEXACHLOROBENZENE	N.D.	0.10	й.Ď.	40.4	ĩ
HEARCHDORODE TO DOTO	N.D.	0.50	N.D.	40.4	<u> </u>
PENTACHLOROPHENOL	N.D.	0.10	N.D.		1
PHENANTHRENE	N.D.	0.10	N.D.		7
ANTHRACENE	N.D.	2.0	n.D.		<u> </u>
DI-N-BUTYL PHTHALATE	N.D.	0.10	N.D.		<u> </u>
FLUORANTHENE	W.D.	0.10	M.D.	55.2	1
DVDENE	Ŋ.D.	ŏ.ŝŏ	N.D.		7
DITTUT BENZYI DHTHALATE	N.D.	0.20	N.D.	- 4	1
2 2'-DICHLOROBENZIDINK	N.D.		N.D.		1
DEMAC (2) ANTHRACKING	N.D.	0.10	Ñ.Ď.		1
BIS (2-ETHYLHEXYL) PHTHALATE	N.D.	0.50	N.D.		1
CHRYSENE	N.D.	0.10.	11.10.		1
DI-N-OCTYL PHTHALATE	N.D.	0.50	N.D.		1
DI-N-UCTIL FRINGUE	N.D.	0.10	N.D.		រិ
BENZO (B) FLUORANTHENE	N.D.	0.20	N.D.		î
Benzo (K) Fluoranthene	Ñ.Ď.	0.050	N.D.		†
DONGO / A I DVRKNE	77. 77.	0.20	N.D.		
TAMORNO (1 2 2 C.D) PYRENA	Ŋ.D.	0.20	N.D.		
DIRENZO (A. H) ANTHRACENE	N.D.		N.D.		1
DIBENZO (A, H) ANTHRACENE BENZO (G, H, I) PERYLENE	N.D.	0.20	N.D.		1
BENZOIC ACID	n.d.	0.50	64 > 4		

Michael Lee

Chemist

Chip Poalinelli Operations Manager

CHROMALAB, INC.

Environmental Services (SDB)

May 20, 1997

Submission #: 9705172

MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: P-0055 ASS

Received: May 13, 1997

Project#: 8599

re: One sample for Semivolatile Organic Compounds (B/NAs) analysis.
Method: SW846 Method 8270A Nov 1990

Client Sample ID: TP6-7.0,76180

Spl#: 131709 Sampled: May 6, 1997 Matrix: SOIL Run#: 6853 Extracted: May 14, 1997 Analyzed: May 15, 1997

BLANK DILUTION BLANK REPORTING SPIKE FACTOR RESULT LIMIT RESULT (mg/Kg) (ma/Ka) (mg/Kg) ANALYTE 58.8 0.10 N.D. PHENOL BIS (2-CHLOROETHYL) ETHER 2-CHLOROPHENOL N.D. N.D. ī 51.8 N.D. 0.10 0.10 N.D. 1,3-DICHLOROBENZENE N.D. 71.5 0.10 N.D. N.D. 1,4-DICHLOROBENZENE N.D. - -BÉNZYL ALCOHOL 1,2-DICHLOROBENZENE 0.20 --0.10 N.D. N.D. 0.10 N.D. 2-METHYLPHENOL --BIS (2-CHLOROISOPROPYL) ETHER 4-METHYLPHENOL 0.10 N.D. 0.20 N.D. N.D. 70.2 0.10 N.D. N-NITROSO-DI-N-PROPYLAMINE N.D. - -N.D. 0.10 HEXACHLOROETHANE M.D. 3.10 3.10 N.D. N.D. NITROBENZENE --N.D. N.D. ISOPHORONE N.D. 0.10 N.D. 3-NITROPHENOL --N.D. 0.10 2,4-DIMETHYLPHENOL N.D. N.D. --Bis (2-Chloroethoxy) methane 2,4-Dichlorophenol N.D. 0.10. ___ N.D. 0.10 N.D. 67.6 n.d. 1,2,4-TRICHLOROBENZENE NAPHTHALENE 0.10 N.D. o.īŏ -N.D. 0.60 0.20 0.10 0.20 N.D. N.D. 4-CHLOROANILINE N.D. HEXACHLOROBUTADIENE N.D. 67.3 N.D. N.D. 4-CHLORO-3-METHYLPHENOL - --N.D. 0.10 0.65 2-METHYLNAPHTHALENE N.D. 0.10 HEXACHLOROCYCLOPENTADIENE N.D. 1 --Ŋ.D. 0.10 N.D. 2,4,6-TRICHLOROPHENOL N.D. 0.10 2,4,5-TRICHLOROPHENOL N.D. N.D. 0.10 N.D. 2-CHLORONAPHTHALBNE N.D. 0.50 N.D. 2-NITROANTLINE N.D. 0.50 N.D. DIMETHYL PHTHALATE --N.D. 0.10 ACENAPHTHYLENE N.D. 0.10 N.D. 76.3 3-NITROANILINE N.D. Ŋ.D. ACENAPHTHENE N.D. 0.50 2,4-DINITROPHENOL N.D. 49.0 N.D. 0.50 N.D. 4-NITROPHENOL N.D. 0.10 N.D. DIBENZOFURAN 55.4 N.D. 0.10 2,4-DINITROTOLUENE N.D. 0.20 2,6-DINITROTOLUENE N.D. 0.50 N.D. DISTHYL PHTHALATE 4-CHLOROPHENYL PHENYL ETHER

P & D ENVIRONMENTAL A Division of Paul II. King, Inc. 4020 Panama Court Oakland, CA 94611 (510) 658-6916

CHAIN OF CUSTODY RECORD

SAMPLED BY: (PRI			URE)	undy,	Landon	andor 199			AWAL TSIEVE		1	~ / .	1.4/18.	/i	THE STATE OF THE S	X . /	REMA	IRKS	
SAMPLE NUMBER	DATE	TIME	TYPE	v. -	SAMPLE	LOCATIO	N	CONTAINERS	R	, @		01.50	38	14.5					•
TP1-/3.0	5/6/97		Soil				·	1	X	X			·		THE		nal Turn	. Ar	***
TP2 - 14.5	"		"					1	X	X					11	. 47	4	4	,
TP3-12.5	*		- 4		•			1_	X	X			\perp	\perp	111	.,,	ч		~
TP4-16.0	"		4					1	X	X	_		1	_	"	7	·· •	•	4
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P6-7.0	11		U					1	メ		X	<u> </u>	× I	4	("	L. 4.			4
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RELINQUISHED BY:	(SIGNATUR	(E)	DATE	TIME	RECEIVE	166	(SIGNATURE)				. # 6 3474		3	6	LAE	ORATO	RY:	·	
Muddle	dar.	•	17/57	1045		Th	• • •				07 C		253	6	\neg M	cCam	phell Ana	ey h	دسل
RELINQUISHED	(SIGNATU	RE)	DATE	TIME	RECEIVE	D ØY:	(SIGNATURE)		~					TAC	T: LAE	BORATO	DRY PHONE	RUS	181
BINL.			5/2.57	1225	1 / V/	de	Thura		E	d	Han	atth	کگو		(5	2 io)	718 -	162	٥
RELINQUISHED BY	(SIGNATU	RE)	DATE	TIME	RECEIVE	D FOR	EABORATOR MAI									REQUES	ST SHEET		·

P & D Env	ironmental		Client Proje Service Statio		055; Form	er Arco	Date Sample	ed: 05/06/9	17		
4020 Panar	na Court	`	SELVICE STATIC)fi			Date Receiv	ed: 05/07/	97		
Oakland, C	CA 94611	[c	Client Contac	ct: Paul Ki	ng	1	Date Extracted: 05/07/97				
		C	Client P.O:				Date Analyzed: 05/07/97				
Gasolin	e Range (C6-	C12) Vola	tile Hydroca 20 or 602; Calife	rbons as C	Gasoline*, v B (SF Bav Re	vith Methy gion) method	l tert-Butyl I GCFID(5030	Ether* &	BTEX*		
Lab ID	Client ID	Matrix	_	мтве	Benzene	Toluene	Ethylben-	Xylenes	% Rec. Surrogate		
76171	DP1-2.0	S	24,a	7.4	0.076	0.99	0.11	4.3	100		
76172	DP2-2.0	S	17,a	1.6	0.012	0.28	0.38	3.1	98		
76173	DP3-2.5	S	ND	0.12	ND	0.008	ND	0.026	101		
76174	DP4-3.0	S	2200,b,j	8.5	2.8	37	48	260	100		
				<u> </u>			 				
		_									
					-						
				ļ ———			<u> </u>				

Reporting Limit unless	w	50 ug/L	5.0	0.5	0.5	0.5	0.5	
otherwise stated; ND means not detected above the reporting limit	S	1.0 mg/kg	0.05	0.005	0.005	0.005	0.005	
* water and vapor samples	аге гер	orted in ug/L,	, soil and s	ludge samp	oles in mg/k	g, and all T	CLP extra	cts 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) stronglyaged 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.

					T	10/107			
P & D Enviro 4020 Panama		Client P Service S		0055; Former Arco					
	-				Date Received: 0				
Oakland, CA	94611	Client Co	ontact: Paul K	ing	Date Extracted: (05/07/97			
	<u> </u>	Client P.			Date Analyzed: 05/08/97				
EDA analytical v	nethods 6010/200.7, 239.2°	+	Lea	ď					
Lab ID	Client ID		Extraction	Lea	ad *	% Recovery Surrogate			
76171	DP1-2.0	s	TTLC	5	.9 ·	107			
76172	DP2-2.0	S	TTLC	6	.8	109			
76173	DP3-2.5	S	TTLC	3	.2	105			
76174	DP4-3.0	s	TTLC	1	6	105			
	·								
	it unless otherwise stated;	S	TTLC	3.0 (mg/kg				
	ot detected above the re- corting limit	w	TTLC	0.003	i mg/L				
			STLC,TCLP	0.2	mg/L				
* soil and sludge	e samples are reported in	mg/kg, and	l water samples a	nd all STLC & TCLP ext	racts in mg/L				
samples	sed using EPA method 6								
22	n methods 1311(TCLP),				C), 3050(solids,TTLC);	STLC from CA Title			
1	ited out of range; N/A me it raised due matrix interf		ate not applicable	e to this analysis					
i) liquid sampl	e that contains greater t	han ~ 2 vo	ol. % sediment;	this sediment is extracte	d with the liquid, in a	ccordance with EPA			
L	and can significantly effec	t reported	metal concentral	ions.	F. 171 171				
DHS Certifi	cation No. 1644			_//:	Edward Hami	lton, Lab Director			

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

QC REPORT FOR HYDROCARBON ANALYSES

Date: 05/06/97-05/07/97 Matrix: Soil

	Concent	ration	(mg/kg)		% Reco	very	
Analyte,	Sample (#74888)	MS	MSD	Amount Spiked	MS	MSD	RPD
TPH (gas)	0.000	1.989	1.921	2.03	98	95	3.5
Benzene	0.000	0.168	0.168	0.2	84	84	0.0
Toluene	0.000	0.174	0.174	0.2	87	87	0.0
Ethylbenzene	0.000	0.172	0.176	0.2	86	88	2.3
Xylenes	0.000	0.526	0.532	0.6	88	89	1.1
TPH (diesel)	0	305	308	300	102	103	0.7
TRPH	0.0	25.9	26.8	26	100	103	3.4

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

QC REPORT FOR HYDROCARBON ANALYSES

Date:

05/13/97

Matrix: Soil

	Concent	ration	(mg/kg)		% Reco	very	RPD
Analyte	Sample (#74886) 	MS	MSD	Amount Spiked	MS	MSD	KPD
TPH (gas)	0.000	2.210	2.069	2.03	109	102	6.6
Benzene	0.000	0.190	0.214	0.2	95 105	107 117	11.9 10.8
Toluene	0.000	0.210	0.234 0.218	0.2 0.2	103	109	6.6
Ethylbenzene Xylenes	0.000	0.620	0.654	0.6	103	109	5.3
TPH (diesel)	0	71	71	70	102	102	0.2
TRPH :	0.0	21.1	23.0	20.8	101	111	8.6

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

QC REPORT FOR ICP and/or AA METALS

Date: 05/13/97

Matrix: Soil

Extraction:

TTLC

	Concent	ration		ļ	% Reco	very	
Analyte	(mg	g/kg,mg/	L)	Amount			RPD
	Sample	MS	MSD	Spiked	MS	MSD	
Total Lead	0	4.973	4.933	5.0	99	99	0.8
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	A\N	N/A
Total Copper	N/A	N/A	N/A	N/A	N/A	N/A	n/A
STLC Lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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

P & D ENVIRONMENTAL

A Division of Paul H. King, Inc. 4020 Panama Court Oakland, CA 94611 (510) 658-6916

8622 xpaai@ Chain of custody record

PAGE ____ OF

PROJECT NUMBER: PROJECT NAME: 76319 Former Area Service Station 0055 NUMBER OF CONTAINERS 76320 SAMPLED BY: (PRINTED AND SIGNATURE) Ahmad Ghandour a 76321 SAMPLE LOCATION DATE TIME TYPE SAMPLE NUMBER Normal Turn Around Soil 5/10/97 TP7-15.0 4800 A 300 10 10 20 10 " TP8-17.0 TP9 - 17.5 TP10-16.5 1 11 11 TP12-12.0 11 60 3112 34 11 11 11 TP13 - 12,0 " 4 110 1100 TP14- 12.0 11 32 11 • TP15- 13.0 50 W 11 11 TP16 - 135 u 生月後 医黑红斑 的现在分词的 1/2 TP17 - 12.0 **VORS TORG THE DASTOTHER** 76323 76327 PRESENTINE 76328 CONTAINERS THEFT COLOR RECENT LAB RELINQUISHED BY: (SIGNATURE) DATE S112157 RECEIVED BY: (SIGNATURE) TIME McCampbell tralistical TOTAL NO. OF CONTAINERS 12:15 DATE TIME RECEIVED BY: (SIGNATURE) RELINDUISHED BY: (SIGNATURE) LABORATORY: CONTACT: LABORATORY PHONE NUMBER: 5/10/97 Editamilton (510) 798 - 1620 1.00 RECEIVED GOR LABORATORY BY:
(SIGNATURE) CHNY MULLING SAMPLE: ANALYSIS REQUEST SHEET DATE RELINQUISHED BY: (SIGNATURE) ATTACHED: (+)YES (X)NO REMARKS:

P & D ENVIRONMENTAL A Division of Paul H. King, Inc. 4026 Pavanna Court Oakland, CA 94611 (\$10) 658-6916

8621 xPd ais

CHAIN OF CUSTODY RECORD

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PROJECT NUMBER:		F	ROJECT >TYTY	. Arc	o Senice	. Station	1. 15	\$			1		3	//	w /	-		
SAMPLED BY: (PRI		SICNAT	URE)	elu	ntsla	LN	NUMBER OF CONTAINERS	AWAL YSION	16.00		4/8	8/2		P. C. S. L.		REI	IARKS	
SAMPLE NUMBER	BATE	BMIT	TYPE		SAMPLE LOC	ATION	SS	Į.		12	T X		3 /	£	OFF	hold 5	lis pag	6.
TP11 - 13.5	5/10/57		النج				4	X		X	X		1 1	LB	*	60		,
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RELINGUISHED BY:	SCHATURE	E) ₀	DATE	TIME	_	(SIGNATURE)	, Æ	<u> </u>	Tes :	-				i AB	CRATOR	¥:		. /
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RELINQUISHED BY:	(SICHATUR	E)	DATE	TIME	RECEIVED FO (SIGNATURE)	PENNYMU	BY:								EQUEST			٠.
•				•	REMARKS:			-		- 		. ,			· ·	·		

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

P&D Environmental	Client Project ID: #0055; Former	Date Sampled: 05/10/97
4020 Panama Court	Arco Service Station	Date Received: 05/12/97
Oakland, CA 94611	Client Contact: Paul King	Date Extracted: 05/12/97
	Client P.O:	Date Analyzed: 05/12-05/13/97

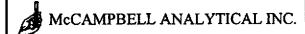
Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with Methyl tert-Butyl Ether* & BTEX*
EPA methods 5030, modified 8015, and 8020 or 602; California RWOCB (SF Bay Region) method GCFID(5030)

Lab ID	Client ID	Matrix	TPH(g) [†]	мтве	Benzene	Toluene	Ethylben- zene	Xylenes	% Recovery Surrogate
76329	DP5-5.5	s	4.8,b,d	0.30	0.012	0.13	0.064	0.49	101
76330	DP6-5.5	S	73,b,d	8.0	ND<0.02	0.14	0.11	3.2	100
					<u> </u>				
_									
		1							
-									
	g Limit unless se stated; ND	w	50 ug/L	5.0	0.5	0.5	0.5	0.5	
means no	t detected above porting limit	S	1.0 mg/kg	0.05	0.005	0.005	0.005	0.005	

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

^{*} cluttered chromatogram; sample peak coelutes with surrogate peak

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



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P&D Enviro		Client	t Project ID: #00 ce Station)55; Former Arco	Date Sampled: 05/10/97 Date Received: 05/12/97		
4020 Panam Oakland, CA			t Contact: Paul I	Cing	Date Extracted: 05	/12/97	
·		Client			Date Analyzed: 05	/13/97	
EPA analytical	methods 6010/200.7, 239	.2*	Lead	d*			
Lab ID	Client ID	Matrix	Extraction °	Lea	id*	% Recovery Surrogate	
76329	DP5-5.5	s	TTLC	3.	t .	99	
76330	DP6-5.5	s	TTLC	ī	I	97	
						1	
:							
<u> </u>	<u> </u>						
	<u></u>	S	TTLC	3.0 r	ng/kg		
stated; ND m	imit unless otherwise eans not detected above	w	TTLC	0.00.	5 mg/L		
the t	reporting limit		STLC,TCLP	0.2	mg/L	_	

^{*} soil and sludge samples are reported in mg/kg, wipe samples in ug/wipe, and water samples and all STLC / SPLP / TCLP extracts in mg/L *Lead is analysed using EPA method 6010 (ICP) for soils, sludges, STLC & TCLP extracts and method 239.2 (AA Furnace) for water samples

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

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

^{*} reporting limit raised due matrix interference

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

QC REPORT FOR HYDROCARBON ANALYSES

Date: 05/11/97-05/12/97

Matrix: Soil

	Concent	ration	(mg/kg)		% Reco	very	RPD
Analyte	Sample (#74886) 	MS	MSD	Amount Spiked	MS	MSD	RPD
TPH (gas)	0.000	2.154	2.167	2.03	106 95	107 96	0.6 1.0
Benzene Toluene	0.000 0.000 0.000	0.190 0.202 0.204	0.192 0.204 0.204	0.2	101	102 102	1.0
Ethylbenzene Xylenes	0.000	0.612	0.604	0.6	102	101	1.3
TPH (diesel)	0	71	71	70	102	102	0.2
TRPH (oil and grease)	N/A	N/A	N/A	A\n	n/a	n/A	N/A

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

QC REPORT FOR HYDROCARBON ANALYSES

Date: 05/13/97

Matrix: Soil

	Concent	ration	(mg/kg)		% Reco	very	
Analyte	Sample (#74886) 	MS	MSD	Amount Spiked	MS	MSD	RPD
TPH (gas) Benzene	0.000	2.210 0.190	2.069 0.214	2.03	109 95	102 107	6.6 11.9
Toluene Ethylbenzene Xylenes	0.000	0.210 0.204 0.620	0.234 0.218 0.654	0.2 0.2 0.6	105 102 103	117 109 109	10.8 6.6 5.3
TPH (diesel)	0	71	71	70	102	102	0.2
TRPH	0.0	21.1	23.0	20.8	101	111	8.6
(oil and grease)	<u> </u>			 	 		

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

QC REPORT FOR ICP and/or AA METALS

Date:

05/13/97

Matrix: Soil

Extraction: TTLC

	Concent				% Reco	very	
Analyte	(mg	g/kg,mg/	L)	Amount			RPD
	Sample	MS	MSD 	Spiked	MS	MSD	
Total Lead	0	4.973	4.933	5.0	99	99	0.8
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 Copper	N/A	N/A	N/A	N/A	N/A	N/A	N/A
STLC Lead	N/A	N/A	n/A	N/A	N/A	N/A	N/A

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

P & D ENVIRONMENTAL

A Division of Paul H. King, Inc. 4020 Panama Court Oakland, CA 94611 (510) 658-6916

8623xpd217

CHAIN OF CUSTODY RECORD

Service PROJECT NUMBER: PROJECT NAME: Former Arcot Station 0055 SAMPLED BY: (PRINTED AND SIGNATURE) REMARKS Ahmad Ghandon SAMPLE LOCATION SAMPLE NUMBER DATE TIME TYPE DP5-5.5 5/10/97 Soil Normal Turn Around How to His Challes 11 DP6 - 5.5 VOAS I DAG I METALSTOTHER PRISTRYATIVE 20 to 20 to 3 **GOOD CONDITION APHROPRIATE** HEALISPACE ARSEN TOTAL NO. OF SAMPLES ... RELINQUISHED BY: (SIGNATURE) RECEIVED BY: (SIGNATURE) DATE TIME LABORATORY: 11297 12:15 McCampbell Analytical TOTAL NO. OF CONTAINERS (THIS SHIPMENT) RELINQUISHED BY: (SIGNATURE) DATE TIME RECEIVED BY: (SIGNATURE) LABORATORY CONTACT: LABORATORY PHONE NUMBER: 5/12/97 Edithallon (510) 798-1620 1:06 SAMPLE ANALYSIS REQUEST SHEET
ATTACHED: () YES () NO RELINQUISHED BY: (SIGNATURE) DATE TIME REMARKS:

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

P&D Environmental	Client Project ID: #0055; Former	Date Sampled: 05/10/97	
4020 Panama Court	Arco Service Station	Date Received: 05/12/97	
Oakland, CA 94611	Client Contact: Paul King	Date Extracted: 05/12/97	
	Client P.O:	Date Analyzed: 05/12-05/13/97	

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

EPA metho	EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030)									
Lab ID	Client ID	Matrix	TPH(g) [†]	мтве	Benzene	Toluene	Ethylben- zenc	Xylenes	% Recovery Surrogate	
76331	Comp C	S	550,b	ND<3.5	ND<0.12	2.3	4.9	41	96	
76332	Comp D	S	3200,b,j	4.4	0.63	56	47	330	97	
76333	Comp E	S	720,b	ND<2.5	ND<0.10	0.72	2.2	34	98	
76334	Comp F	S	630,b	ND<4.4	ND<0.15	0.78	2.0	37	99	
76335	Comp G	S	410,b	ND<0.92	ND <0.05	0.52	1.1	15	98	
76336	Comp H	s	620,b,j	2.1	ND<0.05	1.2	3.6	36	98	
76337	Comp I	S	1100,b	ND<3.5	ND<0.13	1.4	5.5	66	97	
76338	Comp J	s	400,b	ND<1.4	ND<0.073	0.44	1.0	15	99	
								<u> </u>		
	ng Limit unless	w	50 ug/L	5.0	0.5	0.5	0.5	0.5		
means no	nt detected above porting limit	S	1.0 mg/kg	0.05	0.005	0.005	0.005	0.005		

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

^{*} cluttered chromatogram; sample peak coclutes 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.

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

	Loodx		
	Client P.O:	Date Analyzed: 05/13-05/14/97	
Oakland, CA 94611	Client Contact: Paul King	Date Extracted: 05/12/97	
4020 Panama Court	Client Project ID: #0055; Former Arco Service Station	Date Received: 05/12/97	
P&D Environmental	CI' AD : AD HOOSE FA WAR A TO	Date Sampled: 05/10/97	

D4 analystical -	nethods 6010/200.7, 23	n 2+	Lead	*	
Lab ID	Client ID	Matrix	Extraction *	Lead*	% Recovery Surrogate
76331	Comp C	S	TTLC	23 .	87
76332	Comp D	S	TTLC	22	96
76333	Comp E	s	TTLC	50	100
76334	Comp F	s	TTLC	26	104
76335	Comp G	s	TTLC	33	105
76336	Comp H	S	TTLC	51	104
76337	Comp I	S	TTLC	39	105
76338	Comp J	S	TTLC	52	103
		S	TTLC	3.0 mg/kg	
stated; ND mea	nit unless otherwise ns not detected above	w	TTLC	0.005 mg/L	
the rep	porting limit	_	STLC,TCLP	0.2 mg/L	

^{*} soil and sludge samples are reported in mg/kg, wipe samples in ug/wipe, and water samples and all STLC / SPLP / TCLP extracts in mg/L
*Lead is analysed using EPA method 6010 (ICP)for soils, sludges, STLC & TCLP extracts and method 239.2 (AA Furnace) for water samples

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

^{*} surrogate diluted out of range; N/A means surrogate not applicable to this analysis

^{*} reporting limit raised due matrix interference

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

QC REPORT FOR HYDROCARBON ANALYSES

Date: 05/11/97-05/12/97 Matrix: Soil

	Concent	ration	(mg/kg)		% Reco	very	
Analyte	Sample (#74886)	MS	MSD	Amount Spiked	 MS	MSD	RPD
TPH (gas)	0.000	2.154	2.167	 2.03	106	107	0.6
len (gas) Benzene	0.000	0.190	0.192	0.2	95	96	1.0
Toluene	0.000	0.202	0.204	0.2	101	102	1.0
Ethylbenzene	0.000	0.204	0.204	0.2	102	102	0.0
Xylenes	0.000	0.612	0.604	0.6	102 	101	1.3
TPH (diesel)	0	71	71	70	102	102	0.2
TRPH .	N/A	N/A	n/A	 N/A	N/A	N/A	N/A

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

QC REPORT FOR HYDROCARBON ANALYSES

Date: 05/13/97

Matrix: Soil

	Concent	ration	(mg/kg)		% Reco	very	
Analyte	Sample			Amount			RPD
	(#74886) 	MS	MSD	Spiked 	MS	MSD	
mpu ()	0.000	2.210	2.069	2.03	109	102	6.6
TPH (gas)	0.000	0.190	0.214	0.2	95	107	11.9
Benzene		0.190	0.214	0.2	105	117	10.8
Toluene	0.000						
Ethylbenzene	0.000	0.204	0.218	0.2	102	109	6.6
Xylenes 	0.000 	0.620	0.654	0.6	103	109	5.3
TPH (diesel)	0	71	71	70	102	102	0.2
TRPH (oil and grease)	0.0	21.1	23.0	20.8	101	111	8.6
•	0.0 	21.1	23.0	20.8 	101 	111	8.

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

QC REPORT FOR ICP and/or AA METALS

Date:

05/13/97

Matrix: Soil

Extraction:

TTLC

		Concent			% Recovery				
Analyt	е	(m	g/kg,mg/	L)	Amount			RPD	
		Sample	MS	MSD	Spiked	MS	MSD		
Total Lead	d	0	4.973	4.933	5.0	99	99	0.8	
Total Cad	mium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Total Chr	omium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Total Nic	kel	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Total Zin	c	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Total Cop	per	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
STLC Lead	d	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

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

APPENDIX D TANK CLOSURE PLAN

Reviewed	Ву
Approva1	Date
Rejection	Date

San Leandro Fire Department Hazardous Materials Division 835 East 14th Street San Leandro, CA 94577 (415) 577-3331

	Rev	4/91
Date	Received _	
F	anc Daid	

ŀ			UNDERGRO	OUND STORAGE TANK CLOSURE P	LAN/PERM	IIT
1.	Facility N	ame: Coas	st Gas & M	ini Mart Address:	1401	Grand Avenue
}	Contact Pe	rson: Mai	nonhan Cho	ppra	Phone M	io.:510-357-7330
1	Generator'	s U.S. El	PA Number: 9	AD983656364		
2.	Contractor	Bernabe	and Brin	ker, Inc. License	Type & N	lo.:A-Haz 610617
ì	Address: 2	240 Wood	d Street,	Oakland, CA. 94607		
l	Contact Pe	rson: Eri	nie Bernab	oe / James E. Brinker	Phone N	lo.:510-451-3482
3.	Sampling t	o be per	formed by P	and D Environmental	Phone M	lo.:510-658-6916
4.	Laboratory	services	s to be prov	vided by: McCampbell Ana	lytica	1
			o.: 1644			lo.:510-798-1620
5.	Tank Haule	r:Unive	rsal Envir			io.:CA0000061275
,				cia, CA. 94510	Phone I	No.:707-747-6699
1	-			clean, Inc.2570 Almond		
6.				ry Ice, CO 2		
7.				stible gas meter to be prov	ided: G	as Tech
8.	Tanks to b			•		
		Size	Content	Material of Construction	Age	Sample Analysis Method
	Tank 1	7,500	Unleaded	Steel	NA	
	Tank 2	7,500	Unl.Plus	Steel	NA	
}	Tank 3	6,000	Sup.Unl.	Steel	NA	
t	Tank 4	200	Waste Oil	. Steel	NA	
j	Piping	 				
Ì	L		<u> </u>	<u> </u>	<u>.L</u>	1
Sto	rage Tank C	losure Ro	equirements.	o comply with the San Leand . I declare under penalty to the best of my knowledge	of perj	Department Underground ury that the aforementioned

Campany Name: Bernabe and Br	rinker, Inc.	Address: 2240	Wood Stre	et Oakland. 94607
Applicant's Signature			<u> </u>	y 1,1997
	7			
Number of Tanks Removed	Inspector		Date	e

APPENDIX E CORRESPONDENCE

ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY

DAVID J. KEARS, Agency Director

RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
ALAMEDA COUNTY CC4580
DEPT. OF ENVIRONMENTAL HEALTH
DIV. OF ENVIRONMENTAL PROTECTION
1131 HARBOR BAY PKWY., #250
ALAMEDA CA 94502-6577

STID 4536

October 19, 1995

Mr. Manmohan S. Chopra 4216 Warbler Loop Premont, CA 94555

RE: 1401 GRAND AVENUE, SAN LEANDRO

Dear Mr. Chopra:

This office is in receipt of the August 23, 1995 P & D Environmental (P&D) Monitoring Well Installation Report, as submitted under your cover of the same date. This report documents the June 1995 installation of off-site wells MW-6, -7, and -8, and the sampling and monitoring of the entire well network.

At this time please maintain a quarterly schedule of monitoring, sampling and reporting for all wells within the network, effective immediately.

As you were informed previously, a <u>revised</u> Corrective Action Plan (CAP), consistent with provisions of Article 11 of Title 23, Corrective Action Requirements, must be developed. This revised CAP is to be based on the data acquired to date, and that which will be generated during the next couple of sampling/monitoring events. Free-phase product and other source removal, and plume control should be <u>minimum</u> objectives of such a CAP.

The revised CAP is expected to be submitted during the 2nd quarter of 1996.

I understand that you are planning to upgrade the existing tanks in the very near future. This tank project will afford an excellent opportunity to observe and remove contaminated subsurface materials from the site which may act as long-term sources of pollutants to ground water. You are encouraged, therefore, to integrate elements of the revised CAP with those of the tank project to make your corrective action efforts more cost-effective.

Mr. Chopra

RE: 1401 Grand Ave., San Leandro

October 19, 1995

Page 2 of 2

Please contact this office at 510/567-6783 should you have any questions.

Sincerely,

Scott O. Seery, CHMM

Senior Hazardous Materials Specialist

cc: Jun Makishima, Acting Agency Director

Gil Jensen, Alameda County District Attorney's Office

Kevin Graves, RWQCB

Mike Bakaldin, San Leandro Hazardous Materials Program

Paul King, P&D Environmental

ALAMEDA COUNTY *HEALTH CARE SERVICES

AGENCY

CY

DAVID J. KEARS, Agency Director

May 8, 1997

ENVIRONMENTAL HEALTH SERVICES 1131 Harbor Bay Parkway Alameda, CA 94502-6577 (510) 567-6777

STID 4536

Mr. Manmoham Chopra 4216 Warbler Loop Fremont, CA 94555

RE: 1401 GRAND AVENUE, SAN LEANDRO

Dear Mr. Chopra:

Four (4) underground storage tanks (UST) were removed from the site on Tuesday, May 6, 1997 under San Leandro Hazardous Materials Program oversight. Three (3) USTs formerly stored gasoline, and the fourth, waste oil. I was informed by representatives of your environmental consultant, P & D Environmental, that areas of apparent "hot" soil and backfill were encountered in the fuel UST pit and the north end of the dispenser island during closure activities.

As we discussed today and yesterday, a reasonable attempt to remove contaminated backfill and native material should ensue prior to setting the new tanks. This task was discussed previously in correspondence from this office dated October 19, 1995 (attached) in which such "source" removal was anticipated as one component of your final Corrective Action Plan (CAP) for the site.

I hope that this letter clarifies this issue. Please call me at 510/567-6783 should you have any further questions.

Sincerely,

Scott O. Seery, CHMM

Senior Hazardous Materials Specialist

attachment

cc: Mee Ling Tung, Director

Kevin Graves, RWQCB

Mike Bakaldin, San Leandro Hazardous Materials Program
Bernabe and Brinker, Inc., 2240 Wood St., Oakland, CA 94607

QC REPORT FOR ICP and/or AA METALS

Date:

05/07/97-05/08/97

Matrix: Soil

Extraction: TTLC

	Concenti	ration			% Reco	very	
Analyte	(mg	g/kg,mg/	L)	Amount			RPD
	Sample	MS	MSD	Spiked	MS	MSD	
Total Lead	0.0	4.65	4.51	5.0	93	90	3.1
Total Cadmium	0.0	5.64	5.67	5.0	113	113	0.5
Total Chromium	0.0	5.20	5.23	5.0	104	105	0.5
Total Nickel	0.0	4.82	4.66	5.0	96	93	3. 2
Total Zinc	0.0	5.69	5.63	5.0	114	113	1.0
Total Copper	0.00	4.86	4.71	5.0	97	94	3.2
STLC Lead	N/A	N/A	N/A	N/A	.N/A	N/A	N/A

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

P & D ENVIRONMENTAL
A Division of Paul H. King, Inc.
4020 Panama Court
Oakland, CA 94611
(510) 658-6916

CHAIN OF CUSTODY RECORD

2055 SAMPLED BY: (PRI	NTED AND			ARCO Service Station	or SRS	18/2	14	/}	/	/ /	/ /	///	Z /
Ahmad Gho			al	anglander	NUMBER OF CONTAINERS	₹/ **/	\$\\ \$\\	\Z\ \		:/			REMARKS
SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION	NOU	THE AWALTSIGGE	13	/	/	/-/		/ å	
DP1 - Z.0	5/6/97		Soil		1	X	X	2 ;				ILE	Hormal Turn Around
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P3- 2,5	"		"		7	X	X		- :	\$75	v	•	1 1 1 1 0 0
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	HEAD SI	ACE AB	SENT_	CONTAINERS		T	一						
		 	 		<u> </u>	╁	 			\vdash	Ė		
<u> </u>	 	 		4. 0	 	十		-,:	74,	-35	-		
RELINOUISHED BY	(SIGNATUR	<u> </u> F)	DATE	TIME RECEIVED BY (SIGNATURE)		TOT	U. HO	OF S	SALLP!	55 f.:	-4	LAG	JORATORY:
Ellenden	der	-,		1045	• • • •					HERS		F M	Campbell Arralytical
RELINDALISHED ATT:		E)	DATE	TIME RECEIVED BY: (SIGNATURE)		_						CT: LAE	ORATORY PHONE NUMBER
			9/1	1225 Vilide: Truca		E	١. ٢	hin	nith	m.	4: 1	्र ि	510) 798-1620
ELINQUISHED BY: (SIGNATURE) DATE TIME				TIME LECEIVED FOR LABORATORY (SIGNATURE) MAT	BECEIVED FOR LABORATORY BY:		SAMPLE ANALYSIS REQUEST SHEET ATTACHED: ()YES ()NO						

P & D Env 4020 Panai	vironmental ma Court		Client Proje Service Statio		'0055; Form	<u> </u>	Date Sampl Date Receiv		
Oakland, C	CA 94611	Ī	Client Conta	ct: Paul k	King		Date Extrac	ted: 05/12/	/97
		(Client P.O:				Date Analy	zed: 05/12/	97
Gasolis	ne Range (C6-4 s 5030, modified 8	C12) Vols	tile Hydroca	arbons as	Gasoline*, v	with Methy	yl tert-Butyl	Ether* &	BTEX*
Lab ID	Client ID	Matrix		Toluene	Ethylben- zene	Xylenes	% Rec. Surrogate		
76181	Comp A	S	120,b,j	10	0.068	0.92	0.36	5.3	97
76182	Comp B	S	310,b,j	2.7	ND< 0.035	2.0	3.0	26	97
-							<u> </u>		
								<u></u>	
		-	<u> </u>					-	
				<u> </u>					
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-				-					
Reportin	g Limit unless	w	50 ug/L	5.0	0.5	0.5	0.5	0.5	
Tehorem	>	1 ''						 	-

0.05

0.005

0.005

0.005

0.005

1.0 mg/kg

S

otherwise stated; ND means not detected

above the reporting limit

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

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

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

Edward Hamilton, Lab Director

P & D Enviro	onmental	Client P	roject 1D: #	0055; Former Arco	Date Sampled: 0	5/06/97
4020 Panama		Service S		:	Date Received:	
Oakland, CA	94611	Client Co	ontact: Paul K	ing	Date Extracted:	05/12/97
	-	Client P.	O:		Date Analyzed:	05/12/97
			Lea	d [*]		
EPA analytical r	nethods 6010/200.7, 239.2	, 			· · · · · · · · · · · · · · · · · · ·	R/ D
Lab ID	Client ID	Matrix	Extraction	Lea	d " 	% Recovery Surrogate
76181	Comp A	S	TTLC	. 66	,	102
76182	Comp B	s	TTLC	26	5	101
				·	<u> </u>	
					_	
<u> </u>						
		-				
		<u> </u>			-	
	it unless otherwise stated; it detected above the re-	S	TTLC	3.0 m		_
p	orting limit	W	TTLC	0.005		
	·····		STLC,TCLP	0.2 n		
_				nd all STLC & TCLP extra		4 Furnant for unter
samples				STLC & TCLP extracts a		
° EPA extraction	in methods 1311(TCLP),	3010/3020(water,TTLC), 30-	40(organic matrices,TTLC)), 3050(solids,TTLC)	STLC from CA Title
" surrogate dilu	ited out of range; N/A me	ans surrog	ate not applicable	e to this analysis		
a reporting lim	it raised due matrix interf	erence				
	e that contains greater t and can significantly effec			this sediment is extracted ions.	with the liquid, in	accordance with EPA

QC REPORT FOR HYDROCARBON ANALYSES

Date: 05/11/97-05/12/97 Matrix: Soil

	Concent	ration	(mg/kg)		% Reco	very	
Analyte	Sample (#74886)	MS	MSD	Amount Spiked	MS	MSD	RPD
TPH (gas) Benzene Toluene Ethylbenzene Xylenes	0.000 0.000 0.000 0.000	2.154 0.190 0.202 0.204 0.612	2.167 0.192 0.204 0.204 0.604	2.03 0.2 0.2 0.2 0.6	106 95 101 102 102	107 96 102 102 101	0.6 1.0 1.0 0.0
TPH (diesel)	0	71	71	75	95	95	0.2
TRPH (oil and grease)	N/A	N/A	N/A	N/A	N/A	N/A	n/a

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

QC REPORT FOR METALS

Date: 05/09/97-05/12/97 Matrix: Soil

Extraction:TTLC

	Concentr	ation			% Reco	very	
Analyte	[(mg	/kg,mg/I	رت)	Amount			RPD
-	Sample	MS	MSD	Spiked	MS	MSD	
Arsenic	j 0.0	4.5	4.6	5.0	90	93	2.7
Selenium	0.0	4.4	4.1	5.0	89	82	7.9
Molybdenum	0.0	4.3	4.6	5.0	87	91	4.6
Silver	0.0	0.4	0.4	0.5	86	86	0.1
Thallium	j 0.0	4.3	4.3	5.0	87	86	0.1
Barium	0.0	4.3	4.2	5.0	86	85	1.7
Nickel	0.0	4.4	4.4	5.0	88	89	0.6
Chromium	0.0	4.7	4.6	5.0	94	92	2.6
Vanadium	i 0.0	4.4	4.3	5.0	87	86	1.5
Beryllium	0.0	5.0	5.0	5.0	99	99	0.2
Zinc	0.0	5.0	4.9	5.0	99	98	1.1
Copper	0.0	4.4	4.4	5.0	88	87	0.8
Antimony	ì o.o	4.3	4.2	5.0	86	84	2.3
Lead	0.0	4.4	4.3	5.0	87	86	1.1
Cadmium	0.0	4.7	4.6	5.0	95	92	2.3
Cobalt	0.0	4.3	4.3	5.0	87	86	0.4
	0.000	0.260	0.260	0.25	104	104	0.0
Mercury	1 0.000	0.200	0.200	1	i		

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

P & D ENVIRONMENTAL A Division of Paul H. King, Inc. 4020 Panama Court Oakland, CA 94611 (510) 658-6916

CHAIN OF CUSTODY RECORD 8600 APD 214 PAGE 1 OF 1

PROJECT NUMBER: 0055 SAMPLED BY: (PRII		FENDIN		NAME: Allo Service Station aulphadur	<u> </u>			PRESERVA TIVE	REMARKS
SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION	NUN CONT	12/0	///	/	5d TAT OFF HOLD on 5/12/91 par A HOLD
COMP A	5/6/97		Soil		4	XX		ICE	HOLD
Comp B	′/		4		4	大人		The _	HOLD
									76181
		· .	1 2.2°						76182
· · · · · · · · · · · · · · · · · · ·	-]#3-1						<u> </u>
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RELINQUISHED BX		1388) 1388	DATE	TIME RECEIVED BY ASIGNATURE)	TOTAL HO. OF	SAMPLES C	2 LABOR	ATORY:
Mendella	Soil		1197.	1045 WIN	•	TOTAL NO. OF		3 McCa	imphell Analytulin
RELINGUISHED AY:	(SIGNATURE	Ε)	DATE	TIME RECEIVED BY: (SIGNATURE)		LABORATI	ory contai lamillou	CT: LABOR	ATORY PHONE NUMBER:) 798 —1626
EFLINGUISHED BY:	(SIGNATURE	E)	DATE	TIME RECEIVED FOR LABORATOR (SIGNATURE) MAT	Y BY!	S	ATTACHED:	LYSIS REQU	JEST SHEET (×)NO
				REMARKS: please who one Comp ?	comp samp				invitally fer

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

P&D Environmental	Client Project ID: #0055; Former	Date Sampled: 05/10/97
4020 Panama Court	Arco Service Station	Date Received: 05/12/97
Oakland, CA 94611	Client Contact: Paul King	Date Extracted: 05/12/97
	Client P.O:	Date Analyzed: 05/12-05/13/97

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

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

Lab ID	Client ID	Matrix	TPH(g) ⁺	МТВЕ	Benzene	Toluene	Ethylben -zene	Xylenes	% Recovery Surrogate
76319	TP7-15.0	S	ND	ND	ND	0.010	0.005	0.019	102
76320	TP8-17.0	s	ND	ND	ND	0.016	0.006	0.035	101
76321	TP9-17.5	S	4.2,a	6.0	0.017	0.029	0.028	0.17	103
76322	TP10-16.5	S	4200,b,d	87	6.3	130	78	600	98
76323	TP12-12.0	s	4.4,b,d	ND	ND	0.049	0.037	0.28	102
76324	TP13-12.0	s	1000,b,j	10	1.9	37	22	130	111*
76325	TP14-12.0	s	320,b,j	ND<0.75	ND<0.044	0.35	1.0	2.7	99
76326	TP15-13.0	s	1.7,b	0.23	סא	0.012	0.005	0.020	98
76327	TP16-13.5	s	ND	3.1	ND	0.008	ND	0.012	99
76328	TP17-12.0	S	ND	ND	ND	0.037	0.006	0.038	100
	ng Limit unless ise stated; ND	w	50 ug/L	5.0	0.5	0.5	0.5	0.5	
	it detected above porting limit	S	1.0 mg/kg	0.05	0.005	0.005	0.005	0.005	

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

cluttered chromatogram; sample peak coelutes with surrogate peak

^{&#}x27;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.

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

	I pad*	
	Client P.O:	Date Analyzed: 05/13/97
Oakland, CA 94611	Client Contact: Paul King	Date Extracted: 05/12/97
4020 Panama Court	Client Project ID: #0055; Former Arco Service Station	Date Received: 05/12/97
P&D Environmental	CIL A Prima ID HOOFF From A rea	Date Sampled: 05/10/97

			Lead*		
A analytical n	nethods 6010/200.7, 23	9.2*			
Lab ID	Client ID	Matrix	Extraction 6	Lead*	% Recovery Surrogate
76319	TP7-15.0	s	TTLC	6.8	104
76320	TP8-17.0	S	TTLC	5.4	105
76321	TP9-17.5	S	TTLC	6.2	106
76322	TP10-16.5	s	TTLC	9.2	105
76323	TP12-12.0	S	TTLC	6.6	104
76324	TP13-12.0	S	TTLC	6.5	106
76325	TP14-12.0	S	TTLC	10	98
76326	TP15-13.0	s	TTLC	6.8	98
76327	TP16-13.5	S	TTLC	6.7	99
76328	TP17-12.0	S	TTLC	5.7	99
Descring Lie	mit unber otherwise	S	TTLC	3.0 mg/kg	
tated; ND mea	mit unless otherwise ms not detected above	w	TTLC .	0.005 mg/L	
the re	porting limit		STLC,TCLP	0.2 mg/L	

^{*} soil and sludge samples are reported in mg/kg, wipe samples in ug/wipe, and water samples and all STLC / SPLP / TCLP extracts in mg/L
*Lead is analysed using EPA method 6010 (ICP)for soils, sludges, STLC & TCLP extracts and method 239.2 (AA Furnace) for water

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

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

^{*} reporting limit raised due matrix interference

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

McCAMPBELL ANALYTICAL INC.

5106589074

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				Date Sampled: 05/10/97		
P&D Enviror 4020 Panama		Client Pr Service S	oject ID: #0055; Former Arco Station	Date Received: 05/	12/97	
Oakland, CA		Client Co	ontact: Paul King	Date Extracted: 05	/13/97	
·		Client P.		Date Analyzed: 05		
			bons as Oil & Grease (with Sili Spectrometry*	ca Gel Clean-up) by	Sesoning IR	
EPA method 41	8.1 or 9073; Standard M	ethods 5520 (% Recovery	
Lab ID	Client ID	Matrix	тарн*		Surrogate	
76318	TP11-13.5	\$	ND		98	
					-	
	imit ualess otherwise	· W	1.0 mg/L			
	ens not detected above eporting limit	s	10 mg/kg		1	
t .		I				

^{*} water samples are reported in mg/L, wipe samples in mg/wipe and soils and sludges in mg/kg

^{*} surrogate diluted out of range or not applicable to this sample.

At the client's request or the laboratory's discretion, one or more positive samples may be run by direct injection chromatography with FID detection. The following comments pertain to these GC results: a) gasuline-range compounds (C6-C12) are present; b) diesel range compounds (C10-C23) are present; c) oil-range compounds (>C18) are present; d) other patterned solvent (?); e) isolated peaks; f) GC compounds are absent or insignificant relative to TRPH inferring that complex biologically derived molecules are the source of !R absorption; h) a lighter than water immiscible shear is present; i) liquid sample that contains greater than ~5 vol. % sediment.

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P&D Environmental	Client Project	ID: #0055; Former Arco	Date Sampled: 05/10/97 Date Received: 05/12/97 Date Extracted: 05/13/97 Date Analyzed: 05/13/97		
4020 Panama Court	Service Station	ı '			
Oakland, CA 94611	Client Contact:	Paul King			
	Client P.O;				
EPA method 601 or 8010	Volat	ile Halocarbons			
Lab ID	76318				
Client ID	TP11-13.5		·		
Matrix	Š	<u> </u>		 	
Compound	——————————————————————————————————————	Concentrat	ion	4	
Bromodichloromethene	ND			1	
Bromotom ⁽⁶⁾	ND	† ·	· · · · · · · · · · · · · · · · · · ·		
Bromomethane	ND	 		 	
Carbon Tetrachloride ^(c)	ND				
Chlorobenzene	ND	 		∱ 	
Chloroethane	ND			 	
2-Chloroethyl Vinyl Ether ⁽⁸⁾	NB			f	
Chloroform (r)	ND		_ <u></u>		
Chloromethane	ND				
Dibromochioromethane	ND				
1,2-Dichlorobenzens	ND				
1,3-Dichlorobenzene	ND				
1,4-Dichlorobenzenc	ND				
Dichlorodifluorgmethane	ND				
1,1-Dichlomethane	ND				
1,2-Dichloroethane	מא				
1,1-Dichloroethene	ND				
cis 1,2-Dichloroethene	ND				
trans 1,2-Dichloroethene	ND				
2-Dichloroptopane	ND				
cis 1,3-Dichloropropene	ND			ļ	
trans 1,3-Dichleropropene	ND				
Methylene Chloride ⁽¹⁾	ND	<u> </u>			
1,1,2,2-Tetrachloroethane	ND	<u> </u>		<u> </u>	
Tetrachioroethene	ND			<u> </u>	
1,1,1-Trichloroethane	ND	- 		<u> </u>	
l,1,2-Trichloroethane Trichlorgethene	ND			<u> </u>	
Trichloroflugromethane	ND	<u> </u>		ļ	
	ND	ļ			
Vinyl Chloride ^(g)	ND	<u> </u>		<u> </u>	
% Recovery Surrogate	100				
Comments		1		l	

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

DHS Certification No 1644

Edward Hamilton, Lab Director

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

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QC REPORT FOR HYDROCARBON ANALYSES

Date: 05/13/97

Matrix: Soil

P&D ENVIRONMENTAL

	Concent	ration	(mg/kg)		% Reco	vexy	
Analyte	Sample (#74886)	PMS	MSD	Amount Spiked	MS	MSD	RPD
TPH (gas)	0.000	2.210	2.069	2.03	109 95	102 107	6.6 11.9
Benzene Toluene	0.000	0.190	0.214	0.2 0.2	105	117	10.8
Ethylbenzene	0.000	0.204	0.218	0.2	102	109	6.6
Xylenes	0.000	0.620	0.654	0.6	103	109	5.3
TFH (diesel)	0	71	71	70	102	102	0,2
TRPH (oil and grease)	0.0	21.1	23.0	20.8	101	111	8.6

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

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QC REPORT FOR EPA 8010/8020/EDB

Date: 05/13/97

Matrix: Soil

	Concentration (ug/kg)			* Recovery			
Analyte	Sample			Amount			RPD
	(#74886)	MS	MSD	Spiked	MS 	MSD	
1,1-DCE	0	94	94	100	94	94	0.0
Trichloroethene	ĺ	83	82	100	83	82	1.2
EDB	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chlorobenzene	0	85	85	100	85	85	0.0
Benzene	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Toluene	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chlorobz (PID)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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

RPD - (MS - MSQ) / (M8 + MSD) x 2 K 100

QC REPORT FOR HYDROCARBON ANALYSES

Date: 05/11/97-05/12/97

Matrix: Soil

	Concent:	ration	(mg/kg)	ļ	% Reco	very	
Analyte	Sample (#74886)	MS	MSD	Amount Spiked 	 MS 	MSD	RPD
TPH (gas)	0.000	2.154	2.167	2.03	106	107	0.6
Benzene Toluene	0.000	0.190 0.202	0.192 0.204	0.2 0.2	95 101	96 102	1.0 1.0
Eth ylbenzene Xylenes	0.000	0.204 0.612	0.204 0.604	0.2 0.6	102 102	102 101	0.0 1.3
TPH (diesel)	0	71	71	70	102	102	0.2
TRPH (oil and grease)	N/A	N/A	N/A	 N/A	N/A	N/A	N/A

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