

ALDO
HAZMAT
94 OCT 13 11:41



Epigene International
CONSULTING GEOLOGISTS

October 10, 1994

Mr. Barney Chan
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502

Subject: Results of Sampling and Analysis for Soil Samples Collected During the
Removal of Two Tanks and Two Hydraulic Lifts; 2417 Broadway, Oakland

Dear Mr. Chan;

The subject site is located at the northwest corner of the intersection of Broadway and 24th Street in Oakland. The general location is shown on Figure 1, which is modified from the Oakland West U. S. Geological Survey 7.5 Min. Quadrangle. The site is covered with an existing warehouse-type building with office/commercial space in the portion of the building that fronts on Broadway. The building is presently vacant. It is my understanding that the site had been used for an automobile dealership at some point in the past.

TANK REMOVAL

Two underground storage tanks were removed from the sidewalk area of 24th Street adjacent to the building on July 28, 1994. Two hydraulic lift cylinders were removed from inside the *building* on the same date. A site area plan showing the relative locations of the tanks and hydraulic lifts is shown on Figure 2. A more detailed plan of the portion of the site that includes the tanks and lifts is shown on Figure 3.

Prior to the removal of the tanks, a combined total of approximately 500 gallons of liquid

2417 Broadway, Oakland
October 10, 1994
Page 2

was pumped from the two tanks by a vacuum truck. The liquid was taken by Erickson under manifest to Gibson Oil in Redwood City. A copy of the manifest is included in Appendix A. The tanks were then rendered inert using dry ice to displace the petroleum vapors.

Tank number 1 was a steel waste oil tank, approximately 295 gallons in size. The tank was encased within a concrete vault that measured 7.5 ft. by 3 ft. in plan and was 7 ft. deep. The concrete floor of the vault is 6 in. thick. There were no obvious holes in the tank, however, the soil surrounding the tank in the vault was contaminated. The soil was removed and stockpiled inside the building (see Figure 2). A hole was jackhammered through the base of the vault and a sample was collected from native soil approximately 6 inches below the concrete (at a total depth of approximately 8 ft.). The vault was subsequently backfilled with gravel and the sidewalk repaved with concrete.

Tank number 2 was a steel tank reported to have been used for the storage of leaded gasoline. The tank was approximately 575 gallons in size. Upon removal, the tank was observed to be in relatively poor condition with numerous corrosion pits and holes up to 4 in. in size. The base of the tank was at a depth of approximately 8 ft. The soil below the tank was contaminated and ~~excavation~~ ^{not true "overex"} was carried out to a depth of approximately 11 to 12 feet. Groundwater was observed to be entering the base of the excavation at this depth. It was not possible to excavate any further in a north-south direction without undermining the building to the north and the street to the south. Four soil samples were collected from the sidewalls at depths of 8.5 to 10 ft. in the excavation. The approximate depth of each sample is listed in Table 1. The sample locations are shown on Figure 3.

bec. only
one
round
of
samples
collected.

The spoil from the tank removal and overexcavation were combined with the spoil from Tank 1 and stored on and under plastic sheeting inside the building (see Figure 2). The

excavation was backfilled with gravel and the sidewalk repaved with concrete. The tanks were transported under manifest by Erickson to their facility in Richmond. A copy of the manifest is included in Appendix A.

SAMPLE ANALYSIS

The soil sample from Tank 1 was collected by driving a brass tube into native soil (brown silty clay) approximately 6 in. below the base of the concrete vault. The samples from Tank 2 were collected by driving a brass tube into soil brought to the surface by the backhoe from the selected locations (see Figure 3). All samples were sealed, labeled and placed in a chilled ice chest and transported to a State Certified Laboratory for the requested analysis.

The analysis for the sample from Tank 1 (the waste oil tank) included the following: TPH as diesel, TPH as gasoline, BTEX, Total Oil and Grease (418.1) volatile halocarbons (EPA 8010), semi-volatile organics (EPA 8270), and TTLC of the five LUFT metals (lead, cadmium, chromium, nickel, zinc) plus copper. The results of the TPH and BTEX analysis are summarized in Table 1. The others are summarized below.

Total Oil and Grease	^{418.1} 3900 PPM ✓
EPA 8010 (only compounds found are listed)	
1,2-Dichlorobenzine	50 PPB ✓
1,4-Dichlorobenzine	10 PPB ✓
EPA 8270	all ND ✓

* 570 TPH-d
910 TPH-g
ND benzene



LUFT Metals (TTLC)

STC

Lead	5 PPM	/	5.
Cadmium	ND		1
Chromium	28 PPM	/	5
Nickel	21 PPM	/	20
Zinc	25 PPM	/	250
Copper	23 PPM	/	25

The Certified Laboratory Report and the Chain of Custody documentation is presented in Appendix B.

The samples from Tank 2 were analyzed for TPH as gasoline, BTEX, and Total Lead (TTLC). The results of these analysis are summarized in Table 1. The samples identified as Tank 2 east and SW were first sent for analysis and based on the results of these analysis, the other two samples were sent. The Certified Laboratory Report for these data are also included in Appendix B.

HYDRAULIC LIFT SAMPLING

Soil samples were collected from the base of the rams for the hydraulic lifts on July 29, 1994. Because of *sluffing into the pits*, it was necessary to use a hand auger to collect samples from the native soil. The pits are identified as the north pit and the south pit. The locations are shown on Figure 3. The soil samples were analyzed for TPH as hydraulic oil. The results are shown on Table 1. The Certified Laboratory Report and Chain of Custody documentation is included in Appendix B.

SPOIL PILE SAMPLING AND ANALYSIS

The spoil pile which included soil from the excavation and overexcavation of the two tanks and the hydraulic lifts was sampled on August 5, 1994. A sample was collected from each quadrant of the pile and composited by the laboratory into one sample. The composite sample was analyzed for THP as gasoline, TPH as diesel and Total Lead. The results of these analysis are summarized in Table 1.

The initial analysis of the composite sample indicated that the lead concentration in the soil was too high for disposal at the BFI Vasco Road Facility, the originally proposed disposal site. The BFI Keller Canyon Facility would accept the spoil based on the results of additional analysis. These included: RCI, volatile organics (EPA 8240), and the TTLC for the 17 CAM Metals. The results of the 8240 analysis and the 17 CAM metals for the composite of the spoil pile are presented in tables 2 and 3 respectively. The Certified Laboratory Report and Chain of Custody documentation is included in Appendix B.

DISPOSITION OF THE SPOIL

Based on the results of the additional analysis, the soil was accepted by the Keller Canyon Facility for disposal. The soil was transported to that facility under a non-hazardous manifest on August 26 and 27, 1994. Copies of the manifests are included in Appendix C.

CONCLUSIONS AND RECOMMENDATIONS

1) Although Tank 1 appeared to be in relatively good condition when it was observed after removal, the analysis of the soil sample from below the vault indicated the presence of contamination. This may have resulted from overfilling of the tank and downward

migration of the contamination through joints in the concrete. The possible impact on groundwater is unknown.

~~Because of~~ the contamination present below the vault, an UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE / CONTAMINATION SITE REPORT was completed and is included in Appendix D.

2) Tank 2 was reported to be used for the storage of leaded gasoline. The tank was observed to be in relatively poor condition and soil contamination was found to continue to the depth of groundwater. It is assumed that groundwater has been impacted. An UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE / CONTAMINATION SITE REPORT was completed and is included in Appendix D.

3) There was some contamination present in the soil samples from below the hydraulic lifts.

4) ~~At least 3~~ Monitoring wells should be installed on the site to better define the extent of soil contamination and to assess the impact on groundwater. ~~Two~~ wells should be installed down gradient of each of the tanks and the third well should be installed inside the building in the area of the hydraulic lifts. Monitoring well on the south side of 24th Street adjacent to the site should be used to help determine the groundwater gradient for the site.

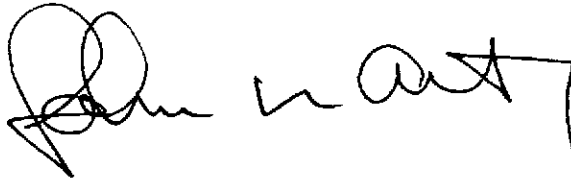
whose? where? Negherbon's

Prior to the installation of the wells, available data for the site area should be compiled and reviewed to help define possible background levels of contamination and regional groundwater gradients. A more detailed Workplan should be prepared to address any additional investigations.

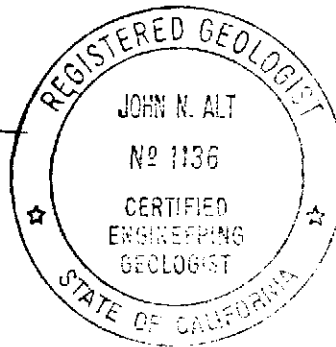
2417 Broadway, Oakland
October 10, 1994
Page 7

It is a pleasure to provide you with this report. Should you have any questions, please contact the undersigned.

Sincerely,



John N. Alt, CEG No. 1136



Attachments

cc: Mr. John Kao, Esq.
Mr. James Brinker

Table 1 - Summary of Results of Sample Analysis in PPM

Sample ID	Depth (FT)	TPH Gas	TPH Diesel	Benzene	Toluene	Ethyl-benzene	Xylene	Total Lead
T-1 Center	8	910 ✓	570	ND ✓	0.76 ✓	ND ✓	4.4 ✓	5.0
T-2 East	8.5	1500 ✓	NA	7.4 ✓	60	32	190	12 ✓
T-2 South	9	1500 ✓	NA	ND ✓	15	15	15	NA
T-2 S.W.	8.5	450 ✓	NA	0.49 ✓	1.4	5.9	22	5.8 ✓
T-2 North	10	280 ✓	NA	0.57 ✓	4.3	2.6	12	NA
Stockpile** -y	-	120 ✓	51 ✓	0.16 ✓	0.86	0.89	4.9	28
Pit North	8	NA	450*	NA	NA	NA	NA	NA
Pit South	7	NA	1800*	NA	NA	NA	NA	NA
		39	660	ND				

*TPH as hydraulic oil; ** four to one composite; NA is not analyzed, ND is not detected.

Pb=28
TPH=19
beneath
hydraulic
lifts

Table 2 - Results of 8240 Analysis for Spoilpile

ANALYTE	RESULT (ug/Kg)	REPORTING LIMIT (ug/Kg)	BLANK RESULT (ug/Kg)	BLANK SPIKE RESULT (%)
ACETONE	47	25	N.D.	--
BENZENE	42	5.0	N.D.	129
BROMODICHLOROMETHANE	N.D.	5.0	N.D.	--
BROMOFORM	N.D.	5.0	N.D.	--
BROMOMETHANE	N.D.	5.0	N.D.	--
2-BUTANONE	N.D.	5.0	N.D.	--
CARBON TETRACHLORIDE	N.D.	5.0	N.D.	--
CHLOROETHANE	N.D.	5.0	N.D.	105
2-CHLOROETHYL VINYLETHER	N.D.	5.0	N.D.	--
CHLOROFORM	N.D.	5.0	N.D.	--
CHLOROMETHANE	N.D.	5.0	N.D.	--
DIBROMOCHLOROMETHANE	N.D.	5.0	N.D.	--
1,1-DICHLOROETHANE	N.D.	5.0	N.D.	--
1,2-DICHLOROETHANE	N.D.	5.0	N.D.	--
1,1-DICHLOROETHENE	N.D.	5.0	N.D.	120
1,2-DICHLOROETHENE (CIS)	N.D.	5.0	N.D.	--
1,2-DICHLOROETHENE (TRANS)	N.D.	5.0	N.D.	--
1,2-DICHLOROPROPANE	N.D.	5.0	N.D.	--
1,3-DICHLOROPROPENE (CIS)	N.D.	5.0	N.D.	--
1,3-DICHLOROPROPENE (TRANS)	N.D.	5.0	N.D.	--
ETHYL BENZENE	2600	120	N.D.	--
2-HEXANONE	N.D.	5.0	N.D.	--
METHYLENE CHLORIDE	N.D.	25	N.D.	--
4-METHYL-2-PENTANONE	N.D.	5.0	N.D.	--
STYRENE	N.D.	5.0	N.D.	--
1,1,2,2-TETRACHLOROETHANE	N.D.	5.0	N.D.	--
TETRACHLOROETHENE	N.D.	5.0	N.D.	--
TOLUENE	1600	120	N.D.	106
1,1,1-TRICHLOROETHANE	N.D.	5.0	N.D.	--
1,1,2-TRICHLOROETHANE	N.D.	5.0	N.D.	--
TRICHLOROETHENE	N.D.	5.0	N.D.	95
TRICHLOROFUOROMETHANE	N.D.	5.0	N.D.	--
VINYL ACETATE	N.D.	5.0	N.D.	--
VINYL CHLORIDE	N.D.	5.0	N.D.	--
XYLENES (TOTAL)	19000	120	N.D.	--

Table 3 - Results of CAM 17 Metals Analysis for Spoilpile

Lab Id	40176				Detection Limit	
Client ID	S-1 to 4					
Matrix	Soil					
Extraction	TTLIC				TTLIC	STLC
Compound	Concentration*	Concentration*	Concentration*	Concentration*	mg/kg	mg/L
Antimony (Sb)	ND				1.00	0.05
Arsenic (As)	ND				2.5	0.25
Barium (Ba)	140				0.2	0.01
Beryllium (Be)	ND				0.2	0.01
Cadmium (Cd)	ND				0.2	0.01
Cobalt (Co)	9.4				0.4	0.02
Chromium (Cr)	39				0.02	0.005
Copper (Cu)	45				0.3	0.015
Lead (Pb)	--				0.6	0.03
Mercury (Hg)	ND				0.08	0.004
Molybdenum (Mo)	ND				0.4	0.02
Nickel (Ni)	44				0.4	0.02
Selenium (Se)	ND				5.0	0.1
Silver (Ag)	1.5				0.2	0.01
Thallium (Tl)	ND				2.00	0.1
Vanadium (V)	29				0.4	0.02
Zinc (Zn)	70				0.2	0.01
% Recovery Surrogate						
Comments						

* water samples are reported in mg/L, soil samples in mg/kg and all TCLP & STLC extracts in mg/L
 ° EPA extraction methods 1311(TCLP), 3010/3020(water,TTLIC), 3040(organic matrices,TTLIC), 3050(solids,TTLIC); STLC from CA Title 22
 a) aqueous sample that contains greater than ~ 2 vol. % sediments; the sediments are extracted with the liquid, in accordance with EPA methodologies, and can significantly increase reported metals values.



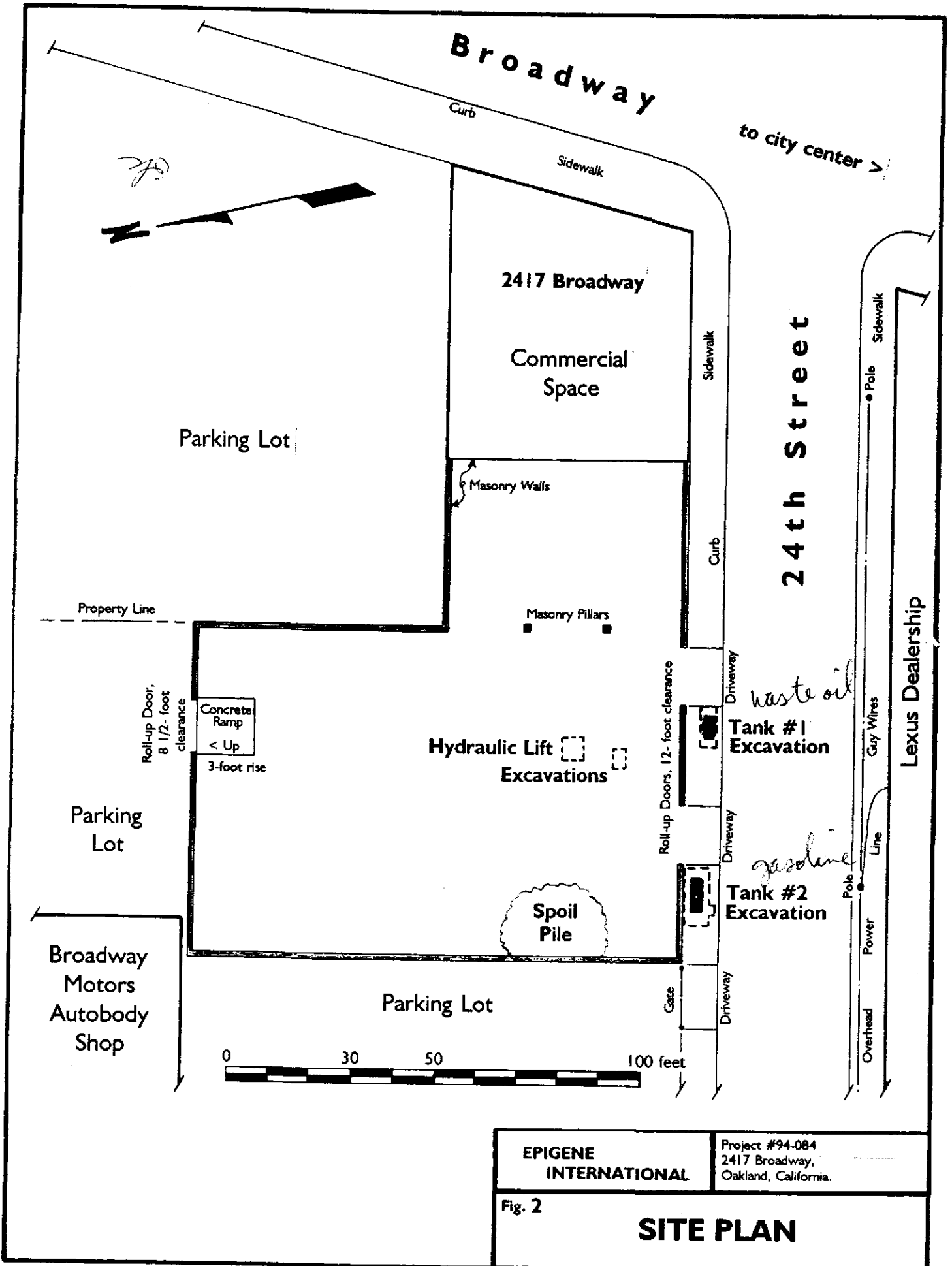
Base map from USGS 7 1/2 minute series
Oakland West quadrangle.

**EPIGENE
INTERNATIONAL**

Project #94-084
2417 Broadway,
Oakland, California.

Fig. 1

**SITE
LOCATION MAP**



EPIGENE INTERNATIONAL	Project #94-084 2417 Broadway, Oakland, California.
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Fig. 2

SITE PLAN



Hydraulic Pit North Sample



Hydraulic Pit South Sample

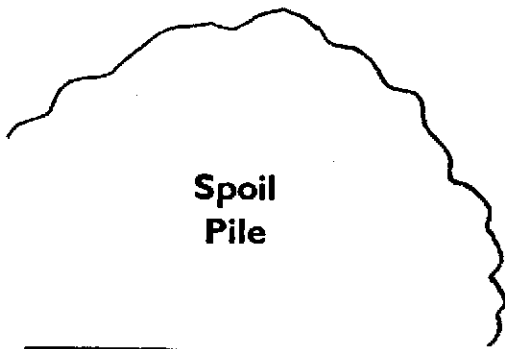


Hydraulic Lift Excavations

450

1800

YPH-HF



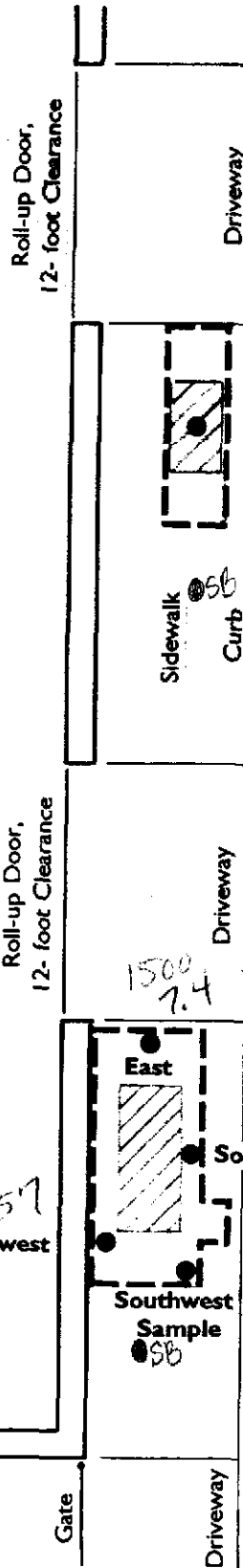
Spoil Pile

Autobody Shop Parking Lot



● Soil sample site.

our agreed-upon
SB/MW locations



Roll-up Door,
12-foot Clearance

Driveway

YPH-g
benz
TPH-d
TO G

Tank #1
(#14210)

Tank #1
Sample
ND8270
some 8010

910
ND
570
3900

24th Street

Sidewalk
Curb

Roll-up Door,
12-foot Clearance

Driveway

1500
7.4

Tank #2
(#14211)



South
SB

1500
ND

Southwest
Sample
SB

450
49

32 feet
< curb to curb >

Gate

Driveway

→
gww
towards
Lake

EPIGENE INTERNATIONAL	Project #94-084 2417 Broadway, Oakland, California.
Fig. 3	EXCAVATION AREA PLAN

APPENDIX A

TANK DISPOSAL MANIFEST

85250

See Instructions on back of page 6.

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CAC1000965483331 Manifest Document No. 017 2. Page 1 of 1
 Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
KC VIA Care of John K Kao
2500 California St. 29th Floor
 4. Generator's Phone (415) 392-5600

K. State Manifest Document Number
832
 L. State Generator's ID
9228

5. Transporter 1 Company Name
Environmental Inc
 6. US EPA ID Number
725 025 870

C. State Transporter's ID
9228
 D. Transporter's Phone
515-392-5600

7. Transporter 2 Company Name
 8. US EPA ID Number

E. State Transporter's ID
 F. Transporter's Phone

9. Designated Facility Name and Site Address
Gibson Oil Filter Refineries
479 Sea Port Blvd.
Redwood City, CA 94063
 10. US EPA ID Number
725 025 870

G. State Facility's ID
9228
 H. Facility's Phone
415-392-5600

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers		13. Total Quantity	14. Unit Wt/Vol
	No.	Type		
a. RC Hazardous Waste Liquids NCB Benzene <u>1 NA 0981 PG III D013 ERG #01</u>	<u>0101</u>	<u>T</u>	<u>500</u>	<u>G</u>
b.				
c.				
d.				

1. Additional Descriptions for Materials Listed Above
Hydrocarbon Mixture With Water (99% Water, 1% Hydrocarbons)
 K. Handling Codes for Wastes Listed Above
 a. b.
 c. d.

15. Special Handling Instructions and Additional Information
Gibson Oil Waste Stream Profile # ERG 21 24 Hr.
Contact: John K Kao 14 Hr. Phone# (415) 392-5600
Job # 85650 PO # E-16022T

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable federal, state and international laws.
 If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name LIBRANKE FOR JOHN KAO Signature [Signature] Month 01 Day 21 Year 94

17. Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Name Steve Fleming Signature [Signature] Month 01 Day 28 Year 94

18. Transporter 2 Acknowledgement of Receipt of Materials
 Printed/Typed Name _____ Signature _____ Month _____ Day _____ Year _____

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
 Printed/Typed Name _____ Signature _____ Month _____ Day _____ Year _____

DO NOT WRITE BELOW THIS LINE.

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-852-7550



Erickson Inc.

CUSTOMER SERVICE ORDER

Job No.: 35650-0-00 K3R

255 Parr Blvd., Richmond, CA 94801 (510) 235-1333

Driver Daily Time Sheet

13736 Glover Ave., Fontana, CA 92335 (909) 355-5801

Date: 04/07/25

1350 E. Greg St., Ste 3, Sparks, NV 89431 (702) 358-3551

Milkrun yes

M T W T F SAT SUN
Shift: GY O S

503 W. 400 South, Salt Lake City, UT 84101 (801) 358-8881

Driver Name: F. [unclear] Emp. No: [unclear]

Manifest No.: 93235687

Customer Name: 135- BERNABY & BEINKER INC.

Customer Order No.: _____

Jobsite Name & Address: 2417 BROADWAY XS 34TH
LEXUS
OAKLAND, CA 94601

Release No.: _____

Contact Name: ERNIE

Contact Phone: (510) 451-3482

Services

Performed: TSD OF 2-500 STEEL TANKS

Additional Information:

COD CHECK FOR \$1,250.00

1-18' FB

Driver's Comments:

Waste

Material: 118 510 14210, 14211 Profile/W.S.#: 1

Today's

Origin: _____ Today's Destination: _____ Our P.O.#: _____

Appointment Date & Time: _____ No. of Loads: _____ No. of Drums: _____

Truck No. 14217 Trailer No. _____

OFFICE USE ONLY

Truck EMS # _____

Payroll

Billing - Only if Different From Payroll

Payroll					Billing - Only if Different From Payroll				
Miles	Class	ST	OT	DT	Miles	Class	ST	OT	DT

Dispatcher's Approval _____

Did you perform your pre-trip equipment inspection? yes no

TOTAL PAY - THIS JOB: _____ hrs.

ST

OT

DT

miles

ROLL OFF CONTAINER INFORMATION

ADDITIONAL INFORMATION

Container No.	Container Pick Up Point	Disposal Site	Container Drop Off Point

EMS #	Qty.	Amount
85010	Tyvek	@
87200	Substance	@
99152	Washouts	@
99260	Neutralizations	@
2018	Box Liners	@
2017	End Dump Liner	@
99218	Bridge Fees	@
99218	Bridge Fees	@

CUSTOMER SIGNATURE ACKNOWLEDGES WORK PERFORMED AT JOB SITE ONLY.

Customer Representative Signature

Customer Representative - Please Print Name

Erickson Driver Signature

WHITE - Payroll Copy YELLOW - Billing Copy PINK - Dispatch Copy GOLDENROD - Customer Copy

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CA1999965-58 Manifest Document No. 38707

2. Page 1 of 1 Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
M. J. MA Co JOHN K. KAO
650 CARLETON AVE, 20th FLOOR SAN FRANCISCO, CA 94108
 4. Generator's Phone 415-392-5600

5. Transporter 1 Company Name ERICKSON INC 6. US EPA ID Number CA19999-100392
 7. Transporter 2 Company Name _____ 8. US EPA ID Number _____

9. Designated Facility Name and Site Address
ERICKSON, INC
150 Park Blvd.
Bethesda, MD 20814
 10. US EPA ID Number _____

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers		13. Total Quantity	14. Unit Wt/Vol
	No.	Type		
a. <u>NON-PCRA Hazardous Waste Solid</u> <u>Waste Empty Storage Tank.</u>	<u>002</u>	<u>TIF</u>	<u>1500</u>	<u>E</u>
b. _____				
c. _____				
d. _____				

J. Additional Descriptions for Materials Listed Above
Qty. 2 Empty Storage Tank (each 1570 Gallon)
Tank(s) have been filled with 15
lbs Dry Ice Per 1000 Gallon Capacity
 K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Keep away from sources of ignition. Always wear handhans when working around
1 3/8" T. 2 1/4 in. Contact Name John K. KAO Phone 415-392-5600

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable federal, state and international laws.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name JOHN K. KAO Signature _____ Month 9 Day 23 Year 94

17. Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Name Roger Hansen Signature _____ Month 07 Day 28 Year 94

18. Transporter 2 Acknowledgement of Receipt of Materials
 Printed/Typed Name _____ Signature _____ Month _____ Day _____ Year _____

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
 Printed/Typed Name _____ Signature _____ Month _____ Day _____ Year _____

DO NOT WRITE BELOW THIS LINE.

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-852-7550

258 Parr Blvd., Richmond, CA 94801 (510) 235-1393
 13738 Slover Ave., Fontana, CA 92335 (909) 355-5801
 1350 E. Greg St., Ste 3, Sparks, NV 89431 (702) 358-5551
 503 W. 400 South, Salt Lake City, UT 84101 (801) 358-8881

Driver Daily Time Sheet

Date: 34 07 08
 M T W **T** F SAT SUN
 Shift: GY **D** S

Milkrun yes

Driver Name: S Fleming Emp. No: 10023

Manifest No.: 9333300

Customer Name: 435- BERNABY & BRINKER INC.

Customer Order No.:

Jobsite Name & Address: 3417 BROADWAY KS 14TH LEXUS OAKLAND, CA 94601

Release No.:

Contact Name: ERNIE

Contact Phone: 510 451-3480

Services Performed: T&D OF 2-500 STEEL TANKS

Additional Information: COD CHECK FOR ~~34,250.00~~ 2,350.00
1-18 FEE 39 Bbl Vacuum Truck

Driver's Comments:

Waste Material: Profile/W.S.#: 10001
 Today's Origin: Today's Destination: Our P.O.# E-16022T
 Disposal Site: Green Ridge Appointment Date & Time: No. of Loads: No. of Drums:

OFFICE USE ONLY														
Truck No.	Trailer No.	Truck EMS #	Payroll					Billing - Only if Different From Payroll						
Hub Reading:	Begin	Ending	Total:	Miles	Class	ST	OT	DT	Miles	Class	ST	OT	DT	
1026	3541													
Total Time:	Start	Stop	Total:											
Job Site:	Arrive	Depart	Total:											
Disposal Site:	Arrive	Depart	Total:											
Meals:	Stop#1	Start#1	Total: ()	Did you perform your pre-trip equipment inspection? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no										
TOTAL PAY - THIS JOB:			hrs.	ST	OT	DT	miles							

ROLL OFF CONTAINER INFORMATION				ADDITIONAL INFORMATION			
Container No.	Container Pick Up Point	Disposal Site	Container Drop Off Point	EMS #	City	Amount	
				85010	Tyvek	@	
				97200	Subsistence	@	
				98152	Washouts	@	
				99280	Neutralizations	@	
				2018	Box Liners	@	
				2017	End Dump Liner	@	
CUSTOMER SIGNATURE ACKNOWLEDGES WORK PERFORMED AT JOB SITE ONLY				Customer Representative Signature: <u>J.E. Brinker</u>			
Erickson Driver Signature: <u>Steve Fleming</u>				Customer Representative - Please Print Name: <u>J.E. BRINKER</u>			
				99218 Bridge Fees @			
				99218 Bridge Fees @			

APPENDIX B

LABORATORY DATA

McCAMPBELL ANALYTICAL INC.

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

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

08/05/94

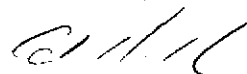
Dear John:

Enclosed are:

- 1). the results of 3 samples from your 2417 Broadway project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly,



Edward Hamilton

Epigene International 38750 Paseo Padre Pkwy, # B4 Fremont, CA 94536	Client Project ID: 2417 Broadway	Date Sampled: 07/28/94
		Date Received: 07/29/94
	Client Contact: John Alt	Date Extracted: 07/29/94
	Client P.O:	Date Analyzed: 07/30/94

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

Lab ID	Client ID	Matrix	TPH(g) ⁺	Benzene	Toluene	Ethylbenzene	Xylenes	% Rec. Surrogate
40088	Tank 1- Center	S	910,d	ND< 0.2	0.76	ND< 0.2	4.4	93
40089	Tank 2- East	S	1500,b,d	7.4	60	32	190	102
40090	Tank 2- SW	S	450,b	0.49	1.4	5.9	22	97
Detection Limit unless otherwise stated; ND means Not Detected		W	50 ug/L	0.5	0.5	0.5	0.5	
		S	1.0 mg/kg	0.005	0.005	0.005	0.005	

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

cluttered chromatogram, sample peak co-elutes 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 are significant; no recognizable pattern; 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 phase is present.

Epigene International 38750 Paseo Padre Pkwy, # B4 Fremont, CA 94536	Client Project ID: 2417 Broadway	Date Sampled: 07/28/94
		Date Received: 07/29/94
	Client Contact: John Alt	Date Extracted: 07/29/94
	Client P.O:	Date Analyzed: 07/30/94

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

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

Lab ID	Client ID	Matrix	TPH(d) ⁺	% Recovery Surrogate
40088	Tank 1- Center	S	570,g,d	89
Detection Limit unless otherwise stated; ND means Not Detected	W		50 ug/L	
	S		10 mg/kg	

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

cluttered chromatogram; surrogate and sample peaks co-elute or surrogate peak is on elevated baseline

+ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) modified diesel?; light(CL) or heavy(CH) diesel compounds are significant; d) gasoline range compounds are significant; e) medium boiling point pattern that does not match diesel(?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible phase is present.

McCAMPBELL ANALYTICAL INC.

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

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

Epigene International 38750 Paseo Padre Pkwy, # B4 Fremont, CA 94536	Client Project ID: 2417 Broadway	Date Sampled: 07/28/94
		Date Received: 07/29/94
	Client Contact: John Alt	Date Extracted: 07/29/94
	Client P.O:	Date Analyzed: 07/30/94

Total Recoverable Petroleum Hydrocarbons as Oil & Grease (with Silica Gel Clean-up) by Scanning IR Spectrometry*

EPA method 418.1 or 9073; Standard Methods 5520 C&F

Lab ID	Client ID	Matrix	TRPH ⁺
40088	Tank 1- Center	S	3900
Detection Limit unless otherwise stated; ND means Not Detected	W	5 mg/L	
	S	50 mg/kg	

*water samples are reported in mg/L and soils in mg/kg

⁺ If TPH(d) is not requested then all positive results are run by direct injection chromatography with FID detection. The following comments pertain to these GC results: a) gasoline-range compounds (C6-C12) present; b) diesel range compounds (C10-C23) present; c) oil-range compounds (> C18) 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.

Epigene International 38750 Paseo Padre Pkwy, # B4 Fremont, CA 94536	Client Project ID: 2417 Broadway	Date Sampled: 07/28/94
		Date Received: 07/29/94
	Client Contact: John Alt	Date Extracted: 07/31/94
	Client P.O.:	Date Analyzed: 07/31/94

Volatile Halocarbons

EPA method 601 or 8010

Lab ID	40088			
Client ID	Tank 1- Center			
Matrix	S			
Compound ⁽¹⁾	Concentration*	Concentration*	Concentration*	Concentration*
Bromodichloromethane	ND			
Bromoform ⁽²⁾	ND			
Bromomethane	ND			
Carbon Tetrachloride ⁽³⁾	ND			
Chlorobenzene	ND			
Chloroethane	ND			
2-Chloroethyl Vinyl Ether ⁽⁴⁾	ND			
Chloroform ⁽⁵⁾	ND			
Chloromethane	ND			
Dibromochloromethane	ND			
1,2-Dichlorobenzene	50			
1,3-Dichlorobenzene	ND			
1,4-Dichlorobenzene	10			
1,1-Dichloroethane	ND			
1,2-Dichloroethane	ND			
1,1-Dichloroethene	ND			
cis 1,2-Dichloroethene	ND			
trans 1,2-Dichloroethene	ND			
1,2-Dichloropropane	ND			
cis 1,3-Dichloropropene	ND			
trans 1,3-Dichloropropene	ND			
Methylene Chloride ⁽⁶⁾	ND			
1,1,2,2-Tetrachloroethane	ND			
Tetrachloroethene ⁽⁷⁾	ND			
1,1,1-Trichloroethane	ND			
1,1,2-Trichloroethane	ND			
Trichloroethene	ND			
Trichlorofluoromethane	ND			
Vinyl Chloride ⁽⁸⁾	ND			
% Recovery Surrogate	90			
Comments	up's same levels			

Detection limit unless otherwise stated: water, ND < 0.5ug/L; soil, ND < 10ug/kg

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

(1) IUPAC allows "ylene" or "ene"; ex ethylene or ethene; (2) tribromomethane; (3) tetrachloromethane; (4) (2-chloroethoxy) ethene; (5) trichloromethane; (6) dichloromethane; (7) perchlorethylene, PCE or perclor; (8) chloroethene; (9) unidentified peak(s) present.

McCAMPBELL ANALYTICAL INC.

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

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

Epigene International 38750 Paseo Padre Pkwy, # B4 Fremont, CA 94536	Client Project ID: 2417 Broadway	Date Sampled: 07/28/94
		Date Received: 07/29/94
	Client Contact: John Alt	Date Extracted: 07/29/94
	Client P.O:	Date Analyzed: 07/30/94

Lead*

EPA analytical method 239.2 or 7420†

Lab ID	Client ID	Matrix	Extraction°	Lead*
40089	Tank 2- Easr	S	TTLC	12
40090	Tank 2- SW	S	TTLC	5.8
Detection Limit unless otherwise stated; ND means Not Detected	W	TTLC	0.005mg/L	
	S	TTLC	4.0 mg/kg	
	---	STLC,TCLP	0.20 mg/L	

* soil samples are reported in mg/kg, and water samples and all STLC & TCLP extracts in mg/L
 † Lead is analysed using EPA method 7420 (AA Flame) for soils, STLC & TCLP extracts and method 239.2 (AA Furnace) for water samples
 ° EPA extraction methods 1311(TCLP), 3010/3020(water, TTLC), 3040(organic matrices, TTLC), 3050(solids, TTLC); STLC from CA Title 22

Epigene International 38750 Paseo Padre Pkwy, # B4 Fremont, CA 94536	Client Project ID: 2417 Broadway	Date Sampled: 07/28/94
	Client Contact: John Alt	Date Received: 07/29/94
	Client P.O:	Date Extracted: 07/29/94
		Date Analyzed: 07/30/94

LUFT Metals*

EPA analytical methods				239.2,7420 ⁺	213.1,7130	218.1,7190	249.1,7520	289.1,7950
Lab ID	Client ID	Matrix	Extraction ^o	Lead*	Cadmium*	Chromium*	Nickel*	Zinc*
40088	Tank 1- Center	S	TTLC	5.0	ND	28	21	25
Detection Limit unless otherwise stated; ND means Not Detected	W	TTLC	0.005mg/L	0.05	0.25	0.10	0.05	
	S	TTLC	4.0 mg/kg	1.0	5.0	2.0	1.0	
	---	STLC,TCLP	0.20 mg/L	0.05	0.25	0.10	0.05	

* soil samples are reported in mg/kg, and water samples and all STLC & TCLP extracts in mg/L
⁺ Lead is analysed using EPA method 7420 (AA Flame) for soils, STLC & TCLP extracts and method 239.2 (AA Furnace) for water samples
^o EPA extraction methods 1311(TCLP), 3010/3020(water,TTLC), 3040(organic matrices,TTLC), 3050(solids,TTLC); STLC from CA Title 22

McCAMPBELL ANALYTICAL INC.

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

Epigene International 38750 Paseo Padre Pkwy, # B4 Fremont, CA 94536	Client Project ID: 2417 Broadway	Date Sampled: 07/28/94
		Date Received: 07/29/94
	Client Contact: John Alt	Date Extracted: 07/29/94
	Client P.O:	Date Analyzed: 07/30/94

Metals by Flame Atomic Absorption*

EPA analytical methods				220.1,7210	272.1,7760	219.1,7200	279.1,7840	210.1,7090
Lab ID	Client ID	Matrix	Extraction ^o	Copper*	Silver*	Cobalt*	Thallium*	Beryllium*
40088	Tank 1- Center	S	TTLC	23	---	---	---	---
Detection Limit unless otherwise stated; ND means Not Detected	W	TTLC	0.10 mg/L	0.05	0.25	0.25	0.05	
	S	TTLC	2.0 mg/kg	2.0	5.0	5.0	1.0	
	---	STLC,TCLP	0.10 mg/L	0.10	0.25	0.25	0.1	

* soil samples are reported in mg/kg, and water samples and all STLC & TCLP extracts in mg/L
^o EPA extraction methods 1311(TCLP), 3010/3020(water, TTLC), 3040(organic matrices, TTLC), 3050(solids, TTLC); STLC from CA Title 22

DHS Certification No. 1644

 Edward Hamilton, Lab Director

QC REPORT FOR HYDROCARBON ANALYSES

Date: 07/30/94

Matrix: Soil

Analyte	Concentration (mg/kg)			Amount Spiked	% Recovery		
	Sample	MS	MSD		MS	MSD	RPD
TPH (gas)	0.000	1.702	1.801	2.03	84	89	5.6
Benzene	0.000	0.180	0.178	0.2	90	89	1.1
Toluene	0.000	0.182	0.182	0.2	91	91	0.0
Ethylbenzene	0.000	0.188	0.188	0.2	94	94	0.0
Xylenes	0.000	0.576	0.574	0.6	96	96	0.3
TPH (diesel)	0	315	315	300	105	105	0.0
TRPH (oil & grease)	0.0	21.6	20.7	20.8	104	100	4.3

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

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

QC REPORT FOR AA METALS

Date: 07/29-07/30/94

Matrix: Soil

Analyte	Concentration (mg/kg, mg/L)			Amount Spiked	% Recovery		RPD
	Sample	MS	MSD		MS	MSD	
Total Lead	0.0	0.9	0.9	1	90	94	4.3
Total Cadmium	0.0	1.0	1.0	1	95	99	4.1
Total Chromium	0.0	1.0	1.0	1	97	100	3.0
Total Nickel	0.0	0.9	1.0	1	94	98	4.2
Total Zinc	0.0	1.0	1.1	1	102	106	3.8
STLC LEAD	0.00	10.50	10.40	10.0	105	104	1.0
Total Copper	0.00	0.96	1.00	1.0	96	100	4.1

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

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

McCAMPBELL ANALYTICAL INC.

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

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

QC REPORT FOR EPA 8010/8020/EDB

Date: 07/31/94

Matrix: Soil

Analyte	Concentration (ug/kg)				% Recovery		
	Sample	MS	MSD	Amount Spiked	MS	MSD	RPD
1,1-DCE	0	92	98	100	92	98	6.3
Trichloroethene	0	88	98	100	88	98	10.8
EDB	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chlorobenzene	0	94	110	100	94	110	15.7
Benzene	0	110	110	100	110	110	0.0
Toluene	0	92	106	100	92	106	14.1
Chlorobz (PID)	0	94	110	100	94	110	15.7

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

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

American Environmental Network

Certificate of Analysis

DOHS Certification: 1172

AIHA Accreditation: 11134

PAGE 1

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

REPORT DATE: 08/18/94

DATE(S) SAMPLED: 07/28/94

DATE RECEIVED: 07/29/94

ATTN: EDWARD HAMILTON
CLIENT PROJ. ID: 2707
CLIENT PROJ. NAME: E/BROADWAY

AEN WORK ORDER: 9407353

PROJECT SUMMARY:

On July 29, 1994, this laboratory received 1 soil sample(s).

Client requested the sample be analyzed for organic parameters. Sample identification, methodologies, results and dates analyzed are summarized on the following pages.

Please see quality control report for a summary of QC data pertaining to this project.

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



Larry Klein
Laboratory Director

McCAMPBELL ANALYTICAL

SAMPLE ID: TANK 1-CENTER
 AEN LAB NO: 9407353-01
 AEN WORK ORDER: 9407353
 CLIENT PROJ. ID: 2707

DATE SAMPLED: 07/28/94
 DATE RECEIVED: 07/29/94
 REPORT DATE: 08/18/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for BNAs	EPA 3550	-		Extrn Date	08/03/94
Semi-Volatile Organics	EPA 8270				
Acenaphthene	83-32-9	ND	330	ug/kg	08/04/94
Acenaphthylene	208-96-8	ND	330	ug/kg	08/04/94
Anthracene	120-12-7	ND	330	ug/kg	08/04/94
Benzidine	92-87-5	ND	1600	ug/kg	08/04/94
Benzoic Acid	65-85-0	ND	1600	ug/kg	08/04/94
Benzo(a)anthracene	56-55-3	ND	330	ug/kg	08/04/94
Benzo(b)fluoranthene	205-99-2	ND	330	ug/kg	08/04/94
Benzo(k)fluoranthene	207-08-9	ND	330	ug/kg	08/04/94
Benzo(g,h,i)perylene	191-24-2	ND	330	ug/kg	08/04/94
Benzo(a)pyrene	50-32-8	ND	330	ug/kg	08/04/94
Benzyl Alcohol	100-51-6	ND	660	ug/kg	08/04/94
Bis(2-chloroethoxy)methane	111-91-1	ND	330	ug/kg	08/04/94
Bis(2-chloroethyl) Ether	111-44-4	ND	330	ug/kg	08/04/94
Bis(2-chloroisopropyl) Ether	108-60-1	ND	330	ug/kg	08/04/94
Bis(2-ethylhexyl) Phthalate	117-81-7	ND	330	ug/kg	08/04/94
4-Bromophenyl Phenyl Ether	101-55-3	ND	330	ug/kg	08/04/94
Butylbenzyl Phthalate	85-68-7	ND	330	ug/kg	08/04/94
4-Chloroaniline	106-47-8	ND	660	ug/kg	08/04/94
2-Chloronaphthalene	91-58-7	ND	330	ug/kg	08/04/94
4-Chlorophenyl Phenyl Ether	7005-72-3	ND	330	ug/kg	08/04/94
Chrysene	218-01-9	ND	330	ug/kg	08/04/94
Dibenzo(a,h)anthracene	53-70-3	ND	330	ug/kg	08/04/94
Dibenzofuran	132-64-9	ND	330	ug/kg	08/04/94
Di-n-butyl Phthalate	84-74-2	ND	330	ug/kg	08/04/94
1,2-Dichlorobenzene	95-50-1	ND	330	ug/kg	08/04/94
1,3-Dichlorobenzene	541-73-1	ND	330	ug/kg	08/04/94
1,4-Dichlorobenzene	106-46-7	ND	330	ug/kg	08/04/94
3,3'-Dichlorobenzidine	91-94-1	ND	660	ug/kg	08/04/94
Diethyl Phthalate	84-66-2	ND	330	ug/kg	08/04/94
Dimethyl Phthalate	131-11-3	ND	330	ug/kg	08/04/94
2,4-Dinitrotoluene	121-14-2	ND	330	ug/kg	08/04/94
2,6-Dinitrotoluene	606-20-2	ND	330	ug/kg	08/04/94
Di-n-octyl Phthalate	117-84-0	ND	330	ug/kg	08/04/94
1,2-Diphenylhydrazine	122-66-7	ND	330	ug/kg	08/04/94
Fluoranthene	206-44-0	ND	330	ug/kg	08/04/94
Fluorene	86-73-7	ND	330	ug/kg	08/04/94
Hexachlorobenzene	118-74-1	ND	330	ug/kg	08/04/94
Hexachlorobutadiene	87-68-3	ND	330	ug/kg	08/04/94
Hexachlorocyclopentadiene	77-47-4	ND	330	ug/kg	08/04/94

McCAMPBELL ANALYTICAL

SAMPLE ID: TANK 1-CENTER
 AEN LAB NO: 9407353-01
 AEN WORK ORDER: 9407353
 CLIENT PROJ. ID: 2707

DATE SAMPLED: 07/28/94
 DATE RECEIVED: 07/29/94
 REPORT DATE: 08/18/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Hexachloroethane	67-72-1	ND	330	ug/kg	08/04/94
Indeno(1,2,3-cd)pyrene	193-39-5	ND	330	ug/kg	08/04/94
Isophorone	78-59-1	ND	330	ug/kg	08/04/94
2-Methylnaphthalene	91-57-6	ND	330	ug/kg	08/04/94
Naphthalene	91-20-3	ND	330	ug/kg	08/04/94
2-Nitroaniline	88-74-4	ND	1600	ug/kg	08/04/94
3-Nitroaniline	99-09-2	ND	1600	ug/kg	08/04/94
4-Nitroaniline	100-01-6	ND	1600	ug/kg	08/04/94
Nitrobenzene	98-95-3	ND	330	ug/kg	08/04/94
N-Nitrosodimethylamine	62-75-9	ND	330	ug/kg	08/04/94
N-Nitrosodiphenylamine	86-30-6	ND	330	ug/kg	08/04/94
N-Nitrosodi-n-propylamine	621-64-7	ND	330	ug/kg	08/04/94
Phenanthrene	85-01-8	ND	330	ug/kg	08/04/94
Pyrene	129-00-0	ND	330	ug/kg	08/04/94
1,2,4-Trichlorobenzene	120-82-1	ND	330	ug/kg	08/04/94
4-Chloro-3-methylphenol	59-50-7	ND	330	ug/kg	08/04/94
2-Chlorophenol	95-57-8	ND	330	ug/kg	08/04/94
2,4-Dichlorophenol	120-83-2	ND	330	ug/kg	08/04/94
2,4-Dimethylphenol	105-67-9	ND	330	ug/kg	08/04/94
4,6-Dinitro-2-methylphenol	534-52-1	ND	1600	ug/kg	08/04/94
2,4-Dinitrophenol	51-28-5	ND	1600	ug/kg	08/04/94
2-Methylphenol	95-48-7	ND	330	ug/kg	08/04/94
4-Methylphenol	106-44-5	ND	330	ug/kg	08/04/94
2-Nitrophenol	88-75-5	ND	330	ug/kg	08/04/94
4-Nitrophenol	100-02-7	ND	1600	ug/kg	08/04/94
Pentachlorophenol	87-86-5	ND	1600	ug/kg	08/04/94
Phenol	108-95-2	ND	330	ug/kg	08/04/94
2,4,5-Trichlorophenol	95-95-4	ND	330	ug/kg	08/04/94
2,4,6-Trichlorophenol	88-06-2	ND	330	ug/kg	08/04/94

ND = Not detected at or above the reporting limit

* = Value above reporting limit

AEN (CALIFORNIA)
QUALITY CONTROL REPORT

AEN JOB NUMBER: 9407353

CLIENT PROJECT ID: 2707

Quality Control and Project Summary

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

Definitions

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

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

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

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

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

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

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

D: Surrogates diluted out.

#: Indicates result outside of established laboratory QC limits.

QUALITY CONTROL DATA

AEN JOB NO: 9407353
 DATE EXTRACTED: 08/03/94
 INSTRUMENT: 11

SURROGATE STANDARD RECOVERY SUMMARY
 METHOD: EPA 8270
 (SOIL MATRIX)

Date Analyzed	SAMPLE IDENTIFICATION		SURROGATE RECOVERY (PERCENT)					
	Sample Id.	Lab Id.	Nitro-benzene-d ₅	2-Fluoro-biphenyl	Terphenyl-d ₁₄	Phenol-d ₅	2-Fluoro-phenol	2,4,6-Tribromo-phenol
08/04/94	TANK 1-CENTER	01	33	64	113	47	26	72

CURRENT QC LIMITS

<u>ANALYTE</u>	<u>PERCENT RECOVERY</u>
Nitrobenzene-d ₅	(23-120)
2-Fluorobiphenyl	(30-115)
Terphenyl-d ₁₄	(18-137)
Phenol-d ₅	(24-113)
2-Fluorophenol	(25-121)
2,4,6-Tribromophenol	(19-122)

QUALITY CONTROL DATA

AEN JOB NO: 9407353
 DATE EXTRACTED: 08/03/94
 DATE ANALYZED: 08/10/94
 SAMPLE SPIKED: 9407303-07
 INSTRUMENT: 11

MATRIX SPIKE RECOVERY SUMMARY
 METHOD: EPA 8270
 (SOIL MATRIX)

ANALYTE	Spike Added (ug/kg)	Average Percent Recovery	RPD
Phenol	3330	57	21
2-Chlorophenol	3330	58	6
1,4-Dichlorobenzene	3400	48	7
N-Nitroso-di-n-propylamine	3320	43	19
1,2,4-Trichlorobenzene	3330	53	18
4-Chloro-3-methylphenol	3270	73	26
Acenaphthene	3330	60	10
4-Nitrophenol	3300	89	<1
2,4-Dinitrotoluene	3330	84	1
Pentachlorophenol	3380	91	7
Pyrene	3320	58	3

CURRENT QC LIMITS

Analyte	Percent Recovery	RPD
Phenol	(26- 90)	35
2-Chlorophenol	(25-102)	50
1,4-Dichlorobenzene	(28-104)	27
4-Nitroso-di-n-propylamine	(41-126)	38
1,2,4-Trichlorobenzene	(38-107)	23
4-Chloro-3-methylphenol	(26-103)	33
Acenaphthene	(31-137)	19
4-Nitrophenol	(11-114)	50
2,4-Dinitrotoluene	(28- 89)	47
Pentachlorophenol	(17-109)	47
Pyrene	(35-142)	36

Daily method blanks for all associated analytical runs showed no contamination over the reporting limit.

*** END OF REPORT ***

9407353

ASU R-7.5-C

CHAIN OF CUSTODY RECORD

McCAMPBELL ANALYTICAL

110 2nd AVENUE, # D7

PACIFIC COAST, CA 94683

(510) 708-1620

FAX (510) 708-1622

TURN AROUND TIME:

RUSH

24 HOUR

48 HOUR

5 DAY

ANALYSIS REQUEST

OTHER

REPORT TO:

Ed Hamilton

BILL TO:

McC Campbell

PROJECT NUMBER:

Q707

PROJECT NAME:

E/BROADWAY

PROJECT LOCATION:

SAMPLER SIGNATURE:

ANALYSIS REQUEST	OTHER	COMMENTS
BTX & TPH as Gasoline (602/8028 & 8015)		
TPH as Diesel (8015)		
Total Petroleum Oil & Grease (5020 CAF/5020 BAF)		
Total Petroleum Hydrocarbons (18-D)		
EPA 601/8010		
EPA 602/8020		
EPA 608/8080		
EPA 609/8090 - PCBs Only		
EPA 624/8240/8250		
EPA 625/8270		
CAH - 17 Metals		
EPA - Priority Pollutant Metals		
LEAD (7240/742/839.2/5010)		
ORGANIC LEAD		
PCI		

SAMPLE ID	LOCATION	SAMPLING		# CONTAINERS	TYPE CONTAINERS	MATRIX					METHOD PRESERVED						
		DATE	TIME			WATER	SOIL	AIR	SLUDGE	OTHER	HCL	HNO3	OTHER/ICE				
OIA Tank 1 - Center		7/28/74	PM	1	VDA		X						X				

RELINQUISHED BY: *[Signature]* DATE: *7/29/74* TIME: *1600*

RELINQUISHED BY: *[Signature]* DATE: *7/29/74* TIME: *1610*

RELINQUISHED BY: *[Signature]* DATE: TIME: RECEIVED BY: *[Signature]*

RECEIVED BY LABORATORY: *[Signature]*

REMARKS:

40088

CHAIN OF CUSTODY



Epigene International 2707AEI19

CONSULTING GEOLOGISTS

38750 Paseo Padre Parkway, Suite B-4
Fremont, California, 94536

Business: (510) 791-1986 FAX: (510) 791-3306

Laboratory: McCampbell Analytical
110 2nd Ave South, D7
Sacheco CA 94553

Contact: Ed Hamilton

Contact: John N. Ait Sampler: JNA
 Project Name: 2417 Broadway No. _____
 Date: 7/28/94

Sample I.D.	Date/Time Sampled	Matrix Desc.	Container No. of	Container Type	Lab. #	Analyses Requested										Comments							
						TPH/Gasoline	BTEX	TPH/Diesel	601/8010	602/8020	Total Lead	TOG 418	Spin Up	5	Wet		Capped						
1. Tank 1-center	7/28 PM	soil	1	brass tube		X	X	X	X													8'	
2.																							
3. Tank 2- east	7/28 PM	"	1	brass tube		X	X				X												8 1/4'
4. Tank 2- su	7/28 PM	"	1	"		X	X				X												8'
5.																							
6.																							40088
7.																							40088
8.																							40090
9.																							
10.																							

GOOD CONDITION ✓
 HEAD SPACE ABSENT ✓
 PRESERVATIVE APPROPRIATE ✓
 CONTAINERS ✓
 VUL: U & C METALS OTHER

Relinquished by: <u>[Signature]</u>	Date: <u>7/29/94</u>	Time: <u>9:30 AM</u>	Received by: <u>[Signature]</u>	Date: <u>7/29/94</u>	Time: <u>7:31 AM</u>
Relinquished by: <u>[Signature]</u>	Date: <u>7/29/94</u>	Time: <u>11:20 AM</u>	Received by: <u>[Signature]</u>	Date: <u>7/29/94</u>	Time: <u>11:20 AM</u>
Relinquished by: _____	Date: _____	Time: _____	Received by: _____	Date: _____	Time: _____

Turnaround Time: 24-hour for as much of it as possible EVERYTHING BUT 8270

Additional Comments: * metals - lead, nickel, chromium, copper, zinc, cadmium

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McCAMPBELL ANALYTICAL INC.

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

08/08/94

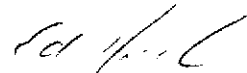
Dear John:

Enclosed are:

- 1). the results of 5 samples from your # 94-084; 2417 Broadway, Oakland project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly,



Edward Hamilton

Epigene International 38750 Paseo Padre Pkwy, # B4 Fremont, CA 94536	Client Project ID: # 94-084; 2417 Broadway, Oakland	Date Sampled: 07/28-07/29/94
		Date Received: 08/01/94
	Client Contact: John Alt	Date Extracted: 08/01/94
	Client P.O:	Date Analyzed: 08/01-08/02/94

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

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

Lab ID	Client ID	Matrix	TPH(g) ⁺	Benzene	Toluene	Ethylben- zene	Xylenes	% Rec. Surrogate
40102	Tank 2 South	S	1500,b,d	ND < 0.1	15	15	81	137 [#]
40103	Tank 2 North	S	280,b,d	0.57	4.3	2.6	12	97
40106	Stockpile	S	39,c,b	ND	0.48	0.12	0.008	105
Detection Limit unless other- wise stated; ND means Not Detected	W	50 ug/L	0.5	0.5	0.5	0.5		
	S	1.0 mg/kg	0.005	0.005	0.005	0.005		

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

[#] cluttered chromatogram; sample peak co-elutes 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 are significant; no recognizable pattern; 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 phase is present.

McCAMPBELL ANALYTICAL INC.

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

Epigene International 38750 Paseo Padre Pkwy, # B4 Fremont, CA 94536	Client Project ID: # 94-084; 2417 Broadway, Oakland	Date Sampled: 07/28-07/29/94
	Client Contact: John Alt	Date Received: 08/01/94
	Client P.O:	Date Extracted: 08/04/94
		Date Analyzed: 08/04/94

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

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

Lab ID	Client ID	Matrix	TPH(d) ⁺	% Recovery Surrogate
40106	Stockpile	S	660,d,g	---#
Detection Limit unless otherwise stated; ND means Not Detected	W	50 ug/L		
	S	10 mg/kg		

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

cluttered chromatogram; surrogate and sample peaks co-elute or surrogate peak is on elevated baseline

+ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) modified diesel?; light(c_L) or heavy(c_H) diesel compounds are significant; d) gasoline range compounds are significant; e) medium boiling point pattern that does not match diesel(?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible phase is present.

Epigene International 38750 Paseo Padre Pkwy, # B4 Fremont, CA 94536	Client Project ID: # 94-084; 2417 Broadway, Oakland	Date Sampled: 07/28-07/29/94
	Client Contact: John Alt	Date Received: 08/01/94
	Client P.O:	Date Extracted: 08/04/94
		Date Analyzed: 08/04/94

Hydraulic Oil (C16+) Extractable Hydrocarbons as Diesel *
 EPA methods modified 8015, and 3550 or 3510, California RWQCB (SF Bay Region) method GCFID(3550) or GCFID(3510)

Lab ID	Client ID	Matrix	TPH(ho) ⁺	% Recovery Surrogate
40104	North Pit	S	450,g,d	— [#]
40105	South Pit	S	1800,g,d	106
Detection Limit unless other- wise stated; ND means Not Detected	W	50 ug/L		
	S	10 mg/kg		

*water samples are reported in ug/L, soil samples in mg/kg, and all TCLP extracts in mg/L
[#] cluttered chromatogram; surrogate and sample peaks co-elute or surrogate peak is on elevated baseline
⁺ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) modified diesel?; light(CL) or heavy(CH) diesel compounds are significant; d) gasoline range compounds are significant; e) medium boiling point pattern that does not match diesel(?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible phase is present.

McCAMPBELL ANALYTICAL INC.

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

Epigene International 38750 Paseo Padre Pkwy, # B4 Fremont, CA 94536	Client Project ID: # 94-084; 2417 Broadway, Oakland	Date Sampled:07/28-07/29/94
		Date Received:08/01/94
	Client Contact: John Alt	Date Extracted:08/02/94
	Client P.O:	Date Analyzed:08/02/94

Lead*

EPA analytical method 239.2 or 7420⁺

Lab ID	Client ID	Matrix	Extraction ^o	Lead*
40106	Stockpile	S	TTLC	64
Detection Limit unless otherwise stated; ND means Not Detected	W	TTLC	0.005mg/L	
	S	TTLC	4.0 mg/kg	
	---	STLC,TCLP	0.20 mg/L	

* soil samples are reported in mg/kg, and water samples and all STLC & TCLP extracts in mg/L.
⁺ Lead is analysed using EPA method 7420 (AA Flame)for soils, STLC & TCLP extracts and method 239.2 (AA Furnace) for water samples
^o EPA extraction methods 1311(TCLP), 3010/3020(water,TTLC), 3040(organic matrices,TTLC), 3050(solids,TTLC); STLC from CA Title 22

DHS Certification No. 1644

 Edward Hamilton, Lab Director

Epigene International 38750 Paseo Padre Pkwy, # B4 Fremont, CA 94536	Client Project ID: # 94-084; 2417 Broadway, Oakland	Date Sampled: 07/28-07/29/94
	Client Contact: John Alt	Date Received: 08/01/94
	Client P.O.:	Date Extracted: 08/02/94

RCI (Reactivity, Corrosivity & Ignitability)

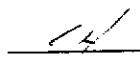
CA Title 22, Section 66261.21-66261.23

Lab ID	Client ID	Matrix	Reactivity ⁺	Corrosivity (pH)	Ignitability ^o
40106	Stockpile	S	negative	7.77	negative

⁺ negative means no obvious reaction with water, no evolution of gas upon contact with water, appears to contain no reactive cyanide or sulfide (< ~ 5 mg/kg by EPA SW-846, chapter 7, modified), and shows no indication of explosivity.

^o negative for a soil means the absence of spontaneous combustion and the absence of flammability upon exposure to a naked flame.

DHS Certification No. 1644

 Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.

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

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

QC REPORT FOR HYDROCARBON ANALYSES

Date: 08/01-08/02/94

Matrix: Soil

Analyte	Concentration (mg/kg)			Amount Spiked	% Recovery		
	Sample	MS	MSD		MS	MSD	RPD
TPH (gas)	0.000	1.748	1.717	2.03	86	85	1.8
Benzene	0.000	0.192	0.160	0.2	96	80	18.2
Toluene	0.000	0.178	0.162	0.2	89	81	9.4
Ethylbenzene	0.000	0.182	0.162	0.2	91	81	11.6
Xylenes	0.000	0.576	0.514	0.6	96	86	11.4
TPH (diesel)	0	308	305	300	103	102	1.1
TRPH (oil & grease)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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

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

QC REPORT FOR HYDROCARBON ANALYSES

Date: 08/03-08/04/94

Matrix: Soil

Analyte	Concentration (mg/kg)			Amount Spiked	% Recovery		
	Sample	MS	MSD		MS	MSD	RPD
TPH (gas)	0.000	1.659	1.674	2.03	82	82	0.9
Benzene	0.000	0.180	0.174	0.2	90	87	3.4
Toluene	0.000	0.184	0.182	0.2	92	91	1.1
Ethylbenzene	0.000	0.184	0.182	0.2	92	91	1.1
Xylenes	0.000	0.576	0.572	0.6	96	95	0.7
TPH (diesel)	0	310	313	300	103	104	0.9
TRPH (oil & grease)	0.0	24.1	24.8	20.8	116	119	2.9

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

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

QC REPORT FOR AA METALS

Date: 08/02/94

Matrix: Soil

Analyte	Concentration (mg/kg, mg/L)			Amount Spiked	% Recovery		RPD
	Sample	MS	MSD		MS	MSD	
Total Lead	0.0	10.0	9.9	10	100	99	1.0
Total Cadmium	0.0	9.9	9.9	10	99	99	0.0
Total Chromium	0.0	9.8	9.7	10	98	97	1.0
Total Nickel	0.0	9.9	9.8	10	99	98	1.0
Total Zinc	0.0	9.9	9.8	10	99	98	1.0
STLC LEAD	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

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

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

2714AEI20

CHAIN OF CUSTODY



Epigene International

CONSULTING GEOLOGISTS

38750 Paseo Padre Parkway, Suite B-4

Fremont, California, 94536

Business: (510) 791-1986 FAX: (510) 791-3306

Laboratory: McC Campbell Analytical, Inc.
110 2nd Ave South, D. 7
Pacheco, CA 94553
(510) 798-1620
 Contact: Ed Hamilton

Contact: John N. Ait Sampler: JNA/JDA
 Project Name: 2417 Broadway, Oakland No. 94-084
 Date: 7/29/94

Sample I.D.	Date/Time Sampled	Matrix Desc.	Container No. of	Type	Lab. #	Analyses Requested									
						TPH/Gasoline	BTEX	TPH/Diesel	601/8010	602/8020	Mod. 8015*	RCI	Total Lead		
1. Tank 2 south	7/28/94 ^{PM}	Soil	1	brass tube		X	X								40102
2. Tank 2 north	7/28/94 ^{PM}	"	"	"		X	X								40103
3. north pit	7/29/94 ^{PM}	"	"	"							X				40104
4. south pit	7/29/94 ^{PM}	"	"	"							X				40105
5. stockpile north	7/29/94 ^{PM}	"	"	"	Composite 4 to 1										
6. stockpile east	"	"	"	"		X	X	X				X	X		40106
7. stockpile south	"	"	"	"											
8. stockpile west	"	"	"	"											
9.															
10.															

Relinquished by: <u>[Signature]</u>	Date: <u>8/1/94</u>	Time: <u>1:20 PM</u>	Received by: <u>[Signature]</u>	Date: <u>8/1/94</u>	Time: <u>1:20 PM</u>
Relinquished by: <u>[Signature]</u>	Date: <u>8/1/94</u>	Time: <u>3:50</u>	Received by: <u>[Signature]</u>	Date: <u>8/1/94</u>	Time: <u>2:50</u>
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

Turnaround Time:

Additional Comments: * TPH as hydraulic oil

Page | of |

McCAMPBELL ANALYTICAL INC.

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

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

08/15/94

Dear John:

Enclosed are:

- 1). the results of 1 samples from your 2417 Broadway project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly,

Edward Hamilton

Epigene International 38750 Paseo Padre Pkwy, # B4 Fremont, CA 94536	Client Project ID: 2417 Broadway	Date Sampled:08/05/94
		Date Received:08/05/94
	Client Contact: John Alt	Date Extracted:08/05/94
	Client P.O:	Date Analyzed:08/05/94

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

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

Lab ID	Client ID	Matrix	TPH(g) ⁺	Benzene	Toluene	Ethylbenzene	Xylenes	% Rec. Surrogate
40176	S-1 to 4	S	120,b	0.16	0.86	0.89	4.9	97
Detection Limit unless otherwise stated; ND means Not Detected	W	50 ug/L	0.5	0.5	0.5	0.5	0.5	
	S	1.0 mg/kg	0.005	0.005	0.005	0.005	0.005	

*water samples are reported in ug/L, soil samples in mg/kg, and all TCLP extracts in mg/L
 # cluttered chromatogram; sample peak co-elutes 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 are significant; no recognizable pattern; 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 phase is present.

Epigene International 38750 Paseo Padre Pkwy, # B4 Fremont, CA 94536	Client Project ID: 2417 Broadway	Date Sampled: 08/05/94
		Date Received: 08/05/94
	Client Contact: John Alt	Date Extracted: 08/05/94
	Client P.O:	Date Analyzed: 08/06/94

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

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

Lab ID	Client ID	Matrix	TPH(d) ⁺	% Recovery Surrogate
40176	S-1 to 4	S	51,d,g	118 [#]

Detection Limit unless otherwise stated; ND means Not Detected	W	50 ug/L
	S	10 mg/kg

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

[#] cluttered chromatogram; surrogate and sample peaks co-elute or surrogate peak is on elevated baseline

⁺ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) modified diesel?; light(CL) or heavy(CH) diesel compounds are significant; d) gasoline range compounds are significant; e) medium boiling point pattern that does not match diesel(?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible phase is present.

McCAMPBELL ANALYTICAL INC.

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

Epigene International 38750 Pasco Padre Pkwy, # B4 Fremont, CA 94536	Client Project ID: 2417 Broadway	Date Sampled:08/05/94
		Date Received:08/05/94
	Client Contact: John Alt	Date Extracted:08/06/94
	Client P.O:	Date Analyzed:08/06/94

Total Recoverable Petroleum Hydrocarbons as Oil & Grease (with Silica Gel Clean-up) by Scanning IR Spectrometry*

EPA method 418.1 or 9073; Standard Methods 5520 C&F

Lab ID	Client ID	Matrix	TRPH ⁺
40176	S-1 to 4	S	190
Detection Limit unless otherwise stated; ND means Not Detected	W	5 mg/L	
	S	50 mg/kg	

*water samples are reported in mg/L and soils in mg/kg

+ If TPH(d) is not requested then all positive results are run by direct injection chromatography with FID detection. The following comments pertain to these GC results: a) gasoline-range compounds (C6-C12) present; b) diesel range compounds (C10-C23) present; c) oil-range compounds (> C18) 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.

Epigene International 38750 Paseo Padre Pkwy, # B4 Fremont, CA 94536	Client Project ID: 2417 Broadway	Date Sampled: 08/05/94
		Date Received: 08/05/94
	Client Contact: John Alt	Date Extracted: 08/05/94
	Client P.O.:	Date Analyzed: 08/07/94

Lead*

EPA analytical method 239.2 or 7420*

Lab ID	Client ID	Matrix	Extraction ^o	Lead*
40176	S-1 to 4	S	TTLC	28
Detection Limit unless otherwise stated; ND means Not Detected	W	TTLC	0.005mg/L	
	S	TTLC	4.0 mg/kg	
	--	STLC, TCLP	0.20 mg/L	

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

* Lead is analysed using EPA method 7420(AA Flame)for soils, STLC & TCLP extracts and method 239.2(AA Furnace) for water samples

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

McCAMPBELL ANALYTICAL INC.

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

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

Epigene International 38750 Paseo Padre Pkwy., Ste. B-4 Fremont, Ca. 94536	Client Project ID: 2417 Broadway	Date Sampled: 08/05/94
		Date Received: 08/05/94
	Client Contact: John Alt	Date Extracted: 08/09/94
	Client P.O:	Date Analyzed: 08/09/94

CAM 17 METALS

EPA methods 6010/7470

Lab Id	40176	Client ID	S-1 to 4	Matrix	Soil	Extraction ^o	TTLC	Detection Limit	
								TTLC	STLC
Compound	Concentration*	Concentration*	Concentration*	Concentration*	mg/kg	mg/L			
Antimony (Sb)	ND						1.00	0.05	
Arsenic (As)	ND						2.5	0.25	
Barium (Ba)	140						0.2	0.01	
Beryllium (Be)	ND						0.2	0.01	
Cadmium (Cd)	ND						0.2	0.01	
Cobalt (Co)	9.4						0.4	0.02	
Chromium (Cr)	39						0.02	0.005	
Copper (Cu)	45						0.3	0.015	
Lead (Pb)	--						0.6	0.03	
Mercury (Hg)	ND						0.08	0.004	
Molybdenum (Mo)	ND						0.4	0.02	
Nickel (Ni)	44						0.4	0.02	
Selenium (Se)	ND						5.0	0.1	
Silver (Ag)	1.5						0.2	0.01	
Thallium (Tl)	ND						2.00	0.1	
Vanadium (V)	29						0.4	0.02	
Zinc (Zn)	70						0.2	0.01	
% Recovery Surrogate									
Comments									

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

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

a) aqueous sample that contains greater than ~ 2 vol. % sediments; the sediments are extracted with the liquid, in accordance with EPA methodologies, and can significantly increase reported metals values.

DHS Certification No. 1644

 Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.

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

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

Epigene International 38750 Paseo Padre Pkwy, # B4 Fremont, CA 94536	Client Project ID: 2417 Broadway	Date Sampled:08/05/94
		Date Received:08/05/94
	Client Contact: John Alt	Date Extracted:08/05/94
	Client P.O:	Date Analyzed:08/05/94

RCI (Reactivity, Corrosivity & Ignitability)

CA Title 22, Section 66261.21-66261.23

Lab ID	Client ID	Matrix	Reactivity ⁺	Corrosivity (pH)	Ignitability ^o
40176	S-1 to 4	S	negative	7.57	negative

⁺ negative means no obvious reaction with water, no evolution of gas upon contact with water, appears to contain no reactive cyanide or sulfide (< ~ 5 mg/kg by EPA SW-846, chapter 7, modified), and shows no indication of explosivity.

^o negative for a soil means the absence of spontaneous combustion and the absence of flammability upon exposure to a naked flame.

DHS Certification No. 1644

 Edward Hamilton, Lab Director

QC REPORT FOR HYDROCARBON ANALYSES

Date: 08/05-08/06/94

Matrix: Soil

Analyte	Concentration (mg/kg)			Amount Spiked	% Recovery		
	Sample	MS	MSD		MS	MSD	RPD
TPH (gas)	0.000	1.934	1.941	2.03	95	96	0.4
Benzene	0.000	0.184	0.180	0.2	92	90	2.2
Toluene	0.000	0.192	0.188	0.2	96	94	2.1
Ethylbenzene	0.000	0.196	0.190	0.2	98	95	3.1
Xylenes	0.000	0.598	0.584	0.6	100	97	2.4
TPH (diesel)	0	319	319	300	106	106	0.0
TRPH (oil & grease)	0.0	24.4	23.8	20.8	117	114	2.5

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

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

QC REPORT FOR AA METALS

Date: 08/06-08/07/94

Matrix: Soil

Analyte	Concentration (mg/kg, mg/L)			Amount Spiked	% Recovery		RPD
	Sample	MS	MSD		MS	MSD	
Total Lead	0.0	0.9	0.9	1	93	92	1.1
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
STLC LEAD	0.00	0.95	0.92	1.0	95	92	3.2
Total Copper	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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

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

QC REPORT FOR METALS

Date: 08/09/94

Matrix: SOIL

Extraction: TCLP

Analyte	Concentration (mg/kg, mg/L)			Amount Spiked	% Recovery		
	Sample	MS	MSD		MS	MSD	RPD
Arsenic	0.0	9.8	9.8	10.0	98	98	0.2
Selenium	0.0	10.0	10.0	10.0	100	100	0.3
Molybdenum	0.0	9.8	10.2	10.0	98	102	4.4
Silver	0.0	1.5	1.6	1.5	101	107	6.4
Thallium	0.0	9.5	9.6	10.0	95	96	0.2
Barium	0.0	9.9	9.9	10.0	99	99	0.5
Nickel	0.0	9.6	9.8	10.0	96	98	1.6
Chromium	0.0	9.8	9.9	10.0	98	99	0.5
Vanadium	0.0	10.1	10.1	10.0	101	101	0.4
Beryllium	0.0	9.7	9.8	10.0	97	98	1.4
Zinc	0.0	9.3	9.4	10.0	93	94	1.5
Copper	0.0	9.6	9.8	10.0	96	98	1.2
Antimony	0.0	9.9	9.9	10.0	99	99	0.8
Lead	0.0	9.5	9.4	10.0	95	94	0.4
Cadmium	0.0	9.4	9.6	10.0	94	96	2.4
Cobalt	0.0	9.4	9.5	10.0	94	95	1.2
Mercury	0.00	378.00	357.00	400.0	95	89	5.7

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

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

CHROMALAB, INC.

Environmental Services (SDB)

August 10, 1994

Submission #: 9408108

MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: E/BROADWAY

Project#: 2733

Received: August 9, 1994

re: One sample for Volatile Organic Compounds analysis.

Sample ID: S-1 - S-4

Matrix: SOIL

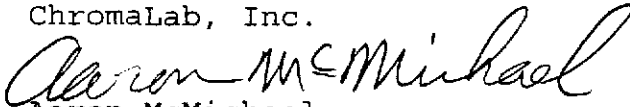
Sampled: August 5, 1994

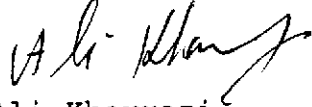
Spl #: 59885 Run: 3686 Analyzed: August 9, 1994

Method: EPA 8240/8260

ANALYTE	RESULT	REPORTING	BLANK	BLANK SPIKE
	(ug/Kg)	LIMIT	RESULT	RESULT
		(ug/Kg)	(ug/Kg)	(%)
ACETONE	47	25	N.D.	--
BENZENE	42	5.0	N.D.	129
BROMODICHLOROMETHANE	N.D.	5.0	N.D.	--
BROMOFORM	N.D.	5.0	N.D.	--
BROMOMETHANE	N.D.	5.0	N.D.	--
2-BUTANONE	N.D.	5.0	N.D.	--
CARBON TETRACHLORIDE	N.D.	5.0	N.D.	--
CHLOROBENZENE	N.D.	5.0	N.D.	105
CHLOROETHANE	N.D.	5.0	N.D.	--
2-CHLOROETHYLVINYLETHER	N.D.	5.0	N.D.	--
CHLOROFORM	N.D.	5.0	N.D.	--
CHLOROMETHANE	N.D.	5.0	N.D.	--
DIBROMOCHLOROMETHANE	N.D.	5.0	N.D.	--
1,1-DICHLOROETHANE	N.D.	5.0	N.D.	--
1,2-DICHLOROETHANE	N.D.	5.0	N.D.	--
1,1-DICHLOROETHENE	N.D.	5.0	N.D.	120
1,2-DICHLOROETHENE (CIS)	N.D.	5.0	N.D.	--
1,2-DICHLOROETHENE (TRANS)	N.D.	5.0	N.D.	--
1,2-DICHLOROPROPANE	N.D.	5.0	N.D.	--
1,3-DICHLOROPROPENE (CIS)	N.D.	5.0	N.D.	--
1,3-DICHLOROPROPENE (TRANS)	N.D.	5.0	N.D.	--
ETHYL BENZENE	2600	120	N.D.	--
2-HEXANONE	N.D.	5.0	N.D.	--
METHYLENE CHLORIDE	N.D.	25	N.D.	--
4-METHYL-2-PENTANONE	N.D.	5.0	N.D.	--
STYRENE	N.D.	5.0	N.D.	--
1,1,2,2-TETRACHLOROETHANE	N.D.	5.0	N.D.	--
TETRACHLOROETHENE	N.D.	5.0	N.D.	--
TOLUENE	1600	120	N.D.	108
1,1,1-TRICHLOROETHANE	N.D.	5.0	N.D.	--
1,1,2-TRICHLOROETHANE	N.D.	5.0	N.D.	--
TRICHLOROETHENE	N.D.	5.0	N.D.	95
TRICHLOROFLUOROMETHANE	N.D.	5.0	N.D.	--
VINYL ACETATE	N.D.	5.0	N.D.	--
VINYL CHLORIDE	N.D.	5.0	N.D.	--
XYLENES (TOTAL)	19000	120	N.D.	--

ChromaLab, Inc.


Aaron McMichael
Chemist


Ali Kharrazi
Organic Manager

QCAPP AARON 081804

CHAIN OF CUSTODY R

McCAMPBELL ANALYTICAL

110 2nd AVENUE, # D7
PACHICO, CA 94553

(510) 798-1620

FAX (510) 798-1622

SURM ID: 9408108
CLIENT: MCCAN
DUE: 08/10/94
REF #: 17881

17881

SH
 24 HOUR
 48 HOUR
 5 DAY

REPORT TO: E. Hamilton BILL TO: MPT
 PROJECT NUMBER: 2733 PROJECT NAME: 5/ Broadway
 PROJECT LOCATION: SAMPLER SIGNATURE: [Signature]

SAMPLE ID	LOCATION	SAMPLING		# CONTAINERS	TYPE CONTAINERS	MATRIX					METHOD PRESERVED			
		DATE	TIME			WATER	SOL	AIR	SLUDGE	OTHER	HCL	HNO ₃	OTHER	
<u>3-1-94</u>		<u>8/5/94</u>		<u>4</u>	<u>B</u>		<u>X</u>							<u>X</u>

ANALYSIS REQUEST												OTHER		COMMENTS
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RUSH

RELINQUISHED BY: <u>[Signature]</u>	DATE: <u>8-9-94</u>	TIME: <u></u>	RECEIVED BY: <u>[Signature]</u>
RELINQUISHED BY: <u></u>	DATE: <u></u>	TIME: <u></u>	RECEIVED BY: <u></u>
RELINQUISHED BY: <u></u>	DATE: <u></u>	TIME: <u></u>	RECEIVED BY LABORATORY: <u>Chronalab</u>

REMARKS: would like results by Tues 5PM please.

2733AEI21
AEI21A

CHAIN OF CUSTODY



Epigene International

CONSULTING GEOLOGISTS

38750 Paseo Padre Parkway, Suite B-4
Fremont, California, 94536

Business: (510) 791-1986 FAX: (510) 791-3306

Laboratory: McCampbell Analytical

Contact: Ed Hamilton

Contact: John N. Alt Sampler: JNA

Project Name: 2417 Broadway No. _____

Date: 8/5/94

Sample I.D.	Date/Time Sampled	Matrix Desc.	Container No. of	Type	Lab. #	Analyses Requested								Comments			
						TPH/Gasoline	BTEX	TPH/Diesel	601/8010	602/8020	418.1	201	Total Lead		CA17, 8240		
1. S-1	8/5/94 AM	soil	1	gross tube													
2. S-2	"	"	"	"	} composite 4 to 1	X	X	X			X	X	X	X		40176	
3. S-3	"	"	"	"													
4. S-4	"	"	"	"													
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

Relinquished by: <u>John Alt</u>	Date: <u>8/5/94</u>	Time: <u>12:30 PM</u>	Received by: <u>[Signature]</u>	Date: <u>8/5/94</u>	Time: <u>12:30 PM</u>
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

Turnaround Time: 24 hr.

Additional Comments: stock pile

Page 1 of 1

ICE/T ✓
GOOD CONDITION ✓
HEAD SPACE ABSENT ✓

PLEASE USE ✓
APPROPRIATE ✓
CONTAINERS ✓

JA 1-8-94
24 hr.

APPENDIX C

SOIL DISPOSAL MANIFESTS



NORTH CAROLINA SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV.
If waste is NOT asbestos waste, complete only Sections I, II and III.

No. 529865

Section I GENERATOR (Generator completes all of Section I)

a. Generator Name: KAI C. MA b. Generating Location: 2417 BROADWAY
 c. Address: 66 John Kao 650 California St. d. Address: 2417 BROADWAY
25th Floor San Francisco, CA 94108 OAKLAND CA
 e. Phone No.: (915) 392-5600 f. Phone No.: 915 392-5600

If owner of the generating facility differs from the generator, provide:

g. Owner's Name: KAI C. MA h. Owner's Phone No.: 915 392-5600

i. BFI WASTE CODE: CA 405 082294 221240 Containers: 7
 j. Description of Waste: SOIL k. Quantity: 7 Units: 7 No. 7 TYPE: T

- TYPE
 DM - METAL DRUM
 DP - PLASTIC DRUM
 B - BAG
 BA - 8 MIL. PLASTIC BAG or WRAP
 T - TRUCK
 O - OTHER
- UNITS
 P - POUNDS
 Y - YARDS
 M³ - CUBIC METERS
 Y³ - CUBIC YARDS
 O - OTHER

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

John Kao Generator Authorized Agent Name
[Signature] Signature
8 2694 Shipment Date

Section II TRANSPORTER

TRANSPORTER I
 a. Name: A.P. Baskin
 b. Address: 352 Hillside
Mountain View
 c. Driver Name/Title: H. B. Branson
 d. Phone No.: 229 4133 e. Truck No.: _____

TRANSPORTER II
 h. Name: _____
 i. Address: _____
 j. Driver Name/Title: _____
 k. Phone No.: _____ l. Truck No.: _____

f. Vehicle License No./State: _____ m. Vehicle License No./State: _____
 Acknowledgement of Receipt of Materials. Acknowledgement of Receipt of Materials.
 g. H. B. Branson Driver Signature 8 2694 Shipment Date
 n. _____ Driver Signature _____ Shipment Date

Section III DESTINATION (Generator completes a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z, aa, ab, ac, ad, ae, af, ag, ah, ai, aj, ak, al, am, an, ao, ap, aq, ar, as, at, au, av, aw, ax, ay, az, ba, bb, bc, bd, be, bf, bg, bh, bi, bj, bk, bl, bm, bn, bo, bp, bq, br, bs, bt, bu, bv, bw, bx, by, bz, ca, cb, cc, cd, ce, cf, cg, ch, ci, cj, ck, cl, cm, cn, co, cp, cq, cr, cs, ct, cu, cv, cw, cx, cy, cz, da, db, dc, dd, de, df, dg, dh, di, dj, dk, dl, dm, dn, do, dp, dq, dr, ds, dt, du, dv, dw, dx, dy, dz, ea, eb, ec, ed, ee, ef, eg, eh, ei, ej, ek, el, em, en, eo, ep, eq, er, es, et, eu, ev, ew, ex, ey, ez, fa, fb, fc, fd, fe, ff, fg, fh, fi, fj, fk, fl, fm, fn, fo, fp, fq, fr, fs, ft, fu, fv, fw, fx, fy, fz, ga, gb, gc, gd, ge, gf, gg, gh, gi, gj, gk, gl, gm, gn, go, gp, gq, gr, gs, gt, gu, gv, gw, gx, gy, gz, ha, hb, hc, hd, he, hf, hg, hh, hi, hj, hk, hl, hm, hn, ho, hp, hq, hr, hs, ht, hu, hv, hw, hx, hy, hz, ia, ib, ic, id, ie, if, ig, ih, ii, ij, ik, il, im, in, io, ip, iq, ir, is, it, iu, iv, iw, ix, iy, iz, ja, jb, jc, jd, je, jf, jg, jh, ji, jj, jk, jl, jm, jn, jo, jp, jq, jr, js, jt, ju, jv, jw, jx, jy, jz, ka, kb, kc, kd, ke, kf, kg, kh, ki, kj, kk, kl, km, kn, ko, kp, kq, kr, ks, kt, ku, kv, kw, kx, ky, kz, la, lb, lc, ld, le, lf, lg, lh, li, lj, lk, ll, lm, ln, lo, lp, lq, lr, ls, lt, lu, lv, lw, lx, ly, lz, ma, mb, mc, md, me, mf, mg, mh, mi, mj, mk, ml, mm, mn, mo, mp, mq, mr, ms, mt, mu, mv, mw, mx, my, mz, na, nb, nc, nd, ne, nf, ng, nh, ni, nj, nk, nl, nm, nn, no, np, nq, nr, ns, nt, nu, nv, nw, nx, ny, nz, oa, ob, oc, od, oe, of, og, oh, oi, oj, ok, ol, om, on, oo, op, oq, or, os, ot, ou, ov, ow, ox, oy, oz, pa, pb, pc, pd, pe, pf, pg, ph, pi, pj, pk, pl, pm, pn, po, pp, pq, pr, ps, pt, pu, pv, pw, px, py, pz, qa, qb, qc, qd, qe, qf, qg, qh, qi, qj, qk, ql, qm, qn, qo, qp, qq, qr, qs, qt, qu, qv, qw, qx, qy, qz, ra, rb, rc, rd, re, rf, rg, rh, ri, rj, rk, rl, rm, rn, ro, rp, rq, rr, rs, rt, ru, rv, rw, rx, ry, rz, sa, sb, sc, sd, se, sf, sg, sh, si, sj, sk, sl, sm, sn, so, sp, sq, sr, ss, st, su, sv, sw, sx, sy, sz, ta, tb, tc, td, te, tf, tg, th, ti, tj, tk, tl, tm, tn, to, tp, tq, tr, ts, tt, tu, tv, tw, tx, ty, tz, ua, ub, uc, ud, ue, uf, ug, uh, ui, uj, uk, ul, um, un, uo, up, uq, ur, us, ut, uu, uv, uw, ux, uy, uz, va, vb, vc, vd, ve, vf, vg, vh, vi, vj, vk, vl, vm, vn, vo, vp, vq, vr, vs, vt, vu, vv, vw, vx, vy, vz, wa, wb, wc, wd, we, wf, wg, wh, wi, wj, wk, wl, wm, wn, wo, wp, wq, wr, ws, wt, wu, wv, ww, wx, wy, wz, xa, xb, xc, xd, xe, xf, xg, xh, xi, xj, xk, xl, xm, xn, xo, xp, xq, xr, xs, xt, xu, xv, xw, xx, xy, xz, ya, yb, yc, yd, ye, yf, yg, yh, yi, yj, yk, yl, ym, yn, yo, yp, yq, yr, ys, yt, yu, yv, yw, yx, yy, yz, za, zb, zc, zd, ze, zf, zg, zh, zi, zj, zk, zl, zm, zn, zo, zp, zq, zr, zs, zt, zu, zv, zw, zx, zy, zz

a. Site Name: Keller Canyon c. Phone No.: _____
 b. Physical Address: 701 Bailey Rd. d. Mailing Address: _____
Pittsburg, CA

e. Discrepancy Indication Space: _____
 I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

1. Cecil Davis Name of Authorized Agent [Signature] Signature 082699 Receipt Date

Section IV ASBESTOS (Generator completes a-d, f, g; Operator* completes e.)

a. Operator's* Name: _____ b. Operator's* Phone No.: _____
 c. Operator's* Address: _____
 d. Special Handling Instructions and additional information: _____

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

e. Operator's* Name & Title: _____ Operator's* Signature: _____ Date: _____
 f. Name and Address of Responsible Agency: _____
 g. Friable; Non-friable; Both _____ % friable _____ % nonfriable

* Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation, or both.

RETURN TO GENERATOR



If waste is asbestos waste, complete Sections I, II, III and IV.
If waste is NOT asbestos waste, complete only Sections I, II and III.

No. 529867

Section I. GENERATOR (Generator completes all of Section I)

a. Generator Name: Ka. C. MA b. Generating Location: 2917 Broadway
c. Address: 40 John K. Kao 60 California St. Address: 2917 Broadway
29th Floor San Francisco, CA 94108 OAKLAND, CA
e. Phone No.: (415) 392-5600 f. Phone No.: (415) 392-5600

If owner of the generating facility differs from the generator, provide:
g. Owner's Name: Ka. C. MA h. Owner's Phone No.: (415) 392-5600

i. BFI WASTE CODE:

CA	905	OP	ZC	99	Z	Z	1	Z	4
----	-----	----	----	----	---	---	---	---	---

 Containers:

2	2	1	2	4
---	---	---	---	---

 j. Description of Waste: SOIL k. Quantity:

--	--	--	--	--

 Units:

--	--	--	--	--

 No.:

--	--	--	--	--

 TYPE:

--	--	--	--	--

 T

TYPE
DM - METAL DRUM
DP - PLASTIC DRUM
B - BAG
BA - 6 MIL. PLASTIC BAG
or WRAP
T - TRUCK
O - OTHER

UNITS
P - POUNDS
Y - YARDS
M³ - CUBIC METERS
Y³ - CUBIC YARDS
O - OTHER

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

John Kao Generator Authorized Agent Name Signature 8 26 99 Shipment Date

Section II. TRANSPORTER

TRANSPORTER I
a. Name: A.P. Backhe
b. Address: 352 Wilshire, Monterey
c. Driver Name/Title: A.P. Backhe
d. Phone No.: 229-4433 e. Truck No.: 7
f. Vehicle License No./State: _____
g. A.P. Backhe Driver Signature 8 26 99 Shipment Date

TRANSPORTER II
h. Name: _____
i. Address: _____
j. Driver Name/Title: _____
k. Phone No.: _____ l. Truck No.: _____
m. Vehicle License No./State: _____
n. Acknowledgement of Receipt of Materials: _____

Section III. DESTINATION

a. Site Name: BFI Keller Canyon c. Phone No.: _____
b. Physical Address: 901 Bailey Rd d. Mailing Address: _____
PITTSBURG, CA 94565

e. Discrepancy Indication Space: _____
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.
f. Mike D'Arcy Name of Authorized Agent Signature 08 26 99 Receipt Date

Section IV. ASBESTOS (Generator completes a-d, f, g, Operator* completes e)

a. Operator's* Name: _____ b. Operator's* Phone No.: _____
c. Operator's* Address: _____
d. Special Handling Instructions and additional information: _____

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

e. Operator's* Name & Title: _____ Operator's* Signature _____ Date _____

f. Name and Address of Responsible Agency: _____

g. Friable; Non-friable; Both _____ % friable _____ % nonfriable

* Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation, or both.

RETURN TO GENERATOR



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV.
If waste is NOT asbestos waste, complete only Sections I, II and III.

No. 517524

Section I GENERATOR (Generator completes a-f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z)

a. Generator Name: Ma Kaje and Kay b. Generating Location: 2415 24th St
 c. Address: _____ d. Address: Oakland Ca
 e. Phone No.: _____ f. Phone No.: _____

If owner of the generating facility differs from the generator, provide:

g. Owner's Name: Ma Kaje and Kay h. Owner's Phone No.: _____

i. BFI WASTE CODE _____ Containers: 22/240

j. Description of Waste: Non Hazardous Soil k. Quantity: 5 yds Units: Y No.: 1 TYPE: T

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Charlie Stiedman Charles Stiedman 03 27 94
 Generator Authorized Agent Name Signature Shipment Date

TYPE	
DM	- METAL DRUM
DP	- PLASTIC DRUM
B	- BAG
BA	- 6 MIL. PLASTIC BAG or WRAP
T	- TRUCK
O	- OTHER
UNITS	
P	- POUNDS
Y	- YARDS
M ³	- CUBIC METERS
Y ³	- CUBIC YARDS
O	- OTHER

Section II TRANSPORTER

a. Name: A.P. Beckhoe Service h. Name: _____
 b. Address: 532 Gilboa Ave i. Address: _____
Martinez Ca 94553
 c. Driver Name/Title: Antonio Bizarro j. Driver Name/Title: _____
 d. Phone No.: (510) 229-4133 k. Phone No.: _____
 e. Truck No.: #7 l. Truck No.: _____
 f. Vehicle License No./State: _____ m. Vehicle License No./State: _____

Acknowledgement of Receipt of Materials.

g. Antonio Bizarro _____ n. _____
 Driver Signature Shipment Date Driver Signature Shipment Date

Section III DESTINATION

a. Site Name: Keller Canyon c. Phone No.: _____
 b. Physical Address: 901 Bailey Rd d. Mailing Address: _____
Pittsburg

e. Discrepancy Indication Space: _____

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Cecil Davis Cecil Davis 08 27 94
 Name of Authorized Agent Signature Receipt Date

Section IV ASBESTOS (Generator completes a-c, f, g, Operator * completes e)

a. Operator's * Name: _____ b. Operator's * Phone No.: _____
 c. Operator's * Address: _____

d. Special Handling Instructions and additional information: _____
 OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable International and government regulations.

e. Operator's * Name & Title: _____ Operator's * Signature _____
 f. Name and Address of Responsible Agency: _____ Date _____

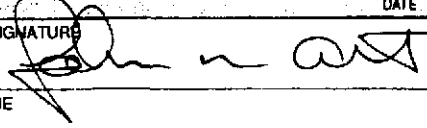
g. Friable; Non-friable; Both _____ % friable _____ % nonfriable

* Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation, or both.

APPENDIX D

UNAUTHORIZED RELEASE FORMS

UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK) / CONTAMINATION SITE REPORT

EMERGENCY <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		FOR LOCAL AGENCY USE ONLY I HEREBY CERTIFY THAT I HAVE DISTRIBUTED THIS INFORMATION ACCORDING TO THE DISTRIBUTION SHOWN ON THE INSTRUCTION SHEET ON THE BACK PAGE OF THIS FORM.	
REPORT DATE 0 <u>8</u> <u>0</u> <u>1</u> <u>9</u> <u>4</u>		CASE # _____		SIGNED _____ DATE _____	
REPORTED BY	NAME OF INDIVIDUAL FILING REPORT John N. Alt		PHONE (510) 791-1986		SIGNATURE 
	REPRESENTING <input checked="" type="checkbox"/> OWNER/OPERATOR <input type="checkbox"/> REGIONAL BOARD <input type="checkbox"/> LOCAL AGENCY <input type="checkbox"/> OTHER _____		COMPANY OR AGENCY NAME Epigene International		
	ADDRESS 38750 Paseo Padre Parkway, Fremont, California, 94536				
RESPONSIBLE PARTY	NAME <input checked="" type="checkbox"/> UNKNOWN		CONTACT PERSON _____		PHONE () _____
	ADDRESS _____				
SITE LOCATION	FACILITY NAME (IF APPLICABLE) unknown		OPERATOR _____		PHONE () _____
	ADDRESS 2417 Broadway, Oakland, Alameda				
	CROSS STREET 24th Street				
IMPLICATING AGENCIES	LOCAL AGENCY Alameda Co. Dept. of Environmental Health		AGENCY NAME _____		CONTACT PERSON Mr. Barney Chan
	REGIONAL BOARD _____		PHONE (510) 567-6700		PHONE () _____
SUBSTANCES INVOLVED	(1) NAME Unleaded gasoline		QUANTITY LOST (GALLONS) <input checked="" type="checkbox"/> UNKNOWN		
	(2) _____		<input type="checkbox"/> UNKNOWN		
DISCOVERY/ABATEMENT	DATE DISCOVERED 0 <u>7</u> <u>2</u> <u>8</u> <u>9</u> <u>4</u>		HOW DISCOVERED <input type="checkbox"/> INVENTORY CONTROL <input type="checkbox"/> SUBSURFACE MONITORING <input type="checkbox"/> NUISANCE CONDITIONS <input type="checkbox"/> TANK TEST <input checked="" type="checkbox"/> TANK REMOVAL <input type="checkbox"/> OTHER _____		
	DATE DISCHARGE BEGAN <input checked="" type="checkbox"/> UNKNOWN		METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY) <input checked="" type="checkbox"/> REMOVE CONTENTS <input checked="" type="checkbox"/> CLOSE TANK & REMOVE <input type="checkbox"/> REPAIR PIPING <input type="checkbox"/> REPAIR TANK <input type="checkbox"/> CLOSE TANK & FILL IN PLACE <input type="checkbox"/> CHANGE PROCEDURE <input type="checkbox"/> REPLACE TANK <input type="checkbox"/> OTHER _____		
	HAS DISCHARGE BEEN STOPPED? <input type="checkbox"/> YES <input type="checkbox"/> NO IF YES, DATE _____				
SOURCE/ CAUSE	SOURCE OF DISCHARGE <input checked="" type="checkbox"/> TANK LEAK <input type="checkbox"/> UNKNOWN <input type="checkbox"/> PIPING LEAK <input type="checkbox"/> OTHER _____		CAUSE(S) <input type="checkbox"/> OVERFILL <input type="checkbox"/> RUPTURE/FAILURE <input type="checkbox"/> SPILL <input type="checkbox"/> CORROSION <input type="checkbox"/> UNKNOWN <input type="checkbox"/> OTHER _____		
	CASE TYPE <input checked="" type="checkbox"/> UNDETERMINED <input type="checkbox"/> SOIL ONLY <input type="checkbox"/> GROUNDWATER <input type="checkbox"/> DRINKING WATER - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)				
CURRENT STATUS	CHECK ONE ONLY <input type="checkbox"/> NO ACTION TAKEN <input checked="" type="checkbox"/> PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED <input type="checkbox"/> POLLUTION CHARACTERIZATION <input type="checkbox"/> LEAK BEING CONFIRMED <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT UNDERWAY <input type="checkbox"/> POST CLEANUP MONITORING IN PROGRESS <input type="checkbox"/> REMEDIATION PLAN <input type="checkbox"/> CASE CLOSED (CLEANUP COMPLETED OR UNNECESSARY) <input type="checkbox"/> CLEANUP UNDERWAY				
	CHECK APPROPRIATE ACTION(S) (SEE BACK FOR DETAILS) <input type="checkbox"/> CAP SITE (CD) <input type="checkbox"/> EXCAVATE & DISPOSE (ED) <input type="checkbox"/> REMOVE FREE PRODUCT (FP) <input type="checkbox"/> ENHANCED BIO DEGRADATION (IT) <input type="checkbox"/> CONTAINMENT BARRIER (CB) <input type="checkbox"/> EXCAVATE & TREAT (ET) <input type="checkbox"/> PUMP & TREAT GROUNDWATER (GT) <input type="checkbox"/> REPLACE SUPPLY (RS) <input type="checkbox"/> VACUUM EXTRACT (VE) <input type="checkbox"/> NO ACTION REQUIRED (NA) <input type="checkbox"/> TREATMENT AT HOOKUP (HU) <input type="checkbox"/> VENT SOIL (VS) <input type="checkbox"/> OTHER (OT) to be determined.				
COMMENTS	_____				

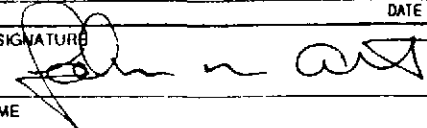
UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK) / CONTAMINATION SITE REPORT

EMERGENCY YES NO HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? YES NO

FOR LOCAL AGENCY USE ONLY
I HEREBY CERTIFY THAT I HAVE DISTRIBUTED THIS INFORMATION ACCORDING TO THE DISTRIBUTION SHOWN ON THE INSTRUCTION SHEET ON THE BACK PAGE OF THIS FORM.

REPORT DATE: 0 8 0 d 1 9 4 y CASE # _____

SIGNED _____ DATE _____

REPORTED BY: NAME OF INDIVIDUAL FILING REPORT: John N. Alt PHONE: (510) 791-1986 SIGNATURE: 
 REPRESENTING: OWNER/OPERATOR REGIONAL BOARD LOCAL AGENCY OTHER COMPANY OR AGENCY NAME: Epigene International
 ADDRESS: 38750 Paseo Padre Parkway, Fremont, California, 94536

RESPONSIBLE PARTY: NAME: UNKNOWN CONTACT PERSON: _____ PHONE: () _____
 ADDRESS: _____ STREET CITY STATE ZIP

SITE LOCATION: FACILITY NAME (IF APPLICABLE): unknown OPERATOR: _____ PHONE: () _____
 ADDRESS: 2417 Broadway, Oakland, Alameda, California, 94612
 CROSS STREET: 24th Street

IMPLEMENTING AGENCIES: LOCAL AGENCY: Alameda Co. Dept. of Environmental Health AGENCY NAME: Mr. Barney Chan CONTACT PERSON: Mr. Barney Chan PHONE: (510) 567-6700
 REGIONAL BOARD: _____ PHONE: () _____

SUBSTANCES INVOLVED: (1) Waste oil. QUANTITY LOST (GALLONS): UNKNOWN
 (2) _____ UNKNOWN

DISCOVERY/ABATEMENT: DATE DISCOVERED: 0 7 2 d 8 9 4 y HOW DISCOVERED: INVENTORY CONTROL SUBSURFACE MONITORING TANK TEST TANK REMOVAL OTHER
 DATE DISCHARGE BEGAN: _____ UNKNOWN METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY): REMOVE CONTENTS CLOSE TANK & REMOVE REPAIR PIPING
 HAS DISCHARGE BEEN STOPPED? YES NO IF YES, DATE: _____ REPAIR TANK CLOSE TANK & FILL IN PLACE CHANGE PROCEDURE
 REPLACE TANK OTHER

SOURCE/CAUSE: SOURCE OF DISCHARGE: TANK LEAK UNKNOWN PIPING LEAK OTHER CAUSE(S): OVERFILL RUPTURE/FAILURE SPILL CORROSION UNKNOWN OTHER

CASE TYPE: CHECK ONE ONLY: UNDETERMINED SOIL ONLY GROUNDWATER DRINKING WATER - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)

CURRENT STATUS: CHECK ONE ONLY: NO ACTION TAKEN PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED POLLUTION CHARACTERIZATION
 LEAK BEING CONFIRMED PRELIMINARY SITE ASSESSMENT UNDERWAY POST CLEANUP MONITORING IN PROGRESS
 REMEDIATION PLAN CASE CLOSED (CLEANUP COMPLETED OR UNNECESSARY) CLEANUP UNDERWAY

REMEDIAL ACTION: CHECK APPROPRIATE ACTION(S) (SEE BACK FOR DETAILS): EXCAVATE & DISPOSE (ED) REMOVE FREE PRODUCT (FP) ENHANCED BIO DEGRADATION (IT)
 CAP SITE (CD) EXCAVATE & TREAT (ET) PUMP & TREAT GROUNDWATER (GT) REPLACE SUPPLY (RS)
 CONTAINMENT BARRIER (CB) NO ACTION REQUIRED (NA) TREATMENT AT HOOKUP (HU) VENT SOIL (VS)
 VACUUM EXTRACT (VE) OTHER (OT) to be determined.

COMMENTS: _____