PATTERSON RANCH USED OIL STORAGE TANK REMOVAL

Downtown Toyota
4145 Broadway
Oakland, California

May 21, 1992

Prepared for

420 - 5636

Norman Alberts
Vice President Finance
Patterson Ranch
3493 Silver Spruce South Road
Lafayette, California

8-10:30 AM
attn RON Madero ~~Finan~~ stopforeman
420 - 5617
- 5644

Project No. BRK103/339

Bennett at Berkeley Farms ~~E. 14th~~ San Pablo.

Burlington Environmental Inc.
950 'B' Gilman Street • Berkeley, CA 94710
(510) ~~524-9372~~ • FAX: (510) 524-7439

5901 Christie Ave Suite 501 Emeryville, 94608 420-7910

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1.0 INTRODUCTION

Burlington Environmental Inc. (Burlington) is pleased to present this report which documents the activities associated with the removal of a single 500-gallon underground used oil storage tank at the Downtown Toyota site. On February 7, 1992, excavation began and the tank was removed. On April 15, 1992, additional soils were excavated and the excavation was backfilled. This work was authorized by contract between Patterson Ranch and Burlington dated December 16, 1992.

A description of procedures used to remove the tank is provided in the following report sections. Specific tank removal documentation is provided in Appendices A through E.

2.0 BACKGROUND

Downtown Toyota is located on Broadway, between 41st and 42nd Streets in Oakland, California (see Figure 1). The site is an active car dealership. The 500-gallon underground used oil storage tank is approximately 25 years old, and is located beneath a service bay (see Figure 2). The tank was utilized by the Downtown Toyota service maintenance department for storage of used oil from cars and trucks. The tank passed a precision tank and line test conducted by Associated Environmental Systems, Inc. on November 21, 1991 (see Appendix A).

3.0 GENERAL PROCEDURES

3.1 INITIAL PLANNING

Prior to work beginning at the site, Burlington performed an initial survey to assess the site. Also, during this period, Burlington contacted appropriate state and local authorities to establish current regulatory requirements. In addition to state and local regulations, we referred to federal requirements promulgated by Environmental Protection Agency (EPA) regulations (CFR 40 Part 280 and Part 281).

During project preparation, Burlington prepared a project specific Health and Safety Plan (HSP). All work conducted at the site was done in accordance with the HSP.

3.2 MONITORING AND SAMPLING

A combustible gas indicator (CGI) were used to monitor air quality during the tank removal activities. The air monitoring equipment was used primarily to conform to the HSP requirements, but was also used to conduct field assessments for the potential presence of petroleum hydrocarbons.

In addition, field observations and laboratory analysis were conducted to check for the presence of petroleum hydrocarbons. Field observations consisted of visual examination of the tank and tank excavation to look for any signs of tank perforations, leaking piping and stained soil. Laboratory samples were collected from the center of the excavation bottom. The samples were shipped to Western Environmental Science and Technology, Inc. (WEST) of Davis, California, for analysis using chain-of-custody protocol and following appropriate sample preservation techniques. In general, the samples were analyzed for

total petroleum hydrocarbons (TPH) as gasoline and diesel, total oil and grease, and benzene, toluene, ethylbenzene, and total xylenes (BTEX).

4.0 SUMMARY OF TANK REMOVAL ACTIVITIES

4.1 INITIAL EXCAVATION AND TANK REMOVAL

The tank excavation and removal took place on February 7, 1992, using equipment and personnel of Burlington under the supervision of Burlington's field construction supervisor. Work began at 8:00 am and was completed by 2:00 pm. The tank removal procedures were conducted in accordance with "Recommended Practice for Abandonment or Removal of Used Underground Service Station Tanks" (American Petroleum Institute Bulletin 1604, March 1981).

The tank removal work began by pumping the used oil from the tank using a sump pump. Approximately 15 gallons of used oil was pumped from the tank into a 55-gallon drum. After defueling the tank, a backhoe was used to excavate down to the top of the tank, which was encountered at a depth of approximately four feet below grade level (BGL).

The associated underground piping was also exposed using the backhoe. The piping was gravity drained, cutoff near the tank excavation, filled with a sand slurry, and capped off to remain in place in accordance with the procedures outlined in a correspondence from Burlington to the Alameda County Department of Environmental Health, Hazardous Materials Division (ACHMD) dated February 12, 1992 (see Appendix B).

Once the piping was disconnected, the tank was plugged and inerted with approximately 50 pounds of dry ice. The tank was removed from the excavation and inspected by the Oakland Fire Department and the ACHMD authorities. There were no pits or perforations discovered and the tank and associated piping were in good condition. Following inspection, the tank was loaded onto a truck for transportation offsite for disposal in accordance with state and/or local requirements (see Appendix C).

The total depth of the initial excavation was approximately eight feet BGL. During excavation and after removal of the tank, field observations did not indicate petroleum hydrocarbon staining or significant odors.

4.2 INITIAL SAMPLING AND ANALYTICAL RESULTS

Soil sample number 1BF was collected from the center of the initial excavation at a depth of eight feet BGL (see Figure 3). The sample was analyzed for TPH as gasoline, diesel and motor oil using modified EPA method 8015; oil and grease using ASTM method 5520,E,F; BTEX by EPA method 8020; volatile organic priority pollutants by EPA method 8240; and selected metals by atomic absorption.

Soil sample number 1BF contained 130 parts per million (ppm) of TPH quantitated as Stoddard Solvent by WEST, 0.042 ppm of ethylbenzene, 0.23 ppm of total xylenes, 900 ppm of TPH as motor oil, 630 ppm of oil and grease, and lead, zinc, and nickel at 20 ppm, 81 ppm, and 37 ppm, respectively (see Appendix D).

4.3 ADDITIONAL EXCAVATION

Due to the presence of detectable concentrations of petroleum hydrocarbons from the bottom of the initial excavation, additional excavation and sampling was performed as a remediation measure. On April 15, 1992, the excavation was deepened in an effort to remove impacted soil. Vertical excavation was continued; however, additional lateral excavation was not attempted due to the possibility of structurally damaging the foundation of the building. The additional excavation was continued to ten feet BGL when groundwater entered the excavation.

4.4 ADDITIONAL SAMPLING AND ANALYTICAL RESULTS

During the additional excavation, one soil sample was collected at a depth of nine feet BGL in the center of the excavation in dark clay native soil. Samples of the groundwater which entered the excavation were also collected. Samples locations are shown in Figure 3.

The chemical analysis of the soil and water samples was performed by WEST. Soil sample number SS-1A-DT, collected nine feet BGL, was analyzed for TPH as gasoline, diesel and motor oil using modified EPA method 8015 and BTEX using EPA method 8020. Groundwater sample number WS-1-DT was analyzed for TPH as gasoline using modified EPA method 8015 and BTEX using EPA method 602.

All analytes in soil sample number SS-1A-DT were below the method detection limits (see Appendix D). Water sample number WS-1-DT contained 180 parts per billion (ppb) of TPH as gasoline, and benzene, ethylbenzene, and total xylenes concentrations of 0.87 ppb, 0.55 ppb, 4.2 ppb, respectively (see Appendix D).

4.5 RESTORATION

Immediately following sampling the excavation was backfilled up to grade, using imported select granular material. The backfill materials was placed in approximately twelve-inch thick compacted lifts. An eight-inch thick concrete cap was placed to restore the site area.

4.6 DISPOSAL OF IMPACTED SOIL

Approximately twenty cubic yards of petroleum hydrocarbon impacted soil was generated during the tank removal excavation. This soil was profiled and disposed of at Browning-Ferris Industries, Vasco Road Landfill, in Livermore, California (Appendix E).

5.0 CONCLUSIONS AND RECOMMENDATIONS

Based upon field observations and laboratory analyses, Burlington has determined the following:

* Although no sign of tank failure was observed during removal, petroleum hydrocarbons were detected in soil samples from a depth of eight feet BGL, perhaps due to overspill

* Soil sample analyses from the additional excavation did not detect petroleum hydrocarbons, indicating that the impacted soil was removed to acceptable levels and that further excavation will not be required

* Groundwater samples collected during overexcavation indicate that the groundwater has been impacted by petroleum hydrocarbons

Based upon field observations and laboratory analyses, Burlington makes the following recommendations:

* Submit the field observations and laboratory results to the ACHMD

* Request a meeting with ACHMD to address the impacted groundwater and future work at the site, if any

6.0 LIMITATIONS

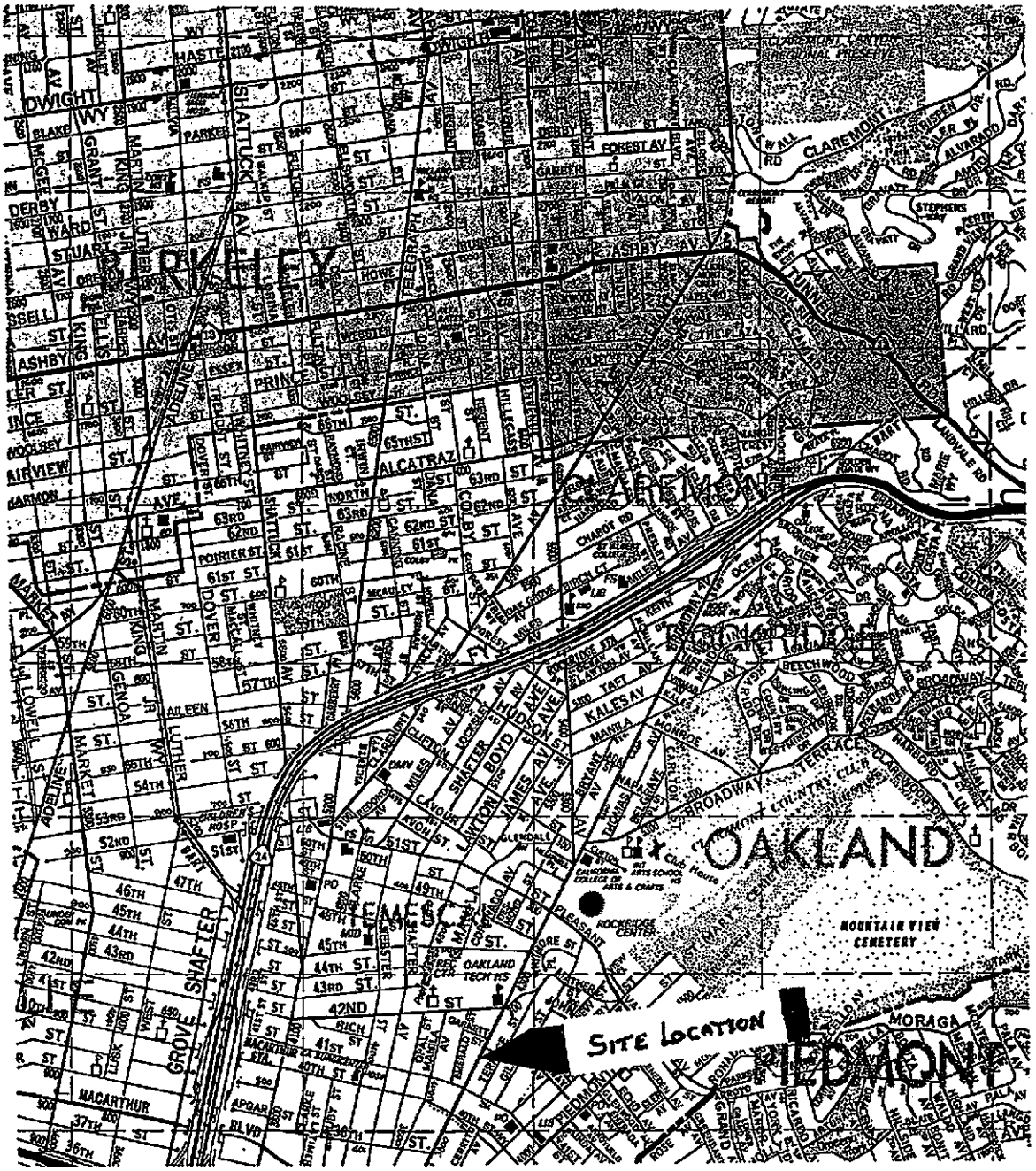
The services provided were performed in accordance with current, generally-accepted environmental consulting principles and practices. The conclusions and recommendations presented reflect opinions based on these practices. No other warranty, expressed or implied, is made.

If you have any questions regarding the information provided or should this problem require further attention, please do not hesitate to contact our office at (510) 524-9372. Thank you for allowing Burlington the opportunity to serve your environmental needs.

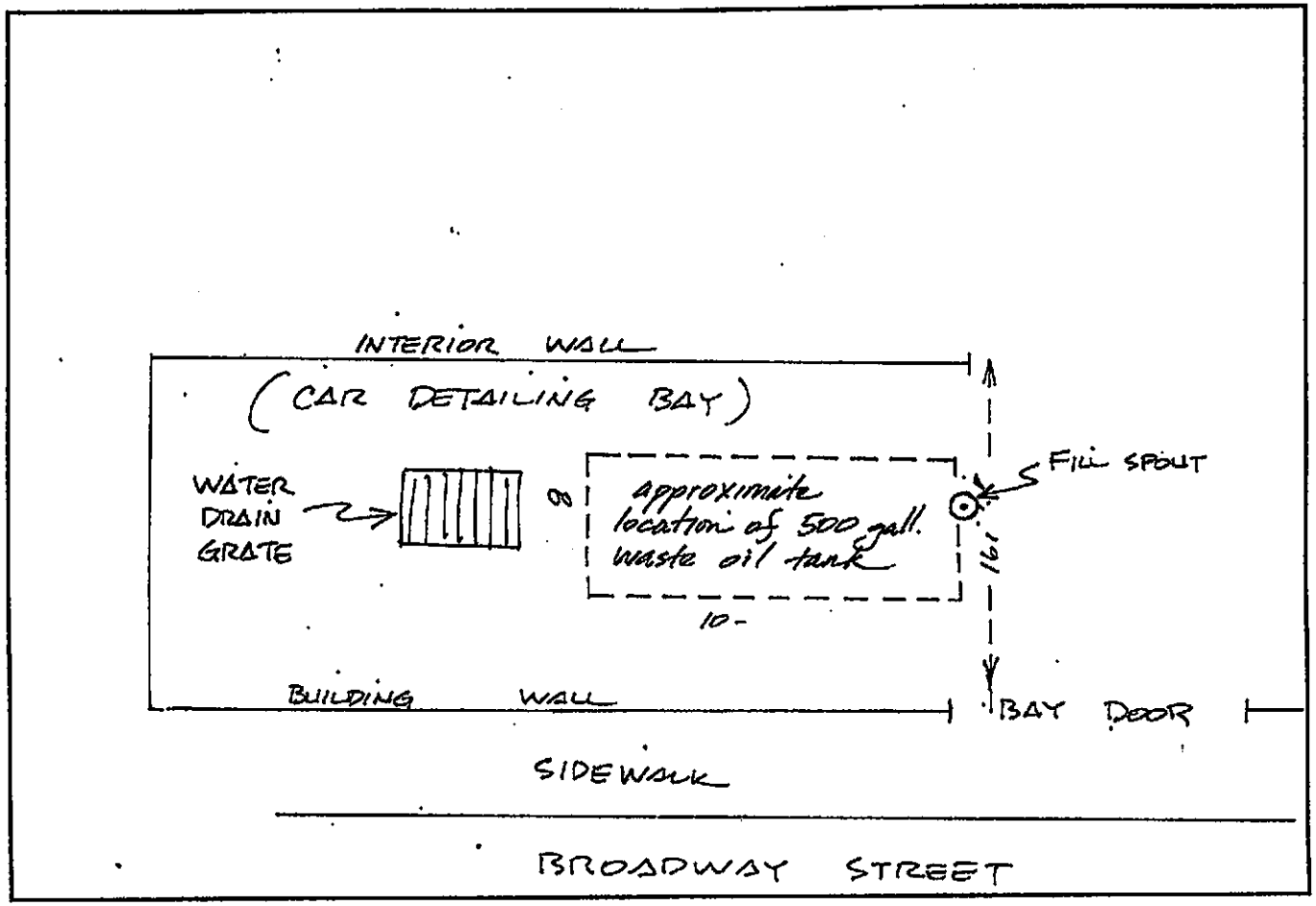
Sincerely,
BURLINGTON ENVIRONMENTAL

Jeff Allen
Project Manager

Dave Tight
Investigation/Remediation Manager



BURLINGTON ENVIRONMENTAL INC.	SITE LOCATION MAP Downtown Toyota 4145 Broadway Oakland, California	Figure 1
		Project No. BRK-103
		Drawn By PPK / Date 5/14/92
	Reviewed By: / Date : 26 May 92	Drawing No. A0673101



BURLINGTON ENVIRONMENTAL INC.

TANK SITE PLAN
Downtown Toyota
4145 Broadway
Oakland, California

Reviewed By : JA

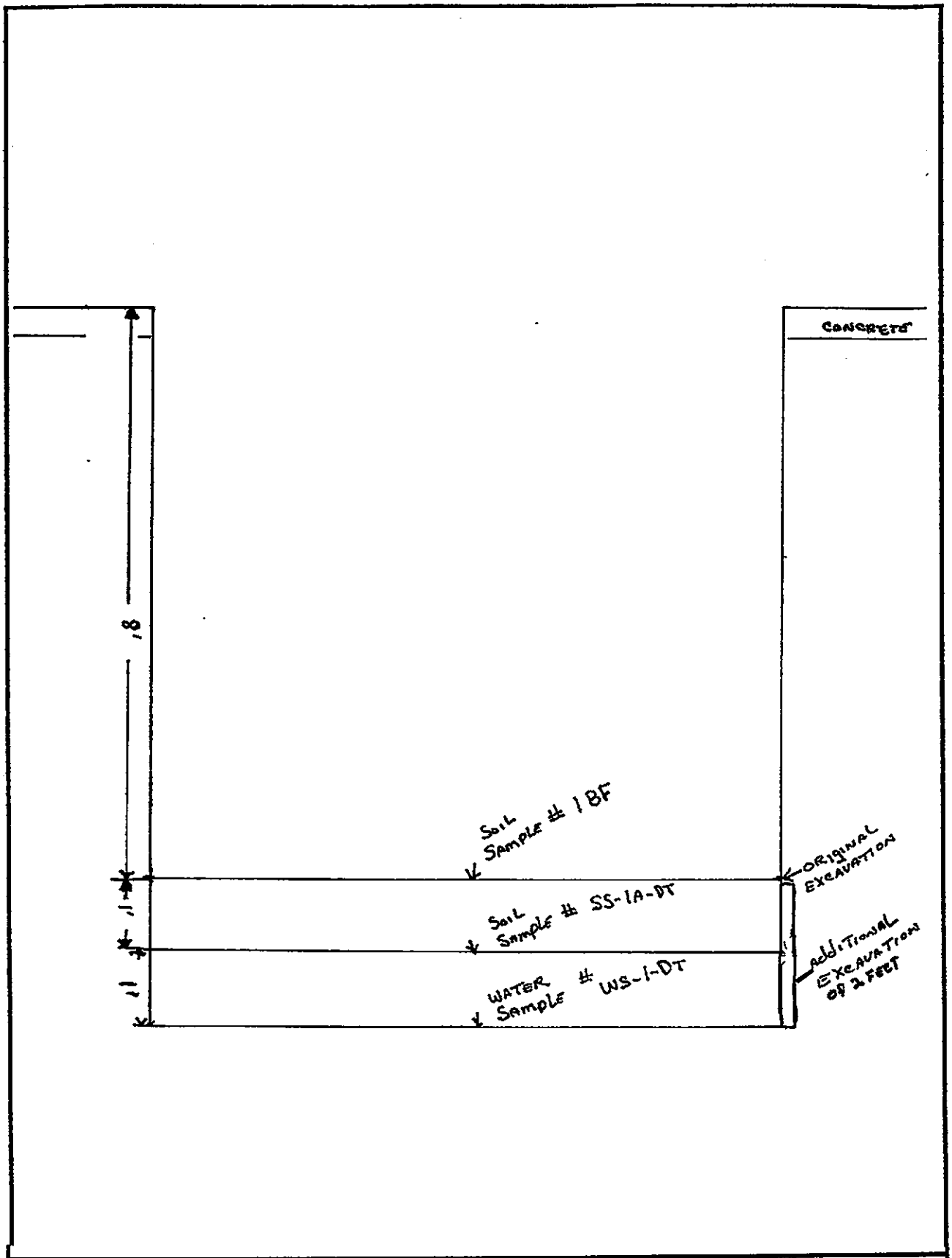
Date : 26 May 92

Figure 2

Project No. BRK-103

Drawn By PPK | Date 5/14/92

Drawing No. A0673102



BURLINGTON ENVIRONMENTAL INC.

SAMPLING PLAN
Downtown Toyota
4145 Broadway
Oakland, California

Figure 3

Project No. BRK-103

Drawn By PPK | Date 5/14/92

Reviewed By : JA | Date : 26 May 92

Drawing No. A0673103

Appendix A

PRECISION TANK AND LINE TESTING RESULTS SUMMARY

Associated Environmental Systems, Inc.

P.O. Box 80427
Bakersfield, CA 93380
(805) 393-2212

AES - SYSTEM II
PRECISION TANK & LINE TEST RESULTS SUMMARY

W.O.#: 15778

Invoice Address:

DOWNTOWN AUTO CENTER
4145 BROADWAY
OAKLAND, CA. 94611

Tank Location:

DOWNTOWN AUTO CENTER
4145 BROADWAY
OAKLAND, CA.

I.D. Number:
Technician: MRC
Tech.#: 89179 Van#: 0115

Date: 11-21-91 Time Start: 1300 End: 1600 County: AL
Facility Phone#: Groundwater Depth: 10+ Blue Prints: N/A
Contact: MIKE Date;Time system was filled: 11-11-91

Tank	Tank Capacity	Product	Tank	Fill/Vent Vapor Lines	Product Line	Type Of Vapor Recovery	Inches of Water/Tank	Pump Type	Tank Material
1	550	W/O	PASS	PASS	PASS	N/A	15"	N/A	S-W-S

Additional Information: SUNNY, MID. 60'S

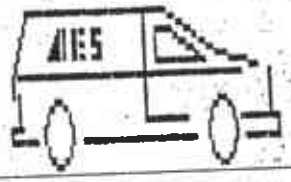
SITE LOG	TIME
Set Up Equip:	1300
Bled Product Lines:	N/A
Bled Vapor Lines:	N/A
Bled Vent lines:	N/A
Bled Turbine:	N/A
Bled Suction Pump:	N/A
Risers Installed:	N/A

a) This system and method meets the criteria set forth in NFPA #329.
b) Any failure listed above may require further action, check with all regulatory agencies.

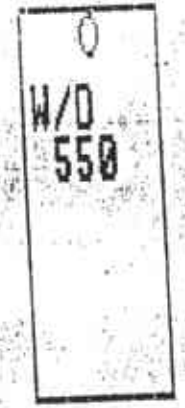
California O.T.T.L. Number : 92-1267

Signature :

Date : 11-21-9



VENT



Site Layout For : DOWNTOWN AUTO CENTER

Associated Environmental Systems, Inc.
P.O. Box [illegible] Bakersfield, CA 93389 (805) 393-0919

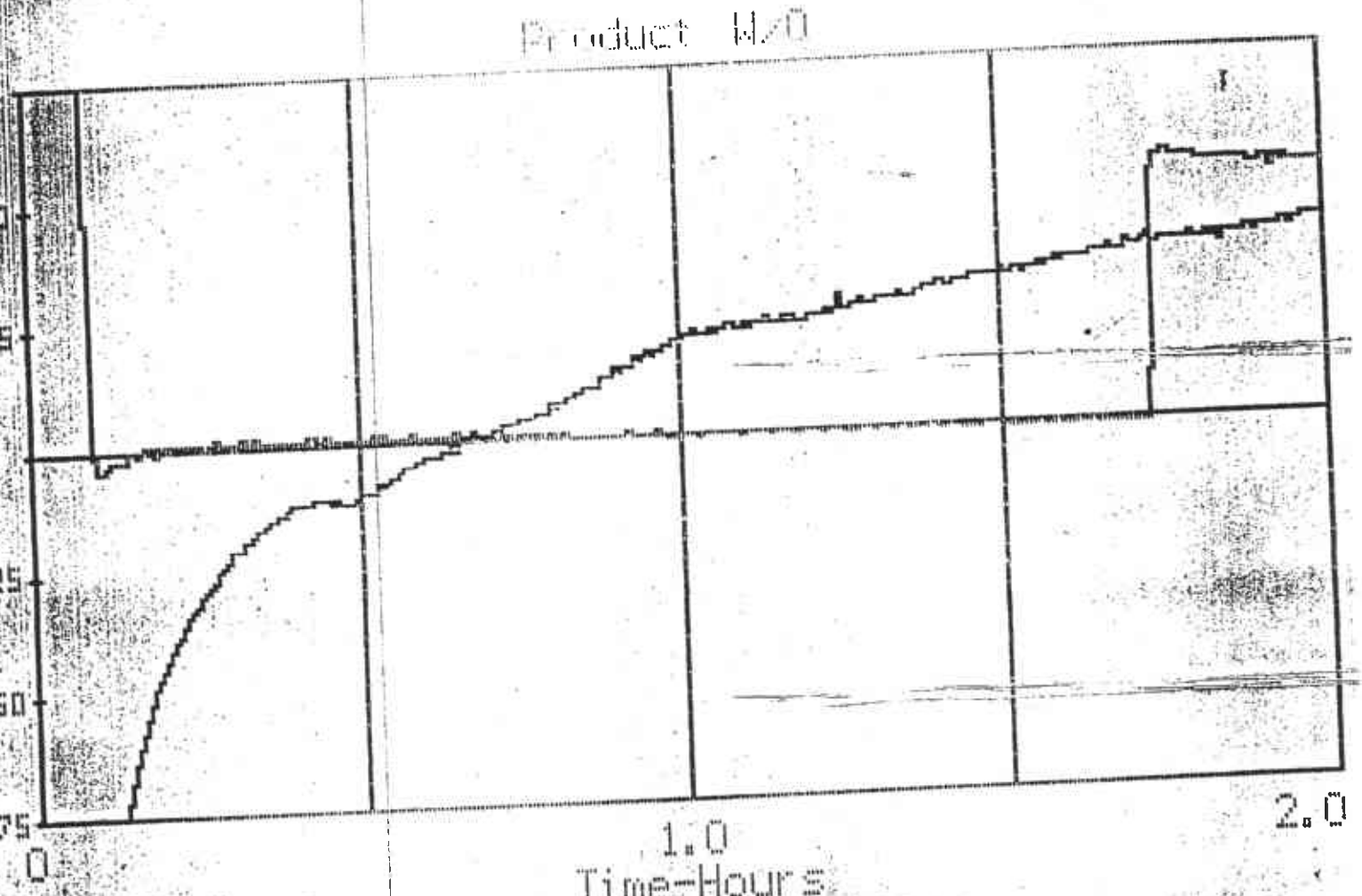
AES/System II Precision leak Test Graph

nvoice No.: 15778
echnician: MRC
olume(gal): 550
ater Level On Tank(in): 0
pecific Gravity: 0.89
alibration Value(ml): 190
evel Segment From: 50 To 225

Date: 11/21/91
Tank: 1
Grade Level(in): 80

Time : 14:04:44
Tank Diameter(in): 45
Product Level(in): 75

Coefficient Of Expansion: 0.0003345
Channel: 1
Temp Segment From: 200 To 300



Change In Calibration Zone = 55
Starting Temperature (F): 65.850
Surface Area(sq. in): 17.5

Calibration Unit(gal/unit) = 0.00090
Head Pressure(col/in (Btm)): 66.7
Temp. Change(F/h) : 0.040

Level volume(gph): 0.00
Temp. volume(gph): 0.00
Net change(gph) : 0.00

Product Line(gph):

Result ---> PASS

P/L ---> PASS

** Notes **

DOWNTOWN AUTO CENTER 4145 BROADWAY OAKLAND, CA.
THIS IS A HIGH LEVEL TEST WITH A 1X-CAL.
DRAIN LINES FLOODED AND INCLUDED IN TEST

Appendix B

RECOMMENDATION FOR CLOSURE WITHOUT SAMPLING ALONG UNDERGROUND PIPING

BURLINGTON
ENVIRONMENTAL

February 12, 1992
BRK102/357

Mr. Larry Seto
Alameda County Health Care Agency
Division of Hazardous Materials
Department of Environmental Health
80 Swan Way, Room 200
Oakland, California 94621

Re: **RECOMMENDATION FOR CLOSURE WITHOUT SAMPLING ALONG UNDERGROUND PIPING**
Downtown Toyota
4145 Broadway
Oakland, California 94662

Dear Mr. Seto:

Burlington Environmental (Burlington) recommends granting site closure to Downtown Toyota (owned by Berkeley Farms) located at 4145 Broadway, in Oakland, California, without sampling the soil beneath the underground piping associated with the 500-gallon used oil tank which was removed February 7, 1992. This recommendation is written in response to your request during tank removal operations at the above captioned site on Friday, February 7, 1992.

Burlington recommends that the underground product and vent lines associated with the 500-gallon used oil tank be abandoned in-place by rinsing the lines, filling the lines with a cement slurry, and capping the lines.

Berkeley Farms should be granted site closure on the piping without collecting samples beneath the piping for several reasons. (1) The tanks and the associated piping were precision tested by Associated Environmental Systems, Inc., on November 11, 1991. During the November 11 test, the 500-gallon tank, the product lines, and the vent lines were precision tested and the tank and associated piping passed the precision test. The test results are included in Appendix A. (2) The lines are located beneath a slab of concrete which is reinforced with rebar. The presence of the rebar in the concrete produces interference when attempting to locate the lines with a metal detector. The interference increases the potential for cutting the lines when coring through the concrete, and reduces the likelihood that soil samples will be collected from the correct location. (3) The depths of the lines range from 2 feet to approximately 6 feet below ground level. This large variance in depth combined with the interference from the rebar make the depth and location of the piping difficult to determine for sampling purposes.

In summary, Burlington recommends that the underground piping associated with the 500-gallon used oil tank be abandoned in-place by rinsing the lines, filling the lines with a cement slurry, and capping the lines, also that no soil samples are collected, for the reasons stated above.

If you have any questions regarding this recommendation, please do not hesitate to call me at (510) 524-9372.

Very truly yours,
BURLINGTON ENVIRONMENTAL

Jeff Allen
Field Supervisor

Enclosures: Appendix A - Precision Tank & Line Results Summary

cc: Mr. Ronald Madero, Berkeley Farms
4550 San Pablo Avenue
Emeryville, California 94662

KSF/ksf

Appendix C

TANK DISPOSAL DOCUMENTATION

State of California—Health and Welfare Agency
Form Approved OMB No. 2050—0039 (Expires 9-30-
Please print or type. (Form designed for use on eli pitch typewriter).

Department of Health Services
Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CAL 000 616 411 — Manifest Document No. 00888

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

3. Generator's Name and Mailing Address
BRADLEY FARM
P.O. BOX 5407
EMERYVILLE CA
4. Generator's Phone (510) 923-2644

A. State Manifest Document Number 89944916
B. State Generator's ID

5. Transporter 1 Company Name: CHEMICAL PROCESSORS — 6. US EPA ID Number: CAD 981 409 854
C. State Transporter's ID 20582
D. Transporter's Phone 415-524-9372

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
ERICSON INC
PARR BLVD
RICHMOND CA
10. US EPA ID Number: CAD 009 466 392
G. State Facility's ID CAD 009 466 392
H. Facility's Phone

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. NON-RCRA WASTE OIL TANK, USED OIL	001	TP	00500	P	State 512 / EPA/Other NON-F
b.					State / EPA/Other
c.					State / EPA/Other
d.					State / EPA/Other

J. Additional Descriptions for Materials Listed Above: TANK # 8081

K. Handling Codes for Wastes Listed Above: a. 01 b. c. d.

15. Special Handling Instructions and Additional Information

16. **GENERATOR'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 national government regulations.

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	Signature	Month	Day	Year
RON MILLER		10	16	92

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
CHARLES FICHTNER		10	20	92

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space
11.a) Waste Empty Storage Tank Non-RCRA Hazardous Waste Solid
G.) EPA ID # 7.1501

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
RONALD H. RICCIO		10	16	92

GENERATOR — TRANSPORTER — FACILITY

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

DHS 8022 A (1/88)
EPA 8700—22
(Rev. 9-88) Previous editions are obsolete.

Do Not Write Below This Line

YELLOW: GENERATOR RETAINS

DAY OR NIGHT
. TELEPHONE
(510) 235-1393

CERTIFICATE

CERTIFIED SERVICES COMPANY

255 Parr Boulevard • Richmond, California 94801

NO. 11943

CUSTOMER BURLINGTON ENVI

JOB NO. 77715

FOR: Erickson, Inc. TANK NO. 8081

LOCATION: Richmond DATE: 02/07/92 TIME: 12:36:45

TEST METHOD Visual Gastech/1314 SMPN LAST PRODUCT UO

This is to certify that I have personally determined that this tank is in accordance with the American Petroleum Institute and have found the condition to be in accordance with its assigned designation. This certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

TANK SIZE 500 Gallon Tank CONDITION SAFE FOR FIRE

REMARKS: OXYGEN 20.9%

LOWER EXPLOSIVE LIMIT LESS THAN 0.1%

"ERICKSON INC. HEREBY CERTIFIES THAT THE ABOVE NUMBERED TANK HAS BEEN CUT OPEN, PROCESSED, AND THEREFORE DESTROYED AT OUR PERMITTED HAZARDOUS WASTE FACILITY."

In the event of any physical or atmospheric changes affecting the gas-free conditions of the above tanks, or if in any doubt, immediately stop all hot work and contact the undersigned. This permit is valid for 24 hours if no physical or atmospheric changes occur.

STANDARD SAFETY DESIGNATION

SAFE FOR MEN: Means that in the compartment or space so designated (a) The oxygen content of the atmosphere is at least 19.5 percent by volume; and that (b) Toxic materials in the atmosphere are within permissable concentrations; and (c) In the judgment of the Inspector, the residues are not capable of producing toxic materials under existing atmospheric conditions while maintained as directed on the Inspector's certificate.

SAFE FOR FIRE: Means that in the compartment so designated (a) The concentration of flammable materials in the atmosphere is below 10 percent of the lower explosive limit; and that (b) In the judgment of the Inspector, the residues are not capable of producing a higher concentration that permitted under existing atmospheric conditions in the presence of fire and while maintained as directed on the Inspector's certificate, and further, (c) All adjacent spaces have either been cleaned sufficiently to prevent the spread of fire, are satisfactorily inerted, or in the case of fuel tanks, have been treated as deemed necessary by the Inspector.

The undersigned representative acknowledges receipt of this certificate and understands the conditions and limitations under which it was issued.

K Hughes — DR

REPRESENTATIVE TITLE INSPECTOR

CP599

Appendix D

CERTIFIED ANALYTICAL RESULTS
AND CHAIN-OF-CUSTODY FORMS

February 12, 1992
Sample Log 3917

Jeff Allen
Burlington Environmental Inc. - Chempro Div.
950 B Gilman Street
Berkeley, CA 94710

Subject: Analytical Results for 1 Soil Sample
Identified as: Project # 339 (Berkeley Farms)
Received: 02/07/92

Dear Mr. Allen:

Analysis of the sample(s) referenced above has been completed. This report is written to confirm results communicated on February 11, 1992 and describes procedures used to analyze the samples.

Sample(s) were received in brass sleeves that were sealed with PTFE sheets and plastic endcaps. Each sample was transported and received under documented chain of custody and stored at 4 degrees C until analysis was performed.

Sample(s) were analyzed using the following method(s):

"BTEX" (EPA Method 8020/Purge-and-Trap)
"TPH as Gasoline" (Modified EPA Method 8015/Purge-and-Trap)
"TPH as Diesel,Motor Oil,Jet/Kerosene" (Mod. 8015/Extraction)
"Metals by Atomic Absorption" (EPA Method 7000)
"Oil and Grease" (ASTM Method 5520 E,F)
"Volatile Organic Priority Pollutants" (EPA Method 8240)
"Total Lead" (EPA 7420-Atomic Absorption)

Please refer to the following table(s) for summarized analytical results and contact us at 916-757-4650 if you have questions regarding procedures or results. The chain-of-custody document is enclosed.

Approved by:

Joel Kiff
Senior Chemist

Western Environmental
Science & Technology
1046 Olive Drive, Suite 3
Davis, CA 95616
916 753-9500

February 12, 1992
Sample Log 3917

Sample: 1BF

From : Project # 339 (Berkeley Farms)
Sampled : 02/07/92
Received : 02/07/92
Matrix : Soil

--all concentrations are units of mg/kg--

Parameter / (Reporting Limit)		Measured Value
Benzene	(.05)	<.05 *
Toluene	(.05)	<.05 *
Ethylbenzene	(.05)	<.05 *
Total Xylenes	(.05)	<.5 *
TPH as Gasoline	(.5)	130 **
Extractable TPH	(10)	Diesel : <50 *
		Motor Oil : 900
Cadmium	(0.5)	-----
Chromium	(1.0)	-----
Lead	(5.0)	20
Zinc	(0.5)	81
Nickel	(1.0)	37
Oil & Grease	(50)	630

* Increased reportimg limit due to interference from Stoddard Solvent.
** Product is Stoddard Solvent.

Western Environmental
Science & Technology
1046 Olive Drive, Suite 3
Davis, CA 95616
916 753-9500

February 12, 1992
Sample Log 3917

Sample: 1BF
From : Project # 339 (Berkeley Farms) Received 02/07/92 Matrix : Soil
8240 - Volatile Organic Priority Pollutants(units are mg/kg)

Parameter /	(Reporting Limit)	Measured Value
Chloromethane	(0.10)	<0.10
Bromomethane	(0.10)	<0.10
cis-1,2-Dichloroethene	(0.01)	<0.01
trans-1,2-Dichloroethene	(0.01)	<0.01
Trichlorofluoromethane	(0.01)	<0.01
Vinyl Chloride	(0.10)	<0.10
Chloroethane	(0.10)	<0.10
Methylene Chloride	(0.01)	<0.01
Acetone	(0.10)	<0.10
Carbon Disulfide	(0.01)	<0.01
1,1-Dichloroethene	(0.01)	<0.01
1,1-Dichloroethane	(0.01)	<0.01
Chloroform	(0.01)	<0.01
1,2-Dichloroethane	(0.01)	<0.01
2-Butanone	(0.10)	<0.10
1,2-Dibromoethane	(0.01)	<0.01
1,1,1-Trichloroethane	(0.01)	<0.01
Carbon Tetrachloride	(0.01)	<0.01
Vinyl Acetate	(0.10)	<0.10
Bromodichloromethane	(0.01)	<0.01
1,2-Dichloropropane	(0.01)	<0.01
cis-1,3-Dichloropropene	(0.01)	<0.01
Trichloroethene	(0.01)	<0.01
Dibromochloromethane	(0.01)	<0.01
1,1,2-Trichloroethane	(0.01)	<0.01
Benzene	(0.01)	<0.01
trans-1,3-Dichloropropene	(0.01)	<0.01
Bromoform	(0.01)	<0.01
4-Methyl-2-Pentanone	(0.10)	<0.10
4-Chlorotoluene	(0.01)	<0.01
2-Chlorotoluene	(0.01)	<0.01
1,3-Dichlorobenzene	(0.01)	<0.01
1,2-Dichlorobenzene	(0.01)	<0.01
1,4-Dichlorobenzene	(0.01)	<0.01
2-Hexanone	(0.10)	<0.10
Tetrachloroethene	(0.01)	<0.01
1,1,2,2-Tetrachloroethane	(0.01)	<0.01
Toluene	(0.01)	<0.01
Chlorobenzene	(0.01)	<0.01
Ethylbenzene	**(0.01)**	**.042**
Styrene	(0.01)	<0.01
P,M-Xylene	**(0.01)**	**.15**
O-Xylene	**(0.01)**	**.080**

Western Environmental Science & Technology
1046 Olive Drive, Suite 3
Davis, CA 95616
916 753-9500

WEST
Western Environmental Science & Technology
1046 Olive Drive, Suite 3
Davis, CA 95616
916-753-9500
FAX #: 916-753-6091

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Burlington Env., Jeff Allen
Phone #: 510 (524-9372)
Address: 950-B Gilman St., Berk
FAX #: 510(524-9439)
Project Number: #339
Project Name: Berkeley Farms
Project Location: 4145 Broadway, Oakland
Sampler Signature:

Sample ID	Lab # (Lab use only)	# CONTAINERS	Volume/Amount	Matrix: WATER	SOIL	AIR	SLUDGE	OTHER	Method Preserved: HCl	HNO_3	ICE	NONE	OTHER	Sampling: DATE	TIME	BTEX (602/8020)	BTEX/TPH as Gasoline (602/8020/8015)	TPH as Diesel (8015 or 8270)	TPH as Jetfuel (8015 or 8270)	Total Oil & Grease (413.1)	~~Total Oil & Grease (413.2)~~	Total Petroleum Hydrocarbons (418.1)	EPA 601/8010	EPA 602/8020	EPA 608/8080	EPA 608/8080-PCBs Only	EPA 624/8240	EPA 625/8270	CAM - 17 Metals	Waste Extraction Test (WET)	EPA - Priority Pollutant Metals	LEAD(7420/7421/239.2)	ORGANIC LEAD	OTHER	RUSH SERVICE (12 hr) or (24 hr)	EXPEDITED SERVICE (48 hr) or (1 wk)	VERBALS/FAX	SPECIAL DETECTION LIMITS (SPECIFY)	SPECIAL REPORTING REQUIREMENTS
1BF		1			X						XX			2-7-92	1330		✓						✓										Lead/Zinc/Nickel AA						

Relinquished by:	Date	Time	Received by:
	2-6-92	1514	
Relinquished by	Date	Time	Received by:
Relinquished by	Date	Time	Received by Laboratory:

Remarks:

April 30, 1992
Sample Log 4265

Jeff Allen
Burlington Environmental Inc. - Chempro Div.
950 B Gilman Street
Berkeley, CA 94710

Subject: Analytical Results for 1 Water Sample and 1 Soil Sample
Identified as: Project # 339 (Berkeley Farms)
Received: 04/16/92
Purchase Order: 19369

Dear Mr. Allen:

Analysis of the sample(s) referenced above has been completed. This report is written to confirm results communicated on April 30, 1992 and describes procedures used to analyze the samples.

Samples were received in 40-mL glass vials sealed with TFE lined septae, 1-L glass bottles sealed with TFE-lined caps, and brass sleeves sealed with PTFE sheets and endcaps. Each sample was received under documented chain of custody and stored at 4 degrees C until analysis was performed.

Sample(s) were analyzed using the following method(s):

"BTEX" (EPA Method 8020/Purge-and-Trap)
"BTEX" (EPA Method 602/Purge-and-Trap)
"TPH as Gasoline" (Modified EPA Method 8015/Purge-and-Trap)
"TPH as Diesel,Motor Oil,Jet/Kerosene" (Mod. 8015/Extraction)

Please refer to the following table(s) for summarized analytical results and contact us at 916-757-4650 if you have questions regarding procedures or results. The chain-of-custody document is enclosed.

Approved by:

Joel Kiff
Senior Chemist

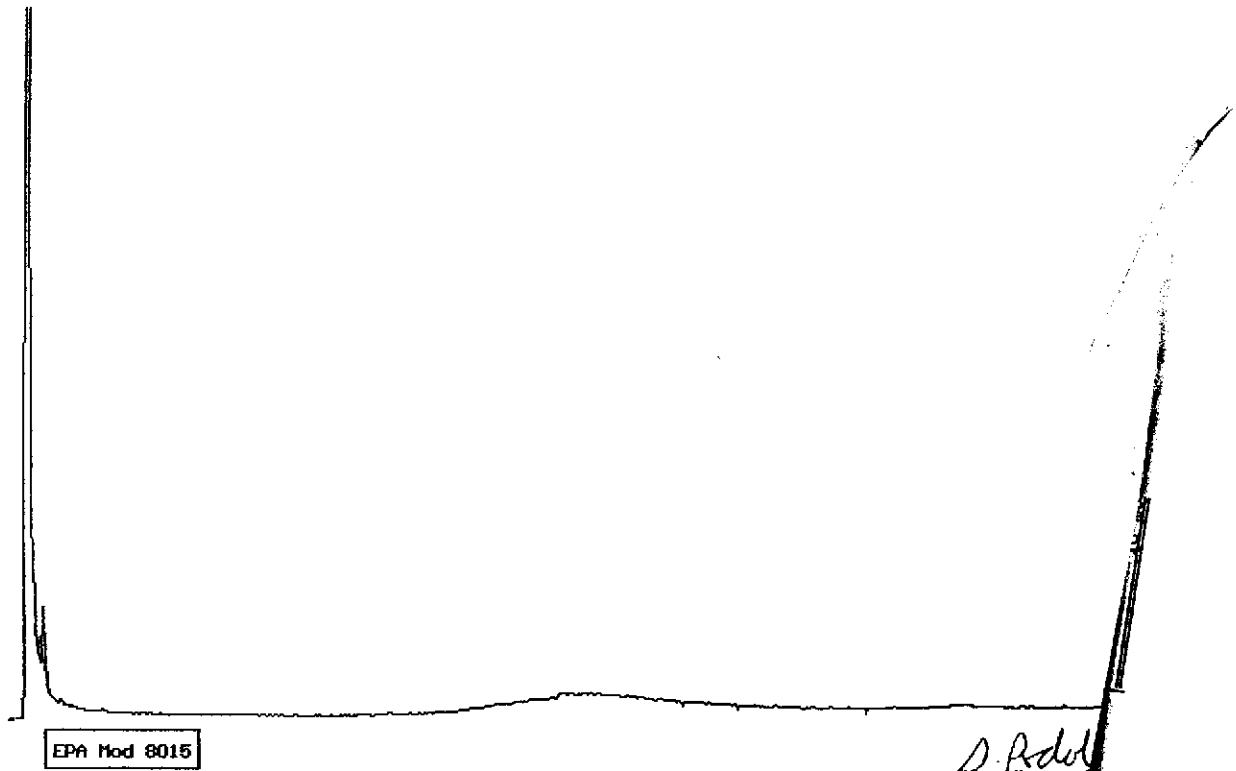
Sample Log 4265

4265-1

Sample: SS-1A-DT

From : Project # 339 (Berkeley Farms)
Sampled : 04/15/92
Extracted: 04/27/92
Dilution : 1:1 QC Batch : 7053F
Matrix : Soil

Parameter	(MDL) mg/kg	Measured Value mg/kg
TPH as Diesel	(10)	<10
TPH as Motor Oil	(10)	<10



EPA Mod 8015

Date: 04-27-92 Time: 22:31:42
Column : 0.53mm ID X 15m DB1 (J&W Scientific)

Steuart Pod
Senior Che

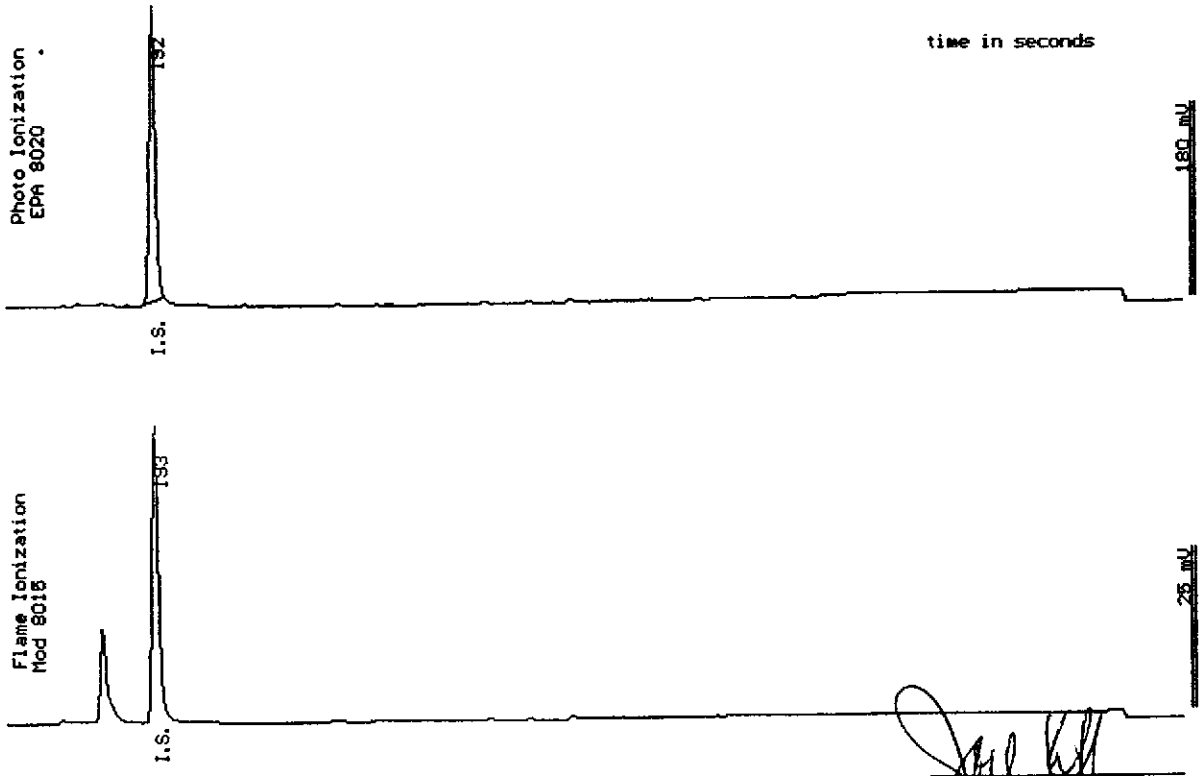
Sample Log 4265

4265-1

Sample: SS-1A-DT

From : Project # 339 (Berkeley Farms)
Sampled : 04/15/92
Dilution : 1:1 QC Batch : 4032A
Matrix : Soil

Parameter	(MDL) ug/kg	Measured Value ug/kg
Benzene	(.0050)	<.0050
Toluene	(.0050)	<.0050
Ethylbenzene	(.0050)	<.0050
Total Xylenes	(.0050)	<.0050
TPH as Gasoline	(.50)	<.50



Date Analyzed: 04-28-92
Column : 0.53mm ID X 30m DBWAX (J&W Scientific)

Joel Kiff
Senior Chemist

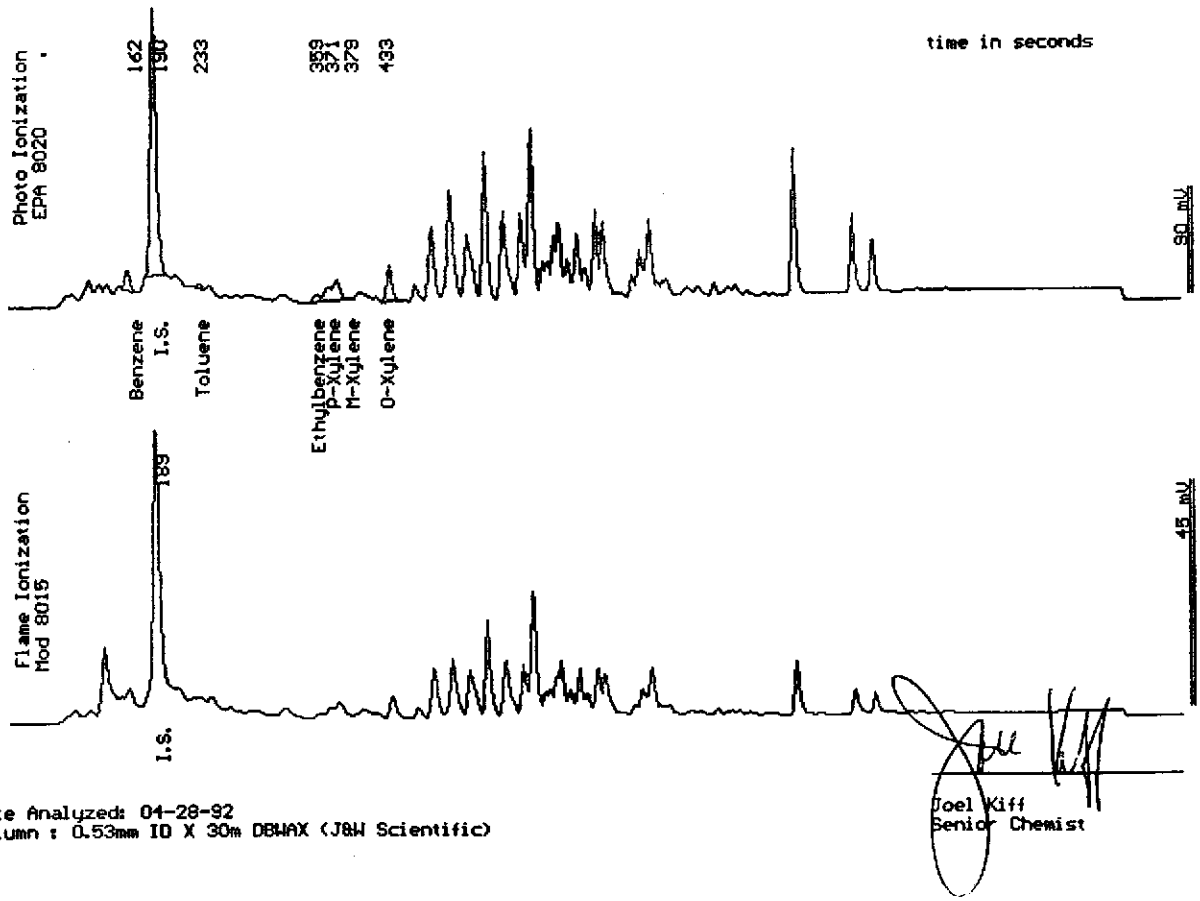
Sample Log 4265

4265-2

Sample: **WS-1-DT**

From : Project # 339 (Berkeley Farms)
Sampled : 04/15/92
Dilution : 1:1 QC Batch : 4032A
Matrix : **Water**

Parameter	(MDL) ug/L	Measured Value ug/L
Benzene	(.50)	.87
Toluene	(.50)	<.50
Ethylbenzene	(.50)	.55
Total Xylenes	(.50)	4.2
TPH as Gasoline	(50)	480



Date Analyzed: 04-28-92
Column : 0.53mm ID X 30m DBWAX (J&W Scientific)

Joel Kiff
Senior Chemist

Appendix E

SOIL DISPOSAL DOCUMENTATION

BFI Waste Systems™
BROWNING-FERRIS INDUSTRIES

No. 729352

NON-HAZARDOUS SPECIAL WASTE MANIFEST

GENERATOR

Generator Name: PATTERSON RANCH INC. Generating Location: 4145 BROADWAY

Address: 4550 San Pablo Ave Address: OAKLAND CA 94611

Emeryville, CA 94608

Phone No. 510 420 5636 Phone No. 510 547 4635

BFI Waste Code: A 405 041692 203388

Description of Waste: SOIL CONTAMINATED WITH WASTE OIL

Quantity	Units	Containers: No.	Type
5	CY	1	T

Type: D - Drum, C - Carton, B - Bag, T - Truck, P - Pounds, Y - Yards, O - Other

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, 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.

NORMAN ROBERTS — Generator Authorized Agent Name

Signature

4/17/92 — Shipment Date

TRANSPORTER

Truck No. 502 Phone No. 510-524-9772

Transporter Name FULLINGTON ENVIRONMENTAL Driver Name (Print) J. WILLIAMSON

Address 1000 E GILMAN ST Vehicle License No./State 4457855

Pittsburg CA Vehicle Certification 205321

I hereby certify that the above named material was picked up at the generator site listed above.

Driver Signature — 04/17/92 Shipment Date

I hereby certify that the above named material was delivered without incident to the destination listed below.

Driver Signature — 04/17/92 Delivery Date

DESTINATION

Site Name BFI Phone No. 510-441-7411

Address 4001 NAVY RD. LIVERMORE CA 94550

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

Name of Authorized Agent — Signature — 4/17/92 Receipt Date

PASS CODE

10/86

BFI260-7

GENERATOR RETAIN