

October 2, 1991

THRIFTY OIL CO.

91 OCT -0 PM 1:54

Mr. Scott O. Seary
Alameda County
Department of Environmental Health
Hazardous Materials Program
80 Swan Way, Room 200
Oakland, California 94621

RE: Thrifty Oil Co. Station #054
2504 Castro Valley Boulevard
Castro Valley, California
2nd. QUARTER REPORT, 1991

Dear Mr. Seary,

This letter report presents the results of soil/groundwater treatment and site monitoring during the **2nd. quarter of 1991 at the subject site**. A vicinity map is presented as Figure 1. The approximate location of the on-site monitoring wells are shown on Figure 2. During the 2nd. Quarter of 1991, Remediation Services Intl. (RSI) operated and maintained the soil/groundwater treatment unit (RSI-SAVE system) and site monitoring was conducted by Earth Management Co. (EMC). Nevertheless, during the monthly site visits by EMC, a technician inspected the treatment unit and recorded any pertinent data.

Treatment Unit Operation

Based on the data obtained by EMC, the RSI-SAVE unit has operated a total of 3192 hours with about 1000 hours of operation during the reporting period. The tachometer was replaced by RSI in April after it had logged a total of about 2200 hours. In addition, a total of about 1947 gallons of water has been processed by the unit and discharged to the local sanitary sewer.

Site Monitoring and Sample Collection

With the exception of April, due to the transition of work from Dames & Moore to EMC, the site was visited once a month by an EMC technician in order to gauge the wells and collected groundwater samples. Water levels were measured in each well from the rim of well cover using a Marine Moisture Tape (nearest 0.01 feet) capable of also measuring the presence of free floating hydrocarbons. Depth to water ranged from about 3.75 to 11.70 feet below grade. Six of the Nine wells exhibited free floating product that was measurable only as a sheen or film. The depth to water data was used in conjunction with the recent survey data to determine groundwater elevations across the site. The interpretations of groundwater flow across the site during the reporting period are depicted on Figures 3, 4 and 5. In general the groundwater flow was to the east-northeast with significant depressions near wells RE-4 and RE-7, currently used for groundwater recovery.



Prior to collecting groundwater samples from the wells that did not exhibit free floating hydrocarbons, about 4 well volumes of groundwater was removed using a PVC bailer. During the purging process, the pH, conductivity and temperature were checked and recorded to insure formation water was entering the well to be sampled. About 20 to 40 gallons of water were removed from each well and stored in 55 gallon D.O.T approved drums pending disposal. Groundwater samples were collected with disposal bailers. Samples were maintained and transported in 40 milliliter vials placed on ice pending delivery to Smith-Emery Laboratory, a state certified analytical laboratory headquartered in Los Angeles. Field monitoring sheets prepared by EMC personnel are included in Appendix A.

Analytical Results

Groundwater samples were analyzed for total hydrocarbons (TPH) and volatile aromatic compounds (BETX) using EPA methods 8015 and 8020, respectively. Copies of the laboratory analysis reports are attached in Appendix B. A summary of the results are presented in Table 1 below. In addition, iso-concentration maps of TPH for each sampling event are presented as Figures 6 and 7.

Table 1 Summary of Analytical Results 2nd. Quarter 1991						
ID	Date	TPH	Benzene	Toluene	Ethyl- Benzene	Xylenes
PW-1	5/22/91	41000	600	730	250	3800
	6/19/91	NA	NA	NA	NA	NA
PW-2	5/22/91	14000	57	51	10	480
	6/19/91	NA	NA	NA	NA	NA
RE-1	5/22/91	85000	8700	10000	1800	12000
	6/19/91	110000	8500	9600	2600	16000
RE-2	5/22/91	1000	5.3	3.6	4.4	8.9
	6/19/91	700	2.1	1.4	3.8	3.5
RE-5	5/22/91	2500	330	7.8	5.6	200
	6/19/91	2000	59	1.6	5.1	110
RE-6	5/22/91	8500	1700	14	24	6.7
	6/19/91	NA	NA	NA	NA	NA
Results reported in micrograms per liter (ug/L)						
NA - Not Analyzed.						
TPH - Total Petroleum Hydrocarbons as gasoline.						

FP

FP

FP

RE-3.0

Closing

Thrifty will continue to monitor groundwater at the site on a monthly basis for the remainder of 1991 at which time the data will be evaluated and, if appropriate, sampling on a quarterly basis will be requested. The 3rd. and 4th. quarter reports will include information from recently installed off-property wells. If you have any questions please contact me or Mr. Karl Kerner at (213) 923-9876.

Very truly yours,

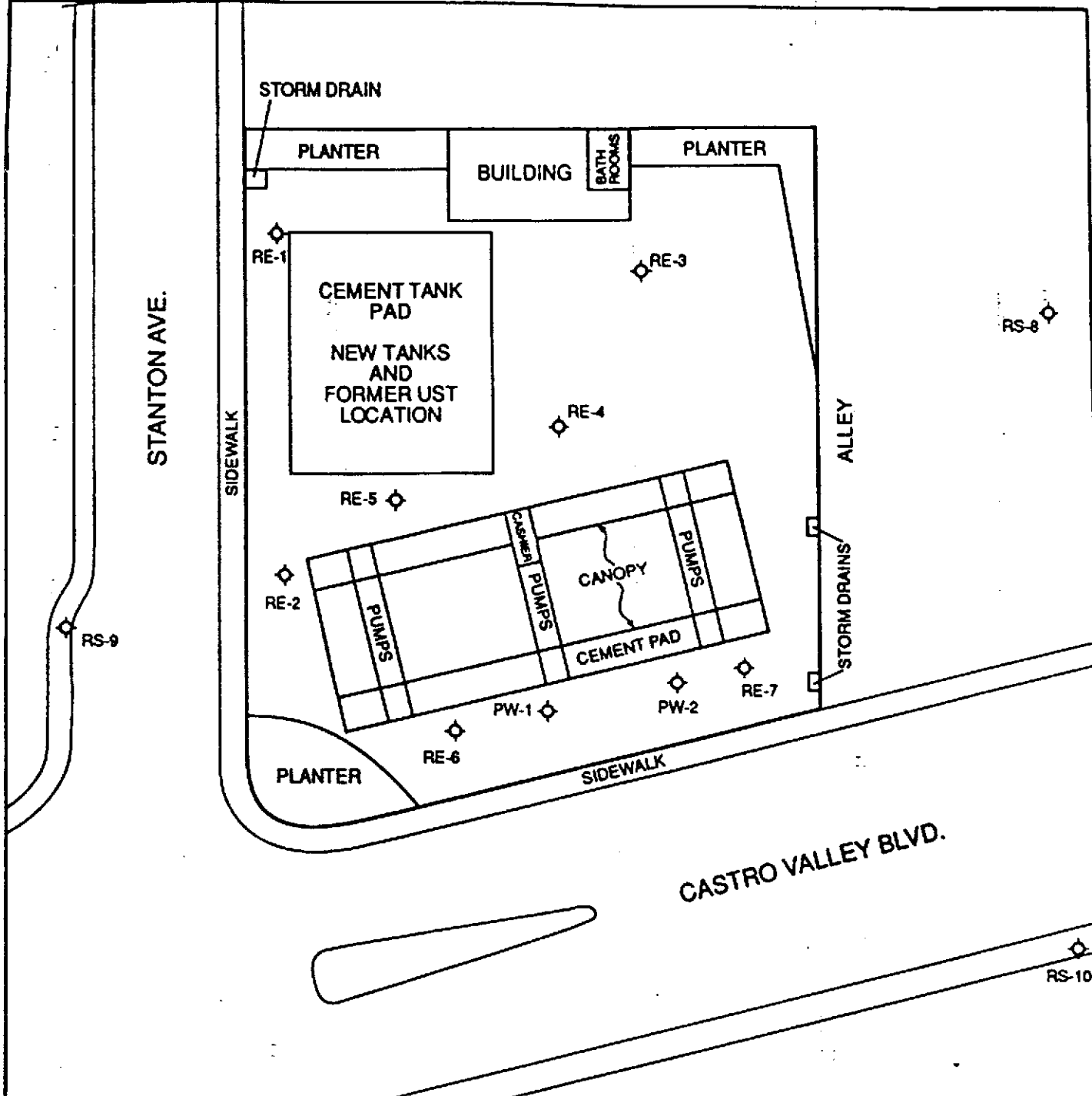
A handwritten signature in cursive script that reads "Peter D'Amico".

Peter D'Amico
Manager
Environmental Affairs

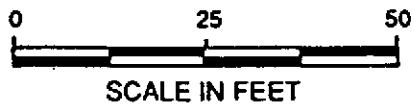
FIGURES



21161-002-044	THRIFTY OIL STORE #054	VICINITY MAP
DAMES & MOORE	2504 CASTRO VALLEY BLVD CASTRO VALLEY, CA	



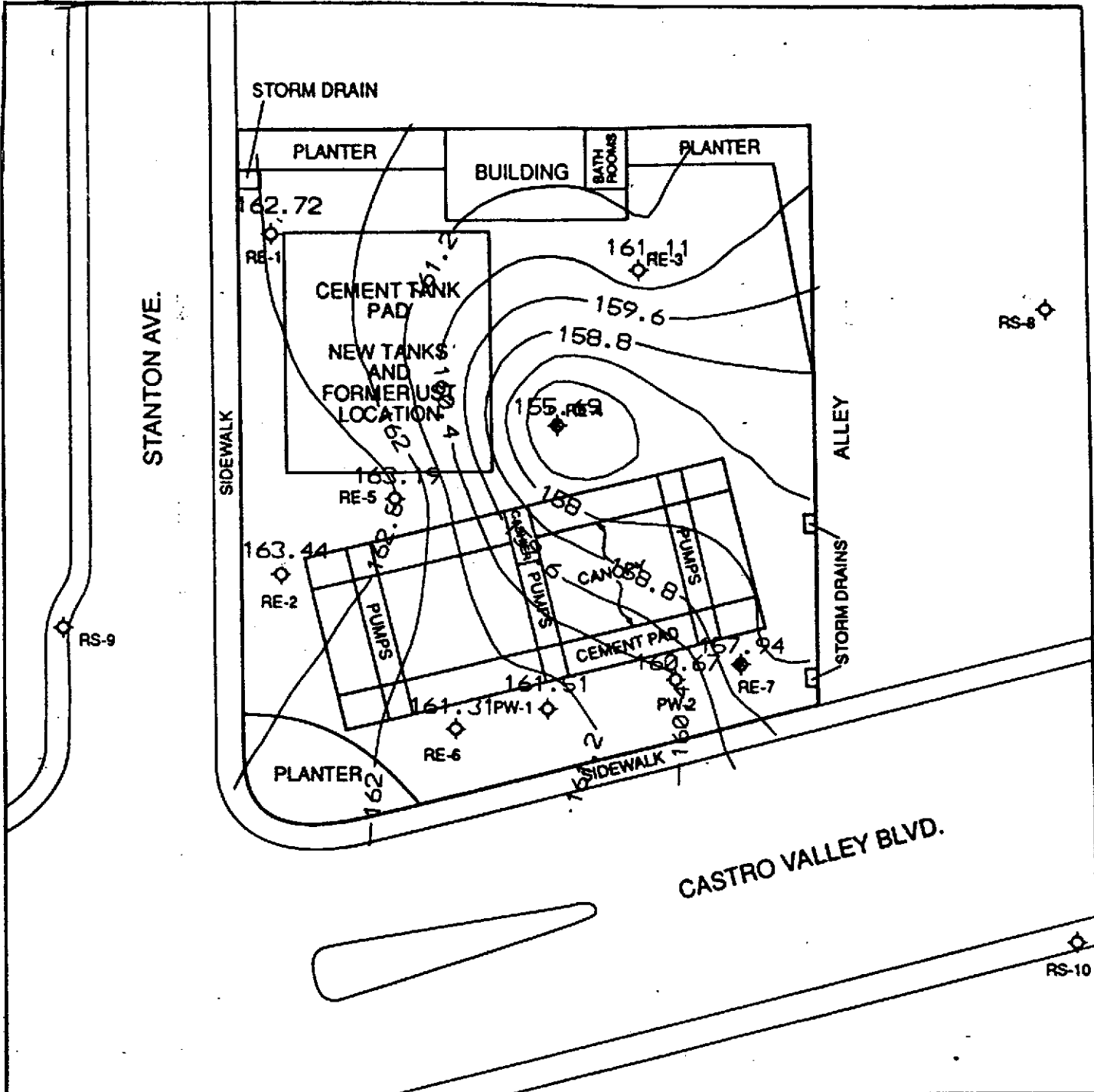
SITE PLAN II
THRIFTY OIL CO. #054
CASTRO VALLEY, CALIFORNIA
 Prepared for
THRIFTY OIL CO.
DOWNEY, CALIFORNIA



◊ EXISTING MONITORING WELL

(FIGURE 2)





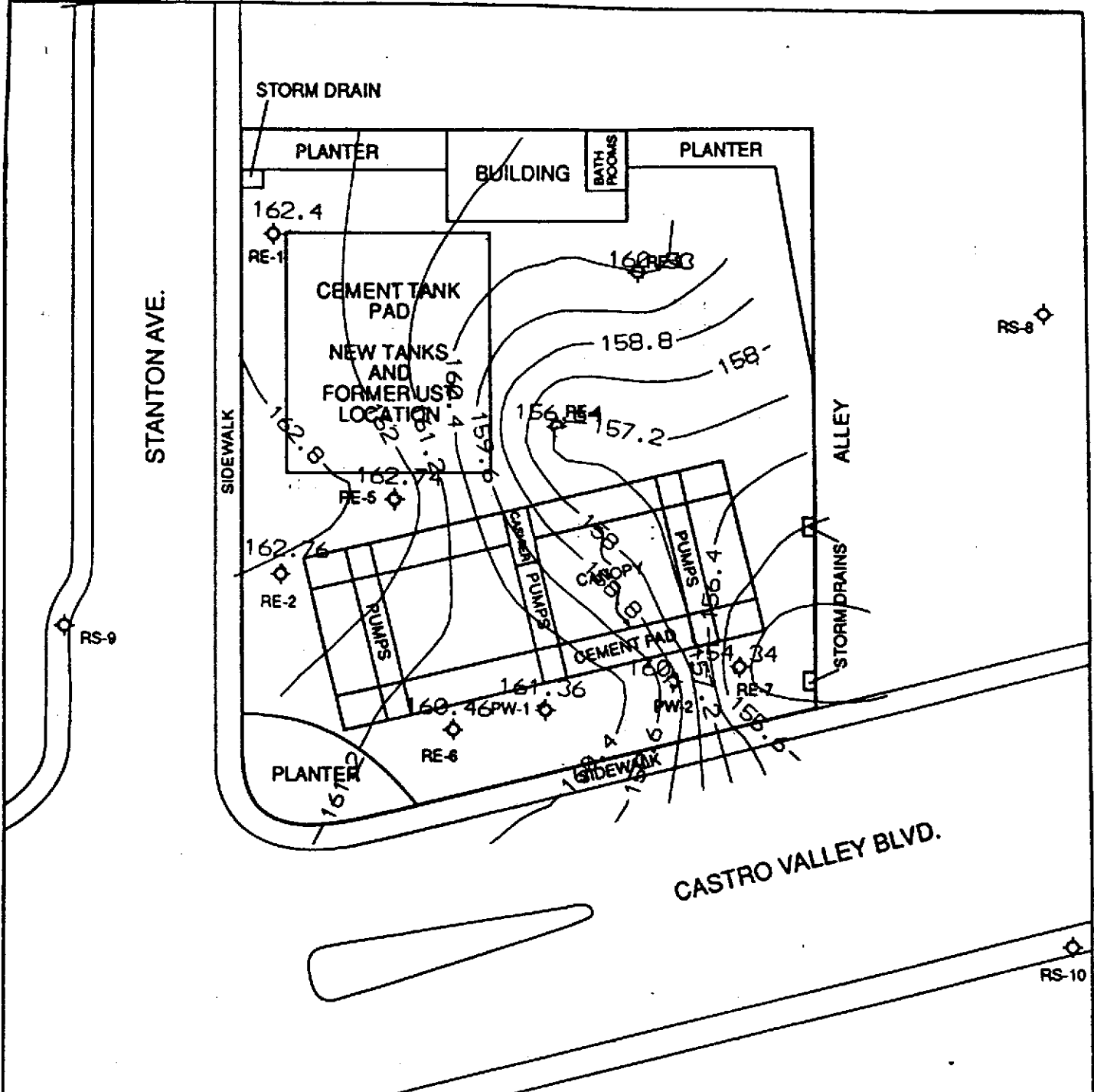
SITE PLAN II
THRIFTY OIL CO. #054
CASTRO VALLEY, CALIFORNIA
 Prepared for
THRIFTY OIL CO.
DOWNEY, CALIFORNIA



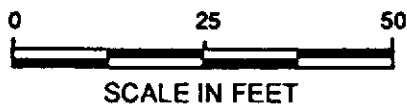
- (/) GROUNDWATER CONTOUR (4-3-91)
- ◇ EXISTING MONITORING WELL

FIGURE 3





SITE PLAN II
THRIFTY OIL CO. #054
CASTRO VALLEY, CALIFORNIA
 Prepared for
THRIFTY OIL CO.
DOWNEY, CALIFORNIA



/ GROUNDWATER
 CONTOUR (5-22-91)
 ◊ EXISTING MONITORING WELL

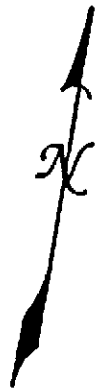
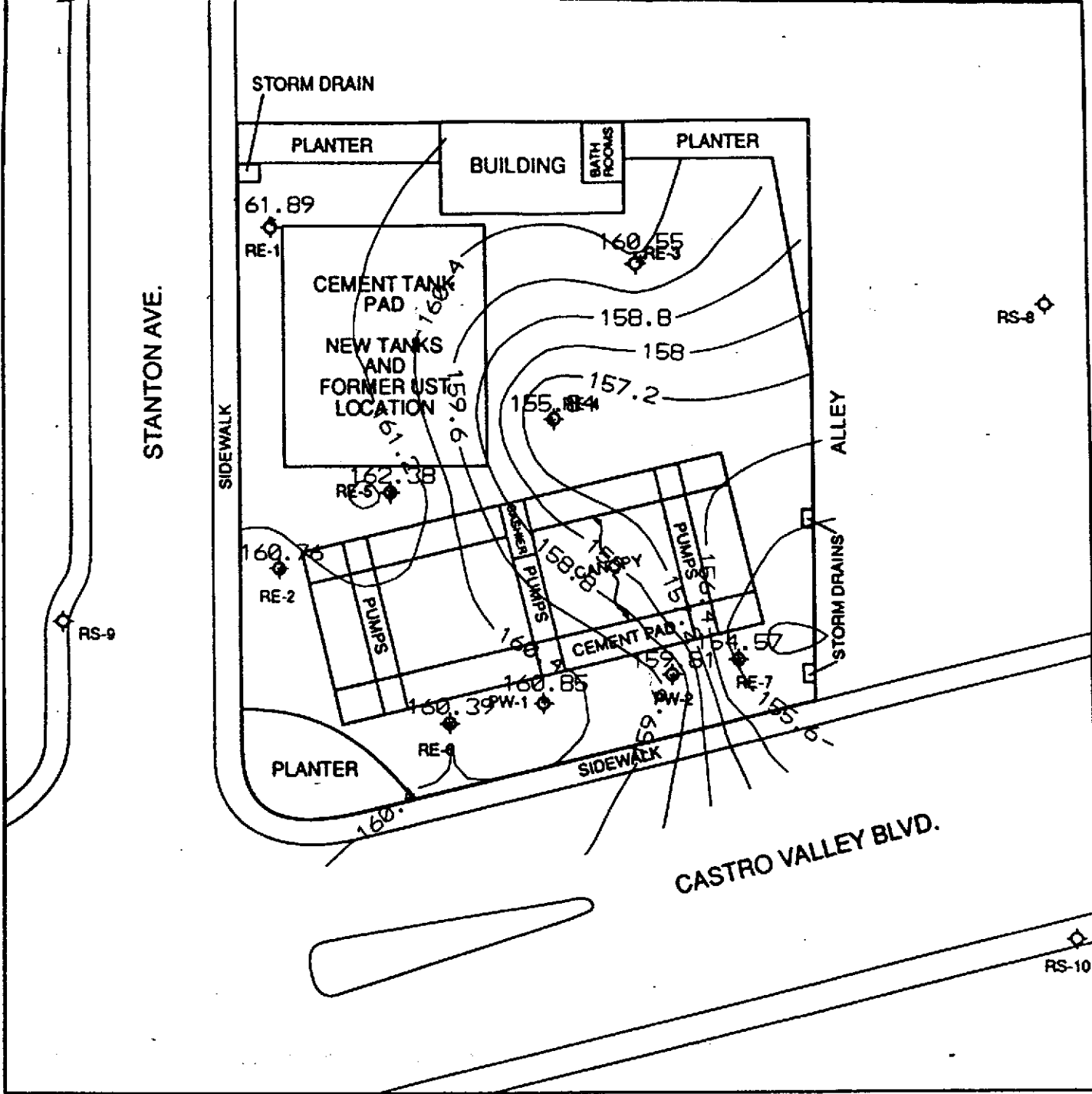
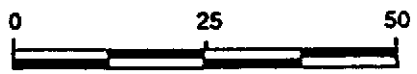


FIGURE 4





SITE PLAN II
THRIFTY OIL CO. #054
CASTRO VALLEY, CALIFORNIA
 Prepared for
THRIFTY OIL CO.
DOWNEY, CALIFORNIA



SCALE IN FEET

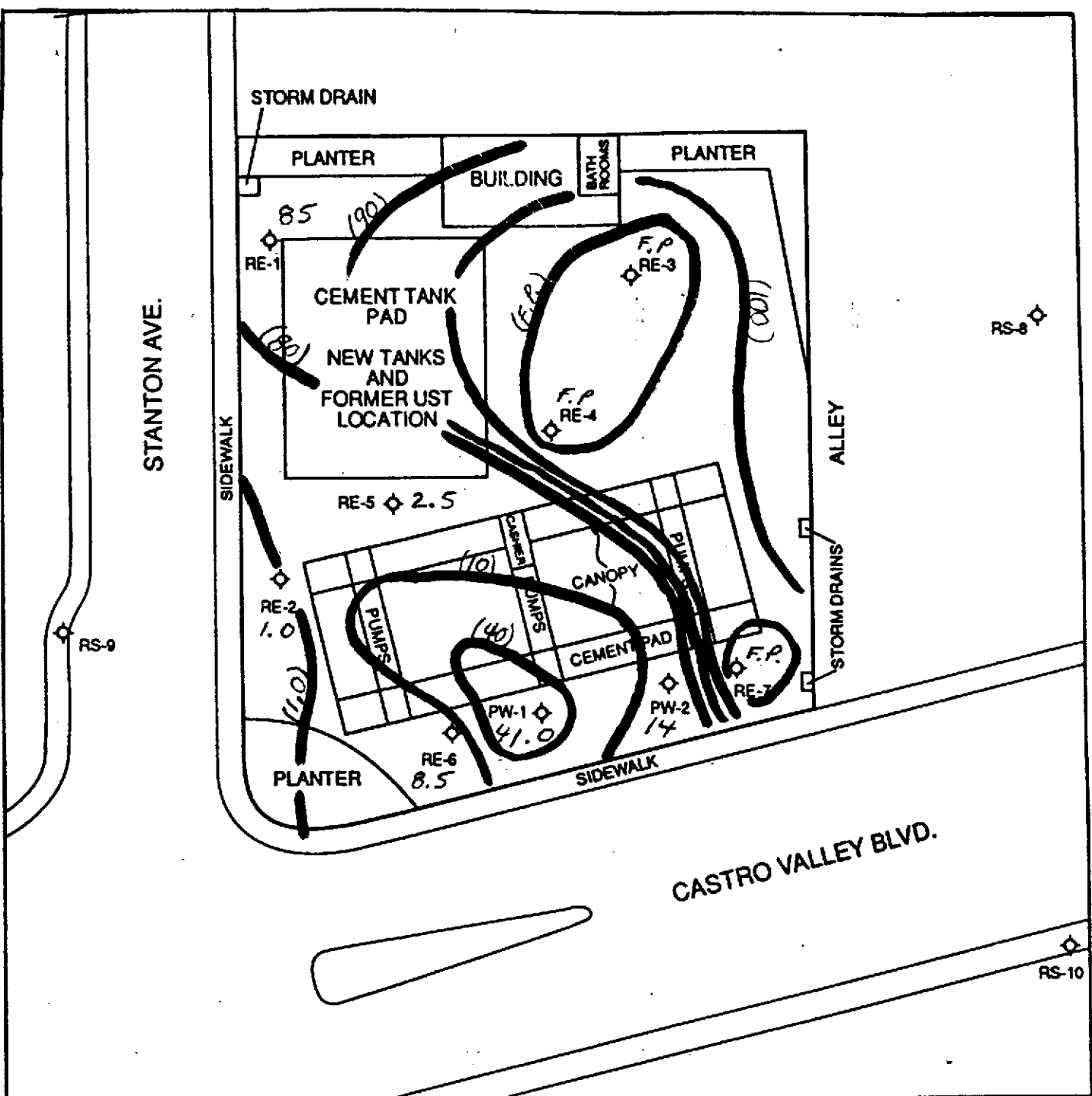
(GROUNDWATER CONTOUR 6/19/91)

◊ EXISTING MONITORING WELL

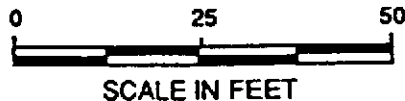


FIGURE 5





SITE PLAN II
THRIFTY OIL CO. #054
CASTRO VALLEY, CALIFORNIA
 Prepared for
THRIFTY OIL CO.
DOWNEY, CALIFORNIA



F.P. - Film or Sheen

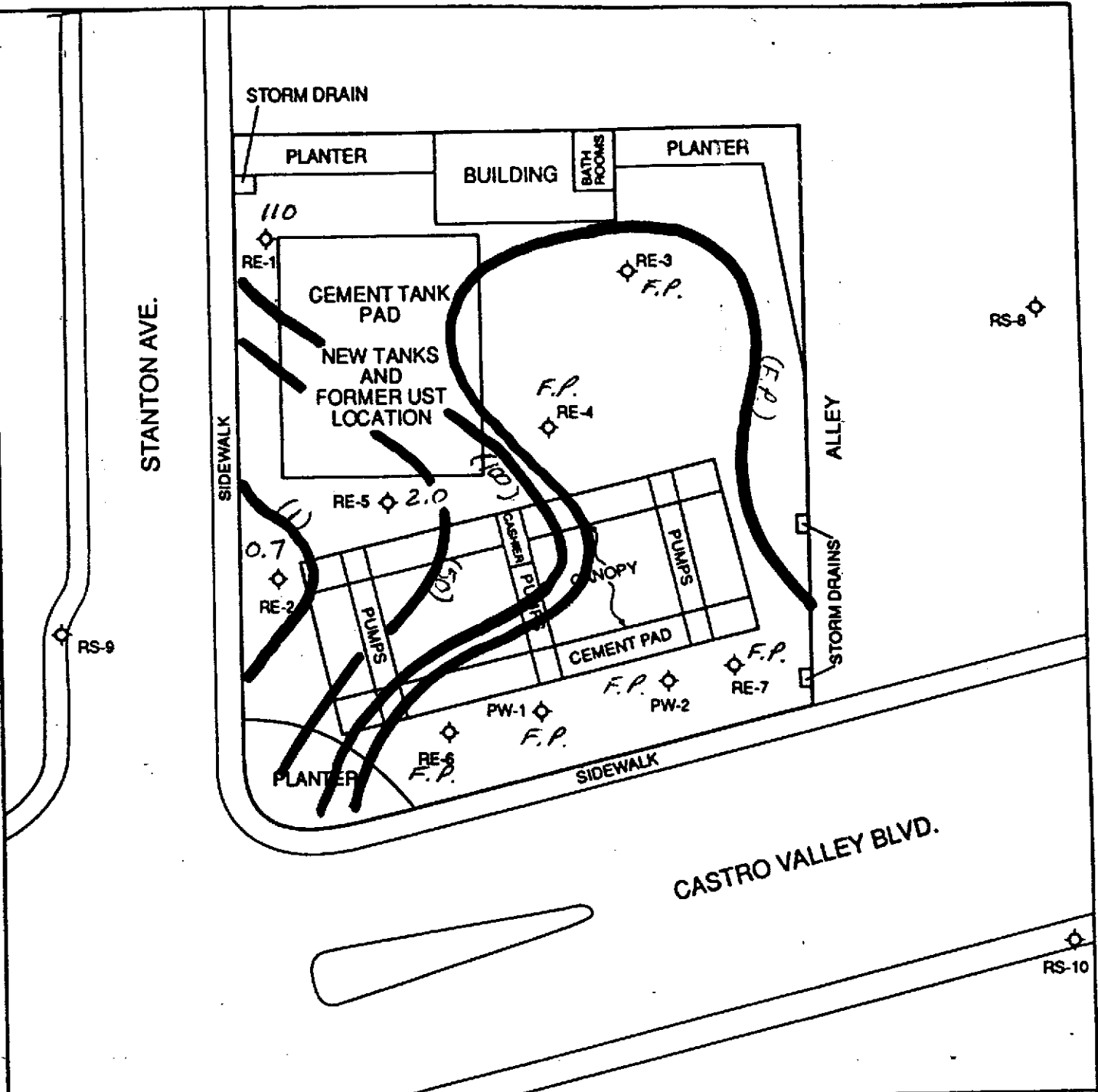
1 - TPH CONTOUR 5/22/91 (ppm)

◇ EXISTING MONITORING WELL



(FIGURE 6)





SITE PLAN II
THRIFTY OIL CO. #054
CASTRO VALLEY, CALIFORNIA
 Prepared for
THRIFTY OIL CO.
DOWNEY, CALIFORNIA

F.P. - Film or Sheen

(- TPH CONTOUR, 6/19/91 (PPM)

◇ EXISTING MONITORING WELL



(FIGURE 7)



APPENDIX A



PROJECT STATUS REPORT
 THRIFTY OIL CO. S.S. #054
 2504 CASTRO VALLEY BLVD.
 CASTRO VALLEY, CA 94546
 DATE: APRIL 03, 1991

F R E Q .	M O N I T O R I N G				O D O R S			F R E E		W E L L S C O N N E C T E D T O S Y S T E M (W)									
	O B S E R V A T I O N W E L L S				(S = S L I G H T)			P R O D U C T		C O N N E C T		I N T E G R I T Y		V A P O R		W A T E R			
	NO.	DTW	DTP	PT	YES	NO	S	YES	NO	YES	NO	YES	NO	OK	NO	ON	OFF	ON	OFF
W	PW-1	4.95	-		-	X	-	-	X	X	-	X	-	X	-	-	-	X	
W	PW-2	5.51	SHEEN	SHEEN	X	-	-	X	-	X	-	X	-	X	-	-	-	X	
W	RE-1	4.10	-		-	X	-	-	X	X	-	X	-	X	-	-	-	X	
W	RE-2	3.75	-		-	X	-	-	X	X	-	X	-	X	-	-	-	X	
W	RE-3	5.40	FILM	FILM	X	-	-	X	-	X	-	X	-	X	-	-	-	X	
W	RE-4	11.25	FILM	FILM	X	-	-	X	-	X	-	X	-	X	-	X	-	X	
W	RE-5	3.95	-		-	X	-	-	X	X	-	X	-	X	-	-	-	X	
W	RE-6	5.20	-		-	X	-	-	X	X	-	X	-	X	-	-	-	X	
W	RE-7	8.10	FILM	FILM	X	-	-	X	-	X	-	X	-	X	-	X	-	X	

S A V E S Y S T E M W E E K L Y

PARAMETER	U/M	DATA	PARAMETER	U/M	DATA
TIME	AM/PM	10:30 AM	AIR FLOW	C F M	5
WORKING	YES/NO	YES	VAPOR FLOW	C F M	20
RESTARTED	YES/NO	-	FUEL FLOW	C F M/H	8
HOURS	#	2202	WELL VACUUM	IN H2O	30
ENGINE ROT.	RPM	1800	L P G TANKS	%	#1: 90
ENGINE VACUUM	IN HG	15	GAS METER READING	-	N/A
TANK VACUUM	IN HG	19	WATER FLOWMETER	GALL.	1233

EXHAUST (By others)					
INLET TO ENGINE					

MAINTENANCE ES/100/400/800 FOR SPECIFIC OPERATIONS SEE FIELD RECORD

W A T E R S A M P L I N G - C H E C K () W H E N D O N E

EFFLUENT	INFLUENT	WELLS
()	()	() Q.-SEE C.CUST.

REMARKS:

FREE PRODUCT REMOVED: APPROX. 0.00 GALLONS WATER REMOVED: APPROX. 0.00 GALLONS

DATA RECORDED BY : EUGENIU GASMAN INPUT BY: M.M. >\FF\054rsirt



PROJECT STATUS REPORT
 THRIFTY OIL CO. S.S. #054
 2504 CASTRO VALLEY BLVD.
 CASTRO VALLEY, CA 94546
 DATE: 5.1.91

F R E Q .	MONITORING				ODORS			FREE		WELLS CONNECTED TO SYSTEM (W)							
	OBSERVATION WELLS				(S=SLIGHT)			PRODUCT		CONNECT		INTEGRITY		VAPOR		WATER	
	NO.	DTW	DTP	PT	YES	NO	S	YES	NO	YES	NO	OK	NO	ON	OFF	ON	OFF
W	PW-1	5.20			-	X	-	-	X	X	-	✓	-	X	-	-	X
W	PW-2	6.12			-	X	-	-	X	X	-	X	-	X	-	-	X
W	RE-1	3.98			-	X	-	-	X	X	-	X	-	X	-	-	X
W	RE-2	4.30			-	X	-	-	X	X	-	X	-	X	-	-	X
W	RE-3	5.92	Film	Film	X	-	X	X	-	X	-	X	-	X	-	-	X
W	RE-4	11.35	Film	Film	X	-	X	X	-	X	-	X	-	X	-	X	-
W	RE-5	4.02			-	X	-	-	X	X	-	X	-	X	-	-	X
W	RE-6	5.84			-	X	-	-	X	X	-	X	-	X	-	-	X
W	RE-7	9.40	Film	Film	X		X	X		X	-	X	-	X	-	X	-

SAVE SYSTEM WEEKLY

PARAMETER	U/M	DATA	PARAMETER	U/M	DATA
TIME	AM/PM	9:15	AIR FLOW	CFM	12
WORKING	YES/NO	YES	VAPOR FLOW	CFM	11
RESTARTED	YES/NO	NO	FUEL FLOW	CFM/H	7
HOURS	#	138 *	WELL VACUUM	IN H2O	12
ENGINE ROT.	RPM	1900	LPG TANKS	#	#1: 85
ENGINE VACUUM	IN HG	13	GAS METER READING	-	N/A
TANK VACUUM	IN HG	11	WATER FLOWMETER	GALL.	1544

EXHAUST (By others) _____

INLET TO ENGINE _____

MAINTENANCE ES/100/400/800 _____ FOR SPECIFIC OPERATIONS SEE FIELD RECORD

WATER SAMPLING - CHECK () WHEN DONE

EFFLUENT	INFLUENT	WELLS
() _____	() _____	() Q.-SEE C.CUST.

REMARKS:
 * TACHOMETER REPLACED. BY RSI

FREE PRODUCT REMOVED: APPROX. _____ GALLONS WATER REMOVED: APPROX. _____ GALLONS
 DATA RECORDED BY: EUGENIU GASMAN INPUT BY: M.M. >\FF\054rsirt



PROJECT STATUS REPORT
 THRIFTY OIL CO. S.S. #054
 2504 CASTRO VALLEY BLVD.
 CASTRO VALLEY, CA 94546
 DATE: 5.22.1991

ATB
 14.10
 14.40
 19.85
 17.10
 17.60
 14.60
 18.25
 13.65
 13.20

F R E E Q .	MONITORING				ODORS			FREE		WELLS CONNECTED TO SYSTEM (W)							
	OBSERVATION WELLS				(S=SLIGHT)			PRODUCT		CONNECT		INTEGRITY		VAPOR		WATER	
	NO.	DTW	DTP	PT	YES	NO	S	YES	NO	YES	NO	OK	NO	ON	OFF	ON	OFF
W	PW-1	5.10		23	-	*	X	-	X	X	-	Y	-			-	
W	PW-2	6.07		21	-	*	X	-	X	X	-	Y	-			-	
W	RE-1	4.42		40	-	X	-	-	X	X	-	Y	-			-	
W	RE-2	4.43		33	-	X	-	-	X	X	-	X	-			-	
W	RE-3	5.98	Film		Y	-	-	X	-	X	-	-	X			-	
W	RE-4	10.30	GREEN		Y	-	-	Y	-	X	-	Y	-			X	
W	RE-5	4.40		36	-	*	X	-	X	X	-	X	-			-	
W	RE-6	6.05		20	-	X	-	-	X	X	-	X	-			-	
W	RE-7	11.70	GREEN		Y	-	-	X	-	X	-	Y	-			X	

SAVE SYSTEM WEEKLY

PARAMETER	U/M	DATA	PARAMETER	U/M	DATA
TIME	AM/PM	8.00	AIR FLOW	CFM	10
WORKING	YES/NO	YES	VAPOR FLOW	CFM	7
RESTARTED	YES/NO	NO	FUEL FLOW	CFM/H	8.5
HOURS	#	594	WELL VACUUM	IN H2O	10
ENGINE ROT.	RPM	1900	L P G TANKS	#	#1: 80
ENGINE VACUUM	IN HG	14	GAS METER READING	-	N/A
TANK VACUUM	IN HG	19	WATER FLOWMETER	GALL.	1581

EXHAUST (By others) _____

INLET TO ENGINE _____

MAINTENANCE ES/100/400/800 _____ FOR SPECIFIC OPERATIONS SEE FIELD RECORD

WATER SAMPLING - CHECK () WHEN DONE

EFFLUENT	INFLUENT	WELLS
() _____	() _____	() Q.-SEE C.CUST.

REMARKS: _____

FREE PRODUCT REMOVED: APPROX. _____ GALLONS WATER REMOVED: APPROX. 173 GALLONS

DATA RECORDED BY: EUGENIU GASMAN INPUT BY: M.H. >\FF\054rsirt



PROJECT STATUS REPORT
 THRIFTY OIL CO. S.S. #054
 2504 CASTRO VALLEY BLVD.
 CASTRO VALLEY, CA 94546
 DATE: 6.19.1991

160.85
 159.81
 161.87
 160.76
 160.55
 155.84
 162.38
 160.39
 154.57

FREQUENCY	MONITORING				ODORS			FREE		WELLS CONNECTED TO SYSTEM (W)							
	OBSERVATION WELLS				(S=SLIGHT)			PRODUCT		CONNECT		INTEGRITY		VAPOR		WATER	
	NO.	DTW	DTP	PT	YES	NO	S	YES	NO	YES	NO	OK	NO	ON	OFF	ON	OFF
M	PW-1	5.61	SHEEN	SHEEN	-	-	✓	-	✓	X	-	✓	-			-	✓
M	PW-2	6.37	SHEEN	SHEEN	-	-	✓	-	✓	X	-	✓	-			-	✓
M	RE-1	4.93			-	✓	-	-	✓	X	-	✓	-			-	✓
M	RE-2	6.43			-	✓	-	-	✓	X	-	✓	-			-	✓
M	RE-3	6.84	SHEEN	SHEEN	-	-	✓	-	✓	X	-	✓	-			-	✓
M	RE-4	11.10	SHEEN	SHEEN	-	-	✓	-	✓	X	-	-	✓			✓	-
M	RE-5	4.76			-	✓	-	-	✓	X	-	✓	-			-	✓
M	RE-6	6.12	SHEEN	SHEEN	-	-	✓	-	✓	X	-	✓	-			-	✓
M	RE-7	11.47	SHEEN	SHEEN	-	-	✓	-	✓	X	-	✓	-			✓	-

SAVE SYSTEM WEEKLY

PARAMETER	U/M	DATA	PARAMETER	U/M	DATA
TIME	AM/PM	8.00	AIR FLOW	CFM	10
WORKING	YES/NO	YES	VAPOR FLOW	CFM	10
RESTARTED	YES/NO	NO	FUEL FLOW	CFM/H	10
HOURS	#	2990	WELL VACUUM	IN H2O	15
ENGINE ROT.	RPM	1800	LPG TANKS	#	#1: 60
ENGINE VACUUM	IN HG	15	GAS METER READING	-	N/A
TANK VACUUM	IN HG	19	WATER FLOWMETER	GALL.	1947

EXHAUST (By others)					
INLET TO ENGINE					

MAINTENANCE ES/100/400/800 _____ FOR SPECIFIC OPERATIONS SEE FIELD RECORD

WATER SAMPLING - CHECK () WHEN DONE

EFFLUENT	INFLUENT	WELLS
() _____	() _____	() Q.-SEE C.CUST.

REMARKS: _____

FREE PRODUCT REMOVED: APPROX. _____ GALLONS WATER REMOVED: APPROX. 102 GALLONS
 DATA RECORDED BY: EUGENIU GASMAN INPUT BY: M.M. >\PF\054rsirt

FIELD DATA - GROUNDWATER WELL SAMPLING PROGRAM

DATE 5.22.1991 STATION NO. 054
PERSONNEL E. GARMAN
WELL NO. PW 1 WEATHER SUNY
SAMPLE EQUIPMENT _____

Before Sampling

Total Well Depth 14.10 Ft. Well Diameter 4"
Depth to Water 5.10 Ft. Purge Volume 23

Sampling Data

Time	<u>11:15</u>	<u>11:20</u>	<u>11:25</u>	<u>11:30</u>	<u>11:33</u>	_____	_____
EC	<u>490</u>	<u>340</u>	<u>340</u>	<u>340</u>	<u>340</u>	_____	_____
pH	<u>7.41</u>	<u>7.29</u>	<u>7.24</u>	<u>7.24</u>	<u>7.24</u>	_____	_____
Temp	<u>69</u>	<u>69</u>	<u>68.5</u>	<u>67</u>	<u>67</u>	_____	_____
Gal.	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>23</u>	_____	_____
Time	_____	_____	_____	_____	_____	_____	_____
EC	_____	_____	_____	_____	_____	_____	_____
pH	_____	_____	_____	_____	_____	_____	_____
Temp	_____	_____	_____	_____	_____	_____	_____
Gal.	_____	_____	_____	_____	_____	_____	_____

After Sampling

Depth to Water 13 Ft. Total Well Depth 14.10 Ft.

FIELD DATA - GROUNDWATER WELL SAMPLING PROGRAM

DATE 5-22-1991 STATION NO. 054
PERSONNEL E. G. ASMAVI
WELL NO. PW 2 WEATHER _____
SAMPLE EQUIPMENT _____

Before Sampling

Total Well Depth 14.40 Ft. Well Diameter 4"
Depth to Water 6.07 Ft. Purge Volume 21

Sampling Data

Time	<u>12:05</u>	<u>12:10</u>	<u>12:15</u>	<u>12:20</u>	<u>12:30</u>	_____	_____
EC	<u>410</u>	<u>400</u>	<u>390</u>	<u>390</u>	<u>390</u>	_____	_____
pH	<u>7.18</u>	<u>7.14</u>	<u>7.11</u>	<u>7.11</u>	<u>7.11</u>	_____	_____
Temp	<u>70</u>	<u>67</u>	<u>68</u>	<u>67.9</u>	<u>67.7</u>	_____	_____
Gal.	<u>4</u>	<u>8</u>	<u>12</u>	<u>16</u>	<u>21</u>	_____	_____
Time	_____	_____	_____	_____	_____	_____	_____
EC	_____	_____	_____	_____	_____	_____	_____
pH	_____	_____	_____	_____	_____	_____	_____
Temp	_____	_____	_____	_____	_____	_____	_____
Gal.	_____	_____	_____	_____	_____	_____	_____

After Sampling

Depth to Water 13.20 Ft. Total Well Depth 14.40 Ft.

FIELD DATA - GROUNDWATER WELL SAMPLING PROGRAM

DATE 5.22.1991 STATION NO. 0.57
 PERSONNEL E. GARMAN
 WELL NO. KE 5 WEATHER SUNY
 SAMPLE EQUIPMENT _____

Before Sampling

Total Well Depth 18.25 Ft. Well Diameter 4"
 Depth to Water 4.40 Ft. Purge Volume 36

Sampling Data

Time	9:40	9:45	9:50	9:55	10:00	10:05	10:12
EC	950	930	910	870	790	790	790
pH	7.74	7.50	7.41	7.33	7.33	7.33	7.33
Temp	73	72	70	69	68	68	68
Gal.	5	10	15	20	25	30	36
Time	_____	_____	_____	_____	_____	_____	_____
EC	_____	_____	_____	_____	_____	_____	_____
pH	_____	_____	_____	_____	_____	_____	_____
Temp	_____	_____	_____	_____	_____	_____	_____
Gal.	_____	_____	_____	_____	_____	_____	_____

After Sampling

Depth to Water 14 Ft. Total Well Depth 18.25 Ft.

FIELD DATA - GROUNDWATER WELL SAMPLING PROGRAM

DATE 5.22.1991 STATION NO. 054
 PERSONNEL E GARMAN
 WELL NO. RE 1 WEATHER SUNY
 SAMPLE EQUIPMENT _____

Before Sampling

Total Well Depth 19.85 Ft. Well Diameter 4"
 Depth to Water 4.42 Ft. Purge Volume 40

Sampling Data

Time	<u>8:15</u>	<u>8:20</u>	<u>8:25</u>	<u>8:30</u>	<u>8:35</u>	<u>8:40</u>	<u>8:45</u>
EC	<u>0.980</u>	<u>1.010</u>	<u>1.100</u>	<u>1.200</u>	<u>1.200</u>	<u>1.280</u>	<u>1.280</u>
pH	<u>7.36</u>	<u>7.36</u>	<u>7.37</u>	<u>7.43</u>	<u>7.43</u>	<u>7.64</u>	<u>7.64</u>
Temp	<u>73</u>	<u>72</u>	<u>70.5</u>	<u>70</u>	<u>69</u>	<u>68</u>	<u>68</u>
Gal.	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>
Time	<u>8:50</u>	_____	_____	_____	_____	_____	_____
EC	<u>1.28</u>	_____	_____	_____	_____	_____	_____
pH	<u>7.64</u>	_____	_____	_____	_____	_____	_____
Temp	<u>68</u>	_____	_____	_____	_____	_____	_____
Gal.	<u>40</u>	_____	_____	_____	_____	_____	_____

After Sampling

Depth to Water 17.30 Ft. Total Well Depth 19.85 Ft.

FIELD DATA - GROUNDWATER WELL SAMPLING PROGRAM

DATE 5.22.1991 STATION NO. 054
 PERSONNEL E GARMAN
 WELL NO. RE 2 WEATHER SUNY
 SAMPLE EQUIPMENT _____

Before Sampling

Total Well Depth 17.10 Ft. Well Diameter 4"
 Depth to Water 4.43 Ft. Purge Volume 33

Sampling Data

Time	9:00	9:05	9:10	9:15	9:20	9:25	9:28
EC	<u>1,160</u>	<u>1,160</u>	<u>1,160</u>	<u>1,160</u>	<u>1,160</u>	<u>1,160</u>	<u>1,160</u>
pH	<u>7.60</u>	<u>7.52</u>	<u>7.46</u>	<u>7.40</u>	<u>7.37</u>	<u>7.37</u>	<u>7.37</u>
Temp	<u>72</u>	<u>70</u>	<u>69</u>	<u>68</u>	<u>67.5</u>	<u>67.5</u>	<u>67.5</u>
Gal.	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>33</u>
Time	_____	_____	_____	_____	_____	_____	_____
EC	_____	_____	_____	_____	_____	_____	_____
pH	_____	_____	_____	_____	_____	_____	_____
Temp	_____	_____	_____	_____	_____	_____	_____
Gal.	_____	_____	_____	_____	_____	_____	_____

After Sampling

Depth to Water 15.90 Ft. Total Well Depth 17.10 Ft.

FIELD DATA - GROUNDWATER WELL SAMPLING PROGRAM

DATE 5. 22. 1991 STATION NO. 054
PERSONNEL E. GALMAN
WELL NO. RE 6 WEATHER SUNY
SAMPLE EQUIPMENT _____

Before Sampling

Total Well Depth 13.65 Ft. Well Diameter 4"
Depth to Water 6.05 Ft. Purge Volume 20

Sampling Data

Time	<u>10:30</u>	<u>30:34</u>	<u>10:38</u>	<u>10:42</u>	<u>10:45</u>	<u>10:50</u>	_____
EC	<u>1370</u>	<u>1350</u>	<u>1330</u>	<u>1320</u>	<u>1320</u>	<u>1320</u>	_____
pH	<u>7.23</u>	<u>7.31</u>	<u>7.40</u>	<u>7.45</u>	<u>7.45</u>	<u>7.45</u>	_____
Temp	<u>74</u>	<u>73</u>	<u>72</u>	<u>70</u>	<u>70</u>	<u>70</u>	_____
Gal.	<u>4</u>	<u>8</u>	<u>10</u>	<u>14</u>	<u>17</u>	<u>20</u>	_____
Time	_____	_____	_____	_____	_____	_____	_____
EC	_____	_____	_____	_____	_____	_____	_____
pH	_____	_____	_____	_____	_____	_____	_____
Temp	_____	_____	_____	_____	_____	_____	_____
Gal.	_____	_____	_____	_____	_____	_____	_____

After Sampling

Depth to Water 12.40 Ft. Total Well Depth 13.65 Ft.

FIELD DATA - GROUNDWATER WELL SAMPLING PROGRAM

DATE 6.19.1991 STATION NO. 054
 PERSONNEL EUGENIU GABMAN
 WELL NO. RE 5 WEATHER CLOUDY
 SAMPLE EQUIPMENT TEFLON BAILER

Before Sampling

Total Well Depth 18.25 Ft. Well Diameter 4"
 Depth to Water 4.76 Ft. Purge Volume 35

Sampling Data

Time	<u>8.30</u>	<u>8.35</u>	<u>8.40</u>	<u>8.45</u>	<u>8.50</u>	<u>8.55</u>	<u>9.00</u>
EC	<u>830</u>	<u>890</u>	<u>920</u>	<u>940</u>	<u>980</u>	<u>980</u>	<u>980</u>
pH	<u>7.73</u>	<u>7.56</u>	<u>7.47</u>	<u>7.46</u>	<u>7.41</u>	<u>7.41</u>	<u>7.41</u>
Temp	<u>68.0</u>	<u>68.0</u>	<u>67.5</u>	<u>67.0</u>	<u>66.5</u>	<u>66</u>	<u>66</u>
Gal.	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>
Time	_____	_____	_____	_____	_____	_____	_____
EC	_____	_____	_____	_____	_____	_____	_____
pH	_____	_____	_____	_____	_____	_____	_____
Temp	_____	_____	_____	_____	_____	_____	_____
Gal.	_____	_____	_____	_____	_____	_____	_____

After Sampling

Depth to Water _____ Ft. Total Well Depth _____ Ft.

FIELD DATA - GROUNDWATER WELL SAMPLING PROGRAM

DATE 6.19.1991 STATION NO. 054
 PERSONNEL EUGENIU GARMAN
 WELL NO. RE 2 WEATHER CLOUDY
 SAMPLE EQUIPMENT TEFLON BAILER

Before Sampling

Total Well Depth 17.10 Ft. Well Diameter 4"
 Depth to Water 6.43 Ft. Purge Volume 28

Sampling Data

Time	<u>9.35</u>	<u>9.40</u>	<u>9.45</u>	<u>9.50</u>	<u>9.55</u>	<u>10.00</u>	_____
Ec	<u>1150</u>	<u>1190</u>	<u>1190</u>	<u>1170</u>	<u>1170</u>	<u>1170</u>	_____
pH	<u>7.28</u>	<u>7.36</u>	<u>7.28</u>	<u>7.25</u>	<u>7.24</u>	<u>7.24</u>	_____
Temp	<u>66</u>	<u>66.2</u>	<u>66</u>	<u>65.3</u>	<u>65</u>	<u>65</u>	_____
Gal.	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>28</u>	_____
Time	_____	_____	_____	_____	_____	_____	_____
EC	_____	_____	_____	_____	_____	_____	_____
pH	_____	_____	_____	_____	_____	_____	_____
Temp	_____	_____	_____	_____	_____	_____	_____
Gal.	_____	_____	_____	_____	_____	_____	_____

After Sampling

Depth to Water 7.00 Ft. Total Well Depth 17.10 Ft.

FIELD DATA - GROUNDWATER WELL SAMPLING PROGRAM

DATE 6.19.1991 STATION NO. 054
PERSONNEL EUGENIU GASMAN
WELL NO. RE 1 WEATHER CLOUDY
SAMPLE EQUIPMENT TEFLON BAILER

Before Sampling

Total Well Depth 19.85 Ft. Well Diameter 4"
Depth to Water 4.93 Ft. Purge Volume 39 gallons

Sampling Data

Time	<u>10.50</u>	<u>10.55</u>	<u>11.00</u>	<u>11.05</u>	<u>11.10</u>	<u>11.15</u>	<u>11.20</u>
EC	<u>980</u>	<u>990</u>	<u>980</u>	<u>1010</u>	<u>1050</u>	<u>1060</u>	<u>1060</u>
pH	<u>7.30</u>	<u>7.28</u>	<u>7.21</u>	<u>7.20</u>	<u>7.20</u>	<u>7.20</u>	<u>7.21</u>
Temp	<u>68</u>	<u>68</u>	<u>67</u>	<u>67.3</u>	<u>66.5</u>	<u>66</u>	<u>66</u>
Gal.	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>
Time	<u>11.25</u>	_____	_____	_____	_____	_____	_____
EC	<u>1060</u>	_____	_____	_____	_____	_____	_____
pH	<u>7.20</u>	_____	_____	_____	_____	_____	_____
Temp	<u>66</u>	_____	_____	_____	_____	_____	_____
Gal.	<u>39</u>	_____	_____	_____	_____	_____	_____

After Sampling

Depth to Water _____ Ft. Total Well Depth _____ Ft.

STATION NO. 054

MONITORING WELL ELEVATIONS

WELL I.D.	ELEVATION ¹ PVC CASING (FT)	ELEVATION ² RIM (FT)
PW-1	-----	166.46
PW-2	-----	166.18
RE-1	-----	166.82
RE-2	-----	167.19
RE-3	-----	167.39
RE-4	-----	166.94
RE-5	-----	167.14
RE-6	-----	166.51
RE-7	-----	166.04
RS-8	164.11	164.32
RS-9	167.14	167.51
RS-10	162.50	162.89

- 1 - DENOTES ELEVATION ESTABLISHED ON "V" GROOVE ON NORTH EDGE OF PVC CASING.
- 2 - DENOTES ELEVATION ESTABLISHED ON DRILL-HOLE ON NORTH EDGE OF RIM.

APPENDIX B



SMITH-EMERY COMPANY

The Full Service Environmental Testing Laboratory - Established 1904

781 East Washington Boulevard
P.O. Box 880550, Hunter's Point Shipyard Bldg. 114
5427 East La Palma Avenue

- Los Angeles, California 90021
- San Francisco, California 94188
- Anaheim, California 92807
- (213) 749-3411
- (415) 330-3000
- (714) 693-1026
- Fax: (213) 746-7226
- Fax: (415) 622-5864
- Fax: (714) 693-1034

THRIFTY OIL COMPANY
FILE# 7144
10000 LAKEWOOD BLVD.
DOWNEY, CA. 90240

05/28/91

Attn: CONSTANTIN TUCULESCU ✓
213/923/9876

SS# 054
CHAIN OF CUSTODY # 35050

Sample #: 1144123301
Received: 05/24/91
Type: WATER

Collector: Client
Sampling Date & Time: 05/22/91, 1455
Method: GRAB

I.D.: WELL PW - 1

=====CONSTITUENT=====	====METHOD=====	==RESULT==	===UNIT===
EPA 8015		ANALYZED	5/21/91
GASOLINE	EPA 8015	41,000	UG/L
EPA 602		ANALYZED	5/21/91
BENZENE	EPA 602	600	UG/L
TOLUENE	EPA 602	730	UG/L
ETHYLBENZENE	EPA 602	250	UG/L
XYLENES	EPA 602	3800	UG/L

Sample #: 1144123302
Received: 05/24/91
Type: WATER

Collector: Client
Sampling Date & Time: 05/22/91, 1507
Method: GRAB

I.D.: WELL PW - 2

EPA 8015		ANALYZED	5/25/91
GASOLINE	EPA 8015	14,000	UG/L
EPA 602		ANALYZED	5/25/91
BENZENE	EPA 602	57	UG/L
TOLUENE	EPA 602	51	UG/L
ETHYLBENZENE	EPA 602	10	UG/L
XYLENES	EPA 602	480	UG/L



SMITH-EMERY COMPANY

Independent Testing Laboratory, Established 1904

781 East Washington Boulevard
P.O. Box 88(550), Hunter's Point Shipyard Bldg. 114
5427 East La Palma Avenue

- Los Angeles, California 90021 • (213) 749-3411 • Fax: (213) 746-7228
- San Francisco, California 94188 • (415) 330-3000 • Fax: (415) 822-5864
- Anaheim, California 92807 • (714) 693-1026 • Fax: (714) 693-1034

Sample #: 1144123303
Received: 05/24/91
Type: WATER

Collector: Client
Sampling Date & Time: 05/22/91, 1410
Method: GRAB

I.D.: WELL RE - 1

CONSTITUENT	METHOD	RESULT	UNIT
EPA 8015		ANALYZED	5/25/91
GASOLINE	EPA 8015	85,000	UG/L
EPA 602		ANALYZED	5/25/91
BENZENE	EPA 602	8700	UG/L
TOLUENE	EPA 602	10,000	UG/L
ETHYLBENZENE	EPA 602	1800	UG/L
XYLENES	EPA 602	12,000	UG/L

Sample #: 1144123304
Received: 05/24/91
Type: WATER

Collector: Client
Sampling Date & Time: 05/22/91, 1420
Method: GRAB

I.D.: WELL RE - 2

EPA 8015		ANALYZED	5/25/91
GASOLINE	EPA 8015	1000	UG/L
EPA 602		ANALYZED	5/25/91
BENZENE	EPA 602	5.3	UG/L
TOLUENE	EPA 602	3.6	UG/L
ETHYLBENZENE	EPA 602	4.4	UG/L
XYLENES	EPA 602	8.9	UG/L

Sample #: 1144123305
Received: 05/24/91
Type: WATER

Collector: Client
Sampling Date & Time: 05/22/91, 1435
Method: GRAB

I.D.: WELL RE - 5

EPA 8015		ANALYZED	5/25/91
GASOLINE	EPA 8015	2500	UG/L
EPA 602		ANALYZED	5/25/91
BENZENE	EPA 602	330	UG/L
TOLUENE	EPA 602	7.8	UG/L



SMITH-EMERY COMPANY

The First Serious Independent Testing Laboratory - Established 1914

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- San Francisco, California 94188
- Anaheim, California 92807
- (213) 749-3411
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- (714) 693-1026
- Fax: (213) 746-7228
- Fax: (415) 822-5664
- Fax: (714) 693-1034

=====CONSTITUENT=====	=====METHOD=====	==RESULT==	===UNIT===
ETHYLBENZENE	EPA 602	5.6	UG/L
XYLENES	EPA 602	200	UG/L

Sample #: 1144123306
Received: 05/24/91
Type: WATER

Collector: Client
Sampling Date & Time: 05/22/91, 1445
Method: GRAB

I.D.: WELL RE - 6

EPA 8015		ANALYZED 5/25/91
GASOLINE	EPA 8015	8500 UG/L
EPA 602		ANALYZED 5/25/91
BENZENE	EPA 602	1700 UG/L
TOLUENE	EPA 602	14 UG/L
ETHYLBENZENE	EPA 602	24 UG/L
XYLENES	EPA 602	6.7 UG/L

Sample #: 1144123307
Received: 05/24/91
Type: WATER

Collector: Client
Sampling Date & Time: 05/01/91, 1609
Method: GRAB

I.D.: TRIP BLANK

EPA 8015		ANALYZED 5/25/91
GASOLINE	EPA 8015	ND <50 UG/L
EPA 602		ANALYZED 5/25/91
BENZENE	EPA 602	ND <0.5 UG/L
TOLUENE	EPA 602	ND <0.5 UG/L
ETHYLBENZENE	EPA 602	ND <1.0 UG/L
XYLENES	EPA 602	ND <1.0 UG/L

Respectfully submitted,


Shahid Noori, Manager Chemical Lab



SMITH-EMERY COMPANY

The Full Service Independent Testing Laboratory, Established 1904

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5427 East La Palma Avenue

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THRIFTY OIL COMPANY
FILE# 7144
10000 LAKEWOOD BLVD.
DOWNEY, CA. 90240

06/28/91

Attn: NICK CIORTAN ✓
213/923/9876

SS# 054
CHAIN OF CUSTODY P.O.# 35196

Sample #: 1172163501
Received: 06/21/91
Type: WATER

Collector: Client
Sampling Date & Time: 06/19/91, 1440
Method: SUBMITTED BY CLIENT

I.D.: WELL RE-1

=====CONSTITUENT=====	=====METHOD=====	==RESULT==	===UNIT===
EPA 8015		ANALYZED	9/26/91
GASOLINE	EPA 8015	110,000	UG/L
EPA 602		ANALYZED	6/26/91
BENZENE	EPA 602	8500	UG/L
TOLUENE	EPA 602	9600	UG/L
ETHYLBENZENE	EPA 602	2600	UG/L
XYLENES	EPA 602	16,000	UG/L

Sample #: 1172163502
Received: 06/21/91
Type: WATER

Collector: Client
Sampling Date & Time: 06/19/91, 1420
Method: SUBMITTED BY CLIENT

I.D.: WELL RE-2

EPA 8015		ANALYZED	6/26/91
GASOLINE	EPA 8015	700	UG/L
EPA 602		ANALYZED	6/26/91
BENZENE	EPA 602	2.1	UG/L
TOLUENE	EPA 602	1.4	UG/L
ETHYLBENZENE	EPA 602	3.8	UG/L
XYLENES	EPA 602	3.5	UG/L



SMITH-EMERY COMPANY

The Full Service Independent Testing Laboratory, Established 1904

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- (714) 693-1026
- Fax: (213) 746-7228
- Fax: (415) 822-5864
- Fax: (714) 693-1034

Sample #: 1172163503
Received: 06/21/91
Type: WATER

Collector: Client
Sampling Date & Time: 06/19/91, 1405
Method: SUBMITTED BY CLIENT

I.D.: WELL RE-5

===== CONSTITUENT =====	===== METHOD =====	===== RESULT ====	===== UNIT =====
EPA 8015		ANALYZED	6/26/91
GASOLINE	EPA 8015	2000	UG/L
EPA 602		ANALYZED	6/26/91
BENZENE	EPA 602	59	UG/L
TOLUENE	EPA 602	1.6	UG/L
ETHYLBENZENE	EPA 602	5.1	UG/L
XYLENES	EPA 602	110	UG/L

Sample #: 1172163504
Received: 06/21/91
Type: WATER

Collector: Client
Sampling Date & Time: 06/19/91, 1330
Method: SUBMITTED BY CLIENT

I.D.: TRIP BLANK

EPA 8015		ANALYZED	6/26/91
GASOLINE	EPA 8015	ND <50	UG/L
EPA 602		ANALYZED	6/26/91
BENZENE	EPA 602	ND <0.5	UG/L
TOLUENE	EPA 602	ND <0.5	UG/L
ETHYLBENZENE	EPA 602	ND <1.0	UG/L
XYLENES	EPA 602	ND <1.0	UG/L

Respectfully submitted,

Shahid Noori, Manager Chemical Lab

LAB# 1172163501

CHAIN OF CUSTODY FORM

P.O. # 35196		Client and Site Location: THRIFTY OIL CO., SS # 054			MONTHLY SAMPLING		ANALYTICAL METHOD										Submit Results To:																																																																						
Samplers (Signature) <i>Dygeni Gannon</i>							<table border="1"> <tr> <td>T</td><td>B</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>P</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>H</td><td>E</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>										T	B																						P	X																						H	E																						THRIFTY OIL CO. 10000 LAKEWOOD BLVD. DOWNEY, CA 90240	
T	B																																																																																						
P	X																																																																																						
H	E																																																																																						
									Attn: CONSTANTIN TUCULESCU Phone No. (213) 923 - 9876																																																																														
Sample Number	Date	Time	Depth Below Grade (ft)	Sample Type	Suspect Contamination	No. of Containers (VIALS)	*	*															REMARKS																																																																
WELL PW-1	6-19-91			GRAB	GASOLINE	4	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	MONTHLY WATER SAMPLING																																																																
WELL PW-2	6-17-91			GRAB	GASOLINE	4	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	* COMBINED TEST																																																																
WELL RE-1	6-19-91	2:40 P	8	GRAB	GASOLINE	4	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-																																																																	
WELL RE-2	6-19-91	2:20 P	10	GRAB	GASOLINE	4	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-																																																																	
WELL RE-3	6-19-91			GRAB	GASOLINE	4	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-																																																																	
WELL RE-4	6-19-91			GRAB	GASOLINE	4	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-																																																																	
WELL RE-5	6-19-91	2:05 P	9	GRAB	GASOLINE	4	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-																																																																	
WELL RE-6	6-19-91			GRAB	GASOLINE	4	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-																																																																	
WELL RE-7	6-19-91			GRAB	GASOLINE	4	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-																																																																	
TRIP BLANK	6-18-91	1:30 P		-	-	2	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-																																																																	
* NOT SAMPLED. FREE PRODUCT FLOATED																																																																																							

Sample Integrity:			Relinquished by:			Date / Time			Received by:		
Samples Intact:	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<i>Dygeni Gannon</i>			6/19 4:00P			<i>Rafael [Signature]</i>		
Samples Properly Cooled:	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Relinquished by:			Date / Time			Received by:		
Samples Accepted:	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>									
If not, why: _____			Relinquished by:			Date / Time			Received for Lab by:		
Samples Placed in Lab Refrigerator						6/21/91 10:00			<i>John C. [Signature]</i>		
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Rep. Initials <i>JG</i>	Certification No.:								
Laboratory Name: SMITH - EMERY COMPANY											

CHAIN OF CUSTODY FORM

P.O. # 35196		Client and Site Location: THRIFTY OIL CO., SS # 054			MONTHLY SAMPLING		ANALYTICAL METHOD					Submit Results To:					
Samplers (Signature) <i>Eugeniu Gasman</i>							T P H X E									THRIFTY OIL CO. 10000 LAKEWOOD BLVD. DOWNEY, CA 90240	
Sample Number	Date	Time	Depth Below Grade (ft)	Sample Type	Suspect Contamination	No. of Containers (VIALS)										Attn: CONSTANTIN TUCULESCU Phone No. (213) 923 - 9876	
WELL PW-1	6-19-91			GRAB	GASOLINE	4	X	X	-	-	-	-	-	-	-	-	MONTHLY WATER SAMPLING
WELL PW-2	6-19-91			GRAB	GASOLINE	4	X	X	-	-	-	-	-	-	-	-	* COMBINED TEST
WELL RE-1	6-19-91	2:40 P	8	GRAB	GASOLINE	4	X	X	-	-	-	-	-	-	-	-	
WELL RE-2	6-19-91	2:20 P	10	GRAB	GASOLINE	4	X	X	-	-	-	-	-	-	-	-	
WELL RE-3	6-19-91			GRAB	GASOLINE	4	X	X	-	-	-	-	-	-	-	-	
WELL RE-4	6-19-91			GRAB	GASOLINE	4	X	X	-	-	-	-	-	-	-	-	
WELL RE-5	6-19-91	2:05 P	9	GRAB	GASOLINE	4	X	X	-	-	-	-	-	-	-	-	
WELL RE-6	6-19-91			GRAB	GASOLINE	4	X	X	-	-	-	-	-	-	-	-	
WELL RE-7	6-19-91			GRAB	GASOLINE	4	X	X	-	-	-	-	-	-	-	-	
TRIP BLANK	6-18-91			-	-	2	X	X	-	-	-	-	-	-	-	-	
* NOT SAMPLED FREE PRODUCT FLOATED																	

Sample Integrity:							
Samples Intact:	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		Relinquished by:	Date / Time	Received by:	
Samples Properly Cooled:	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		<i>Eugeniu Gasman</i>	6/19 4:00P	<i>Constantin Tuculescu</i>	
Samples Accepted:	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		Relinquished by:	Date / Time	Received by:	
If not, why:	_____						
Samples Placed in Lab Refrigerator	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Rep. Initials _____	Relinquished by:	Date / Time	Received for Lab by:	
Laboratory Name: SMITH - EMERY COMPANY				Certification No.:	_____		