

THRIFTY OIL CO.

April 27, 1992

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
1st. QUARTER REPORT, 1992

Dear Mr. Seary,

This letter report presents the results of soil/groundwater treatment and site monitoring during the 1st. quarter of 1992 at the subject site. A vicinity map is presented as Figure 1. The approximate location of the on- and off-site monitoring wells are shown on Figure 2. During the 1st. quarter of 1992, Remediation Services Intl. (RSI) no longer operated and maintained the soil/groundwater treatment unit (RSI-SAVE system) and as of January 29, 1992 the unit has not been operational. All monitoring is conducted by Earth Management Co. (EMC). During the monthly site visits by EMC, a technician inspected the treatment unit, collected groundwater samples and recorded any pertinent data.

Treatment Unit Operation

Based on the data obtained by EMC, the RSI-SAVE unit has operated a total of 5209 hours with about 129 hours of operation during the reporting period. **This decrease in operational hours from last quarter is apparently due to the lack of supplemental fuel.** A total of about 2672 gallons of water has been processed by the unit and discharged to the local sanitary sewer of this 156 gallons was processed during the quarter.

Site Monitoring and Sample Collection

The site was visited once a month by an EMC technician in order to gauge the wells and collect 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 2.65 to 8.64 feet below grade. **As of March 11, 1992, four of the twelve wells exhibited noticeable 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 interpretation of groundwater flow across the site on March 11, 1992 is depicted on Figure 2. In general, the groundwater flow was to the east at a gradient of about 4 feet per 100 feet. No pumping depressions were noted as the unit was not operational.

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 7 to 38 gallons of water were removed from each well and stored in 55 gallon D.O.T approved drums pending disposal or discharge through the treatment unit. Groundwater samples were collected with a Teflon bailer. Samples were maintained and transported in 40 milliliter vials placed on ice pending delivery to American Analytics, a state certified analytical laboratory headquartered in Chatsworth, California. 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. The two down-gradient wells, RS-8 and RS-9 indicate no detectable hydrocarbons. An iso-concentration map of benzene based on the March sampling event is presented as Figures 3.

Closing

Thrifty will continue to monitor groundwater at the site on a quarterly basis for the remainder of 1992. In addition, the RSI-SAVE system will be restarted and appropriate monitoring will be accomplished. If you have any questions please contact me at (213) 923-9876.

Very truly yours,



Peter D'Amico
Manager
Environmental Affairs

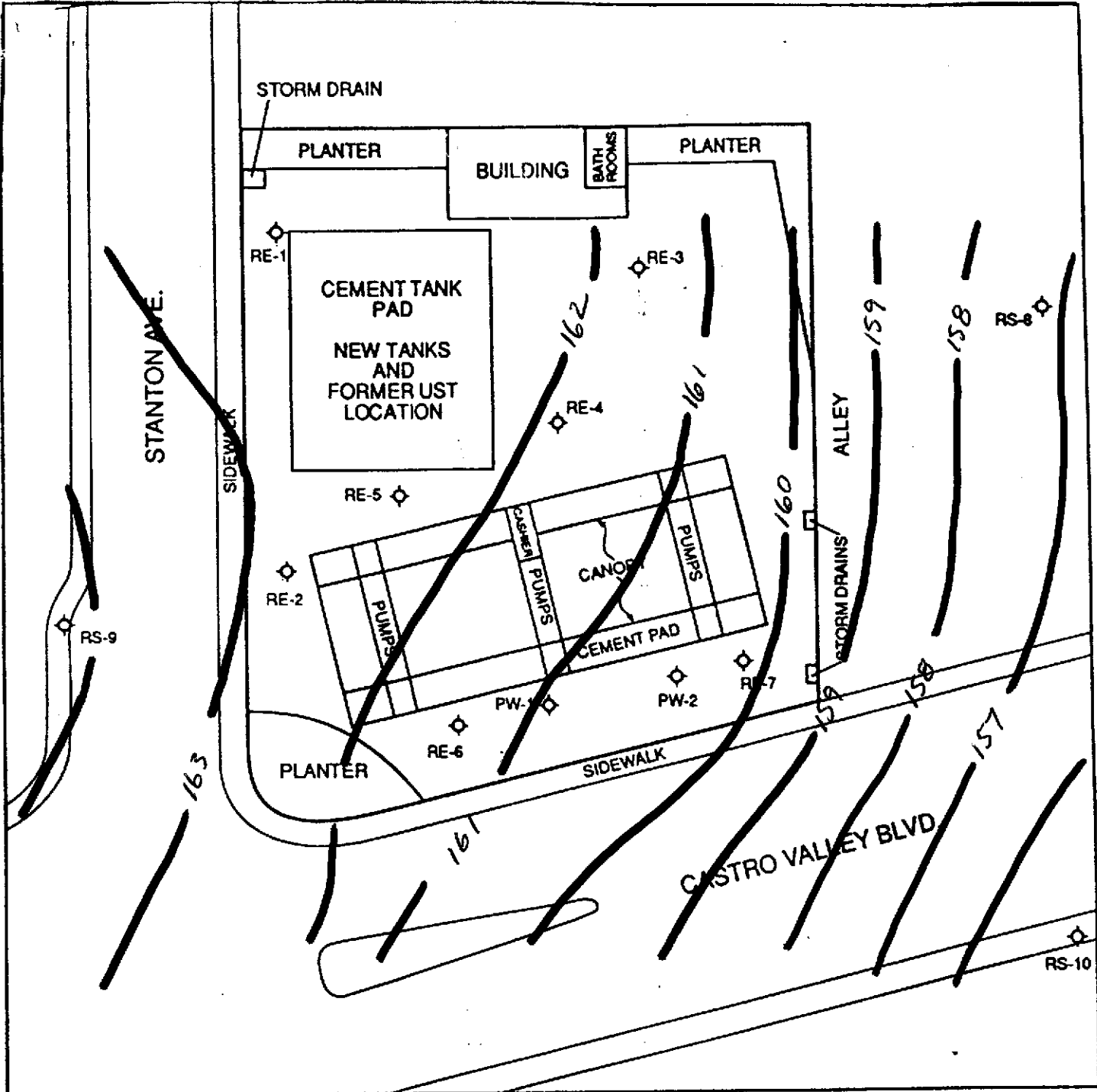
cc: Mr. Ray Lorge
2522 Castro Valley Blvd.
Castro Valley, CA

INCORRECT: RS-8 has
begun to show concentrations
of TPH-G and BTEX

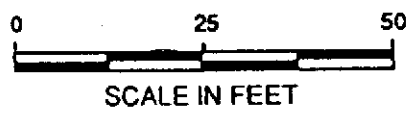
FIGURES



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



/ GROUNDWATER CONTOUR
 (3-11-92)
 ◊ EXISTING MONITORING WELL

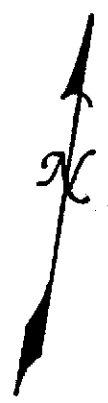
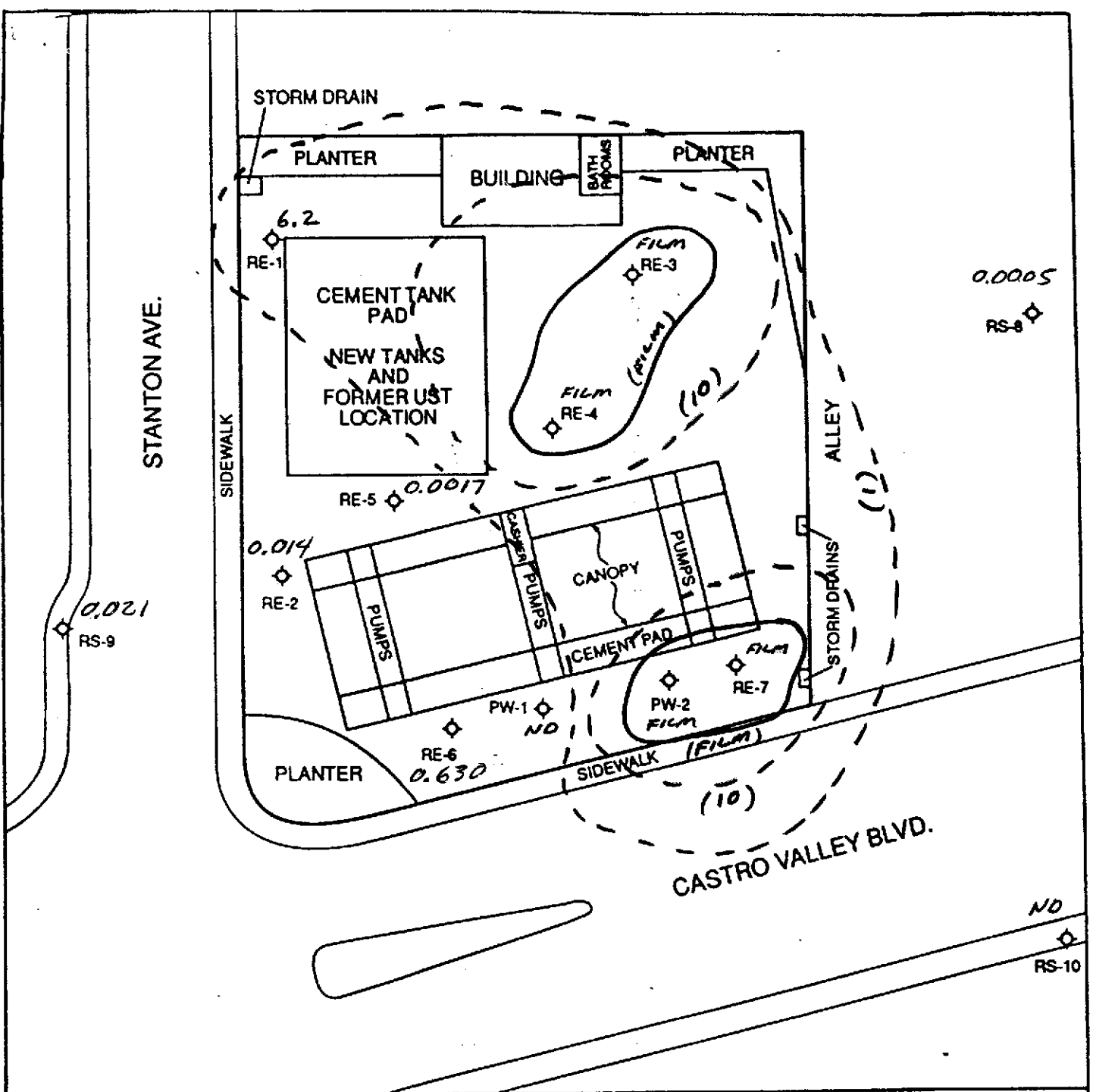
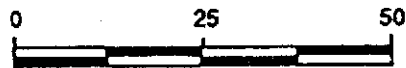


Figure 2





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



SCALE IN FEET

*- benzene contour, ppm
 3-19-92*

EXISTING MONITORING WELL

Figure 3



Table 1 - Summary of Analytical Results

LD	Date	TPH	Benzene	Toluene	Ethyl-Benzene	Xylenes	
PW-1	5/22/91	41000	600	730	250	3800	
	3/19/92	ND	ND	ND	ND	ND	
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	
	7/17/91	5500	950	ND	26	ND	
	8/07/91	NA	6700	5000	ND	7100	
	9/27/91	60000	6800	4300	640	6900	
	10/23/91	79000	7900	8300	450	7100	
	11/06/91	130000	14000	15000	1100	8800	
	12/04/91	50000	8000	4700	520	4100	
	1/29/92	21000	10300	11000	780	6000	
	2/26/92	38000	8400	10500	720	7100	
	3/19/92	48000	6200	9700	780	7200	
	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	
7/17/91		880	12.0	8.0	4.3	28.0	
8/07/91		NA	3.8	1.6	ND	ND	
9/27/91		670	7.2	7.1	ND	23	
10/23/91		2700	52	60	22	130	
11/06/91		1900	18	61	9.1	83	
12/04/91		1100	26	47	4.3	42	
1/29/92		900	14	24	5.3	19	
2/26/92		500	3.4	3.5	2.7	2.7	
3/19/91		1200	14	20	15	18	
RE-5		5/22/91	2500	330	7.8	5.6	200
	6/19/91	2000	59	1.6	5.1	110	
	11/06/91	9900	2300	37	260	160	
	12/04/91	4500	1000	27	ND	180	
	1/29/92	600	6.1	2.3	ND	47	
	2/26/92	500	5.4	2.7	1.2	14	
	3/19/92	ND	1.7	1.1	ND	5.5	
	RE-6	5/22/91	8500	1700	14	24	6.7
6/19/91		NA	NA	NA	NA	NA	
7/17/91		120000	9300	13000	2400	16000	
8/07/91		NA	590	5.3	ND	14	
9/27/91		7000	310	11	5.3	35	
11/06/91		4000	710	18	29	49	
12/04/91		4100	1100	14	33	39	
1/29/92		2600	790	14	ND	49	
2/26/92		3100	950	21	30	33	
3/19/92		2200	630	14	12	40	
8/07/91		ND	ND	ND	ND	ND	
9/27/91		ND	ND	ND	ND	ND	
10/23/91		ND	ND	ND	ND	ND	
11/06/91		ND	ND	ND	ND	ND	
12/04/91		ND	ND	ND	ND	ND	
1/29/92		ND	2.1	1.0	2.5	3.6	
2/26/92		ND	ND	0.7	ND	0.7	
3/19/92		ND	0.5	1.0	1.5	2.7	
RS9		8/07/91	NA	0.5	ND	330	1200
		9/27/91	13000	3.5	3.0	82	140
	10/23/91	11000	ND	ND	39	340	
	11/06/91	6800	8.4	0.6	22	230	
	12/04/91	6500	6.5	0.7	87	200	
	1/29/92	8100	22	10	140	260	
	2/26/92	13000	40	16	220	600	
	3/19/92	12000	21	12	100	280	
RS10	8/07/91	ND	ND	ND	ND	ND	
	9/27/01	ND	ND	ND	ND	ND	
	10/23/91	ND	ND	ND	ND	ND	
	11/06/91	ND	ND	ND	ND	ND	
	12/04/91	ND	ND	ND	ND	ND	
	1/29/92	ND	ND	ND	ND	ND	
	2/26/92	ND	ND	ND	ND	ND	
	3/19/92	ND	ND	ND	ND	0.6	

Results reported in micrograms per liter (ug/L)

NA - Not Analyzed.

TPH - Total Petroleum Hydrocarbons as gasoline.

APPENDIX A



PROJECT STATUS REPORT
 THRIFTY OIL CO. S.S. #054
 2504 CASTRO VALLEY BLVD.
 CASTRO VALLEY, CA 94546
 DATE: JANUARY 29, 1992

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
M	PW-1	5.43	SHEEN		-	-	X	-	X	X	-	X	-			-	-
M	PW-2	6.17	SHEEN		-	-	X	-	X	X	-	X	-			-	-
M	RE-1	4.50			-	X	-	-	X	X	-	X	-			-	-
M	RE-2	5.11			-	X	-	-	X	X	-	X	-			-	-
M	RE-3	7.17	SHEEN		-	-	X	-	X	X	-	X	-			-	-
M	RE-4	7.72	SHEEN		-	-	X	-	X	X	-	X	-			X	-
M	RE-5	5.12			-	X	-	-	X	X	-	X	-			-	-
M	RE-6	6.70			-	X	-	-	X	X	-	X	-			X	-
M	RE-7	8.64	SHEEN		-	-	X	-	X	X	-	X	-			-	-
M	RS-8	9.28			-	X	-	-	X	-	X	-	-	-	-	-	-
M	RS-9	2.65			-	X	-	-	X	-	X	-	-	-	-	-	-
M	RS-10	6.78			-	X	-	-	X	-	X	-	-	-	-	-	-

SAVE SYSTEM WEEKLY

PARAMETER	U/M	DATA	PARAMETER	U/M	DATA
TIME	AM/PM	10:00AM	AIR FLOW	C F M	12
WORKING	YES/NO	NO	VAPOR FLOW	C F M	14
RESTARTED	YES/NO	YES	FUEL FLOW	C F M/H	7
HOURS	#	2025	WELL VACUUM	IN H2O	22
ENGINE ROT.	RPM	2000	L P G TANKS	%	#1: 80
ENGINE VACUUM	IN HG	10	GAS METER READING	-	N/A
TANK VACUUM	IN HG	1	WATER FLOWMETER	GALL.	2672

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. 15 GALLONS

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



PROJECT STATUS REPORT
 THRIFTY OIL CO. S.S. #054
 2504 CASTRO VALLEY BLVD.
 CASTRO VALLEY, CA 94546
 DATE: FEBRUARY 26, 1992

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
M	PW-1	5.54	SHEEN				X		X	X	-	X	-				
M	PW-2	5.90	SHEEN				X		X	X	-	X	-				
M	RE-1	5.27				X			X	X	-	X	-				
M	RE-2	4.31	SHEEN			X			X	X	-	X	-				
M	RE-3	5.56	SHEEN				X		X	X	-	X	-				
M	RE-4	5.13	FILM		X			X		X	-	X	-				
M	RE-5	4.93				X			X	X	-	X	-				
M	RE-6	5.44				X			X	X	-	X	-				
M	RE-7	6.00	FILM		X			X		X	-	X	-				
M	RS-8	7.05				X	-		X	-	X	X	-				
M	RS-9	3.42				X	-		X	-	X	X	-				
M	RS-10	8.33				X	-		X	-	X	X	-				

SAVE SYSTEM WEEKLY

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

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. _____ GALLONS

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



PROJECT STATUS REPORT
 THRIFTY OIL CO. S.S. #054
 2504 CASTRO VALLEY BLVD.
 CASTRO VALLEY, CA 94546
 DATE: 3/11/92

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
M	PW-1	5.47				X			X		X	-	X						
M	PW-2	5.80	GREEN				X		X		X	-	X						
M	RE-1	4.47				X			X		X	-	X						
M	RE-2	4.45				X			X		X	-	X						
M	RE-3	5.44	GREEN				X		X		X	-	X						
M	RE-4	5.00	GREEN				X		X		X	-	X						
M	RE-5	4.45				X			X		X	-	X						
M	RE-6	5.30				X			X		X	-	X						
M	RE-7	5.55	Film		X				X		X	-	X						
M	RS-8	7:30				X			X		-	X	X						
M	RS-9	3:12				X			X		-	X	X						
M	RS-10	8.02				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		AIR FLOW	C F M	
WORKING	YES/NO	No	VAPOR FLOW	C F M	
RESTARTED	YES/NO	No	FUEL FLOW	C F M/H	
HOURS	#		WELL VACUUM	IN H2O	
ENGINE ROT.	RPM		L P G TANKS	% #1:	
ENGINE VACUUM	IN HG		GAS METER READING	-	N/A
TANK VACUUM	IN HG		WATER FLOWMETER	GALL.	

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. _____ GALLONS WATER REMOVED: APPROX. _____ GALLONS

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

APPENDIX B



LABORATORY ANALYSIS RESULTS

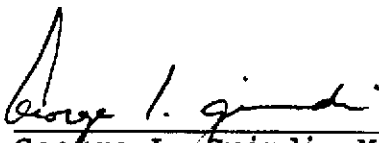
Client: Thrifty Oil Company
Project No.: N/A
Project Name: TOC #054
Sample Matrix: Grab Water
Method: EPA 602 (BTEX)

AA Project No.: A135054
Date Sampled: 1/29/92
Date Received: 1/31/92
Date Analyzed: 1/31/-2/4/92
Units: $\mu\text{g/L}$
Date Reported: 2/18/92

AA I.D.#	Client I.D.	Results (ppb)			
		Benzene	Ethylbenzene	Toluene	Xylenes
7287	Well RS10	ND	ND	ND	ND
Detection Limits:		0.5	0.5	0.5	0.5
7288	RS9	22	140	10	260
Detection Limits:		10	10	10	10
7289	RS8	2.1	2.5	1.0	3.6
Detection Limits:		0.5	0.5	0.5	0.5
7290	RE1	10300	780	11000	6000
Detection Limits:		100	100	100	100
7291	RE2	14	5.3	24	19
Detection Limits:		0.5	0.5	0.5	0.5
7292	RE5	6.1	ND	2.3	47
Detection Limits:		0.5	0.5	0.5	0.5
7293	RE6	790	ND	14	49
Detection Limits:		5	5	5	5
7294	Trip Blank	ND	ND	ND	ND
Detection Limits:		0.5	0.5	0.5	0.5

ND: Not detected at or above the concentration of the detection limits


Eric C.C. Lu, Ph.D.
Technical Director


George L. Guindi, M.S.
Chemist

tjm



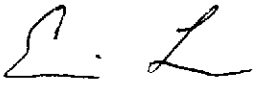
LABORATORY ANALYSIS RESULTS

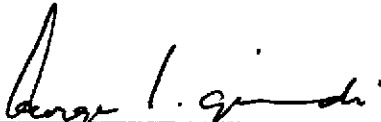
Client: Thrifty Oil Company
Project No.: N/A
Project Name: TOC 54
Sample Matrix: Grab Water
Method: EPA 8015M (Gasoline)

AA Project No.: A135054
Date Sampled: 1/29/92
Date Received: 1/31/92
Date Analyzed: 1/31/-2/4/92
Units: mg/L
Date Reported: 2/18/92

AA ID No.	Client ID	Total Petroleum Hydrocarbon Results (ppm)	Detection Limits (ppm)
7287	Well RS10	ND	0.2
7288	RS9	8.1	4
7289	RS8	ND	0.2
7290	RE1	21	4
7291	RE2	0.9	0.2
7292	RE5	0.6	0.2
7293	RE6	2.6	2
7294	Trip Blank	ND	0.2

ND: Not detected at or above the concentration of the detection limits


Eric C.C. Lu, Ph.D.
Technical Director


George L. Guindi, M.S.
Chemist

tjm



LABORATORY ANALYSIS RESULTS

Client: Thrifty Oil Company
Method: EPA 8020 (BTEX), QC, Spike

Sample Matrix: Water
Date Analyzed: 1/31/92
Date Reported: 2/18/92

Compound	Spike Recovery (%)	Spike/Duplicate Recovery (%)	RPD (%)
Benzene	96	94	2.1
Toluene	99	101	2.0
Ethyl Benzene	99	99	0
Total Xylenes	96	96	0

RPD = Relative Percent Difference, $100 [(x_1 - x_2) / ((x_1 + x_2) / 2)]$

Eric C.C. Lu, Ph.D.
Technical Director

tjm

George L. Guindi, M.S.
Chemist



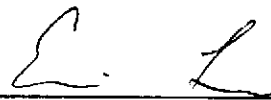
LABORATORY ANALYSIS RESULTS

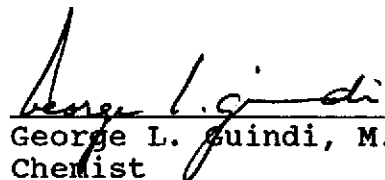
Client: Thrifty Oil Co.
Method: EPA 8015M (Gasoline), QC, Spike

Sample Matrix: Water
Date Analyzed: 1/31/92
Date Reported: 2/18/92

Spike Recovery (%)	Spike/Duplicate Recovery (%)	RPD (%)
90	90	0

RPD = Relative Percent Difference, $100[(x_1 - x_2)/\{(x_1 + x_2)/2\}]$


Eric C.C. Lu, Ph.D.
Technical Director


George L. Guindi, M.S.
Chemist

tjm



LABORATORY ANALYSIS RESULTS

Client: Thrifty Oil Company
Method: EPA 602 (BTEX), QC, Spike

Sample Matrix: Water
Date Analyzed: 2/4/92
Date Reported: 2/18/92

Compounds	Spike Recovery (%)	Spike/Duplicate Recovery (%)	RPD (%)
Benzene	105	104	0.9
Toluene	106	107	0.9
Ethyl Benzene	106	103	2.9
Total Xylenes	105	104	0.9

RPD = Relative Percent Difference, $100[(x_1 - x_2)/((x_1 + x_2)/2)]$

Eric C.C. Lu, Ph.D.
Technical Director

tjm

George L. Guindi, M.S.
Chemist



LABORATORY ANALYSIS RESULTS

Client: Thrifty Oil Co.

Sample Matrix: Water

Method: EPA 8015M (Gasoline), QC, Spike

Date Analyzed: 2/4/92

Date Reported: 2/18/92

Spike Recovery (%)	Spike/Duplicate Recovery (%)	RPD (%)
76	88	14.6

RPD = Relative Percent Difference, $100[(x_1 - x_2)/((x_1 + x_2)/2)]$

Eric C.C. Lu, Ph.D.
Technical Director

George L. Guindi, M.S.
Chemist



AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311

(818) 998-5547

(818) 998-5548

1-800-533-TEST

1-800-533-8378

FAX (818) 998-7258

DATE: _____

PAGE _____ OF _____

AA Client THRIFTY OIL CO	Phone (213) 923-9876	Sampler's Name EUGENIU GARMAN
Project Manager NICK CIORTAN	P.O. No.	Sampler's Signature <i>Eugeniu Gorman</i>
Project Name TOC # 054	Project No.	Project Manager's Signature

Job Name and Address TOC # 054 2504 Castro Valley Bl. CASTRO-VALEY CA 94546	ANALYSIS REQUIRED	Test Requirements
	Detection Limits 7	

AA ID.#	Client's ID.	Date	Time	Sample Type	Number of Containers	TEST												
7287	WELL RS10	1/29/92	1:50P	GRAB	2	X												
7288	RS9	1/29/92	2:05P	GRAB	2	X												
7289	RS8	1-29-92	2:25P	GRAB	2	X												
7290	RE1	1-29-92	2:45P	GRAB	2	X												
7291	RE2	1-29-92	3:10P	GRAB	2	X												
7292	RE5	1-29-92	3:30P	GRAB	2	X												
7293	RE6	1-29-92	3:45P	GRAB	2	X												
7294	TRIP BLANK	1-29-92	7:00P		2	X												

SAMPLE INTEGRITY-TO BE FILLED IN BY RECEIVING LAB				Relinquished by: <i>Eugeniu Gorman</i>	Date 1/31/92	Time 1:00	Received by: <i>[Signature]</i>
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"/>		Relinquished by:	Date	Time	Received by:
Samples Accepted	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		Relinquished by:	Date	Time	Received by:
If Not Why: _____				Relinquished by:	Date	Time	Received by:
AA Project No.				Relinquished by:	Date	Time	Received by:



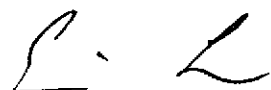
LABORATORY ANALYSIS RESULTS

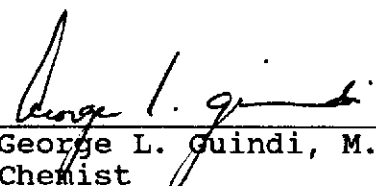
Client: Thrifty Oil Company
Project No.: N/A
Project Name: TOC #054
Sample Matrix: Grab Water
Method: EPA 602 (BTEX)

AA Project No.: A135054
Date Sampled: 2/26/92
Date Received: 2/26/92
Date Analyzed: 3/2,3/92
Units: $\mu\text{g/L}$
Date Reported: 3/13/92

AA I.D.#	Client I.D.	Results (ppb)			
		Benzene	Ethylbenzene	Toluene	Xylenes
7600	RS10	ND	ND	ND	ND
7601	RS8	ND	ND	0.7	0.7
Detection Limits:		0.5	0.5	0.5	0.5
7602	RS9	40	220	16	600
Detection Limits:		10	10	10	10
7603	RE2	3.4	2.7	3.5	2.7
7604	RE5	5.4	1.2	2.7	14
Detection Limits:		0.5	0.5	0.5	0.5
7605	RE6	950	30	21	33
Detection Limits:		5	5	5	5
7606	RE1	8,400	720	10,500	7,100
Detection Limits:		50	50	50	50
7607	Trip Blank	1.1	ND	2.8	1.6
Detection Limits:		0.5	0.5	0.5	0.5

ND: Not detected at or above the concentration of the detection limits


Eric C.C. Lu, Ph.D.
Technical Director


George L. Guindi, M.S.
Chemist

elh



LABORATORY ANALYSIS RESULTS

Client: Thrifty Oil Company
Method: EPA 602 (BTEX), QC, Spike

Sample Matrix: Water
Date Analyzed: 3/2/92
Date Reported: 3/13/92

Compounds	Spike Recovery (%)	Spike/Duplicate Recovery (%)	RPD (%)
Benzene	120	120	0
Toluene	112	113	0.9
Ethyl Benzene	104	106	1.9
Total Xylenes	106	106	0

RPD = Relative Percent Difference, $100[(x_1 - x_2)/((x_1 + x_2)/2)]$

Eric C.C. Lu, Ph.D.
Technical Director

elh

George L. Guindi, M.S.
Chemist



LABORATORY ANALYSIS RESULTS

Client: Thrifty Oil Company
Project No.: N/A
Project Name: TOC #054
Sample Matrix: Grab Water
Method: EPA 8015M (Gasoline)

AA Project No.: A135054
Date Sampled: 2/26/92
Date Received: 2/26/92
Date Analyzed: 3/2,3/92
Units: mg/L
Date Reported: 3/13/92

AA ID No.	Client ID	Total Petroleum Hydrocarbon Results (ppm)	Detection Limits (ppm)
7600	RS10	ND	0.2
7601	RS8	ND	0.2
7602	RS9	13	4
7603	RE2	0.5	0.2
7604	RE5	0.5	0.2
7605	RE6	3.1	2
7606	RE1	38	20
7607	Trip Blank	ND	0.2

ND: Not detected at or above the concentration of the detection limits

Eric C.C. Lu, Ph.D.
Technical Director

elh

George L. Guindi, M.S.
Chemist



LABORATORY ANALYSIS RESULTS

Client: Thrifty Oil Co.

Sample Matrix: Water

Method: EPA 8015M (Gasoline), QC, Spike

Date Analyzed: 3/2/92

Date Reported: 3/13/92

Spike Recovery (%)	Spike/Duplicate Recovery (%)	RPD (%)
105	114	8.2

RPD = Relative Percent Difference, $100[(x_1 - x_2)/((x_1 + x_2)/2)]$

Eric C.C. Lu, Ph.D.
Technical Director

elh

George L. Guindi, M.S.
Chemist



LABORATORY ANALYSIS RESULTS

Client: Thrifty Oil Company
Method: EPA 602 (BTEX), QC, Spike

Sample Matrix: Water
Date Analyzed: 3/3/92
Date Reported: 3/13/92

Compounds	Spike Recovery (%)	Spike/Duplicate Recovery (%)	RPD (%)
Benzene	138	140	1.4
Toluene	130	135	3.8
Ethyl Benzene	120	125	4.1
Total Xylenes	123	127	3.2

RPD = Relative Percent Difference, $100[(x_1 - x_2)/((x_1 + x_2)/2)]$

Eric C.C. Lu, Ph.D.
Technical Director

elh

George L. Guindi, M.S.
Chemist



LABORATORY ANALYSIS RESULTS

Client: Thrifty Oil Co.
Method: EPA 8015M (Gasoline), QC, Spike

Sample Matrix: Water
Date Analyzed: 3/3/92
Date Reported: 3/13/92

Spike Recovery (%)	Spike/Duplicate Recovery (%)	RPD (%)
83	87	4.7

RPD = Relative Percent Difference, $100[(x_1 - x_2)/\{(x_1 + x_2)/2\}]$

Eric C.C. Lu, Ph.D.
Technical Director

elh

George L. Guindi, M.S.
Chemist



AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311

(818) 998-5547 (818) 998-5548 1-800-533-TEST 1-800-533-8378 FAX (818) 998-7258

DATE: 2/26/92
PAGE ____ OF ____

AA Client <u>THRIFTY OIL CO</u>	Phone <u>(213) 923-9876</u>	Sampler's Name <u>EUGENIU GARMAN</u>
Project Manager <u>NICK CIORTAN</u>	P.O. No.	Sampler's Signature <u>Eugeniu Garmar</u>
Project Name <u>TOC # 054</u>	Project No.	Project Manager's Signature <u>[Signature]</u>

Job Name and Address <u>TOC # 054</u> <u>2504 CASTRO VALLEY</u> <u>CASTRO VALEY CA 94546</u>	ANALYSIS REQUIRED	
	Detection Limits	Test Requirements
	Test Name	

AA ID.#	Client's ID.	Date	Time	Sample Type	Number of Containers	H	P	T	B	M	U
7600	RS 10	2/26/92	1:45P	GRAB	2	X	X				
7601	RS 8	2/26/92	2:05P	GRAB	2	X	X				
7602	RS 9	2/26/92	2:30P	GRAB	2	X	X				
7603	RE 2	2/26/92	2:55P	GRAB	2	X	X				
7604	RE 5	2/26/92	3:20P	GRAB	2	X	X				
7605	RE 6	2/26/92	3:45P	GRAB	2	X	X				
7606	RE 1	2/26/92	4:05P	GRAB	2	X	X				
7607	TRIP BLANK	2/26/92	7:00A		2	X	X				

SAMPLE INTEGRITY-TO BE FILLED IN BY RECEIVING LAB			
Samples Intact	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Relinquished by: <u>Eugeniu Garmar</u>	Date <u>2/26/92</u> Time _____ Received by: <u>[Signature]</u>
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"/>	Relinquished by:	Date _____ Time _____ Received by:
# Not Why: _____		Relinquished by:	Date _____ Time _____ Received by:
AA Project No. _____		Relinquished by:	Date _____ Time _____ Received by:



LABORATORY ANALYSIS RESULTS

Client: Thrifty Oil Company
Project No.: N/A
Project Name: TOC #054
Sample Matrix: Water
Method: EPA 602 (BTEX)

AA Project No.: A135054
Date Sampled: 3/19/92
Date Received: 3/23/92
Date Analyzed: 3/25/92
Units: µg/L
Date Reported: 4/3/92

AA I.D.#	Client I.D.	Results (ppb)			
		Benzene	Ethylbenzene	Toluene	Xylenes
8104	PW1	ND	ND	ND	ND
Detection Limits:		0.5	0.5	0.5	0.5
8105	RE1	6200	780	9700	7200
Detection Limits:		50	50	50	50
8106	RE2	14	15	20	18
8107	RE5	1.7	ND	1.1	5.5
Detection Limits:		0.5	0.5	0.5	0.5
8108	RE6	630	12	14	40
Detection Limits:		5	5	5	5
8109	RS8	0.5	1.5	1.0	2.7
Detection Limits:		0.5	0.5	0.5	0.5
8110	RS9	21	100	12	280
Detection Limits:		10	10	10	10
8111	RS10	ND	ND	ND	0.6
8112	Trip Blank	ND	ND	ND	ND
Detection Limits:		0.5	0.5	0.5	0.5

ND: Not detected at or above the concentration of the detection limits

Eric C.C. Lu, Ph.D.
Technical Director

George L. Guindi, M.S.
Chemist

elh



LABORATORY ANALYSIS RESULTS

Client: Thrifty Oil Company
Method: EPA 602 (BTEX), QC, Spike

Sample Matrix: Water
Date Analyzed: 3/25/92
Date Reported: 4/3/92

Compounds	Spike Recovery (%)	Spike/Duplicate Recovery (%)	RPD (%)
Benzene	91	93	2.2
Toluene	92	94	2.1
Ethyl Benzene	89	91	2.2
Total Xylenes	90	90	0

RPD = Relative Percent Difference, $100[(x_1 - x_2)/((x_1 + x_2)/2)]$

Handwritten signature of Eric C.C. Lu.

Eric C.C. Lu, Ph.D.
Technical Director

Handwritten signature of George L. Guindi.
George L. Guindi, M.S.
Chemist

elh



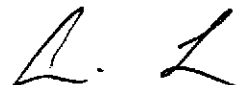
LABORATORY ANALYSIS RESULTS

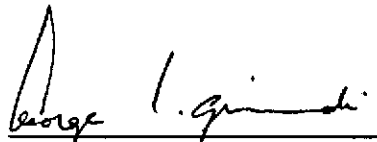
Client: Thrifty Oil Company
Project No.: N/A
Project Name: TOC #054
Sample Matrix: Water
Method: EPA 8015M (Gasoline)

AA Project No.: A135054
Date Sampled: 3/19/92
Date Received: 3/23/92
Date Analyzed: 3/25/92
Units: mg/L
Date Reported: 4/3/92

AA ID No.	Client ID	Total Petroleum Hydrocarbon Results (ppm)	Detection Limits (ppm)
8104	PW1	ND	0.2
8105	RE1	48	20
8106	RE2	1.2	0.2
8107	RE5	ND	0.2
8108	RE6	2.2	2.0
8109	RS8	ND	0.2
8110	RS9	12	4.0
8111	RS10	ND	0.2
8112	Trip Blank	ND	0.2

ND: Not detected at or above the concentration of the detection limits


Eric C.C. Lu, Ph.D.
Technical Director


George L. Guindi, M.S.
Chemist

elh



LABORATORY ANALYSIS RESULTS

Client: Thrifty Oil Co.
Method: EPA 8015M (Gasoline), QC, Spike

Sample Matrix: Water
Date Analyzed: 3/25/92
Date Reported: 4/3/92

Spike Recovery (%)	Spike/Duplicate Recovery (%)	RPD (%)
108	106	1.9

RPD = Relative Percent Difference, $100[(x_1 - x_2)/((x_1 + x_2)/2)]$

Eric C.C. Lu, Ph.D.
Technical Director

George L. Guindi, M.S.
Chemist

elh



AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311

(818) 998-5547

(818) 998-5548

1-800-533-TEST

1-800-533-8378

FAX (818) 998-7258

DATE: 3/19/92

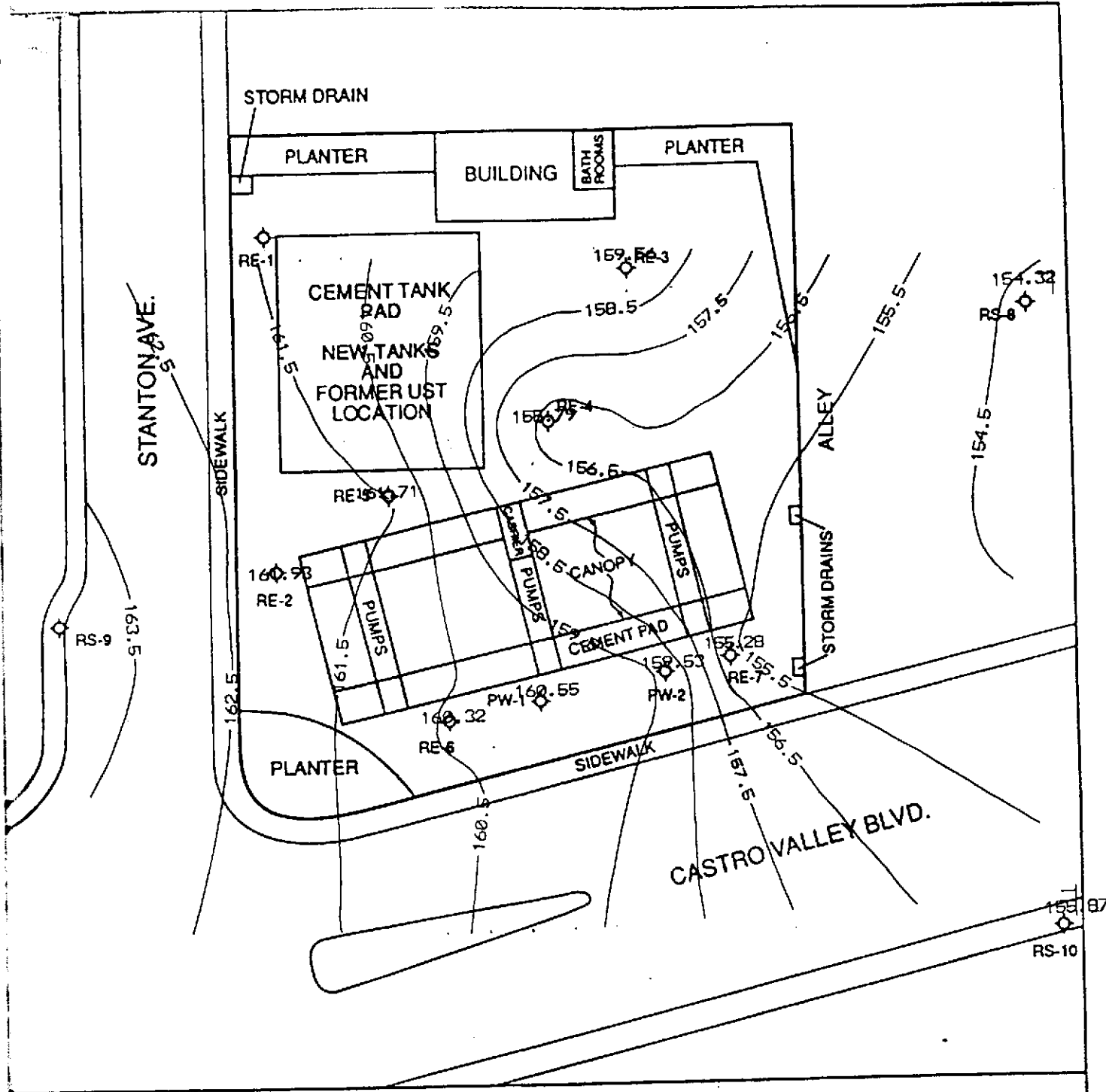
PAGE _____ OF _____

AA Client THRIFTY OIL CO	Phone (213) 953-0719	Sampler's Name EUGENIU GARMAN
Project Manager NICK CIORTAN	P.O. No.	Sampler's Signature <i>Eugeniu Gorman</i>
Project Name TOC # 054	Project No.	Project Manager's Signature

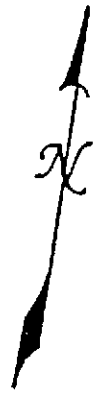
Job Name and Address TOC # 054 2504 CASTRO VALLEY CASTRO VALLEY CA 94546	ANALYSIS REQUIRED	Test Requirements
	Detection Limits	

AA ID.#	Client's ID.	Date	Time	Sample Type	Number of Containers	Test Name														
						H	P	T	B											
8104	PW 4	3/19/92	4:20P	GRAB	2	X	X													
8105	RE1	3/19/92	3:05P	GRAB	2	X	X													
8106	RE2	3-19-92	3:30P	GRAB	2	X	X													
8107	RE5	3-19-92	3:45P	GRAB	2	X	X													
8108	RE6	3-19-92	4:05P	GRAB	2	X	X													
8109	RS8	3-19-92	2:20P	GRAB	2	X	X													
8110	RS9	3-19-92	2:45P	GRAB	2	X	X													
8111	RS10	3-19-92	2:00P	GRAB	2	X	X													
8112	TRIP BLANK	3-19-92	7:00A		2	X	X													

SAMPLE INTEGRITY TO BE FILLED IN BY RECEIVING LAB Samples Intact Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Samples Properly Cooled Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Samples Accepted Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If Not Why: _____	Relinquished by: <i>Eugeniu Gorman</i>	Date 3/22/92	Time 14:00	Received by: <i>[Signature]</i>
	Relinquished by:	Date	Time	Received by:
	Relinquished by:	Date	Time	Received by:
	Relinquished by:	Date	Time	Received by:



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



*(C-ROUNDWATER CONTOUR
 12-4-97)*

◇ EXISTING MONITORING WELL

Figure 5

