Touchstone Developments
Environmental Management

Product Piping Removal Soil Sampling Report

Chevron Service Station Number 9-0121
3026 Lakeshore Avenue
Oakland, California

prepared for

Chevron Products Company
6001 Bollinger Canyon Road
San Ramon, California

prepared by

Touchstone Developments

Jeff Monroe
Project Manager

November 1, 1996

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INTRODUCTION

This report prepared by Touchstone Developments (Touchstone) documents the removal of product piping at 3026 Lakeshore Avenue, Oakland, California (Figure 1). In addition, this report documents the disposal of soil generated at this location. Soil samples collected from beneath the dispensers, product piping and soil stockpile was performed on September 3 and 4, 1996.

SITE CONDITIONS

The site is located at the junction of Lakeshore Avenue and MacArthur Boulevard in Oakland, California. The site is adjacent to an apartment complex to the east, commercial businesses to the south and west, and by Highway 580 to the north. Facilities at this service station site consist of four 10,000-gallon single-wall fiberglass gasoline underground storage tanks (USTs), associated product piping, three dispenser islands, and a Kiosk.

Groundwater was not encountered in any of the piping trench excavations.

SERVICE STATION FIELD ACTIVITIES

Product piping removal and replacement, excavation, and backfill were performed by Amer/Norman Construction, of Walnut Creek California. A Touchstone representative was on-site to collect soil samples from the trench excavations and soil stockpiles. Scott Seary from the Alameda County Department of Environmental Health (ACDEH) directed and observed Touchstones' collection of fifteen (15) soil samples. Transportation and disposal of product piping was accomplished by **Erickson, Inc. of Richmond**, California.

Product Piping Sampling

Soil samples P-2-2.5', P-3-2.5', P-4-2.5', P-6-3', P-8-2.5', P-10-2.5', P-12-2.5', and P-15-2.5' were collected from beneath the dispensers at depths of approximately 2 1/2 to 3 feet below ground surface (bgs). Soil samples P1-3', P-5-3', P-7-3', P-9-2', P-11-3', P-13-3' and P-14-2.5' were collected from the trenches beneath the former product piping at depths of approximately 2 to 3 feet (bgs). Soil sample locations are shown on Figure 1 and soil sample analytical results are summarized in Table A.

STOCKPILE SAMPLING AND DISPOSAL

Soil stockpile PSP-1(A-D) represents approximately 100 cubic yards (cy) of soil excavated to replace product piping on-site. One soil sample was collected and analyzed for approximately every 100 cy of stockpiled material. Upon receipt of chemical analytical data, soil represented by stockpile samples PSP-1(A-D) was transported by Allwaste Transportation and Remediation, Inc. (Allwaste) to Browning-Ferris Industries (BFI) located in Livermore, California. Soil stockpile locations are shown on Figure 1 and soil stockpile sample analytical results are summarized in Table A.

SAMPLING PROTOCOL

Verification soil samples were collected from the excavation sidewalls and/or bottoms at various depths or where hydrocarbon impact was suspected. Soil samples were collected from by pushing a clean, six-inch-long, two-inch diameter, brass sample tube into the soil until completely full. The ends of the sample tubes were covered with aluminum foil and sealed with plastic end caps. The samples were then labeled, placed in a cooler with ice, entered on a Chain-of-Custody form and transported to Sequoia Analytical, a State-certified environmental laboratory located in Redwood City, California.

Stockpile Sampling

Four soil samples were collected for approximately every 100 cy of material generated at the site. The four samples were then combined in the laboratory and analyzed as one. The stockpile sample was collected by removing the top 6 to 12 inches of soil, then pushing a sample glass jar into the soil until completely full. The sample was sealed with Teflon lids, labeled and handled as described above.

SAMPLE ANALYSIS

Soil samples collected from the product piping trenches and associated stockpiles were analyzed for Total Petroleum Hydrocarbons calculated as gasoline (TPH-Gasoline) according to EPA Method 8015 (Modified), Benzene, Toluene, Ethylbenzene and Xylenes (BTEX) and Methyl t-Butyl Ether (MTBE) according to EPA Method 8020, Total Lead according to EPA SW-846 6010, and STLC Lead extraction procedures. Copies of the analytical laboratory reports and Chain-of-Custody forms are presented in Appendix A.

List of Attachments

Table A	Soil Sampling Analytical Summary
Figure 1	Site Plan and Soil Sampling Map
Appendix A	Chemical Analytical Reports and Chain-of-Custody forms

TABLE A
SAMPLING SUMMARY
Chevron Service Station No. 9-0121
3026 Lakeshore Avenue, Oakland, California
Results in mg/Kg - parts per million (ppm), unless otherwise noted

PIPING TRENCH AND DISPENSER SAMPLING RESULTS

SAMPLE ID	DEPTH (ft.)	DATE	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylenes	MTBE	Lead
P1-3'	3	3-Sep-96	ND	ND	ND	ND	ND	ND	18
P2-2'	2	3-Sep-96	ND	ND	ND	ND	ND	ND	12
P3-2.5'	2.5	3-Sep-96	ND	0.0056	ND	ND	0.005	0.63	25
P4-2.5'	2.5	3-Sep-96	710	ND	19	7.8	78	15	28
P5-3'	3	3-Sep-96	110	ND	ND	ND	0.46	ND	14
P6-3'	3	3-Sep-96	1.3	0.021	0.15	0.033	0.18	2.5	6.6
P7-3'	3	3-Sep-96	ND	ND	0.0071	0.0063	0.024	0.49	8.0
P8-2.5'	2.5	3-Sep-96	4,100	33	19	51	30	31	20
P9-2'	2	3-Sep-96	1,400	ND	22	5.4	5.0	9.7	13
P10-2.5'	2.5	3-Sep-96	410	8.3	ND	4.8	2.4	ND	52
P11-3'	3	3-Sep-96	1,600	25	ND	25	26	ND	15
P12-2.5'	2.5	3-Sep-96	2,200	28	ND	23	12	ND	20
P13-3'	3	3-Sep-96	290	6.1	4.0	2.1	1.3	ND	36
P14-2.5'	2.5	3-Sep-96	2,500	40	20	27	76	ND	19
P15-2.5'	2.5	3-Sep-96	1,000	23	ND	13	3.0	ND	44

STOCKPILE SAMPLING RESULTS

SAMPLE ID	DATE	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylenes	Lead	STLC Lead
PSP-1(A-D)	4-Sep-96	1,000	3.3	3.0	8.4	5	55	1.3

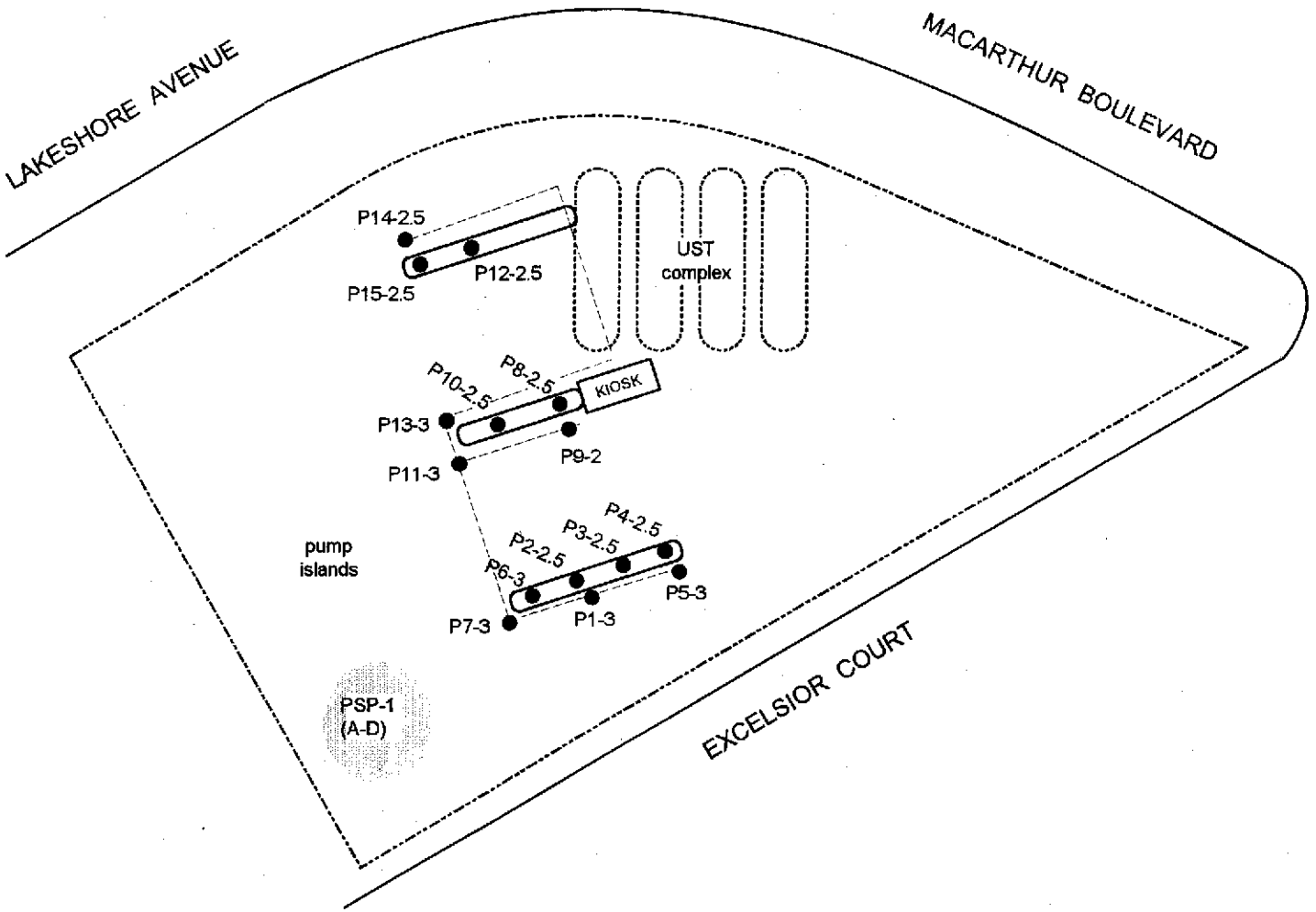
NOTES:

TPH-Gasoline = Total Petroleum Hydrocarbons calculated as gasoline.

MTBE = Methyl t-Butyl Ether

ND = Not detected at or above the laboratory detection limits.

ppm = Parts per Million, results reported in mg/Kg by the laboratory.



EXPLANATION

UST	Underground Storage Tank
-----	Product Line
● P1-2.5	Sample location and ID
	Soil stockpile location

N

0 15 30

approximate scale in feet

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SITE PLAN AND SAMPLE LOCATION MAP

Chevron Service Station No. 9-0121
3026 Lakeshore Avenue
Oakland, California

FIGURE
1

PROJECT NO.	DATE:	DRAWN BY:	BASE MAP
9-0121	9/96	WTJ	Robert H. Lee Associates - Site Plan 8/96

APPENDIX A

Chemical Analytical Reports and Chain-of-Custody forms

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Touchstone Developments
P.O. Box 2554
Santa Rosa, CA 95405

Attention: Jeff Monroe

Client Proj. ID: Chevron 9-0121, 0121-1

Lab Proj. ID: 9609051

Sampled: 09/03/96
Received: 09/04/96
Analyzed: see below

Reported: 09/11/96

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9609051-01 Sample Desc : **SOLID,P1-3**				
Lead	**mg/Kg**	**09/06/96**	**5.0**	**18**
Lab No: 9609051-02 Sample Desc : **SOLID,P2-2**				
Lead	**mg/Kg**	**09/06/96**	**5.0**	**12**
Lab No: 9609051-03 Sample Desc : **SOLID,P3-2.5**				
Lead	**mg/Kg**	**09/06/96**	**5.0**	**25**
Lab No: 9609051-04 Sample Desc : **SOLID,P4-2.5**				
Lead	**mg/Kg**	**09/06/96**	**5.0**	**28**
Lab No: 9609051-05 Sample Desc : **SOLID,P5-3**				
Lead	**mg/Kg**	**09/06/96**	**5.0**	**14**
Lab No: 9609051-06 Sample Desc : **SOLID,P6-3**				
Lead	**mg/Kg**	**09/06/96**	**5.0**	**6.6**
Lab No: 9609051-07 Sample Desc : **SOLID,P7-3**				
Lead	**mg/Kg**	**09/06/96**	**5.0**	**8.0**

Analytes reported as N.D. were not present above the stated limit of detection.

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Attention: Jeff Monroe

Client Proj. ID: Chevron 9-0121, 0121-1

Lab Proj. ID: 9609051

Sampled: 09/03/96
Received: 09/04/96
Analyzed: see below

Reported: 09/11/96

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9609051-08 Sample Desc : **SOLID,P8-2.5**				
Lead	**mg/Kg**	**09/06/96**	**5.0**	**20**
Lab No: 9609051-09 Sample Desc : **SOLID,P9-2**				
Lead	**mg/Kg**	**09/06/96**	**5.0**	**13**
Lab No: 9609051-10 Sample Desc : **SOLID,P10-2.5**				
Lead	**mg/Kg**	**09/06/96**	**5.0**	**52**
Lab No: 9609051-11 Sample Desc : **SOLID,P11-3**				
Lead	**mg/Kg**	**09/06/96**	**5.0**	**15**
Lab No: 9609051-12 Sample Desc : **SOLID,P12-2.5**				
Lead	**mg/Kg**	**09/06/96**	**5.0**	**20**
Lab No: 9609051-13 Sample Desc : **SOLID,P13-3**				
Lead	**mg/Kg**	**09/06/96**	**5.0**	**36**
Lab No: 9609051-14 Sample Desc : **SOLID,P14-2.5**				
Lead	**mg/Kg**	**09/06/96**	**5.0**	**19**

Analytes reported as N.D. were not present above the stated limit of detection.

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Santa Rosa, CA 95405

Attention: Jeff Monroe

Client Proj. ID: Chevron 9-0121, 0121-1

Lab Proj. ID: 9609051

Sampled: 09/03/96
Received: 09/04/96
Analyzed: see below

Reported: 09/11/96

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9609051-15				
Sample Desc : **SOLID,P15-2.5**				
Lead	**mg/Kg**	**09/06/96**	**5.0**	**44**

Analytes reported as N.D. were not present above the stated limit of detection.

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Touchstone Developments	Client Proj. ID: Chevron 9-0121, 0121-1	Sampled: 09/03/96
P.O. Box 2554	Sample Descript: P1-3	Received: 09/04/96
Santa Rosa, CA 95405	Matrix: SOLID	Extracted: 09/05/96
	Analysis Method: 8015Mod/8020	Analyzed: 09/08/96
Attention: Jeff Monroe	Lab Number: 9609051-01	Reported: 09/11/96

QC Batch Number: GC090596BTEXEXB
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Methyl t-Butyl Ether	0.025	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	75

Analytes reported as N.D. were not present above the stated limit of detection.

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Touchstone Developments	Client Proj. ID: Chevron 9-0121, 0121-1	Sampled: 09/03/96
P.O. Box 2554	Sample Descript: P2-2	Received: 09/04/96
Santa Rosa, CA 95405	Matrix: SOLID	Extracted: 09/05/96
	Analysis Method: 8015Mod/8020	Analyzed: 09/08/96
Attention: Jeff Monroe	Lab Number: 9609051-02	Reported: 09/11/96

QC Batch Number: GC090596BTEXEXB
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Methyl t-Butyl Ether	0.025	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	80

Analytes reported as N.D. were not present above the stated limit of detection.

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Touchstone Developments	Client Proj. ID: Chevron 9-0121, 0121-1	Sampled: 09/03/96
P.O. Box 2554	Sample Descript: P3-2.5	Received: 09/04/96
Santa Rosa, CA 95405	Matrix: SOLID	Extracted: 09/05/96
	Analysis Method: 8015Mod/8020	Analyzed: 09/09/96
Attention: Jeff Monroe	Lab Number: 9609051-03	Reported: 09/11/96

QC Batch Number: GC090596BTEXEXB
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Methyl t-Butyl Ether	**0.025**	**0.63**
Benzene	**0.0050**	**0.0056**
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	**0.0050**	**0.0050**
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	106

Analytes reported as N.D. were not present above the stated limit of detection.

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Touchstone Developments	Client Proj. ID: Chevron 9-0121, 0121-1	Sampled: 09/03/96
P.O. Box 2554	Sample Descript: P4-2.5	Received: 09/04/96
Santa Rosa, CA 95405	Matrix: SOLID	Extracted: 09/05/96
	Analysis Method: 8015Mod/8020	Analyzed: 09/08/96
Attention: Jeff Monroe	Lab Number: 9609051-04	Reported: 09/11/96

QC Batch Number: GC090596BTEXEXB
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**50**	**710**
Methyl t-Butyl Ether	**1.2**	**15**
Benzene	0.25	N.D.
Toluene	**0.25**	**19**
Ethyl Benzene	**0.25**	**7.8**
Xylenes (Total)	**0.25**	**78**
Chromatogram Pattern:		**Gas**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	127

Analytes reported as N.D. were not present above the stated limit of detection.

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Touchstone Developments	Client Proj. ID: Chevron 9-0121, 0121-1	Sampled: 09/03/96
P.O. Box 2554	Sample Descript: P5-3	Received: 09/04/96
Santa Rosa, CA 95405	Matrix: SOLID	Extracted: 09/05/96
	Analysis Method: 8015Mod/8020	Analyzed: 09/08/96
Attention: Jeff Monroe	Lab Number: 9609051-05	Reported: 09/11/96

QC Batch Number: GC090596BTEXEXB
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**50**	**110**
Methyl t-Butyl Ether	1.2	N.D.
Benzene	0.25	N.D.
Toluene	0.25	N.D.
Ethyl Benzene	0.25	N.D.
Xylenes (Total)	**0.25**	**0.46**
Chromatogram Pattern:		
Unidentified HC		**C9-C12**

Surrogates	**Control Limits %**		**% Recovery**
Trifluorotoluene	70	130	77

Analytes reported as N.D. were not present above the stated limit of detection.

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Santa Rosa, CA 95405

Attention: Jeff Monroe

Client Proj. ID: Chevron 9-0121, 0121-1
Sample Descript: P6-3
Matrix: SOLID
Analysis Method: 8015Mod/8020
Lab Number: 9609051-06

Sampled: 09/03/96
Received: 09/04/96
Extracted: 09/05/96
Analyzed: 09/08/96
Reported: 09/11/96

QC Batch Number: GC090596BTEXEXB
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**1.0**	**1.3**
Methyl t-Butyl Ether	**0.025**	**2.5**
Benzene	**0.0050**	**0.021**
Toluene	**0.0050**	**0.15**
Ethyl Benzene	**0.0050**	**0.033**
Xylenes (Total)	**0.0050**	**0.18**
Chromatogram Pattern:		**Gas**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	77

Analytes reported as N.D. were not present above the stated limit of detection.

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Touchstone Developments	Client Proj. ID: Chevron 9-0121, 0121-1	Sampled: 09/03/96
P.O. Box 2554	Sample Descript: P7-3	Received: 09/04/96
Santa Rosa, CA 95405	Matrix: SOLID	Extracted: 09/05/96
	Analysis Method: 8015Mod/8020	Analyzed: 09/09/96
Attention: Jeff Monroe	Lab Number: 9609051-07	Reported: 09/11/96

QC Batch Number: GC090596BTEXEXB
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Methyl t-Butyl Ether	**0.025**	**0.49**
Benzene	0.0050	N.D.
Toluene	**0.0050**	**0.0071**
Ethyl Benzene	**0.0050**	**0.0063**
Xylenes (Total)	**0.0050**	**0.024**
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	89

Analytes reported as N.D. were not present above the stated limit of detection.

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Touchstone Developments
P.O. Box 2554
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Attention: Jeff Monroe

Client Proj. ID: Chevron 9-0121, 0121-1
Sample Descript: P8-2.5
Matrix: SOLID
Analysis Method: 8015Mod/8020
Lab Number: 9609051-08

Sampled: 09/03/96
Received: 09/04/96
Extracted: 09/05/96
Analyzed: 09/09/96
Reported: 09/11/96

QC Batch Number: GC090596BTEXEXB
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	300	4100
Methyl t-Butyl Ether	7.5	31
Benzene	1.5	33
Toluene	1.5	19
Ethyl Benzene	1.5	51
Xylenes (Total)	1.5	30
Chromatogram Pattern:		
Unidentified HC		C6-C12

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	124

Analytes reported as N.D. were not present above the stated limit of detection.

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Touchstone Developments	Client Proj. ID: Chevron 9-0121, 0121-1	Sampled: 09/03/96
P.O. Box 2554	Sample Descript: P9-2	Received: 09/04/96
Santa Rosa, CA 95405	Matrix: SOLID	Extracted: 09/05/96
	Analysis Method: 8015Mod/8020	Analyzed: 09/08/96
Attention: Jeff Monroe	Lab Number: 9609051-09	Reported: 09/11/96

QC Batch Number: GC090596BTEXEXB
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**100**	**1400**
Methyl t-Butyl Ether	**2.5**	**9.7**
Benzene	0.50	N.D.
Toluene	**0.50**	**22**
Ethyl Benzene	**0.50**	**5.4**
Xylenes (Total)	**0.50**	**5.0**
Chromatogram Pattern:		
Gas & Unidentified HC		**<C8**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	307 Q

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Touchstone Developments	Client Proj. ID: Chevron 9-0121, 0121-1	Sampled: 09/03/96
P.O. Box 2554	Sample Descript: P10-2.5	Received: 09/04/96
Santa Rosa, CA 95405	Matrix: SOLID	Extracted: 09/05/96
	Analysis Method: 8015Mod/8020	Analyzed: 09/08/96
Attention: Jeff Monroe	Lab Number: 9609051-10	Reported: 09/11/96

QC Batch Number: GC090596BTEXEXB
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**25**	**410**
Methyl t-Butyl Ether	0.62	N.D.
Benzene	**0.12**	**8.3**
Toluene	0.12	N.D.
Ethyl Benzene	**0.12**	**4.8**
Xylenes (Total)	**0.12**	**2.4**
Chromatogram Pattern:		
Gas & Unidentified HC		**<C8**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	246 Q

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Touchstone Developments	Client Proj. ID: Chevron 9-0121, 0121-1	Sampled: 09/03/96
P.O. Box 2554	Sample Descript: P11-3	Received: 09/04/96
Santa Rosa, CA 95405	Matrix: SOLID	Extracted: 09/05/96
	Analysis Method: 8015Mod/8020	Analyzed: 09/08/96
Attention: Jeff Monroe	Lab Number: 9609051-11	Reported: 09/11/96

QC Batch Number: GC090596BTEXEXB
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**100**	**1600**
Methyl t-Butyl Ether	2.5	N.D.
Benzene	**0.50**	**25**
Toluene	0.50	N.D.
Ethyl Benzene	**0.50**	**25**
Xylenes (Total)	**0.50**	**26**
Chromatogram Pattern:		
Gas & Unidentified HC		**<C8**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	227 Q

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Touchstone Developments	Client Proj. ID: Chevron 9-0121, 0121-1	Sampled: 09/03/96
P.O. Box 2554	Sample Descript: P12-2.5	Received: 09/04/96
Santa Rosa, CA 95405	Matrix: SOLID	Extracted: 09/05/96
	Analysis Method: 8015Mod/8020	Analyzed: 09/08/96
Attention: Jeff Monroe	Lab Number: 9609051-12	Reported: 09/11/96

QC Batch Number: GC090596BTEXEXB
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**200**	**2200**
Methyl t-Butyl Ether	5.0	N.D.
Benzene	**1.0**	**28**
Toluene	1.0	N.D.
Ethyl Benzene	**1.0**	**23**
Xylenes (Total)	**1.0**	**12**
Chromatogram Pattern:		
Gas & Unidentified HC		**<C8**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	162 Q

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Touchstone Developments	Client Proj. ID: Chevron 9-0121, 0121-1	Sampled: 09/03/96
P.O. Box 2554	Sample Descript: P13-3	Received: 09/04/96
Santa Rosa, CA 95405	Matrix: SOLID	Extracted: 09/05/96
	Analysis Method: 8015Mod/8020	Analyzed: 09/08/96
Attention: Jeff Monroe	Lab Number: 9609051-13	Reported: 09/11/96

QC Batch Number: GC090596BTEXEXB
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**25**	**290**
Methyl t-Butyl Ether	0.62	N.D.
Benzene	**0.12**	**6.1**
Toluene	**0.12**	**4.0**
Ethyl Benzene	**0.12**	**2.1**
Xylenes (Total)	**0.12**	**1.3**
Chromatogram Pattern:		
Gas & Unidentified HC		**<C8**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	289 Q

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Touchstone Developments	Client Proj. ID: Chevron 9-0121, 0121-1	Sampled: 09/03/96
P.O. Box 2554	Sample Descript: P14-2.5	Received: 09/04/96
Santa Rosa, CA 95405	Matrix: SOLID	Extracted: 09/05/96
	Analysis Method: 8015Mod/8020	Analyzed: 09/08/96
Attention: Jeff Monroe	Lab Number: 9609051-14	Reported: 09/11/96

QC Batch Number: GC090596BTEXEXB
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**200**	**2500**
Methyl t-Butyl Ether	5.0	N.D.
Benzene	**1.0**	**40**
Toluene	**1.0**	**20**
Ethyl Benzene	**1.0**	**27**
Xylenes (Total)	**1.0**	**76**
Chromatogram Pattern:		
Gas & Unidentified HC		**<C8**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	156 Q

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Touchstone Developments	Client Proj. ID: Chevron 9-0121, 0121-1	Sampled: 09/03/96
P.O. Box 2554	Sample Descript: P15-2.5	Received: 09/04/96
Santa Rosa, CA 95405	Matrix: SOLID	Extracted: 09/05/96
	Analysis Method: 8015Mod/8020	Analyzed: 09/08/96
Attention: Jeff Monroe	Lab Number: 9609051-15	Reported: 09/11/96

QC Batch Number: GC090596BTEXEXB
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**50**	**1000**
Methyl t-Butyl Ether	1.2	N.D.
Benzene	**0.25**	**23**
Toluene	0.25	N.D.
Ethyl Benzene	**0.25**	**13**
Xylenes (Total)	**0.25**	**3.0**
Chromatogram Pattern:		
Gas & Unidentified HC		**<C8**

Surrogates	**Control Limits %**		**% Recovery**
Trifluorotoluene	70	130	319 Q

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

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Touchstone Developments
P.O. Box 2554
Santa Rosa, CA 95405
Attention: Jeff Monroe

Client Proj. ID: Chevron 9-0121, 0121-1

Lab Proj. ID: 9609051

Received: 09/04/96

Reported: 09/11/96

LABORATORY NARRATIVE

TPPH note:
sample 9609051-04 was diluted 50 fold.
sample 9609051-05 was diluted 50 fold.
sample 9609051-08 was diluted 300 fold.
sample 9609051-09 was diluted 100 fold.
sample 9609051-10 was diluted 25 fold.
sample 9609051-11 was diluted 100 fold.
sample 9609051-12 was diluted 200 fold.
sample 9609051-13 was diluted 25 fold.
sample 9609051-14 was diluted 200 fold.
sample 9609051-15 was diluted 50 fold.

SEQUOIA ANALYTICAL

Kevin Follett
Project Manager

Sequoia Analytical

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Touchstone Developments
P.O. Box 2554
Santa Rosa, CA 95405
Attention: Jeff Monroe

Client Project ID: Chevron 9-0121, 0121-1
Matrix: Solid
Work Order #: 9609051 01-15

Reported: Sep 11, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC090596BTEXEXB	GC090596BTEXEXB	GC090596BTEXEXB	GC090596BTEXEXB
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	Porter	Porter	Porter	Porter
MS/MSD #:	960819006	960819006	960819006	960819006
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	9/5/96	9/5/96	9/5/96	9/5/96
Analyzed Date:	9/5/96	9/5/96	9/5/96	9/5/96
Instrument I.D.#:	GCHP22	GCHP22	GCHP22	GCHP22
Conc. Spiked:	0.20 mg/Kg	0.20 mg/Kg	0.20 mg/Kg	0.60 mg/Kg
Result:	0.17	0.17	0.17	0.50
MS % Recovery:	85	85	85	83
Dup. Result:	0.17	0.17	0.17	0.49
MSD % Recov.:	85	85	85	82
RPD:	0.0	0.0	0.0	2.0
RPD Limit:	0-25	0-25	0-25	0-25
LCS #:	BLK090596	BLK090596	BLK090596	BLK090596
Prepared Date:	9/5/96	9/5/96	9/5/96	9/5/96
Analyzed Date:	9/5/96	9/5/96	9/5/96	9/5/96
Instrument I.D.#:	GCHP22	GCHP22	GCHP22	GCHP22
Conc. Spiked:	0.20 mg/Kg	0.20 mg/Kg	0.20 mg/Kg	0.60 mg/Kg
LCS Result:	0.19	0.19	0.19	0.56
LCS % Recov.:	95	95	95	93
MS/MSD Control Limits	60-140	60-140	60-140	60-140
LCS Control Limits	70-130	70-130	70-130	70-130

SEQUOIA ANALYTICAL

Kevin Follett
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

Sequoia Analytical

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Touchstone Developments
P.O. Box 2554
Santa Rosa, CA 95405
Attention: Jeff Monroe

Client Project ID: Chevron 9-0121, 0121-1
Matrix: Solid
Work Order #: 9609051 01-15

Reported: Sep 11, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Beryllium	Cadmium	Chromium	Nickel
QC Batch#:	ME0906966010MDE	ME0906966010MDE	ME0906966010MDE	ME0906966010MDE
Analy. Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010
Prep. Method:	EPA 3050	EPA 3050	EPA 3050	EPA 3050
Analyst:	R. Butler	R. Butler	R. Butler	R. Butler
MS/MSD #:	960905101	960905101	960905101	960905101
Sample Conc.:	0.60	N.D.	41	80
Prepared Date:	9/6/96	9/6/96	9/6/96	9/6/96
Analyzed Date:	9/6/96	9/6/96	9/6/96	9/6/96
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	100 mg/Kg	100 mg/Kg	100 mg/Kg	100 mg/Kg
Result:	110	93	140	150
MS % Recovery:	109	93	99	70
Dup. Result:	110	95	140	160
MSD % Recov.:	109	93	99	80
RPD:	0.0	2.1	0.0	6.4
RPD Limit:	0-20	0-20	0-20	0-20
LCS #:	BLK090696	BLK090696	BLK090696	BLK090696
Prepared Date:	9/6/96	9/6/96	9/6/96	9/6/96
Analyzed Date:	9/6/96	9/6/96	9/6/96	9/6/96
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	100 mg/Kg	100 mg/Kg	100 mg/Kg	100 mg/Kg
LCS Result:	110	96	100	100
LCS % Recov.:	110	96	100	100
MS/MSD LCS Control Limits	80-120	80-120	80-120	80-120

SEQUOIA ANALYTICAL

Kevin Follett
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

Fax copy of Lab Report and COC to Chevron Contact: ☐ No

Chain-of-Custody-Record

Chevron U.S.A. Inc.
P.O. BOX 5004
San Ramon, CA 94583
FAX (415)842-9591

Chevron Facility Number 9-0121
Facility Address 3026 Lakeshore Ave, Oakland
Consultant Project Number 0121-1
Consultant Name Touchstone Developments
Address PO Box 2554 Santa Rosa, CA
Project Contact (Name) Jeff Monroe
(Phone) 5388818 (Fax Number) 5388812

Chevron Contact (Name) Riva Krakovsky
(Phone) 510 842 9500
Laboratory Name Seguoia
Laboratory Release Number 450 3021
Samples Collected by (Name) Jeff Monroe
Collection Date 9-3-96
Signature

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil A = Air W = Water C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	Analyses To Be Performed: BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd,Cr,Pb,Zn,Ni (ICAP or AA)	MTBE	Lead				Remarks
																X	X				9609051
P1-3	1	1	S	D	10:20		1/28	X													
P2-2	2				10:22																
P3-2.5	3				10:25																
P4-2.5	4				10:30																
P5-3	5				10:32																
P6-3	6				10:35																
P7-3	7				10:38																
P8-2.5	8				10:40																
P9-2	9				10:45																
P10-2.5	10				10:50																
P11-3	11				10:55																
P12-2.5	12				11:00																
P13-3	13				11:05																
P14-2.5	14 15				11:10																

Relinquished By (Signature)	Organization	Date/Time 715	Received By (Signature)	Organization	Date/Time	Turn Around Time (Circle Choice)
	TD	9-4-96				24 Hrs.
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	48 Hrs.
						5 Days
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time 715 9/4/96	10 Days
						As Contracted

COC-3.DWG/03 v1/mpl

Sequoia Analytical

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Touchstone Developments
P.O. Box 2554
Santa Rosa, CA 95405

Attention: Jeff Monroe

Client Proj. ID: Chevron 9-0121, 0121-1

Lab Proj. ID: 9609034

Sampled: 09/04/96
Received: 09/04/96
Analyzed: see below

Reported: 09/09/96

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9609034-01				
Sample Desc : **SOIL,PSP-1 (a-d) comp**				
Lead	**mg/Kg**	**09/05/96**	**5.0**	**55**

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

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Touchstone Developments
P.O. Box 2554
Santa Rosa, CA 95405

Attention: Jeff Monroe

Client Proj. ID: Chevron 9-0121, 0121-1
Sample Descript: PSP-1 (a-d) comp
Matrix: SOIL
Analysis Method: 8015Mod/8020
Lab Number: 9609034-01

Sampled: 09/04/96
Received: 09/04/96
Extracted: 09/04/96
Analyzed: 09/06/96
Reported: 09/09/96

QC Batch Number: GC090496BTEXEXA
Instrument ID: GCHP7

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**100**	**1000**
Benzene	**0.50**	**3.3**
Toluene	**0.50**	**3.0**
Ethyl Benzene	**0.50**	**8.4**
Xylenes (Total)	**0.50**	**4.8**
Chromatogram Pattern:		**Gas**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	98

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Touchstone Developments	Client Proj. ID: Chevron 9-0121, 0121-1	Received: 09/04/96
P.O. Box 2554		
Santa Rosa, CA 95405	Lab Proj. ID: 9609034	Reported: 09/09/96
Attention: Jeff Monroe		

LABORATORY NARRATIVE

TPPH note: sample 9609034-01 was diluted 100 fold.

SEQUOIA ANALYTICAL

Kevin Follett
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Touchstone Developments
P.O. Box 2554
Santa Rosa, CA 95405
Attention: Jeff Monroe

Client Project ID: Chevron 9-0121, 0121-1
Matrix: Solid
Work Order #: 9609034 01

Reported: Sep 9, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC090496BTEXEXA	GC090496BTEXEXA	GC090496BTEXEXA	GC090496BTEXEXA
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	Porter	Porter	Porter	Porter
MS/MSD #:	960919002	960919002	960919002	960919002
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	9/4/96	9/4/96	9/4/96	9/4/96
Analyzed Date:	9/4/96	9/4/96	9/4/96	9/4/96
Instrument I.D.#:	GCHP18	GCHP18	GCHP18	GCHP18
Conc. Spiked:	0.20 mg/Kg	0.20 mg/Kg	0.20 mg/Kg	0.60 mg/Kg
Result:	0.23	0.21	0.20	0.63
MS % Recovery:	115	105	100	105
Dup. Result:	0.24	0.22	0.20	0.65
MSD % Recov.:	120	110	100	92
RPD:	4.3	4.7	0.0	14
RPD Limit:	0-25	0-25	0-25	0-25
LCS #:	BLK090496	BLK090496	BLK090496	BLK090496
Prepared Date:	9/4/96	9/4/96	9/4/96	9/4/96
Analyzed Date:	9/4/96	9/4/96	9/4/96	9/4/96
Instrument I.D.#:	GCHP18	GCHP18	GCHP18	GCHP18
Conc. Spiked:	0.20 mg/Kg	0.20 mg/Kg	0.20 mg/Kg	0.60 mg/Kg
LCS Result:	0.24	0.22	0.20	0.64
LCS % Recov.:	120	110	100	107
MS/MSD Control Limits	60-140	60-140	60-140	60-140
LCS Control Limits	70-130	70-130	70-130	70-130

Please Note:
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SEQUOIA ANALYTICAL

Kevin Follett
Project Manager

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Touchstone Developments
P.O. Box 2554
Santa Rosa, CA 95405
Attention: Jeff Monroe

Client Project ID: Chevron 9-0121, 0121-1
Matrix: Solid
Work Order #: 9609034 01

Reported: Sep 9, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Beryllium	Cadmium	Chromium	Nickel
QC Batch#:	ME0905966010MDE	ME0905966010MDE	ME0905966010MDE	ME0905966010MDE
Analy. Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010
Prep. Method:	EPA 3050	EPA 3050	EPA 3050	EPA 3050
Analyst:	S. O'Donnell	S. O'Donnell	S. O'Donnell	S. O'Donnell
MS/MSD #:	960907601	960907601	960907601	960907601
Sample Conc.:	N.D.	N.D.	4.2	4.3
Prepared Date:	9/5/96	9/5/96	9/5/96	9/5/96
Analyzed Date:	9/5/96	9/5/96	9/5/96	9/5/96
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	100 mg/Kg	100 mg/Kg	100 mg/Kg	100 mg/Kg
Result:	98	94	100	100
MS % Recovery:	98	94	96	96
Dup. Result:	100	96	100	100
MSD % Recov.:	100	96	96	96
RPD:	2.0	2.1	0.0	0.0
RPD Limit:	0-20	0-20	0-20	0-20
LCS #:	BLK090596	BLK090596	BLK090596	BLK090596
Prepared Date:	9/5/96	9/5/96	9/5/96	9/5/96
Analyzed Date:	9/5/96	9/5/96	9/5/96	9/5/96
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	100 mg/Kg	100 mg/Kg	100 mg/Kg	100 mg/Kg
LCS Result:	100	97	100	100
LCS % Recov.:	100	97	100	100
MS/MSD LCS Control Limits	80-120	80-120	80-120	80-120

SEQUOIA ANALYTICAL

Kevin Follett
Project Manager

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** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

Fax copy of Lab Report and COC to Chevron Contact: ☐ No

Chain-of-Custody-Record

Chevron U.S.A. Inc.
P.O. BOX 5004
San Ramon, CA 94583
FAX (415)842-9591

Chevron Facility Number 9-0124
Facility Address 3026 Lakeshore Ave, Oakland
Consultant Project Number 0121-1
Consultant Name Blackstone Developments
Address ~~PO Box 254 Santa Rosa CA~~
Project Contact (Name) Jeff Monroe
(Phone) 707 538 8818 (Fax Number) 538 8812

Chevron Contact (Name) Kimi Kralovsky
(Phone) 510 842 9500
Laboratory Name Sequoia
Laboratory Release Number 450302 1
Samples Collected by (Name) Jeff Monroe
Collection Date 9-3-96
Signature Jeff

9609034

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil A = Air W = Water C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	Analyses To Be Performed: BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd,Cr,Pb,Zn,Ni (ICAP or AA)	Total Pb	Remarks
BP-East		4	S	C	11:30		Yes	X								X	48 hr

Relinquished By (Signature) — Organization — Date/Time 9-4-96 7:15 — Received By (Signature) — Organization — Date/Time
Relinquished By (Signature) — Organization — Date/Time — Received By (Signature) — Organization — Date/Time
Relinquished By (Signature) — Organization — Date/Time — Received For Laboratory By (Signature) — Date/Time 9/4/96 715

Turn Around Time (Circle Choice)
24 Hrs.
48 Hrs.
5 Days
10 Days
As Contracted

COC-3.DWG/03 01/MCH

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Touchstone Developments
P.O. Box 2554
Santa Rosa, CA 95405

Attention: Jeff Monroe

Client Proj. ID: Chevron 9-0121, 0121-1

Lab Proj. ID: 9609203

Sampled: 09/04/96
Received: 09/04/96
Analyzed: see below

Reported: 09/09/96

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9609203-01				
Sample Desc : **LIQUID,PSP-1 (a-d) Comp**				
Lead: STLC Extraction	**mg/L**	**09/09/96**	**0.10**	**1.3**

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Touchstone Developments
P.O. Box 2554
Santa Rosa, CA 95405
Attention: Jeff Monroe

Client Project ID: Chevron 9-0121, 0121-1
Matrix: Liquid
Work Order #: 9609203 01

Reported: Sep 10, 1996

QUALITY CONTROL DATA REPORT - STLC

Analyte:	Beryllium	Cadmium	Chromium	Nickel
QC Batch#:	ME0909966010MDB	ME0909966010MDB	ME0909966010MDB	ME0909966010MDB
Analy. Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010
Prep. Method:	EPA 3010	EPA 3010	EPA 3010	EPA 3010
Analyst:	R. Butler	R. Butler	R. Butler	R. Butler
MS/MSD #:	9608I9802	9608I9802	9608I9802	9608I9802
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	9/9/96	9/9/96	9/9/96	9/9/96
Analyzed Date:	9/9/96	9/9/96	9/9/96	9/9/96
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	1.0 mg/L	1.0 mg/L	1.0 mg/L	1.0 mg/L
Result:	1.0	1.0	1.0	1.0
MS % Recovery:	100	100	100	100
Dup. Result:	1.1	1.0	1.0	1.0
MSD % Recov.:	110	100	100	100
RPD:	9.5	0.0	0.0	0.0
RPD Limit:	0-20	0-20	0-20	0-20

LCS #:	BLK090996	BLK090996	BLK090996	BLK090996
Prepared Date:	9/9/96	9/9/96	9/9/96	9/9/96
Analyzed Date:	9/9/96	9/9/96	9/9/96	9/9/96
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	1.0 mg/L	1.0 mg/L	1.0 mg/L	1.0 mg/L
LCS Result:	1.0	1.0	0.99	0.99
LCS % Recov.:	100	100	99	99
MS/MSD LCS Control Limits	80-120	80-120	80-120	80-120

SEQUOIA ANALYTICAL

Kevin Follett
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

Sequoia Analytical Relog Sheet

Reason for Relog: (X) Client Request ( ) Login Correction ( ) Other: _____

CLIENT: Touchstone
PROJECT ID: Chev 0121-1
PROJ. MANAGER: Follett
MATRIX: Liquid (Solid) Other

DATE RELOG: 9-6-96
DATE DUE: 9-9-96
DATE SAMPLED: 9-3-96

PREVIOUSLY LOGGED IN SAMPLES

[X] TAT Change status to: 10Day 7Day 5Day 3Day 2Day (1Day) ASAP
Change status as of: Date: 9-9-96 Time: _____

[X] CHANGE ANALYSIS
Cancel Analysis [ ]
Add to this work order [ ]
Create new work order [X]

[ ] RERUN
Redigest & Reanalyze [ ]
Re-extract & Reanalyze [ ]
Reanalyze Only [ ]

New work order #: 9609203
Assign new sample #: [ ]

Sample Number	Analysis
9609034 - 01	STLC Lead

SAMPLES ON HOLD

New work order #: _____

Add analyses to existing work order [ ]
Create a new work order [ ]
TAT _____

Sample Description	Analyses

Client Authorization (person/date/time): Jeff Morse 9-6-96 @ 10:10
Project Manager: [signature]

Fax copy of Lab Report and COC to Chevron Contact: ☐ No

Chain-of-Custody-Record

Chevron U.S.A. Inc.
P.O. BOX 5004
San Ramon, CA 94583
FAX (415)842-9591

Chevron Facility Number 9-0124
Facility Address 3026 Lakeshore Ave, Oakland
Consultant Project Number 0424-1
Consultant Name Blackstone Development
Address ~~PO Box 2554 Santa Rosa, CA~~
Project Contact (Name) Jeff Monroe
(Phone) 707 588818 (Fax Number) 588812

Chevron Contact (Name) Rina Kaldsky
(Phone) 510 842 9500
Laboratory Name Sequoia
Laboratory Release Number 450302 1
Samples Collected by (Name) Jeff Monroe
Collection Date 9-3-96
Signature Jeff

9609034

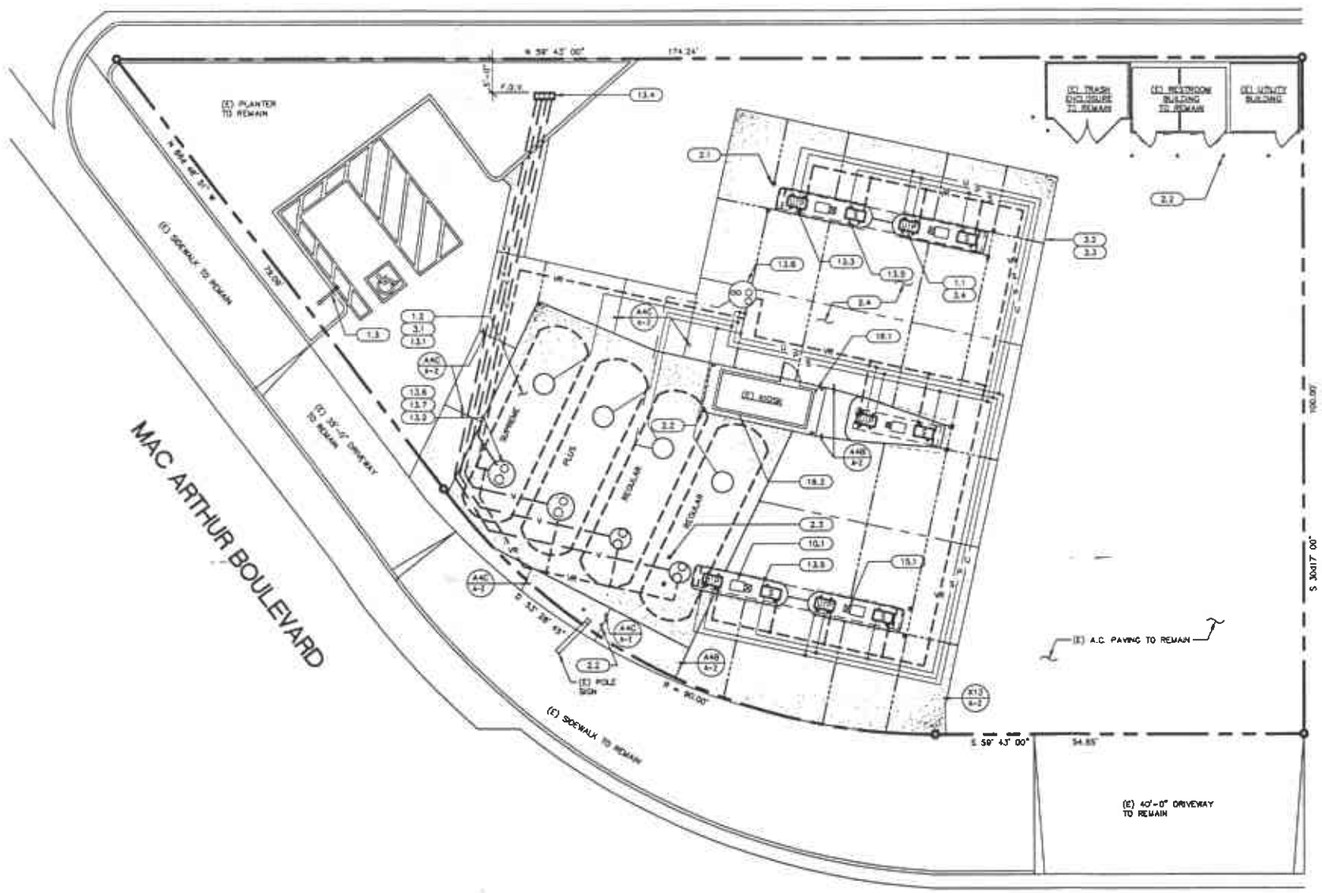
Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil A = Air W = Water C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	Analyses To Be Performed: BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd,Cr,Pb,Zn,Ni (ICAP or AA)	Total Pb					Remarks
BP-Lab1		4	S	C	11:30		Yes	X								X					48 hr

1 A-0

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
		7:15 9-4-96			
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time 715 9/4/96

Turn Around Time (Circle Choice)
24 Hrs.
~~48 Hrs.~~
5 Days
10 Days
As Contracted

COC-3.DWG/03 V1/MJH



NOTES

DIV/SR/TP332/NOTES32

YARD NOTES

1. THE INFORMATION REGARDING THE SITE WAS OBTAINED FROM AN EXISTING CHEVRON U.S.A. PRODUCTS COMPANY GROUND AND GRADE PLAN. THE CONTRACTOR SHALL VERIFY EXISTING SITE CONDITIONS AND VERIFY ALL SITE WORK TO BE DONE BEFORE COMMENCING WORK. IF SITE CONDITIONS OR DIMENSIONS DISAGREE WITH INFORMATION ON DRAWINGS OR CONFLICTS OCCUR, THE CONTRACTOR SHALL NOTIFY THE COMPANY REPRESENTATIVE BEFORE PROCEEDING WITH ANY WORK.
2. CONTRACTOR RESPONSIBLE FOR HIRING SURVEYOR TO STAKE PROPERTY LINES AND BUILDING LOCATIONS IF REQUIRED. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING SURVEY MONUMENTS OR MARKERS DURING CONSTRUCTION.
3. THE CONTRACTOR SHALL MAKE PROVISIONS TO HAVE ALL EXISTING ON-SITE CONDUIT LINES AND UTILITY LINES ABANDONED, AND REMOVE IF THEY ARE INTERFERING WITH PROPOSED CONSTRUCTION. RELOCATE EXISTING LINES THAT NEED TO BE IN OPERATION IF THEY INTERFERE WITH PROPOSED CONSTRUCTION. CAP ENDS OF EXISTING ABANDONED PIPES IN ACCORDANCE U.P.C.
4. CANOPY GUTTERS AND DRAIN LINES SHALL BE CLEANED AND WATER TESTED TO INSURE PROPER DRAINAGE.
5. FIRE EXTINGUISHERS WITH A MINIMUM RATING OF 2A20BC SHALL BE PROVIDED AND LOCATED BY CONTRACTOR SUCH THAT THEY ARE NOT MORE THAN 75 FEET FROM ANY DISPENSER OR FILL-PIPE OPENINGS (U.F.C. 79.503). CONSULT CHEVRON REPRESENTATIVE AND FIRE MUNICIPALITY REPRESENTATIVE FOR EXACT LOCATION AND INSTALLATION METHOD.
6. CONTRACTOR SHALL CLEAN ALL SURFACES OF GRAFFITI AND REPAINT IF NECESSARY (DO NOT PAINT EXISTING UNPAINTED MASONRY SURFACES).

PIPING NOTES

1. PIPING SHOWN SCHEMATICALLY. CONTRACTOR SHALL INSTALL PIPING PER FIELD CONDITIONS WITH CHEVRON REPRESENTATIVE'S APPROVAL.
2. ANY UNDERGROUND UTILITIES CROSSING SITE SHALL NOT CROSS OVER/UNDER PRODUCT, VAPOR OR VENT PIPING. IF A CONFLICT IS ANTICIPATED NOTIFY CHEVRON REPRESENTATIVE PRIOR TO COMMENCEMENT OF WORK.
3. ALL PRODUCT, VENT AND VAPOR RETURN LINES SHALL SLOPE 1/4" PER FOOT UPWARD FROM TANK (1/8" PER FOOT MIN.)

PAVING NOTES

1. CONTRACTOR MUST VERIFY THAT SITE DRAINAGE IS NOT IMPAIRED BY NEW SITE IMPROVEMENTS. IN THE EVENT THAT A PROBLEM WITH THE DRAINAGE FLOW IS DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE COMPANY REPRESENTATIVE BEFORE PROCEEDING WITH ANY WORK IN THE PROBLEM AREA.
2. ALL NEW ASPHALTIC CONCRETE PAVING AND CONCRETE WORK SHALL MATCH THE EXISTING GRADES AT LIMITS OF WORK. DRAIN CONCRETE SLABS AWAY FROM FROM DISPENSERS AND BUILDINGS.
3. REPLACE EXISTING A.C. PAVING AND/OR CONCRETE AS REQUIRED DUE TO NEW CONSTRUCTION. INSTALL NEW PAVING PER CUSA SPECIFICATIONS.
4. EXISTING A.C. PAVING AND/OR CONCRETE SHALL BE CUT TO A NEAT, STRAIGHT LINE (WHEN APPLICABLE). A.C. PAVING EXPOSED EDGES SHALL BE TACKED WITH EMULSION PRIOR TO PAVING.
5. NEW CONCRETE PAVING TO BE SEALED ENTIRELY WITH C & L COATING MB-35 AQUA-ORETE. SEAL ALL CONCRETE JOINTS PER CHEVRON REPRESENTATIVE'S DIRECTION.

KEY NOTES

DIVISION I - DEMOLITION

1.1 ISLANDS, DISPENSERS (TO BE REMOVED AND REINSTALLED. DOCUMENT LOCATION OF DISPENSERS PRIOR TO DEMOLITION) AND PETROLEUM PIPING
1.2 FUEL STORAGE TANK SLAB
1.3 METAL PRICE SIGN

DIVISION 2 - SITEWORK

2.1 6" SQ. STEEL GUARDPOST, SEE DETAIL K10 ON SHEET A-2 (TYP. OF 6)
2.2 REPLACE (E) GUARDPOST W/ (N) 4" SQ. STEEL GUARDPOST, SEE DETAIL D10 ON SHEET A-2 (TYP. OF 3 AT POLE SIGN, 8 AT RESTROOMS/TRASH ENCLOSURE AND 4 AROUND KIOSK)
2.3 6" SQ. STEEL GUARDPOST, WITH SPECIAL SPREAD FOOTING SEE DETAIL G7 ON SHEET A-2. SET TO CLEAR TANK FITTING AS SHOWN (TYP. OF 2)
2.4 THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING, REMOVAL AND RESETTING OF ALL EXISTING MONITORING WELLS, MANHOLE CLEANOUTS, (OR OTHER STRUCTURES TO REMAIN) TO FINISH GRADE.

DIVISION 3 - CONCRETE

3.1 TANK SLAB, SEE SHEET F-4 FOR DETAILS AND JOINT LAYOUT
3.2 SAWCUT (E) CONCRETE PAVEMENT AS DIRECTED BY CHEVRON ENGINEER FOR INSTALLATION OF (N) PIPING, ISLANDS, CONTAINMENT SUMPS, CONDUITS AND MONITORING SYSTEM, CONSULT CHEVRON ENGINEER TO DETERMINE ACTUAL EXTENT.
3.3 (N) CONCRETE DRIVE SLAB, SEE DETAIL K13 ON SHEET A-2.
3.4 DISPENSER ISLANDS, SEE DETAILS A10 & G13, SHEET A-2.

DIVISION 10 - SPECIALTIES

10.1 (N) TRASH VALET (TYP. OF 5)

DIVISION 13 - SPECIAL CONSTRUCTION

13.1 (E) 10,000 GALLON, 8' DIAMETER SINGLE WALL FRP FUEL STORAGE TANK (TYP. OF 4) WITH (N) 1 1/2 H.P. TURBINE PUMPS, SPILL CONTAINMENT, MONITOR SYSTEM & DOUBLE WALL PRODUCT PIPING, SEE F-SHEETS. PRODUCT ORDER TO BE CHANGED AS SHOWN. DIESEL FUEL TO BE ELIMINATED
13.2 CONTAINMENT SUMP AT FILL AND TURBINE ENDS OF TANK WITH SUMP MONITORING
13.3 RESET AT SAME LOCATION (E) HW 9 DISPENSER W/ (N) SUMP CONTAINMENT, PIT BOX AND MONITOR
13.4 CONNECT (N) VENT LINES TO (E) RISERS BELOW GRADE, SEE DETAIL 2, SHT F-11
13.5 RETROFIT (E) TWO PRODUCT HW 9 DISPENSER TO ONE PRODUCT HW 9 DISPENSER, ELIMINATE DIESEL (TYP. OF 2)
13.6 INSTALL DROP TUBE PROTECTOR AT FILL OF (E) TANK (TYP. OF 4)
13.7 REPLACE (E) BALL FLOAT VALVES W/ (N) BALL FLOAT VALVES (TYP. OF 4 TANKS)
13.8 VAPOR MIST, SEE SHEET F-10

DIVISION 15 - MECHANICAL

15.1 CONNECT (E) CANOPY DOWNSPOUTS TO EXISTING DRAINS AS REQUIRED. MAINTAIN EXISTING SLOPE AND PIPE SIZE. SEE DETAIL D13 ON SHEET A-2.

DIVISION 16 - ELECTRICAL

16.1 (N) EMERGENCY PUMP SHUT-OFF, SEE SHEET E-1
16.2 TANK OVERFILL AUDIBLE AND VISUAL ALARM, SEE SHEET E-1

SITE PLAN ABBREVIATIONS AND LEGEND

DIV\SR\TP332\LEG-1333

℄	= CENTER LINE	(N)	= NEW
COL.	= COLUMN	R	= RADIUS
(E)	= EXISTING	SHT.	= SHEET
EQ.	= EQUAL	(SIM.)	= SIMILAR
F.R.P.	= FIBERGLASS REINFORCED PIPE	(TYP.)	= TYPICAL
F.O.V.	= FACE OF VENT		

DISPENSER
VENT RISER
(E) CONSTRUCTION TO BE REMOVED
(N) CONCRETE SLAB
U — UNLEADED PRODUCT, DOUBLE WALL F.R.P., SLOPE TOWARD TANKS
P — PLUS PRODUCT, DOUBLE WALL F.R.P., SLOPE TOWARD TANKS
S — SUPREME PRODUCT, DOUBLE WALL F.R.P., SLOPE TOWARD TANKS
V — VENT, SINGLE WALL F.R.P., SLOPE TOWARD TANKS
VR — VAPOR, SINGLE WALL F.R.P., SLOPE TOWARD TANKS
SL — SUCTION LINE
ISOLATION JOINT, SEE DETAIL AAA ON SHEET A-2
EXPANSION JOINT, SEE DETAIL AAB ON SHEET A-2
CONTROL JOINT, SEE DETAIL AAC ON SHEET A-2

MARK	DATE	REVISIONS	INITIAL

SITE PLAN

9-0121
3026 LAKESHORE AVENUE
OAKLAND, CALIFORNIA

Chevron

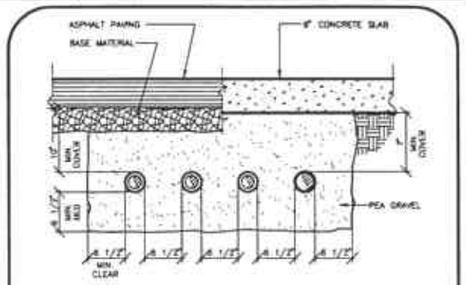
ROBERT H. LEE & ASSOCIATES, INC.
ARCHITECTURE ENGINEERING ENVIRONMENTAL SERVICES
1127 NORTH MCDOWELL BOULEVARD PETALUMA CA. 94954 (707) 765-1660
JOHN W. JOHNSON, ARCHITECT JAMES H. RAY, CIVIL ENGINEER

PRE-L REVIEW	INITIAL	DATE
PRELIMINARY		
PLANNING		
STEEL SET		
BLDG PERMIT		
GENERAL SET		
PERMIT REVS		
CONSTRUCTION		

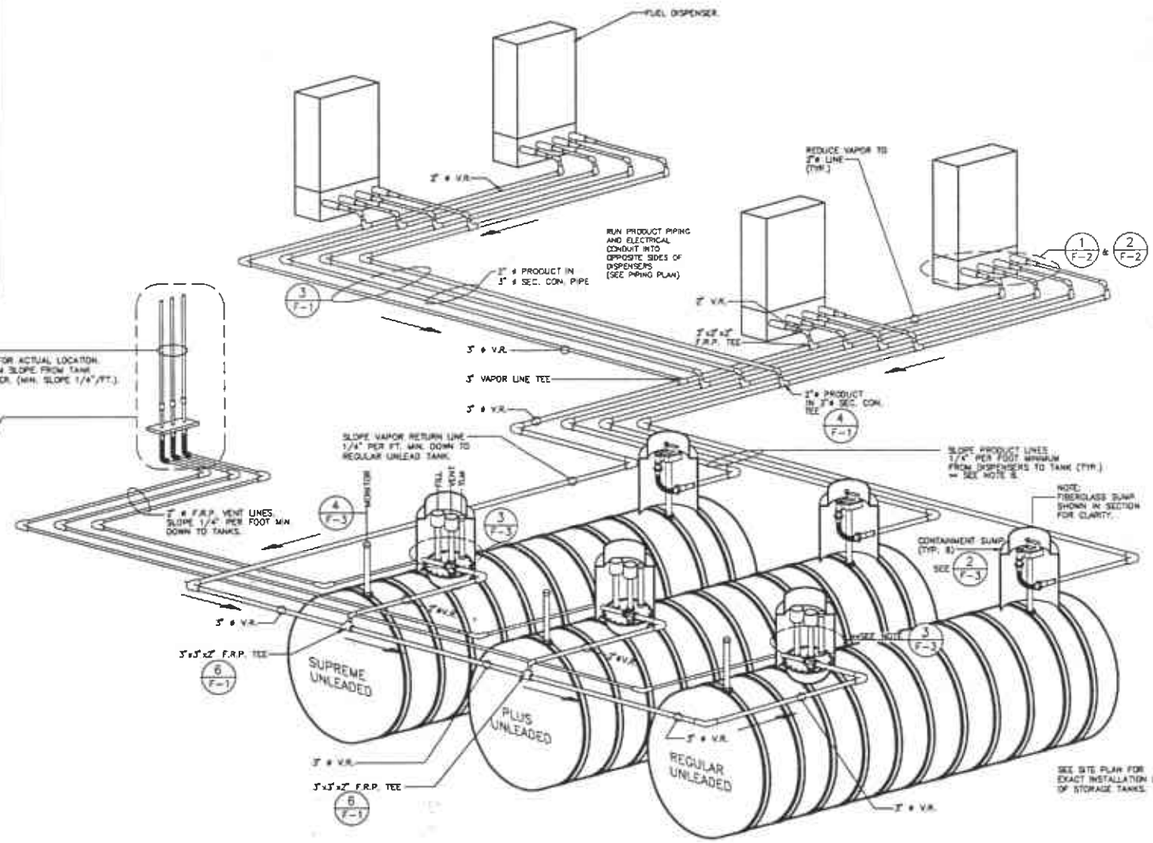
Do not use drawing for construction unless initialed

DATE: 05AUG96
DR. BY:
APPR.:
PROJ. # 9841.10
SHEET
A-1

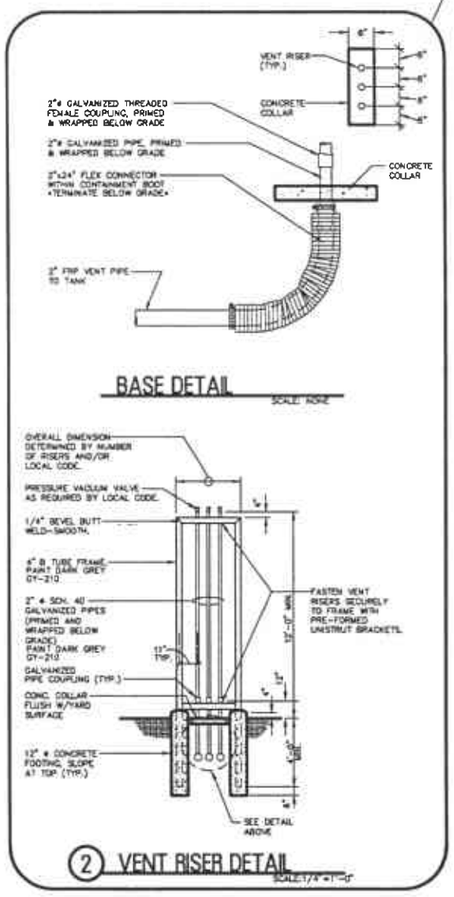
DRAWING No. F:\CAD\9841\9841A1 Username:KGM AUG 13, 1996 15:58 Scale:120



3 PIPE TRENCH DETAIL
SCALE: N.T.S.



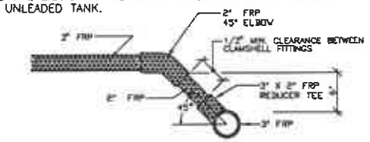
1 UNDERGROUND TANK & PIPING ISOMETRIC
SCALE: NONE



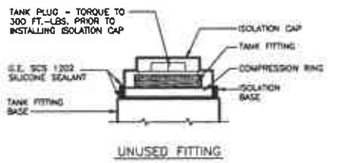
BASE DETAIL
SCALE: NONE

2 VENT RISER DETAIL
SCALE: 1/4"=1'-0"

NOTE:
THE CONNECTION FOR REGULAR UNLEADED DOES NOT REQUIRE THE 6" RISE. ANY POTENTIAL LIQUID IN THE VAPOR PIPE SHALL FALL INTO THE REGULAR UNLEADED TANK.

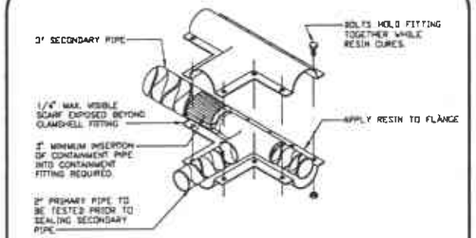


6 PHASE II VAPOR LINE CONNECTIONS
(PLUS UNLEADED AND SUPREME UNLEADED)

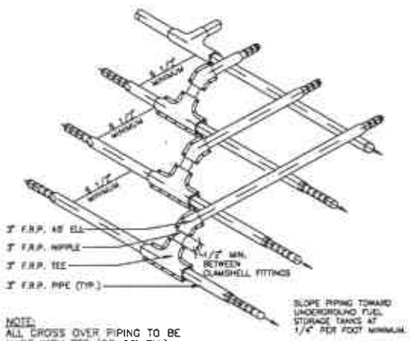


UNUSED FITTING

5 TANK FITTING ISOLATION DETAIL



CONTAINMENT FITTING
SCALE: NONE



NOTE:
ALL CROSS OVER PIPING TO BE MADE WITH TEE (OR 90° ELL), SHORT NIPPLE AND 45° ELL.

4 PIPING CROSSOVER DETAIL
SCALE: NONE

NOTES:

1. TYPICAL PIPING LAYOUT SHOWN FOR MULTI-PRODUCT DISPENSERS. SEE PLANS FOR SPECIFIC DISPENSER TYPE AND CONFIGURATION FOR THIS SITE.
2. ALL PRODUCT LINES ARE TO BE SECONDARILY CONTAINED.
3. EVERY TANK CONTAINMENT SUMP AND DISPENSER CONTAINMENT SUMP SHALL CONTAIN A LIQUID SENSING PROBE.
4. CAULK THE BOTTOM OF THE DISPENSERS TO INSURE WATER TIGHTNESS.
5. PERPENDICULAR PENETRATION OF THE CONTAINMENT SUMPS ARE PREFERRED. 20° IS THE MAXIMUM ALLOWABLE PENETRATION ANGLE.
6. SPARE ELECTRICAL CONDUITS MUST BE SEALED.
7. SEE SHEET E-1 FOR ELECTRICAL CONDUIT LAYOUT.
8. OBTAIN WRITTEN APPROVAL FROM CHEVRON FOR LESS THAN 1/4" PER FOOT SLOPE ON PRODUCT, VAPOR AND VENT LINES.
9. ALL STEEL TANK RISERS @ FILL END ARE TO BE SCH. 40 GALVANIZED PIPE. PRIME AND WRAP ALL STEEL PIPING AND RISERS.
10. ALL STEEL DISPENSER PIPING AND FITTINGS ARE TO BE SCH. 40 BLACK IRON. PRIME ALL BLACK IRON FITTINGS. PRIME AND WRAP STEEL PIPING AND RISERS.
11. USE ALL SCH. 40 BLACK IRON PIPING AND FITTINGS FOR DIESEL INSTALLATIONS. PRIME AND WRAP ALL STEEL PIPING AND RISERS.

NOTE: ALL VAPOR RECOVERY LINES TO BE SECONDARILY CONTAINED

FOR REFERENCE ONLY

TANK + PIPING ISOMETRIC PHASE I+II VAPOR RECOVERY

9-0121
3026 LAKESHORE AVENUE
OAKLAND, CALIFORNIA

Chevron

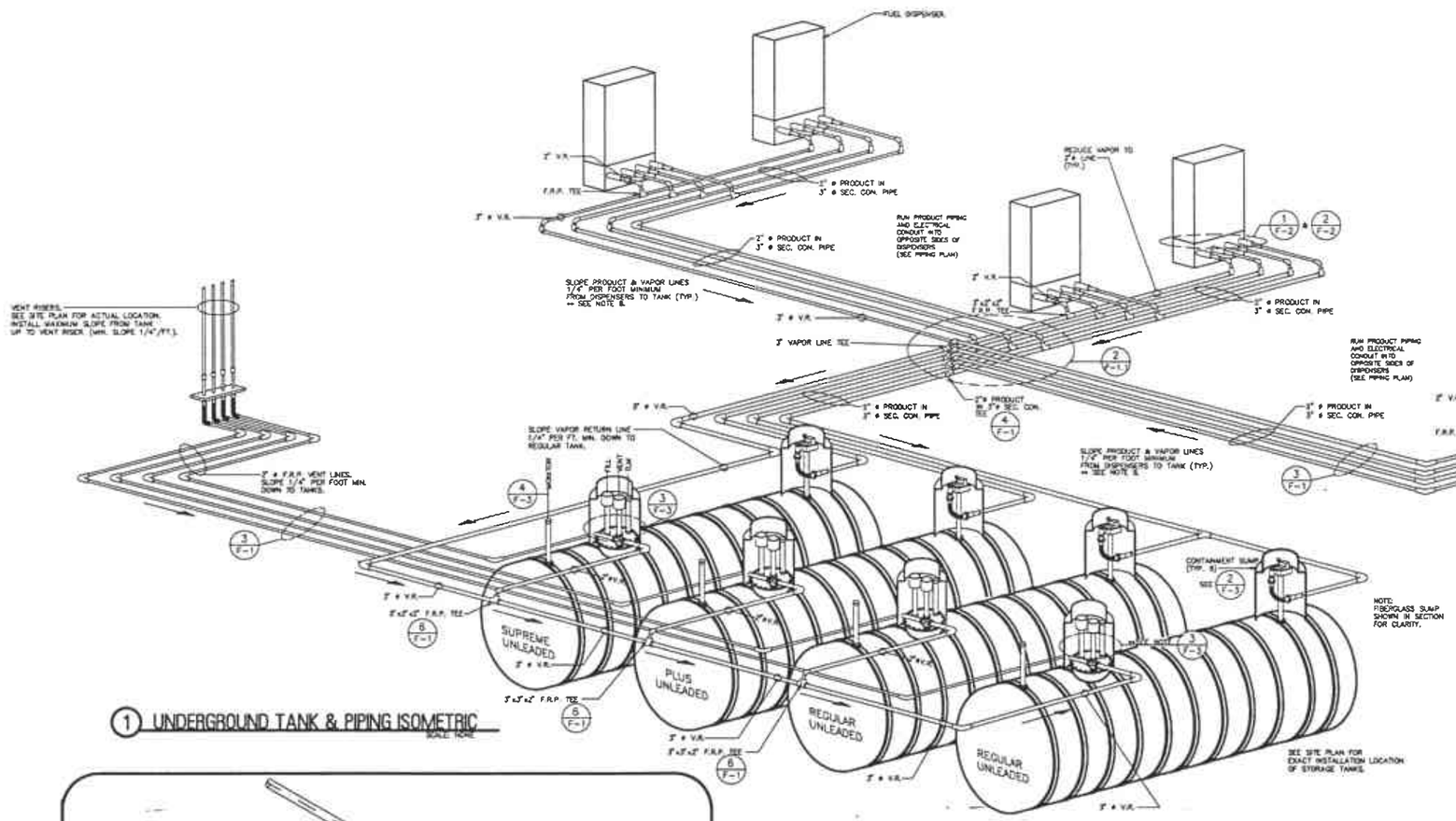
ROBERT H. LEE & ASSOCIATES, INC.
ARCHITECTURE ENGINEERING ENVIRONMENTAL SERVICES
1121 NORTH McDOWELL BOULEVARD PETALUMA CA. 94954 (707) 765-1960
JOHN H. JOHNSON, ARCHITECT JAMES H. RAY, CIVIL ENGINEER

PH-L REVIEW	INITIAL	DATE
PRELIMINARY		
PLANNING		
STEEL BID		
BLDG PERMIT		
GENERAL BID		
PERMIT REV'S		
CONSTRUCTION		

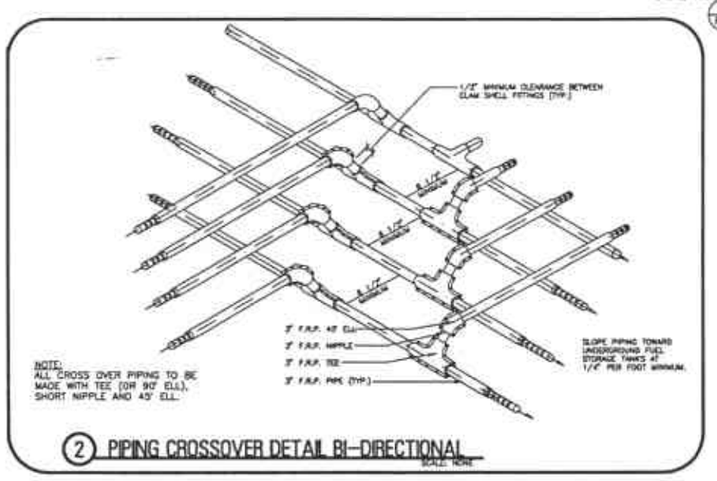
Do not use drawing for construction unless initialed

DATE: 22-JUL-96
DR. BY:
APPR.:
RHL # 9841.10
SHEET F-1

ALAMEDA COUNTY TYPICALS
JUL 22, 1996 13:30 Scale:1 Username:JRR
DRAWING No. F:\CAD\9841\TANKS\9841F1
AREA 4



1 UNDERGROUND TANK & PIPING ISOMETRIC
SCALE: NONE



2 PIPING CROSSOVER DETAIL BI-DIRECTIONAL
SCALE: NONE

NOTES:

1. TYPICAL PIPING LAYOUT SHOWN FOR MULTI-PRODUCT DISPENSERS. SEE PLANS FOR SPECIFIC DISPENSER TYPE AND CONFIGURATION FOR THIS SITE.
2. ALL PRODUCT LINES ARE TO BE SECONDARILY CONTAINED.
3. EVERY TANK CONTAINMENT SUMP AND DISPENSER CONTAINMENT SUMP SHALL CONTAIN A LIQUID SENSING PROBE.
4. CAULK THE BOTTOM OF THE DISPENSERS TO INSURE WATER TIGHTNESS.
5. PERPENDICULAR PENETRATIONS OF THE CONTAINMENT SUMPS ARE PREFERRED. 20° IS THE MAXIMUM ALLOWABLE PENETRATION ANGLE.
6. SPARE ELECTRICAL CONDUITS MUST BE SEALED.
7. SEE SHEET E-1 FOR ELECTRICAL CONDUIT LAYOUT.
8. OBTAIN WRITTEN APPROVAL FROM CHEVRON FOR LESS THAN 1/4" PER FOOT SLOPE ON PRODUCT, VAPOR AND VENT LINES.
9. ALL STEEL TANK RISERS & FILL END ARE TO BE SCH. 40 GALVANIZED PIPE. PRIME AND WRAP ALL STEEL PIPING AND RISERS.
10. ALL STEEL DISPENSER PIPING AND FITTINGS ARE TO BE SCH. 40 BLACK IRON. PRIME ALL BLACK IRON FITTINGS. PRIME AND WRAP STEEL PIPING AND RISERS.
11. USE ALL SCH. 40 BLACK IRON PIPING AND FITTINGS FOR DIESEL INSTALLATIONS. PRIME AND WRAP ALL STEEL PIPING AND RISERS.
12. FOR MANIFOLDED UNLEAD TANKS USING RED JACKET SUBMERSIBLE TURBINE PUMPS INSTALL A "MORRISON" CHECK VALVE #330-25T OR APPROVED EQUAL AT EACH UNLEAD PUMP DISCHARGE.

EXISTING TANKS TO REMAIN
TANKS ARE SHOWN FOR REFERENCE ONLY

TANK + PIPING ISOMETRIC MANIFOLDED w/VAPOR RECOVERY

9-0121
3026 LAKESHORE AVENUE
OAKLAND, CALIFORNIA

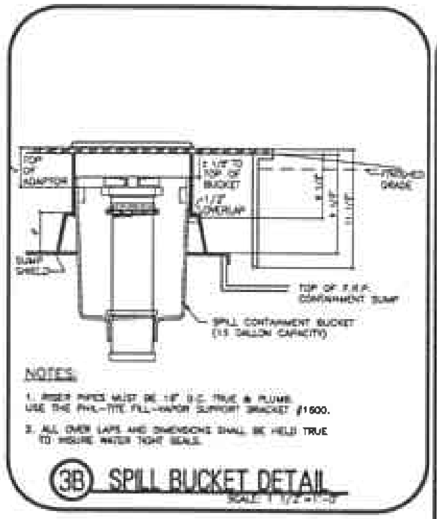
Chevron

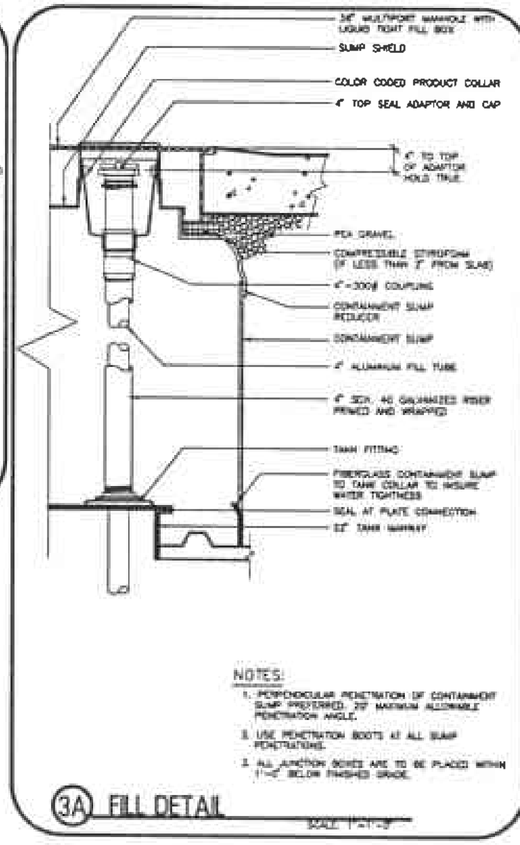
ROBERT H. LEE & ASSOCIATES, INC.
ARCHITECTURE ENGINEERING ENVIRONMENTAL SERVICES
1121 NORTH MAIDWELL BOULEVARD PETALUMA CA 94954 (707) 765-1900
JOHN H. JOHNSON, ARCHITECT JAMES H. RAY CIVIL ENGINEER

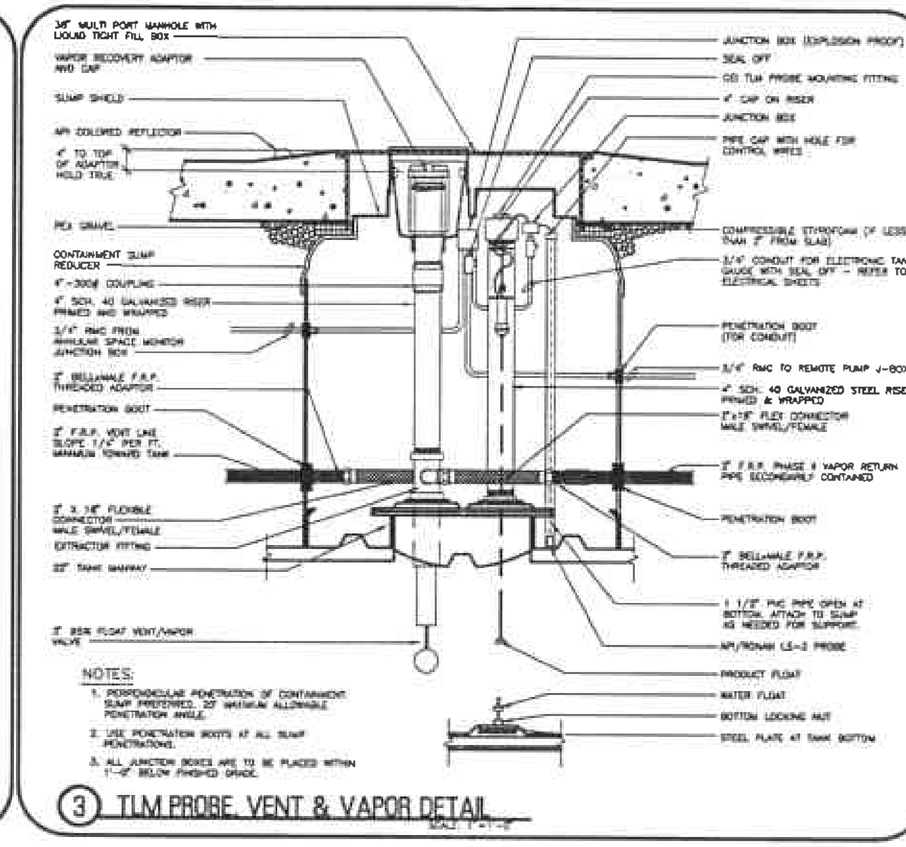
REVISION	INITIAL	DATE
PRELIMINARY		
PLANNING		
STEEL SET		
BLDG PERMIT		
GENERAL SET		
PERMIT REVS		
CONSTRUCTION		

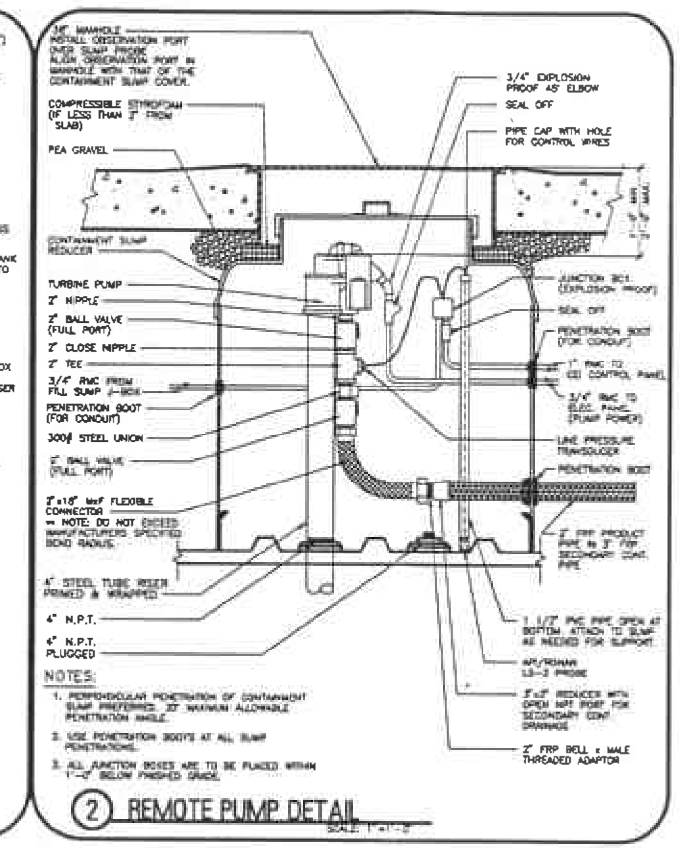
DATE DRAWING
CK. BY
APPR.
RHL # 88411.10
SHEET F-1.1

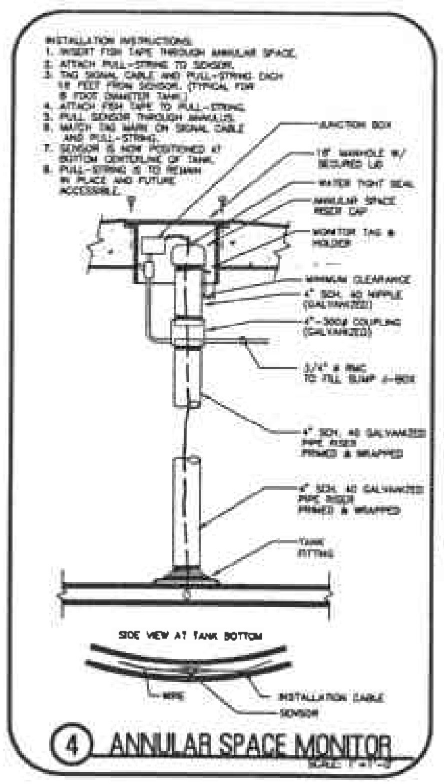
DRAWING No. F:\CAD\88411\TANKSF1-1M AUG 09, 1995 14:16 Scale:1 Username:KDJ

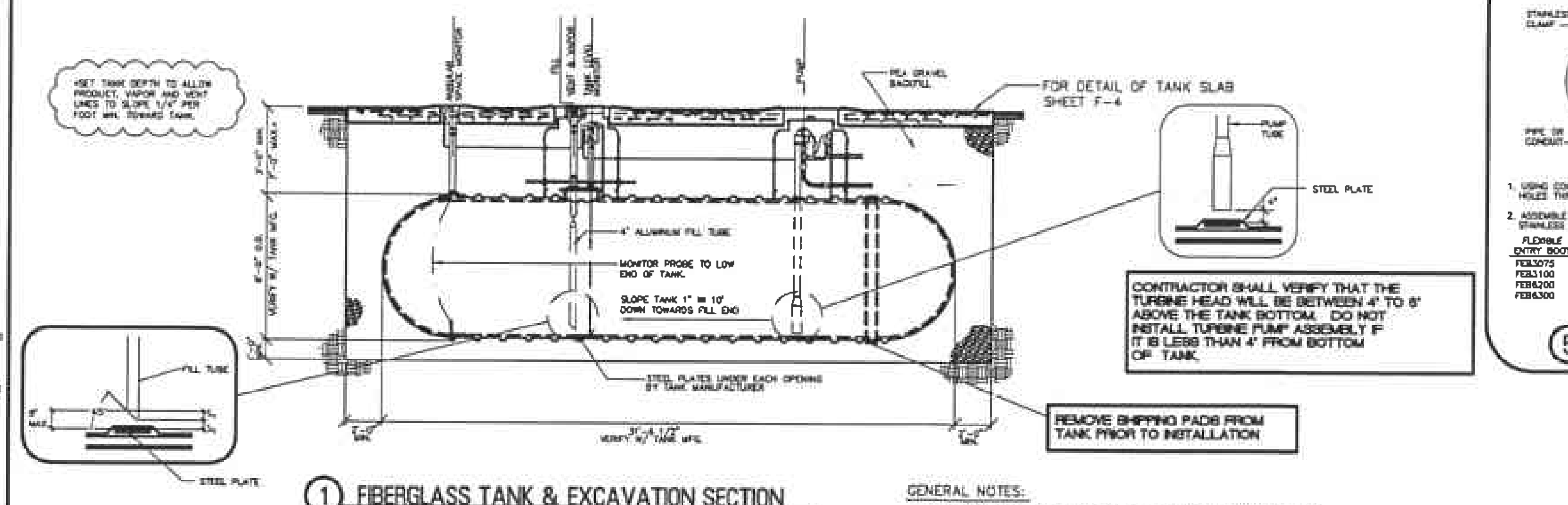




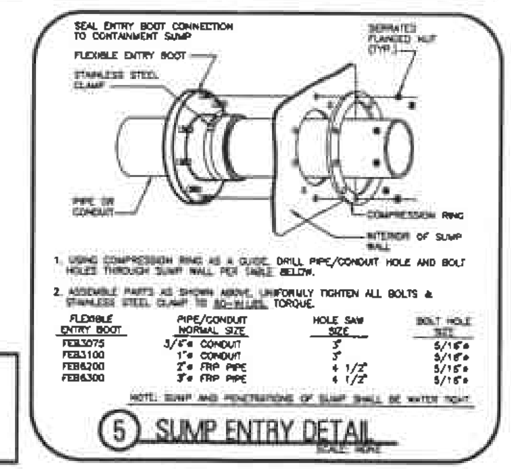








FOR DETAIL OF TANK SLAB SHEET F-4
PEA GRAVEL BACKFILL
4" ALUMINUM FILL TUBE
MONITOR PROBE TO LOW END OF TANK
SLOPE TANK 1" IN 10' DOWN TOWARDS FILL END
STEEL PLATES UNDER EACH OPENING BY TANK MANUFACTURER
STEEL PLATE
FILL TUBE
CONTRACTOR SHALL VERIFY THAT THE TURBINE HEAD WILL BE BETWEEN 4" TO 6" ABOVE THE TANK BOTTOM. DO NOT INSTALL TURBINE PUMP ASSEMBLY IF IT IS LESS THAN 4" FROM BOTTOM OF TANK.
REMOVE SHIPPING PADS FROM TANK PRIOR TO INSTALLATION
1 FIBERGLASS TANK & EXCAVATION SECTION



SEAL ENTRY BOOT CONNECTION TO CONTAINMENT SUMP
FLEXIBLE ENTRY BOOT
STAINLESS STEEL CLAMP
PIPE OR CONDUIT
COMPRESSION RING
INTERIOR OF SUMP WALL
1. USING COMPRESSION RING AS A GUIDE, DRILL PIPE/CONDUIT HOLE AND BOLT HOLES THROUGH SUMP WALL PER TABLE BELOW.
2. ASSEMBLE PARTS AS SHOWN ABOVE, UNIFORMLY TIGHTEN ALL BOLTS & STAINLESS STEEL CLAMP TO 60-IN-LBS. TORQUE.
FLEXIBLE ENTRY BOOT | PIPE/CONDUIT NORMAL SIZE | HOLE SAW SIZE | BOLT HOLE SIZE
FEB3075 | 3/4"ø CONDUIT | 3" | 5/16"ø
FEB3100 | 1"ø CONDUIT | 3" | 5/16"ø
FEB6200 | 2"ø FRP PIPE | 4 1/2" | 5/16"ø
FEB6300 | 3"ø FRP PIPE | 4 1/2" | 5/16"ø
NOTE: SUMP AND PENETRATIONS OF SUMP SHALL BE WATER TIGHT.
5 SUMP ENTRY DETAIL

GENERAL NOTES:

1. ALL GASOLINE TANK RISERS @ FILL END TO BE SCHEDULE 40 GALVANIZED PIPING. SCHEDULE 40 BLACK IRON RISERS & FITTING SHALL BE USED FOR DIESEL TANK INSTALLATIONS.
2. PRODUCT, VENT AND VAPOR LINE SIZE TO BE AS NOTED ON SHEET F-1 AND PIPING PLAN.
3. ALL STEEL PIPE TO BE PRIMED AND WRAPPED. ALL RMC TO BE WRAPPED.
4. SEE SITE PLAN FOR EXACT LOCATION OF PRODUCT TANKS.
5. SEE SITE PLAN FOR VENT RISER LOCATION.
6. J-BOX SHALL HAVE 2" MINIMUM CLEARANCE FROM SUMP WALL.
7. USE ALL RIGID METAL CONDUIT, EITHER PVC COATED OR WRAPPED, IN THE TANK HOLE.
8. CONTACT CHEVRON ENGINEER REGARDING 15 GALLON SPILL BUCKET REQUIREMENTS.
9. ALL VAPOR RECOVERY LINES SHALL BE SECONDARILY CONTAINED.

FOR REFERENCE ONLY

SECTION + DETAILS 10k GAL. 8' ø TANKS

9-0121
3026 LAKESHORE AVENUE
OAKLAND, CALIFORNIA

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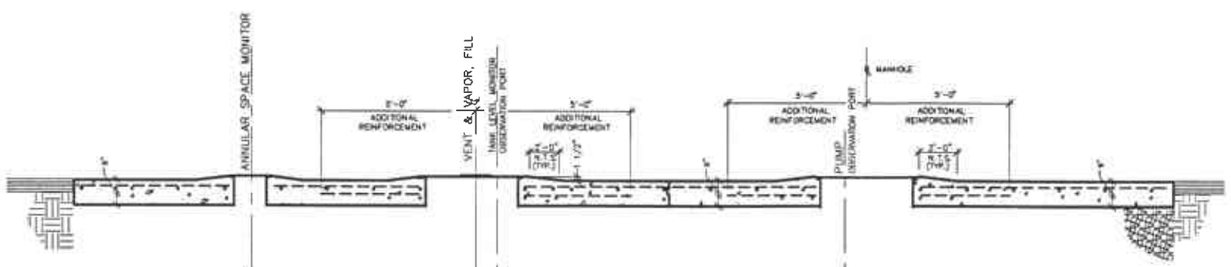
ROBERT H. LEE & ASSOCIATES, INC.
ARCHITECTURE ENGINEERING ENVIRONMENTAL SERVICES

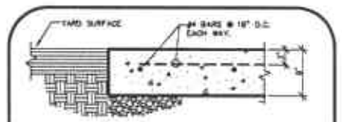
SHEET F-3

ALAMEDA COUNTY TYPICALS

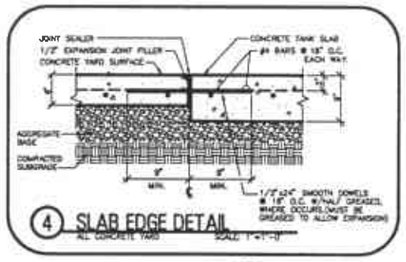
DRAWING No. F:\CAD\88411\TANKS\88411F3 JUL 22, 1998 13:35 Scale:1 Username: JRR



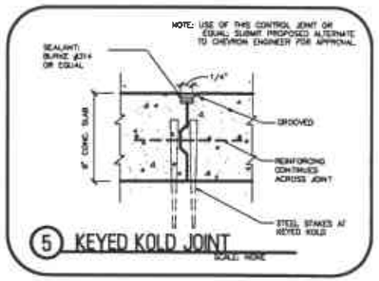
2 CONCRETE TANK SLAB SECTION
SCALE: 1/2"=1'-0"



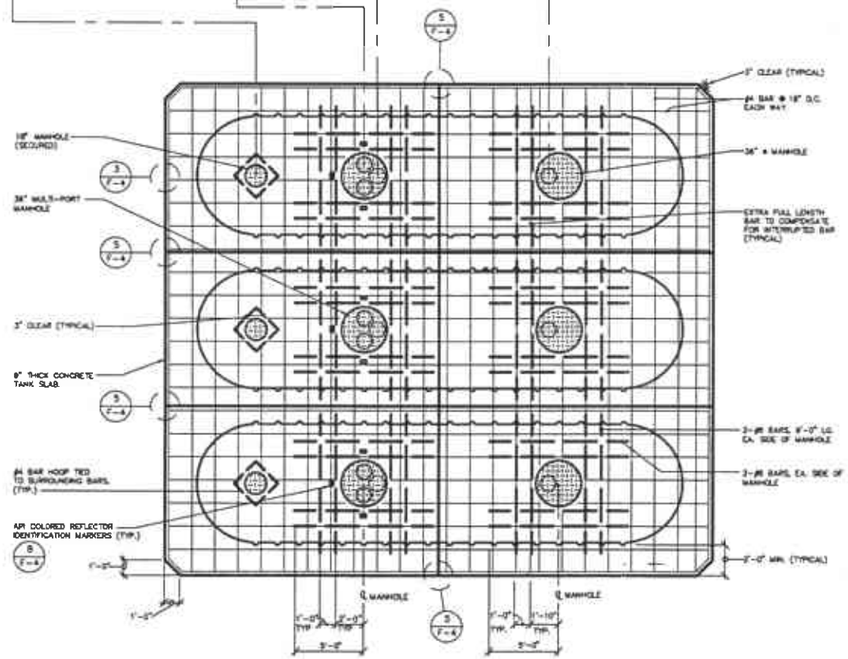
3 SLAB EDGE DETAIL
ALL CONCRETE YARD
SCALE: 1"=1'-0"



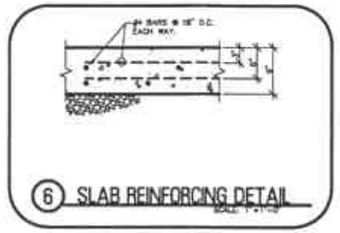
4 SLAB EDGE DETAIL
ALL CONCRETE YARD
SCALE: 1"=1'-0"



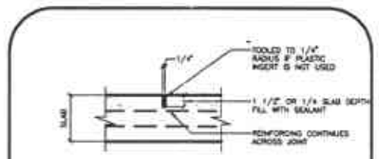
5 KEYED KOLD JOINT
SCALE: NONE



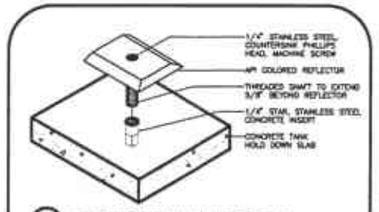
1 CONCRETE SLAB & REINFORCING PLAN
SCALE: 1/4"=1'-0"



6 SLAB REINFORCING DETAIL
SCALE: 1"=1'-0"



7 TOOLED CONTROL JOINT
SCALE: 1"=1'-0"



8 REFLECTOR MOUNT DETAIL
SCALE: NONE

GENERAL NOTES:

1. ALL COVERS, GASKETS, AND SEALS TO BE IN PLACE AND WATER TIGHT.
2. CONCRETE SLAB SHALL HAVE A HEAVY BROOM FINISH.
3. CONCRETE SLAB TO BE SEALED.
4. UPPER STEEL REBAR SHALL BE SUPPORTED BY 6" CHAIRS (DOBIE).
5. API COLORED REFLECTORS SHALL BE INSTALLED AT THE FILL END MANHOLE PERIMETER.

SLAB PLAN, SECTION, + DETAILS 10k GAL. 8'ϕ TANKS

9-0121
3026 LAKESHORE AVENUE
OAKLAND, CALIFORNIA

Chevron

ROBERT H. LEE & ASSOCIATES, INC.
ARCHITECTS/PLANNERS ENGINEERS/SCIENTISTS ENVIRONMENTAL SERVICES
(707) 765-1852

REVIEW	INITIAL	DATE
PRELIMINARY		
PLANNING		
STEEL REV		
BLDG PERMIT		
REMOVAL REV		
PERMIT REVS		
CONSTRUCTION		

DATE: 22JUL98
APPR:
SHEET F-4

FOR REFERENCE ONLY

ALAMEDA COUNTY TYPICALS
DRAWING No: F:\CAD\8841\TANKS\8841F4
AREA 1
JUL 22, 1998 13:38 Scale:1 Username:RR

BILL OF MATERIALS – UNDERGROUND STORAGE TANK INSTALLATION

FURNISHED BY	INSTALLED BY	PART DESCRIPTION	DETAIL	MANUFACTURER AND PART NUMBER – PREFERRED	MANUFACTURER AND PART NUMBER – ALTERNATE	QUANTITY REQUIRED	NOTES
CHEVRON (SUPPLIED IN "PACKAGE" SEE GENERAL NOTE 1)	GC	TOP SEAL CAP		OPW: 634TT-7085	UNIVERSAL: 731-40		
		TOP SEAL ADAPTOR		OPW: 633T-8076	UNIVERSAL: 724-4040		
		VAPOR RECOVERY CAP		OPW: 1711T-7085	UNIVERSAL: 0613VC		
		VAPOR RECOVERY ADAPTOR		OPW: 1611AV-1620	UNIVERSAL: 0611V-3040		
		VENT VALVE ASSEMBLY W/3" FLOAT VALVE		OPW: 53VML- FLOAT VENT VALVE	UNIVERSAL: 38-01118 FLOAT VENT VALVE		85% RESTRICTION BARREL LENGTH WILL VARY DEPENDING ON TANK DIAMETER 8'-0" DIA. TANK = 14" BARREL LENGTH, 10'-0" DIA. TANK = 18" BARREL LENGTH
		PRESSURE/VACUUM VALVE		OPW: 523 LPS-2250			
		4"ø ALUMINUM FILL TUBE		OPW: 61T-7368	UNIVERSAL: 7234015		CONTRACTOR TO CUT TO REQUIRED LENGTH FOR INSTALLATION TO MEET REQUIRED OFFSET DISTANCE FROM TANK BOTTOM – SEE DETAIL 1 OF SHEET F-3.
		18" DIAMETER MANHOLE W/SECURED LID		OPW: 104MH-0018	UNIVERSAL: 98-1810		
		FLEXIBLE CONNECTOR 24" LENGTH 2"FM X 1 1/2"M SWIVEL		TELEFLEX: 60-10476-240	TITEFLEX: 111430-32-0240		
		FLEXIBLE CONNECTOR 18" LENGTH 2"FxM SWIVEL		TELEFLEX: 60-10478-180	TITEFLEX: 111351-32-0180		
		FLEXIBLE CONNECTOR 18" LENGTH 2"FxM		TELEFLEX: 60-10480-180	TITEFLEX:		
		FLEXIBLE CONNECTOR 2" MxM		TELEFLEX: 60-10602-120	TITEFLEX:		
		CONTAINMENT BOOT		TELEFLEX:	TITEFLEX:		
		FIBERGLASS DISPENSER CONTAINMENT BOX		PHIL-TITE: FG-4212-3PD-WE	WESTERN FIBERGLASS: FXP5520W + ACCESSORIES		
		FIBERGLASS CONTAINMENT SUMP		TANK MANUFACTURER	PHIL-TITE: FG-4251-S		
		FIBERGLASS CONTAINMENT SUMP REDUCER		TANK MANUFACTURER	PHIL-TITE: FG-4333 SRC		
		36" MULTI-PORT MANHOLE		PHIL-TITE: SC-3600-TSC-2-1 W/15 GALLON PHIL-TITE: SPILL BUCKET			USE SC-3600-SCA-2 FOR USED OIL TANK INSTALLATION USE SC-3600-TSC-1 FOR DIESEL TANK INSTALLATION
		SECONDARY SUMP SHIELD		PHIL-TITE: SC-3601-SS			USE WITH MULTI-PORT MANHOLE
		SPILL CONTAINMENT BUCKET		PHIL-TITE: 15 GALLON CAPACITY			
		36" DIAMETER MANHOLE		PHIL-TITE: SC-3600-OAO			
		SECONDARY SUMP SHIELD		PHIL-TITE: SC-3600-L			USE WITH 36" DIAMETER MANHOLE
		PRODUCT TAG HOLDER		PHIL-TITE: ID TAG BRACKET	OPW: 107-0300		
		PENETRATION BOOT FOR F.R.P. PIPE		ENVIRON: FEB 6200 (FOR 2" F.R.P. PIPE) FEB 6300 (FOR 3" F.R.P. PIPE)			
		PENETRATION BOOT FOR CONDUIT		ENVIRON: FEB 3075 (FOR 3/4" CONDUIT) FEB 3100 (FOR 1" CONDUIT)			
		3"x2" BOOT WITH TEST PORT		FERNCO: 1056-32	WEAVER: C3x2		TEST PORT TO BE UNPLUGGED AFTER PRESSURE TESTS ARE COMPLETED
		2" FULL PORT BALL VALVE		JO MAR: T-100 100-945 TCS-2000	NELES JAMESBURY: 22-2236MT-1		
		MONITOR TAG		CHEVRON: TAG-82			
		COLORED REFLECTOR I.D. MARKERS					REGULAR UNLEADED = WHITE, PLUS UNLEADED = BLUE SUPREME UNLEADED = RED, #2 DIESEL = YELLOW
		WRAP AROUND MARKERS					CUT MARKERS TO FIT
		COLORED PRODUCT COLLAR					
		ANNULAR SPACE RISER CAP		VEEDEROOT 312020-952			
		DISPENSER SHEAR VALVE		OPW: 10RP			
		VAPOR SHEAR VALVE		OPW-60V-SPC			
		VAPOR IMPACT VALVE SUPPORT KIT		PHIL-TITE:			
		EXTRACTOR FITTING		OPW: 233VM-4422			
		EXTRACTOR FITTING		OPW: 233VM-8045			
CHEVRON		DOUBLE WALL FIBERGLASS FUEL STORAGE TANKS		XERXES: 1_,000 GALLON __FT. DIA.	OWENS-CORNING: 1_,000 GALLON __FT. DIA.		
		TURBINE PUMP		F.E. PETRO: 1 1/2 H.P. STP-150-HP	RED JACKET: 1 1/2 H.P. P150 S1		
		MONITOR CONTROL BOX		VEEDER ROOT 3000			
		TANK LEVEL MONITOR PROBE MOUNTING KIT		VEEDER ROOT 3000			
		CONTAINMENT SUMP PROBE		API/RONAN: LS-3			
		ANNULAR SPACE PROBE		GEMS (FIBER OPTIC SWITCH)	API/RONAN: LS-7		
		FILTER TRIP KIT		DRESSER WAYNE			SHIPPED WITH FUEL DISPENSER
GC		FILL/VAPOR RISER SUPPORT BRACKET		PHIL-TITE: #1600			
		CONCRETE SLAB SEAL		FEDERAL CHEMICALS CONCRETE SEALER WB-20	AQUA-CRETE WB-20		USE 60 GRIT SILICA SAND
		FIBERGLASS PRIMARY PRODUCT PIPING		A-O-SMITH: PIPE-2" RED THREAD IIA GLUE- DS 8014	AMERON: PIPE- 3302047 GLUE- RP48A		CONTRACTOR MUST HEAT PACK THE GLUE
		FIBERGLASS SECONDARY CONTAINMENT PIPING		A-O-SMITH: PIPE-3" RED THREAD IIA GLUE- DS 7069, DS 8069	AMERON: PIPE- 3303078 GLUE- RP48A		CONTRACTOR MUST HEAT PACK THE GLUE PER MANUFACTURER INSTALLATION INSTRUCTIONS
		FIBERGLASS VENT PIPING		A-O-SMITH: PIPE-2" RED THREAD IIA GLUE- DS 7069, DS 8069	AMERON: PIPE- 3302047 GLUE- RP48A		
		FIBERGLASS VAPOR RECOVERY PIPING		A-O-SMITH: PIPE-3" RED THREAD IIA GLUE- DS 7069, DS 8069	AMERON: PIPE- 3303078 GLUE- RP48A		
		300# BLACK IRON UNION					
		REFLECTOR MOUNTING HARDWARE		1/2" STAR, STAINLESS STEEL, CONCRETE INSERT 1/4" STAINLESS STEEL, COUNTERSINK PHILLIPS HEAD, MACHINE SCREW			HARDWARE AVAILABLE AT ORCHARD SUPPLY HARDWARE, ETC.
		CHECK VALVE		MORRISON #530-2ST			CHECK VALVE IS ONLY REQUIRED FOR MANIFOLDED UNLEADED TANKS WHICH HAVE RED JACKET SUBMERSIBLE TURBINE PUMPS.

1. CONTRACTOR TO PICK UP THESE MATERIALS AT ____________
2. ALL OTHER EQUIPMENT AND MATERIALS SHOWN ON THE DRAWINGS BUT NOT DESIGNATED IN THIS SUMMARY SHALL BE FURNISHED & INSTALLED BY THE GENERAL CONTRACTOR.
3. VERIFY THE USE OF ALTERNATE MATERIAL MANUFACTURER WITH THE CHEVRON CONSTRUCTION REPRESENTATIVE PRIOR TO EQUIPMENT PROCUREMENT.

MARK	DATE	REVISIONS	INITIAL

ALAMEDA COUNTY TYPICALS

FOR REFERENCE ONLY

BILL OF MATERIAL FUEL TANK INSTALATIONS

9-0121
3026 LAKESHORE AVENUE
OAKLAND, CALIFORNIA

Chevron

ROBERT H. LEE & ASSOCIATES, INC.
ARCHITECTURE ENGINEERING ENVIRONMENTAL SERVICES
PETALUMA CA

PHL REVIEW	INITIAL	DATE
PRELIMINARY		
PLANNING		
STEEL BID		
BLDG PERMIT		
GENERAL BID		
PERMIT REV'S		
CONSTRUCTION		

SHEET F-5

Username: JRR Scale: 1 DRAWING No. F:\CAD\8841\TANKS\8841F5 JUL 22, 1998 13:39 AREA 4