# Cient Number: 02020002es Projoz 1D: Sowro 1523 <br> 0000 Nothase <br> $\operatorname{San}$ Pration, Ch <br> Wark Order Rumber: CA-11-0454 

## ANALYTICAL. RESULTS

## TPH as Diesel in Soll

Method: Modified EPA 8015a


a. OTerpheny urrogate recovery acceptabitity limis art 50.950x Test Mothocts fox Evaluating Sold Waste, SW-84E, Wryede. Gon, fev. O. U S. EPA Nowertbor, 1906.

GTEL Clitent IO:
020200025
ANALYTICAL RESUTS Login Mumber: Project id (number): 020200025 l1 san Rafoel

Yolatile Organics Hethod: EPA 8015 Matrix: Solids Project iD (name): Sears/\$1528/9000 Northgate Mall. Sin Rafael



## hotes:

## Dituction Factor:

Dilution fuctor in. icates int adjustinents made for samble dilution.

## ©PA 8015:






020200025
ANALYTICAL RESUHTS
C4110454
Project ID (name): Sears/(\#1528/9000 Morthgate Mall. San Rafael
Volatile Orpanics
Method: EPA 8015
Matrix: Saltos



## notes:

## Dilution Factor:

Difution fuctor indicates the adjustinents made for sample oilution.

## 51 5025:

 gesoltre as per Gallfornia State Water Resources gard LUFT Manual protocols. May 1988 revision. Acieptasility inmits for reaovery in the eronofluoroenzere (8F5) surropote is 60-119x.

# GTE 

ENVIRONMENTAL LABORATORIES, INC.

Northwest Region
4080-C Pike Lane
Concord, CA पc520
(510) 685.7852
( 800 ) 544 -3422 from inside California (800) 423.7123 from outside California

Client Number: 020000025
Project ID: Semis $=1520$ Northgeto Mad Sen Passel

## Eileen Brennan

Groundwater Technology, Inc.
275 South Temple, Suite 321
Salt Lake City, UT 84111

Enclosed please find the analytical results for samples received by GTEL Environmental Laboratories, Inc. on 12/01/94, under chain of custody record 33111 and 33113.
A formal Quality Assurance/Quality Control (QA/QC) program is maintained by GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/ QC criteria, unless otherwise stated in the footnotes. This report is to be reproduce only in full.
GTEL is certified by the California State Department of Health Services, Laboratory certification number E1075, to perform analyses for drinking water, wastewater, and hazardous waste materials according to EPA protocols.
If you have any questions concerning this analysis or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,
GTEL Environmental Laboratories, Inc.
$\sum_{=0}$


Rashimi Shah
Laboratory Director

## ANALYTICAL RESULTS

Volatile Organics in Soil
EPA Method 8240A日

2. Test Merthods tor Evaluathng Solid Waste, SW-846, Third Edition, including Update 1. US EPA ,hty 7892 (mannat modifiod for sacitionel cornpounda). Fesults reponed on a wet weight basis

Client Nurnber: 020000025<br>Project ID.<br>Sam $=1520$<br>Northglto Mall San Patant<br>Work Order Nurmber: C4-12-0011

ANALYTICAL RESULTS
Volatile Organics in Soil
EPA inlethod 8240A ${ }^{a}$

| GTEL Sample Number |  | 08 | 09 | 10 | 11 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Cliemt Idemtification |  | WO.1/2 | WO-C | WO-2/4 | NO-1/2 |
| Date Sampled |  | 11/30/94 | 11/30/94 | 11/30/94 | 11/30/94 |
| Date Analyzed |  | 12/05/94 | 12/05/94 | 12/05/94 | 12/06/94 |
| Analyte | Detection Limit. ug/kg | Concentration, wg/Kg |  |  |  |
| trans-1,3-Dichioropropene | 5 | $<5$ | $<5$ | $<5$ | $<5$ |
| 2-Chlorosthylvimy ether | 10 | $<10$ | $<10$ | $<10$ | $<10$ |
| Brombotorm | 5 | $<5$ | $<5$ | $<5$ | $<5$ |
| 4-Methyi-2-pentanone | 20 | $<20$ | $<20$ | $<20$ | $<20$ |
| 2-Hexanone | 20 | $<20$ | $<20$. | $<20$ | $<20$ |
| Tetrachoroethene | 5 | $<5$ | $<5$ | $<5$ | $<5$ |
| 1,1,2,2-Tetrachioroethane | 5 | $<5$ | $<5$ | $<5$ | $<5$ |
| Toluene | 5 | $<5$ | $<5$ | $<5$ | $<5$ |
| Cliorobenzene | 5 | $<5$ | $<5$ | $<5$ | <5 |
| Ethyibenzene | 5 | $<5$ | $<5$ | $<5$ | $<5$ |
| Styrene | 5 | $<5$ | $<5$ | $<5$ | $<5$ |
| 1,2-Dichiorobenzene | 10 | $<10$ | $<10$ | $<10$ | $<10$ |
| 1,3-Dichlorobenzene | 10 | $<10$ | $<10$ | $<10$ | $<10$ |
| 1.4-Dichlorobenzene | 10 | $<10$ | $<10$ | $<10$ | <10 |
| Xylene, total | 10 | $<10$ | $<10$ | $<10$ | $<10$ |
| Tikhiorofluoromethane | 5 | <5 | $<5$ | $<5$ | $<5$ |
| Detectlon Linit Muttiplier |  | 1 | 1 | 1 | 1 |
| DCE surrogate. \% recovery |  | 925 | 95.8 | 98.1 | 95.9 |
| TOL surrogate, \% recovery |  | 101 | 110 | 107 | 110 |
| BFB surrogate. \% recovery |  | 106 | 98.9 | 101 | 92.4 |

a. Tess Methods for Evaluzting Solid Waste, SW-s46, Third Edition, Including Update 1, US EPA July 1892 (methxd modified for edditional compounds). Rosults reported on a wot weight basis.

## ANALYTICAL RESULTS

Volatile Organics in Soil
EPA Method 8240Aa

| GTEL Sample Number |  | 12 | 13 | 14 | $\begin{gathered} 120594 \\ \text { MSC } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Client Identification |  | NO-2/4 | NO/C | NO3/5 | METHOD BLANK |
| Date Sampled |  | 11/30/94 | 11/30/94 | 11/30/94 | - |
| Date Analyzed |  | 12/06/94 | 12/06/94 | 12/05/94 | 12/05/94 |
| Analyte | Detection Limit, ug/Kg | Concentration, $\mathrm{ug} / \mathrm{Kg}$ |  |  |  |
| Chioromethane | 10 | $<10$ | $<10$ | $<10$ | $<10$ |
| Bromomethane | 10 | $<10$ | $<10$ | $<10$ | $<10$ |
| Vinyl chtoride | 10 | $<10$ | $<10$ | $<10$ | $<10$ |
| Chioroethane | 10 | $<10$ | $<10$ | $<10$ | $<10$ |
| Methylene chloride | 5 | $<5$ | $<5$ | $<5$ | $<5$ |
| Acetone | 50 | $<50$ | $<50$ | $<50$ | $<50$ |
| Carbon disulfido | 5 | $<5$ | $<5$ | $<5$ | $<5$ |
| 1.1-Dichtoroethene | 5 | $<5$ | <5 | $<5$ | $<5$ |
| 1,1-Dichoroethane | 5 | $<5$ | $<5$ | $<5$ | $<5$ |
| 1,2-Dichloroetheme, total | 5 | $<5$ | $<5$ | $<5$ | $<5$ |
| Chloroform | 5 | $<5$ | $<5$ | $<5$ | $<5$ |
| 1,2-Dichoroethane | 5 | $<5$ | $<5$ | $<5$ | $<5$ |
| 2-Butanone | 20 | $<20$ | $<20$ | $<20$ | $<20$ |
| 1,1,1-Trichloroethane | 5 | $<5$ | $<5$ | <5 | $<5$ |
| Carbon tetrachioride | 5 | $<5$ | $<5$ | $<5$ | $<5$ |
| Vinyl acetate | 50 | $<50$ | $<50$ | $<50$ | $<50$ |
| Bromodichloromethane | 5 | $<5$ | $<5$ | $<5$ | < 5 |
| 1,2-Dichloropropane | 5 | $<5$ | $<5$ | $<5$ | $<5$ |
| cis-1.3-Dichloropropene | 5 | $<5$ | $<5$ | $<5$ | $<5$ |
| Trichloroethene | 5 | $<5$ | $<5$ | $<5$ | $<5$ |
| Dibromochlorcmethane | 5 | $<5$ | $<5$ | $<5$ | $<5$ |
| 1,1,2-Trichtoroethane | 5 | $<5$ | $<5$ | $<5$ | $<5$ |
| Benzene | 5 | $<5$ | $<5$ | $<5$ | $<5$ |

2. Test Methods tor Eraduating Solid Waste, SW-846. Thiro Edition, inciuding Uprata 1, US EPA kily 9992 (method modified for additiona compounds). Persutts reporter on a wet wei, hit bi sis.

ANALYTICAL RESULTS
Volatile Organics in Soil
EPA Method 8240A ${ }^{a}$

| GTEL Sample Number |  | 12 | 13 | 14 | $\begin{aligned} & 120594 \\ & \text { MSC } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Oient Identification |  | NO-2/4 | NO/C | NO-3/5 | METHOD BLANK |
| Date Sampled |  | 11/30/94 | 11/30/94 | 11/30/94 | - |
| Date Analyzed |  | 12/06/94 | 12/06/94 | 12/05/94 | 12/05/94 |
| Analyte | Detection Limit, ug/Kg | Concentration, $4 \mathrm{~g} / \mathrm{Kg}$ |  |  |  |
| trans-1.3-Dichloropropene | 5 | $<5$ | $<5$ | $<5$ | $<5$ |
| 2-Chloroethyivinyl ether | 10 | $<10$ | $<10$ | $<10$ | $<10$ |
| Bromoform | 5 | $<5$ | $<5$ | $<5$ | $<5$ |
| 4-Methyi-2-pentanone | 20 | $<20$ | $<20$ | $<20$ | $<20$ |
| 2Hexanone | 20 | $<20$ | $\times 20$ | $<20$ | $<20$ |
| Tetrachoroethene | 5 | $<5$ | $<5$ | $<5$ | $<5$ |
| 1.1.2.2-Tetrachloroethane | 5 | $<5$ | $<5$ | < 5 | $<5$ |
| Toluene | 5 | $<5$ | $<5$ | $<5$ | 45 |
| Chlorobenzene | 5 | $<5$ | $<5$ | $<5$ | $<5$ |
| Etryibenzene | 5 | $<5$ | $<5$ | $<5$ | $<5$ |
| Styrene | 5 | $<5$ | $<5$ | $<5$ | $<5$ |
| 1,2-Dichiorobenzene | 10 | $<10$ | $<10$ | $<10$ | $<10$ |
| 1,3-Dichlorobenzene | 10 | $<10$ | $<10$ | $<10$ | $<10$ |
| 1,4-Dichdorovenzens | 10 | $<10$ | $<10$ | $<10$ | $<10$ |
| Xylene, total | 10 | $<10$ | $<10$ | $<10$ | $<10$ |
| Tricthorofiuoromethane | 5 | $<5$ | $<5$ | $<5$ | $<5$ |
| Detection Limit Muttplier |  | 1 | 1 | 1 | 1 |
| DCE surrogate, \% recovery |  | 101 | 103 | 94.7 | 94.6 |
| TOL surrogate, \% recovery |  | 115 | 92.1 | 112 | 101 |
| BFB surropate, \% recovery |  | 96.9 | 95.6 | 102 | 102 |

a. Test Methods for Evaluating Solld Waste, SW-848. Thind Edition, incturding Update 1, US EPA July 1892 (mothod modifed for additionty compounds). Fosults reponted on a wet weight basis.

## ANALYTICAL RESULTS

Volatile Organics in Soil
EPA Method 8240Aa

2. Tos: Methods for Evalunting Scitd Waste, SW-846. Third Edition, inoluding Upotate 1, US EPA kuly 1982 (metnod modifiad for adcfional compounds). Aosults reportord on tw wet wight basis.

## ANALYTICAL RESULTS

Volatile Organics in Soil
EPA Method 8240Aa

| GTEL Sample Number |  | $\begin{aligned} & 120094 \\ & \text { MSC } \end{aligned}$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Client Identification |  | METHOD BLANK |  |  |  |
| Date Sampled |  | - |  |  |  |
| Date Analyzed |  | 12/06/94 |  |  |  |
| Analyte | Defection Umit, ug/Kg | Concentration, ug/ Kg |  |  |  |
| trans-1,3-Dichloropropene | 5 | < 5 |  |  |  |
| 2-Chloroethytuinyt ether | 10 | $<10$ |  |  |  |
| Bromotorm | 5 | $<5$ |  |  |  |
| 4-Methyl-z-pentanone | 20 | $<20$ |  |  |  |
| 2-Hexanone | 20 | $<20$ |  |  |  |
| Terrachoroethene | 5 | $<5$ |  |  |  |
| 1,1,2,2-Tetrachloroethane | 5 | $<5$ |  |  |  |
| Toluene | 5 | $<5$ |  |  |  |
| Ctiorobenzene | 5 | < 5 |  |  |  |
| Ethyibenzene | 5 | $<5$ |  |  |  |
| Styrerse | 5 | $<5$ |  |  |  |
| 1,2-D:chlorobenzene | 10 | $<10$ |  |  |  |
| 1,3-Dichicroberzene | 10 | $<10$ |  |  |  |
| 1,4-Dichlorobenzens | 10 | $<10$ |  |  |  |
| Xyiene, total | 10 | $<10$ |  |  |  |
| Trichiorofivoromethane | 5 | $<5$ |  |  |  |
| Detection Umit Mutiplier |  | 1 |  |  |  |
| DCE surrogate, \% recovery |  | 105 |  |  |  |
| TOL surrogate. \% recovery |  | 113 |  |  |  |
| BFB surrogate. \% recovery |  | 96.2 |  |  |  |

e. Test Methods for Evaluating Sotid Waste, SW-846, Third Ed:tion, induding Update 1. US EPA July 1592 (mmethod modifiod for additional compounds). Rosults reporter on a wot weight basis

Chient Number: 020200025<br>Froject ID: Sears ${ }^{(1520}$<br>Northcate Mall San Fuafal<br>Work Order Mumber: CA 12-001

## ANALYTICAL RESULTS

CAM List of Metals in Soil (TLLC) ${ }_{2}$

2. Test Metroxs for Evaluating Solld Wastr, SW-846. Third Edition. Rervision O, US EPA November 1906. Fissults roportad on a whe woigm Dasis.
B. Draft EPA method 3005 5W-846 Thito Addition Pavision 1 Sopt. 1981.
c. Induetively Coupled Argon Plessine (ICP).
d. Graphtite F.rmate Attrinc Absorption (GFAA).
e. Cold Vapor Aismle Absorption (CVAA).


## ANALYTICAL RESULTS

CAM List ot Metals in Soil (TTLC) ${ }_{\mathbf{a}}$

6. Tesf Mathods for Evaluating Solid Waste, SW-84E. Third Edifion. Pevision O, US EPA November 1986. Rusults reported on a wet weight basis.
b. Draft EPR metrod 3055 SW-846 Third Addtion Rovisiun 1 Sept. 1991.
c. hnctuctively Coupied Arpon Prasms (ICP).
d. Graphits Furnace Asomic Absorption (GFAA).
\%. Coid Vapor Atomic Absorption (CVAA,


## APPENDIX B

## SOIL SAMPLING TECHNIQUES - QUALITY ASSURANCE/QUALITY CONTROL, TPH-G AND BTEX, EPA METHOD 8020, LABORATORY REPORTS

## SOIL SAMPLING TECHNIQUES QUALITY ASSURANCE AND QUALITY CONTROL

To prevent cross contamination between samples, the sampler was washed prior to each sampling using the "three bucket" wash system. This system involves the following steps:

1. washing the split-spoon sampler in a detergent and water solution
2. rinsing the sampler in tap water
3. rinsing the sampler in distilled water

To maintain the integrity of the samples, all samples were collected using the following methods:

1. collected in 6-inch brass sample tubes
2. sealed with foil or Teflon caps
3. wrapped with duct tape
4. properly labeled and listed on completed custody forms
5. placed in plastic bags
6. placed in a cooler and chilled on ice
7. delivered to a State-certified laboratory

All soil samples were refrigerated and stored at the laboratory for 30 days in case subsequent analyses were required.


| Analyte Reporting Units $\quad$ Limit |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Bendedx |  |  |  |  |  |
| Toluene 0.005 | $\mathrm{mg} / \mathrm{kg}$ | $<0.005$ | $<0.005$ | $<0.005$ | $<0.005$ |
|  |  |  |  |  |  |
| Xylenes (total) 0.015 | 1.0. $0^{2}$ |  |  | $<0.015$ | $<0.015$ |
| PT ${ }^{\text {M }}$ S GSS |  |  |  |  |  |
| BFB (Surrogate) -- | 2 | 96.9 | 86.5 | 66.2 | 85.2 |

## Mates:

## 17ction Factor:

Oifution moctor indicates the adjustments abe for sarple dilution.

## EPA 8ROQ:

 gasoline as per Californta State Nater Respurces Board UUFT Manal protocols. May 1988 revision. Acceptability limits for recorgry in the Browflucrobenzene (BFB) surrogate is 60-119\%.


## Reporting

Analyte Limit Units Concentration:Wet Weight


## Notes:

## Dilusiza factor:

Ollution ractor indicates the adjustrants made for sample dilution.

## EPA 8020:

"Test hethods for Evaluating Solid keste. Phystcal/chemical Methods". SN-846. Thrd Edition including promigated updrte 1. Modificetion for TAi as gisoline as per Calitomia State hater Rescurces board Luft Manul protecols. May 1988 revision. Aceptability limits for recovery in the Browiflurdsensene (BFB) surrogate is $60-119 x$.

Volatile Organics
Method: EPA 8020
Matrix: Solids


Reporting

| Analyte | Limit | Units | Concentration:Wet Weight |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Benzene | 0.005 | ng/k9 | \% 0005 | \% O.005: | a 0.005 | \% 0.005 |
| Toluene | 0.005 | $\mathrm{mg} / \mathrm{kg}$ | $<0.005$ | $<0.005$ | $<0.005$ | $<0.005$ |
| Etbulbenzene: | 0.005 | mol 19 | \% 0.005 | 40.005\% | ¢ 0.005 | \$0,005 |
| Xylenes (total) | 0.015 | $\mathrm{mg} / \mathrm{kg}$ | $<0.015$ | $\leqslant 0.015$ | $<0.015$ | $<0.015$ |
|  | 1.0 | motkg | \%1.0 | \% 1.0 | \& 1.0 | 2.1.0 |
| BFB (Surrogate) | --- | \% | 89.3 | 89.0 | 84.9 | 91.0 |

## Notes:

## Drlution Factor:

Dilution factor indicates the adjustments made for sample dilution.

## EPA BURO:

-Test Hethods for Evaluating Solid Waste. Piysical/Chenical Methods", SW-846. Third Edition inciuding promulgated Update 1 . Modification for TPH as gasoline as per California State Water Resources Board LUFT Manual protocols. May 1988 revision. Acceptability limits for recovery in the Bromofluordenzene (BFB) surrogate is 60-119:.

GTEL Concord. CA
C4120017:1


|  | Reporting |
| :--- | :--- |
| Limit | Units |

## Notes:

## Dilution Factor:

Dilution factor indicates the adjustments made for sample dllution.

## EPA 8020:

"Test Methods for Evaluating Solid Haste. Physical/Chemical Methods". SW-846, Third Edition Including promulgated Update 1. Modification for TPH as gasoline as per California State Hater Resources Board LUFT Manual protocols. May 1988 revision. Acceptability limits for recovery in the Bromofluorobenzene (BFB) surrogate is $60-119 x$.

| GTEL Client ID: | 020200025 |
| :--- | :--- |
| Login Number: | C4120017 |
| Project ID (number): | 020200025 |
| Project ID (name): | Sears $/ 1528 / 9000$ Northgate Mall. San Rafael |

Volatile Organics Method: EPA 8020 Matrix: Solids


| Analyte | Reporting Limit | Units | Concentration:Wet Weight |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Benzenera | \%.0.005 | mg/kg | 0005 | / 0.0005 | . | . |  |
| Toluene | 0.005 | $\mathrm{mg} / \mathrm{kg}$ | $<0.005$ | $<0.005$ | -- | -- |  |
| Ethy Benzene | 0.005 | mp/kg | *0,005 | < 0.0055 | \% | \% |  |
| Xylenes (total) | 0.015 | $\mathrm{mg} / \mathrm{kg}$ | $<0.015$ | $<0.015$ | -- | -- |  |
|  | 1.0 | mgh kg | \% 10 | \&1.0 | . | 4. |  |
| BFB (Surrogate) | -- | , | 90.5 | 84.1 | -- | -- |  |

## Notes:

## Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

## EPA 8020:

"Test. Methods for Evaluating Solid Haste. Physical/Chemical Methods". SH-846. Third Edition including pronulgated Update 1. Modification for TPH as gasoline as per California State Hater Resources Board LUFT Manual protocols. May 1988 revision. Acceptability limits for recovery in the Bronofluordenzene ( BFB ) surrogate is 60-119\%.

GTEL Concord. CA
C4120017:3



## [5A $8015:$

 gasoline as per California State woter Resourtes board LUTT Manual protocols. May 1988 revision. Acceptability limits for recovery in the Bromofluorcoenzene ( $8 F B$ ) surrogate is $60-1197$.

GTEL COncord. CA C4110454:1


|  | Reporting |
| ---: | ---: | ---: | ---: |
| Analyte Units Units Concentration:Het Weight |  |


|  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| BFB (Surrogate) | --- | $\underline{2}$ | 85.0 | 90.6 | 87.9 | -- |

## Hotes:

## 01fation Factor:

0ifution factor indicates the adjusthents made for sample dilution.

## EPA 8015:

 gasoline as per California State Water Resources Board LUFI Nonull protocols. May 1988 rewision. Aceeotability ilmits for recovery in the Bramofluorodenzene (BFB) surrogate is 60-119\%.


## Hotes:

## APPENDIX C

TOTAL LEAD, EPA METHOD 6010, LABORATORY REPORTS

## ANALYTICAL RESULTS

## Lead in Soil

## EPA Method 6010a

a. Test Mathods for Evaluating Solid Waste, SW-846. Third Edition, Revision O, US EPA November 1988 . Sample preparation by Mothod 3050. Resutus reported on a wot welght basis.

| GTEL Sample Number |  | 01 | 2 | BTW 03 | Bin 04 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Client Identification |  | ATW-1/3 | ATW-2/3 | P AE- $1 / 3$ | ETE-2/3 |
| Date Sampled |  | 11/30/94 | 11/30/94 | 11/30/94 | 11/30/94 |
| Date Prepared |  | 12/02/94 | 12/02/94 | 12/02/94 | 12/02/94 |
| Date Analyzed |  | 12/06/94 | 12/06/94 | 12/06/94 | 12/06/84 |
| Analyte | Detection Umit, $\mathrm{mg} / \mathrm{Kg}$ | Concentration, $\mathrm{mg} / \mathrm{Kg}$ |  |  |  |
| Lead, total | 5 | 10 | 6 | 7 | 9 |
| Detection Limit Mutipller |  | 1 | 1 | 1 | 1 |


| GTEL Sample Number |  | 05 | 06 | 07 | $\begin{gathered} 120294 \\ \text { MET } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Client Identification |  | MT3/3 | MT-4/4 | MT5/4 | $\begin{gathered} \text { METHOD } \\ \text { BLANK } \end{gathered}$ |
| Date Sampled |  | 11/30/94 | 11/30/94 | 11/30/94 | - |
| Date Prepared |  | 12/02/94 | 12/02/94 | 12/02/94 | 12/02/94 |
| Date Analyzed |  | 12/06/94 | 12/06/94 | 12/06/94 | 12/06/94 |
| Analyte | Detection Limit, mg/Kg | Concentration, $\mathrm{mg} / \mathrm{Kg}$ |  |  |  |
| Lead, total | 5 | 9 | 8 | $<5$ | $<5$ |
| Detection Limit Muthiplier |  | 1 | 1 | 1 | 1 |

#  Proutig. <br> 800 <br> 9aphortrom <br> wot Oriwr Amentur:  

## ANALYTICAL RESURTS

## Lead in Som

EPA Motiod 8010



| GTEL Sampas Nurtor |  | 01 | Co | 93 | 04 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Crextidentioation |  | MT183 | ITI $6 / 3$ | 111/2 | $142 / 2$ |
| Dena Sampled |  | 12/01/04 | 12/01/94 | 1291/83 | 12/01/84 |
| Detor Prepered |  | 12/02/94 | 12/0g/94 | 12/92/94 | 12/08/94 |
| Data Arayrad |  | 12/03/84 | 12/03/94 | 12/06f4 | 12/08/94 |
| Mrahta | $\begin{aligned} & \text { Detertion } \\ & \text { Lnt mg/Kg } \end{aligned}$ | Concentration ma/k? |  |  |  |
| Lead totad | 3 | 9 | 9 | 9 | 8 |
| Detection Lnit Hetaler |  | 1 | 1 | 1 | 1 |


| CTEL Somplo Rurntor |  | 05 | 06 | 07 | 93 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Ciunt kdentificution |  | 181/2 | $182 / 2$ | ETE1/3 | BTE2/3 |
| Deta Exnpled |  | 12/01/84 | 12/01/94 | 12/01/94 | 12/01/84 |
| Dote Prapern' |  | 12/02/84 | 12/02/94 | 12/02/94 | 12/uefa |
| Dakn Aradyzod |  | 12/08/94 | 12/06/24 | 12/00/99 | 12/06/94 |
| Anaiyo | Detection Untia mo/kg | Concertadien m9/K\% |  |  |  |
|  | 5 | 9 | 10 | 11 | 10 |
|  |  | 1 | 1 | 1 | 1 |

## ANALYIICAL RESURTS

Lead in 8cal
EPA Motiod E010



| GTEL Sarmia Munber |  | $\cdots$ | 10 | 120294 |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Cimitidentivation |  | ATE1/3 | ATE2/4 | METHOO $8 \mathrm{BL} \times \mathrm{x}$ |  |
| Data Sampiod |  | 12/01/54 | 12/01/84 | - |  |
| Date Praprared |  | 12/0254 | 12/02/94 | 12/19/94 |  |
| Defo Anrelyzed |  | 12/08/94 | 72/03/94 | 12/08/94 |  |
| Anatio | $\begin{aligned} & \text { Detection } \\ & L_{n i n}, \text { mg/ } \\ & \hline \end{aligned}$ | Concentrifion mafing |  |  |  |
|  | 5 | 7 | 8 | $<5$ |  |
| Drtection Untix Mry |  | 1 | 1 | 1 |  |

## APPENDIX D

TPH-D, EPA METHOD MODIFIED 8015, LABORATORY REPORTS

## ANALYTICAL RESULTS

TPH as Diesel in Soil
Method: Modified EPA 8015a

| GTEL Sample Number |  | 08 | 09 | 10 | 11 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Client Identification |  | W0.1/2 | WO-C | W0.2/4 | NO-1/2 |
| Date Sampled |  | 11/30/94 | 11/30/94 | 11/30/94 | 11/30/94 |
| Date Extracted |  | 12/02/94 | 12/02/94 | 12/02/94 | 12/02/94 |
| Date Analyzed |  | 12/02/94 | 12/02/94 | 12/03/94 | 12/03/94 |
| Analyte | $\begin{array}{\|c\|} \hline \text { Detection } \\ \text { Limit, } \mathrm{mg} / \mathrm{Kg} \\ \hline \end{array}$ | Concentration, mg/ Kg |  |  |  |
| TPH as diesel | 10 | <10 | $<10$ | $<10$ | $<10$ |
| Defection Limit Mutipller |  | 1 | 1 | 1 | 1 |
| OTP surrogate, \% recovery |  | 74.5 | 91.5 | 76.4 | 92.4 |


| GTEL Sample Number |  | 12 | 13 | 14 | $\begin{aligned} & \mathrm{GCl} \\ & 120294 \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Ciemt Identification |  | NO-2/4 | NO/C | NO-3/5 | $\begin{aligned} & \text { METHOD } \\ & \text { BLANKK } \end{aligned}$ |
| Date Sampled |  | 11/30/94 | 11/30/94 | 11/30/94 | - |
| Date Extracted |  | 12/02/94 | 12/02/94 | 12/02/94 | 12/02/94 |
| Date Analyzed |  | 12/02/94 | 12/02/94 | 12/03/94 | 12/02/94 |
| Analyte | $\begin{array}{\|c\|} \hline \text { Detection } \\ \text { Limit, mg } / \mathrm{Kg} \\ \hline \end{array}$ | Concentration, $\mathrm{mg} / \mathrm{Kg}$ |  |  |  |
| TPH as diesel | 10 | <10 | $<10$ | $<10$ | <10 |
| Derection Limir Mutiplier |  | 1 | 1 | 1 | 1 |
| OTP surrogate, \% recovery |  | 93.3 | 67.5 | 74.0 | 106 |

2. OTerphenyl surrogats recovery acceptability limits are 50.150\%. Test Nothods for Evaluating Soltd Westo, SW-gs8, 3rd ed. thom, Por. O. U.S. EPA, Novernber, 1996.

## APPENDIX E

## TRPH, EPA METHOD 418.1, LABORATORY REPORTS

# Cliant Number. 02020000s <br> Project 10. Sears 1528 9000 Northgato San Ratail. CA Work Order Number: C4.11.0454 

## ANALYTICAL RESULTS

Total Petroleum Hydrocarbons in Soil by Infrared Spectrometry ${ }^{1}$

EPA 3550 (Mod)/EPA 418.1 (SM 5520 FC) ${ }^{2}$

| GTEL Sample Number |  | 08 | 09 | 10 | 11 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Client Identification |  | WO-1/2 | WO-C | WO-2/4 | NO-1/2 |
| Date Sampled |  | 11/30/94 | 11/30/94 | 11/30/94 | 11/30/94 |
| Date Prepared |  | 12/01/94 | 12/01/94 | 12/01/94 | 12/01/94 |
| Date Analyzed |  | 12/01/94 | 12/01/94 | 12/01/94 | 12/01/94 |
| Analyte | Detection Limit, mg/Kg | Concentration, $\mathrm{mg} / \mathrm{Kg}$ |  |  |  |
| Total Petroleum Hydrocarbons | 5 | 7 | 110 | 19 | < 5 |
| Detection Limit Muttplier |  | 1 | 2.5 | 1 | 1 |

1. The sample is sonication extracted using a modification of EPA 3550. The axtract to analyzed, as in EPA 418.1 (SM S520 CF), to yield results roportod as Total Petroleum Hydrocarbons. Risults are reportod on a wet weight Desia
2 Stendard Methods for the Examination of Water and Wastewatar, 17 th \&., American Publie Heath Astociation. 1829.

## ANALYTICAL RESULTS

Total Petroleum Hydrocarbons in Soil by Infrared Spectrometry ${ }^{1}$

EPA 3550 (Mod.)/EPA 418.1 (SM 5520 FC) ${ }^{2}$

| GTEL Sample Number |  | 12 | 13 | 14 | $\begin{gathered} 120194 \\ \mathrm{TPH} \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Gient Identification |  | NO-2/4 | NO-C | NO.3/5 | METHOD BLANK |
| Date Sampled |  | 11/30/94 | 11/30/94 | 11/30/94 | - |
| Date Prepared |  | 12/01/94 | 12/01/94 | 12/01/94 | 12/01/94 |
| Date Analyzed |  | 12/01/94 | 12/01/94 | 12/01/94 | 12/01/94 |
| Analyte | Detection Limit, mg/Kg | Concentration, $\mathrm{mg} / \mathrm{Kg}$ |  |  |  |
| Total Petroleum Hydrocarbons | 5 | 11 | 26 | $<5$ | $<5$ |
| Detection Limit Muthtior |  | 1 | 1 | 1 | 1 |

1. The sample is sonication extracted using a modification of EPA 3550. The extratt is analyzed. as in EPA 418.1 (SM $5 \mathbf{5 0 0}$ CT), to yield results reported as Total Petroleum Hydrocarbons. Pesults are reported on a wot woight Dasis.
2 Smandard Methods for the Examination of Water and Wastewator, 17th ed.. American Pubile Heath Association, 1909.

## APPENDIX F

VOLATILE ORGANICS, EPA METHOD 8240, LABORATORY REPORTS

## ANALYTICAL RESULTS

Volatile Organics in Soil
EPA Method 8240Aa

| GTEL Sample Number |  | 08 | 09 | 10 | 11 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Cliem Identification |  | WO-1/2 | wo-c | WO-2/4 | N0-1/2 |
| Date Sampled |  | 11/30/94 | 11/30/94 | 11/30/94 | 11/30/94 |
| Date Analyzed |  | 12/05/94 | 12/05/94 | 12/05/94 | 12/06/94 |
| Analyte | Datection Limit, ug/Kg | Concentration, ug/ $/ \mathrm{Kg}$ |  |  |  |
| Cthoromethane | 10 | $<10$ | $<10$ | $<10$ | $<10$ |
| Bromomethane | 10 | <10 | <10 | $<10$ | $<10$ |
| Vinyl chiorkde | 10 | <10 | $<10$ | $<10$ | <10 |
| Ciloroethane | 10 | $<10$ | $<10$ | $<10$ | $<10$ |
| Methylene chioride | 5 | $<5$ | <5 | $<5$ | $<5$ |
| Acetone | 50 | <50 | $<50$ | <50 | $<50$ |
| Carbon disufide | 5 | <5 | $<5$ | <5 | <5 |
| 1,1-Dichloroethene | 5 | <5 | $<5$ | < 5 | <5 |
| 1,1-Dichloroethane | 5 | <5 | $<5$ | < | < |
| 1,2-Dichforosthene, tofal | 5 | $<5$ | $<5$ | $<5$ | $<5$ |
| Chloroform | 5 | $<5$ | < | <5 | <5 |
| 1,2-Dichloroethane | 5 | $<5$ | $<5$ | $<5$ | $<5$ |
| 2-Butanone | 20 | $<20$ | $<20$ | $<20$ | $<20$ |
| 1,1,1-Trichforoethane | 5 | $<5$ | <5 | <5 | $<5$ |
| Carbon tetrachloride | 5 | $<5$ | <5 | $<5$ | <5 |
| Vinyl acetate | 50 | $<50$ | $<50$ | $<50$ | $<50$ |
| Bromodichloromethane | 5 | $<5$ | <5 | $<5$ | $<5$ |
| 1,2-Dtehloropropane | 5 | <5 | $<5$ | $<5$ | $<5$ |
| cis-1,3-Dichloropropene | 5 | $<5$ | <5 | $<5$ | $<5$ |
| Trichioroethene | 5 | $<5$ | <5 | < 5 | $<5$ |
| Dibromochloromethane | 5 | <5 | <5 | <5 | < 5 |
| 1,1,2-Trichloroethane | 5 | $<5$ | $<5$ | $<5$ | $<5$ |
| Benzene | 5 | $<5$ | $<5$ | $<5$ | $<5$ |

2. Test Methods for Evaluabing Solid Waste. SW-848, Third Edition, including Update 1, US EPA July $1 g 92$ (rnethod moditied for adortional componrcis). Piesuhts reportad on a wet weight basis.

## ANAL.YTICAL RESULTS

Volatile Organics in Soil
EPA Method 8240Aa

| GTEL Sample Number |  | 08 | 09 | 10 | 11 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Cliont Identification |  | W0-1/2 | WO-C | WO-2/4 | NO-1/2 |
| Date Sampled |  | 11/30/94 | 11/30/94 | 11/30/94 | 11/30/94 |
| Date Analyzed |  | 12/05/94 | 12/05/94 | 12/05/94 | 12/06/94 |
| Analyte | Detection Limit, ug $/ \mathrm{Kg}$ | Concentration, ug/ Kg |  |  |  |
| trans-1,3-Dichloropropene | 5 | $<5$ | $<5$ | < 5 | < 5 |
| 2-Chloroethytviryl ether | 10 | $<10$ | $<10$ | $<10$ | $<10$ |
| Bromoform | 5 | <5 | <5 | <5 | <5 |
| 4-Methyl-2-pentanone | 20 | $<20$ | $<20$ | $<20$ | $<20$ |
| 2 -Hexanone | 20 | $<20$ | $<20$ | $<20$ | $<20$ |
| Tefrachloroethene | 5 | $<5$ | $<5$ | $<5$ | $<5$ |
| 1,1,2,2-Tetrachlorothane | 5 | < | $<5$ | <5 | <5 |
| Toluene | 5 | <5 | <5 | <5 | <5 |
| Criorobenzene | 5 | <5 | <5 | <5 | < |
| Ethyiberzene | 5 | <5 | $<5$ | $<5$ | <5 |
| Styrene | 5 | <5 | <5 | <5 | < 5 |
| 1,2-Dichlorobenzene | 10 | $<10$ | $<10$ | $<10$ | $<10$ |
| 1,3-Dichlorobenzene | 10 | $<10$ | $<10$ | $<10$ | $<10$ |
| 1,4-Dichlorobenzene | 10 | <10 | $<10$ | $<10$ | $<10$ |
| Xylene, total | 10 | $<10$ | $<10$ | $<10$ | $<10$ |
| Trichlorofluoromethane | 5 | < 5 | < | < 5 | <5 |
| Detection Limit Multiplier |  | 1 | 1 | 1 | 1 |
| DCE surrogate, \% recovery |  | 92.5 | 95.8 | 98.1 | 95.9 |
| TOL surrogare, \% recovery |  | 101 | 110 | 107 | 110 |
| BFB surrogate, \% recovery |  | 106 | 98.9 | 101 | 92.4 |

a. Test Mathods for Evaluating Solic Waste, SW-845, Third Edition, Inciucing Update i, US EPA July 1982 (method modified for additional compounds). Peruits reported on a wet weight basis.

## ANALYTICAL RESULTS

Volatile Organics in Soil
EPA Method 8240A ${ }^{a}$

| GTEL Sample Number |  | 12 | 13 | 14 | $\begin{gathered} 120594 \\ M S C \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Client Identification |  | NO-2/4 | NO/C | NO.3/5 | METHOD BLANK |
| Date Sampled |  | 11/30/94 | 11/30/94 | 11/30/94 | - |
| Date Analyzed |  | 12/06/94 | 12/06/94 | 12/05/94 | 12/05/94 |
| Analyte | Detection Limit, ug/Kg | Concentration, ug/Kg |  |  |  |
| Chioromethane | 10 | $<10$ | $<10$ | $<10$ | $<10$ |
| Bromomethane | 10 | $<10$ | $<10$ | $<10$ | $<10$ |
| Varyl chloride | 10 | $<10$ | $<10$ | $<10$ | $<10$ |
| Criorothane | 10 | $<10$ | $<10$ | $<10$ | $<10$ |
| Methylene chloride | 5 | $<5$ | < 5 | $<5$ | $<5$ |
| Acetone | 50 | $<50$ | $<50$ | $<50$ | $<50$ |
| Carbon disuffide | 5 | $<5$ | <5 | $<5$ | $<5$ |
| 1,1-Dichloroatherne | 5 | <5 | <5 | $<5$ | $<5$ |
| 1,1-Dichloroethane | 5 | <5 | <5 | $<5$ | $<5$ |
| 1,2-Dichloroethene, totad | 5 | $<5$ | <5 | $<5$ | $<5$ |
| Chloroform | 5 | <5 | $<5$ | $<5$ | $<5$ |
| 1,2-Dichoroethane | 5 | $<5$ | $<5$ | $<5$ | < 5 |
| 2-8utanone | 20 | <20 | $<20$ | $<20$ | $<20$ |
| 1,1,1-Trichloroethane | 5 | $<5$ | $<5$ | $<5$ | < |
| Carbon tetrachforide | 5 | < | <5 | $<5$ | <5 |
| Vinyl acetate | 50 | $<50$ | $<50$ | <50 | $<50$ |
| Bromodichloromethane | 5 | $<5$ | $<5$ | $<5$ | $<5$ |
| 1,2-Dichloropropane | 5 | <5 | $<5$ | <5 | < 5 |
| cis-1,3-Dichtroppropene | 5 | $<5$ | $<5$ | $<5$ | $<5$ |
| Trictloroethene | 5 | $<5$ | <5 | $<5$ | $<5$ |
| Dibromochloromethane | 5 | <5 | $<5$ | < 5 | $<5$ |
| 1,1,2-Trichloroethane | 5 | <5 | $<5$ | $<5$ | $<5$ |
| Eerzene | 5 | $<5$ | $<5$ | $<5$ | $<5$ |

a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, including Update i, US EPA July 1982 (Inethod modified for acditional compounds). Resuts reported on a wot wolght basis.

## ANALYTICAL RESULTS

Volatile Organics in Soil
EPA Method 8240A ${ }^{\text {a }}$

| GTEL Sample Number |  | 12 | 13 | 14 | $\begin{aligned} & 120594 \\ & \text { MSC } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Client Identification |  | NO-2/4 | NO/C | NO-3/5 | METHOD BLANK |
| Date Sampled |  | 11/30/94 | 11/30/94 | 11/30/94 | - |
| Date Analyzed |  | 12/06/94 | 12/06/94 | 12/05/94 | 12/05/94 |
| Analyte | Detection Limit, ug/Kg | Concentration, ug/ $/ \mathrm{Kg}$ |  |  |  |
| trans-1,3-Dichloropropene | 5 | <5 | $<5$ | <5 | $<5$ |
| 2-Chioroethytvinyl ether | 10 | $<10$ | <10 | $<10$ | $<10$ |
| Bromoform | 5 | <5 | $<5$ | <5 | $<5$ |
| 4-Methyl-2-pentanone | 20 | $<20$ | $<20$ | $<20$ | $<20$ |
| 2-Hexamone | 20 | <20 | $<20$ | $<20$ | $<20$ |
| Tefrachloroethene | 5 | <5 | <5 | $<5$ | $<5$ |
| 1,1,2,2-Tetrachloroothane | 5 | <5 | $<5$ | $<5$ | $<5$ |
| Toluene | 5 | <5 | $<5$ | $<5$ | $<5$ |
| Chlorobenzene | 5 | $<5$ | <5 | $<5$ | <5 |
| Ethyibenzene | 5 | <5 | $<5$ | $<5$ | $<5$ |
| Styrene | 5 | <5 | $<5$ | $<5$ | <5 |
| 1,2-Dichlorobenzene | 10 | $<10$ | $<10$ | $<10$ | $<10$ |
| 1,3-Dichlorobenzene | 10 | $<10$ | $<10$ | $<10$ | $<10$ |
| 1,4-Dichlorobenzene | 10 | $<10$ | $<10$ | $<10$ | $<10$ |
| Xylene, total | 10 | $<10$ | $<10$ | $<10$ | $<10$ |
| Trichlorofiuoromethane | 5 | <5 | <5 | <5 | <5 |
| Detection Lima Multiplier |  | 1 | 1 | 1 | 1 |
| DCE surrogate, \% recovery |  | 101 | 103 | 94.7 | 94.6 |
| TOL surrogate, \% recovery |  | 115 | 92.1 | 112 | 101 |
| BFB surrogate, \% recovery |  | 96.9 | 95.6 | 102 | 102 |

8. Test Methods for Evaluating Solid Waste, SW-846, Thlid Edition, Induding Update 1, US EPA July 1992 (mothod modified for addrional compounds). Feseutis reportod on a wot waight basis.

## ANALYTICAL RESULTS

Volatile Organics in Soil
EPA Method 8240A ${ }^{\text {a }}$

| GTEL Sample Number |  | $\begin{gathered} 120694 \\ \text { MSC } \end{gathered}$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Cient Identification |  | METHOD BLANK |  |  |  |
| Date Sampled |  | -- |  |  |  |
| Date Analyzed |  | 12/06/94 |  |  |  |
| Analyte | Detection Limit, ug $/ \mathrm{Kg}$ | Concentration, $\mathrm{ug} / \mathrm{Kg}$ |  |  |  |
| ChJoromethane | 10 | $<10$ |  |  |  |
| Bromomethane | 10 | $<10$ |  |  |  |
| Vinyl chloride | 10 | $<10$ |  |  |  |
| Chloroethane | 10 | $<10$ |  |  |  |
| Methylene choride | 5 | $<5$ |  |  |  |
| Acetone | 50 | <50 |  |  |  |
| Carton disulfide | 5 | < |  |  |  |
| 1,1-Dichloroethene | 5 | <5 |  |  |  |
| 1,1-Dichloroethane | 5 | < |  |  |  |
| 1,2-Dichioroethene, total | 5 | <5 |  |  |  |
| Chloroform | 5 | <5 |  |  |  |
| 1,2-Dichloroethane | 5 | <5 |  |  |  |
| 2-Butanone | 20 | $<20$ |  |  |  |
| 1,1,1-Trichloroethane | 5 | <5 |  |  |  |
| Carbon tetrachloride | 5 | $<5$ |  |  |  |
| Vhyl acetate | 50 | $<50$ |  |  |  |
| Bromodichloromethane | 5 | <5 |  |  |  |
| 1,2-Dichloropropane | 5 | <5 |  |  |  |
| cis-1,3-Dichloropropene | 5 | <5 |  |  |  |
| Trictiloroethene | 5 | <5 |  |  |  |
| Dffromochloromethane | 5 | < 5 |  |  |  |
| 1,1,2-Trichloroethane | 5 | $<5$ |  |  |  |
| Berzene | 5 | <5 |  |  |  |

a. Test Nechods for Evaluating Sold Waste, SW-896, Third Edition, Including Updata 1, US EPA July 1992 (method modified for addrional compounds). Resuits reported on a wet waight basls.

## ANALYTICAL RESULTS

Volatile Organics in Soil
EPA Method 8240Aa

| GTEL Sample Number |  | $\begin{gathered} 120694 \\ \text { MSC } \end{gathered}$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Cient Identification |  | METHOD BLANK |  |  |  |
| Date Sampled |  | - |  |  |  |
| Date Analyzed |  | 12/06/94 |  |  |  |
| Analyte | $\begin{gathered} \text { Detection } \\ \text { Limit, ug/Kg } \end{gathered}$ | Concentration, ug/Kg |  |  |  |
| trans-1,3-Dichioropropene | 5 | <5 |  |  |  |
| 2-Chloroethytuinyl gther | 10 | $<10$ |  |  |  |
| Bromoform | 5 | $<5$ |  |  |  |
| 4-Methyl-2-pemtanone | 20 | $<20$ |  |  |  |
| 2-Hexanone | 20 | $<20$ |  |  |  |
| Tetrachioroethene | 5 | <5 |  |  |  |
| 1,1,2,2-Teirachloroethane | 5 | $<5$ |  |  |  |
| Toluene | 5 | $<5$ |  |  |  |
| Cilorabenzere | 5 | $<5$ |  |  |  |
| Ethylbenzene | 5 | $<5$ |  |  |  |
| Styrene | 5 | $<5$ |  |  |  |
| 1,2-Dichlorobenzene | 10 | $<10$ |  |  |  |
| 1,3-Dichlorobenzene | 10 | $<10$ |  |  |  |
| 1,4-Dichloroberzene | 10 | $<10$ |  |  |  |
| Xylene, iotal | 10 | $<10$ |  |  |  |
| Trichiorofluoromethane | 5 | $<5$ |  |  |  |
| Detection Limut Muttpiler |  | 1 |  |  |  |
| DCE surrogate, \% recovery |  | 105 |  |  |  |
| TOL surrogate, \% recovery |  | 113 |  |  |  |
| BFB surrogate, \% recovery |  | 96.2 |  |  |  |

a. Test Mothods for Evaluating Solid Waste, SW-846, Third Edition. Inctuding Lposto 1, US EPA July 1992 (mothod modifind for addritional compounds). Fuesults reported on a wet weight besio.

## APPENDIX G

CAL.IFORNIA ASSESSMENT METALS, STLC AND TTLC, I_ABORATORY REPORTS

## ANALYTICAL RESULTS

CAM List of Metals in Soil (TTLC) ${ }_{a}$

| GTEL Sample Number |  |  | 08 | 09 | 10 | 11 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Cliert Identification |  |  | W0-1/2 | WO-C | wa-2/4 | NO-1/2 |
| Date Sampled |  |  | 11/30/94 | 11/30/94 | 11/30/94 | 11/30/94 |
| Date Prepared (Method 3055 ${ }^{\text {b }}$ ) |  |  | 12/07/94 | 12/07/94 | 12/07/94 | 12/07/94 |
| Date Analyzed (Method 6010) |  |  | 12/08/94 | 12/08/94 | 12/08/94 | 12/08/94 |
| Date Analyzed (Method 7060) |  |  | 12/08/94 | 12/08/94 | 12/08/94 | 12/08/94 |
| Date Prepared and Anatyzed (Method 7470) |  |  | 12/07/94 | 12/07/94 | 12/07/94 | 12/07/94 |
| Analyte | EPA Methoda | $\begin{array}{\|c\|} \hline \text { Detection } \\ \text { Limit, } \mathrm{mg} / \mathrm{Kg} \\ \hline \end{array}$ | Concentration, mg/ Kg |  |  |  |
| Artimony | EPA $6010{ }^{\circ}$ | 5 | $<5$ | <5 | $<5$ | $<5$ |
| Arsenic | EPA 7060 | 0.5 | 5.5 | 6.3 | 2.5 | 4.0 |
| Barium | EPA $6010{ }^{\circ}$ | 1 | 150 | 180 | 55 | 100 |
| Beryllium | EPA $6010{ }^{\circ}$ | 0.5 | 0.6 | $<0.5$ | $<0.5$ | $<0.5$ |
| Cadmium | EPA $6010{ }^{\circ}$ | 0.5 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| Chromium, total | EPA $9010{ }^{\circ}$ | 1 | 30 | 62 | 38 | 92 |
| Cobalt | EPA $6010{ }^{\circ}$ | 1 | 9 | 15 | 8 | 19 |
| Copper | EPA 6010 ${ }^{\circ}$ | 1 | 28 | 27 | 11 | 17 |
| Lead | EPA $6010{ }^{\circ}$ | 5 | 8 | 9 | $<5$ | 6 |
| Mercury | EPA 7470 | 0.1 | $<0.1$ | $<0.1$ | $<0.1$ | $<0.1$ |
| Molybdenum | EPA $0010{ }^{\circ}$ | 1 | 1 | 1 | $<1$ | $<1$ |
| Nickel | EPA $6010{ }^{\circ}$ | 2 | 41 | 90 | 59 | 100 |
| Selenium | EPA $6010{ }^{\circ}$ | 5 | <5 | $<5$ | <5 | <5 |
| Siver | EPA $6010^{\circ}$ | 1 | $<1$ | $<1$ | $<1$ | $<1$ |
| Thallium | EPA $6010{ }^{\text {d }}$ | 5 | $<5$ | <5 | $<5$ | < 5 |
| Vanadium | EPA $6010{ }^{\circ}$ | 1 | 32 | 35 | 22 | 44 |
| Zinc | EPA $6010{ }^{\circ}$ | 5 | 58 | 56 | 34 | 35 |
| Dstection Limit Mutiplier |  |  | 1 | 1 | 1 | 1 |

2. Test Mothods for Evaluating Soltd Waste, SW-848, Third Edition, Revitslon O, US EPA Novernber 1993. Pesults reportod on a wot weight bests
b. Draft EPA method 3055 SW-s46 Third Acdrition Reytsion 1 S8pt. 1991.
a Inductivety Coupled Aron Plasma (ICP).
d. Graphite Furnes Atomio Abserption (GFAA).
-. Cold Vepor Atomic Absorption (CVAA).

## ANALYTICAL RESULTS

CAM List of Metals in Soil (TTLC) ${ }_{\mathbf{a}}$

| GTEL Sample Number |  |  | 12 | 13 | 14 | $\begin{gathered} 120794 \\ M E T \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Client Identification |  |  | NO-2/4 | NO/C | NO.3/5 | $\begin{gathered} \text { METHOO } \\ \text { BLANK } \\ \hline \end{gathered}$ |
| Date Sampled |  |  | 11/30/94 | 11/30/94 | 11/30/94 | - |
| Date Prepared (Method 3055 ${ }^{\circ}$ ) |  |  | 12/07/94 | 12/07/94 | 12/07/94 | 12/07/94 |
| Date Analyzed (Method 6010) |  |  | 12/08/94 | 12/08/94 | 12/08/94 | 12/08/94 |
| Date Analyzed (Mothod 7060) |  |  | 12/08/94 | 12/08/94 | 12/08/94 | 12/08/94 |
| Date Prepared and Analyzed (Method 7470) |  |  | 12/07/94 | 12/07/94 | 12/07/94 | 12/07/94 |
| Analyte | EPA Methoda | Detection Uimit, $\mathrm{mg} / \mathrm{Kg}$ | Concentration, $\mathrm{mg} / \mathrm{Kg}$ |  |  |  |
| Antimory | EPA $6010{ }^{\circ}$ | 5 | $<5$ | $<5$ | < 5 | <5 |
| Arsenic | EPA 7060 | 0.5 | 9.3 | 6.2 | 7.5 | $<0.5$ |
| Barium | EPA6010 | 1 | 130 | 120 | 170 | $<1$ |
| Berylium | EPA $6010{ }^{\circ}$ | 0.5 | $<0.5$ | $<0.5$ | 0.6 | $<0.5$ |
| Cadmium | EPA $6010{ }^{\circ}$ | 0.5 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| Chromium, total | EPA 60100 | 1 | 68 | 51 | 210 | $<1$ |
| Cobalt | EPA $60100^{\circ}$ | 1 | 16 | 11 | 21 | $<1$ |
| Copper | EPA $6010{ }^{\circ}$ | 1 | 47 | 42 | 35 | $<1$ |
| Lead | EPA $6010{ }^{\circ}$ | 5 | 6 | 6 | 8 | <5 |
| Mercury | EPA $7470{ }^{\circ}$ | 0.1 | 0.1 | 0.1 | 0.1 | $<0.1$ |
| Molybdenum | EPA 6010 | 1 | 1 | $<1$ | 1 | $<1$ |
| Nickel | EPA 0010 | 2 | 110 | 85 | 180 | $<2$ |
| Selonium | EPA $0010{ }^{\circ}$ | 5 | $<5$ | <5 | <5 | $<5$ |
| Siver | EPA $6010{ }^{\circ}$ | 1 | $<1$ | $<1$ | $<1$ | $<1$ |
| Tranlium | EPA $6010{ }^{\circ}$ | 5 | $<5$ | $<5$ | $<5$ | $<5$ |
| Vanadium | EPA 60100 | 1 | 44 | 40 | 46 | $<1$ |
| Zinc | EPA 60100 | 5 | 69 | 80 | 70 | <5 |
| Detection Limit Mutiplior |  |  | 1 | 1 | 1 | 1 |

a. Test Methods for Evaluating Solfd Waste, SWeat, Third Edition, Pavision O. US EPA November 19e6. Fesuhts reported on a wet wetght besis
b. Oraf EPA meshod 3055 SW-846 Third Addition Revision 1 Sept. 1991.
c. Insuctivaly Coupled Argon Pissma (ICP).
d. Graptite fumace Atomile Abeorption (GiFAA).

- Cold Vapor Atomic Alssorption (CVAA).


## APPENDIX H

CHAIN OF CUSTODY FORMS




Northwest Region
4080-C Pika Lone
Concord, CA 94520
(510) 685.7852
(800) 544-3422 from inside Colifomio
(800) 423-7143 from outside California
(S10) 825-0720 (FAX)
December 13, 1994

## Eileen Brennan

Groundwater Technology, Inc.
275 South Temple, Suite 321
Salt Lake City, UT 84111

Enclosed please find the analytical results for samples received by GTEL Environmental Laboratories, Inc. on 12/01/94, under chain of custody record 33111 and 33113.
A formal Quality Assurance/Quality Control (QA/QC) program is maintained by GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria, unless otherwise stated in the footnotes. This report is to be reproduce only in full.
GTEL is certified by the California State Department of Health Services, Laboratory certification number E1075, to perform analyses for drinking water, wastewater, and hazardous waste materials according to EPA protocols.

If you have any questions concerning this analysis or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,
GTEL Environmental Laboratories, Inc.


DEem
Rashmi Shan
Laboratory Director

# GTE <br> ENVIRONMENTAL LABORATORIES. INC. 

Client Number: Qe0e00002s
Protect 10: Seers 1528 9000 Nortrgato San Fitted, CA Work Order Number: Cf-11-OASS

## Northwest Region

4080.C Pike lone

Concord, CA 94520
(510) 685.7852
(800) 544-3422 from inside California
(800) 423.7143 from outside Colifornio
(S10) 825.0720 (FAX)
December 6, 1994

## Eileen Brennan

Groundwater Technology, Inc.
275 South Temple, Suite 321
Sat Lake City, UT 84111

Enclosed please find the analytical results for samples received by GTEL Environmental Laboratories, Inc. on 11/30/94, under chain of custody records 30200 and 33586.
A formal Quality Assurance/Quality Control (QA/QC) program is maintained by GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/ QC criteria, unless otherwise stated in the footnotes. This report is to be reproduce only in full.
GTEL is certified by the California State Department of Health Services, Laboratory certification number E1075, to perform analyses for drinking water, wastewater, and hazardous waste materials according to EPA protocols.
If you have any questions concerning this analysis or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,
GTEL Environmental Laboratories, Inc.

ron
Rashmi Shah Laboratory Director


GTEL
ENVIRONMENTAL LABORATORIES, INC.
Wemern Regros 0030 Pribe Lans, Surat C Concord, CA94520
(510) 685.7852
(800) 344.3422 imide $C A$

EAX ( 570 ) 825.0720


Decernber 13, 1994

## Eleon Breman

Grochewater Tocturiogy, inc.
275 South Temple, Suize 321

## Sel Lake City, UT 84111

Enolosed please find the enalytical resuits for samplos rocuived by GTE. Emiontrortal Latoratories, trici on 12/01/94, under chain of custody record 33582 .
A tormal Quasiy Assuranco/Curity Corndol (OA/QC) program is meineined by GFPL which is designed to meet or expoed the EPA requrromith. Ansilytices worktorttls project Imet OA/ CC criporia, uriess otherwise stated in tha footrotess. This report is to be reprocuced only in fin.
GTEl is certiod by tre Cefforma Stede Depertment of Hesith Services, Leborefory eertifarton number E1075, to porfomm ralysestor dinking watar, westawater, and hazarcous wasta materiaks acooring to EPA protocols.
 please call our Customer Servica Represertative.

Sinceroly,
GTEL Environmertal Leborataitios, ha


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Rosimil Shah Leborationy Divector



# GTE 

ENVIRONMENTAL

Client Number: 0000000005
Trofeal iD: seats 1528 8000 Northyin
Work Order Number: C4-12-001:

LABORATORIES, INC.
Western Region
AOBO Pike Lone, Suite C
Concord, CA 94520
(510) 685.7852
( 8001544.3422 inside CA
FAX (510) 825.0720
December 13, 1994

Eileen Brennan
Groundwater Technology, inc.
275 South Temple, Suite 321
Salt Lake City, UT 84111
Enclosed please find the analytical results for samples received by GTEL Environmental Laboratories, Inc. on 12/01/94, under chain of custody record 33582.
A formal Quality Assurance/Quality Control (QA /OC) program is maintained by GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met OA/ OC criteria, unless otherwise stated in the footnotes. This report is to be reproduce only in full.
GTEL is certified by the California State Department of Health Services, Laboratory coatifrication number E1075, to perform analyses for drinking water, wastewater, and hazardous waste materials according to EPA protocols.
If you have any questions concerning this analysis or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,
GTEL Environmental Laboratories, Inc.




Rashmi Shah
Laboratory Director


## DAMES \& MOORE

A DAMES \& MOORE GROUP COMPANY

Hydraulic Lift Removal, Assessment, and Site Remediation Activities<br>Sears Store \#1528<br>9000 Northgate Drive<br>San Rafael, California

Prepared for :
Sears, Roebuck and Co.
Job No. 00188-166-043
February 7, 1997

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# HYDRAULIC LIFT REMOVAL, ASSESSMENT, AND SITE REMEDIATION ACTIVITIES SEARS STORE \#1528 <br> 9000 Northgate Drive <br> San Rafael, California 

Prepared For:
Sears, Roebuck and Co.
D\&M Job No. 00188-166-043
February 7, 1997

### 1.0 INTRODUCTION

This report presents the results of Dames \& Moore's environmental oversight related to the removal of three hydraulic lifts at the Automotive Center of Sears Store \#1528 located at 9000 Northgate Drive in San Rafael, California (Figure 1). The environmental oversight was conducted for Sears, Roebuck and Co. (Sears) in accordance with Dames \& Moore's Request for Authorization dated February 5, 1996. Lift removals were performed as part of a Site remodel. Field activities were performed on March 7, 1996. Following field and disposal activities, Dames \& Moore prepared this report outlining the field procedures used, laboratory analytical results, and remedial measures performed at the Site.

### 2.0 SITE DESCRIPTION

### 2.1 SITE FEATURES

Sears Store \#1528 is located at the southwestern end of the Northgate Mall in San Rafael, California The Automotive Center (Site) is a two-story building that houses a service counter and display area, and a garage area on the first floor with 19 service bays for automotive service and maintenance. The second floor contains an employee break room, bathrooms and lockers, and a large storage area. For purposes of this remodel, Lifts 1,2 , and 3 needed to be removed. These bays were located in the southwest corner of the Automobile Center (Figure 2). Lifts 1, 2, and 3 were single-post lifts. Photographs of the field activities are provided in Appendix A.

### 2.2 LOCAL HYDROGEOLOGY

The assumed local groundwater flow direction, based on surface topography, is to the north towards Santa Margarita Valley. Regionally, groundwater is assumed to flow northeast toward Gallinas Creek and San Francisco Bay. United States Geologic Survey Professional Paper 943, titled Flatland Deposits-Their Geology and Engineering Importance to Comprehensive Planning (Halley and LaJoie, 1979), indicates that the Site is underlain by bedrock. Bedrock in the San Rafael area consists of a complex assemblage of sedimentary, igneous, and metamorphic rocks of Jurassic and Cretaceous age

### 3.0 FIELD ACTIVITIES

### 3.1 WORK PARAMETERS DETERMINATION

In accordance with California State Senate Bill SB 1191, hydraulic lift tanks are exempt from underground storage tank regulations with regards to operating permits and associated reporting requirements. Any releases to the environment, however, must be remediated to the extent that there is no significant adverse effect to human health or the environment. Currently, the State of California does not have strict cleanup standards for hydraulic oils in soil. Cleanup guidance criteria are normally provided by the Regional Water Quality Control Boards (RWQCB) and/or local oversight agencies. The RWQCB-recommended cleanup criteria for petroleum hydrocarbons in soil is generally 100 milligrams per kilogram ( $\mathrm{mg} / \mathrm{kg}$ ) for total petroleum hydrocarbons (TPH) as gasoline and 1,000 $\mathrm{mg} / \mathrm{kg}$ for TPH as oil. Active cleanup is typically required of soils impacted by volatile and semivolatile hydrocarbon compounds if concentrations exceed about 10 times the equivalent Maximum Contaminant Level (MCL) concentrations for drinking water listed in Title 22 of the California Code of Regulations. Additional guidance for cleanup criteria of individual hydrocarbon compounds is provided by the US EPA Region 9 Preliminary Remedial Goals (PRGs) and Soil Screening Levels.

In accordance with the above criteria, Dames \& Moore collected samples for hydrocarbon analysis during the lift removal process. Soil samples were initially analyzed for TPH by a Hydrocarbon SemiQuantitative Fuel Scan [C4-C12 (gasoline range), $\mathrm{C} 13-\mathrm{C} 22$ (diesel range), and $\mathrm{C} 23+$ (oil range)] using modified EPA Method 8015. If concentrations exceeded $100 \mathrm{mg} / \mathrm{kg}$, then the soil sample with the highest TPH value was also analyzed for semi-volatile organic compounds (SVOCs) by EPA Method 8270, volatile organic compounds (VOCs) by EPA Method 8240, and polychlorinated biphenyls (PCBs) by EPA Method 8080 . Remedial excavation would be implemented if concentrations exceeded the guidance criteria stated above.

### 3.2 INITIAL SOILS ASSESSMENT

As part of the field activities, Dames \& Moore field personnel were required to review and sign a Health and Safety Plan (HSP) that was prepared for the Site. The HSP was prepared to aid in the safe handling of materials potentially containing elevated levels of chemicals During the investigation, requirements of the HSP were met, including daily site safety briefings.

Prior to the startup of Dames \& Moore's field activities, Walker Hydraulic (Contractor) cut and removed the concrete slab around each of the lifts. The lifts did not have associated hydraulic lines. Following removal of the concrete slabs and hydraulic lifts, Dames \& Moore personnel collected soil samples from three locations at the lift cylinders: one at the surface, one at three feet below ground surface (bgs), and one at the base of the post (approximately seven feet bgs). However, a sample was not collected at the 3 -foot depth at Lift 1 .

All samples up to 7 feet bgs were collected using a hand auger. Sample material was placed into 4ounce jars supplied by the analytical laboratory and sealed with Teflon-lined lids. Sample collection was performed following strict environmental protocol to avoid cross-contamination. Soils observed during sample collection consisted of sandy fill materials immediately around the lifts. Native soils beyond the fill material are primarily silt and clay.

Soil samples were submitted to an onsite mobile laboratory and analyzed for total petroleum hydrocarbons as gasoline (TPH-g; C4-C12), as diesel (TPH-d; C13-C22), and as hydraulic oil (TPH$h ; \mathrm{C} 23+$ ) by modified EPA Method 8015. The samples collected from three feet bgs were held pending analysis of surface samples. Results of the sample analyses indicated the following:

- TPH-g and TPH-d were not detected in any of the samples.

Lift 1:

- TPH-h was detected at $87 \mathrm{mg} / \mathrm{kg}$ in the surface sample at Lift 1 and at $320 \mathrm{mg} / \mathrm{kg}$ in the 7 -foot sample.
Lift 2:
- TPH-h was detected at $5,500 \mathrm{mg} / \mathrm{kg}$ in the surface sample at Lift 2 , at $270 \mathrm{mg} / \mathrm{kg}$ in the 3 -foot sample, and at $220 \mathrm{mg} / \mathrm{kg}$ in the 7 -foot sample.


## Lift 3:

- $\mathrm{TPH} \cdot \mathrm{d}$ was detected at $11,000 \mathrm{mg} / \mathrm{kg}$ in the surface sample at Lift 3 , at $43 \mathrm{mg} / \mathrm{kg}$ in the 3 -foot sample, and at $830 \mathrm{mg} / \mathrm{kg}$ in the 7 -foot sample.

In general accordance with the Work Parameters Determination (Section 3.1), one of the samples with the highest concentration of hydraulic oil, in this case the surface sample from Lift 2 (5,500 $\mathrm{mg} / \mathrm{kg}$ TPH-h), was also analyzed for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), and polychlorinated biphenyls (PCBs), by EPA Methods 8240, 8270, and 8080, respectively. Analytical results showed no detectable VOCs, but did indicate detection of 0.48 $\mathrm{mg} / \mathrm{kg}$ PCB aroclor 1260 and $2.5 \mathrm{mg} / \mathrm{kg}$ of the SVOC bis (2-ethylhexyl) phthalate. Results of soil sample analyses are listed in Table 1, and laboratory reports are included as Appendix B.

In summary, results of the initial soils assessment indicated that a number of soil samples exceeded the cleanup guidance criteria for hydraulic oil ( $1,000 \mathrm{mg} / \mathrm{kg}$ ) as outlined in the Work Parameters Determination (Section 3.1). These sample areas included the Lift 2 and 3 cylinder areas.

### 3.3 HYDRAULIC LIFT REMOVAL AND REMEDIAL ACTION

Following the initial soils assessment, the hydraulic lifts were removed and a remedial excavation was performed in areas where hydrocarbon concentrations exceeded the cleanup criteria. The cylinders from Lifts 1, 2, and 3 were completely removed on March 7, 1996, prior to the remedial excavation. Impacted soils were excavated on March 7, 1996. Soils containing concentrations of hydraulic oil above $1,000 \mathrm{mg} / \mathrm{kg}$ were excavated from around Lifts 2 and 3. Because analytical results from the 3-foot samples at Lifts 2 and 3 were below cleanup guidance levels, additional confirmatory samples were not collected by Dames \& Moore from the excavation.

A summary of remediation activities by lift is provided below.

## Litt 2

The Lift 2 cylinder area was excavated to a depth of 3 feet bgs. TPH-h was detected at $270 \mathrm{mg} / \mathrm{kg}$ (below the $1,000 \mathrm{mg} / \mathrm{kg}$ cleanup guidance) in the 3 -foot sample collected during the prior soils assessment at Lift 2.

## Lift 3

The Lift 3 cylinder area was excavated to a depth of 3 feet bgs. TPH-h was detected at 43 $\mathrm{mg} / \mathrm{kg}$ (below the $1,000 \mathrm{mg} / \mathrm{kg}$ cleanup guidance) in the 3 -foot sample collected during the prior soils assessment at Lift 2 .

Excavated soil was stored on, and covered by, plastic sheeting in the Sears Automotive Center parking lot. Following excavation activities, the areas were backfilled with clean, imported soil and resurfaced with concrete

### 3.4 WASTE MANAGEMENT

Excavated material from Lifts 1,2, and 3 were stored on, and covered by, plastic sheeting in the Sears Automotive Center parking lot. One small stockpile was created during the soil excavation. On March 7, 1996, a Dames \& Moore representative collected four soil samples from the stockpile. The four samples were composited by the onsite mobile laboratory and the four-point composite sample was analyzed for total recoverable petroleum hydrocarbons (TRPH) by EPA Method 418.1, and for metals by EPA Method 6010. Analytical results indicated $1,500 \mathrm{mg} / \mathrm{kg}$ of TRPH, $43 \mathrm{mg} / \mathrm{kg}$ of chromium, $57 \mathrm{mg} / \mathrm{kg}$ of nickel, and $33 \mathrm{mg} / \mathrm{kg}$ of zinc. On the basis of these results, the soil (approximately one cubic yard) was transported as non-hazardous waste to Remedial Environmental Marketing Company (REMCO) in Richmond, California, for thermal treatment and recycling as road base. A copy of the Non-Hazardous Waste Manifest is included in Appendix C.

Hydraulic oil associated with the lifts was drained from the equipment and stored in 55-gallon drums. The hydraulic oil was managed as recyclable waste by Sears Automotive Center personnel.

### 4.0 SUMMARY AND CONCLUSIONS

A total of three hydraulic lifts (Lifts 1, 2, and 3) were removed from the Automotive Center at Sears Store \#1528. The three lifts were single-post lifts. Results of an initial soils assessment indicated that hydraulic oil concentrations exceeded cleanup guidance criteria ( $1,000 \mathrm{mg} / \mathrm{kg}$ ) within certain areas. On the basis of these results, soils beneath Lifts 2 and 3 were overexcavated to a depth of 3 feet bgs.

Surface piping, supports, and associated equipment were removed from each of the three lifts. Hydraulic oil associated with the lifts was drained from the equipment and stored in 55-gallon drums.

Soil surrounding the lifts was excavated as needed to remove the lifts and stockpiled on site. The casings and surrounding excavations were backfilled with imported fill and resurfaced with concrete

Approximately one cubic yard of excavated soil impacted with petroleum hydrocarbons were transported as non-hazardous waste to Remedial Environmental Marketing Company (REMCO) in Richmond, California, for thermal treatment and recycling as road base. The hydraulic oil was managed as recyclable waste by Sears Automotive Center personnel.

On the basis of State and Federal regulations governing hydraulic oil contamination in soils, it is Dames \& Moore's opinion that subsurface soils surrounding the former Lifts 1, 2, and 3 (removed during this remodel) have been remediated to environmentally acceptable conditions.

### 5.0 LIMITATIONS

The conclusions presented in this report are professional opinions based solely upon visual observations of the Site and our interpretation of the analytical data obtained. They are intended for the purpose outlined herein and at the Site location and project indicated. This report is for the sole use of Sears. The scope of the services performed in the execution of this investigation may not be appropriate to satisfy the needs of other users, and any re-use of this document or the findings, conclusions, or recommendations presented herein is at the sole risk of the said user.

It should be recognized that this study was not intended to be a definitive investigation of contamination of the subject property, but is limited to the scope of hydraulic lift removal stated in this report. Opinions and conclusions presented herein apply to Site conditions existing at the time of the investigation. They cannot necessarily apply to changes at the Site of which this office is not aware and has not had the opportunity to evaluate. This report is intended for the use in its entirety; no excerpt may be taken to be representative of the findings of this investigation.
$-000-$

Please feel free to contact us if you have questions or require further assistance.

Respectfully submitted,
DAMES \& MOORE


Tapas B Truk, R G.
Senior Geologist
Project Manager

| Sample <br> Location | $\begin{gathered} \text { Sample } \\ \text { I.D. } \\ \hline \end{gathered}$ | Sample <br> Depth <br> (ft) | $\begin{aligned} & \text { Sample } \\ & \text { Date } \end{aligned}$ | Notes | LABORATORY ANALYTICAL RESULTS* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | TOTAL PETROLEUM HYDROCARBONS |  |  |  |  |  | AROMATIC HYDROCARBONS |  |  |  | PCBs <br> Aroclor 1260 <br> (mg/kg) |  | Metals |  |  |  |  |  |
|  |  |  |  |  |  | $\begin{gathered} \mathrm{TPH}-\mathrm{g} \\ (\mathrm{mg} / \mathrm{kg}) \end{gathered}$ |  | $\begin{aligned} & \text { TPH-d } \\ & (\mathrm{mg} / \mathrm{kg}) \end{aligned}$ | $\begin{aligned} & \text { TPH-h } \\ & \text { (mg/kg) } \end{aligned}$ | $\begin{gathered} \mathrm{TRPH} \\ (\mathrm{mg} / \mathrm{kg}) \\ \hline \end{gathered}$ | $\begin{gathered} B \\ (\mathrm{mg} / \mathrm{kg}) \\ \hline \end{gathered}$ | $\begin{gathered} \mathrm{T} \\ (\mathrm{mg} / \mathrm{kg}) \end{gathered}$ | $\begin{gathered} \mathrm{E} \\ (\mathrm{mg} / \mathrm{kg}) \end{gathered}$ | $\begin{gathered} X \\ (\mathrm{mg} / \mathrm{kg}) \end{gathered}$ |  |  |  | $\begin{gathered} \text { Lead } \\ (\mathrm{mg} / \mathrm{kg}) \end{gathered}$ | Cadmium ( $\mathrm{mg} / \mathrm{kg}$ ) | Chromium (mg/kg) | $\begin{gathered} \text { Nickel } \\ (\mathrm{mg} / \mathrm{kg}) \end{gathered}$ | $\begin{gathered} \text { Zinc } \\ (\mathrm{mg} / \mathrm{kg}) \end{gathered}$ |
| 1 | 1-0 | 0 | 3/7/96 | 2 | < | 200 | $<$ | 200 | 87 | -- | -- | -- | -- | $\cdots$ | -- | -- |  | -- | -- | -- | .- | -- |
| 1 | $1-7$ | 7 | 3/7196 | 2 | < | 200 | $<$ | 200 | 320 | - | -- | -- | -- | -- | $\cdots$ | -- |  | -- | - | -- | -- | -- |
| 2 | 2-0 | 0 | 3/7/96 | 1,4 | $<$ | 200 | < | 200 | 5,500 | .. | < 0.03 | < 0.03 | < 0.03 | < 0.1 | 048 | 2.5 |  | -- | -- | -- | -- | -- |
| 2 | 2-3 | 3 | 3/7196 | 2 | $<$ | 200 | < | 200 | 270 | -- | -- | -- | --- | -- | -- | .- |  | -- | $\cdots$ | -- | -- | -- |
| 2 | 2-7 | 7 | 3/7/96 | 2 | < | 200 | $<$ | 200 | 220 | -- | -- | -- | -- | -- | -- | -- |  | -- | -- | .- | -- | -- |
| 3 | 3-0 | 0 | 3/7/96 | 1 | $<$ | 200 | $<$ | 200 | 11,000 | -- | -- | -- | -- | -- | -- | -- |  | -- | -- | -- | -- | .- |
| 3 | 3-3 | 3 | 3/7/96 | 2 | $<$ | 200 | < | 200 | 43 | - | -- | -- | -- | -- | - | .- |  | -- | -- | -- | -- | -- |
| 3 | 3.7 | 7 | 3/7/96 | 2 | $<$ | 200 | $<$ | 200 | 830 | -- | $\cdots$ | -- | -- | -- | -- | -- |  | -- | -- | -- | -. | -- |
| SP | SP-1 | -- | 3/7/96 | 5 |  | -- |  | -- | -- | 1500 | -- | -- | -- | -- | -- | -- | < | 5 | < | 43 | 57 | 33 |

Explanation/Notes
$=$ Only detected compounds wilhin the Bay Area sites are listed

1. $=$ Surrounding soils excavated and removed offsite
2. = Sample of soils remaining in place
. $=$ No Sample Recovery
3. $=$ Duplicate sample analysis
$5=$ Four point composite stockpile sample
<=Analytical result less than the detection limit indicated
$-=$ Either not sampled and/or not tested for given parameter
$1 \mathrm{PH}-\mathrm{g}=$ Iotal Petroleum Hydrocarbons as gasoline by EPA Method 8015 (modified)
$\mathrm{PH}-\mathrm{d}=$ Total Petroleum Hydrocarbons as diesel by EPA Method 8015 (modified)
TPH- $\mathrm{h}=$ Iotal Petroleum Hydrocarbons as hydraulic fluid by EPA Method 8015 (modified)
TRPH = Iotal Recoverable Petroleum Hydrocarbons by EPA Method 418
BIEX $=$ Volatile aromatic constituents Benzene, Ioluene, Elhylbenzene,
and Xylenes by EPA Method 8020 or 8240
Aroclor $1260=$ polychlorinated biphenyl (PCB) by EPA Method 8080
Metals analyzed by EPA Method 601
bis-phthalate $=$ bis(2ethylhexyl)phhthalate by EPA Method 8270


Figure 1
SITE VICINITY MAP



## APPENDIX A

## SITE PHOTOGRAPHS



Photograph 1. Lift 3 after cylinder has been removed


Photograph 2. Lift 2 after cylinder has been removed

## APPENDIX B

## LABORATORY REPORTS

LOG NO: G96-02-506
Received: 07 MAR 96 Mailed : 26 APR 96

Mr. Branden Born

Dames and Moore
221 Main Street, Suite 600
San Francisco, CA 94105-1917
Project: SEARS.SANRAFAEL

# REPORT OF ANALYTICAL RESULTS 

Page 1
LOG NO SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLES DATE SAMPLED
02-506-1 2-0' 07 MAR 96

PARAMETER
Semi-volatiles (8270)
Date Analyzed
02-506-1

Date Analyzed
0.3/12/96

Date Extracted
03/12/96
Dilution Factor, Times
1,2,4-Trich lorobenzene, $\mathrm{mg} / \mathrm{kg} \quad<1$
1,2-Dichlorobenzene, $\mathrm{mg} / \mathrm{kg} \quad<1$
1,2 -Diphenylhydrazine, $\mathrm{mg} / \mathrm{kg} \quad<1$
1,3 -Dichlorobenzene, $\mathrm{mg} / \mathrm{kg} \quad<1$
1,4 -Dichlorobenzene, $\mathrm{mg} / \mathrm{kg} \quad<1$
2,4,5-Trichlorophenol, $\mathrm{mg} / \mathrm{kg} \quad<1$
2,4,6-Trichlorophenol, mg/kg <1
2,4-Dichloropheno1, mg/kg <1
2,4-Dimethylphenol, mg/kg <1
2,4-Dinitrophenol, mg/kg <2
2,4-Dinitrotoluene, $\mathrm{mg} / \mathrm{kg} \quad<1$
2,6-Dinitrotoluene, mg/kg <1
2-Chloronaphthalene, mg/kg <1
2-Chlorophenol, mg/kg
$<1$
2-Methyl-4,6-dinitrophenol, mg/kg $\lll 1$
2-Methylnaphthalene, mg/kg $\quad \ll$
2-Methylphenol (o-Cresol), mg/kg $<1$
2-Nitroaniline, mg/kg $\quad<1$
2-Nitrophenol, mg/kg $\quad<1$
3, 3'-Dichlorobenzidine, mg/kg $\quad<2$
3-Nitroaniline, mg/kg $<1$
4-Bromophenylphenylether, mg/kg <1
4-Chloro-3-methylphenol, mg/kg $<1$
4-Chloroaniline, mg/kg $<1$

## --:-:-: <br> BCA

Mr. Branden Born Dames and Moore
221 Main Street, Suite 600
San Francisco, C.A 94105-1917

Project: SEARS.SANRAFAEL

REPORT OF ANALYTICAL RESULTS
Page 2

## LOG NO

SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLES
DATE SAMPLED
02-506-1 2-0'
07 MAR 96
PARAMETER
02-506-1
4-Chlorophenylphenylether, mg/kg <1
4-Methylphenol (p-Cresol), mg/kg <2
4-Nitroaniline, $\mathrm{mg} / \mathrm{kg} \quad<1$
$4-$ Nitrophenol, $\mathrm{mg} / \mathrm{kg}<2$
Acenaphthene, mg/kg <1
Acenaphthylene, mg/kg <1
Aniline, $\mathrm{mg} / \mathrm{kg} \quad<1$
Anthracene, mg/kg <1
Benzidine, mg/kg <20
Benzo(a)anthracene, mg/kg <1
Benzo(a)pyrene, mg/kg <1
Benzo(b)fluoranthene, $\mathrm{mg} / \mathrm{kg}<1$
Benzo(g,h,i)perylene, mg/kg <1
Benzo(k)fluoranthene, mg/kg <1
Benzyl Alcohol, mg/kg <2
Benzoic acid, mg/kg $<10$
Butylbenzylphthalate, mg/kg <l
Chrysene, mg/kg <1
Di-n-octylphthalate, $\mathrm{mg} / \mathrm{kg} \quad<1$
Dibenzo(a,h)anthracene, mg/kg <1
Dibenzofuran, mg/kg <1
Dibutylphthalate, $\mathrm{mg} / \mathrm{kg}<1$
Diethylphthalate, $\mathrm{mg} / \mathrm{kg} \quad<1$
Dimethylphthalate, $\mathrm{mg} / \mathrm{kg}<1$
Fluoranthene, mg/kg <1
Fluorene, mg/kg <l
Hexachlorobenzene, mg/kg <1

Received: 07 MAR 96 Mailed : 26 APR 96
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Project: SEARS.SANRAFAEL

REPORT OF ANALYTICAL RESULTS
Page 3
LOG NO SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLES DATE SAMPLED
02-506-1 2-0' ..... 07 MAR 96
PARAMETER ..... 02-506-1
Hexachlorobutadiene, $\mathrm{mg} / \mathrm{kg}$ ..... $<1$
Hexach lorocyc lopentadiene, mg/kg ..... $<2$
Hexach loroethane, mg/kg ..... $<1$
Indeno(1,2,3-c,d)pyrene, mg/kg ..... $<1$
Isophorone, $\mathrm{mg} / \mathrm{kg}$ ..... $<1$
N -Nitrosodimethylamine, $\mathrm{mg} / \mathrm{kg}$ ..... $<1$
N -Nitrosodiphenylamine, mg/kg ..... <1
N -Nitrosodi-n-propylamine, mg/kg ..... $<1$
Nitrobenzene, mg/kg ..... $<1$
Naphthalene, mg/kg ..... $<1$
Phenanthrene, mg/kg ..... $<1$
Phenol, mg/kg ..... <1
Pentachlorophenol, mg/kg ..... $<2$
Pyrene, mg/kg ..... <1
Pyridine, $\mathrm{mg} / \mathrm{kg}$ ..... <2
Bis(2-chloroethoxy)methane, $\mathrm{mg} / \mathrm{kg}$ ..... $<1$
Bis(2-chloroethyl) ether, mg/kg ..... $<1$
Bis(2-chloroisopropyl)ether, mg/kg ..... <1
Bis(2-ethylhexy1)phthalate, $\mathrm{mg} / \mathrm{kg}$ ..... 2.5
Surrogates2-Fluorobiphenyl Reported, mg/kg2.18
2-Fluorobiphenyl Theo., mg/kg ..... 1.67
2-Fluorophenol Reported, mg/kg ..... 2.37
2-Fluorophenol Theoretical, mg/kg ..... 2.50
2,4,6-Tribromophenol Rep., mg/kg ..... 2.14
2,4,6-Tribromophenol Theo., mg/kg ..... 2.50
Nitrobenzene-d5 Reported, mg/kg ..... 1.88
Mr . Branden Born Dames and Moore 221 Main Street, Suite 600 San Francisco, CA 94105-1917

Project: SEARS.SANRAFAEL


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Project: SEARS.SANRAFAEL


Project: SEARS.SANRAFAEL

| REPORT OF ANALYTICAL RESULTS |  | Page 6 |
| :---: | :---: | :---: |
| LOG NO SAMPLE DESCRIPTION, NO |  | DATE SAMPLED |
| 02-506-1 2-0' |  | 07 MAR 96 |
| PARAMETER | 02-506-1 |  |
| Vol.Pri.Poll. (8240) |  |  |
| Date Analyzed | 03/13/96 |  |
| Dilution Factor, Times | 1 |  |
| 1,1,1-Trichloroethane, mg/kg | $<0.005$ |  |
| 1,1,2,2-Tetrachloroethane, mg/kg | $<0.005$ |  |
| 1,1,2-Trichloroethane, mg/kg | $<0.005$ |  |
| 1,1-Dichloroethane, mg/kg | $<0.005$ |  |
| 1,1-Dichloroethene, $\mathrm{mg} / \mathrm{kg}$ | <0.005 |  |
| 1,2-Dichloroethane, mg/kg | <0.005 |  |
| 1,2-Dichlorobenzene, mg/kg | <0.005 |  |
| 1,2-Dich loropropane, mg/kg | <0.005 |  |
| 1,3-Dichlorobenzene, mg/kg | $<0.005$ |  |
| 1,4-Dichlorobenzene, mg/kg | <0.005 |  |
| 2-Chloroethylvinylether, mg/kg | <0.005 |  |
| 2-Hexanone, mg/kg | <0.0.3 |  |
| Acetone, mg/kg | <0.1 |  |
| Acrolein, mg/kg | <0.3 |  |
| Acrylonitrile, mg/kg | <0.3 |  |
| Bromodichloromethane, mg/kg | $<0.005$ |  |
| Bromomethane, mg/kg | <0.005 |  |
| Benzene, mg/kg | <0.005 |  |
| Bromoform, mg/kg | <0.005 |  |
| C.hlorobenzene, mg/kg | <0.005 |  |
| Carbon Tetrachloride, mg/kg | <0.005 |  |
| Chloroethane, mg/kg | <0.005 |  |
| Ch loroform, mg/kg | <0.005 |  |
| Chloromethane, mg/kg | <0.005 |  |

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Project: SEARS.SANRAFAEL
PARAMETER 02-506-1
Carbon Disulfide, mg/kg ..... <0.01
Dibromoch loromethane, mg/kg ..... $<0.005$
Ethylbenzene, mg/kg ..... $<0.005$
Freon 113, mg/kg ..... $<0.01$Methyl ethyl ketone, mg/kg$<0.03$
Methyl isobutyl ketone, $\mathrm{mg} / \mathrm{kg}$ ..... $<0.03$
Methylene chloride, mg/kg ..... $<0.005$
Styrene, mg/kg ..... $<0.005$Trichloroethene, $\mathrm{mg} / \mathrm{kg}$$<0.005$
Trichlorofluoromethane, $\mathrm{mg} / \mathrm{kg}$ ..... $<0.005$Toluene, mg/kg$<0.005$
Tetrachloroethene, $\mathrm{mg} / \mathrm{kg}$ ..... $<0.005$
Vinyl acetate, mg/kg ..... $<0.05$
Vinyl chloride, mg/kg ..... $<0.005$ ..... $<0.005$
Total Xylene Isomers, mg/kg ..... $<0.02$
cis-1,2-Dichloroethene, mg/kg ..... $<0.005$
cis-1,3-Dichloropropene, $\mathrm{mg} / \mathrm{kg}$ ..... $<0.005$ ..... $<0.005$
trans-1,2-Dichloroethene, $\mathrm{mg} / \mathrm{kg}$
$<0.005$
trans-1,3-Dichloropropene, $\mathrm{mg} / \mathrm{kg}$ ..... --Surrogates **
1,2-Dichloroethane-d4 Rep., mg/kg ..... 0.0488
1,2-Dichloroethane-d4 Theo., mg/kg ..... 0.0500
4-Bromofluorobenzene Rep., mg/kg ..... 0.0475
4 -Bromofluorobenzene Theo., mg/kg
0.0478
Toluene-d8 Reported, mg/kg ..... 0.0500

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Project: SEARS.SANRAFAEL

| REPORT OF ANALYTICAL RESULTS |  |  |  | DATE SAMPLED |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| LOG NO SAMPLE DESCRIPTION, NON | NON-AQUEOU | SAMPLES |  |  |  |
| 02-506-2 3-0' |  |  |  |  | 07 MAR 96 |
| 02-506-3 1-0' |  |  |  |  | 07 MAR 96 |
| 02-506-4 3-7' |  |  |  |  | 07 MAR 96 |
| 02-506-5 1-7' |  |  |  |  | 07 MAR 96 |
| 02-506-6 3-3' |  |  |  |  | 07 MAR 96 |
| PARAMETER 02 | 02-506-2 | 02-506-3 | 02-506-4 | 02-506-5 | 02-506-6 |
| Diesel/Hydraulic 0 il (8015M) |  |  |  |  |  |
| Date Analyzed 03/07 | 03/07/96 | 03/07/96 | 03/07/96 | 03/07/96 | 03/07/96 |
| Date Extracted 03/07 | 03/07/96 | 03/07/96 | 03/07/96 | 03/07/96 | 03/07/96 |
| Dilution Factor, Times | 10 | 1 | 1 | 1 | 1 |
| Carbon Range, . C23 | C23-C40 | C23-C.40 | C23-C40 | C23-C40 | C23-C40 |
| Hydraulic 0il, mg/kg | 11000 | 87 | 830 | 320 | 43 |
| Carbon Range, . | C13-C22 | C13-C22 | C13-C22 | C13-C22 | C13-C22 |
| Diesel, mg/kg | <200 | <20 | <20 | <20 | <20 |
| Other Diesel/Hydraulic 0il (8015M) | 5M) | --- | --- | --- | --- |
| Surrogates ** |  |  |  |  |  |
| Naphthalene Reported, mg/kg | 50.2 | 50.4 | 60.6 | 59.3 | 55.9 |
| Naphthalene Theoretical, mg/kg | 50.0 | 50.0 | 50.0 | 50.0 | 50.0 |

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Project: SEARS.SANRAFAEL

| REPORT OF ANALYTICAL RESULTS |  |  |  | DATE SAMPLED |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| LOG NO SAMPLE DESCRIPTION, | NON-AQUEO | SAMPLES |  |  |  |
| 02-506-2 3-0' |  |  |  |  | 07 MAR 96 |
| 02-506-3 1-0' |  |  |  |  | 07 MAR 96 |
| 02-506-4 3-7' |  |  |  |  | 07 MAR 96 |
| 02-506-5 1-7' |  |  |  |  | 07 MAR 96 |
| 02-506-6 3-3' |  |  |  |  | 07 MAR 96 |
| PARAMETER | 02-506-2 | 02-506-3 | 02-506-4 | 02-506-5 | 02-506-6 |
| Gasoline (8015M) |  |  |  |  |  |
| Date Analyzed | 03/07/96 | 03/07/96 | 03/07/96 | 03/07/96 | 03/07/96 |
| Date Extracted | 03/07/96 | 03/07/96 | 03/07/96 | 03/07/96 | 03/07/96 |
| Dilution Factor, Times | 10 | 1 | 1 | 1 | 1 |
| Gasoline, mg/kg | <200 | <20 | <20 | $<20$ | $<20$ |
| Carbon Range, | C4mC12 | C.4-C.12 | C.4-C12 | C4-C12 | C.4--C12 |
| Other Gasoline (8015M) | --- | ---- | --- | -m. | --- |
| Surrogates ** |  |  |  |  |  |
| Naphthalene Reported, mg/kg | 62.9 | 67.8 | 76.8 | 77.8 | 75.5 |
| Naphthalene Theoretical, mg/kg | 50.0 | 50.0 | 50.0 | 50.0 | 50.0 |

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221 Main Street, Suite 600
San Francisco, CA 94105-1917
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Project: SEARS.SANRAFAEL

| REPORT OF ANALYTICAL RESULTS |  |  | Page 10 |
| :---: | :---: | :---: | :---: |
| LOG NO SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLES |  |  | DATE SAMPLED |
| 02-506-7 2-7' |  |  | 07 MAR 96 |
| 02-506-8 2-3' |  |  | 07 MAR 96 |
| PARAMETER | 02-506-7 | 02-506-8 |  |
| Diesel/Hydraulic 011 (8015M) |  |  |  |
| Date Analyzed | 03/07/96 | 03/07/96 |  |
| Date Extracted | 03/07/96 | 03/07/96 |  |
| Dilution Factor, Times | 1 |  | 1 |
| Carbon Range, | C23-C40 | C23-C.40 |  |
| Hydraulic 0il, mg/kg | 220 | 270 |  |
| Carbon Range, . | C13-C22 | C13-C22 |  |
| Diesel, mg/kg | <20 | <20 |  |
| Other Diese1/Hydraulic 0il (8015M) | --- |  |  |
| Surrogates ** |  |  |  |
| Naphtha lene Reported, mg/kg | 56.4 | 58.4 |  |
| Naphthalene Theoretical, mg/kg | 50.0 | 50.0 |  |
| Gasoline (8015M) |  |  |  |
| Date Analyzed | 03/07/96 | 03/07/96 |  |
| Date Extracted | 03/07/96 | 03/07/96 |  |
| Dilution Factor, Times | 1 | 1 |  |
| Gasoline, mg/kg | <20 | <20 |  |
| Carbon Range, . | C4-C12 | C4-C12 |  |
| Other Gasoline (8015M) | --. | --- |  |
| Surrogates ** |  |  |  |
| Naphtha lene Reported, mg/kg | 69.5 | 73.3 |  |
| Naphthalene Theoretical, mg/kg | 50.0 | 50.0 |  |

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Project: SEARS.SANRAFAEL


Dick Swenson, Laboratory Director

The analytical results within this report relate only to the specific cocupounds and samples investigated and may not necessarily reflect other apparently similar material from the same or a similar location.

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ORDER PLACED FOR C.LIENT: Dames and Moore 9602506 :
BC ANALYTICAL : GLEN LAB : 10:43:59 06 MAY 1996 - P. 1 :

| MPLES... | SAMPLE DESCRIPTION.. | DETERM. | DATE...... METHOD ANALYZED | EQUIP. | BATC.H. . | ID.NO |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ;02506*1 | $2-0^{\prime}$ | 8270.HSL | 03.12 .968270 | 537-11 | 9645 | 6750 |
|  |  | 8080. PC. | 03.12.96 8080 | 536-26 | 9640 | 7616 |
|  |  | FUEL.TOT.OIL | 03.07.96 8015M | 516-07 | 96.3008 | 8171 |
|  |  | FUEL.TOT.GAS | 03.07.96 8015M | 516-07 | 963008 | 8171 |
|  |  | 8240.HSL | 03.13.96 8240 | 537-01 | 9650187 | 8659 |
| 9602506*2 | 3-0' | FUEL.TOT.OIL | 03.07.96 8015M | 516-07 | 963008 | 8171 |
|  |  | FUEL.TOT.GAS | 03.07.96 8015M | 516-07 | 963008 | 8171 |
| ;02506*3 | 1-0' | FUEL.TOT.0IL | 03.07.96 8015M | 516-07 | 963008 | 8171 |
|  |  | FUEL.TOT.GAS | 03.07.96 8015M | 516-07 | 963008 | 8171 |
| 9602506*4 | 3-71 | FUEL.TOT.OIL | 03.07.96 8015M | 516-07 | 963008 | 8171 |
|  |  | FUEL.TOT.GAS | 03.07.96 8015M | 516-07 | 96.3008 | 8171 |
| :02506*5 | 1-7' | FUEL.TOT.OIL | 03.07.96 8015M | 516-07 | 963008 | 8171 |
|  |  | FUEL.TOT.GAS | 03.07.96 8015M | 516-07 | 963008 | 8171 |
| 「502506*6 | 3-3' | FUEL.TOT.OIL | 03.07.96 8015M | 516-07 | 963008 | 8171 |
|  |  | FUEL.TOT.GAS | 03.07.96 8015M | 516-07 | 963008 | 8171 |
| ¢602506*7 | 2-7 | FUEL.TOT.0IL | 03.07.96 8015M | 516-07 | 96.3008 | 8171 |
|  |  | FUEL. TOT.GAS | 03.07.96 8015M | 516-07 | 963008 | 8171 |
| j02506*8 | $2-31$ | FUEL.TOT.0IL | 03.07 .968015 M | 516-07 | 963008 | 8171 |
|  |  | FUEL.TOT.GAS | 03.07.96 8015M | 516-07 | 96.3008 | 8171 |

$$
\begin{aligned}
\text { Notes: Equipment }= & \begin{array}{l}
\text { BC Analytical identification number for a } \\
\text { particular piece of analytical equipment. }
\end{array} \\
& =\begin{array}{l}
\text { BC Analytical employee identification number of } \\
\text { analyst. }
\end{array}
\end{aligned}
$$

## LABORATORY CONTROL STANDARDS FOR BATCHES WHICH INCLUDE THIS ORDER



## LABORATORY C.ONTROL STANDARDS FOR BATCHES WHICH INCLUDE THIS ORDER

RAMETER
Di-n-octylphthalate
Dibenzo(a,h)anthracene
Dibenzofuran
Dibutylphtha late
Diethylphthalate
Dimethylphthalate
Fluoranthene
Fluorene
Hexach lorobenzene
Hexach lorobutadiene
Hexachlorocyc lopentadiene
Hexachloroethane
Indeno(1,2,3-c, d)pyrene
Isophorone
N -Nitrosodimethylamine
N -Nitrosodiphenylamine
N -Nitrosodi-n-propylamine
Nitrobenzene
Naphthalene
Phenanthrene
Phenol
Pentach lorophenol
Pyrene
Bis(2-chloroethoxy)methane Bis(2-chloroethyl) ether Bis(2-chloroisopropyl)ether Bis(2-ethylhexyl)phthalate
2-Fluorobiphenyl Reported
2-Fluorobipheny1 Theo.
2-Fluorophenol Reported
2-Fluorophenol Theoretical
2,4,6-Tribromophenol Rep.
2,4,6-Tribromopheno 1 Theo.
Nitrobenzene-d5 Reported
Nitrobenzene-d5 Theoretical
Phenol-d5 Reported
Phenol-d5 Theoretical
Terpheny1-d14 Reported
Terphenyl-d14 Theoretical
Semi-volatiles
Date Analyzed
Date Extracted
1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
1,2-Dipheny Thydrazine
$\begin{array}{cl}\text { DATE } & \text { BATCH } \\ \text { ANALYZED } & \text { NUMBER } \\ 03.12 .96 & 9645\end{array}$
RESULT
2.92
2.43
2.42
2.71
2.46
2.57
2.47
2.67
2.76
2.89
3.98
3.02
2.31
2.65
3.97
1.73
03.12.96 9645
03.12 .969645
03.12 .969645
03.12.96 9645
03.12.96 9645
03.12.96 9645
03.12.96 9645
03.12.96 9645
03.12 .969645
03.12 .969645
03.12.96 9645
03.12 .969645
$03.12 .969645 \quad 1.82$
$03.12 .969645 \quad 1.67$
03.12 .969645
03.12 .969645
03.12.96 9645
03.12 .969645
03.12 .969645
03.12 .969645
03.12 .969645
03.12 .969645
03.12 .969645
03.12.96 9645

C6031258*
03.12 .969645
03.12 .969645
03.12 .969645
03.12 .969645
03.12.96 9645
2.79
2.89
2.37
2.54
1.68
2.23
2.86
2.22
3.27
2.92
.92
2.57
2.50
2.91
2.50
1.78
1.67
3.05
2.50
1.63
1.67

03/12/96
03/12/96 03/12/96
$\begin{array}{lll}2.75 & 3.33 & \mathrm{mg} / \mathrm{kg}\end{array}$
$3.16 \quad 3.33 \quad \mathrm{mg} / \mathrm{kg}$
$2.97 \quad 3.33 \mathrm{mg} / \mathrm{kg}$

PERCENT
RECOVERY
88
73
73
81
74
77
74
80
83
87
120
91
69
80
119
52
84
87
71
76
50
67
86
67
98
88
88
109
100
103 Q
100
116
100
107
100
122 Q
100
98
100

N/A
N/A
83
95
89

BC. ANALYTICAL
ORDER QC REPORT FOR G9602506

## LABORATORY CONTROL STANDARDS FOR BATCHES WHICH INCLUDE THIS ORDER

ARAMETER<br>1,3-Dichlorobenzene<br>1,4-Dichlorobenzene<br>2,4,5-Trichlorophenol<br>2,4,6-Trichlorophenol<br>2,4-Dichlorophenol<br>2,4-Dimethylphenol<br>2,4-Dinitrophenol<br>2,4-Dinitrotoluene<br>2,6-Dinitrotoluene<br>2-Chloronaphthalene<br>2-Chlorophenol<br>2-Methyl-4,6-dinitrophenol<br>2-Methylnaphtha lene<br>2-Methylphenol (o-Cresol)<br>2-Nitroaniline<br>2-Nitrophenol<br>3,3'-Dichlorobenzidine<br>3-Nitroaniline<br>4-Bromopheny lpheny lether<br>4-Ch loro-3-methylphenol<br>4-Chloroaniline<br>4-Chlorophenylpheny lether<br>4-Methylphenol (p-Cresol)<br>4-Nitroaniline<br>4-Nitrophenol<br>Acenaphthene<br>Acenaphthylene<br>Aniline<br>Anthracene<br>Benzidine<br>Benzo(a)anthracene<br>Benzo(a)pyrene<br>Benzo(b)fluoranthene<br>Benzo( $g, h, i$ ) perylene<br>Benzo(k)fluoranthene<br>Benzyl Alcohol<br>Benzoic acid<br>Butylbenzylphthalate<br>Chrysene<br>Di-n-octylphthalate<br>Dibenzo(a,h)anthracene<br>Dibenzofuran<br>Dibutylphthalate<br>Diethylphthalate<br>Dimethylphthalate

| DATE | BATCH | LC | LT |  | PERCENT |
| :---: | :---: | :---: | :---: | :---: | :---: |
| ANALYZED | NUMBER | RESULT | RESULT | UNIT | RECOVERY |
| 03.12.96 | 9645 | 2.81 | 3.33 | $\mathrm{mg} / \mathrm{kg}$ | 84 |
| 03.12 .96 | 9645 | 2.78 | 3.33 | $\mathrm{mg} / \mathrm{kg}$ | 83 |
| 03.12 .96 | 9645 | 3.36 | 3.33 | $\mathrm{mg} / \mathrm{kg}$ | 101 |
| 03.12.96 | 9645 | 2.59 | 3.33 | $\mathrm{mg} / \mathrm{kg}$ | 78 |
| 03.12.96 | 9645 | 2.33 | 3.33 | $\mathrm{mg} / \mathrm{kg}$ | 70 |
| 03.12 .96 | 9645 | 2.25 | 3.33 | $\mathrm{mg} / \mathrm{kg}$ | 68 |
| 03.12 .96 | 9645 | 2.24 | 3.33 | $\mathrm{mg} / \mathrm{kg}$ | 67 |
| 03.12 .96 | 9645 | 2.95 | 3.33 | $\mathrm{mg} / \mathrm{kg}$ | 89 |
| 03.12 .96 | 9645 | 2.72 | 3.33 | $\mathrm{mg} / \mathrm{kg}$ | 82 |
| 03.12.96 | 9645 | 2.45 | 3.33 | $\mathrm{mg} / \mathrm{kg}$ | 74 |
| 03.12 .96 | 9645 | 2.50 | 3.33 | $\mathrm{mg} / \mathrm{kg}$ | 75 |
| 03.12 .96 | 9645 | 1.99 | 3.33 | $\mathrm{mg} / \mathrm{kg}$ | 60 |
| 03.12 .96 | 9645 | 2.29 | 3.33 | $\mathrm{mg} / \mathrm{kg}$ | 69 |
| 03.12.96 | 9645 | 2.77 | 3.33 | $\mathrm{mg} / \mathrm{kg}$ | 8.3 |
| 03.12 .96 | 9645 | 2.45 | 3.33 | $\mathrm{mg} / \mathrm{kg}$ | 74 |
| 03.12 .96 | 9645 | 2.44 | 3.33 | $\mathrm{mg} / \mathrm{kg}$ | 73 |
| 03.12 .96 | 9645 | 2.47 | 6.67 | $\mathrm{mg} / \mathrm{kg}$ | 37 |
| 03.12 .96 | 9645 | 2.24 | 3.33 | $\mathrm{mg} / \mathrm{kg}$ | 67 |
| 03.12 .96 | 9645 | 2.58 | 3.33 | $\mathrm{mg} / \mathrm{kg}$ | 77 |
| 03.12 .96 | 9645 | 2.55 | 3.33 | $\mathrm{mg} / \mathrm{kg}$ | 77 |
| 03.12 .96 | 9645 | 2.35 | 3.33 | $\mathrm{mg} / \mathrm{kg}$ | 71 |
| 03.12 .96 | 9645 | 2.94 | 3.33 | $\mathrm{mg} / \mathrm{kg}$ | 88 |
| 03.12 .96 | 9645 | 2.61 | 3.33 | $\mathrm{mg} / \mathrm{kg}$ | 78 |
| 03.12 .96 | 9645 | 2.22 | 3.33 | $\mathrm{mg} / \mathrm{kg}$ | 67 |
| 03.12 .96 | 9645 | 2.47 | 3.33 | $\mathrm{mg} / \mathrm{kg}$ | 74 |
| 03.12 .96 | 9645 | 2.84 | 3.33 | $\mathrm{mg} / \mathrm{kg}$ | 85 |
| 03.12 .96 | 9645 | 2.65 | 3.33 | $\mathrm{mg} / \mathrm{kg}$ | 80 |
| 03.12 .96 | 9645 | 1.63 | 3.33 | $\mathrm{mg} / \mathrm{kg}$ | 49 |
| 03.12.96 | 9645 | 2.41 | 3.33 | $\mathrm{mg} / \mathrm{kg}$ | 72 |
| 03.12 .96 | 9645 | 0 | 6.67 | $\mathrm{mg} / \mathrm{kg}$ | 0 Q |
| 03.12.96 | 9645 | 2.65 | 3.33 | $\mathrm{mg} / \mathrm{kg}$ | 80 |
| 03.12 .96 | 9645 | 2.54 | 3.33 | $\mathrm{mg} / \mathrm{kg}$ | 76 |
| 03.12 .96 | 9645 | 2.11 | 3.33 | $\mathrm{mg} / \mathrm{kg}$ | 63 |
| 03.12 .96 | 9645 | 2.55 | 3.33 | $\mathrm{mg} / \mathrm{kg}$ | 77 |
| 03.12 .96 | 9645 | 2.81 | 3.33 | $\mathrm{mg} / \mathrm{kg}$ | 84 |
| 03.12 .96 | 9645 | 2.48 | 3.33 | $\mathrm{mg} / \mathrm{kg}$ | 74 |
| 03.12.96 | 9645 | 3.13 | 6.67 | $\mathrm{mg} / \mathrm{kg}$ | 47 |
| 03.12 .96 | 9645 | 3.37 | 3.33 | $\mathrm{mg} / \mathrm{kg}$ | 101 |
| 03.12 .96 | 9645 | 2.67 | 3.33 | $\mathrm{mg} / \mathrm{kg}$ | 80 |
| 03.12 .96 | 9645 | 2.99 | 3.33 | $\mathrm{mg} / \mathrm{kg}$ | 90 |
| 03.12.96 | 9645 | 2.48 | 3.33 | $\mathrm{mg} / \mathrm{kg}$ | 74 |
| 03.12.96 | 9645 | 2.48 | 3.33 | $\mathrm{mg} / \mathrm{kg}$ | 74 |
| 03.12.96 | 9645 | 2.79 | 3.33 | $\mathrm{mg} / \mathrm{kg}$ | 84 |
| 03.12 .96 | 9645 | 2.54 | 3.33 | $\mathrm{mg} / \mathrm{kg}$ | 76 |
| 03.12.96 | 9645 | 2.67 | 3.33 | $\mathrm{mg} / \mathrm{kg}$ | 80 |

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ORDER QC. REPORT FOR G9602506
ITE REPORTED : 05/06/96
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LABORATORY CONTROL STANDARDS FOR BATCHES WHICH INCLUDE THIS ORDER

|  | DATE | BATCH | LC | LT |  | PERCENT |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| IRAMETER | ANALYZED | NUMBER | RESULT | RESULT | UNIT | RECOVERY |
| Fluoranthene | 03.12 .96 | 9645 | 2.52 | 3.33 | $\mathrm{mg} / \mathrm{kg}$ | 76 |
| Fluorene | 03.12.96 | 9645 | 2.71 | 3.33 | $\mathrm{mg} / \mathrm{kg}$ | 81 |
| Hexach lorobenzene | 03.12.96 | 9645 | 2.74 | 3.33 | $\mathrm{mg} / \mathrm{kg}$ | 82 |
| Hexachlorobutadiene | 03.12.96 | 9645 | 2.90 | 3.33 | $\mathrm{mg} / \mathrm{kg}$ | 87 |
| Hexachlorocyc lopentadiene | 03.12.96 | 9645 | 4.07 | 3.33 | $\mathrm{mg} / \mathrm{kg}$ | 122 |
| Hexachloroethane | 03.12 .96 | 9645 | 3.14 | 3.33 | $\mathrm{mg} / \mathrm{kg}$ | 94 |
| Indeno(1,2,3-c, d) pyrene | 03.12.96 | 9645 | 2.63 | 3.33 | $\mathrm{mg} / \mathrm{kg}$ | 79 |
| Isophorone | 03.12.96 | 9645 | 2.66 | 3.33 | $\mathrm{mg} / \mathrm{kg}$ | 80 |
| N -Nitrosodimethylamine | 03.12.96 | 9645 | 4.10 | 3.33 | $\mathrm{mg} / \mathrm{kg}$ | 123 |
| N -Nitrosodiphenylamine | 03.12.96 | 9645 | 1.76 | 3.33 | $\mathrm{mg} / \mathrm{kg}$ | 5.3 |
| N -Nitrosodi-n-propylamine | 03.12.96 | 9645 | 3.01 | 3.33 | $\mathrm{mg} / \mathrm{kg}$ | 90 |
| Nitrobenzene | 03.12 .96 | 9645 | 2.93 | 3.33 | $\mathrm{mg} / \mathrm{kg}$ | 88 |
| Naphthalene | 03.12.96 | 9645 | 2.40 | 3.33 | $\mathrm{mg} / \mathrm{kg}$ | 72 |
| Phenanthrene | 03.12.96 | 9645 | 2.56 | 3.33 | $\mathrm{mg} / \mathrm{kg}$ | 77 |
| Phenol | 03.12.96 | 9645 | 2.44 | 3.33 | $\mathrm{mg} / \mathrm{kg}$ | 73 |
| Pentachlorophenol | 03.12.96 | 9645 | 2.19 | 3.33 | $\mathrm{mg} / \mathrm{kg}$ | 66 |
| Pyrene | 03.12 .96 | 9645 | 2.99 | 3.33 | $\mathrm{mg} / \mathrm{kg}$ | 90 |
| Bis(2-chloroethoxy)methane | 03.12 .96 | 9645 | 2.28 | 3.33 | $\mathrm{mg} / \mathrm{kg}$ | 68 |
| Bis(2-chloroethyl) ether | 03.12.96 | 9645 | 3.03 | 3.33 | $\mathrm{mg} / \mathrm{kg}$ | 91 |
| Bis(2-chloroisopropy 1) ether | 03.12.96 | 9645 | 2.91 | 3.33 | $\mathrm{mg} / \mathrm{kg}$ | 87 |
| Bis(2-ethylhexy1) phthalate | 03.12 .96 | 9645 | 2.96 | 3.33 | $\mathrm{mg} / \mathrm{kg}$ | 89 |
| 2-Fluorobiphenyl Reported | 03.12 .96 | 9645 | 1.76 | 1.67 | $\mathrm{mg} / \mathrm{kg}$ | 105 |
| 2-Fluorobiphenyl Theo. | 03.12.96 | 9645 | 1.67 | 1.67 | $\mathrm{mg} / \mathrm{kg}$ | 100 |
| 2-Fluorophenol Reported | 03.12.96 | 9645 | 2.56 | 2.50 | $\mathrm{mg} / \mathrm{kg}$ | 102 Q |
| 2-Fluorophenol Theoretical | 03.12 .96 | 9645 | 2.50 | 2.50 | $\mathrm{mg} / \mathrm{kg}$ | 100 |
| 2,4,6-Tribromophenol Rep. | 03.12 .96 | 9645 | 2.66 | 2.50 | $\mathrm{mg} / \mathrm{kg}$ | 106 |
| 2,4,6-Tribromophenol Theo. | 03.12.96 | 9645 | 2.50 | 2.50 | $\mathrm{mg} / \mathrm{kg}$ | 100 |
| Nitrobenzene-d5 Reported | 03.12.96 | 9645 | 1.74 | 1.67 | $\mathrm{mg} / \mathrm{kg}$ | 104 |
| Nitrobenzene-d5 Theoretical | 03.12 .96 | 9645 | 1.67 | 1.67 | $\mathrm{mg} / \mathrm{kg}$ | 100 |
| Phenol-d5 Reported | 03.12 .96 | 9645 | 2.99 | 2.50 | $\mathrm{mg} / \mathrm{kg}$ | 120 Q |
| Phenol-d5 Theoretical | 03.12.96 | 9645 | 2.50 | 2.50 | $\mathrm{mg} / \mathrm{kg}$ | 100 |
| Terphenyl-d14 Reported | 03.12.96 | 9645 | 1.61 | 1.67 | $\mathrm{mg} / \mathrm{kg}$ | 96 |
| Terphenyl-d14 Theoretical | 03.12.96 | 9645 | 1.67 | 1.67 | $\mathrm{mg} / \mathrm{kg}$ | 100 |
| PCBs C603125 |  |  |  |  |  |  |
| Date Analyzed | 03.13.96 | 9640 | 03/13/96 | 03/13/96 | Date | N/A |
| Date Extracted | 03.13.96 | 9640 | 03/12/96 | 03/12/96 | Date | N/A |
| Aroclor 1260 | 03.13.96 | 9640 | 0.291 | 0.333 | $\mathrm{mg} / \mathrm{kg}$ | 87 |
| Decachlorobiphenyl Reported | 03.13 .96 | 9640 | 0.0095 | 0.0083 | $\mathrm{mg} / \mathrm{kg}$ | 114 |
| Decachlorobiphenyl Theoretical | 03.13.96 | 9640 | 0.0083 | 0.0083 | $\mathrm{mg} / \mathrm{kg}$ | 100 |
| Tetrachloro-meta-xylene Rpt. | 03.13 .96 | 9640 | 0.0077 | 0.0083 | $\mathrm{mg} / \mathrm{kg}$ | 93 |
| Tetrachloro-meta-xylene Theor | 03.13.96 | 9640 | 0.0083 | 0.0083 | $\mathrm{mg} / \mathrm{kg}$ | 100 |
| 4. PCBs C6031253*1 |  |  |  |  |  |  |
| Date Analyzed | 03.13 .96 | 9640 | 03/13/96 | 03/13/96 | Date | N/A |
| Date Extracted | 03.13.96 | 9640 | 03/12/96 | 03/12/96 | Date | N/A |
| Aroclor 1260 | 03.13.96 | 9640 | 0.260 | 0.333 | $\mathrm{mg} / \mathrm{kg}$ | 78 |

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## LABORATORY CONTROL STANDARDS <br> FOR BATCHES WHICH INCLUDE THIS ORDER

|  | DATE | BATCH | LC | LT |  | PERCENT |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| - TRAMETER | ANALYZED | NUMBER | RESULT | RESULT | UNIT | RECOVERY |
| Decachlorobipheny 1 Reported | 03.13.96 | 9640 | 0.0102 | 0.0083 | $\mathrm{mg} / \mathrm{kg}$ | 123 |
| Decachlorobiphenyl Theoretical | 03.13.96 | 9640 | 0.0083 | 0.0083 | $\mathrm{mg} / \mathrm{kg}$ | 100 |
| Tetrachloro-meta-xylene Rpt. | 03.13 .96 | 9640 | 0.0090 | 0.0083 | $\mathrm{mg} / \mathrm{kg}$ | 108 |
| Tetrachloro-meta-xylene Theor. | 03.13.96 | 9640 | 0.0083 | 0.0083 | $\mathrm{mg} / \mathrm{kg}$ | 100 |
| o. Gasoline C6031254*1 |  |  |  |  |  |  |
| Date Analyzed | 03.07.96 | 963008 | 03/07/96 | 03/07/96 | Date | N/A |
| Date Extracted | 03.07.96 | 963008 | 03/07/96 | 03/07/96 | Date | N/A |
| Gasoline | 03.07.96 | 963008 | 291 | 250 | $\mathrm{mg} / \mathrm{kg}$ | 116 |
| Naphthalene Reported | 03.07.96 | 963008 | 67.6 | 50.0 | $\mathrm{mg} / \mathrm{kg}$ | 135 Q |
| Naphthalene Theoretical | 03.07.96 | 963008 | 50.0 | 50.0 | $\mathrm{mg} / \mathrm{kg}$ | 100 |
| . Diesel/Hydraulic 0il C6031255*1 |  |  |  |  |  |  |
| Date Analyzed | 03.07 .96 | 963008 | 03/07/96 | 03/07/96 | Date | N/A |
| Date Extracted | 03.07.96 | 963008 | 03/07/96 | 03/07/96 | Date | N/A |
| Hydraulic 0il | 03.07.96 | 963008 | 473 | 500 | $\mathrm{mg} / \mathrm{kg}$ | 95 |
| Diesel | 03.07.96 | 963008 | 505 | 500 | $\mathrm{mg} / \mathrm{kg}$ | 101 |
| Naphthalene Reported | 03.07.96 | 963008 | 81.2 | 50.0 | $\mathrm{mg} / \mathrm{kg}$ | 162 Q |
| Naphthalene Theoretical | 03.07.96 | 963008 | 50.0 | 50.0 | $\mathrm{mg} / \mathrm{kg}$ | 100 |
| Vol.Pri.Poll. C6031387 |  |  |  |  |  |  |
| Date Analyzed | 03.14.96 | 9650187 | 03/14/96 | 03/14/96 | Date | N/A |
| 1,1,1-Trichloroethane | 03.14 .96 | 9650187 | 0.0459 | 0.0500 | $\mathrm{mg} / \mathrm{kg}$ | 92 |
| 1,1,2,2-Tetrachloroethane | 03.14 .96 | 9650187 | 0.0438 | 0.0500 | $\mathrm{mg} / \mathrm{kg}$ | 88 |
| 1,1,2-Trichloroethane | 03.14 .96 | 9650187 | 0.0446 | 0.0500 | $\mathrm{mg} / \mathrm{kg}$ | 89 |
| 1,1-Dichloroethane | 03.14 .96 | 9650187 | 0.0414 | 0.0500 | $\mathrm{mg} / \mathrm{kg}$ | 83 |
| 1,1-Dichloroethene | 03.14 .96 | 9650187 | 0.0395 | 0.0500 | $\mathrm{mg} / \mathrm{kg}$ | 79 |
| 1,2-Dichloroethane | 03.14 .96 | 9650187 | 0.0358 | 0.0500 | $\mathrm{mg} / \mathrm{kg}$ | 72 Q |
| 1,2-Dichlorobenzene | 03.14 .96 | 9650187 | 0.0468 | 0.0500 | $\mathrm{mg} / \mathrm{kg}$ | 94 |
| 1,2-Dichloropropane | 03.14 .96 | 9650187 | 0.0404 | 0.0500 | $\mathrm{mg} / \mathrm{kg}$ | 81 |
| 1,3-Dichlorobenzene | 03.14 .96 | 9650187 | 0.0475 | 0.0500 | $\mathrm{mg} / \mathrm{kg}$ | 95 |
| 1,4-Dichlorobenzene | 03.14.96 | 9650187 | 0.0463 | 0.0500 | $\mathrm{mg} / \mathrm{kg}$ | 93 |
| 2-Chloroethylv inylether | 03.14 .96 | 9650187 | 0.0152 | 0.0500 | $\mathrm{mg} / \mathrm{kg}$ | 30 |
| 2-Hexanone | 03.14 .96 | 9650187 | 0.0377 | 0.0500 | $\mathrm{mg} / \mathrm{kg}$ | 75 |
| Acetone | 03.14 .96 | 9650187 | 0.0255 | 0.0500 | $\mathrm{mg} / \mathrm{kg}$ | 51 |
| Acrolein | 03.14 .96 | 9650187 | 0.0818 | 0.500 | $\mathrm{mg} / \mathrm{kg}$ | 16 Q |
| Acry Tonitrile | 03.14 .96 | 9650187 | 0.324 | 0.500 | $\mathrm{mg} / \mathrm{kg}$ | 65 |
| Bromodichloromethane | 03.14 .96 | 9650187 | 0.0463 | 0.0500 | $\mathrm{mg} / \mathrm{kg}$ | 93 |
| Bromomethane | 03.14 .96 | 9650187 | 0.0542 | 0.0500 | $\mathrm{mg} / \mathrm{kg}$ | 108 |
| Benzene | 03.14 .96 | 9650187 | 0.0407 | 0.0500 | $\mathrm{mg} / \mathrm{kg}$ | 81 |
| Bromoform | 03.14 .96 | 9650187 | 0.0433 | 0.0500 | $\mathrm{mg} / \mathrm{kg}$ | 87 |
| Chlorobenzene | 03.14 .96 | 9650187 | 0.0470 | 0.0500 | $\mathrm{mg} / \mathrm{kg}$ | 94 |
| Carbon Tetrachloride | 03.14 .96 | 9650187 | 0.0440 | 0.0500 | $\mathrm{mg} / \mathrm{kg}$ | 88 |
| Chloroethane | 03.14 .96 | 9650187 | 0.0675 | 0.0500 | $\mathrm{mg} / \mathrm{kg}$ | 135 |
| Chloroform | 03.14 .96 | 9650187 | 0.0395 | 0.0500 | $\mathrm{mg} / \mathrm{kg}$ | 79 |
| Chloromethane | 03.14 .96 | 9650187 | 0.0480 | 0.0500 | $\mathrm{mg} / \mathrm{kg}$ | 96 |
| Carbon Disulfide | 03.14 .96 | 9650187 | 0.0388 | 0.0500 | $\mathrm{mg} / \mathrm{kg}$ | 78 |
| Dibromochloromethane | 03.14 .96 | 9650187 | 0.0448 | 0.0500 | $\mathrm{mg} / \mathrm{kg}$ | 90 |

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## LABORATORY CONTROL STANDARDS FOR BATCHES WHICH INCLUDE THIS ORDER

|  | ARAMETER | ANALYZED | NUMBER | RESULT | RESULT | UNIT |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | RECOVERY

LABORATORY CONTROL STANDARDS FOR BATCHES WHICH INCLUDE THIS ORDER

IRAMETER
Carbon Tetrachloride
Chloroethane
Chloroform
Chloromethane
Carbon Disulfide
Dibromoch loromethane
Ethylbenzene
Freon 113
Methyl ethyl ketone
Methyl isobutyl ketone Methylene chloride Styrene
Trichloroethene
Trichlorofluoromethane Toluene
Tetrachloroethene
Vinyl acetate Vinyl chloride Total Xylene Isomers cis-1,2-Dichloroethene cis-1,3-Dichloropropene trans-1,2-Dichloroethene trans-1,3-Dichloropropene 1,2-Dichloroethane-d4 Rep. 1,2-Dichloroethane-d4 Theo. 4-Bromof Tuorobenzene Rep. 4-Bromofluorobenzene Theo. Toluene-d8 Reported Toluene-d8 Theo.

| DATE | BATCH | LC | LT |  | PERCENT |
| :---: | :---: | :---: | :---: | :---: | :---: |
| ANALYZED | NUMBER | RESULT | RESULT | UNIT | RECOVERY |
| 03.13 .96 | 9650187 | 0.0422 | 0.0500 | $\mathrm{mg} / \mathrm{kg}$ | 84 |
| 03.13 .96 | 9650187 | 0.0538 | 0.0500 | $\mathrm{mg} / \mathrm{kg}$ | 108 |
| 03.13 .96 | 9650187 | 0.0373 | 0.0500 | $\mathrm{mg} / \mathrm{kg}$ | 75 |
| 03.13 .96 | 9650187 | 0.0491 | 0.0500 | $\mathrm{mg} / \mathrm{kg}$ | 98 |
| 03.13 .96 | 9650187 | 0.0401 | 0.0500 | $\mathrm{mg} / \mathrm{kg}$ | 80 |
| 03.13 .96 | 9650187 | 0.0476 | 0.0500 | $\mathrm{mg} / \mathrm{kg}$ | 95 |
| 03.13 .96 | 9650187 | 0.0497 | 0.0500 | $\mathrm{mg} / \mathrm{kg}$ | 99 |
| 03.13 .96 | 9650187 | 0.0487 | 0.0500 | $\mathrm{mg} / \mathrm{kg}$ | 97 |
| 03.13 .96 | 9650187 | 0.0366 | 0.0500 | $\mathrm{mg} / \mathrm{kg}$ | 73 |
| 03.13 .96 | 9650187 | 0.0477 | 0.0500 | $\mathrm{mg} / \mathrm{kg}$ | 95 |
| 03.13 .96 | 9650187 | 0.0410 | 0.0500 | $\mathrm{mg} / \mathrm{kg}$ | 82 |
| 03.13 .96 | 9650187 | 0.0476 | 0.0500 | $\mathrm{mg} / \mathrm{kg}$ | 95 |
| 03.13 .96 | 9650187 | 0.0382 | 0.0500 | $\mathrm{mg} / \mathrm{kg}$ | 76 |
| 03.13 .96 | 9650187 | 0.0526 | 0.0500 | $\mathrm{mg} / \mathrm{kg}$ | 105 |
| 03.13 .96 | 9650187 | 0.0484 | 0.0500 | $\mathrm{mg} / \mathrm{kg}$ | 97 |
| 03.13 .96 | 9650187 | 0.0504 | 0.0500 | $\mathrm{mg} / \mathrm{kg}$ | 101 |
| 03.13 .96 | 9650187 | 0.0466 | 0.0500 | $\mathrm{mg} / \mathrm{kg}$ | 93 |
| 03.13 .96 | 9650187 | 0.0471 | 0.0500 | $\mathrm{mg} / \mathrm{kg}$ | 94 |
| 03.13 .96 | 9650187 | 0.149 | 0.150 | $\mathrm{mg} / \mathrm{kg}$ | 99 |
| 03.13 .96 | 9650187 | 0.0419 | 0.0500 | $\mathrm{mg} / \mathrm{kg}$ | 84 |
| 03.13 .96 | 9650187 | 0.0494 | 0.0500 | $\mathrm{mg} / \mathrm{kg}$ | 99 |
| 03.13 .96 | 9650187 | 0.0415 | 0.0500 | $\mathrm{mg} / \mathrm{kg}$ | 83 |
| 03.13 .96 | 9650187 | 0.0489 | 0.0500 | $\mathrm{mg} / \mathrm{kg}$ | 98 |
| 03.13 .96 | 9650187 | 0.0486 | 0.0500 | $\mathrm{mg} / \mathrm{kg}$ | 97 |
| 03.13 .96 | 9650187 | 0.0500 | 0.0500 | $\mathrm{mg} / \mathrm{kg}$ | 100 |
| 03.13 .96 | 9650187 | 0.0473 | 0.0500 | $\mathrm{mg} / \mathrm{kg}$ | 95 |
| 03.13 .96 | 9650187 | 0.0500 | 0.0500 | $\mathrm{mg} / \mathrm{kg}$ | 100 |
| 03.13 .96 | 9650187 | 0.0499 | 0.0500 | $\mathrm{mg} / \mathrm{kg}$ | 100 |
| 03.13 .96 | 9650187 | 0.0500 | 0.0500 | $\mathrm{mg} / \mathrm{kg}$ | 100 |

## ADDITIONAL LCS PRECISION (DUPLICATES) BATCH QC REPORT

| SAMPLE | DATE | BATCH | LC.1 | LC2 |  | RELATIVE |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ${ }^{\text {² }}$ RAMETER NUMBER | ANALYZED | NUMBER | RESULT | RESULT | UNIT | \% DIFF |
| , Semi-volatiles |  |  |  |  |  |  |
| Date Analyzed | 03.12 .96 | 9645 | 03/12/96 | 03/12/96 | Date | $N / A$ |
| Date Extracted | 03.12 .96 | 9645 | 03/12/96 | 03/12/96 | Date | N/A |
| 1,2,4-Trichlorobenzene | 03.12 .96 | 9645 | 2.72 | 2.75 | $\mathrm{mg} / \mathrm{kg}$ | 1 |
| 1,2-Dichlorobenzene | 03.12 .96 | 9645 | 3.09 | 3.16 | $\mathrm{mg} / \mathrm{kg}$ | 2 |
| 1,2-Diphenylhydrazine | 03.12 .96 | 9645 | 3.00 | 2.97 | $\mathrm{mg} / \mathrm{kg}$ | , |
| 1,3-Dichlorobenzene | 03.12 .96 | 9645 | 2.70 | 2.81 | $\mathrm{mg} / \mathrm{kg}$ | 4 |
| 1,4-Dichlorobenzene | 03.12 .96 | 9645 | 2.70 | 2.78 | $\mathrm{mg} / \mathrm{kg}$ | 3 |
| 2,4,5-Trichlorophenol | 03.12 .96 | 9645 | 3.39 | 3.36 | $\mathrm{mg} / \mathrm{kg}$ | 1 |
| 2,4,6-Trichlorophenol | 03.12.96 | 9645 | 2.69 | 2.59 | $\mathrm{mg} / \mathrm{kg}$ | 4 |
| 2,4-Dichlorophenol | 03.12.96 | 9645 | 2.38 | 2.33 | $\mathrm{mg} / \mathrm{kg}$ | 2 |
| 2,4-Dimethylphenol | 03.12 .96 | 9645 | 2.32 | 2.25 | $\mathrm{mg} / \mathrm{kg}$ | 3 |
| 2,4-Dinitrophenol | 03.12 .96 | 9645 | 2.22 | 2.24 | $\mathrm{mg} / \mathrm{kg}$ | 1 |
| 2,4-Dinitrotoluene | 03.12 .96 | 9645 | 2.80 | 2.95 | $\mathrm{mg} / \mathrm{kg}$ | 5 |
| 2,6-Dinitrotoluene | 03.12 .96 | 9645 | 2.61 | 2.72 | $\mathrm{mg} / \mathrm{kg}$ | 4 |
| 2-Chloronaphtha lene | 03.12 .96 | 9645 | 2.43 | 2.45 | $\mathrm{mg} / \mathrm{kg}$ | 1 |
| 2-Chlorophenol | 03.12.96 | 9645 | 2.51 | 2.50 | $\mathrm{mg} / \mathrm{kg}$ | 0 |
| 2-Methy 1-4,6-dinitrophenol | 03.12 .96 | 9645 | 1.96 | 1.99 | $\mathrm{mg} / \mathrm{kg}$ | 2 |
| 2-Methylnaphthalene | 03.12 .96 | 9645 | 2.27 | 2.29 | $\mathrm{mg} / \mathrm{kg}$ | 1 |
| 2-Methylphenol (o-Cresol) | 03.12.96 | 9645 | 2.80 | 2.77 | $\mathrm{mg} / \mathrm{kg}$ | 1 |
| 2-Nitroaniline | 03.12 .96 | 9645 | 2.42 | 2.45 | $\mathrm{mg} / \mathrm{kg}$ | 1 |
| 2-Nitrophenol | 03.12 .96 | 9645 | 2.55 | 2.44 | $\mathrm{mg} / \mathrm{kg}$ | 4 |
| 3,3'-Dichlorobenzidine | 03.12 .96 | 9645 | 2.58 | 2.47 | $\mathrm{mg} / \mathrm{kg}$ |  |
| 3-Nitroaniline | 03.12 .96 | 9645 | 2.18 | 2.24 | $\mathrm{mg} / \mathrm{kg}$ | 3 |
| 4-Bromopheny lpheny lether | 03.12 .96 | 9645 | 2.55 | 2.58 | $\mathrm{mg} / \mathrm{kg}$ | 1 |
| 4-Chloro-3-methylphenol | 03.12 .96 | 9645 | 2.59 | 2.55 | $\mathrm{mg} / \mathrm{kg}$ | 2 |
| 4-Chloroaniline | 03.12 .96 | 9645 | 2.37 | 2.35 | $\mathrm{mg} / \mathrm{kg}$ | 1 |
| 4-Chloropheny lphenylether | 03.12 .96 | 9645 | 2.61 | 2.94 | $\mathrm{mg} / \mathrm{kg}$ | 12 |
| 4-Methylphenol (p-Cresol) | 03.12 .96 | 9645 | 2.63 | 2.61 | $\mathrm{mg} / \mathrm{kg}$ | 1 |
| $4-$ Nitroaniline | 03.12.96 | 9645 | 2.16 | 2.22 | $\mathrm{mg} / \mathrm{kg}$ | 3 |
| 4-Nitropheno 1 | 03.12.96 | 9645 | 2.54 | 2.47 | $\mathrm{mg} / \mathrm{kg}$ | 3 |
| Acenaphthene | 03.12 .96 | 9645 | 2.72 | 2.84 | $\mathrm{mg} / \mathrm{kg}$ | 4 |
| Acenaphthylene | 03.12 .96 | 9645 | 2.62 | 2.65 | $\mathrm{mg} / \mathrm{kg}$ | 1 |
| Aniline | 03.12 .96 | 9645 | 1.73 | 1.63 | $\mathrm{mg} / \mathrm{kg}$ | 6 |
| Anthracene | 03.12 .96 | 9645 | 2.38 | 2.41 | $\mathrm{mg} / \mathrm{kg}$ | 1 |
| Benzidine | 03.12 .96 | 9645 | 0 | 0 | $\mathrm{mg} / \mathrm{kg}$ | N/A |
| Benzo(a)anthracene | 03.12 .96 | 9645 | 2.59 | 2.65 | $\mathrm{mg} / \mathrm{kg}$ | 2 |
| Benzo(a) pyrene | 03.12.96 | 9645 | 2.51 | 2.54 | $\mathrm{mg} / \mathrm{kg}$ | 1 |
| Benzo(b) fluoranthene | 03.12 .96 | 9645 | 2.01 | 2.11 | $\mathrm{mg} / \mathrm{kg}$ | 5 |
| Benzo( $g$, h, i) perylene | 03.12 .96 | 9645 | 2.61 | 2.55 | $\mathrm{mg} / \mathrm{kg}$ | 2 |
| Benzo(k) fluoranthene | 03.12 .96 | 9645 | 2.68 | 2.81 | $\mathrm{mg} / \mathrm{kg}$ | 5 |
| Benzy! Alcohol | 03.12 .96 | 9645 | 2.46 | 2.48 | $\mathrm{mg} / \mathrm{kg}$ | 1 |
| Benzoic acid | 03.12 .96 | 9645 | 2.11 | 3.13 | $\mathrm{mg} / \mathrm{kg}$ | 39 |
| Butylbenzylphthalate | 03.12 .96 | 9645 | 3.25 | 3.37 | $\mathrm{mg} / \mathrm{kg}$ | 4 |
| Chrysene | 03.12.96 | 9645 | 2.58 | 2.67 | $\mathrm{mg} / \mathrm{kg}$ | 3 |

## ADDITIONAL LCS PRECISION (DUPLICATES) BATCH QC REPORT

| SAMPLE | DATE | BATCH | LC1 | LC2 |  | RELATIVE |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| F*RAMETER NUMBER | ANALYZED | NUMBER | RESULT | RESULT | UNIT | \% DIFF |
| Di-n-octylphthalate | 03.12 .96 | 9645 | 2.92 | 2.99 | $\mathrm{mg} / \mathrm{kg}$ | 2 |
| Dibenzo(a, h) anthracene | 03.12 .96 | 9645 | 2.43 | 2.48 | $\mathrm{mg} / \mathrm{kg}$ | 2 |
| Dibenzofuran | 03.12 .96 | 9645 | 2.42 | 2.48 | $\mathrm{mg} / \mathrm{kg}$ | 2 |
| Dibutylphthalate | 03.12 .96 | 9645 | 2.71 | 2.79 | $\mathrm{mg} / \mathrm{kg}$ | 3 |
| Diethylphtha late | 03.12 .96 | 9645 | 2.46 | 2.54 | $\mathrm{mg} / \mathrm{kg}$ | 3 |
| Dimethylphthalate | 03.12 .96 | 9645 | 2.57 | 2.67 | $\mathrm{mg} / \mathrm{kg}$ | 4 |
| Fluoranthene | 03.12.96 | 9645 | 2.47 | 2.52 | $\mathrm{mg} / \mathrm{kg}$ | 2 |
| Fluorene | 03.12 .96 | 9645 | 2.67 | 2.71 | $\mathrm{mg} / \mathrm{kg}$ | 1 |
| Hexach lorobenzene | 03.12 .96 | 9645 | 2.76 | 2.74 | $\mathrm{mg} / \mathrm{kg}$ | 1 |
| Hexachlorobutadiene | 03.12 .96 | 9645 | 2.89 | 2.90 | $\mathrm{mg} / \mathrm{kg}$ | 0 |
| Hexach lorocyc lopent adiene | 03.12 .96 | 9645 | 3.98 | 4.07 | $\mathrm{mg} / \mathrm{kg}$ | 2 |
| Hexachloroethane | 03.12 .96 | 9645 | 3.02 | 3.14 | $\mathrm{mg} / \mathrm{kg}$ | 4 |
| Indeno (1,2,3-c, d) pyrene | 03.12 .96 | 9645 | 2.31 | 2.63 | $\mathrm{mg} / \mathrm{kg}$ | 13 |
| Isophorone | 03.12 .96 | 9645 | 2.65 | 2.66 | $\mathrm{mg} / \mathrm{kg}$ | 1 |
| $\mathrm{N}-\mathrm{Nitrosodimethylamine}$ | 03.12 .96 | 9645 | 3.97 | 4.10 | $\mathrm{mg} / \mathrm{kg}$ | 3 |
| N -Nitrosodiphenylamine | 03.12 .96 | 9645 | 1.73 | 1.76 | $\mathrm{mg} / \mathrm{kg}$ | 2 |
| N -Nitrosodi-n-propylamine | 03.12 .96 | 9645 | 2.79 | 3.01 | $\mathrm{mg} / \mathrm{kg}$ | 8 |
| Nitrobenzene | 03.12.96 | 9645 | 2.89 | 2.93 | $\mathrm{mg} / \mathrm{kg}$ | 1 |
| Naphthalene | 03.12 .96 | 9645 | 2.37 | 2.40 | $\mathrm{mg} / \mathrm{kg}$ | 1 |
| Phenanthrene | 03.12 .96 | 9645 | 2.54 | 2.56 | $\mathrm{mg} / \mathrm{kg}$ | 1 |
| Phenol | 03.12.96 | 9645 | 1.68 | 2.44 | $\mathrm{mg} / \mathrm{kg}$ | 37 |
| Pentachlorophenol | 03.12 .96 | 9645 | 2.23 | 2.19 | $\mathrm{mg} / \mathrm{kg}$ | 2 |
| Pyrene | 03.12 .96 | 9645 | 2.86 | 2.99 | $\mathrm{mg} / \mathrm{kg}$ | 4 |
| Bis(2-chloroethoxy)methane | 03.12 .96 | 9645 | 2.22 | 2.28 | $\mathrm{mg} / \mathrm{kg}$ | 3 |
| Bis(2-chloroethyl) ether | 03.12 .96 | 9645 | 3.27 | 3.03 | $\mathrm{mg} / \mathrm{kg}$ | 8 |
| Bis(2-chloroisopropyl)ether | 03.12 .96 | 9645 | 2.92 | 2.91 | $\mathrm{mg} / \mathrm{kg}$ | 0 |
| Bis(2-ethylhexyl) phthalate | 03.12 .96 | 9645 | 2.92 | 2.96 | $\mathrm{mg} / \mathrm{kg}$ |  |
| 2-Fluorobiphenyl Reported | 03.12.96 | 9645 | 1.82 | 1.76 | $\mathrm{mg} / \mathrm{kg}$ | 3 |
| 2-Fluorobiphenyl Theo. | 03.12 .96 | 9645 | 1.67 | 1.67 | $\mathrm{mg} / \mathrm{kg}$ | 0 |
| ?-F luorophenol Reported | 03.12 .96 | 9645 | 2.57 | 2.56 | $\mathrm{mg} / \mathrm{kg}$ | 0 |
| 2-Fluorophenol Theoretical | 03.12 .96 | 9645 | 2.50 | 2.50 | $\mathrm{mg} / \mathrm{kg}$ | 0 |
| 2,4,6-Tribromophenol Rep. | 03.12 .96 | 9645 | 2.91 | 2.66 | $\mathrm{mg} / \mathrm{kg}$ | 9 |
| 2,4,6-Tribromophenol Theo. | 03.12.96 | 9645 | 2.50 | 2.50 | $\mathrm{mg} / \mathrm{kg}$ | 0 |
| Vitrobenzene-d5 Reported | 03.12.96 | 9645 | 1.78 | 1.74 | $\mathrm{mg} / \mathrm{kg}$ | 2 |
| Nitrobenzene-d5 Theoretical | 03.12 .96 | 9645 | 1.67 | 1.67 | $\mathrm{mg} / \mathrm{kg}$ | 0 |
| Phenol-d5 Reported | 03.12 .96 | 9645 | 3.05 | 2.99 | $\mathrm{mg} / \mathrm{kg}$ | 2 |
| 'henol-d5 Theoretical | 03.12 .96 | 9645 | 2.50 | 2.50 | $\mathrm{mg} / \mathrm{kg}$ | 0 |
| Serphenyl-d14 Reported | 03.12.96 | 9645 | 1.63 | 1.61 | $\mathrm{mg} / \mathrm{kg}$ | 1 |
| Terphenyl-d14 Theoretical | 03.12 .96 | 9645 | 1.67 | 1.67 | $\mathrm{mg} / \mathrm{kg}$ | 0 |
| 2 PCBs |  |  |  |  |  |  |
| late Analyzed | 03.13 .96 | 9640 | 03/13/96 | 03/13/96 | Date | N/A |
| Date Extracted | 03.13.96 | 9640 | 03/12/96 | 03/12/96 | Date | N/A |
| Aroclor 1260 | 03.13 .96 | 9640 | 0.291 | 0.260 | $\mathrm{mg} / \mathrm{kg}$ | 11 |
| lecachlorobiphenyl Reported | 03.13.96 | 9640 | 0.0095 | 0.0102 | $\mathrm{mg} / \mathrm{kg}$ | 7 |
| Uecachlorobiphenyl Theoretical | 03.13 .96 | 9640 | 0.0083 | 0.0083 | $\mathrm{mg} / \mathrm{kg}$ | 0 |

## ADDITIONAL LCS PRECISION (DUPLICATES) BATCH QC REPORT

| SAMPLE | DATE | BATCH | LC1 | LC2 |  | RELATIVE |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\Gamma^{*}$ RAMETER NUMBER | ANALYZED | NUMBER | RESULT | RESULT | UNIT | \% DIFF |
| Tetrachloro-meta-xylene Rpt. | 03.13.96 | 9640 | 0.0077 | 0.0090 | $\mathrm{mg} / \mathrm{kg}$ | 16 |
| Tetrachloro-meta-xylene Theor. | 03.13.96 | 9640 | 0.0083 | 0.0083 | $\mathrm{mg} / \mathrm{kg}$ | 0 |
| 3. Diesel/Hydraulic 0il |  |  |  |  |  |  |
| Date Analyzed | 03.07.96 | 96.3008 | 03/07/96 | 03/07/96 | Date | N/A |
| Date Extracted | 03.07.96 | 963008 | 03/07/96 | 03/07/96 | Date | N/A |
| Naphthalene Reported | 03.07.96 | 963008 | 67.6 | 81.2 | $\mathrm{mg} / \mathrm{kg}$ | 18 |
| Naphthalene Theoretical Vol. Pri. Poll. | 03.07.96 | 963008 | 50.0 | 50.0 | $\mathrm{mg} / \mathrm{kg}$ | 0 |
| Date Analyzed | 03.14 .96 | 9650187 | 03/14/96 | 03/13/96 | Date | N/A |
| 1,1,1-Trichloroethane | 03.14.96 | 9650187 | 0.0459 | 0.0395 | $\mathrm{mg} / \mathrm{kg}$ | 15 |
| 1,1,2,2-Tetrachloroethane | 03.14.96 | 9650187 | 0.0438 | 0.0504 | $\mathrm{mg} / \mathrm{kg}$ | 14 |
| 1,1,2-Trichloroethane | 03.14.96 | 9650187 | 0.0446 | 0.0497 | $\mathrm{mg} / \mathrm{kg}$ | 11 |
| 1,1-Dichloroethane | 03.14 .96 | 9650187 | 0.0414 | 0.0407 | $\mathrm{mg} / \mathrm{kg}$ | 2 |
| 1,1-Dichloroethene | 03.14.96 | 9650187 | 0.0395 | 0.0411 | $\mathrm{mg} / \mathrm{kg}$ | 4 |
| 1,2-Dichloroethane | 03.14 .96 | 9650187 | 0.0358 | 0.0370 | $\mathrm{mg} / \mathrm{kg}$ | 3 |
| 1,2-Dichlorobenzene | 03.14 .96 | 9650187 | 0.0468 | 0.0473 | $\mathrm{mg} / \mathrm{kg}$ | 1 |
| 1,2-Dichloropropane | 03.14.96 | 9650187 | 0.0404 | 0.0424 | $\mathrm{mg} / \mathrm{kg}$ | 5 |
| 1,3-Dichlorobenzene | 03.14.96 | 9650187 | 0.0475 | 0.0473 | $\mathrm{mg} / \mathrm{kg}$ | 0 |
| 1,4mDichlorobenzene | 03.14 .96 | 9650187 | 0.0463 | 0.0467 | $\mathrm{mg} / \mathrm{kg}$ | 1 |
| 2-Chloroethylv inylether | 03.14.96 | 9650187 | 0.0152 | 0.0268 | $\mathrm{mg} / \mathrm{kg}$ | 55 |
| 2-Hexanone | 03.14 .96 | 9650187 | 0.0377 | 0.0493 | $\mathrm{mg} / \mathrm{kg}$ | 27 |
| Acetone | 03.14 .96 | 9650187 | 0.0255 | 0.0376 | $\mathrm{mg} / \mathrm{kg}$ | 38 |
| Acrolein | 03.14 .96 | 9650187 | 0.0818 | 0.126 | $\mathrm{mg} / \mathrm{kg}$ | 43 |
| Acrylonitrile | 03.14 .96 | 9650187 | 0.324 | 0.432 | $\mathrm{mg} / \mathrm{kg}$ | 29 |
| Bromodichloromethane | 03.14 .96 | 9650187 | 0.0463 | 0.0497 | $\mathrm{mg} / \mathrm{kg}$ | 7 |
| Bromomethane | 03.14 .96 | 9650187 | 0.0542 | 0.0461 | $\mathrm{mg} / \mathrm{kg}$ | 16 |
| Benzene | 03.14 .96 | 9650187 | 0.0407 | 0.0405 | $\mathrm{mg} / \mathrm{kg}$ | 0 |
| Bromoform | 03.14 .96 | 9650187 | 0.0433 | 0.0475 | $\mathrm{mg} / \mathrm{kg}$ | 9 |
| C.hlorobenzene | 03.14 .96 | 9650187 | 0.0470 | 0.0492 | $\mathrm{mg} / \mathrm{kg}$ | 5 |
| Carbon Tetrachloride | 03.14 .96 | 9650187 | 0.0440 | 0.0422 | $\mathrm{mg} / \mathrm{kg}$ | 4 |
| Chloroethane | 03.14 .96 | 9650187 | 0.0675 | 0.0538 | $\mathrm{mg} / \mathrm{kg}$ | 2.3 |
| Chloroform | 03.14 .96 | 9650187 | 0.0395 | 0.0373 | $\mathrm{mg} / \mathrm{kg}$ | 6 |
| Chloromethane | 03.14 .96 | 9650187 | 0.0480 | 0.0491 | $\mathrm{mg} / \mathrm{kg}$ | 2 |
| Carbon Disulfide | 03.14 .96 | 9650187 | 0.0388 | 0.0401 | $\mathrm{mg} / \mathrm{kg}$ | 3 |
| Dibromochloromethane | 03.14.96 | 9650187 | 0.0448 | 0.0476 | $\mathrm{mg} / \mathrm{kg}$ | 6 |
| Ethylbenzene | 03.14 .96 | 9650187 | 0.0480 | 0.0497 | $\mathrm{mg} / \mathrm{kg}$ | 3 |
| Freon 113 | 03.14 .96 | 9650187 | 0.05 .36 | 0.0487 | $\mathrm{mg} / \mathrm{kg}$ | 10 |
| Methyl ethyl ketone | 03.14 .96 | 9650187 | 0.0271 | 0.0366 | $\mathrm{mg} / \mathrm{kg}$ | 30 |
| Methyl isobutyl ketone | 03.14 .96 | 9650187 | 0.0332 | 0.0477 | $\mathrm{mg} / \mathrm{kg}$ | 36 |
| Methylene chloride | 03.14 .96 | 9650187 | 0.0396 | 0.0410 | $\mathrm{mg} / \mathrm{kg}$ | 3 |
| Styrene | 03.14 .96 | 9650187 | 0.0466 | 0.0476 | $\mathrm{mg} / \mathrm{kg}$ | 2 |
| Trichloroethene | 03.14 .96 | 9650187 | 0.0391 | 0.0382 | $\mathrm{mg} / \mathrm{kg}$ | 2 |
| Trichlorof luoromethane | 03.14 .96 | 9650187 | 0.0575 | 0.0526 | $\mathrm{mg} / \mathrm{kg}$ | 9 |
| Toluene | 03.14 .96 | 9650187 | 0.0450 | 0.0484 | $\mathrm{mg} / \mathrm{kg}$ | 7 |
| Tetrachloroethene | 03.14 .96 | 9650187 | 0.0470 | 0.0504 | $\mathrm{mg} / \mathrm{kg}$ | 7 |

## ADDITIONAL LCS PRECISION (DUPLICATES) <br> BATCH QC REPORT

| SAMPLE | DATE | BATCH | LC1 | LC2 |  | RELATIVE |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PnRAMETER NUMBER | ANALYZED | NUMBER | RESULT | RESULT | UNIT | \% DIFF |
| Vinyl acetate | 03.14 .96 | 9650187 | 0.0226 | 0.0466 | $\mathrm{mg} / \mathrm{kg}$ | 69 Q |
| Vinyl chloride | 03.14 .96 | 9650187 | 0.0591 | 0.0471 | $\mathrm{mg} / \mathrm{kg}$ | 2.3 |
| Total Xylene Isomers | 03.14 .96 | 9650187 | 0.145 | 0.149 | $\mathrm{mg} / \mathrm{kg}$ | 3 |
| cis-1,2-Dichloroethene | 03.14 .96 | 9650187 | 0.0421 | 0.0419 | $\mathrm{mg} / \mathrm{kg}$ | 0 |
| cis-1,3-Dichloropropene | 03.14 .96 | 9650187 | 0.0428 | 0.0494 | $\mathrm{mg} / \mathrm{kg}$ | 14 |
| trans-1,2-Dichloroethene | 03.14.96 | 9650187 | 0.0415 | 0.0415 | $\mathrm{mg} / \mathrm{kg}$ | 0 |
| trans-1,3-Dichloropropene | 03.14 .96 | 9650187 | 0.0417 | 0.0489 | $\mathrm{mg} / \mathrm{kg}$ | 16 |
| 1,2-Dichloroethane-d4 Rep. | 03.14 .96 | 9650187 | 0.0480 | 0.0486 | $\mathrm{mg} / \mathrm{kg}$ | 1 |
| 1,2-Dichloroethane-d4 Theo. | 03.14.96 | 9650187 | 0.0500 | 0.0500 | $\mathrm{mg} / \mathrm{kg}$ | 0 |
| 4-Bromof luorobenzene Rep. | 03.14 .96 | 9650187 | 0.0481 | 0.0473 | $\mathrm{mg} / \mathrm{kg}$ | 2 |
| 4-Bromofluorobenzene Theo. | 03.14 .96 | 9650187 | 0.0500 | 0.0500 | $\mathrm{mg} / \mathrm{kg}$ | 0 |
| Toluene-d8 Reported | 03.14 .96 | 9650187 | 0.0511 | 0.0499 | $\mathrm{mg} / \mathrm{kg}$ | 2 |
| Toluene-d8 Theo. | 03.14.96 | 9650187 | 0.0500 | 0.0500 | $\mathrm{mg} / \mathrm{kg}$ | 0 |

ORDER QC REPORT FOR G9602506


ORDER QC. REPORT FOR G9602506

MATRIX QC PRECISION (DUPLICATE SPIKES) BATCH QC REPORT

| SAMPLE | DATE | B | MS | MSD |  | RELATIV |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ${ }^{n}$ IRAMETER NUMBER | ANALYZED | NUMBER | RESULT | RESULT | UNIT | DIFF |
| PCBS 9602506*1 |  |  |  |  |  |  |
| Date Analyzed | 03.12 .96 | 9640 | 03/12/96 | 03/12/96 | Date | N/A |
| Date Extracted | 03.12 .96 | 9640 | 03/12/96 | 03/12/96 | Date | N/A |
| Aroclor 1260 | 03.12 .96 | 9640 | 0.48 | 0.48 | $\mathrm{mg} / \mathrm{kg}$ | 0 |
| Decachlorobiphenyl Reported | 03.12 .96 | 9640 | 0.0113 | 0.0113 | $\mathrm{mg} / \mathrm{kg}$ | 0 |
| Decachlorobiphenyl Theoretical | 03.12 .96 | 9640 | 0.0083 | 0.0083 | $\mathrm{mg} / \mathrm{kg}$ | 0 |
| Tetrachloro-meta-xylene Rpt. | 03.12 .96 | 9640 | 0.0090 | 0.0090 | $\mathrm{mg} / \mathrm{kg}$ | 0 |
| Tetrachloro-meta-xylene Theor. | 03.12 .96 | 9640 | 0.008 .3 | 0.0083 | $\mathrm{mg} / \mathrm{kg}$ | 0 |
| 2. Diesel/Hydraulic 0il 9602506*3 |  |  |  |  |  |  |
| Date Analyzed | 03.07 .96 | 963008 | 03/07/96 | 03/07/96 | Date | $N / A$ |
| Date Extracted | 03.07 .96 | 963008 | 03/07/96 | 03/07/96 | Date | N/A |
| Hydraulic 0il | 03.07 .96 | 963008 | 640 | 614 | $\mathrm{mg} / \mathrm{kg}$ | 4 |
| Diesel | 03.07 .96 | 963008 | 628 | 603 | $\mathrm{mg} / \mathrm{kg}$ | 4 |
| Naphtha Tene Reported | 03.07 .96 | 963008 | 92.8 | 99.4 | $\mathrm{mg} / \mathrm{kg}$ | 7 |
| Naphthalene Theoretical | 03.07 .96 | 963008 | 50.0 | 50.0 | $\mathrm{mg} / \mathrm{kg}$ | 0 |
| 3. Gasoline 9602506*3 |  |  |  |  |  |  |
| Date Analyzed | 03.07.96 | 963008 | 03/07/96 | 03/07/96 | Date | N/A |
| Date Extracted | 03.07 .96 | 963008 | 03/07/96 | 03/07/96 | Date | N/A |
| Gasoline | 03.07.96 | 963008 | 851 | 778 | $\mathrm{mg} / \mathrm{kg}$ | 9 |
| Naphthalene Reported | 03.07.96 | 963008 | 86.2 | 82.3 | $\mathrm{mg} / \mathrm{kg}$ | 5 |
| Naphthalene Theoretical | 03.07 .96 | 963008 | 50.0 | 50.0 | $\mathrm{mg} / \mathrm{kg}$ | 0 |

## METHOD BLANKS AND REPORTING DETECTION LIMIT (RDL) FOR BATCHES WHICH INCLUDE THIS ORDER



## METHOD BLANKS AND REPORTING DETECTION LIMIT (RDL) FOR BATCHES WHICH INCLUDE THIS ORDER

nARAMETER
Di-n-octylphthalate
Dibenzo(a,h)anthracene
Dibenzofuran
Dibutylphthalate
Diethylphthalate
Dimethylphthalate
Fluranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno(1,2,3-c, d)pyrene
Isophorone
N-Nitrosodimethylamine
N-Nitrosodiphenylamine
N-Nitrosodi-n-propylamine
Nitrobenzene
Naphthalene
Phenanthrene
Phenol
Pentachlorophenol
Pyrene
Pyridine
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl)ether
Bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
2-Fluorobiphenyl Reported
2-Fluorobiphenyl Theo.
2-Fluorophenol Reported
2-Fluorophenol Theoretical
2,4,6-Tribromophenol Rep.
2, 4,6-Tribromophenol Theo.
Nitrobenzene-d5 Reported
Nitrobenzene-d5 Theoretical
Phenol-d5 Reported
Phenol-d5 Theoretical
Terphenyl-d14 Reported
Terphenyl-d14 Theoretical
PCBs
Date Analyzed
Date Extracted
Aroclor 1016
Aroclor 1221

ORDER QC REPORT FOR G9602506
Page 3

## METHOD BLANKS AND REPORTING DETECTION LIMIT (RDL) FOR BATCHES WHICH INCLUDE THIS ORDER

|  | DATE | BATCH | BLANK |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| P^RAMETER | ANALYZED | NUMBER | RESULT | RDL | UNIT | METHOD |
| Aroclor 1232 | 03.12 .96 | 9640 | 0 | 0.03 | $\mathrm{mg} / \mathrm{kg}$ | 8080 |
| Aroclor 1242 | 03.12.96 | 9640 | 0 | 0.03 | $\mathrm{mg} / \mathrm{kg}$ | 8080 |
| Aroc lor 1248 | 03.12 .96 | 9640 | 0 | 0.03 | $\mathrm{mg} / \mathrm{kg}$ | 8080 |
| Aroclor 1254 | 03.12.96 | 9640 | 0 | 0.03 | $\mathrm{mg} / \mathrm{kg}$ | 8080 |
| Aroc lor 1260 | 03.12 .96 | 9640 | 0 | 0.03 | $\mathrm{mg} / \mathrm{kg}$ | 8080 |
| Decachlorobiphenyl Reported | 03.12 .96 | 9640 | 0.0085 | 0.002 | $\mathrm{mg} / \mathrm{kg}$ | 8080 |
| Decachlorobiphenyl Theoretical | 03.12 .96 | 9640 | 0.0083 | NA | $\mathrm{mg} / \mathrm{kg}$ | 8080 |
| Tetrachloro-meta-xylene Rpt. | 03.12 .96 | 9640 | 0.0082 | 0.002 | $\mathrm{mg} / \mathrm{kg}$ | 8080 |
| Tetrachloro-meta-xylene Theor. | 03.12 .96 | 9640 | 0.008 .3 | NA | $\mathrm{mg} / \mathrm{kg}$ | 8080 |
| Gasoline B603667* |  |  |  |  |  |  |
| Date Analyzed | 03.07.96 | 963008 | 03/07/96 | NA | Date | 8015M |
| Date Extracted | 03.07 .96 | 963008 | 03/07/96 | NA | Date | 8015M |
| Gasoline | 03.07.96 | 963008 | 0 | NA | $\mathrm{mg} / \mathrm{kg}$ | 8015M |
| Naphthalene Reported | 03.07.96 | 963008 | 60.3 | 1 | $\mathrm{mg} / \mathrm{kg}$ | 8015M |
| Naphthalene Theoretical | 03.07.96 | 963008 | 50.0 | NA | $\mathrm{mg} / \mathrm{kg}$ | 8015M |
| 4. Diesel/Hydraulic 0il B603668*1 |  |  |  |  |  |  |
| Date Analyzed | 03.07 .96 | 963008 | 0.3/07/96 | NA | Date | 8015M |
| Date Extracted | 03.07 .96 | 963008 | 03/07/96 | NA | Date | 8015M |
| Hydraulic 0il | 03.07.96 | 963008 | 0 | NA | $\mathrm{mg} / \mathrm{kg}$ | 8015M |
| Diesel | 03.07.96 | 96.3008 | 0 | 10 | $\mathrm{mg} / \mathrm{kg}$ | 8015M |
| Naphthalene Reported | 03.07.96 | 96.3008 | 42.9 | 1 | $\mathrm{mg} / \mathrm{kg}$ | 8015M |
| Naphthalene Theoretical | 03.07.96 | 963008 | 50.0 | NA | $\mathrm{mg} / \mathrm{kg}$ | 8015M |
| 5. Vol.Pri.Poll. B603724*1 |  |  |  |  |  |  |
| Date Analyzed | 03.13.96 | 9650187 | 03/13/96 | NA | Date | 8240 |
| 1,1,1-Trichloroethane | 03.13.96 | 9650187 | 0 | 0.005 | $\mathrm{mg} / \mathrm{kg}$ | 8240 |
| 1,1,2,2-Tetrachloroethane | 03.13 .96 | 9650187 | 0 | 0.005 | $\mathrm{mg} / \mathrm{kg}$ | 8240 |
| 1,1,2-Trichloroethane | 03.13 .96 | 9650187 | 0 | 0.005 | $\mathrm{mg} / \mathrm{kg}$ | 8240 |
| 1,1-Dichloroethane | 03.13 .96 | 9650187 | 0 | 0.005 | $\mathrm{mg} / \mathrm{kg}$ | 8240 |
| 1,1-Dichloroethene | 03.13.96 | 9650187 | 0 | 0.005 | $\mathrm{mg} / \mathrm{kg}$ | 8240 |
| 1,2-Dichloroethane | 03.13.96 | 9650187 | 0 | 0.005 | $\mathrm{mg} / \mathrm{kg}$ | 8240 |
| 1,2-Dichlorobenzene | 03.13.96 | 9650187 | 0 | 0.005 | $\mathrm{mg} / \mathrm{kg}$ | 8240 |
| 1,2-Dichloropropane | 03.13 .96 | 9650187 | 0 | 0.005 | $\mathrm{mg} / \mathrm{kg}$ | 8240 |
| 1,3-Dichlorobenzene | 03.13.96 | 9650187 | 0 | 0.005 | $\mathrm{mg} / \mathrm{kg}$ | 8240 |
| 1,4-Dichlorobenzene | 03.13 .96 | 9650187 | 0 | 0.005 | $\mathrm{mg} / \mathrm{kg}$ | 8240 |
| 2-Chloroethylv inylether | 03.13 .96 | 9650187 | 0 | 0.005 | $\mathrm{mg} / \mathrm{kg}$ | 8240 |
| 2-Hexanone | 03.13.96 | 9650187 | 0 | 0.03 | $\mathrm{mg} / \mathrm{kg}$ | 8240 |
| Acetone | 03.13 .96 | 9650187 | 0.012 | 0.1 | $\mathrm{mg} / \mathrm{kg}$ | 8240 |
| Acrolein | 03.13 .96 | 9650187 | 0 | 0.3 | $\mathrm{mg} / \mathrm{kg}$ | 8240 |
| Acrylonitrile | 03.13.96 | 9650187 | 0 | 0.3 | $\mathrm{mg} / \mathrm{kg}$ | 8240 |
| Bromodichloromethane | 03.13 .96 | 9650187 | 0 | 0.005 | $\mathrm{mg} / \mathrm{kg}$ | 8240 |
| Bromomethane | 03.13 .96 | 9650187 | 0 | 0.005 | $\mathrm{mg} / \mathrm{kg}$ | 8240 |
| Benzene | 03.13.96 | 9650187 | 0 | 0.005 | $\mathrm{mg} / \mathrm{kg}$ | 8240 |
| Bromoform | 03.13 .96 | 9650187 | 0 | 0.005 | $\mathrm{mg} / \mathrm{kg}$ | 8240 |
| Chlorobenzene | 03.13.96 | 9650187 | 0 | 0.005 | $\mathrm{mg} / \mathrm{kg}$ | 8240 |
| Carbon Tetrachloride | 03.13.96 | 9650187 | 0 | 0.005 | $\mathrm{mg} / \mathrm{kg}$ | 8240 |

METHOD BLANKS AND REPORTING DETECTION LIMIT (RDL) FOR BATCHES WHICH INCLUDE THIS ORDER
MRAMETER
Chloroethane
Chloroform
Chloromethane
Carbon Disulfide
Dibromochloromethane
Ethylbenzene
Freon 113
Methyl ethyl ketone
Methyl isobutyl ketone
Methylene chloride
Styrene
Trichloroethene
Trichlorofluoromethane
Toluene
Tetrachloroethene
Vinyl acetate
Viny 1 chloride
Total Xylene Isomers
cis-1,2-Dichloroethene
cis-1, 3-Dichloropropene
trans-1, 2-Dichloroethene
trans-1, 3-Dichloropropene
1,2-Dichloroethane-d4 Rep.
l, 2-Dichloroethane-d4 Theo.
4-Bromofluorobenzene Rep.
4-Bromofluorobenzene Theo.
Toluene-d8 Reported
Toluene-d8 Theo.

| DATE | BATCH | BLANK |  |  |  |
| :---: | :--- | :--- | :--- | :--- | :--- |
| ANALYZED | NUMBER | RESULT | RDL | UNIT | METHOD |
| 03.13 .96 | 9650187 | 0 | 0.005 | $\mathrm{mg} / \mathrm{kg}$ | 8240 |
| 03.13 .96 | 9650187 | 0 | 0.005 | $\mathrm{mg} / \mathrm{kg}$ | 8240 |
| 03.13 .96 | 9650187 | 0 | 0.005 | $\mathrm{mg} / \mathrm{kg}$ | 8240 |
| 03.13 .96 | 9650187 | 0 | 0.01 | $\mathrm{mg} / \mathrm{kg}$ | 8240 |
| 03.13 .96 | 9650187 | 0 | 0.005 | $\mathrm{mg} / \mathrm{kg}$ | 8240 |
| 03.13 .96 | 9650187 | 0 | 0.005 | $\mathrm{mg} / \mathrm{kg}$ | 8240 |
| 03.13 .96 | 9650187 | 0 | 0.01 | $\mathrm{mg} / \mathrm{kg}$ | 8240 |
| 03.13 .96 | 9650187 | 0 | 0.03 | $\mathrm{mg} / \mathrm{kg}$ | 8240 |
| 03.13 .96 | 9650187 | 0 | 0.03 | $\mathrm{mg} / \mathrm{kg}$ | 8240 |
| 03.13 .96 | 9650187 | 0.0016 | 0.005 | $\mathrm{mg} / \mathrm{kg}$ | 8240 |
| 03.13 .96 | 9650187 | 0 | 0.005 | $\mathrm{mg} / \mathrm{kg}$ | 8240 |
| 03.13 .96 | 9650187 | 0 | 0.005 | $\mathrm{mg} / \mathrm{kg}$ | 8240 |
| 03.13 .96 | 9650187 | 0 | 0.005 | $\mathrm{mg} / \mathrm{kg}$ | 8240 |
| 03.13 .96 | 9650187 | 0 | 0.005 | $\mathrm{mg} / \mathrm{kg}$ | 8240 |
| 03.13 .96 | 9650187 | 0 | 0.005 | $\mathrm{mg} / \mathrm{kg}$ | 8240 |
| 03.13 .96 | 9650187 | 0 | 0.05 | $\mathrm{mg} / \mathrm{kg}$ | 8240 |
| 03.13 .96 | 9650187 | 0 | 0.005 | $\mathrm{mg} / \mathrm{kg}$ | 8240 |
| 03.13 .96 | 9650187 | 0 | 0.02 | $\mathrm{mg} / \mathrm{kg}$ | 8240 |
| 03.13 .96 | 9650187 | 0 | 0.005 | $\mathrm{mg} / \mathrm{kg}$ | 8240 |
| 03.13 .96 | 9650187 | 0 | 0.005 | $\mathrm{mg} / \mathrm{kg}$ | 8240 |
| 03.13 .96 | 9650187 | 0 | 0.005 | $\mathrm{mg} / \mathrm{kg}$ | 8240 |
| 03.13 .96 | 9650187 | 0 | 0.005 | $\mathrm{mg} / \mathrm{kg}$ | 8240 |
| 03.13 .96 | 9650187 | 0.0472 | 0.005 | $\mathrm{mg} / \mathrm{kg}$ | 8240 |
| 03.13 .96 | 9650187 | 0.0500 | $N A$ | $\mathrm{mg} / \mathrm{kg}$ | 8240 |
| 03.13 .96 | 9650187 | 0.0478 | 0.005 | $\mathrm{mg} / \mathrm{kg}$ | 8240 |
| 03.13 .96 | 9650187 | 0.0500 | NA | $\mathrm{mg} / \mathrm{kg}$ | 8240 |
| 03.13 .96 | 9650187 | 0.0476 | 0.005 | $\mathrm{mg} / \mathrm{kg}$ | 8240 |
| 03.13 .96 | 9650187 | 0.0500 | NA | $\mathrm{mg} / \mathrm{kg}$ | 8240 |



 afipmis is snoanbeuon- $\forall \mathrm{FN}$ snoanby-5V $23 \%$.

## APPENDIX C

## NON-HAZARDOUS WASTE MANIFEST

WITH \#OO1713 NON-HAZARDOUS

MATERIALS MANIFEST

GENERATOR
Site Address 9000 Northazte. SenRofaed CA
Matumpept 824 C .3333 Gerent Rod, Ebifman Estates 14 lo l 79

TRANSPORTER Dem Best Transportation
address. $\$ 30$ Shiloh Red Bled r 44


I hereby certify that the above named material was picked up at the generator site lisiegategre.
Driver Name: $\qquad$ Signature
Truck No. Ship Date: $\qquad$ $4-30-96$
Time ot Pickup: , /Lion fin
$\qquad$ Time of Delivery: $\qquad$

Consultad/Owner
Tames + More"
Address 221 Man St Ste 600 SE An q4105
Phone :/fISt $896-5858$ $\qquad$
I herby certify that the above named material is consistent with the information presented in the Waste Characterization Form and Contaminated Soil Description Form, and has been properly described, classified and packaged. and is in proper condition for transpon according to applicable regulation.
Name
 Date: $\qquad$ $4 / 24 / 96$

Recycling Facility
2717 GOODRICK AVENUE RICHMOND, CA 94801
RECEIVED BY: $\qquad$
Control No:


A COPY OF THIS SHEET MUST ACCOMPANY EVERY LOAD. AND MUST BE SUBMITTED AT THE GATE FOR ENTRY. ALL LOADS MUST BE SCHEDULED AT LEAST 24 HOURS IN ADVANCE DELIVERIES MUST BE SCHEDULED ON A DAILY BASIS. ANY UNSCHEDULED LOADS MAY BE REFUSED AT THE GATE.

# Tinifity Puylessme <br> LEGAL DEPARTMENT 

I. Lawrence Gelman

Vice President - Real Estate Law
August 13, 1998

## Via Federal Express

$\checkmark$ Macerich Northwestern Associates
c/o The Macerich Company
P.O. Box 2172

401 Wilshire Boulevard \#700
Santa Monica, CA 90407
Attn: Che A. Cramin, Legal Department

MAIN OFFICE:
30 Hunter Lane, Camp Hill, PA 17011
Telephone No.: (717) 761-2633
Fax No.: (717) 975-5952 Fax


Macerich Northwestern Associates Broadway Plaza
1275 Broadway Plaza
Walnut Creek, CA 94596
Attn: Manager

## RE: Las Gallinas \& Northgate Drive, San Rafael, CA/Proposed RA\#5958-relo

 Lease dated February 23, 1984 as amended (the "Lease") for premises located at 1500 Northgate Mall, San Rafael, CA (the "Premises")Gentlemen:
Pursuant to Paragraph $44(\mathrm{~g})$ of that certain Lease Amendment Agreement dated December 29, 1997 regarding the New Premises, please find a copy of a Geotechnical Investigation Report prepared by Tong \& Chang Consultants, Inc. dated August 4, 1998 and an Environmental Site Assessment Report prepared by Faulting Associates, Inc. dated August 4, 1998 (the "Environmental Report").

The Environmental Report recommends further subsurface investigation to determine whether the offsite sources of Hazardous Materials have migrated to the Land. For this reason, we are requesting your approval to conduct a limited Phase II assessment. However, due to the fact that the Land Approval Period expires 60 days from receipt of Landlord's Notice of Relocation of Premises, which is dated June 18, 1998, we are obliged to preserve our rights under the Lease as amended and accordingly, this will serve as our Notice of Disapproval of the environmental condition of the Land.

We would like to extend the Land Approval Period for a short period to conduct a limited Phase II assessment of the condition identified herein. Upon your receipt and review of the enclosures, please contact the undersigned to discuss our request further. This will serve to confirm our telephone conversation this afternoon with Che Cramin of the Macerich Company wherein he agreed that our Federal Express mailing satisfies the notice requirements under the Lease with regard to the foregoing.

$\square$ P.O. Box 3165
Harrisburg, PA 17105
(717) 761-2633
(717) 975-5952 Fax

7 Neshaminy Interplex, Suite 209 Trevose, PA 19053
(215) 245-6553
(215) 245-4275 Fax

# ENVIRONMENTAL SITE ASSESSMENT REPORT 

FOR
RITE.AID STORE SITE NORTHGATE@LASGALLINAS

SAN RAFAEL, CA

Auqust 4,1998

Faultiline Associates, Inc.

## Faultline Associates, Inc.

August 4, 1998

Reference: File No. SF075-050

Mr. Ted Äquino
Tait \& Associates, Inc.
1001 Galaxy Way, Suite 304
Concord, CA 94520
Subject: Phase I Environmental Site Assessment Report
Rite Aid Store Site
Northgate Dr. @ Las Gallinas Ave., San Rafael, CA

## Dear Mr. Aquino:

Pursuant to your request, FAULTLINE Associates, Inc., is pleased to submit for your review and consideration, the attached Phase I Site Assessment Report for the Rite Aid, San Rafael site.

The attached report presents the activities performed and includes data pertaining to on-site inspection and evaluation activities, regulatory file review, and conclusions and recommendations.

Please contact us at your earliest convenience if you have any questions concerning the information provided or if you require any additional assistance.

Sincerely,


David C. Solis; J.D., P.E.
Principal

Attachment

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# PHASE I ENVIRONMENTAL SITE ASSESSMENT 

RITE AID STORE SITE

## LAS GALLINAS @ NORTHGATE

SAN RAFAEL, CALIFORNIA

## I. INTRODUCTION AND PURPOSE

This report presents the results of a Phase I Environmental Site Assessment conducted at the above mentioned site near the intersection of Northgate Drive and Las Gallinas Avenue, San Rafael, California. At the request of Tait \& Associates, Inc., the subject site is covered in this Phase I Environmental Site Assessment and will be referred to as (the subject site).

FAULTLINE Associates, Inc. (FAI) has prepared this Phase I Environmental Site Assessment (PIESA), as authorized by Tait \& Associates, Inc., in accordance with the current standard environmental assessment practices in the region.

The purpose of the ESA is to identify the potential presence of hazardous wastes or substances and/or related present or past activities which might be a source of contamination on the subject site or in the site vicinity.

## II. SCOPE OF WORK

In accordance with our proposal dated June 29, 1998, this PI-ESA consists of the following tasks:

1. Provide a site overview to include location, description of adjacent properties, and a general description of the subject site.
2. Provide available data on the history and operations of the subject site.
3. Present reference data on the environmental setting including general information on surface topography, soil conditions, groundwater conditions, and any pertinent data from third party consultants or agencies.
4. Provide results of the following investigation activities:
a. Investigate waste site database (VISTA) or other published information regarding waste sites in the area of the subject site.
b. Perform reconnaissance and traverses of the parcels and the surrounding areas.

Observe site conditions for evidence of past activities which suggest the handling of hazardous wastes or hazardous substances.
c. Review available aerial photographs of the site over the past history of site activity.
d. Contact regulatory agencies and other parties with knowledge of past site and site area activities. Review agency files as appropriate.
5. Prepare a discussion focusing on potential pollutant sources and hazardous material/waste activities on or near the project site.
6. Prepare this report upon the completion of the five previous tasks and include our findings and conclusions regarding the potential for contamination of each site and/or site area from the information collected.

## III. SITE OVERVIEW

## A. Location and Description

The subject site is located approximately 0.25 - miles east of US 101 and 0.1-miles south of Freitas Parkway at the southwestern fringe of the Tera Linda district of San Rafael in Marin County California. The site, located at the intersection of Northgate Dr. and Las Gallinas Ave. consists of a rectangular shaped parcel totaling approximately 50,000 square feet. The site rests at an elevation of approximately 70 -feet above mean sea level (U.S. Geological Survey, 1978). Development in the direct vicinity of the subject site vary from residential to commercial buildings, however, the predominant local development is commercial. The subject site is bounded to the north by Las Gallinas Ave., the south by Northgate Mall, the east by surplus mall parking, and the west by Northgate Dr. There are no current structures maintained on the subject parcel.

Surface water at the site drains into several catch basins located throughout the parcel. The catch basins are drained by several storm drains located on both Northgate Dr. and Las Gallinas Ave. and eventually to the San Pablo Bay. The topography of the site is relatively flat with a slight grade toward the north.


## FAULTLINE

Associates, Inc.
1630 N. Main St. Walnul Creck, CA 94596

| Project Name: | Northgate @ Las Galinas, |
| :--- | :--- |
|  | San Rafael, CA |

SITE LOCATION MAP

## B. Project Area History

This area of north-central Marin County had been primarily agricultural of an unknown nature and residential from the late 1800's to the late 1960's. Both residential and commercial development in the general vicinity has rapidly accelerated since the early1970's. The subject site was initially developed sometime between 1963 and 1970 to be, and has remained as, the northwest parking area for the Northgate Mall.

## C. Regional Geologic Setting

The general Tera Linda and San Rafael area lie on the east side of the San Andreas Fault and rests between Big Rock Ridge to the northwest, Mt. Tamalpias to the southwest and the San Francisco Bay to the east. It is situated upon the Franciscan assemblage which underlies a large portion of Marin County. The Franciscan assemblage is a heterogeneous assemblage of rocks including graywacke, arkoxic sandstone, shale, altered volcanics, chert, and serpentinite that are sheared and intermixed to various degrees. The rocks are considered sedimentary, metamorphic and igneous.

Subsurface soils within the area have been characterized as deposits of sand, sandstone, greenstone, and serpentine.

## D. Site Hydrologic Setting

The subject site rests at an elevation of approximately 70 -feet above mean sea level. The site was observed to be generally flat with a slight grade to the north. Surface runoff and storm water on the site in the general community drains into several catch basins located on the subject property and surrounding thoroughfares. The catch basins and storm drains are drained to the San Pablo Bay. Local waterways or tributaries in the arca are the Miller Creek, located approximately 1.5 -miles north of the site and the south fork of the Gallinas Creek, located .75 -miles east of the subject site.

Available data pertaining to the groundwater conditions in the immediate area of the subject site indicate a depth to the first groundwater table of approximately 24 to 30 -feet below ground surface Regional groundwater flow direction is assumed to be toward the south/southeast.

## E. Environmental Setting

The subject site is located in a mixed commercial/residential area. The site is relatively level with a slight grade toward the north. The site is predominantly surrounded by commercial buildings. The site is completely paved with asphaltic materials. Sporadic vegetation in the form of trees planted in planter type boxes are found throughout the site.


LAS GALIINAS


| Project Name: <br> Sorthgate @ Qal Rafael, CA |  |
| :---: | :---: |
| Croject Number: <br> SF075-050 | Date: |
| Srawn By: <br> TLJ | RUG 4, 1998 |

## IV. RESULTS OF FIELD INVESTIGATIONS

## A. Site Reconnaissance

Reconnaissance of the subject site was conducted on July 17, 1998. Inspection of the subject site was conducted by site reconnaissance and aerial photograph review. The subject site consists of a single rectangular parcel totaling approximately 50,000 square feet. This Phase I Environmental Site Assessment did not include soil, water, or Asbestos Containing Materials (ACM) sampling.

## B. Site Audit/Inspection Findings

Potential environmental risk observations were made during the site inspection that took place on July 17, 1998. The following is a list of environmental hazards that are commonly addressed in a Phase I Environmental Site Assessment. Their presence in this section does not necessarily imply their presence on the subject site unless otherwise noted.

## Asbestos

Any structure built before 1978 has the potential to contain asbestos as an insulating component. No structures were encountered at the subject site.

## PCB's

Electrical transformer boxes are the primary source of PCB's as a contaminant source. No overhead electrical lines with electrical transformer boxes or underground transformer vaults were observed at or near the subject site.

## Underground Structures

No historical usage of any subsurface structures such as underground tanks (UST) or sumps was revealed during the site historical use review. Additionally, no evidence of fill pipes, vent lines or other apparatus which may be associated with the usage of UST or sumps was observed or noted during site inspection activities.

## Groundwater Wells

No groundwater wells either domestic or industrial were observed at the subject site. However, several environmental groundwater monitoring wells were observed at several sites located within 500 feet of the subject parcel.

Spills
No signs of surface spills or stressed vegetation were noted during the site inspection.

## Air Emissions

No obvious environmentally hazardous air emitters were noted near the subject site during the site inspection. No evidence of documented fugitive air emission violations was found during file research activities.

## Water Supplies

Water is currently supplied by the Marin Municipal Water District

## Hazardous Materials

A visual inspection of the subject site did not discover any signs of stressed vegetation related to hazardous material exposure. No indications of hazardous material storage was noted during the site inspection.

## Radon

Radon is a radioactive gas released during the decay of uranium. It can build up in homes and other structures underlain by uranium-bearing rocks. These rocks are commonly associated with granitic plutons such as the Sierra Nevada Batholith. Occurrences in a sedimentary basin such as the San Rafael area have not been identified and the risk is therefore minimal. There has been uranite found in gold-bearing sedimentary deposits, although it is not common.

## Lead

Any structure built before 1978 has the potential to contain lead based paint. No structures were encountered at the subject site.

## Formaldehyde

There was no evidence of the use or storage of any formaldehyde containing materials at the subject sites.

## Pesticides

The site docs have known historical agricultural usage prior to 1960. Although application of both pesticide and herbicidal chemicals was common practice during this era, it is highly unlikely that residual concentrations of these chemicals which would present a human health risk would be encountered at the site. Further assessment of the native soils would be required to confirm any potential impact to the subsurface soils and/or groundwater by pesticides.

## Scwer System

Sanitary sewage services are supplied to the site by the Marin County Sanitary District.

## Surface Drainage

Surface runoff and storm water on the site in the general community drains into several catch basins and storm drains located on the subject property and surrounding thoroughfares. The catch basins and storm drains are drained eventually to the San Pablo Bay.

## V. REGULATORY AGENCY CONTACTS, LIST AND FILE REVIEW

Agency contacts were made and available lists of known active and abandoned hazardous waste/material sites were reviewed in order to compile a list of potential sources of contamination in the vicinity of the sites. The lists reviewed and sites identified within one mile of the subject sites are in the VISTA database report presented in Appendix A. In addition to the VISTA database search, we reviewed site area files and lists at the Marin Fire District Headquarters. This section presents information gathered as a result of the list review and file inspection.

## A. List Review

The following are the lists reviewed during this phase of investigation and the corresponding sites within approximately one mile of the subject site.

| CERCLIS | Contaminated sites under CERCLA (1980) |
| :--- | :--- |
| NPL | Federal Superfund Sites List |
| TSD | Facilities that treat, store, or dispose of hazardous waste |
| CORRACTS | Facilities under RCRA corrective actions |
| SPL | Sites prioritized by the State for cleanup |
| SCL | Sites under review by the State |
| SWLF | Sites permitted as solid waste landfills, incinerators, or transfer |
|  | stations |
| TOXIC PITS | Toxic Pits cleanup list |
| TRIS | Facilities with toxic chemical releases, and inventories |
| UST/AST | Sites with registered underground or aboveground storage tanks |
| CORTESE | Hazardous Waste and Substances Site List |
| ERNS | Sites with previous hazardous materials spills |
| GNRTR | Sites that generate large or small quantities of hazardous waste |
| LUST | Leaking Underground Storage Tanks - SF Bay Region 1, |
|  | Leaking Underground Tank List |
| LUFT | Leaking Underground Fuel Tank List, Marin Fire District |

## B. Regulatory and Public Entity Contacts

Review of the Vista Data Base which identifies several Leaking Underground Storage Tank (LUST) sites within the general community of the subject site and evaluation of the relationship to the location of the subject site to the LUST sites, indicates that a majority of the listed LUST sites are either up or cross-gradient from the subject site. This would indicate that the subject site may be considered a moderate risk as a recipient of migratory contamination from any of the nearby impacted facilities. Although this claim is substantiated by regional groundwater flow data, for purposes of validation, several contacts were made to locate past records and information, and to determine the current status of the closest active impacted sites shown on the hazardous waste materials site lists described above. Selected regulatory files were reviewed and are discussed below.

| Site \& Distance from subject site | UST <br> Removed | Type of Contaminant | Site Investigation | Site Remedial Status | Closure |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 4244 Redwood, 037-miles, NE | UST removed 9-95 | Gas, diesel | Complete 4-96 | Remediation by excavation complete 5-96. | 10-96 |
| 99 Monticello, 0.40 - miles, E | UST removed 11-97 | Dicsel | No impact identified. |  | NA |
| 1005 Northgate, 0.01 - miles, N | UST removed 7-96 | Waste Oil | Complete 3-97. Monitoring is ongoing. |  |  |
| 949 Del Presidio, 0.01 - miles, N | Tanks installed 1983 | Gas, diesel | Wells installed 5-98. <br> Monitoring is ongoing. |  |  |
| 930 Del Presidio, 0.01 -miles, N | 1990 | Gas, diesel | NA | Active groundwater remediation has been ongoing since 1992. |  |
| 4300 Redwood, 0.00 -miles, NE | NA | Solvents | Complete 1983 | Active groundwater remediation has been ongoing since 1984. |  |
| 950 Del Presidio, 0.01 -miles, N | NA | Gas, dicsel | Wells installed 1997. Monitoring is on-going. |  |  |
| 929 Del Presidio, 0.01 -miles, N | UST removed 1991 | Gas, diesel | Complete 1991 | Remediation by excavation complete 5-91. | 4-96 |

## VI. AERIAL PHOTOGRAPH REVIEW

Aerial photographs taken in 1950, 1963, 1970, 1980, 1990, and 1996 were reviewed at Pacific Aerial Survey in Oakland, California. The following section summarizes the pertinent details of site and adjacent area activities as they appeared on these photographs.

## 1950, October 10, Photo ID \#AV41-03-06

The subject site is undeveloped as is the surrounding community. The general vicinity is comprised primarily of agricultural fields and farm houses. The Old Redwood Hwy is the main thoroughfare in the area.

## 1963, July 9, Photo ID \#AV550-03-14

The subject site is undeveloped as are the adjacent commercial sites. Residential development in the general vicinity is expanding, however sparse. No significant industrial development is identified.

## 1970, July 2, Photo ID \#AV957-04-19

The subject site has been developed as a large complex and is modified slightly from it's current state. Del Presidio Ave. which currently dead ends at the mall parking lot extends through the lot and proceeds to the mall. The development in the area is still predominantly residential although commercial construction is visible. Residential and commercial development in the general community has increased at an accelerated rate. Several gas stations have been constructed on Del Presidio Ave. at the north side of the subject site. No other significant industrial development in the general vicinity is identified.

## 1980, July 17, Photo ID \#AV1840-05-18, (1:12,000)

The subject site appears as it does today. Commercial and residential development in the general community is continuing to expand. All previously identified gas stations are intact and appear to be operational. No significant industrial development in the general vicinity is identified.

1990, March 15, Photo ID \#AV3766-10-53, (1:12,000)
The subject site appears as it does today. All previously identified gas stations are intact and appear to be operational. No significant industrial development in the general vicinity is identified.

1996, March 15, Photo ID \#KAV5132-112-12, (1:24,000)
The site and adjacent lots appear as they do today. The UNOCAL station located on the north side of the site is under renovation. The gas station located on the north side of Freitas Pkwy has been abandoned. No significant industrial development in the general vicinity is identified.

## VII. CONCLUSIONS AND RECOMMENDATIONS

The summary and conclusions presented in this section are based on observations, field investigation descriptions, analytical results, and interpretations delineated and developed in the body of this report. The following are key conclusions for the site inspection activities performed:

- The record search from local, state, and federal agencies revealed no indications of fuel or hazardous material spills, leaks, or disposal on the subject site.
- Our site survey detected no visual or olfactory evidence of hazardous material/waste disposal to the surfaces of the subject site.
- Review and evaluation of identified neighboring impacted sites indicates a potential risk, although minimal, of contaminant migration to the subject site.

Definitive conclusions regarding the subsurface conditions related to environmental concerns at the subject sites are beyond the scope of this project as no soil or water sampling was included in this scope of work.

## RECOMMENDATIONS

The following recommendations are made based upon review and evaluation of the above-discussed conclusions:
$\checkmark \quad$ As three up-gradient sites which are in close proximity to the subject site have been identified to have impact to the localized groundwater by petroleum hydrocarbons, consideration should be given to the collection of water samples to validate the water quality at the subject parcel.

## VIII. REPORT LIMITATIONS

This report has been prepared for the exclusive use of Rite Aid Corporation and Tait \& Associates, Inc. with specific application to the subject site in San Rafael, California. The use of this report, its contents, or any part of it, or its agents, other than the ones for whom this report is prepared, is herewith disallowed.

In part, these findings, conclusions, and recommendations are based on the best available information known or made available by regulators, other consultants, or other sources. Over time, the surficial evidence of some activities are obscured or obliterated entirely. It is possible that certain adverse conditions could exist at the sites which were not detected in this evaluation.

The services provided under this contract as described in this report include professional opinions and judgements based on data collected. These services have been performed according to generally accepted assessment practices. The opinions and conclusions contained in this report are typically based on information obtained from:

1. Observations and measurements by field staff
2. Contacts and discussions with regulatory agencies and others
3. Review of available hazardous substance or solid waste site lists
4. Opinions and judgements of our personnel based on available information.

The Client has retained FAI for the sole purpose of assisting the Client in evaluating the environmental liability associated with the project site. It is recognized and agreed that FAI has assumed responsibility only for performing this investigation and presenting this report and conclusions to the Client. The responsibility for making any further evaluation, disclosure, or report to any third party or for the taking of corrective, remedial, and/or mitigative action shall be solely that of the Client. The Client agrees to hold FAI harmless from any and all liability, damage, loss, cost, or expense, including attorney fees, in any way arising from the claim of any third party. FAI agrees not to make, except at the clients request, any report to any third party not legally required of it.

Respectfully Submitted, Faultine Associates, Inc.


David C. Solis, J.D., P.E. Principal/Sr. Project Manager


## Appendix A

## Vista Site Assessment Plus Report July 9, 1998

## SITE ASSESSMENT PLUS REPORT

| PROPERTY <br> INFORMATION | CLIENT |
| :--- | :--- |
| Project Name/Ref \#: Not Provided | INFORMATION |
| RITE AID | DAVIDC, SOLIS |
| NORTHGATE DR AT LAS GALINAS AVE | FAULTLINE ASSOCIATES-WALNUT CR |
| SAN RAFAEL, CA 94903 | 1630 N MAIN ST |
| Cross Street: LAS GALINAS | WALNUT CREEK, CA 94596 |
| Latitude/Longitude: $(38.008839,122.544592)$ |  |





For More Information Call VISTA Information Solutions, Inc. at 1-800-767-0403


For More Information Call VISTA Information Solutions, Inc. at 1-800-767-0403
Report ID: 214432001

| SITE ASSESSMENT PLUS REPORT |
| :--- | :--- |




| MAP ID | PROPERTY AND THE ADJACENT AREA (within $1 / 8$ mile) |  | A |  | B |  |  |  |  |  |  |  |  | C |  |  | D |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | $\frac{1}{0}$ |  | $0$ | $\left\|\begin{array}{l} 1 \\ 0 \\ 0 \end{array}\right\|$ | $\stackrel{\rightharpoonup}{\infty}$ | $\left\|\begin{array}{l} 4 \\ 3 \\ 3 \\ \infty \end{array}\right\|$ | $\begin{aligned} & \boldsymbol{\alpha} \\ & \underset{\sim}{\alpha} \\ & \sim \\ & \underset{\sim}{u} \\ & \underset{\sim}{u} \end{aligned}$ | $\begin{aligned} & \underset{\sim}{z} \\ & \mathbf{\infty} \\ & \mathbf{I} \\ & \underset{\alpha}{\alpha} \\ & \mathbf{z} \\ & \mathbf{z} \end{aligned}$ | $\left\lvert\, \begin{aligned} & \underset{\sim}{w} \\ & \underset{\sim}{\mu} \\ & \underset{\sim}{\alpha} \\ & \underset{\sim}{0} \end{aligned}\right.$ | $\begin{aligned} & a \\ & \frac{1}{a} \\ & \frac{0}{x} \\ & \mathbf{x} \\ & 1 \end{aligned}$ |  | $\frac{o n}{\underline{\alpha}}$ |  | $\left\lvert\, \begin{aligned} & \underset{\sim}{n} \\ & \underset{\sim}{\mathcal{Z}} \\ & \hline \end{aligned}\right.$ | $\begin{aligned} & \alpha \\ & \frac{\alpha}{\alpha} \\ & \frac{\alpha}{2} \\ & \hline \end{aligned}$ | $\frac{n}{\frac{a}{3}}$ |
| 1 | UNION OIL SS\# 4774 1253585 <br> 929 DEL PRESIDIO 0.00 MA <br> SAN RAFAEL, CA 94903  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X |  |  |  |
| 1 | UNOCAL 5354072 <br> 929 DEL PRESIDIO BLVD 0.00 MA <br> SAN RAFAEL, CA 94903 NA |  |  |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |
| 1 | UNOCAL 2745802 <br> 929 DEL PRESIDIO BLVD 0.00 MI <br> SAN RAFAEL, CA 94903 NA |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 93553 CHEVRON 932624 <br> 949 DEL PRESIDIO $<0.01 \mathrm{MI}$ <br> SAN RAFAEL, CA 94903 $E$ |  |  |  |  |  |  | X |  |  |  | X |  |  |  | X |  |  |  |
| 1 | EXXON SERVICE STATION $7-7067$ 1583911 <br> 930 DEL. PRESIDIO 0.01 MI <br> SAN RAFAEL, CA 94903  |  |  |  |  |  |  | X |  |  |  | x |  |  |  | X |  |  |  |
| 1 | NORTHGATE SHELL 377355 <br> 950 DEL PRESIDIO 0.01 MI <br> SAN RAFAEL. CA 94903  <br> PA  |  |  |  |  |  |  | X |  |  |  | X |  |  |  | X |  |  |  |
| 2A | PAUL D SATHER M D RADIOLOGY OFFIG 88457 750 LAS GALLINOS 101 SAN RAFAEL, CA 94903 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X |  |
| 2B | ARTS AUTO CARE 4036181 <br> 1005 NORTHGATE 0.01 Mf <br> SAN RAFAEL, CA 94903  |  |  |  |  |  |  | X |  |  |  |  |  |  |  | X |  |  |  |
| 3 | PACIFIC BELL 315567 <br> 820 LAS GALLINAS AVE $0.05 \mathrm{M} \mathrm{\prime}$ <br> SAN RAFAEL, CA 94903  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $x$ |  |
| 4 | NORTHGATE MALL 300623 <br> 5800 NORTHGATE MALL 0.07 MI <br> SAN RAFAEL, CA 94903 S |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $x$ |  |
| 4 | EXPRESSLY PORTRAITS INC 4062708 <br> 5600 NORTHGATE MALL 0.07 MI <br> SAN RAFAEL, CA 94903 S |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $x$ |  |
| 4 | PAYLESS 4372 5356395 <br> 1500 NORTHGATE MALL 0.07 MI <br> SAN RAFAEL, CA 94903 S |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $x$ |  |



| MAP | SITES IN THE SURROUNDING AREA （within 1／4－1／2 mile） |  |  | A |  | B |  |  |  |  |  |  |  |  | C |  |  | D |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | $\frac{1}{2}$ |  | $\frac{a}{a}$ |  | $\begin{array}{\|c\|} \hline 0 \\ \circ \\ \hline \end{array}$ | $\begin{aligned} & 1 \\ & 0 \\ & 0 \end{aligned}$ | $\stackrel{1}{9}$ | $\stackrel{\stackrel{u}{3}}{\stackrel{3}{s}}$ | $\begin{aligned} & \frac{\alpha}{6} \\ & \alpha \\ & \alpha \\ & 0 \\ & \underset{\sim}{u} \\ & 0 \end{aligned}$ |  | $\begin{aligned} & \underset{\sim}{w} \\ & \underset{\sim}{\mu} \\ & \stackrel{\alpha}{0} \\ & \hline \end{aligned}$ | $\begin{aligned} & \infty \\ & \frac{s}{a} \\ & \frac{0}{x} \\ & 0 \\ & 1 \end{aligned}$ |  | $\frac{\infty}{\alpha}$ | $\begin{aligned} & 1 \\ & \frac{1}{2} \\ & \frac{a}{6} \\ & s \end{aligned}$ | $\begin{aligned} & \infty \\ & \mathbf{Z} \\ & \underset{山}{\sim} \end{aligned}$ | $\begin{array}{\|c} \underset{\alpha}{\alpha} \\ \frac{\alpha}{2} \\ \hline \mathbf{0} \end{array}$ | a |
| 5 | $\begin{aligned} & \text { TESTA PLUMBING, INC } \\ & 4244 \text { REDWOOD } \\ & \text { SAN RAFAEL, CA } 94903 \end{aligned}$ | $\begin{array}{r} 3201517 \\ 0.37 \mathrm{Ml} \\ \mathrm{NE} \end{array}$ |  |  |  |  |  |  | $x$ |  |  |  |  |  |  |  | － |  |  |  |
| 5 | ```FAIRCHILD CAMERA INSTRUMENT 4300 REDWOOD HWY SAN RAFAEL, CA 94903``` | $\begin{array}{r} 147438 \\ 0.40 \mathrm{MI} \\ \mathrm{NE} \end{array}$ |  | X |  | X |  | X | X |  |  | X | X |  | － |  |  |  | － |  |
| 6 | KAISER MEDICAL CENTER 99 MONTICELLO SAN RAFAEL，CA 94903 | $\begin{array}{r} 3199375 \\ 0.40 \mathrm{MI} \\ \mathrm{SW} \end{array}$ |  |  |  |  |  |  | X |  |  |  |  |  |  |  | － |  |  |  |


| $\underset{\text { MAP }}{\text { MD }}$ | SITES IN THE SURROUNDING AREA （within 1／2－1 mile） |  | A |  |  |  |  | B |  |  |  |  |  | C |  |  | D |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | $\stackrel{9}{6}$ | d | $\underset{\sim}{1}$ | 圌 |  |  | $\begin{array}{\|c} \underset{\sim}{w} \\ \underset{u}{u} \\ \underset{\sim}{\alpha} \\ \mathbf{O} \\ \hline \end{array}$ | $\begin{aligned} & n \\ & \stackrel{y}{a} \\ & 0 \\ & \frac{x}{x} \\ & 0 \\ & 1 \end{aligned}$ |  | $\frac{\square}{\sim}$ |  | 足 |  |
| No Records Found |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |



## SITE ASSESSMENT PLUS REPORT

## DETAILS

| PROPERTY AND THE ADJACENT AREA (within $1 / 8$ mile) |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{array}{\|l\|} \hline \text { VISTA } \\ \text { Address*: } \end{array}$ |  | OIL SS\# 4774 <br> L PRESIDIO <br> AFAEL, CA 949 |  | VISTA <br> Distan <br> Plotte | \#: <br> /Direction: s: | $\frac{1253585}{\frac{0.00 \mathrm{MI} / \mathrm{NA}}{\text { Point }}}$ |
| STATE UST - State Underground Storage Tank I SRC\# 1612 |  |  |  | EPAIA | ncy ID: | N/A |
| Agency Address: SAME $\bar{A} \overline{A B O V E}$ <br> Underground Tanks: 4 <br> Aboveground Tanks: NOTREPORTED <br> Tanks Removed: NOTREPORTED |  |  |  |  |  |  |
| Tank ID: <br> Tank Cont <br> Tank Age: <br> Tank Size | nts: <br> Units): | 10 <br> UNLEADED GAS NOT REPORTED 4000 (GALLONS) | Tank Status: <br> Leak Monitoring: <br> Tank Piping: <br> Tank Material: |  | activean service UNKNOWN UNKNOWN bare steel |  |
| Tank ID: <br> Tank Cont <br> Tank Age: <br> Tank Size | nts: <br> Units): | 20 <br> UNLEADED GAS NOT REPORTED 5000 (GALLONS) | Tank Status: <br> Leak Monitoring: <br> Tank Piping: <br> Tank Material: |  | ACTIVEIN SERVICE UNKNOWN UNKNOWN bARE STEEL |  |
| Tank ID: <br> Tank Cont <br> Tank Age: <br> Tank Size | nts: <br> Units): | $3 U$ <br> UNLEADED GAS NOT REPORTED 6000 (GALLONS) | Tank Status: <br> Leak Monitoring: <br> Tank Piping: <br> Tank Material: |  | ACTIVEIN SERVICE UNKNOWN UNKNOWN bare steel |  |
| Tank ID: <br> Tank Con <br> Tank Age <br> Tank Size | nts: <br> Units): | 4 U <br> OIL(NOT SPECIFIED) NOT REPORTED 280 (GALLONS) | Tank Status: <br> Leak Monitoring: <br> Tank Piping: <br> Tank Material: |  | ACTIVEIN S UNKNOWN UNKNOWN bARE STEE | RVVICE |



PROPERTY AND THE ADJACENT AREA (within $1 / 8$ mile) CONT.


| VISTA Address*: | 93553 CHEVRON949 DEL PRESIDIOSAN RAFAEL, CA 94903 |  |  | VISTA | \#: <br> /Direction: <br> as: | $\frac{932624}{\frac{<0.01 \mathrm{MI}}{\text { Point }}}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| STATE UST - State Underground Storage Tank / SRC\#1612 |  |  |  | EPA | ency ID: | N/A |
| $\begin{aligned} & \text { Agency Address: } \\ & \text { Underground Tanks: } \\ & \text { Aboveground Tanks: } \\ & \text { Tanks Removed: } \end{aligned}$ |  |  | SAME AS ABOVE 3 <br> NOT REPORTED NOT REPORTED |  |  |  |
| Tank ID: <br> Tank Contents: <br> Tank Age: <br> Tank Size (Units): |  | 10 <br> UNKNOWN NOT REPORTED 10000 (GALLONS) | Tank Status: <br> Leak Monitoring: <br> Tank Piping: <br> Tank Material: |  | ACTIVEIN UNKNOWN UNKNOWN OTHER DES | RVICE <br> RIPTIONS' |

FVISTA address includes enhanced city and ZIP.
For more information call VISTA Information Solutions, Inc. at 1-800-767-0403. Report ID: 214432-001 Version 2.6

| PROPERTY AND THE ADJACENT AREA (within $1 / 8$ mile) CONT. |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Tank ID: <br> Tank Contents: <br> Tank Age: <br> Tank Size (Units): | 20 <br> UNKNOWN NOT REPORTED 10000 (GALLONS) | Tank Status: <br> Leak Monitoring: <br> Tank Piping: <br> Tank Material: |  | ACTIVEIN SERVICE <br> UNKNOWN <br> UNKNOWN <br> OTHER DESCRIPTIONS |
| Tank ID: <br> Tank Contents: <br> Tank Age: <br> Tank Size (Units): | 34 <br> UNKNOWN NOT REPORTED 10000 (GALLONS) | Tank Status: <br> Leak Monitoring: <br> Tank Piping: <br> Tank Material: | ACTIVEIN SERVICE <br> UNKNOWN <br> UNKNOWN <br> OTHER DESCRIPTIONS |  |
| CORTESE / SRC\# 2298 |  |  | EPA/Agency ID: | N/A |
| Agency Address: CHEVRON <br>  949DELPRESIDIO BLVD <br> List Name: SAN RAFAEL,CA <br> Site ID: LEAKING TANK <br>  INV-ID21-000033 |  |  |  |  |
| STATE LUST - State Leaking Underground Storage Tank/SRC\# 4440 |  |  | EPA/Agency ID: | N/A |
| Agency Address: CHEVRON <br>  949 DEL PRESIOIO BLVD <br>  SAN RAFAEL.CA 94901 <br> Leak ID\#: $21-0166$ <br> Leak Date: 19870817 |  |  |  |  |
| Leak Report Date: |  |  |  |  |
| Remediation Start Date: |  |  |  |  |
| Leak Detection Method: |  |  |  |  |
| Leak Cause: <br> Leak Source: |  |  |  |  |
| Substance: |  |  |  |  |
| Remediation Event: |  |  |  |  |
| Remediation Event: |  |  |  |  |
| Remediation Status: |  |  |  |  |
| Media Affected: |  |  |  |  |
| Funding: |  |  |  |  |
| Description / Comment: |  | FILTER BROK | 15 GL SPILLED, NOT | T CASE |
| STATE LUST - State Leaking Underground Storage Tank / SRC\#4548 |  |  | EPAAgency ID: | N/A |
| Agency Address: CHEVRON <br>  949DEL PRESIDIO BLVD <br> Leak ID\#: SAN RAFAEL, CA 94901 <br>  $21-0166$ |  |  |  |  |
| Leak Report Date: |  |  |  |  |
| Substance: |  |  |  |  |
| Remediation Event: |  |  |  |  |
| Remediation Status: |  |  |  |  |
| Media Affected: |  |  |  |  |

*VISTA address includes enthanced city and ZIP.
For more information call VISTA Information Solutions, Inc. at 1-800-767-0403.

## PROPERTY AND THE ADJACENT AREA (within $1 / 8$ mile) CONT.


*VISTA address includes enhanced city and ZIP.
For more information call VISTA Information Solutions, Inc. at 1-800-767-0403. Report iD: 214432-001 Version 2.6

PROPERTY AND THE ADJACENT AREA (within $1 / 8$ mile) CONT.


${ }^{7}$ VISTA address includes enhianced city and ZIP.
For more information call VISTA Information Solutions, Inc. at 1-800-767-0403. Report ID: 214432-001 Version 2.6

| PROPERTY AND THE ADJACENT AREA (within $1 / 8$ mile) CONT. |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| STATE LUST - State Leaking Underground Storage Tank / SRC\#4440 |  |  | EPAAgency ID: | N/A |
| Agency Address: |  | SHELL 950 DEL PRESIDIO BLVD SAN RAFAEL. CA 94901. |  |  |
| Leak ID\#: |  | 21-0133 |  |  |
| Leak Date: |  | 19871105 |  |  |
| Leak Report Date: |  | 19871211 |  |  |
| Remediation Start Dat |  | 000001.$)$ |  |  |
|  |  | TC |  |  |
| Leak Cause: |  | $F$ |  |  |
| Leak Source: |  | $T$ |  |  |
| Substance: |  | 12035 |  |  |
| Remediation Event: |  | 0 |  |  |
| Remediation Event: |  | $E D$ |  |  |
| Remediation Status: |  | 38 |  |  |
| Priority: |  | 2 A 4 |  |  |
| Media Affected: |  | 0 |  |  |
| Funding: |  | $F$ |  |  |
| Description / Commen |  | NFA PROPOSED |  |  |
| STATE LUST - State Leaking Underground Storage Tank / SRC\# 4548 |  |  | EPA/Agency ID: | N/A |
| Agency Address: |  | SHELL 950 DEL PRESIDIO BLVD SAN RAFAEL, CA 94901 |  |  |
| Leak ID\#: |  | 21.0133 |  |  |
| Leak Report Date: |  | 19871211 |  |  |
| Substance: |  | WASTE OIL |  |  |
| Remediation Event: |  | $E D$ |  |  |
| Remediation Status: |  | PRELIMINARY SITE ASSES | MENT UNDERWAY |  |
| Media Affected: |  | OTHER GROUND WATER |  |  |
| VISTA Address*: | PAUL D SATHER M D RADIOLOGY OFFICE 750 LAS GALLINOS 101 SAN RAFAEL, CA 94903 |  | VISTA ID\#: | 3198457 |
|  |  |  | Distance/Direction: | $\begin{aligned} & 0.00 \mathrm{MI} / \mathrm{NA} \\ & \hline \text { Point } \end{aligned}$ |
| RCRA-SmGen - RCRA-Small Generator / SRC\# 4467 |  |  | EPA ID: | Point |
| Agency Address: |  | PAUL O SATHER RADIOLOGY OFFICE. 750 LAS GALLINAS NO 101 <br> SAN RAFAEL, CA 94903 |  |  |
|  |  |  |  |  |  |  |
| Generator Class: |  | Generates $100 \mathrm{~kg} . /$ month but less than 1000 kg ./month of non-acutely hazardous waste |  |  |
| VISTA Address*: | ARTS AUTO CARE 1005 NORTHGATE SAN RAFAEL, CA 94903 |  | VISTA ID\#: | 4036181 |
|  |  |  | Distance/Direction: | 0.01 MI / N |
| STATE UST - State Underground Storage Tank / SRC\# 1612 |  |  | PPA/tagency ID: | Point |
| Agency Address: Underground Tanks: Aboveground Tanks: Tanks Removed: |  | SAME AS ABOVE NA |  |  |
|  |  | 5 |  |  |
|  |  | NOT REPORTED |  |  |
|  |  | NOT REPORTED |  |  |

*VISTA address includes enhanced city and ZIP.
For more information call VISTA Information Solutions, Inc. at 1-800-767-0403. Report ID: 214432-001

PROPERTY AND THE ADJACENT AREA (within $1 / 8$ mile) CONT.


PROPERTY AND THE ADJACENT AREA (within $1 / 8$ mile) CONT.


| VISTA |
| :--- | :--- | :--- | :--- |
| Address: |


| PAYLESS 4372 |
| :--- | :--- | :--- | :--- |
| 1500 NORTHGATE MALL |
| SAN RAFAEL, CA 94903 |


| SITES IN THE SURROUNDING AREA (within $1 / 8-1 / 4$ mile) |
| :---: |
| No Records Found |

[^0]

[^1]SITES IN THE SURROUNDING AREA (within $1 / 4-1 / 2$ mile) CONT.


SITES IN THE SURROUNDING AREA (within $1 / 4-1 / 2$ mile) CONT.

| CORRACTS / SRC\# 4467 |  | IEPAID: | CAD009144619 |
| :---: | :---: | :---: | :---: |
| Agency Address: | SAME AS ABOVE |  |  |
| Prioritization Status: | MEDIUM |  |  |
| RCRA Facility Assessment Completed: | YES |  |  |
| Notice of Contamination: | NO |  |  |
| Determination of need For a RFI (RCRA Facility Investigation): | No |  |  |
| RFI Imposed: | No |  |  |
| RFI Workplan Notice of Deficiency Issued: | No |  |  |
| RFI Workplan Approved: | No |  |  |
| RFI Report Received: | NO |  |  |
| RFI Approved: | NO |  |  |
| No Further Corrective Action at this Time: | No |  |  |
| Stabilization Mesaures Evaluation: | No |  |  |
| CMS (Corrective Measure Study) imposition: | No |  |  |
| CMS Workplan Approved: | NO |  |  |
| CMS Report Received: | No |  |  |
| CMS Approved: | No |  |  |
| Date for Remedy Selection (CM imposed): | No |  |  |
| Corrective Measures Design Approved: | No |  |  |
| Corrective Measures Investigation Workplan Approved: | No |  |  |
| Certification of Remedy Completion: | No |  |  |
| Stabilization Measures Implementation: | No |  |  |
| Stabilization Measures Completed: | No |  |  |
| Corrective Action Process Termination: | No |  |  |
| RCRA-TSD CORRACTS / SRC\# 4467 |  | EPAID: | CAD009144619 |
| Agency Address: | SAME ASABOVE |  |  |
| Off-Site Waste Received: | NO |  |  |
| Land Disposal: | No |  |  |
| Incinerator: | NO |  |  |
| Storage/Treatment: | YES |  |  |
| SCL - State Equivalent CERCLIS List / SRC\# 4543 |  | Agency 10: | 21360001 |
| Agency Address: | FAIRCHILO DISCRETE DIVISION 4300 REDWOOD HIGHWAY <br> SAN RAFAEL, CA 94903 |  |  |
| Status: | UNKNOWN |  |  |
| Facility Type: | not available |  |  |
| Lead Agency: | UNKNOWN |  |  |
| State Status: | FORMER ANNUAL WORKPLAN SITE, REFERRED TO RWQCB |  |  |
| Pollutant 1: | UNKNOWN |  |  |
| Pollutant 2: | UNKNOWN |  |  |
| Pollutant 3: | UNKNOWN |  |  |

VISTA address includes enhanced city and ZIP.
For more information call VISTA Information Solutions, Inc. at 1-800-767-0403. Report ID: 214432-001 Date of Report: July 9, 1998 Version 2.6

SITES IN THE SURROUNDING AREA (within $1 / 4-1 / 2$ mile) CONT.
STATE LUST - State Leaking Underground Storage Tank / SRC\# EPA/Agency ID:



* VISTA address includes enhanced city and ZIP.

For more information call VISTA Information Solutions, Inc. at 1-800-767-0403. Report ID: 214432-001 Version 2.6

SITES IN THE SURROUNDING AREA (within $1 / 4-1 / 2$ mile) CONT.

| STATE LUST - State L 4548 | Storage Tank / SRC\# | EPA/Agency ID: | N/A |
| :---: | :---: | :---: | :---: |
| Agency Address: | KAISER MEDICAL CENTER 99 MONTECILLO RD SAN RAFAEL, CA 94901 .21-0199 |  |  |
| Leak ID\#: |  |  |  |
| Leak Report Date: | 19930618 |  |  |
| Substance: | DIESEL |  |  |
| Remediation Event: | NT |  |  |
| Remediation Status: | LEAK IS SUSPECTED AT SIGHT, BUT NOT CONF |  |  |
| Media Affected: | OTHER GROUND WATER |  |  |

## UNMAPPED SITES

| VISTA    <br> Address*: CECCOTI   <br>  NEXT TO GHILOTTI  VISTA ID\#: <br>  SAN RAFAEL, CA   |
| :--- |
| STATE SWLF - Solid Waste Landfill / SRC\# 4705 |
| Agency Address: |
| Facility Type: |
| Facility Status: |

## SITE ASSESSMENT PLUS REPORT

## DESCRIPTION OF DATABASES SEARCHED

## A) DATABASES SEARCHED TO 1 MILE

NPL
SRC\#: 4584

SPL
SRC\#: 4544

CORRACTS
SRC\#: 4467

VISTA conducts a database search to identify all sites within 1 mile of your property. The agency release date for NPL was April, 1998.

The National Priorities List (NPL) is the EPA's database of uncontrolled or abandoned hazardous waste sites identified for priority remedial actions under the Superfund program. A site must meet or surpass a predetermined hazard ranking system score, be chosen as a state's top priority site, or meet three specific criteria set jointly by the US Dept of Health and Human Services and the US EPA in order to become an NPL site.

VISTA conducts a database search to identify all sites within 1 mile of your property.
The agency release date for Calsites Database: Annual Workplan Sites was January, 1998.

This database is provided by the Cal. Environmental Protection Agency, Dept. of Toxic Substances Control. The agency may be contacted at: 916-323-3400.

VISTA conducts a database search to identify all sites within 1 mile of your property. The agency release date for HWDMS/RCRIS was February, 1998.

The EPA maintains this database of RCRA facilities which are undergoing "corrective action". A "corrective action order" is issued pursuant to RCRA Section 3008 (h) when there has been a release of hazardous waste or constituents into the environment from a RCRA facility. Corrective actions may be required beyond the facility's boundary and can be required regardless of when the release occurred, even if it predates RCRA.
B) DATABASES SEARCHED TO $1 / 2$ MILE

| CERCLIS <br> SRC\#: 4465 | VISTA conducts a database search to identify all sites within $1 / 2$ mile of your property. The agency release date for CERCLIS was February, 1998. <br> The CERCLIS List contains sites which are either proposed to or on the National Priorities List(NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL. The information on each site includes a history of all pre-remedial, remedial, removal and community relations activiies or events at the site, financial funding information for the events, and unrestricted enforcement activities. |
| :---: | :---: |
| Cal Cerclis SRC\#: 2462 | VISTA conducts a database search to identify all sites within $1 / 2$ mile of your property. The agency release date for Ca Cerclis w/Regional Utility Description was June, 1995. <br> This database is provided by the U.S. Environmental Protection Agency, Region 9. The agency may be contacted at: . These are regional utility descriptions for California CERCLIS sites. |
| NFRAP <br> SRC\#: 4466 | VISTA conducts a database search to identify all sites within $1 / 2$ mile of your property. The agency release date for CERCLIS-NFRAP was February, 1998. <br> NFRAP sites may be sites where, following an initial investigation, no contamination was found, contamination was removed quickly, or the contamination was not serious enough to require Federal Superfund action or NPL consideration |

This database is provided by the Department of Toxic Substances Control. The agency may be contacted at: .

The CalSites database includes both known and potential sites. Two- thirds of these sites have been classified, based on available information, as needing "No Further Action" (NFA) by the Department of Toxic Substances Control. The remaining sites are in various stages of review and remediation to determine if a problem exists at the site. Several hundred sites have been remediated and are considered certified. Some of these sites may be in long term operation and maintenance.

RCRA-TSD
SRC\#: 4467

SWLF
SRC\#: 4705

WMUDS
SRC\#: 3938

LUST
SRC\#: 4548

LUST
SRC\#: 4579

VISTA conducts a database search to identify all sites within $1 / 2$ mile of your property. The agency release date for HWDMS/RCRIS was February, 1998.

The EPA's Resource Conservation and Recovery Act (RCRA) Program identifies and tracks hazardous waste from the point of generation to the point of disposal. The RCRA Facilities database is a compilation by the EPA of facilities which report generation, storage, transportation, treatment or disposal of hazardous waste. RCRA TSDs are facilities which treat, store and/or dispose of hazardous waste.

VISTA conducts a database search to identify all sites within $1 / 2$ mile of your property. The agency release date for Ca Solid Waste Information System (SWIS) was April, 1998.

This database is provided by the Integrated Waste Management Board. The agency may be contacted at: 916-255-4021.

The California Solid Waste Information System (SWIS) database consists of both open as well as closed and inactive solid waste disposal facilities and transfer stations pursuant to the Solid Waste Management and Resource Recovery Act of 1972, Government Code Section 2.66790 (b). Generally, the California Integrated Waste Management Board learns of locations of disposal facilities through permit applications and from local enforcement agencies.

VISTA conducts a database search to identify all sites within $1 / 2$ mile of your property. The agency release date for Waste Management Unit Database System (WMUDS) was May, 1997.

This database is provided by the State Water Resources Control Board. The agency may be contacted at: 916-892-0323. This is used for program tracking and inventory of waste management units. This system contains information from the following eight main databases: Facility, Waste Management Unit, SWAT Program Information, SWAT Report Summary Information, Chapter 15 (formerly Subchapter 15), TPCA Program Information, RCRA Program Information, Closure Information; also some information from the WDS (Waste Discharge System). This database con

The WMUDS system also accesses information from the following databases from the Waste Discharger System (WDS): Inspections, Violations, and Enforcements. The sites contained in these databases are subject to the California Code of Regulations - Title 23. Waters.

VISTA conducts a database search to identify all sites within $1 / 2$ mile of your property. The agency release date for Lust Information System (LUSTIS) was February, 1998.

This database is provided by the California Environmental Protection Agency. The agency may be contacted at: 916-445-6532.

VISTA conducts a database search to identify all sites within $1 / 2$ mile of your property. The agency release date for Region \#2-North and South Bay SLIC Report was January, 1998.

This database is provided by the Regional Water Quality Control Board, Region \#2. The agency may be contacted at: 510-286-0838.

VISTA conducts a database search to identify all sites within $1 / 2$ mile of your property. The agency release date for Region \#2-San Francisco Bay Fuel Leaks List was December, 1997.

This database is provided by the Regional Water Quality Control Board, Region \#2. The agency may be contacted at: 510-286-0838.

VISTA conducts a database search to identify all sites within $1 / 2$ mile of your property. The agency release date for Cortese List-Hazardous Waste Substance Site List was February, 1995.

This database is provided by the Office of Environmental Protection, Office of Hazardous Materials. The agency may be contacted at: 916-445-6532.

The California Governor's Office of Planning and Research annually publishes a listing of polential and confirmed hazardous waste sites throughout the State of California under Government Code Section 65962.5. This database (CORTESE) is based on input from the following: (1)CALSITES-Department of Toxic Substances Control, Abandoned Sites Program Information Systems; (2)SARA Title III Section III Toxic Chemicals Release Inventory for 1987, 1988, 1989, and 1990; (3)FINDS; (4)HWIS-Department of Toxic Substances Control, Hazardous Waste Information System. Vista has not included one time generator facilities from Hazardous Waste information System. Vista has not included one time genera
(6)SWIS-Integrated Waste Management Control Board (solid waste facilities); (7)AGT25-Air Resources Board, dischargers of greater than 25 tons of criteria pollutants to the air; (8)A1025-Air Resources Board, dischargers of greater than 10 and less than 25 tons of criteria pollutants to the air; (9)LTANK-SWRCB Leaking Underground Storage Tanks; (10)UTANK-SWRCB Underground tanks reported to the SWEEPS systems; (11)IUR-Inventory Update Rule (Chemical Manufacturers); (12)WB-LF-Waste Board - Leaking Facility, site has known migration; (13)WDSE-Waste Discharge System - Enforcement Action; (14)DTSCD-Department of Toxic Substance Control Docket.

VISTA conducts a database search to identify all sites within $1 / 2$ mile of your property. The agency release date for Deed Restriction Properties Report was April, 1994.
This database is provided by the Department of Health Services-Land Use and Air Assessment. The agency may be contacted at: 916-323-3376. These are voluntary deed restriction agreements with owners of property who propose building residences, schools, hospitals, or day care centers on property that is "on or within 2,000 feet of a significant disposal of hazardous waste".

California has a statutory and administrative procedure under which the California Department of Health Services (DHS) may designate real property as either a "Hazardous Waste Property" or a "Border Zone Property" pursuant to California Health Safety Code Sections 25220-25241. Hazardous Waste Property is land at which hazardous waste has been deposited, creating a significant existing or potential hazard to public health and safety. A Border Zone Property is one within 2,000 feet of a hazardous waste deposit. Property within either category is restricted in use, unless a written variance is obtained from DHS. A Hazardous Waste Property designation results in a prohibition of new uses, other than a modification or expansion of an industrial or manufacturing facility on land previously owned by the facility prior to January 1 . 1981. A Border Zone Property designation results in prohibition of a variety of uses involving human habitation, hospitals, schools and day care center.

VISTA conducts a database search to identify all sites within $1 / 2$ mile of your property. The agency release date for Summary of Toxic Pits Cleanup Facilities was February, 1995.

This database is provided by the Water Quality Control Board, Division of Loans Grants. The agency may be contacted at: 916-227-4396.

For more information call VISTA Information Solutions, Inc. at 1-800-767-0403.

North Bay
SRC\#: 1718

VISTA conducts a database search to identify all sites within $1 / 2$ mile of your property. The agency release date for North Bay County Toxic List-Region \#2 Surface Spills was April, 1994.

This database is provided by the Regional Water Quality Control Board, Region \#2. The agency may be contacted at: .

## C) DATABASES SEARCHED TO 1/4 MILE

RCRA-Viols/Enf VISTA conducts a database search to identify all sites within $1 / 4$ mile of your property. The agency release date for HWDMS/RCRIS was February, 1998.

The EPA's Resource Conservation and Recovery Act (RCRA) Program identifies and tracks hazardous waste from the point of generation to the point of disposal. The RCRA Facilities database is a compilation by the EPA of facilities which report generation, storage; transportation, treatment or disposal of hazardous waste. RCRA Violators are facilities which have been cited for RCRA Violations at least once since 1980. RCRA Enforcements are enforcement actions taken against RCRA violators.

UST's
SRC\#: 1612

AST's
SRC\#: 4320

SRC\#: 3716

VISTA conducts a database search to identify all sites within $1 / 4$ mile of your property. The agency release date for Underground Storage Tank Registrations Database was January, 1994.

This database is provided by the State Water Resources Control Board, Office of Underground Storage Tanks. The agency may be contacted at: 916-227-4337; Caution-Many states do not require registration of heating oil tanks, especially those used for residential purposes.

VISTA conducts a database search to identify all sites within $1 / 4$ mile of your property. The agency release date for Aboveground Storage Tank Database was December, 1997. This database is provided by the State Water Resources Control Board. The agency may be
contacted at: $916-227-4364$ contacted at: 916-227-4364.

VISTA conducts a database search to identify all sites within $1 / 4$ mile of your property. The agency release date for TRIS was December, 1996.

Section 313 of the Emergency Planning and Community Right-to-Know Act (also known as SARA Title III) of 1986 requires the EPA to establish an inventory of Toxic Chemicals emissions from certain facilities (Toxic Release Inventory System). Facilities subject to this reporting are required to complete a Toxic Chemical Release Form(Form R) for specified
chemicals.

## D) DATABASES SEARCHED TO $1 / 8$ MILE

ERNS
SRC\#: 4583

VISTA conducts a database search to identify all sites within $1 / 8$ mile of your property. The agency release date for was January, 1998.

The Emergency Response Notification System (ERNS) is a national database used to collect information on reported releases of oil and hazardous substances. The database contains information from spill reports made to federal authorities including the EPA, the US Coast Guard, the National Response Center and the Department of transportation. A search of the database records for the period October 1986 through January 1998 revealed information regarding reported spills of oil or hazardous substances in the stated area.

RCRA-LgGen SRC\#: 4467

RCRA-SmGen SRC\#: 4467

SPILL
SRC\#: 161

SPILL
SRC\#: 4642

VISTA conducts a database search to identify all sites within $1 / 8$ mile of your property The agency release date for HWDMSIRCRIS was February, 1998.

The EPA's Resource Conservation and Recovery Act (RCRA) Program identifies and tracks hazardous waste from the point of generation to the point of disposal. The RCRA Facilities database is a compilation by the EPA of facilities which report generation, storage, transportation, treatment or disposal of hazardous waste. RCRA Large Generators are acilities which generate at least 1000 kg ./month of non-acutely hazardous waste ( or 1 $\mathrm{kg} . /$ month of acutely hazardous waste).

VISTA conducts a database search to identify all sites within $1 / 8$ mile of your property. The agency release date for HWDMS/RCRIS was February, 1998.

The EPA's Resource Conservation and Recovery Act (RCRA) Program identifies and tracks hazardous waste from the point of generation to the point of disposal. The RCRA Facilities database is a compilation by the EPA of facilities which report generation, storage, transportation, treatment or disposal of hazardous waste. RCRA Small and Very Small generators are facilities which generate less than $1000 \mathrm{~kg} . / \mathrm{month}$ of non-acutely hazardous waste.

VISTA conducts a database search to identify all sites within $1 / 8$ mile of your property.
The agency release date for California Hazardous Materials Incident Report was December, 1990.

This database is provided by the Office of Emergency Services. The agency may be contacted at: .

VISTA conducts a database search to identify all sites within $1 / 8$ mile of your property. The agency release date for Region \#1-Active Toxic Site Investigations-Spills was March, 1998.

This database is provided by the Regional Water Quality Control Board, Region \#1 (North Coast Region). The agency may be contacted at: 707-576-2220.


## Appendix B

## Photograph Log







SITE: Northgate @ Las Galinas, San Rafael, CA
PROJECTH: SF075-050

## IT Corporation

757 Arnold Drive, Suite D
Martinez, CA 94553-6526
Tel. 925.370 3990
Fax. 925.370.3991

A Member of The IT Group

March 23, 1999

Captain Bradley Mark<br>City of San Rafael Fire Department<br>Hazardous Materials Division<br>1039 C Street<br>San Rafael, CA 94901

Subject: Request for Closure Sears, Roebuck and Co. Automotive Center No. 1528 9000 Northgate Mall San Rafael, California

## Dear Captain Mark:

IT Corporation (formerly Fluor Daniel GTI), on behalf of Sears, Roebuck and Co. (Sears), submits this information to substantiate no further action at the subject site. See attachment 1 , figure 1 for the site location, figure 2 for a plot plan showing existing site features, figures 3 and 4 for soil analytical results and their respective locations. Analytical results are provided in attachment 2, and include tables 1, 2, and 3, with laboratory data. Analytical laboratory results are provided in attachment 3. The Underground Storage Tank Closure Review Form is provided in attachment 4, and waste removal documentation is provided in attachment 5.

Closure is requested on the basis of:

- Hydrocarbon source removal completed four years ago: several underground storage tanks (USTs) removed containing gasoline, used-oil, and motor oil. Product lines and fuel dispenser islands were removed between November 29, and December 1,1994 as described in the Dispenser Island and Product Line Removal Report for Sears Store 1528, dated July 1, 1996 (Fluor Daniel GTI, 1996)
- Approximately 32 cubic yards of hydrocarbon-impacted, soil was removed from the site in May 1995.
- Original concentrations of compounds detected at a maximum depth of 4 feet below grade (bg).
m Highest concentrations of compounds originally reported in excavated soil removed from site.
m Impacted soil is within the upper 3 to 4 feet of the subsurface and attenuates with increased depths.
- Site remains covered with asphalt, which prevents surface infiltration and flushing of hydrocarbons in soil into groundwater

Based on available site information, IT Corporation proposes that this site meets State Water Resources Control Board criteria for closure as low-risk. Site closure concurrence is therefore requested of the San Rafael Fire Department. Attached please find a UST closure request form (based on Environmental Protection Agency [EPA] format).

## GEOLOGY AND HYDROGEOLOGY

According to the visual observations during excavation, soil types at the site consist primarily of 4 to 6 inches of gravels over a gravelly, moist clay mixture, to a depth of 4 feet, the maximum depth explored. IT Corporation encountered non-native sands in pipe trenches and immediately beneath fuel islands. Site-specific lithology cannot be determined as the maximum depth explored was 4 feet below grade. Groundwater was not encountered during excavation.

## CLOSURE GOALS

In alignment with current State UST Reimbursement Fund policies, the goals of hydrocarbon remediation at this site include: 1) removal of the primary source of the hydrocarbon-impaction (USTs), removal of product lines, motor and used oil lines, and fuel dispensers. 2) overexcavation and removal of impacted soil to off-site facility for thermal treatment 3) Delineation of plume migration.

## Hydrocarbon Source Removal

Information provided by Sears indicates two USTs containing gasoline, one UST containing used-oil, an unknown number of motor oil USTs and the product dispensers were removed during demolition activity prior to 1994 The exact dates of the UST removal are not known IT Corporation was not supplied with additional information relating to the UST removal and is not aware of any other subsurface investigations, current or other conducted at this site

Demolition and removal of the dispenser islands and product lines took place between November 29, and December 1, 1994 (Fluor Daniel GTI, July 1996). The dispenser islands, gasoline product lines, vent lines, motor oil supply lines, and used-oil lines were removed by Norm Wilson and Sons, Inc., Paramount, California. Soil samples were collected beneath the dispenser islands, along the product
line trenches and lateral and vertical extent of the excavation to characterize the stockpiled soil for disposal under the direction of the San Rafael Fire Department (SRFD) in San Rafael California

A total of 17 soil samples were collected from underneath the dispenser islands, gasoline product lines, vent lines, and the lateral and vertical extent of the excavation at depths of 2 to 4 feet beneath the piping on November 29,1994. Soil samples collected were analyzed for:

- total petroleum hydrocarbons as gasoline, TPH-g; (EPA Method 8015 Modified)
- benzene, toluene, ethylbenzene, and total xylenes, BTEX; (EPA Method 8020)
- total lead, (EPA Method 6010)

Five soil samples were collected from underneath the used-oil lines, oil supply lines, and motor oil supply lines at 5 feet below the piping. The soil samples were analyzed for:

- total petroleum hydrocarbons as gasoline, TPH-g; (EPA Method 8015 Modified)
- total petroleum hydrocarbons as diesel, TPH-d; (EPA Method 8015 Modified)
- total recoverable petroleum hydrocarbons, TRPH; (EPA Method 418.1)
- volatile organic compounds, VOCs; (EPA Methods 8240)
- California Assessment Manual (CAM) for metals; (EPA 6000/7000 series analysis)

Concentrations of hydrocarbons were not detected in any of the soil samples from the dispenser island, product line and main trench areas. Concentrations of total lead were detected in 16 of the 17 soil samples from the dispenser island and product line and main trench areas, with a maximum of 11 milligrams per kilogram ( $\mathrm{mg} / \mathrm{kg}$ ) total lead reported in sample number BTE- $1 / 3$ from fuel island $B$ at 3 feet bg .

No concentrations of hydrocarbons or VOCs were reported in the samples collected from the dispenser Island area (table 1). Concentrations of TRPH were detected in three of the five soil samples from the motor and used oil product line areas, with a maximum of $19 \mathrm{mg} / \mathrm{kg}$ in sample WO-2/4, at 4 feet bg from the used oil supply line area. CAM metals results indicated maximum concentrations of $210 \mathrm{mg} / \mathrm{kg}$ for total chromium in sample $\mathrm{NO}-3 / 5$ at 2 feet bg from the motor oil supply line area.

## Reduction of Residual Hydrocarbons

Currently there are no open excavations or construction projects at the site that would expose soil containing hydrocarbons. The site is covered with asphalt and concrete and there does not appear to be any potential risk of exposing the public to soil containing hydrocarbons.

## REQUEST FOR CLOSURE

In alignment with current SRFD policies, site closure is requested at this site. No additional work is planned at this site pending agency response to this request for closure.

Please contact Melissa Gossell at (925) 370-3990, extension 266 if you have questions or comments about this correspondence.

Sincerely,

IT CORPORATION
Submitted by:

## Nyorzell for IC.M. <br> Kevin Mcllvenna <br> Staff Environmental Scientist <br> c: Scott DeMuth, Sears <br> USA Petroleum File <br> Russ Zora, Central Files, Lenexa, KS <br> Project File

Attachments

1. Figures
2. Data Tables
3. Analytical Laboratory Reports
4. Underground Storage Tank Closure Review Form
5. Waste Removal Documentation

IT CORPORATION
Approved by:
reliDtosell

Melissa Gossell, R.E.A.
West Zone Project Manager

## Attachment 1

Figures





Attachment 2
Data Tables

TABLE 1
Former Dispenser Island Soil Analytical Results
Sears Store 1528, San Rafael, California
Sampled November 30, and December 1, 1994

| Gasoline Dispenser Island Samples |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Samples | Date | TPH-g | B | T | $E$ | $x$ | Total Lead |
| Island A soil samples |  |  |  |  |  |  |  |
| $\mid A-1 / 2$ | 12/01/94 | $<1$ | $<0.005$ | <0.005 | $<0.005$ | $<0.015$ | 9 |
| $\mid A-2 / 2$ | 12/01/94 | $<1$ | <0.005 | <0.005 | $<0.005$ | $<0.015$ | 8 |
| ATE-1/3 | 12/01/94 | $<1$ | $<0.005$ | $<0.005$ | $<0.005$ | $<0.015$ | 7 |
| ATE-2/4 | 12/01/94 | $<1$ | <0.005 | $<0.005$ | $<0.005$ | $<0.015$ | 8 |
| ATW-1/3 | 11/30/94 | $<1$ | $<0.005$ | $<0.005$ | $<0.005$ | $<0.015$ | 10 |
| ATW-2/3 | 11/30/94 | $<1$ | $<0.005$ | $<0.005$ | $<0.005$ | $<0.015$ | 6 |
| Island B Soil Samples |  |  |  |  |  |  |  |
| IB-1/2 | 12/01/94 | $<1$ | $<0.005$ | $<0.005$ | $<0.005$ | $<0.015$ | 9 |
| IB-2/2. | 12/01/94 | $<1$ | <0.005 | $<0.005$ | $<0.005$ | $<0.015$ | 10 |
| BTE-1/3 | 12/01/94 | $<1$ | <0.005 | $<0.005$ | $<0.005$ | $<0.015$ | 11 |
| BTE-2/3 | 12/01/94 | $<1$ | $<0.005$ | $<0.005$ | $<0.005$ | $<0.015$ | 10 |
| BTW-1/3 | 11/30/94 | $<1$ | $<0.005$ | $<0.005$ | $<0.005$ | $<0.015$ | 7 |
| BTW-2/3 | 11/30/94 | $<1$ | $<0.005$ | $<0.005$ | $<0.005$ | $<0.015$ | 9 |
| Main Trench Soil Samples |  |  |  |  |  |  |  |
| MT-3/3 | 11/30/94 | $<1$ | $<0.005$ | $<0.005$ | $<0.005$ | $<0.015$ | 9 |
| M'-4/4 | 11/30/94 | $<1$ | <0.005 | $<0,005$ | $<0.005$ | $<0.015$ | 8 |
| . MT-5/4 | 11/30/94 | $<1$ | $<0.005$ | <0n005 | $<0.005$ | <0.015 | $<5$ |
| MT-1/3 | 12/01/94 | $<1$ | $<0.005$ | $<0.005$ | $<0.005$ | $<0.015$ | 9 |
| MT-6/3 | 12/01/94 | $<1$ | $<0.005$ | <0.005 | $<0.005$ | $<0.015$ | 9 |

## Notes:

1) All results expressed in milligrams per kilogram
2) Total lead analyzed using EPA Method 6010
$\begin{aligned} \mathrm{TPH}-\mathrm{g}= & \text { total petroleum hydrocarbons as gasoline, } \mathrm{B}=\text { benzene, } \mathrm{T}=\text { toluene, } \mathrm{E}=\text { ethylbenzene, } \mathrm{X}=\text { total } \\ & \text { xylenes; analyzed using EPA Method } 8020\end{aligned}$

TABLE 2
Former Motor and Used Oil Product Line Soil Analytical Results
Sears Store 1528, San Rafael, California
Sampled November 30, and December 1, 1994

| Samples | Date | TRPH | TPH-g | TPH-d | Volatile Organics |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Used Oil Supply Line Soil Samples |  |  |  |  |  |  |
| WO-1/2 | $11 / 30 / 94$ | 7 | $<1$ | $<10$ | ND |  |
| WO-2/4 | $11 / 30 / 94$ | 19 | $<1$ | $<10$ | ND |  |
|  |  |  |  |  |  |  |
| Motor Oil Supply Line Soil Samples |  |  |  |  |  |  |
| NO-1/2 | $11 / 30 / 94$ | $<5$ | $<1$ | $<10$ | ND |  |
| NO-2/4 | $11 / 30 / 94$ | 11 | $<1$ | $<10$ | ND |  |
| NO-3/5 | $11 / 30 / 94$ | $<5$ | $<10$ | $<10$ | ND |  |

## Notes:

1) All results expressed in milligrams per kilogram
2) Volatile organics analyzed using EPA Method 8240 A

TRPH $=$ total recoverable petroleum hydrocarbons; analyzed using EPA Method 3550/418.1
$\mathrm{TPH}-\mathrm{g}=$ total petroleum hydrocarbon as gasoline, $\mathrm{B}=$ benzene, $\mathrm{T}=$ toluene, $\mathrm{E}=$ ethylbenzene, $x=$ total
TPH-d $=$ total petroleum hydrocarbons as diesel; analyzed using EPA Method Modified 8015 <Number = below reported detection limits
$\mathrm{ND}=$ not detected

TABLE 3
Former Motor and Used Oil Product Line Soil CAM Metal Analytical Results
Sears Store 1528, San Rafael, California Sampled November 30, 1994

| Motor Oil/Oil Supply Samples |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Analyte | Date | WO-1/2 | WO-2/4 | NO-1/2 | NO-2/4 | NO-3/5 |
| Antimony | 11/30/94 | $<5$ | $<5$ | $<5$ | < 5 | $<5$ |
| Arsenic | 11/30/94 | 5.5 | 2.5 | 4.0 | 9.3 | 7.5 |
| Barium | 11/30/94 | 150 | 55 | 100 | 130 | 170 |
| Beryllium | 11/30/94 | 0.6 | $<0.5$ | $<0.5$ | $<0.5$ | 0.6 |
| Cadmium | 11/30/94 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| Chromium, total | 11/30/94 | 30 | 38 | 92 | 68 | 210 |
| Cobalt | 11/30/94 | 9 | 8 | 19 | 16 | 21 |
| Copper | 11/30/94 | 28 | 11 | 17 | 47 | 35 |
| L.ead | 11/30/94 | 8 | $<5$ | 6 | 6 | 8 |
| Mercury | 11/30/94 | $<0.1$ | $<0.1$ | $<0.1$ | 0.1 | 0.1 |
| Molybdenum | 11/30/94 | 1 | $<1$ | $<1$ | 1 | 1 |
| Nickel | 11/30/94 | 41 | 59 | 100 | 110 | 180 |
| Selenium | 11/30/94 | $<5$ | $<5$ | $<5$ | $<5$ | $<5$ |
| Silver | 11/30/94 | $<1$ | $<1$ | $<1$ | $<1$ | $<1$ |
| Thallium | 11/30/94 | $<5$ | $<5$ | $<5$ | $<5$ | $<5$ |
| Vanadium | 11/30/94 | 32 | 22 | 44 | 44 | 46 |
| Zinc | 11/30/94 | 58 | 34 | 35 | 69 | 70 |

## Notes:

1) All results expressed in milligrams per kilogram
2) Analyzed using EPA Methods 6010, 7060, and 7470
<Number $=$ Below reported detection limit

## Attachment 3

Analytical Laboratory Reports LABORATORIES, INC.

Eileen Brennan
Groundwater Technology, Inc.
275 South Temple, Suite 321
Salt Lake City, UT 84111

Enclosed please find the analytical results for samples received by GTEL Environmental Laboratories, Inc. on 11/30/94, under chain of custody records 30200 and 33586.
A formal Quality Assurance/Quality Control (QA/QC) program is maintained by GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria, unless otherwise stated in the footnotes. This report is to be reproduce only in full.
GTEL is certified by the California State Department of Health Services, Laboratory certification number E1075, to perform analyses for drinking water, wastewater, and hazardous waste materials according to EPA protocols.
If you have any questions concerning this analysis or if we can be of further assistance, please call our Customer Service Representative.

Sincerely, GTEL Environmental Laboratories, Inc.
Willie, inubide
for
Rashmi Shah
Laboratory Director

## ANALYTICAL RESULTS

Total Petroleum Hydrocarbons in Soil by Infrared Spectrometry ${ }^{1}$

EPA 3550 (Mod.)/EPA 418.1 (SM 5520 FC) ${ }^{2}$

| GTEL Sample Number | 08 | 09 | 10 | 11 |  |  |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Client Identification |  | WO-1/2 | WO-C | WO-2/4 | NO-1/2 |  |  |  |  |  |  |  |
| Date Sampled | $11 / 30 / 94$ | $11 / 30 / 94$ | $11 / 30 / 94$ | $11 / 30 / 94$ |  |  |  |  |  |  |  |  |
| Date Prepared | $12 / 01 / 94$ | $12 / 01 / 94$ | $12 / 01 / 94$ | $12 / 01 / 94$ |  |  |  |  |  |  |  |  |
| Date Analyzed | $12 / 01 / 94$ | $12 / 01 / 94$ | $12 / 01 / 94$ | $12 / 01 / 94$ |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Analyte |  |  |  |  |  |  |  | Limit, $\mathrm{mg} / \mathrm{Kg}$ | Concentration, $\mathrm{mg} / \mathrm{Kg}$ |  |  |  |
| Total Petroleum Hydrocarbons | 5 | 7 | 110 | 19 | $<5$ |  |  |  |  |  |  |  |
| Detection Limit Multiplier |  | 1 | 2.5 | 1 | 1 |  |  |  |  |  |  |  |

1. The sample is sonication extracted using a modification of EPA 3550. The extract is analyzed, as in EPA 418.1 (SM 5520 CF), to yield results reported as Total Petroleum Hydrocarbons. Results are reported on a wet weight basis.
2. Standard Methods for the Examination of Water and Wastewater, 17th ed., Arnerlcan Public Health Association, 1989.

## ANAL.YTICAL RESULTS

Total Petroleum Hydrocarbons in Soil by Infrared Spectrometry ${ }^{1}$

EPA 3550 (Mod.)/EPA 418.1 (SM 5520 FC) ${ }^{2}$

| GTEL Sample Number | 12 | 13 | 14 | 120194 <br> TPH |  |  |  |
| :--- | ---: | ---: | :---: | :---: | :---: | :---: | :---: |
| Client Identification | NO-2/4 | NO-C | NO-3/5 | METHOD <br> BLANK |  |  |  |
| Date Sampled |  | $11 / 30 / 94$ | $11 / 30 / 94$ | $11 / 30 / 94$ | - |  |  |
| Date Prepared | $12 / 01 / 94$ | $12 / 01 / 94$ | $12 / 01 / 94$ | $12 / 01 / 94$ |  |  |  |
| Date Analyzed | $12 / 01 / 94$ | $12 / 01 / 94$ | $12 / 01 / 94$ | $12 / 01 / 94$ |  |  |  |
|  |  |  |  |  |  |  |  |
| Analyte | Detection <br> Limit, $\mathrm{mg} / \mathrm{Kg}$ | Concentration, $\mathrm{mg} / \mathrm{Kg}$ |  |  |  |  |  |
| Total Petroleum Hydrocarbons | 5 | 11 | 26 | $<5$ | $<5$ |  |  |
| Detection Limit Multiplier |  | 1 | 1 | 1 | 1 |  |  |

1. The sample is sonication extracted using a modification of EPA 3550. The extract is analyzed, as in EPA 418.1 (SM 5520 CF ), to yield results reported as Total Petroleum Hydrocarbons. Results are reported on a wet weight basis.
2. Standard Methods for the Examination of Water and Wastewater, 17th ed., American Public Health Association, 1989.

## ANALYTICAL RESULTS

TPH as Diesel in Soil
Method: Modified EPA 8015a

| GTEL Sample Number |  | 08 | 09 | 10 | 11 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Client Identification |  | WO-1/2 | WO-C | WO-2/4 | NO-1/2 |
| Date Sampled |  | 11/30/94 | 11/30/94 | 11/30/94 | 11/30/94 |
| Date Extracted |  | 12/02/94 | 12/02/94 | 12/02/94 | 12/02/94 |
| Date Analyzed |  | 12/02/94 | 12/02/94 | 12/03/94 | 12/03/94 |
| Analyte | Detection Limit, mg/Kg | Concentration, mg/kg |  |  |  |
| TPH as diesel | 10 | <10 | $<10$ | $<10$ | <10 |
| Detection Limit Multiplier |  | 1 | 1 | 1 | 1 |
| OTP surrogate, \% recovery |  | 74.5 | 91.5 | 76.4 | 92.4 |


| GTEL Sample Number |  | 12 | 13 | 14 | $\begin{gathered} \mathrm{GCl} \\ 120294 \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Client Identification |  | NO-2/4 | NO/C | NO-3/5 | METHOD BLANK |
| Date Sampled |  | 11/30/94 | 11/30/94 | 11/30/94 | - |
| Date Extracted |  | 12/02/94 | 12/02/94 | 12/02/94 | 12/02/94 |
| Date Analyzed |  | 12/02/94 | 12/02/94 | 12/03/94 | 12/02/94 |
| Analyte | Detection Limit, mg/Kg | Concentration, mg/Kg |  |  |  |
| TPH as diesel | 10 | <10 | <10 | <10 | <10 |
| Detection Limit Multiplier |  | 1 | 1 | 1 | 1 |
| OTP surrogate, \% recovery |  | 93.3 | 67.5 | 74.0 | 106 |

a. O-Terphenyl surrogate recovery acceptability limits are $50-150 \%$. Test Methods for Evaluating Solid Waste, SW-846, 3rd edition, Rev, O, U.S. EPA, November, 1986.

| GTEL Client ID: | 020200025 |
| :--- | :--- |
| Login Number: | C4110454 |

Volatile Organics
Method: EPA 8020
Matrix: Solids


Wis.ivis 4
Kyso: $/ 4$


| Analyte | Reporting Limit | Units | Concentration:Wet Weight |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Benzene. | 0.005 | mg/49 | 4, 0,005 | \% 0,005. | , 0.005 | 4. 0.005 |
| Toluene | 0.005 | $\mathrm{mg} / \mathrm{kg}$ | $<0.005$ | $<0.005$ | $<0.005$ | < 0.005 |
| EthyIDenzene | 0.005 | mig $/ \mathrm{kg}$ | \% 0.005 | \% 0.005 | \% 0.005 | 4.0.005 |
| Xylenes (total) | 0.015 | $\mathrm{mg} / \mathrm{kg}$ | < 0.015 | $<0.015$ | $<0.015$ | $<0.015$ |
| THHOS GAS | 1.0 | $\mathrm{mg/kg}$ | \& 1.0 | \%. 10 | \%... 0 | \% .0 |
| BFB (Surrogate) | -- | \% | 96.9 | 86.5 | 66.2 | 85.2 |

## Notes:

D1lution Factor:
Dilution factor indicates the adjustments made for sample dilution.

## EPA 8020:

"Test Methods for Evaluating Solid Waste. Physical/Chenical Methods". SH-846. Third Edition including promulgated Update 1. Modification for TPH as gasoline as per Callfornia State Water Resources Board LUFT Manual protocols, May 1988 revision. Acceptability limits for recovery in the Bromofluorobenzene (BFB) surrogate is $60-1198$.

| GTEL Client ID: | 020200025 | ANALYTICAL RESULTS |
| :--- | :--- | :--- |
| Login Number: | C4110454 |  |
| Project ID (number): | 020200025 | Volatile Organics |
| Project ID (name): | Sears/\#1528/9000 Northgate Mall. San Rafael | Method: EPA 8020 |
|  |  | Matrix: |


Reporting
Linit
Analyte

## Notes:

## Dilution Factor :

Dilution factor indicates the adjustments made for sample dilution.

## EPA 8020:

"Test Methods for Evaluating Solid Waste. Physical/Chemical Methods". SW-846. Third Edition including pronulgated Update 1. . Modification for TpH as gasoline as per California State Water Resources Board LUFT Manalal protocols. May 1988 revision. Acceptability limits for recovery in the Bronofluorobenzene (BFB) surrogate is 60-119x.

| GTEL Client ID: | 020200025 | ANALYTICAL RESULTS |
| :--- | :--- | :--- |
| Login Number: | C4110454 |  |
| Project ID (number): | 020200025 |  |
| Project ID (name): | Sears/ $\# 1528 / 9000$ Northgate Mall. San Rafael |  |

Volatile Organics
Method: EPA 8015
Matrix: Solids


Reporting

| Analyte | Limit | Units | Concentration:Wet Weight |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TPH as Gasoline | 1.0 . | mg/kg | ~ 1.0 | <. 1.0 | \& 1.0 | \& 1.0 |
| BFB (surrogate) | -- | \% | 88.9 | 87.9 | 93.3 | 82.3 |

## Notes:

Dilution Factor:
Dilution factor indicates the adjustments made for sample dilution.

EPA 8015:
"Test Methods for Evaluating Solid Waste. Physical/Chenical Methods". SW-8s6. Third Edition Inciuding promulgated Update 1. . Modification for TPH as gasoline as per California State Water Resources Board LUFT Manual protocols. May 1988 revision. Acceptability limits for recovery in the Bromofluorobenzene (BFB) surrogate is $60-119 x$.

GTEL Concord, CA C4110454:1

Login Number: $\quad$ C4110454
Project ID (number): 020200025
Project ID (name): Sears/ $/ 1528 / 9000$ Northgate Mall. San Rafael

Volatile Organics
Method: EPA 8015
Matrix: Solfds


## Reporting

| Analyte | Limit | Units | Concentration:Wet Weight |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TPH as Gasoline | 1.0 | m9/k9 | \$1.4 | , \% 0 | \$1.0 | . |
| BFB (surrogate) | -- | \% | 85.0 | 90.6 | 87.9 | -- |

Notes:

## Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8015:
"Test Methods for Evaluating Solid Waste. Physical/Chemical Methods". SW-846. Third Edition including promulgated Update 1. "Modification for TPH as gasoline as per Callfornta State Water Resources Board LUFT Manual protocols. May 1988 revision. Acceptability limits for recovery in the Bromofluorobenzene (BFB) surrogate is $60-119$.

GTEL Concord. CA C4110454:2


QUALITY CONTROL RESULTS
Login Number: $\quad$ C4110454 C4110454
020200025

Volatile Organics Method: EPA 8020
Project ID (number): 020200025 Matrix:

Method Blank Results

|  | QC Batch No: Date Analyzed: | $\begin{aligned} & \text { All3094-1 } \\ & 30 \text {-NOV-94 } \end{aligned}$ |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Analyte |  | Method:EPA 8020 | Concentration: mg/kg |  |
| Berzene: |  | 40,0050 |  |  |
| Toluene |  | < 0.0050 |  |  |
| Ethylbenzene |  | \% 0.0050 |  |  |
| Xylenes (Total) |  | < 0.015 |  |  |
| PR as Gasoline |  | s. 1.0 |  | / |

## Notes:



que islands = all ND BTEX/gas
ENVIRONMENTAL LABORATORIES, INC.

Western Region
4080 Pike Lane, Suite C
Concord, CA 94520
(510) 685-7852
(800) 544-3422 Inside CA

FAX (510) 825-0720

## December 2, 1994

Eileen Brennan
Groundwater Technology, Inc.
275 S. Temple \#321
Salt Lake City, UT 84111

| RE: | GTEL Client ID: |  | 020200025 |
| :--- | :--- | :--- | :--- |
|  | Login Number: |  | C4120017 |
|  | Project ID (number): |  | 020200025 |
|  | Project ID (name): |  | Sears /1528/9000 Northgate Mall. San Rafael |

Dear Eileen Brennan:
Enclosed please find the analytical results for the samples received by GTEL Environmental Laboratories. Inc. on 12/01/94 under Chain-of-Custody Number (s) 33582.

A formal Quality Assurance/Quality Control (QA/QC) program is maintained by GTEL., which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria unless otherwise stated in the footnotes.

GTEL is certified by the Department of Health Service under Certification Number E1075.

If you have any questions regarding this analysis, or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,
GTEL Environmental Laboratories, Inc.
Eden Polluter


Rashmi Shah
Laboratory Director

GTEL Client ID: 020200025
Login Number: $\quad$ C4120017
ANALYTICAL RESULTS
Project ID (number): 020200025
Project ID (name): Sears/1528/9000 Northgate Mall. San Rafael
Volatile Organics
Method: EPA 8020
Matrix: Solids


| Analyte | Reporting Limit | Units | Concentration:Wet Weight |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Benzene:\%/ | 0.005 | mp/kg | \$0,005 | 4.0.005 | 40.005\% | \%0.005. |
| Toluene | 0.005 | $\mathrm{mg} / \mathrm{kg}$ | $<0.005$ | $<0.005$ | $<0.005$ | $<0.005$ |
| Ethylbenzene | 0.005 | mg/kg | \% 0.005 | 4.0,005 | \$0.005 | \& 0.005\% |
| Xylenes (total) | 0.015 | $\mathrm{mg} / \mathrm{kg}$ | $<0.015$ | $<0.015$ | <0.015 | $<0.015$ |
| TPH us CAS | 1.0 | molks | \%. 1.0 | \%.1.0. | \%1.0. | < 1.00 |
| BFB (Surrogate) | -- | \% | 89.3 | 89.0 | 84.9 | 91.0 |

## Notes:

Dilution Factor:
Dilution factor indicates the adjustments made for sample dilution.

EPA 8020:
"Test Methods for Evaluating Solid Waste. Physical/Chemical Methods". SW-846. Third Edition Including pronulgated Update 1. Modification for TPH as gasoline as per California State Water Resources Board LUFT Manual protocols. May 1988 revision. Acceptability limits for recovery in the Bromofluorobenzene (BFB) surrogate is 60-1198.

GTEL Concord, CA

| GTEL Client ID: | 020200025 |
| :--- | :--- |
| Login Number: | C4120017 |
| Project ID (number): | 020200025 |
| Project ID (name): | Sears $/ 1528 /$ |

analytical results
Volatile Organics Method: EPA 8020 Matrix: Solids


## Reporting

| Analyte | Limit | Units | Concentration:Wet Weight |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Benzene. | 0.005 | mg/kg | * 0,005 | ¢ 0.005 | \% 0.005. | \$0.005 |
| Toluene | 0.005 | $\mathrm{mg} / \mathrm{kg}$ | < 0.005 | $<0.005$ | $<0.005$ | $<0.005$ |
| Ethylbenzene | 0.005 | mos/kg | 4, 0.005 | \& 0.005 | \&0,005\% | \$0,005 |
| Xylenes (total) | 0.015 | $\mathrm{mg} / \mathrm{kg}$ | $<0.015$ | $<0.015$ | $<0.015$ | $<0.015$ |
| TPH as GAS | 1.0 | molkg | \&, 0 | \& 1.0 | \%. 1.0 | \& 1.0 |
| BFB (Surrogate) | -- | * | 72.1 | 62.9 | 82.4 | 83.2 |

## Notes:

Dllution Factor:
Dilution factor indicates the adjustments made for sample dilution.

EPA 8020:
"Test Methods for Evaluating Solid Waste. Physical/Chemical Methods". SW-846. Third Edition including promulgated Update 1. Modification for TPH as gasoline as per California State Water Resources Board LUFT Manual protocols. May 1988 revision. Acceptablity limits for recovery in the Bronofluorobenzene (BFB) surrogate 15 60-119x.

| GTEL Client ID: | 020200025 | ANALYTICAL RESULTS |
| :--- | :--- | :--- |

Project ID (number): 020200025
Project ID (name): Sears $1528 / 9000$ Northgate Mall. San Rafael

Volatile Organics
Method: EPA 8020
Matrix: Solids


Reporting

| Analyte | Limit | Units | Concentration:Wet Weight |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Benzene | 0.005 | mp/ks | + 0,005 | s. 0.005 | . | - |
| Toluene | 0.005 | $\mathrm{mg} / \mathrm{kg}$ | $<0.005$ | $<0.005$ | -- | -- |
| Ethylbenzene | 0.005 | mopts | \& 0.005 | < 0.005 | \% | . |
| Xylenes (total) | 0.015 | $\mathrm{mg} / \mathrm{kg}$ | $<0.015$ | $<0.015$ | -- | -- |
| THIHS GAS | 1.0 | mg/kg | \& 1.0 | \& 1.0 | - | . |
| BFB (Surrogate) | -- | \% | 90.5 | 84.1 | $\cdots$ | -- |

## Notes:

D1lution Factor:
Dllution factor indicates the adjustments made for sample dilution.

## EPA 8020:

-Test Methods for Evaluating Solid Waste. Physical/Chemical Methods". SW-846. Third Edition including promulgated Update 1. Madification for TPH as gasoline as per Callfornia State Water Resources Board LUFT Manual protocols. May 1988 revision. Acceptability limits for recovery in the Bromofluorobenzene (BFB) surrogate is 60-119\%.


ENVIRONMENTAL LABORATORIES, INC

Client Number: 020200025<br>total Pb Project ID: Sears 1528 9900 Northgate San Rafael<br>Work Order Number: C4-12-0018

Western Region
4080 Pike Lane, Suite C
Concord, CA 94520
(510) 685-7852
(800) 544-3422 Inside CA

FAX (510) 825-0720
December 13, 1994

## Eileen Brennan

Groundwater Technology, Inc.
275 South Temple, Suite 321
Salt Lake City, UT 84111

Enclosed please find the analytical results for samples received by GTEL Environmental Laboratories, Inc. on 12/01/94, under chain of custody record 33582.
A formal Quality Assurance/Quality Control (QA/QC) program is maintained by GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/ QC criteria, unless otherwise stated in the footnotes. This report is to be reproduce only in full.
GTEL is certified by the California State Department of Health Services, Laboratory certification number E1075, to perform analyses for drinking water, wastewater, and hazardous waste materials according to EPA protocols.
If you have any questions concerning this analysis or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,
GTEL Environmental Laboratories, Inc.



For)
Rashmi Shah
Laboratory Director

## ANALYTICAL RESULTS

## Lead in Soil

## EPA Method 6010a

a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Sample preparation by Method 3050. Results reported on a wet weight basis.

| GTEL Sample Number |  | 01 | 02 | 03 | 04 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Client Identification |  | MT $1 / 3$ | MT 6/3 | IA 1/2 | IA 2/2 |
| Date Sampled |  | 12/01/94 | 12/01/94 | 12/01/94 | 12/01/94 |
| Date Prepared |  | 12/02/94 | 12/02/94 | 12/02/94 | 12/02/94 |
| Date Analyzed |  | 12/06/94 | 12/06/94 | 12/06/94 | 12/06/94 |
| Analyte | Detection Limit, $\mathrm{mg} / \mathrm{Kg}$ | Concentration, mg/Kg |  |  |  |
| Lead, total | 5 | 9 | 9 | 9 | 8 |
| Detection Limit Multiplier |  | 1 | 1 | 1 | 1 |


| GTEL Sample Number | 05 | 06 | 07 | 08 |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Client Identification |  | $\mathrm{IB} 1 / 2$ | $\mathrm{IB} 2 / 2$ | $\mathrm{BTE} 1 / 3$ | $\mathrm{BTE} 2 / 3$ |  |  |
| Date Sampled | $12 / 01 / 94$ | $12 / 01 / 94$ | $12 / 01 / 94$ | $12 / 01 / 94$ |  |  |  |
| Date Prepared | $12 / 02 / 94$ | $12 / 02 / 94$ | $12 / 02 / 94$ | $12 / 02 / 94$ |  |  |  |
| Date Analyzed | $12 / 06 / 94$ | $12 / 06 / 94$ | $12 / 06 / 94$ | $12 / 06 / 94$ |  |  |  |
|  |  |  |  |  |  |  |  |
| Analyte | Detection <br> Limit, $\mathrm{mg} / \mathrm{Kg}$ | Concentration, $\mathrm{mg} / \mathrm{Kg}$ |  |  |  |  |  |
| Lead, total | 5 | 9 | 10 | 11 | 10 |  |  |
| Detection Limit Multiplier |  | 1 | 1 | 1 | 1 |  |  |

## ANALYTICAL RESULTS

## Lead in Soil

## EPA Method 6010a

a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Sample preparation by Method 3050 . Results reported on a wet weight basis.

| GTEL Sample Number | 09 | 10 | 120294 <br> MET |  |  |  |  |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Client Identification | ATE 1/3 | ATE 2/4 | METHOD <br> BLANK | . |  |  |  |  |  |  |  |  |  |
| Date Sampled | $12 / 01 / 94$ | $12 / 01 / 94$ | - |  |  |  |  |  |  |  |  |  |  |
| Date Prepared | $12 / 02 / 94$ | $12 / 02 / 94$ | $12 / 02 / 94$ |  |  |  |  |  |  |  |  |  |  |
| Date Analyzed | $12 / 06 / 94$ | $12 / 06 / 94$ | $12 / 06 / 94$ |  |  |  |  |  |  |  |  |  |  |
| Analyte |  |  |  |  |  |  |  | Detection <br> Limit, $\mathrm{mg} / \mathrm{Kg}$ | Concentration, $\mathrm{mg} / \mathrm{Kg}$ |  |  |  |  |
| Lead, total | 5 | 7 | 8 | $<5$ |  |  |  |  |  |  |  |  |  |
| Detection Limit Multiplier |  | 1 | 1 | 1 |  |  |  |  |  |  |  |  |  |

ENVIRONMENTAL LABORATORIES, INC.

Northwest Region
4080-C Pike Lane
Concord, CA 94520
(510) 685-7852
(800) 544-3422 from inside California
(800) 423-7143 from outside California
(510) 825-0720 (FAX)

December 13, 1994

## Eileen Brennan

Groundwater Technology, Inc.
275 South Temple, Suite 321
Salt Lake City, UT 84111

Enclosed please find the analytical results for samples received by GTEL Environmental Laboratories, Inc. on 12/01/94, under chain of custody record 33111 and 33113.
A formal Quality Assurance/Quality Control (QA/QC) program is maintained by GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria, unless otherwise stated in the footnotes. This report is to be reproduce only in full.
GTEL is certified by the California State Department of Health Services, Laboratory certification number E1075, to perform analyses for drinking water, wastewater, and hazardous waste materials according to EPA protocols.
If you have any questions concerning this analysis or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,
GTEL Environmental Laboratories, Inc.

Cum


Rashmi Shah
Laboratory Director

## ANALYTICAL RESULTS

Volatile Organics in Soil
EPA Method 8240Aa

| GTEL Sample Number |  | 08 | 09 | 10 | 11 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Client Identification |  | WO-1/2 | WO-C | WO-2/4 | NO-1/2 |
| Date Sampled |  | 11/30/94 | 11/30/94 | 11/30/94 | 11/30/94 |
| Date Analyzed |  | 12/05/94 | 12/05/94 | 12/05/94 | 12/06/94 |
| Analyte | Detection Limit, ug/Kg | Concentration, ug/Kg |  |  |  |
| Chloromethane | 10 | $<10$ | $<10$ | $<10$ | $<10$ |
| Bromomethane | 10 | $<10$ | $<10$ | $<10$ | $<10$ |
| Vinyl chloride | 10 | $<10$ | $<10$ | $<10$ | <10 |
| Chloroethane | 10 | $<10$ | $<10$ | $<10$ | $<10$ |
| Methylene chloride | 5 | <5 | <5 | <5 | <5 |
| Acetone | 50 | <50 | <50 | <50 | <50 |
| Carbon disulfide | 5 | <5 | <5 | <5 | <5 |
| 1,1-Dichloroethene | 5 | <5 | <5 | <5 | <5 |
| 1,1-Dichloroethane | 5 | $<5$ | $<5$ | $<5$ | <5 |
| 1,2-Dichloroethene, total | 5 | <5 | <5 | <5 | <5 |
| Chloroform | 5 | <5 | <5 | <5 | <5 |
| 1,2-Dichloroethane | 5 | $<5$ | <5 | <5 | <5 |
| 2-Butanone | 20 | $<20$ | $<20$ | <20 | <20 |
| 1,1,1-Trichloroethane | 5 | <5 | <5 | <5 | $<5$ |
| Carbon tetrachloride | 5 | <5 | <5 | <5 | <5 |
| Vinyl acetate | 50 | $<50$ | <50 | <50 | <50 |
| Bromodichloromethane | 5 | <5 | $<5$ | $<5$ | $<5$ |
| 1,2-Dichloropropane | 5 | $<5$ | <5 | <5 | <5 |
| cis-1,3-Dichloropropene | 5 | <5 | <5 | <5 | <5 |
| Trichloroethene | 5 | <5 | <5 | <5 | $<5$ |
| Dibromochloromethane | 5 | $<5$ | <5 | <5 | <5 |
| 1,1,2-Trichloroethane | 5 | $<5$ | $<5$ | <5 | <5 |
| Benzene | 5 | $<5$ | $<5$ | <5 | $<5$ |

a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, including Update 1, US EPA July 1992 (method modified for additional compounds). Results reported on a wet weight basis.

## ANALYTICAL RESULTS

Volatile Organics in Soil
EPA Method 8240Aa

| GTEL Sample Number |  | 08 | 09 | 10 | 11 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Client Identification |  | WO-1/2 | WO-C | WO-2/4 | NO-1/2 |
| Date Sampled |  | 11/30/94 | 11/30/94 | 11/30/94 | 11/30/94 |
| Date Analyzed |  | 12/05/94 | 12/05/94 | 12/05/94 | 12/06/94 |
| Analyte | Detection Limit, ug/Kg | Concentration, $\mathrm{ug} / \mathrm{Kg}$ |  |  |  |
| trans-1,3-Dichloropropene | 5 | <5 | <5 | <5 | <5 |
| 2-Chloroethylvinyl ether | 10 | $<10$ | $<10$ | $<10$ | <10 |
| Bromoform | 5 | <5 | <5 | <5 | <5 |
| 4-Methyl-2-pentanone | 20 | $<20$ | $<20$ | <20 | <20 |
| 2-Hexanone | 20 | <20 | <20 | <20 | $<20$ |
| Tetrachloroethene | 5 | <5 | $<5$ | $<5$ | <5 |
| 1,1,2,2-Tetrachloroethane | 5 | $<5$ | $<5$ | <5 | $<5$ |
| Toluene | 5 | <5 | <5 | $<5$ | $<5$ |
| Chlorobenzene | 5 | $<5$ | <5 | <5 | <5 |
| Ethylbenzene | 5 | $<5$ | <5 | <5 | <5 |
| Styrene | 5 | <5 | <5 | <5 | <5 |
| 1,2-Dichlorobenzene | 10 | <10 | $<10$ | <10 | $<10$ |
| 1,3-Dichlorobenzene | 10 | $<10$ | $<10$ | <10 | <10 |
| 1,4-Dichlorobenzene | 10 | <10 | <10 | $<10$ | <10 |
| Xylene, total | 10 | $<10$ | <10 | <10 | - <10 |
| Trichlorofluoromethane | 5 | <5 | <5 | <5 | <5 |
| Detection Limit Multiplier |  | 1 | 1 | 1 | 1 |
| DCE surrogate, \% recovery |  | 92.5 | 95.8 | 98.1 | 95.9 |
| TOL surrogate, \% recovery |  | 101 | 110 | 107 | 110 |
| BFB surrogate, \% recovery |  | 106 | 98.9 | 101 | 92.4 |

a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, including Update 1, US EPA July 1992 (method modified for additional compounds). Results reported on a wet weight basls.

## ANALYTICAL. RESULTS

Volatile Organics in Soil
EPA Method 8240Aa

| GTEL Sample Number |  | 12 | 13 | 14 | $\begin{gathered} 120594 \\ \text { MSC } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Client Identification |  | NO-2/4 | NO/C | NO-3/5 | METHOD BLANK |
| Date Sampled |  | 11/30/94 | 11/30/94 | 11/30/94 | -- |
| Date Analyzed |  | 12/06/94 | 12/06/94 | 12/05/94 | 12/05/94 |
| Analyte | $\begin{aligned} & \text { Detection } \\ & \text { Limit, ug/Kg } \end{aligned}$ | Concentration, ug/Kg |  |  |  |
| Chloromethane | 10 | $<10$ | $<10$ | $<10$ | $<10$ |
| Bromomethane | 10 | $<10$ | $<10$ | $<10$ | $<10$ |
| Vinyl chloride | 10 | $<10$ | $<10$ | $<10$ | $<10$ |
| Chloroethane | 10 | $<10$ | $<10$ | $<10$ | $<10$ |
| Methylene chloride | 5 | <5 | <5 | $<5$ | <5 |
| Acetone | 50 | $<50$ | $<50$ | $<50$ | <50 |
| Carbon disulfide | 5 | <5 | <5 | <5 | <5 |
| 1,1-Dichloroethene | 5 | $<5$ | <5 | <5 | <5 |
| 1,1-Dichloroethane | 5 | $<5$ | $<5$ | <5 | <5 |
| 1,2-Dichloroethene, total | 5 | <5 | <5 | <5 | <5 |
| Chloroform | 5 | <5 | $<5$ | <5 | <5 |
| 1,2-Dichloroethane | 5 | $<5$ | <5 | <5 | <5 |
| 2-Butanone | 20 | $<20$ | $<20$ | $<20$ | <20 |
| 1,1,1-Trichloroethane | 5 | $<5$ | $<5$ | <5 | $<5$ |
| Carbon tetrachloride | 5 | $<5$ | <5 | <5 | <5 |
| Vinyl acetate | 50 | $<50$ | $<50$ | <50 | <50 |
| Bromodichloromethane | 5 | $<5$ | <5 | <5 | <5 |
| 1,2-Dichloropropane | 5 | $<5$ | $<5$ | $<5$ | <5 |
| cis-1,3-Dichloropropene | 5 | <5 | $<5$ | <5 | <5 |
| Trichloroethene | 5 | $<5$ | $<5$ | <5 | $<5$ |
| Dibromochloromethane | 5 | $<5$ | <5 | <5 | <5 |
| 1,1,2-Trichloroethane | 5 | $<5$ | $<5$ | $<5$ | $<5$ |
| Benzene | 5 | $<5$ | $<5$ | $<5$ | $<5$ |

a. Test Methods for Evaluating Solld Waste, SW-846, Third Edition, including Update 1, US EPA July 1992 (method modified for additional compounds). Results reported on a wet weight basis.

## ANALYTICAL RESULTS

Volatile Organics in Soil
EPA Method 8240Aa

| GTEL Sample Number |  | 12 | 13 | 14 | $\begin{gathered} 120594 \\ \text { MSC } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Client Identification |  | NO-2/4 | NO/C | NO-3/5 | $\begin{gathered} \text { METHOD } \\ \text { BLANK } \end{gathered}$ |
| Date Sampled |  | 11/30/94 | 11/30/94 | 11/30/94 | - |
| Date Analyzed |  | 12/06/94 | 12/06/94 | 12/05/94 | 12/05/94 |
| Analyte | Detection Limit, ug/Kg | Concentration, $\mathrm{ug} / \mathrm{Kg}$ |  |  |  |
| trans-1,3-Dichloropropene | 5 | $<5$ | <5 | <5 | <5 |
| 2-Chloroethylvinyl ether | 10 | $<10$ | $<10$ | <10 | <10 |
| Bromoform | 5 | <5 | <5 | <5 | <5 |
| 4-Methyl-2-pentanone | 20 | $<20$ | $<20$ | <20 | <20 |
| 2.Hexanone | 20 | <20 | <20 | <20 | <20 |
| Tetrachloroethene | 5 | <5 | <5 | <5 | <5 |
| 1,1,2,2-Tetrachloroethane | 5 | <5 | <5 | <5 | <5 |
| Toluene | 5 | $<5$ | <5 | <5 | <5 |
| Chlorobenzene | 5 | $<5$ | <5 | <5 | <5 |
| Ethylbenzene | 5 | <5 | <5 | <5 | <5 |
| Styrene | 5 | $<5$ | <5 | <5 | <5 |
| 1,2-Dichlorobenzene | 10 | $<10$ | $<10$ | $<10$ | $<10$ |
| 1,3-Dichlorobenzene | 10 | $<10$ | <10 | $<10$ | <10 |
| 1,4-Dichlorobenzene | 10 | $<10$ | $<10$ | $<10$ | <10 |
| Xylene, total | 10 | <10 | <10 | <10 | $<10$ |
| Trichlorofluoromethane | 5 | <5 | <5 | <5 | <5 |
| Detection Limit Multiplier |  | 1 | 1 | 1 | 1 |
| DCE surrogate, \% recovery |  | 101 | 103 | 94.7 | 94.6 |
| TOL surrogate, \% recovery |  | 115 | 92.1 | 112 | 101 |
| BFB surrogate, \% recovery |  | 96.9 | 95.6 | 102 | 102 |

a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Including Update 1, US EPA July 1992 (method modified for additional compounds). Results reported on a wet weight basis.

## ANALYTICAL RESULTS

## Volatile Organics in Soil

EPA Method 8240Aa

| GTEL. Sample Number |  | $\begin{gathered} 120694 \\ \text { MSC } \end{gathered}$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Client Identification |  | METHOD BLANK |  |  |  |
| Date Sampled |  | - |  |  |  |
| Date Analyzed |  | 12/06/94 |  |  |  |
| Analyte | Detection Limit, ug/Kg | Concentration, ug/Kg |  |  |  |
| Chioromethane | 10 | $<10$ |  |  | - |
| Bromomethane | 10 | $<10$ |  |  |  |
| Vinyl chloride | 10 | $<10$ |  |  |  |
| Chloroethane | 10 | $<10$ |  |  |  |
| Methylene chloride | 5 | <5 |  |  |  |
| Acetone | 50 | <50 |  |  |  |
| Carbon disulfide | 5 | $<5$ |  |  |  |
| 1,1-Dichloroethene | 5 | $<5$ |  |  |  |
| 1,1-Dichloroethane | 5 | <5 |  |  |  |
| 1,2-Dichloroethene, total | 5 | <5 |  |  |  |
| Chloroform | 5 | <5 |  |  |  |
| 1,2-Dichloroethane | 5 | $<5$ |  |  |  |
| 2-Butanone | 20 | <20 |  |  |  |
| 1,1,1-Trichloroethane | 5 | $<5$ |  |  |  |
| Carbon tetrachloride | 5 | $<5$ |  |  |  |
| Vinyl acetate | 50 | $<50$ |  |  |  |
| Bromodichloromethane | 5 | <5 |  |  |  |
| 1,2-Dichloropropane | 5 | <5 |  |  |  |
| cis-1,3-Dichloropropene | 5 | $<5$ |  |  |  |
| Trichloroethene | 5 | $<5$ |  |  |  |
| Dibromochloromethane | 5 | <5 |  |  |  |
| 1,1,2-Trichloroethane | 5 | $<5$ |  |  |  |
| Benzene | 5 | $<5$ |  |  |  |

a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, including Update 1, US EPA July 1992 (method modified for additional compounds). Results reported on a wet weight basis

## ANALYTICAL RESULTS

## Volatile Organics in Soil

EPA Method 8240Aa

| GTEL Sample Number |  | $\begin{gathered} 120694 \\ \text { MSC } \end{gathered}$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Client Identification |  | METHOD BLANK |  |  |  |
| Date Sampled |  | - |  |  |  |
| Date Analyzed |  | 12/06/94 |  |  |  |
| Analyte | Detection Limit, ug/Kg | Concentration, ug/Kg |  |  |  |
| trans-1,3-Dichloropropene | 5 | $<5$ |  |  |  |
| 2-Chloroethylvinyl ether | 10 | <10 |  |  |  |
| Bromoform | 5 | <5 |  |  |  |
| 4-Methyl-2-pentanone | 20 | $<20$ |  |  |  |
| 2-Hexanone | 20 | <20 |  |  |  |
| Tetrachloroethene | 5 | <5 |  |  |  |
| 1,1,2,2-Tetrachloroethane | 5 | <5 |  |  |  |
| Toluene | 5 | <5 |  |  |  |
| Chlorobenzene | 5 | <5 |  |  |  |
| Ethylbenzene | 5 | <5 |  |  |  |
| Styrene | 5 | <5 |  |  |  |
| 1,2-Dichlorobenzene | 10 | $<10$ |  |  |  |
| 1,3-Dichlorobenzene | 10 | <10 |  |  |  |
| 1,4-Dichlorobenzene | 10 | $<10$ |  |  |  |
| Xylene, total | 10 | <10 |  |  |  |
| Trichlorofluoromethane | 5 | <5 |  |  |  |
| Detection Limit Muitiplier |  | 1 |  |  |  |
| DCE surrogate, \% recovery |  | 105 |  |  |  |
| TOL surrogate, \% recovery |  | 113 |  |  |  |
| BFB surrogate, \% recovery |  | 96.2 |  |  |  |

a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Including Update 1, US EPA July 1992 (method modified for additional compounds). Results reported on a wet weight basis.

## ANAL.YTICAL RESULTS

CAM List of Metals in Soil (TTLC) ${ }_{a}$

| GTEL Sample Number |  |  | 08 | 09 | 10 | 11 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Client Identification |  |  | WO-1/2 | WO-C | WO-2/4 | NO-1/2 |
| Date Sampled |  |  | 11/30/94 | 11/30/94 | 11/30/94 | 11/30/94 |
| Date Prepared (Method 3055 ${ }^{\text {b }}$ ) |  |  | 12/07/94 | 12/07/94 | 12/07/94 | 12/07/94 |
| Date Analyzed (Method 6010) |  |  | 12/08/94 | 12/08/94 | 12/08/94 | 12/08/94 |
| Date Analyzed (Method 7060) |  |  | 12/08/94 | 12/08/94 | 12/08/94 | 12/08/94 |
| Date Prepared and Analyzed (Method 7470) |  |  | 12/07/94 | 12/07/94 | 12/07/94 | 12/07/94 |
| Analyte | EPA <br> Method ${ }^{\text {a }}$ | Detection Limit, $\mathrm{mg} / \mathrm{Kg}$ | Concentration, $\mathrm{mg} / \mathrm{Kg}$ |  |  |  |
| Antimony | EPA $6010^{\circ}$ | 5 | $<5$ | $<5$ | $<5$ | $<5$ |
| Arsenic | EPA 7060 ${ }^{\text {d }}$ | 0.5 | 5.5 | 6.3 | 2.5 | 4.0 |
| Barium | EPA $6010^{\circ}$ | 1 | 150 | 180 | 55 | 100 |
| Beryllium | EPA $6010^{\circ}$ | 0.5 | 0.6 | $<0.5$ | $<0.5$ | <0.5 |
| Cadmium | EPA $6010^{\circ}$ | 0.5 | $<0.5$ | $<0.5$ | $<0.5$ | <0.5 |
| Chromium, total | EPA $6010^{\circ}$ | 1 | 30 | 62 | 38 | 92 |
| Cobalt | EPA $6010^{\circ}$ | 1 | 9 | 15 | 8 | 19 |
| Copper | EPA $6010^{\circ}$ | 1 | 28 | 27 | 11 | 17 |
| Lead | EPA $6010^{\circ}$ | 5 | 8 | 9 | $<5$ | 6 |
| Mercury | EPA $7470^{\circ}$ | 0.1 | $<0.1$ | $<0.1$ | $<0.1$ | $<0.1$ |
| Molybdenum | EPA 6010 ${ }^{\circ}$ | 1 | 1 | 1 | <1 | $<1$ |
| Nickel | EPA 6010 ${ }^{\circ}$ | 2 | 41 | 90 | 59 | 100 |
| Selenium | EPA $6010^{\circ}$ | 5 | <5 | $<5$ | $<5$ | $<5$ |
| Silver | EPA $6010^{\circ}$ | 1 | $<1$ | $<1$ | $<1$ | <1 |
| Thallium | EPA 6010 ${ }^{\text {d }}$ | 5 | $<5$ | $<5$ | <5 | <5 |
| Vanadium | EPA 6010 ${ }^{\circ}$ | 1 | 32 | 35 | 22 | 44 |
| Zinc | EPA $6010^{\circ}$ | 5 | 58 | 56 | 34 | 35 |
| Detection Limit Multiplier |  |  | 1 | 1 | 1 | 1 |

a. Test Methods for Evaluating Solld Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Results reported on a wet weight basis.
b. Draft EPA method 3055 SW-846 Third Addition Revision 1 Sept. 1991.
c. Inductively Coupled Argon Plasma (ICP).
d. Graphite Furnace Atomic Absorption (GFAA).
e. Cold Vapor Atomic Absorption (CVAA).

ANALYTICAL RESULTS
CAM List of Metals in Soil (TTLC) a

| GTEL Sample Number |  |  | 12 | 13 | 14 | $\begin{gathered} 120794 \\ \text { MET } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Client Identification |  |  | NO-2/4 | NO/C | NO-3/5 | $\begin{array}{\|c} \text { METHOD } \\ \text { BLANK } \end{array}$ |
| Date Sampled |  |  | 11/30/94 | 11/30/94 | 11/30/94 | - |
| Date Prepared (Method 3055 ${ }^{\text {b }}$ ) |  |  | 12/07/94 | 12/07/94 | 12/07/94 | 12/07/94 |
| Date Analyzed (Method 6010) |  |  | 12/08/94 | 12/08/94 | 12/08/94 | 12/08/94 |
| Date Analyzed (Method 7060) |  |  | 12/08/94 | 12/08/94 | 12/08/94 | 12/08/94 |
| Date Prepared and Analyzed (Method 7470) |  |  | 12/07/94 | 12/07/94 | 12/07/94 | 12/07/94 |
| Analyte | EPA <br> Methoda | $\begin{gathered} \text { Detection } \\ \text { Limit, } \mathrm{mg} / \mathrm{Kg} \\ \hline \end{gathered}$ | Concentration, mg/Kg. |  |  |  |
| Antimony | EPA $6010^{\circ}$ | 5 | $<5$ | <5 | <5 | <5 |
| Arsenic | EPA 7060 ${ }^{\text {d }}$ | 0.5 | 9.3 | 6.2 | 7.5 | <0.5 |
| Barium | EPA $6010^{\circ}$ | 1 | 130 | 120 | 170 | $<1$ |
| Beryllium | EPA $6010^{\circ}$ | 0.5 | <0.5 | <0.5 | 0.6 | <0.5 |
| Cadmium | EPA 6010 ${ }^{\circ}$ | 0.5 | $<0.5$ | <0.5 | <0.5 | <0.5 |
| Chromium, total | EPA 6010 ${ }^{\circ}$ | 1 | 68 | 51 | 210 | <1 |
| Cobalt | EPA $6010^{\circ}$ | 1 | 16 | 11 | 21 | $<1$ |
| Copper | EPA 6010 | 1 | 47 | 42 | 35 | $<1$ |
| Lead | EPA $6010^{\circ}$ | 5 | 6 | 6 | 8 | < |
| Mercury | EPA $7470^{\circ}$ | 0.1 | 0.1 | 0.1 | 0.1 | <0.1 |
| Molybdenum | EPA $6010^{\circ}$ | 1 | 1 | <1 | 1 | <1 |
| Nickel | EPA $6010^{\circ}$ | 2 | 110 | 85 | 180 | <2 |
| Selenium | EPA 6010 ${ }^{\circ}$ | 5 | <5 | $<5$ | $<5$ | $<5$ |
| Silver | EPA $6010^{\circ}$ | 1 | $<1$ | <1 | $<1$ | <1 |
| Thallium | EPA 6010 ${ }^{\text {d }}$ | 5 | $<5$ | $<5$ | <5 | <5 |
| Vanadium | EPA $6010^{\circ}$ | 1 | 44 | 40 | 46 | <1 |
| Zinc | EPA 6010 | 5 | 69 | 80 | 70 | $<5$ |
| Detection Limit Multiplier |  |  | 1 | 1 | 1 | 1 |

a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986, Results reported on a wet weight basis.
b. Draft EPA method 3055 SW-846 Third Addition Revision 1 Sept. 1991
c. Inductively Coupled Argon Plasma (ICP)
d. Graphite Furnace Atomic Absorption (GFAA)
e. Cold Vapor Atomic Absorption (CVAA).

## ANALYTICAL RESULTS

## Lead in Soil

EPA Method 6010a
a. Test Methods for Evaluating Solld Waste, SW-846, Third Edition, Revision O, US EPA November 1986. Sample preparation by Method 3050. Results reported on a wet weight basis

| GTEL Sample Number |  | 01 | 2 | 03 | 04 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Client Identification |  | ATW-1/3 | ATW-2/3 | BTE-1/3 | BTE-2/3 |
| Date Sampled |  | 11/30/94 | 11/30/94 | 11/30/94 | 11/30/94 |
| Date Prepared |  | 12/02/94 | 12/02/94 | 12/02/94 | 12/02/94 |
| Date Analyzed |  | 12/06/94 | 12/06/94 | 12/06/94 | 12/06/94 |
| Analyte | $\begin{gathered} \text { Detection } \\ \text { Limit, } \mathrm{mg} / \mathrm{Kg} \\ \hline \end{gathered}$ | Concentration, mg/Kg |  |  |  |
| Lead, total | 5 | 10 | 6 | 7 | 9 |
| Detection Limit Multiplier |  | 1 | 1 | 1 | 1 |


| GTEL Sample Number | 05 | 06 | 07 | 120294 <br> MET |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Client Identification |  | MT-3/3 | MT-4/4 | MT-5/4 | METHOD <br> BLANK |
| Date Sampled | $11 / 30 / 94$ | $11 / 30 / 94$ | $11 / 30 / 94$ | $\cdots$ |  |
| Date Prepared | Detection |  | $12 / 02 / 94$ | $12 / 02 / 94$ | $12 / 02 / 94$ |$⿻$| $12 / 02 / 94$ |
| :--- |
| Date Analyzed |
| Analyte |



## Attachment 4

## Underground Storage Tank Closure Review Form



Addilional Action Required (i.e.: additional site assessment, remediation, monitoring): None Vili. JUSTIFICATION FOR RECOMMENDED ACTION:

1) Source removed by UST removal (prior to 1994), producl line and impacted soil removal May 1995. 2) No phase-separated liquid hydrocarbons,
2) No wasle oil storage al site since at least 1994, impacted soil at sile not in communication w/drinking water or public contact.
3) Ongoing biodeqradationlattenuation in soil, likely to continue. 6) Asphall cap prevents surface infitration and flushing of hydrocarbons in soil into groundwater. ॥

Attachment 5
Waste Removal Documentation

# REMAT <br> 830 Norit Miller Rond <br> Brokege, גidsonk 85326 

FEX: (602) 386-3300
Pinane: (602) 386-6600

## WASTE DISPOSAL QUESTIONNAIRE

## GENERATOR INFORALATION:

i. इגME: Sears Reebuck \& Company Store \# 1528
2. fDDRES5: 333 Bexerly Bd , Dept. 824 C , Bldg $A 2 \boldsymbol{2}=16 \mathrm{BB}$
3. CITY/SEATE/EIP: Haffman Estates. Il 60179
4. Comiact (s): Bernadine Palka
5. PEONE (708) 286-8864

7. FEDERKL/STETE EPA DD NO. (IT Eazerdous): N/A
8. HZSME SITE LOCRMION: 9000 Northgate Ma11, San Rafael, CA
$\qquad$

## WASTE INFORMATION:

9. H2SIE TYP? (comon name by which waste is zefer=ed; $\qquad$ Stockpiled Soil Containing Petroleum Hydrecarbons

UST Removal activities
 () Haste Cill ()Dther $\qquad$


 N/A


 (IUSCA) (jyES (XINO
10. fbat ix the physical state of the vaste $z:$ foor temperxtare? (X) SOMID (; SINISOUID (slujge)
() LIOLID
11. Hhet Nill be the rinimum percent of soidds fl the weste? 70
12. Is the waste ( X ; EDMOGKKOUS or () STRMEFIED?

 It the weste? ( JEES (X)NO If yes, what if the percentacee?

DESCERT:NON:

2i. is the disposai of the weste () orwozig or a (i) ONE-mINE ciean-ip?
22. That is the approximate voiune of naste to ta disposect two (13)


 are deyf (SDecisy TONS, VARDS, JRTMS, EEC.) 2 yards

## TRAKSPORTER INFORMATION:

25. KAE: : Southwest Soil Remediation, "Inc.
26. ADLFESS:3951 E. Columbia Street
27. CITY/SEATE/Z:P:Tucson, $A Z$
28. CONFR2T $(S)$ : Bob Bonnert
29. p50NE MO. 5607 ) 571-7170 86066729

- 
- ( $= \pm$ 万FPII $=a b i e):$


## IABORATORF TNFORREATION:

E2. NANP: GTEL Environmentel Laboratorips





## CERTIEIC\&TION:



 $\because 5 E$ EISPOSED.


Marager Environmental Engineering
2402:

$\qquad$

## GENERATOR CERTIFICATIONS

## NON－HAZARDOUS CERTIFICATION

If the undersigned，under perelty of the iaw，do bereby cerifity that the waste material．Exo＝the location below，submitted foi acceptance to 三EMAm is not＂RCRA＂Iisted iazaraios waste as defined in 40 CFR 262 ard does not exaibit any o＊the characteristics of a bayerious weste es cefined in 40 GR 26102 the Moxicity cherecte－isitic perision ？uies as specieied in the Harch 29，1990，Feseral Resister；2ad tiet I an antiorized＝0 execute this documene on behalí oi：
GENERATOR：Sears Roebuck \＆Company STORE \＃ 1528
IOCATIOK： 9000 Northgate Ma11，San Rafael，CA


SAME（PIease P＝int）Bernadine Palka DATE：3／May git

## HERBICIDE／PESTICIDE／PCB CERTIFICATION

If to undersigred，uncer penalty of law，un isurely certify hat
 acceptrace to Fenft coes mot contain herbicides on pesiticices at a concentratior which worla render it heze－ifus as deíines in＂perin＂ 40 CrR 26I，and does not conicin polycilocinated bipineryis Et a
 suahorized to execute this cocumen on berini us：
GERERATOF：Sears Roebuck \＆Company STORE \＃ 1528
こOCREOR：
9000 Northgate Mall，San Rafael，CA

SEGRス己UFE：
 ตーホンシ：Fianager Envir．Engineerinc K．xNE（Diease シュさnも；Bernadine Palka



## generator Certifications

## U.S.T. EXEMPTION CERTIFICATION

I, the urdersigned, under penalty of lav, do herevy certizy that the waste material (soil), fron the location belon, was contarinated by a petroleum fuel source regriated urier the Federal bnderground stozage rank pailes, 40 CFR pert 2sc; and that I an suthorimed to execute this dociment on bebalit of:

GKATEREATOR:
Sears Roebuck \& Company STORE 1528
LOERTION: 9000 Northgate Mall, San Rafael, CA
SIGKRTURE: $\qquad$ TrTTV:Manager Envir. Engineering XAME (Piease p=int) Bernadine Palka DZTE: $\qquad$

## PETROLEUM CONSTITUENT CERTIFICATION

 in guestion does not contain constitueris =ther then those wifch vouid nomaily appear ir en eralysis of un-wsed petroleum products, I submit end cevtity thzt I am tamilier rith the sownce 0 conterisation of the soil and finther cettisy that the source contains no comterinater other thas what is lisitec bezow:

Soii Contaminarts
Gasoline

GMERATOR:
SIGTiATEPE:


REMAT<br>830 North Miller foad<br>Backeye，$\lambda$ risone 15326

Phone：（602）386－6600
PLX：（602）386－3300

## WASTE DISPOSAL QUESTIONNAIRE

## GENERATOR INFORMATION：

i．KRNE：Sears Reebuck \＆Company Store \＃1528
2．ADDRES5：333 Beverly RO，Dept．824C，B1da A2－z $/ 600$
3．CIIT／5EATE／EIP：Hoffman Estates．Il 60170
4．Conanct $(s)$ ：Bernadine Palka 5．PEONE $\$$（708）286－8864
8．GLNENETDR＇S STEKDERD ISDUSTREAL CLFSS CODE（SIC）：553／1
7．FEDEAN／STRTE EPR DO NO．（IT EAEECOUS）：N／A
8．KESEE SITY LOCATION：
9000 Northgate Ma11，San Rafael，CA

## PASTE INFORMEATION：

9．HxSTE MTP2（comon name bir wich wasie is referaed）： Stockpiled soil containing petroleum hydrocarbons

10．RCCUNAME DESCRIPTION OF TEE PROCOSS HEICE GEXRRAEES TEE VASTE：
UST Removal activities
 （X）FAste cill（X）other＿llsed＿nil


 $\qquad$
 2xinniri
 （IVSCA）：（）yES（XINO
25．Fhat is the physical state of the vaste et roor qemperatzia？ （X）SOIID（i）SENISOLID（EIudge）（）LIOEID
16．Hhet $N: I I$ be the finimum percent of solids of the wasten 70

16．Hill the weste contais ary＝iee stenting incuids？（j IRS（）NO
29．Is there EnY deLZIS f1．e．，HOOD，CONCRETE，ERTCK，STEEN，PIPE，EEC．； It the weste？（ ）FES（X）No if Yes，what if the percentage？ $\qquad$ （5） DESCEIPIION： $\qquad$

21．Is the disposai of the veste（）ONGOING or a（ $X$ ）oNE－mIRE ciean－تp？
22．What is the approximate voiane of masto to bs disposec？thirty－two（32）


 ore deyf（Specify TOKS，YARDS，DREMS，EEC．l

## TRANCPORTER INFORMATION：

25．Kמ䒑：Southwest Soil Remediation， $1 n c$ ．
2E．ADNEESS：3951 E．Columbia Street
27．CIME／STAME／ZEP：Tucson，$A Z$
28．CONHACT（S）：Bob Bonnert
22．P50R2 NO．（602）571－7174


## IABORATORY INFORKATION：

E二．NANP：GTEL Environmental Laboratories
33．こ20nE $10.800-633-7936$
52．COK：ACKis；：Don Rensner



## CERTIEICATION：



 CO SE EISPOSED．

пsk？：


MRE：
Manager Environmental Engineering


# gENERATOR CERTIFICATIONS 

## NON－HAZARDOUS CERTIFICATION

If the widersigned，under perinlty of the izw，do bereby certify that the waste meterial，Exam the location below，submitted fo＝ acceptance tc＝ENR is not＂RCRA＂Iisted bazarious vaste es sefined in 40 CFR 262 ard dows not exinibit any $O=$ characteristics of a barezcous weste es cefinec in 40 For 261 O1 the Toxicity cherenteristic Revision Puies as specizied in the Harch 29 ， 2900 Fejeral Restster；and thet I th autionized to execute this documer on behais of：
GENERATOR：Sears Roebuck \＆Company STORE \＃ 1528
INCZITOK： 9000 Northgate Mall，San Rafael，$C A$
SIGRZMTVE：
 mッチェ：Manager Envir：Enaineering XAME（PIease PIint） $\qquad$ Bernadine Palka DATE： $\qquad$ 95

## HERBICIDE／PESTICIDE／PCB CERTIFICATION


 acceptrnce to fenfr does rat contain herbicides or pesizicides at a





GETERATOR：
Sears Roebuck \＆Company STORE $\frac{1528}{}$
Jocseor： 9000 Northgate Mall，San Rafael，CA


# GENERATOR CERTIFICATIONS 

## U.S.T. EXEMPTION CERTIFICATION

I. the urdersigned, under penalty of law, to bereby eertity that the waste material (soil), from the location belov, was conterinated by a petroleun fuel source regriated under the Federad ondersiound stomace rank Raies, 40 CFR part 280; and that $I$ as suthorixed to execute this dociment on behalt os:

GEAERATOR:
Sears Roebuck \& Company STORE 1528
IOCATION: 9000 Northgate_Mall, San_Rafael, CA
STGKZIUET:
 TrT2T上: Manager Envir. Engineering तINT \{Picese p=int $\qquad$ DATE: $\qquad$

## PETROLEUM CONSTITUENT CERTIFICATION

In liau of rabmitting analytical dete verifying that the above 6cil? in question dots not contain constitutnte sther then those whích vould notwiliy appear in en enalysis of un-nsed petroleum procucus. I submit enä ceztíy trat I am famiiiar titen the source of conterimation of the soil sua fuather cortioy that the source contains no conterinatas other than what is listed beiow:

Soi: Contarinartsused oil/virgin oil

GENERATOR:
Sears Roebuck \& Company STORE \# 1528
SIGAGTEPE:


KANE (Fleze 2=2nt) Bernacine Palka Dime: 3/M495


November 2, 1999

Ms. Melissa Gossell
IT Corporation
757 Arnold Drive, Suite D
Martinez, CA 94553-6526
Re: New Landowner Notification and Participation Requirements for Sears, Roebuck \& Co. \#1528, 9000 Northgate Mall, San Rafael

This letter is to inform you of new legislative requirements pertaining to cleanup and closure of sites where an unauthorized release of hazardous substance, including petroleum, has occurred from an underground storage tank (UST). Section 25297.15 (a) of Ch. 6.7 of the Health \& Safety Code requires the primary or active responsible party to nolify all current record owners of fee title to the site of: 1) a site cleanup proposal; 2) a site closure proposal; 3) a local agency intention to make a determination that no further action is required; and 4) a local agency intention to issue a closure letter. Section 25297.15(b) requires the local agency to take all reasonable steps to accommodate responsible landowners' participation in the cleanup or site closure process and to consider their input and recommendations.

For purposes of implementing these sections, you have been identified as the primary or active responsible party. Please provide to this agency, within twenty calendar days of receipt of this notice, a complete mailing list of all current record owners of fee title to the site. You may use the enclosed list of landowners form (sample letter 2) to comply with this requirement. If the list of current record owners of fee litle to the site changes, you must notify the local agency of the change within 20 calendar days from when you are notified of the change.

If you are the sole landowner, please indicate that on the landowner list form. The following notice requirements do not apply to responsible parties who are the sole landowner for the site.

In accordance with Section 25297.15(a) of Ch. 6.7 of the Health \& Safety Code, you must certify to the local agency that all current record owners of fee title to the site have been informed of the proposed action before the local agency may do any of the following:

1) consider a cleanup proposal (corrective action plan);
2) consider a site closure proposal;
3) make a determination that no further action is required;
4) issue a closure letter.

You may use the enclosed notice of proposed action form (sample letter 3) to comply with this requirement. Before approving a cleanup proposal or site closure proposal, determining that no further action is required, or issuing a closure letter, the local agency will take all reasonable steps necessary to accommodate responsible landowner participation in the cleanup and site closure process and will consider all input and recommendations from any responsible landowner.


Deputy Fire Marshal

## BRM:db

BRMIsiteclosuresinew loo not\&partreqs-9000 Northgate doc

## San Rafael Fire Department

1039 'C' Street
San Rafael, CA 94901

RE: Certified List of Record Fee Title Owners for Sears, Roebuck \& Co., \#1528, 9000 Northgate Mall, San Rafael

Fill out item 1 if there are multiple site landowners. If you are the sole site landowner, skip item 1 and fill out item 2.

1. In accordance with Section 25297.15(a) of Chapter 6.7 of the Health \& Safety Code, $I$, " ", (name of primary responsible party) certify that the following is a complete list of current record fee title owners and their mailing address(es) for the above site:
2. In accordance with Section 25297.15(a) of Chapter 6.7 of the Health \& Safety code, I, " ," (name of primary responsible party) certify that I am the sole landowner for the above site.

Sincerely,

Signature of the primary responsible party

Printed Name of primary responsible party

November 2, 1999

## San Rafael Fire Department 1039 'C' Street <br> San Rafael, CA 94901

RE: Notice of Proposed Action Submitted to Local Agency for Sears, Roebuck \& Co. \#1528, 9000 Northgate Mall, San Rafael

In accordance with Section 25297.15(a) of Chapter 6.7 of the Health \& Safety Code, I, , (name of primary responsible party) certify that I have notified all
responsible landowners of the enclosed proposed action. Check space for applicable proposed actions(s):
$\square \quad$ Cleanup Proposal (corrective action plan)
$\square \quad$ Site Closure Proposal
$\square$ Local Agency Intention to make a determination that no further action is required.
L Local Agency Intention to Issue a Closure Letter

Sincerely,

Signature of primary responsible party

Name of primary responsible party
cc: Names and addresses of all record fee title owners

November 2, 1999
Ms. Melissa Gossell
IT Corporation
757 Arnold Drive, Suite D
Martinez̈, CA 94553-6526
Re: Request for Site Closure; Sears, Roebuck and Co. \#1528, 9000 Northgate Mall, San Rafael

Dear Ms. Gossell:
This department has received your request for site closure at the above referenced location. To adequately assess your site and complete our review, we are requesting submittal of the following missing documentation:

- Laboratory analytical reports of all soil sampling performed in conjunction with the Underground Storage Tank excavations by Blaine Tech Services on March 7, 1985.
(IT Stoner Laboratory Nos. 26326,26327 and 26328);
L Laboratory analytical reports hotaerated sollstockpile samples collected by Blaine
- Documentation of the 1987 emoval of one 1000 -gallon waste oil underground storage tank and two $530-g a i l o n$ bulk oil znderground storage tanks.
- Manifests and/or facility weight tags for the transportation of 34 cubic yards of soll by Southwest Soil Remediation, Inc. to the Remat thermal processing facility in Buckeye, Arizona in 1995.
As your company seems to be acting as the responsible party for this site at this time, enclosed pleasse find Deed Notification forms which must be completed and returned to this Department before we can continue with the site assessment.


## Ms. Melissa Gossell

## Page 2

Following the Regional Water Quality Control Board and legislative directives, this Department will require a boring to obtain a soil and water sample for MTBE testing.

In addition, a Sensitive Receptor Review report will be needed prior to completing a site closure.
Should you have any questions, please call me at (415) 485-3308.




Hazardous Materials Coordinator

BRM:db

0


November 16, 1999
Ms. Melissa|Gossell
IT Corporation
757 Arnold Drive, Suite D
Martinez, CA 94553-6526

## Re: Review for Closure

Sears, Roebuck \& Co. Automotive Center No. 1528
9000 Northgate Mall, San Rafael, California
Dear Ms. Gossell:
The City of San Rafael Fire Department (SRFD) is in the process of reviewing iT Corporations Request for Closure, Sears, Roebuck and Co. Automotive Center No. 1528, 9000 Northgate Mall, San Rafael, California dated March 23, 1999. The IT Corporation report appears to adequately document the site investigation and remediation activities associated with the removal of the dispenser islands and product lines conducted between November 1994 and May 1995. However, the SRFD file for the subject site is lacking documentation for the site investigation and remediation -activitles associated with the removal of eight underground storage tanks (USTS) conducted in 1985 and 1987. A list of all documents contained in the SRFD file for the subject site is attached.

The SRFD requests the submittal of missing documentation so that the review for closure can be completed. In particular, submittal of the following documentation is requested:

* Laboratory analytical reports for three soil samples coilected from UST excavations by Blaine Tech Services on March 7, 1985 (IT Stoner Laboratory Nos. 26326, 26327 and 26328);
* Laboratory analytical reports for samples collected by Blaine Tech Services from aerated (soil stockpiles on March 25, 1985 (IT Stone Laboratory Nos. unknown);
* Docurnentation of the 1987 removal of one 1,000-gallon waste oil UST and two 530gallon bulk oil USTs;
* Laboratory analytical reports for UST closure samples collected in 1987: (laboratory unknown); and
* Manifests and/or facility weight tags for the transportation of 34 cubic yards of soil by Southwest Soil Remediation, Inc. to the Remat thermal processing facility in Buckeye; Arizona in 1995.
$\Rightarrow$ Before this department can proceed any further with the site closure, the Deed Notification Forms sent to you previously must be completed and reviewed.

Following Regional Water Quality Control Board and Legislatlve directives, borings will be required to obtain soil and water samples which will then be tested for MTBE. This is now a requilrement for site closure.

In addition, a sensitive Recaptor Report will be needed prior to a site closure being completed.

Should you have any questions, please call me at 415-485-3308.
Sincerely,

BRADLEY R. MARK

Hazardous Material Coordinator

## List of documents contained in San Rafael Fire Department file for Sears, Roebuck \& Co. Automotive Center No. 1528 9000 Northgate Mall, San Rafael, California (listed in chronological order)

Blaine Tech Services, 1985a, Soil Sampling at Sears Automotive Center, Northgate Shopping Center, Northgate \& Los Ranchos, San Rafael, California, on March 7, 1985: March 12;

Blaine Tech Services, 1985b, Resampling of Aerated Soil at Sears Automotive Center, Northgate Shopping Center, Northgate \& Los Ranchos, San Rafael, Califormia, on March 25, 1985: April 8;

Marin County Environmental Health Services, undated, Application for Temporary Tank Closure (form) submitted to Sears, Roebuck \& Co.;

Sears, Roebuck \& Co., 1986a, Ietter to Marin County Environmental Health Services regarding removal of three remaining USTs: February 20;

Sears, Rochuck \& Co., 1986b, completed Marin County Environmental Health Services application form to ramove three USTs, August 4;

Marin County Environmental Health Services, 1986, Permit to Remove three USTs, August 5;
Sears, Roebuck \& Co., 1986c, letter to Marin County Envirommental Health Services requesting an extension of the September 1, 1986 deadline to remove remaining three USTंs, August 25;

Marin County Environmental Health Services, 1987a, Memo to Sears, Roebuck \& Co. requesting information on the status of removal of the three remaining USTs: Jamuary 13;

Combustion Engineering, 1987, Letter to Marin County Enviroamental Health Services regarding laboratory analytical results for one soil sample collected the UST removal at the subject site: February 20;

Marin County Environmental Health Services, 1987b, Letter of clearance based upon review of submitted UST closure sample analytical results: March 2;

Fluor Daniel GTI, 1996, Dispenser Island and Product Line Removal Report, Sears Store 1528, 9000 Northgate Mall, San Refach, Cabiformia: July 1;

IT Corporation, 1999, Reguest for Closure, Sears, Roebuck and Co. Automarive Center No. 1528, 9000 Northgare Mall, San Rafael, California: March 23.

October 15, 2002

Captain Bradley R. Mark, Deputy Fire Marshal
City of San Rafael Fire Department
1039 C Street
San Rafael, California 94901

## Subject: Sears, Roebuck and Co. Automotive Center No. 1528 9000 Nor thgate Mall San Rafael, California

Dear Captain Mark:
On behalf of Sears, Roebuck and Co. (Sears), URS Corporation (URS) is responding to comments made regarding the subject site in correspondence from the San Rafael Fire Department (SRFD) dated November 16, 1999. The letter requested that Sears submit specific historical site documents so that the review for site closure could be completed by the SRFD. Copies of the following documents are attached for your files (the SRFD document request is in bold type, the URS comment follows in italics):

- Documentation of the 1987 removal of one 1,000 -gallon waste oil UST and two 530 -gallon bulk oil USTs

A copy of the document is presented in Attachment 1. (Note: the two smaller bulk oil USTs were 500 gallons capacity rather than 530-gallon capacity.)

- Laboratory analytical reports for UST closure samples collected in 1987 (laboratory unknown)

A copy of the laboratory analytical report was not found However; a copy of the Clearance document from the Department of Health and Human Services, Envirommental Health Services, County of Marin, dated March 2, 1987, is presented in Attachment 2.

- Manifests and/or facility weight tags for the transportation of 34 cubic yards of soil by Southwest Soil Remediation, Inc. to Remat thermal processing facility in Buckeye, Arizona in 1995.

A copy of the Waste Manifest document, dated August 1995, is presented in Attachment 3.

As per our telephone discussion on August 14, 2002, Sears has checked their files for the remaining two historical site documents requested in the SRFD letter (laboratory analytical reports dated March 7, 1985 and March 25, 1985) and have not located them. To date, Sears has researched its files and has found what it could to tespond to all requests made by the SRFD for additional historical information regarding the 1985 and 1987 removal activities conducted at the subject site. It must be understood that there was no requirement for Sears to retain historical documents for these removal activities since Sears had received site closure for these activities from the County of Marin.

The November 16, 1999 SRFD letter also requested that Sears provide a sensitive receptor report for the subject site as an additional requirement for site closure. A copy of the EDR - Offsite Receptor Report for the subject site, dated November 12, 1999, is provided in Attachment 4

Captain Mark
October 15, 2002
Page 2

Please note that in the first paragiaph of the November 16, 1999 SRFD letter it states that " remediation activities associated with the removal of eight underground storage tanks (USTs).."For the record, there were a total of five (5) underground storage tanks located at the subject site: two (2) gasoline tanks, one (1) waste oil tank, and two (2) bulk motor oil tanks

Please provide a copy of the Deed Notification Form so that Sears can complete and return them. It is understood that this form must be completed prior to obtaining site closure

As requested by the SRFD, a Work Plan is presently being written which will address the requirement of additional soil and groundwater sampling and analysis for Methyl tertiary butyl ether (MTBE) at the subject site Please note that URS is the new consultant of record for Sears regarding this site. If you have any questions, please do not hesitate to contact me at 510-874-3101

Sincerely,
URS CORPORATION


Sentior Geologist
cc: Scott DeMuth, Manager, Environmental Technical Services, Sears, Roebuck and Co. URS Corporation Project Files

## Attachments:

1. Application to Remove Underground Hazardous Material Storage Tank

2 Clearance document, Department of Health and Human Services, Environmental Health Services, County of Marin, dated March 2, 1987
3. Waste Manifest dated August 1995
4. EDR - Offsite Receptor Report dated November 1999

## ATTACHMENT 1

Application to Remove Underground Hazardous Material Storage Tank

onmental health Services

COUNTY OF MARIN hall of justice civic center ROOM 2 男!
SAM RAFAEL. CALIFORNIA 94903
(415) 499-6907

APPLICATION TO REMOVE

1. Facility Information

RECEIVED
AUG 51986
underground hazardous material storage environmental health

2. Contractor Removing Tank

Company Name

3. Soil Analysis Laboratory

Company Name

5. Tank Identification \& Construction

5. Chemical Composition of Materials Currently or Previously Stored in Tank

7. Piping
A. Aboveground Piping: oi Double-walled pipe02 Concrete-lined trench03 Gravity $\square$ or Pressure $\square$ as Suction [(Check) appropriate boxes)]os Unknownof None
B. Underground Piping: \&o Double walled pipe02 Concrete-lined trenchas Gravity os Pressure os Suction [(Check) appropriate boxes)]06 Unknown or None
9. Disposition of Tank (s)

9. Applicant Information

Name of Aponeant
WI GK GIGS

ATTACHMENT 2
Clearance document, Department of Health and Human Services, Environmental Health Services, County of Marin, dated March 2, 1987

# DEPARTMENT OF HEALTH AND HUMAN SERVICES 

## Environmental Health Services

## COUNTY OF MARIN

Hall of Justice - Civic Center - San Refuel, CA 94903
(415) 499-6907

DATE: : anarch 2, 1987

TO:
Attn: Donald Woods
Sears \& Roebuck Company
Merchandise Group-Western Law Office
RP: $\frac{\text { San Rafael Store }}{\text { 900 Northgate Mall }}$
900 South Fremont Ave.
Alhambra, CA 91802

## CLEARANCE

Analysis of samples of the soil or ground mazer at the above site indicated a safe level or absence of any residual of the product formerly stored in underground storage tanks at this location.

Thank you for your cooperation.
very truly yours,
EDTIARD J. STEWART, CHIEF E:VIROMENTAL HEALTH SERVICES


## ATTACHMENT 3

Laboratory analytical reports for UST closure samples collected in 1987


## ATTACHMENT 4

EDR - Offsite Receptor Report dated November 1999

## 㓛

# EDR - Offsite Receptor Report 

Sears Auto Center

9000 Northgate Drive
San Rafael, CA 94903
Inquiry Number: 432527.1s

November 12, 1999

# The Source For Environmental Risk Management Data 

3530 Post Road
Southport, Connecticut 06490
Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

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## EXECUTIVE SUMMARY

A search of available records was conducted by Environmental Data Resources，Inc（EDR）The EDR Offsite Receptor Report provides information which may be used to comply with the Clean Air Act Risk Management Program 112－R ＂The rule requires that you estimate in the RMP residential populations within the circle defined by the endpoint for your worst－case and alternative release scenarios（ie．the center of the circle is the point of release and the radius is the distance to the endpoint）．In addition，you must report in the RMP whether certain types of public receptors and environmental receptors are within the circles．＂

The address of the subject property，for which the search was intended，is：
SEARS AUTO CENTER
9000 NORTHGATE DRIVE
SAN RAFAEL，CA 94903
Distance Searched： 1.000 miles from subject property

## RECEPTOR SUMMARY

An $X$ indicates the presence of the receptor within the search radius
Residential Population
Estimated population within search radius： 6777 persons
Other Public Receptors

| Type | Within Search Radius | Sites Total |
| :---: | :---: | :---: |
| Day Care Centers： | 区 | 6 |
| Medical Centers： | $\square$ |  |
| Nursing Homes： | 区 | 4 |
| Schools： | 区 | 10 |
| Hospitals： | $\square$ |  |
| Arena： | $\square$ |  |
| Prison： |  |  |

## Environmental Receptors

Type
Within Search Radius
Sites Total
Federal Land：

CENSUS MAP - 432527.1 s



## CENSUS FINDINGS

| Map ID | Tract Number | Total Population | Population in Radius | Total Area(sq.mi) | Area in Radius(sq mi ) |
| :---: | :---: | :---: | :---: | :---: | :---: |
| T1 | 1060.01 | 2598 | 753 | 17.09 | 050 |
| T2 | 115000 | 6817 | 16.2 | 430 | 001 |
| T3 | 108100 | 6566 | 1265.1 | 233 | 045 |
| T4 | 106002 | 4773 | 1923 | 9.61 | 0.39 |
| T5 | 108200 | 5606 | 50342 | 193 | 174 |
| T6 | 1090.00 | 7358 | 1938 | 179 | 005 |

RECEPTOR MAP - 432527.1s
 9000 Northgate Drive San Rafael CA 94903 $38.0040 / 122.5437$

| CUSTOMER: | IT Corporation |
| :--- | :--- |
| CONTACT: | David Bero |
| INQUIRY \#: | $432527,1 \mathrm{~s}$ |
| DATE: | November $12,19994: 56 \mathrm{pm}$ |

## MAP FINDINGS

| Map ID Direction Distance Distance (ft.) Elevation | Site |  | EDR ID <br> Database |
| :---: | :---: | :---: | :---: |
| 1 <br> WNW <br> $1 / 8-1 / 4 \mathrm{mi}$ <br> 972 <br> Higher | Name: <br> ID: <br> Site Type: | Villa Marin Health cAre 15298 Nursing home | NUR1004726 NURHOM |
| 2 <br> SW <br> 1/4-1/2 mi <br> 1971 <br> Higher | Name: <br> ID: <br> Site Type: | TERRA LINDA NURSERY SCHOOL 210106082 <br> Daycare ctr | DAY1036110 DAYCARE |
| A3 <br> NW <br> 1/4-1/2 mi <br> 2071 <br> Higher | Name: <br> ID: <br> Site Type: | CITY OF SAN RAFAELNALLECITO SCHOOL AGE 210110892 <br> Daycare ctr | DAY1036086 DAYCARE |


| A4 | Name: | VALLECITO ELEMENTARY | 061122008822 |
| :---: | :---: | :---: | :---: |
| NW | NCES ID: | 061122008822 |  |
| 1/4-1/2 mi | Address: | 50 NOVA ALBION WAY |  |
| 2077 |  | SAN RAFAEL, CA 94903 |  |
| Higher | School ID: | 7791 |  |
|  | Telephone: | 415-479-2032 |  |
|  | Local Code: | Urban Fringe of Large City |  |
|  | School Type: | Regular Elementary and Secondary Schools |  |
|  | School Level: | Primary |  |
|  | County: | MARIN |  |
|  | Lowest Grade | Kindergarten |  |
|  | Highest Grade |  |  |


| 5 | Name: | Hartzell School | GNS0189412 |
| :--- | :--- | :--- | :--- |
| SSE | ID: | 224985 | GNIS_SCH |
| $1 / 4-1 / 2 \mathrm{mi}$ | Site Type: | School |  |
| 2196 | Latitude: | 37.99900 |  |
| Higher | Longitude: | -122.50000 |  |
|  |  |  | GNS0237219 |
| 6 | Name: | Vallecito School | GNIS_SCH |
| WNW | ID: | 236960 |  |
| $1 / 4-1 / 2 \mathrm{mi}$ | Site Type: | school |  |
| 2199 | Latitude: | 38.00700 |  |
| Higher | Longitude: | -122.60000 |  |

## MAP FINDINGS

| Map ID Direction Distance Distance (ft.) Elevation | Site |  | EDR ID <br> Database |
| :---: | :---: | :---: | :---: |
| 7 <br> WSW <br> 1/4-1/2 mi <br> 2204 <br> Higher | Name: <br> NCES ID: <br> Address: <br> School ID: <br> Telephone: <br> Local Code: <br> School Type: <br> School Level: <br> County: <br> Lowest Grade <br> Highest Grade | ```TERRA LINDA HIGH 063511005941 320 NOVA ALBION WAY SAN RAFAEL, CA 94903 7835 415-485-2370 Urban Fringe of Large City Regular Elementary and Secondary Schools High MARIN 09 :12``` | $\begin{aligned} & 063511005941 \\ & \text { CCD } \end{aligned}$ |
| 8 <br> West <br> 1/4-1/2 mi <br> 2364 <br> Higher | Name: ID: Site Type: | Nazareth House 15302 <br> Nursing home | NUR1004728 NURHOM |
| ```9 SSW 1/4-1/2 mi 2513 Higher``` | Name: <br> ID: <br> Site Type: <br> Latitude: <br> Longitude: | Nova Albion School 229799 school 37.99800 $-122.50000$ | GNS0211561 GNIS_SCH |
| 10 <br> WNW <br> $1 / 2-1 \mathrm{mi}$ <br> 3052 <br> Higher | Name: <br> ID: <br> Site Type: <br> Latitude: <br> Longitude: | Don Timoteo School 222491 school 38.00800 $-122.60000$ | GNSO178194 GNIS_SCH |
| 11 <br> NW <br> $1 / 2-1 \mathrm{mi}$ 3432 <br> Higher | Name: <br> ID: <br> Site Type: | ST ISABELLA SCHOOL 1032 <br> Private sch. | $\begin{aligned} & \text { PRV1005620 } \\ & \text { PRV_SCH } \end{aligned}$ |
| 12 <br> NNE <br> 1/2-1 mi <br> 3563 <br> Higher | Name: <br> ID: <br> Site Type: | MONTESSORI IN MOTION <br> 210111602 <br> Daycare ctr | DAY1036075 DAYCARE |
| 13 <br> NE <br> $1 / 2-1 \mathrm{mi}$ <br> 3623 <br> Higher | Name: <br> ID: <br> Site Type: | TWIN OAKS CHILDREN'S CENTER-PRESCHOOL 213000472 <br> Daycare ctr | DAY1036082 DAYCARE |

## MAP FINDINGS

| Map ID Direction Distance Distance ( ft .) Elevation | Site |  | EDR ID <br> Database |
| :---: | :---: | :---: | :---: |
| 14 <br> West <br> $1 / 2-1 \mathrm{mi}$ <br> 3637 <br> Higher | Name: <br> ID: <br> Site Type: | ROBIN'S NEST OF TERRA LINDA 210108299 <br> Daycare ctr | DAY1036101 DAYCARE |
| 15 <br> WNW <br> $1 / 2-1 \mathrm{mi}$ <br> 3663 <br> Higher | Name: <br> ID: <br> Site Type: | $\begin{aligned} & \text { ST MARK S SCHOOL } \\ & 1033 \\ & \text { Private sch } \end{aligned}$ | $\begin{aligned} & \text { PRV1005621 } \\ & \text { PRV_SCH } \end{aligned}$ |
| $\begin{aligned} & 16 \\ & \mathrm{SE} \\ & 1 / 2-1 \mathrm{mi} \\ & 3807 \\ & \text { Higher } \end{aligned}$ | Name: <br> ID: <br> Site Type: | MERRY TIMES PRESCHOOL ACADEMY <br> 210111422 <br> Daycare ctr | DAY1036128 DAYCARE |
| 17 <br> NNW <br> $1 / 2-1 \mathrm{mi}$ 3897 <br> Higher | Name: <br> ID: <br> Site Type: <br> Latitude: <br> Longitude: | Hoffman School 225386 school 38.01400 $-122.50000$ | GNSO191085 GNIS SCH |
| B18 <br> NE <br> $1 / 2-1 \mathrm{mi}$ <br> 3983 <br> Higher | Name: ID: Site Type: | Pine Ridge Care Center 15304 <br> Nursing home | NUR1004722 NURHOM |
| B19 <br> NE <br> $1 / 2-1 \mathrm{mi}$ <br> 3990 <br> Higher | Name: <br> ID: <br> Site Type: | Hillside Care Center 15301 Nursing home | NUR1004721 NURHOM |
| 20 NNW $1 / 2-1 \mathrm{mi}$ 4113 Higher | Name: <br> NCES ID: <br> Address: <br> School ID: <br> Telephone: <br> Local Code: <br> School Type: <br> School Level: <br> County: <br> Lowest Grade <br> Highest Grade | JUVENILE HALLCOMMUNITY 069101809230 <br> 1111 LAS GALLINAS AVE <br> SAN RAFAEL, CA 94903 <br> 7852 <br> 415-491-0581 <br> Urban Fringe of Large City Other High MARIN | $069101809230$ |

## RECORDS SEARCHED/DATA CURRENCY TRACKING

## CENSUS

Source: U.S Census Bureau
Telephone: 301-457-4100
1990 U S Census data was used to estimate residential population following these EPA guidelines:
"Census data are presented by Census tract If your circle covers only a portion of the tract, you should develop an estimate for that portion Determine the population density per square mile (fotal population of the Census tract divided by the number of square miles in the tract) and apply that density figure to the number of square miles within your circle "
FED_LAND: Federal Lands
Source: USGS
Telephone: 703-648-5094
Federal lands data Includes data from several Federal land manangement agencies, including Fish and Wildife Service, Bureau of Land Management, National Park Service, and Forest Service Includes National Parks, Forests, Monuments; Wildlife Sanctuaries, Preserves, Refuges; Federal Wilderness Areas
Date of government version: 09/09/97
HCFA: Provider of Services Listing
Source: The Health Care Financing Administration
Telephone: 410/786-3000
A listing of hospitals with Medicare provider number, produced by The Health Care Financing Administration
(HCFA), a federal agency within the U.S. Department of Health and Human Services
HCFA runs the Medicare and Medicaid programs
Date of government version: 06/01/98
CCD: Common Core of Data
Source: National Center for Education Statistics
555 New Jersey Avenue NW
Washington, DC 20208-5651
The Common Core of Data (CCD) is the National Center for Education Statistics' primary database on elementary
and secondary public education in the United States CCD is a comprehensive, annual, national statistical
database of all public elementary and secondary schools and school districts, which contains data that are
comparable across all states
Date of government version: 1995-96
GNIS: Geographic Names Information System
Source: USGS
Telephone: 703-648-5094
The Geographic Names Information System (GNIS), developed by the USGS in cooperation with the US. Board on Geographic Names (BGN), contains information about almost 2 million physical and cultural geographic features in the United States. The GNIS is our Nation's official repository of domestic geographic names information. Date of government version: 03/01/98

## PRV SCH: Private Schools

EDR indicates the location of buildings and facilities - private schools - where individuals who are public receptors are likely to be located
DAYCARE: Daycare Centers
EDR indicates the location of buildings and facilities - daycare centers - where individuals who are public receptors are likely to be located.

## MEDCEN: Medical Centers

EDR indicates the location of buildings and facilities - medical centers - where individuals who are public receptors are likely to be located
NURSING: Nursing Homes
EDR indicates the location of buildings and facilities - nursing homes - where individuals who are public receptors are likely to be located

## ARENA: Arenas

EDR indicates the location of buildings and facilities - arenas - where individuals who are public receptors are likely to be located
PRISON: Prisons
EDR indicates the location of buildings and facilities - prisons - where individuals who are public receptors are likely to be located.

BOP: Bureau of Prisons Facilities
Source: Federal Bureau of Prisons
List of facilities operated by the Federal Bureau of Prisons.
Date of government version: 07/01/98.

Mr. Tae Kim<br>Macerich Management Company<br>401 Wilshire Boulevard, Suite 700<br>Santa Monica, CA 90401<br>RE: Hazardous Materials Survey<br>The Mall at Northgate<br>San Rafael, California

Dear Mr. Kim:
RGA Environmental, Inc. (RGA) conducted a hazardous materials survey at The Mall at Northgate located in San Rafael, California. Remington Caldwell and Max Jakovleski, with RGA conducted the survey between July 27, 2007 and August 15, 2007.

Over the course of the survey, approximately six (6) suspect PCB transformers were observed in the catwalks of the mall. No other suspect PCB transformers were observed in the common areas or tenant spaces of the mall. Additionally, RGA observed no fluorescent light fixtures with PCB light ballasts. Mall maintenance personnel had informed RGA that fluorescent light tubes with PCB ballasts are non-existent, and that light fixtures throughout the mall were replaced during a 2000-2001 retrofit. To supplement this claim RGA noted that newer, non-PCB fluorescent light fixtures were observed functioning in rarely accessed and unoccupied spaces within the mall. A total of 450 fluorescent light tubes were inventoried at the time of the survey.

In addition, RGA collected four (4) painted surface samples. Table I below provides a summary of the results of the lead paint samples. The paint samples were submitted and analyzed for total lead by LA Testing in South Pasadena, California. LA Testing is accredited by the American Industrial Hygiene Association’s (AIHA's) Environmental Lead Laboratory Accreditation Program (ELLAP) for the analysis of lead in paint chips, dust wipes, and/or soil. All of the paint samples were analyzed for lead content by Flame Atomic Absorption spectroscopy (FLAA) in accordance to EPA Method SW846-7420. Lead content was reported in all of the samples.

Table I
Lead in Paint Sample Results

| Sample No. | Location | Description | Result (ppm) |
| :---: | :---: | :---: | :---: |
| 257580 | South Catwalk | Red Paint on Steel | 340,000 |
| 257567 | East Catwalk | Brown Paint on Steel | 250,000 |
| 259087 | Archives | Orange Paint on Steel | 420,000 |
| 257579 | Electrical Utility Boxes | Gray Paint on Steel | 5,800 |

During the survey, RGA attempted to inventory potentially hazardous chemicals in mall common areas, accessible tenant spaces, maintenance closets and unoccupied units. RGA determined that chemicals in quantities greater than 0.5 gallons were not present in all the aforementioned areas. Generally, maintenance personnel use the majority of potentially hazardous chemicals located on site in a janitorial capacity. RGA contacted Edwin Acosta, Assistant Facilities Manager of SMS Maintenance, the janitorial services contractor for the mall. RGA was informed by SMS that the primary chemical storage is located under the southwest covered parking lot, external to the area covered under RGA's survey. Based on Mr. Acosta's assessment, it is RGA's understanding that the following chemicals are present in the approximate amounts in SMS maintenance's storage area: five (5) gallons of gasoline, one (1) quart glass cleaner, seven (7) gallons of paint, one (1) gallon of acetone, two (2) pounds all-purpose fiberglass resin, and eight (8) 8.5 ounce bottles of graffiti remover.

The results of this report and the opinions expressed are based upon visual observations of the property and scope of services described herein. Some of the observations and information have been provided by the client's representative and serve as a basis for this report.

RGA appreciates this opportunity to provide our environmental consulting services. If you have any questions or need additional information, please feel free to call me at 510-899-7012.

Respectfully,
RGA Environmental, Inc.

Tedd Kattchee
Project Manager

Attachments: Laboratory reports and chain-of-custody forms

LA Testing

159 Pasadena Avenue, South Pasadena, CA 91030
Phone: (323) 254-9960 Fax: (323) 254-9982 Email: pasadenalab@latesting.com
T. Kattchee

RGA Environmental, Inc.
1466 66th Street
Emeryville, CA 94608
Fax: (510) 899-7063 Phone: (510) 899-7000
Project: Mall @ Northgate/Macer 17031

Customer ID: 32RGAE72
Customer PO:
Received: 08/20/07 4:00 PM
LA Testing Order: 320709593
LA Testing Proj:

Report Date: 8/22/2007

## Total Threshold Limit Concentration

| Client Sample Description | Lab ID | Collected | Analyzed | Lead Concentration |
| :---: | :---: | :---: | :---: | :---: |
| 257580 | 0001 | 8/1/2007 | 8/21/2007 | 340000 ppm |
| S Catwalks |  |  |  |  |
| 257567 | 0002 | 8/1/2007 | 8/21/2007 | 250000 ppm |
| E Catwalks |  |  |  |  |
| 259087 | 0003 | 8/1/2007 | 8/21/2007 | 420000 ppm |
| Archives |  |  |  |  |
| 257579 | 0004 | 8/1/2007 | 8/21/2007 | 5800 ppm |
| Electrical Utility Boxes |  |  |  |  |



Derrick Tanner, Laboratory Manager or other approved signatory


Project Name/Address: Mall e Nortipate
RGA Project \#: $\qquad$ MACE $17 \$ 31$ Sampled By: $\qquad$ M. Takorles/s' Sampling Date:
 Sample (s) Sent To: XEMSL $\qquad$ Other: $\qquad$ TAT: $\qquad$ Rush $\qquad$ 24 Hrs $\times \sqrt{3}-5$ Days ***FAX OR E-MAIL REPORT TO: SEE ABOVE PROJECT MANAGER (PM)*** ***ADDITIONAL REPORT RECIPIENT (S): $\qquad$ ***

$\qquad$ Signature?
Signature:
 Date/Time: $8 / 17 / 27 / 680$
Date/Time: $8 / 20 / 07 \mathrm{c} / \mathrm{c} / 30 \mathrm{am}$ Signature: $\qquad$ Date/Time: $\qquad$
Received By: $\qquad$ Signature: $\qquad$ Date/Time: $\qquad$

Mr. Ralph Lambert<br>Regional Water Quality Control Board - San Francisco Bay Region (RWQCB-SFBR) 1515 Clay St., Suite 1400<br>Oakland, CA 94612

## Re: Second Quarter 2008 Groundwater Monitoring Report

Chevron Service Station \#9-3553
949 Del Presidio Boulevard
San Rafael, California
RWQCB File \#21-0166
Dear Mr. Lambert:
On behalf of Chevron Environmental Management Company (Chevron), Conestoga-Rovers \& Associates (CRA) is submitting this Second Quarter 2008 Groundwater Monitoring Report for the referenced site. Groundwater monitoring data was collected on June 10, 2008 by Gettler-Ryan Inc. (G-R) of Dublin, California. As requested in RWQCB Minimum Reporting Requirement memorandum dated March 26, 2007, detailed below are a brief site history and background, a description of current quarterly monitoring activities, conclusions and anticipated future activities.

## SITE BACKGROUND

## Site Description

The site is currently operated as an active Chevron service station, owned by Chevron USA, located on the southwest corner of the intersection of Del Presidio Boulevard and Freitas Parkway in San Rafael, California (Figure 1). Site facilities include a kiosk, five dispenser islands and four 10,000 -gallon underground storage tanks (USTs) dispensing multi-grade gasoline and diesel. According to Chevron's records, in 1983 the station was constructed in its current configuration with three 10,000 -gallon USTs. No records of site development prior to 1983 are available. One additional 10,000 -gallon UST was installed in 1987. The site is bordered by commercial properties, including a Union 76-branded service station to the southwest, a Shell service station to the east, a Valero service station (formerly Exxon) to the south/southeast and a commercial building above an open air parking garage to the northwest. Freitas Parkway is immediately north of the site (Figure 2). The Shell and Union 76 stations have open and active RWQCB cases. In May 2008, site closure was requested at the Valero Station by Groundwater \& Environmental Services, Inc. of Concord, California. Valero wells are no longer being sampled.

## Site Geology and Hydrogeology

Soils beneath the site consist primarily of silt, gravelly silt, clayey sand, clayey sand with gravel and sandy clay to the total explored depth of 25 feet below grade (fbg). Depth to groundwater beneath the site has ranged from 5.3 fbg to approximately 12 fbg since monitoring began in 1998. Groundwater elevations measured in on-site wells have produced a calculated gradient varying from north-northwest to west. Groundwater elevation data from adjacent properties indicate a westerly to south-westerly gradient, with a groundwater elevation high at the Shell station (CRA Figure 3).

## Investigation Summary

1997 Unauthorized Release: In September 1997, in preparation for installation of site upgrades, Chevron collected a groundwater sample from a tankfield backfill well piezometer. The groundwater sample contained concentrations of 560 micrograms per liter ( $\mu \mathrm{g} / \mathrm{L}$ ) benzene and $100,000 \mu \mathrm{~g} / \mathrm{L}$ methyl-tert butyl ether (MTBE). Details are reported in the Unauthorized Release - Follow-up, Form Submittal submitted to the San Rafael Fire Department on September 18, 1997.

1997 Pump Island and Piping Removal, Replacement and Limited Excavation: In October 1997, on behalf of Chevron, Town and Country Contractors of Sacramento conducted fuel dispenser upgrade activities including dispenser and associated product piping removal and replacement and the excavation of approximately 75 -cubic yards of soil and pea gravel. Compliance soil samples collected by Touchstone Developments (Touchstone) during excavation activities contained only minor concentrations of petroleum hydrocarbons. The excavated soil was disposed of at Redwood Landfill in Novato, California. Details of these activities are reported in Touchstone Development's October 31, 1997 Product Piping/Dispenser Replacement and Sampling Report.

1998 Monitoring Well Installation and Limited Subsurface Investigation: In March 1998, on behalf of Chevron, Gettler-Ryan (G-R) of Dublin, California advanced soil borings MW-1 through MW-4 to 19 fbg and boring B1 to 15 fbg , converting borings MW-1 through MW-4 into groundwater monitoring wells. Soil samples collected contained maximum concentrations of 91 milligrams per kilogram ( $\mathrm{mg} / \mathrm{kg}$ ) total petroleum hydrocarbons as diesel (TPHd) in MW-4 at $15.5 \mathrm{fbg}, 3.8 \mathrm{mg} / \mathrm{kg}$ total petroleum hydrocarbons as gasoline (TPHg) in MW-3 at $9 \mathrm{fbg}, 0.15 \mathrm{mg} / \mathrm{kg}$ benzene and $0.57 \mathrm{mg} / \mathrm{kg}$ MTBE in MW-3 at 4.5 fbg , and $100 \mathrm{mg} / \mathrm{kg}$ chromium at 5 fbg in boring B-1. TPHg was detected groundwater samples from MW-2 at a maximum concentration of 3,700 $\mu \mathrm{g} / \mathrm{L}$. TPHd was detected in all wells at concentrations ranging from 1,200 to $2,800 \mu \mathrm{~g} / \mathrm{L}$. Benzene and MTBE were detected in all wells at maximum concentrations of $510 \mu \mathrm{~g} / \mathrm{L}$ and $33,000 \mu \mathrm{~g} / \mathrm{L}$, respectively. Details of these activities are reported in Gettler-Ryan's August 6, 1998 Limited Subsurface Investigation Report.

2007 Monitoring Well Installation and Subsurface Investigation: In August 2007, on behalf of Chevron, CRA advanced on-site borings MW-5 and MW-6 to 20 fbg and SB-1 through SB-3 to a maximum depth of 25 fbg ,

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\& ASSOCIATES
converting borings MW-5 and MW-6 into groundwater monitoring wells. SB-3 was advanced near boring B-1 (1998) at the location of the former used-oil tank pit. Soil samples collected contained maximum concentrations of $480 \mathrm{mg} / \mathrm{kg}$ TPHg in SB-1 at 11 fbg and $73 \mathrm{mg} / \mathrm{kg}$ TPHd in SB-3 at 10 fbg . Chromium was detected in SB-3 at a concentration of $146 \mathrm{mg} / \mathrm{kg}$ at 5 fbg in soil and at a concentration of $8,330 \mu \mathrm{~g} / \mathrm{L}$ in groundwater. Grabgroundwater samples collected from SB-3 contained the highest detections of hydrocarbon concentrations: $21,000 \mu \mathrm{~g} / \mathrm{L} \mathrm{TPHg}, 250,000 \mu \mathrm{~g} / \mathrm{L}$ TPHd, $730 \mu \mathrm{~g} / \mathrm{L}$ benzene and $1,300 \mu \mathrm{~g} / \mathrm{L}$ MTBE. TBA was reported up to $1,300 \mu \mathrm{~g} / \mathrm{L}$ in a grab-groundwater sample from SB-2. CRA recommended the installation of an off-site downgradient well and continued quarterly monitoring and sampling of the newly installed monitoring wells. More information is available in CRA's September 13, 2007 Subsurface Investigation Report.

2008 Monitoring Well Installation and Subsurface Investigation: In April 2008, in response to RWQCB requests, CRA, on behalf of Chevron, installed on-site monitoring well MW-7 to 21.5 fbg . Maximum hydrocarbon concentrations detected in soil were $200 \mathrm{mg} / \mathrm{kg} \mathrm{TPHg}$ and $190 \mathrm{mg} / \mathrm{kg}$ TPHd. Hydrocarbon concentrations reported in grab-groundwater samples from well MW-7 included $4,800 \mu \mathrm{~g} / \mathrm{L} \mathrm{TPHg}, 2,300 \mu \mathrm{~g} / \mathrm{L}$ TPHd, $170 \mathrm{ug} / \mathrm{L}$ benzene, $160 \mathrm{ug} / \mathrm{L}$ MTBE, and $33.5 \mathrm{ug} / \mathrm{L}$ chromium. CRA recommended scheduling of concurrent groundwater monitoring at the nearby Shell, Valero and Union 76 stations. A complete description of findings is available in CRA's May 16, 2008 Well Installation and First Quarter 2008 Groundwater Monitoring Report.

## CURRENT QUARTER ACTIVITIES

## Groundwater Monitoring and Sampling Results

Groundwater Monitoring: G-R gauged and sampled Chevron wells MW-1 though MW-7 on June 10, 2008. Concurrent groundwater gauging data was collected from the Shell, Valero, and 76 stations on June 10, 2008. On-site groundwater elevations ranged from 16.26 ft above mean sea level (msl) in MW-6 to 21.04 ft above msl in MW-5. Well construction details and groundwater elevation are presented in Attachment A. Comparing the groundwater elevations of all sites, the elevation ranged from 16.26 ft above msl at Chevron well MW-6 to 27.86 ft above msl in Shell well MW-4. Using site groundwater monitoring data from all four sites, groundwater flow direction on-site was calculated towards the northwest at a gradient varying from 0.01 to 0.07 feet per feet (ft/ft) (June 10, 2008). GR's Groundwater Monitoring and Sampling Report - Second Quarter Event of June 10, 2008 is presented as Attachment B. Results of groundwater sampling are presented below.

TPHg Analytical Results: TPHg was detected in all site wells at concentrations ranging from $61 \mu \mathrm{~g} / \mathrm{L}$ in well MW-5 to $6,000 \mu \mathrm{~g} / \mathrm{L}$ in MW-3. TPHg concentrations generally decreased in wells MW-1, MW-3 and MW-4 in comparison to the previous quarter and are generally consistent with previous results in the other site wells. The observed concentrations are within historical ranges and are consistent with seasonal fluctuations.

TPHd Analytical Results: TPHd was detected in all site wells at concentrations ranging from $63 \mu \mathrm{~g} / \mathrm{L}$ in well MW-5 to $2,000 \mu \mathrm{~g} / \mathrm{L}$ in MW-3. TPHd concentrations are generally consistent with the previous quarter results and were within historical ranges.

Benzene Analytical Results: No benzene concentrations were detected during this sampling event in wells MW-4, MW-5, and MW-6. Benzene was detected in wells MW-1, MW-2, MW-3 and MW-7 at concentrations ranging from $1 \mu \mathrm{~g} / \mathrm{L}$ in MW-1 to $330 \mu \mathrm{~g} / \mathrm{L}$ in well MW-3. These concentrations are within historical ranges and are consistent with seasonal fluctuations.

Oxygenate Analytical Results: MTBE was detected in all site wells at concentrations ranging from $5 \mu \mathrm{~g} / \mathrm{L}$ in well MW-5 to $560 \mu \mathrm{~g} / \mathrm{L}$ in well MW-3. TBA was detected in all site wells at concentrations ranging from $130 \mu \mathrm{~g} / \mathrm{L}$ in well MW-5 to $6,900 \mu \mathrm{~g} / \mathrm{L}$ in MW-3. The concentrations of TBA and MTBE are within historical ranges and are consistent with seasonal fluctuations

## Conclusions of Quarterly Activities

Plume definition: The extent of dissolved hydrocarbons, whether originating from Chevron, Shell, Valero, Union 76 or a commingling of all four, has been defined to relatively low concentrations to the north by MW-5 and MW-6, except for MTBE, to the east by boring SB-1, to the southeast and south by Valero wells EA-9 and EA-10, to the southwest by Valero wells EA-9 and EA-11, and to the west by MW-1. The site is not fully defined to the northwest of the Chevron site (CRA Figure 4). Isoconcentration maps are presented as G-R Figures 2 through 4 in Attachment B.

Environmental Screening Levels: CRA compared hydrocarbon concentrations in groundwater with ESLs where groundwater is a potential source of drinking water for commercial/industrial land use ${ }^{1}$. The following table compares hydrocarbon concentrations where groundwater is a current or potential source of drinking water to dissolved phase concentrations from this event.

[^2]| Table A: Summary of Environmental Screening Levels |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | TPHd | TPHg | Benzene | Toluene | Ethyl- <br> benzene | Xylenes | MTBE | TBA |  |
| MW-1 | $\mathbf{1 7 0}$ | $\mathbf{3 0 0}$ | $\mathbf{1}$ | .25 | $<0.5$ | $<0.5$ | $\mathbf{8 2}$ | $\mathbf{2 0 0}$ |  |
| MW-2 | $\mathbf{5 5 0}$ | $\mathbf{1 , 0 0 0}$ | $\mathbf{1 3}$ | 3 | 2 | 3 | $\mathbf{5 3}$ | $\mathbf{1 8 0}$ |  |
| MW-3 | $\mathbf{2 , 0 0 0}$ | $\mathbf{6 , 0 0 0}$ | $\mathbf{3 3 0}$ | 3 | $\mathbf{7 6}$ | 11 | $\mathbf{5 6 0}$ | $\mathbf{6 , 9 0 0}$ |  |
| MW-4 | $\mathbf{8 0 0}$ | $\mathbf{2 , 6 0 0}$ | $<0.5$ | 1 | $<0.5$ | 0.8 | $\mathbf{1 4}$ | $\mathbf{4 7 0}$ |  |
| MW-5 | 63 | 61 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ | $\mathbf{5}$ | $\mathbf{1 3 0}$ |  |
| MW-6 | 77 | 68 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ | $\mathbf{5 5 0}$ | $\mathbf{5 7 0}$ |  |
| MW-7 | $\mathbf{1 , 4 0 0}$ | $\mathbf{3 , 2 0 0}$ | $\mathbf{2 0 0}$ | 3 | $\mathbf{1 3 0}$ | 11 | $\mathbf{3 3 0}$ | $\mathbf{2 1 0}$ |  |
| ESLs for <br> Ground <br> water ( $\mu \mathrm{g} / \mathrm{l})$ | $\mathbf{1 0 0}$ | $\mathbf{1 0 0}$ | $\mathbf{1 . 0}$ | $\mathbf{4 0}$ | $\mathbf{3 0}$ | $\mathbf{2 0}$ | $\mathbf{5}$ | -- |  |

TPHd and TPHg concentrations are defined by wells MW-5 and MW-6 to the north, but remain at concentrations above ESLs in wells MW-2, MW-3, MW-4 and MW-7. MTBE is highest in source area well MW-3 and crossgradient well MW-6.

Concentration Trends: Historical and current concentration trends for TPHd, TPHg, benzene and MTBE in groundwater versus time are shown for MW-1, MW-2, MW-3, and MW-4 on the graphs below. The trend graph for MW-3 also includes tertiary butyl alcohol (TBA), a degradation product of MTBE. Seasonal groundwater fluctuations continue to affect concentrations in groundwater on-site; however, overall a decreasing trend in each of these wells is evident.


Concentrations in MW-1 show overall stable to decreasing trends. Fluctuations in concentrations are mainly attributed to seasonal changes in groundwater elevation. TPHg in MW-1 increased by one order of magnitude during the previous quarterly event; however, during this quarter, concentrations decreased to the normal range associated with fluctuating groundwater concentrations. Well MW-1 appears to be down-gradient of the adjacent Union 76 station.


Concentrations in MW-2 also exhibit decreasing trends. Fluctuations correlate with seasonal changes in groundwater elevation. MW-2 is an up-gradient well on the Chevron site but appears to be down-gradient of the Shell station.


TPHg, benzene, TPHd and TBA concentrations are increasing slightly in well MW-3; however, are within historical ranges. MTBE concentrations are decreasing in MW-3. TBA/MTBE ratios have been useful in interpreting biodegradation of MTBE. Although more information is necessary to determine if this is occurring, trends suggest that a favourable environment for natural attenuation may exist in the subsurface. MW-7, located near the former used-oil tank, will help to further define on-site conditions as trends are established.


MTBE and benzene concentrations in MW-4 indicate decreasing trends. TPHg and TPHd concentrations are relatively stable, and correlation with seasonal changes in groundwater elevations is evident.

## RECOMMENDATIONS AND ANTICIPATED FUTURE ACTIVITIES

Offsite Investigation: Upon completion access agreement negotiations with the adjacent property to the northwest, CRA will conduct an offsite investigation to determine the extent, if any, of hydrocarbon impact. CRA will inform the RWQCB when agreement negotiations are finalized and when field work is scheduled.

Groundwater Monitoring: CRA recommends continuing quarterly groundwater monitoring and sampling at this site. G-R will continue to gauge and sample site wells during a joint monitoring event with the Shell, Union-76, and Valero stations. G-R will prepare a monitoring and sampling report upon completion. CRA will prepare a summary of site conditions and submit the sampling report with additional recommendations within 60 days of the sampling date.

## CONESTOGA-ROVERS

\& ASSOCIATES

## CLOSING

Please contact Ryan Sparrow at (510) 420-3332 or via email at rsparrow@craworld.com if you have any questions or comments.

Sincerely,
Conestoga-Rovers \& Associates


Christine Orlowski


Figures: $\quad$ Figure 1 - Site Vicinity Map
Figure 2 - Expanded Site Plan
Figure 3 - Flow Map
Figure 4 - Site Plan with Soil/Groundwater Tables
$\begin{array}{ll}\text { Attachment: } & \text { A- Well Construction Details and Groundwater Elevation } \\ \text { B-Gettler-Ryan's Groundwater Monitoring and Sampling Report -- Second Quarter }\end{array}$ Sampling Event of June 10, 2008
cc: Mr. Aaron Costa, Chevron Environmental Management Company, 6111 Bollinger Canyon Road BRY-3660, San Ramon, CA 94583
Mr. Michael Frost, Marin County Office of Waste Management, P.O. Box 4186, SanRafael, CA 94913-4186
i: \chevro n\9-3553 san rafael $19-3553$ sw data \2008\2q08\9-3553 2q08 mr final 8608 .doc

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\& ASSOCIATES

## FIGURES




figure 3
FLOW MAP - JUNE 10, 2008 CHEVRON SERVICE STATION 9-3553 949 DEL PRESIDIO BOULEVARD San Rafael, California


311728-2008(PRESO03)GN-WA008 JUL 29/2008

CONESTOGA-ROVERS \& ASSOCIATES

## ATTACHMENT A

## Well Construction Details and Groundwater Elevation

Attachment A
Well Construction Details and Groundwater Elevation
Chevron Station 9-3553
$5 \quad 6$
7


## ATTACHMENT B

## Gettler-Ryan's Groundwater Monitoring and Sampling Report Second Quarter Event of June 10, 2008

## Gettler-Ryan Inc.

TRANSMITTAL<br>July 15,2008<br>G-R \#386446

TO: Ms. Lelia Pascale<br>Conestoga-Rovers \& Associates<br>5900 Hollis Street, Suite A<br>Emeryville, California 94608

| FROM: | Deanna L. Harding | RE: |
| :--- | :--- | :--- |
|  | Chevron Service Station |  |
|  | \#9-3553 |  |

WE HAVE ENCLOSED THE FOLLOWING:
COPIES DATED DESCRIPTION

4
July 10, 2008
Groundwater Monitoring and Sampling Report Second Quarter Event of June 10, 2008

## COMMENTS:

Pursuant to your request, we are providing you with copies of the above referenced report for your use and distribution to the following (including PDF submittal of the entire report to GeoTracker):

Mr. Aaron Costa, Chevron EMC, 6111 Bollinger Canyon Road, Room 3660, San Ramon, CA 94583
CUPA, Marin County Public Works, 3501 Civic Center, Room 304, San Rafael, CA 94903
Mr. John Jang, RWQCB - San Francisco Bay Region, 1515 Clay Street, Suite 1400, Oakland, CA 94612

Enclosures

Client/Facility \#: Chevron \#9-3553
Site Address: 949 Del Presidio Blvd.
City:
San Rafael, CA

Job \# 386446
Event Date: $\quad 6.10 .8$
Sampler: FT

WELL VAULT
Pictures Taken Yes/ No

Comments $\qquad$
$\qquad$
$\qquad$

Gettler-Ryan Inc.

Mr. Aaron Costa
Chevron Environmental Management Company
6111 Bollinger Canyon Road, Room 3660
San Ramon, CA 94583

## RE: Second Quarter Event of June 10, 2008

Groundwater Monitoring \& Sampling Report
Chevron Service Station \#9-3553
949 Del Presidio Boulevard
San Rafael, California

## Dear Mr. Costa:

This report documents the most recent groundwater monitoring and sampling event performed by Gettler-Ryan Inc. (G-R) at the referenced site. All field work was conducted in accordance with G-R Standard Operating Procedure - Groundwater Sampling (attached). A joint groundwater monitoring event was conducted with Shell Service Station, located at 950 Del Presidio Boulevard, Valero Station \#13781, located at 930 Del Presidio Boulevard and 76 Station \#4774 ay Del Presidio Boulevard. San Rafael, California.

Static groundwater levels were measured and the wells were checked for the presence of separate-phase hydrocarbons. Static water level data, groundwater elevations, and separate-phase hydrocarbon thickness (if any) are presented in the attached Table 1. A Potentiometric Map is included as Figure 1.

Groundwater samples were collected from the monitoring wells and submitted to a state certified laboratory for analyses. The field data sheets for this event are attached. Analytical results are presented in the table(s) listed below. Isoconcentration Maps are included as Figure 2, 3 and 4. The chain of custody document and laboratory analytical report are also attached. All groundwater and decontamination water generated during sampling activities was removed from the site, per the Standard Operating Procedure.

Please call if you have any questions or comments regarding this report. Thank you.
Sincerely,




Deanna L. Harding Project Coordinator


Senior Geologist, P.G. No. 6882


Figure 1: Potentiometric Map
Figure 2: TPH-G Isoconcentration Map
Figure 3: TPH-D Isoconcentration Map
Figure 4: MTBE Isoconcentration Map
Table 1: Groundwater Monitoring Data and Analytical Results
Table 2: Groundwater Analytical Results - Oxygenate Compounds
Table 3: Joint Groundwater Monitoring Data - Shell Service Station
Table 4: Joint Groundwater Monitoring Data - Valero Station \#13781
Table 5: Joint Groundwater Monitoring Data - 76 Station \#4774
Attachments: Standard Operating Procedure - Groundwater Sampling
Field Data Sheets
Chain of Custody Document and Laboratory Analytical Reports





Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station \#9-3553
949 Del Presidio Boulevard

| WELL ID <br> DATE | TOC | GWE | bTW | TRHD | THG | $\text { (p } \mathrm{B} \text { ( }$ | (ppb) | (tepb) | $\begin{array}{r} \mathrm{X} \\ \hline p p b) \end{array}$ | $\begin{gathered} \mathrm{MTBE} \\ (p p b) \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| MW-1 |  |  |  |  |  |  |  |  |  |  |
| 03/18/98 | 27.97 | 20.58 | 7.39 | $1,200^{2}$ | 840 | 88 | 11 | 7.2 | 69 | 17 |
| 06/21/99 | 27.97 | 18.90 | 9.07 | $269{ }^{2}$ | 283 | 9.57 | <1.0 | $<1.0$ | 2.7 | 360 |
| 09/27/99 | 27.97 | 18.60 | 9.37 | $103^{2}$ | 704 | $<2.5$ | $<2.5$ | $<2.5$ | <2.5 | 451 |
| 12/17/99 | 27.97 | 17.33 | 10.64 | $140^{2}$ | 184 | 9.58 | 2.63 | 1.22 | 2.37 | 228 |
| 03/28/00 | 27.97 | 20.55 | 7.42 | $270^{2}$ | 498 | 27.50 | 1.19 | $<1.0$ | 8.03 | 246 |
| 06/22/00 | 27.97 | 19.76 | 8.21 | 466 | $324{ }^{3}$ | 2.65 | $<1.00$ | $<1.00$ | 1.79 | 274 |
| 09/26/00 | 27.97 | 18.16 | 9.81 | $356{ }^{6,7,8}$ | 190 | $2.03^{4}$ | $<1.00$ | $<1.00$ | $<1.00$ | 275 |
| 12/21/00 | 27.97 | 19.13 | 8.84 | $170^{10}$ | 105 | $<1.00$ | <1.00 | <1.00 | $<1.00$ | 253 |
| 03/23/01 | 27.97 | 20.40 | 7.57 | $140^{12}$ | 464 | 21.8 | 1.25 | 0.609 | 6.09 | 354 |
| 06/22/01 | 27.97 | 18.65 | 9.32 | $300^{13}$ | $<250$ | $<2.5$ | $<2.5$ | $<2.5$ | $<2.5$ | $300 / 260^{14}$ |
| 09/15/01 | 27.97 | 17.37 | 10.60 | $64^{8}$ | 98 | 0.97 | $<0.50$ | 0.56 | 0.67 | $390 / 320^{14}$ |
| 12/08/01 | 27.97 | 20.45 | 7.52 | 610 | 260 | 11 | 1.1 | $<0.50$ | 4.2 | $300 / 280^{14}$ |
| 03/06/02 | 27.97 | 20.00 | 7.97 | 310 | 220 | 8.1 | $<0.50$ | $<0.50$ | 2.9 | $280 / 320^{14}$ |
| 06/17/02 | 27.97 | 18.95 | 9.02 | 330 | 380 | 4.3 | $<0.50$ | $<0.50$ | $<1.5$ | $260 / 320^{14}$ |
| 09/16/02 | 27.97 | 17.98 | 9.99 | 220 | 330 | 2.6 | $<0.50$ | $<0.50$ | $<1.5$ | 290/270 ${ }^{14}$ |
| 12/23/02 | 27.97 | 19.07 | 8.90 | 360 | 150 | 5.2 | $<0.50$ | $<0.50$ | $<1.5$ | 290/260 ${ }^{14}$ |
| 03/05/03 | 27.97 | 20.26 | 7.71 | 700 | 820 | 31 | 1.8 | $<2.0$ | 9.4 | 260/240 ${ }^{14}$ |
| $06 / 14 / 03^{15}$ | 27.97 | 19.16 | 8.81 | 360 | 180 | 2 | $<0.5$ | $<0.5$ | 0.7 | 240 |
| 09/03/03 ${ }^{15}$ | 27.97 | 17.98 | 9.99 | 400 | 180 | 0.9 | $<0.5$ | $<0.5$ | $<0.5$ | 290 |
| $12 / 01 / 03^{15}$ | 27.97 | 17.55 | 10.42 | 580 | 140 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ | 230 |
| $03 / 01 / 04^{15}$ | 27.97 | 19.07 | 8.90 | 990 | 490 | 20 | 1 | $<0.5$ | 4 | 250 |
| $06 / 16 / 04^{15}$ | 27.97 | 18.47 | 9.50 | 660 | 680 | 0.8 | $<0.5$ | $<0.5$ | $<0.5$ | 260 |
| $09 / 10 / 04^{15}$ | 27.97 | 18.34 | 9.63 | 540 | 67 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ | 240 |
| 12/18/04 | 27.97 | INACCESS | - VEHIC | RKED OV | ELL | -- | --- | -- | -- | -- |
| $03 / 18 / 05^{15}$ | 27.97 | 19.41 | 8.56 | 280 | 69 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ | 180 |
| $06 / 30 / 05^{15}$ | 27.97 | 20.63 | 7.34 | $450^{16}$ | 80 | 2 | $<0.5$ | $<0.5$ | $<0.5$ | 180 |
| $09 / 30 / 05^{15}$ | 27.97 | 18.42 | 9.55 | $340^{16}$ | $<50$ | 0.5 | $<0.5$ | $<0.5$ | $<0.5$ | 170 |
| $12 / 28 / 05^{15}$ | 27.97 | 19.18 | 8.79 | $600^{16}$ | 95 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ | 160 |
| $03 / 20 / 06^{15}$ | 27.97 | 20.46 | 7.51 | 430 | 170 | 2 | 0.6 | $<0.5$ | 0.7 | 140 |
| $06 / 23 / 06^{15}$ | 27.97 | 20.10 | 7.87 | 130 | $<50$ | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ | 140 |
| 09/22/06 ${ }^{15}$ | 27.97 | 18.77 | 9.20 | 440 | $<50$ | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ | 87 |

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station \#9-3553
949 Del Presidio Boulevard
San Rafael, California

| WELL ID DATE | $\begin{aligned} & \mathrm{TOC} \\ & \text { (fit) } \end{aligned}$ | GWE | DTW <br> (fi.) | TPHe | TPH-G | B | (ppb) | ER | X | MTBE |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |


| MW-1 (cont) |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 12/27/06 ${ }^{15}$ | 27.97 | 19.92 | 8.05 | 340 | 78 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ | 51 |
| $03 / 28 / 07^{15}$ | 27.97 | 20.35 | 7.62 | 320 | $<50$ | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ | 57 |
| 06/11/07 ${ }^{15}$ | 27.97 | 18.43 | 9.54 | $61^{20}$ | 70 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ | 41 |
| $09 / 11 / 07^{35}$ | 27.77 | 17.19 | 10.58 | $300{ }^{20}$ | 180 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ | 70 |
| $12 / 11 / 07^{15}$ | 28.11 | 17.90 | 10.21 | $210^{20}$ | 370 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ | 64 |
| 03/10/08 ${ }^{15}$ | 28.11 | 19.38 | 8.73 | $170^{20}$ | 1,300 | 11 | 1 | $<0.5$ | 2 | 140 |
| 04/07/08 | 28.11 | 19.44 | 8.67 | -- | -- | -* | -" | -- | -- | -- |
| 06/10/08 ${ }^{15}$ | 28.11 | 18.78 | 9.33 | $170^{29}$ | 300 | 1 | $<0.5$ | $<0.5$ | $<0.5$ | 82 |

## MW-2

| 03/18/98 | 27.60 | 22.26 | 5.34 | 2,400 ${ }^{2}$ | 3,700 | 55 | 23 | 130 | 150 | 630 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 06/21/99 | 27.60 | 21.25 | 6.35 | $320^{2}$ | 3.580 | 29.7 | $<5.0$ | 30.9 | 22.3 | 168 |
| 09/27/99 | 27.60 | 19.09 | 8.51 | $1,920^{2}$ | 8,760 | 181 | 15.2 | 118 | 166 | 682 |
| 12/17/99 | 27.60 | 18.89 | 8.71 | $891{ }^{2}$ | 6,460 | 87.9 | 13.2 | 16.4 | 23.2 | 446 |
| 03/28/00 | 27.60 | 22.03 | 5.57 | $685^{2}$ | 3,080 | 21.1 | 20.9 | 12.5 | 12.2 | 275 |
| 06/22/00 | 27.60 | 20.93 | 6.67 | 1,250 | $8,930{ }^{3}$ | 118.0 | $14.9{ }^{4}$ | 53.0 | 74.4 | 504 |
| 09/26/00 | 27.60 | 19.28 | 8.32 | 1,810 6 6,79 | 6,700 | 217 | $21.9{ }^{4}$ | 67.5 | 78.5 | 833 |
| 12/21/00 | 27.60 | 21.67 | 5.93 | $<50$ | $501{ }^{8}$ | <2.50 | $<2.50$ | $<2.50$ | $<2.50$ | 74.4 |
| 03/23/01 | 27.60 | 21.86 | 5.74 | 2,100 ${ }^{12}$ | 6,200 | 145 | 22.0 | 66.6 | 59.9 | 834 |
| 06/22/01 | 27.60 | 20.08 | 7.52 | 1,400 | 3,900 | 130 | 31 | 59 | 59 | $740 / 690^{14}$ |
| 09/15/01 | 27.60 | 18.82 | 8.78 | 1,500 | 4,500 | 140 | $<25$ | 65 | 58 | $720 / 790^{14}$ |
| 12/08/01 | 27.60 | 21.79 | 5.81 | 1,500 | 4,600 | 35 | 5.3 | 33 | 25 | $180 / 110^{14}$ |
| 03/06/02 | 27.60 | 21.86 | 5.74 | 670 | 1,700 | 9.6 | $<5.0$ | 19 | $<10$ | $63 / 66^{14}$ |
| 06/17/02 | 27.60 | 20.48 | 7.12 | 1,600 | 4,300 | 100 | 11 | 29 | 29 | $580 / 710^{14}$ |
| 09/16/02 | 27.60 | 19.40 | 8.20 | 2,300 | 3,100 | 96 | 19 | 6.4 | 43 | $490 / 610^{14}$ |
| 12/23/02 | 27.60 | 21.56 | 6.04 | 1,400 | 2,200 | 68 | 9.3 | 37 | 26 | $340 / 370^{14}$ |
| 03/05/03 | 27.60 | 21.79 | 5.81 | 1,600 | 4,800 | 71 | 12 | 66 | 34 | $930 / 800^{14}$ |
| 06/14/03 ${ }^{\text {15 }}$ | 27.60 | 21.15 | 6.45 | 1,900 | 2,900 | 57 | 10 | 39 | 29 | 780 |
| 09/03/03 ${ }^{\text {15 }}$ | 27.60 | 19.35 | 8.25 | 2,600 | 4,000 | 64 | 9 | 22 | 22 | 800 |
| 12/01/03 ${ }^{15}$ | 27.60 | 20.03 | 7.57 | 3,000 | 9,000 | 76 | 12 | 36 | 38 | 280 |

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station \#9-3553
949 Del Presidio Boulevard
San Rafael, California

| WELL ID/ | TOC* | GWE | DTW | TPH-D | TPHCO | B | T | E | X | MTBE |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| DATE | (fi) | $(m s i)$ | (ft.) | $(p p b)$ | $(p p b)$ | (ppb) | (ppb) | (ppb) | (ppb) | (ppb) |

MW-2 (cont)

| $03 / 01 / 04^{15}$ | 27.60 | 22.17 | 5.43 | 3,000 | 4,200 | 50 | 9 | 42 | 23 | 390 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 06/16/04 ${ }^{15}$ | 27.60 | 20.76 | 6.84 | 880 | 560 | 23 | 2 | 2 | 2 | 240 |
| $09 / 10 / 04^{15}$ | 27.60 | 19.79 | 7.81 | 1,600 | 2,500 | 70 | 14 | 10 | 26 | 390 |
| 12/18/04 ${ }^{15}$ | 27.60 | 22.09 | 5.51 | 91 | 63 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ | 13 |
| $03 / 18 / 05^{15}$ | 27.60 | 22.03 | 5.57 | 1,100 | 4,200 | 29 | 8 | 30 | 19 | 150 |
| 06/30/05 ${ }^{15}$ | 27.60 | 21.45 | 6.15 | 1,100 | 3,900 | 30 | 5 | 11 | 11 | 140 |
| 09/30/05 ${ }^{\text {35 }}$ | 27.60 | 19.76 | 7.84 | 1,400 | 3,200 | 57 | 8 | 7 | 19 | 260 |
| 12/28/05 ${ }^{15}$ | 27.60 | 21.96 | 5.64 | $150^{18}$ | 120 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ | 7 |
| 03/20/06 ${ }^{35}$ | 27.60 | 22.25 | 5.35 | 1,600 | 4,500 | 32 | 7 | 21 | 14 | 150 |
| $06 / 23 / 06^{15}$ | 27.60 | 21.07 | 6.53 | 920 | 2,500 | 8 | 2 | 4 | 5 | 66 |
| 09/22/06 ${ }^{15}$ | 27.60 | 19.96 | 7.64 | 1,400 | 3,000 | 45 | 10 | 4 | 29 | 190 |
| 12/27/06 ${ }^{15}$ | 27.60 | 20.70 | 6.90 | 140 | 76 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ | 3 |
| 03/28/07 ${ }^{15}$ | 27.60 | 22.12 | 5.48 | 100 | <50 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ | 3 |
| $06 / 11 / 07^{15}$ | 27.60 | 20.52 | 7.08 | $160^{20}$ | 1,500 | 6 | 1 | 2 | 0.9 | 6 |
| 09/11/07 ${ }^{15}$ | 27.49 | 18.51 | 8.98 | $650{ }^{20}$ | 1,500 | 24 | 5 | 3 | 11 | 280 |
| $12 / 11 / 07^{15}$ | 27.75 | 19.15 | 8.60 | $2,000^{20}$ | 1,600 | 15 | 3 | 0.9 | 8 | 260 |
| $03 / 10 / 08^{15}$ | 27.75 | 21.92 | 5.83 | $400^{20}$ | 890 | 0.7 | $<0.5$ | $<0.5$ | $<0.5$ | 45 |
| 04/07/08 | 27.75 | 21.04 | 6.71 | -- | -- | -- | -- | -- | -- | -- |
| $06 / 10 / 08^{15}$ | 27.75 | 20.37 | 7.38 | $550{ }^{29}$ | 1,000 | 13 | 3 | 2 | 3 | 53 |

MW-3

| 03/18/98 | 28.92 | 21.28 | 7.64 | 2,800 ${ }^{2}$ | <5,000 | 510 | 56 | 270 | 190 | 33,000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 06/21/99 | 28.92 | 17.75 | 11.17 | 1,500 ${ }^{2}$ | <5,000 | 441 | $<50$ | 355 | 203 | 18,800 |
| 09/27/99 | 28.92 | 16.88 | 12.04 | $494{ }^{2}$ | 5,220 | 220 | $<50$ | 262 | 510 | $16,200 / 22,400^{1}$ |
| 12/17/99 | 28.92 | 17.33 | 11.59 | $925^{2}$ | 3,350 | 441 | $<10$ | 373 | 126 | 4,490 |
| 03/28/00 | 28.92 | 19.92 | 9.00 | 1,050 ${ }^{2}$ | 4,580 | 504 | 14 | 501 | 200 | 17,700 |
| 06/22/00 | 28.92 | 19.48 | 9.44 | 2,000 | $<5,000^{3}$ | 385 | <50.0 | 335 | 439 | 19,800 |
| 09/26/00 | 28.92 | 17.50 | 11.42 | $196{ }^{6,7,8}$ | <5,000 | <50.0 | <50.0 | < 50.0 | 87.3 | 12,300 |
| 12/21/00 | 28.92 | 19.06 | 9.86 | 9,700 ${ }^{11}$ | 22,100 | 2,680 | $<50.0$ | 2,090 | 740 | 24,600 |
| 03/23/01 | 28.92 | 20.69 | 8.23 | $3,000^{11}$ | 10,100 | 1,320 | 16.3 | 812 | 104 | 16,600 |
| 06/22/01 | 28.92 | 17.96 | 10.96 | 260 | <5,000 | 230 | $<50$ | 180 | 280 | 13,000/14,000 ${ }^{14}$ |
| 9-3553.x1//\#386446 |  |  |  |  | 3 |  |  |  |  | As of06/10/08 |

Iable I
Groundwater Monitoring Data and Analytical Results
Chevron Service Station \#9-3553
949 Del Presidio Boulevard
San Rafael, California

| WELL ID/ <br> DATE | TOC | GWE | DTW | TPH- | TP | (pph) | (ppb) | $\begin{array}{r} \mathbf{E} \\ (p p h) \end{array}$ | $\begin{gathered} \mathrm{X} \\ (p p b) \end{gathered}$ | MTBE |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| MW-3 (cont) |  |  |  |  |  |  |  |  |  |  |
| 09/15/01 | 28.92 | 17.13 | 11.79 | $150^{8}$ | 830 | 52 | $<5.0$ | 68 | 110 | $15,000 / 14,000^{14}$ |
| 12/08/01 | 28.92 | 21.29 | 7.63 | 1,500 | 4,100 | 580 | 3.4 | 300 | 22 | $15,000 / 14,000^{14}$ |
| 03/06/02 | 28.92 | 20.14 | 8.78 | 3,200 | 7,000 | 890 | $<10$ | 630 | 33 | $13,000 / 18,000^{14}$ |
| 06/17/02 | 28.92 | 18.77 | 10.15 | 650 | 1,800 | 96 | 1.8 | 99 | 93 | $12,000 / 16,000^{1 / 4}$ |
| 09/16/02 | 28.92 | 17.87 | 11.05 | 620 | 1,400 | 64 | $<2.5$ | 69 | 48 | $11,000 / 11,000{ }^{14}$ |
| 12/23/02 | 28.92 | 21.51 | 7.41 | 3,100 | 7,500 | 1,200 | 5.7 | 540 | 24 | $14,000 / 14,000^{14}$ |
| 03/05/03 | 28.92 | 20.69 | 8.23 | 4,700 | 10,000 | 1,100 | 8.0 | 700 | 24 | 11,000/11,000 ${ }^{1 / 3}$ |
| 06/14/03 ${ }^{15}$ | 28.92 | 19.45 | 9.47 | 910 | 1,600 | 140 | $<3$ | 70 | 33 | 11,000 |
| 09/03/03 ${ }^{15}$ | 28.92 | 17.80 | 11.12 | 310 | 1,400 | 78 | < 5 | 65 | 37 | 9,900 |
| 12/01/03 ${ }^{15}$ | 28.92 | 17.91 | 11.01 | 530 | 1,500 | 140 | $<3$ | 90 | 10 | 4,100 |
| 03/01/04 ${ }^{35}$ | 28.92 | 22.17 | 6.75 | 3,500 | 7,900 | 900 | 6 | 480 | 21 | 5,200 |
| 06/16/04 ${ }^{15}$ | 28.92 | 18.85 | 10.07 | 14,000 | 5,200 | 2,200 | 11 | 1,100 | 320 | 15,000 |
| $09 / 10 / 04^{15}$ | 28.92 | 18.17 | 10.75 | 1,100 | 970 | 590 | <5 | 260 | 67 | 5,700 |
| 12/18/04 ${ }^{15}$ | 28.92 | 20.52 | 8.40 | 5,700 | 13,000 | 1,400 | 7 | 420 | 11 | 7,900 |
| 03/18/05 ${ }^{15}$ | 28.92 | 21.11 | 7.81 | 3,600 | 13,000 | 950 | 8 | 660 | 22 | 3,800 |
| 06/30/05 ${ }^{15}$ | 28.92 | 20.05 | 8.87 | 2,200 | 4,500 | 370 | 3 | 73 | 21 | 2,100 |
| 09/30/05 ${ }^{15}$ | 28.92 | 18.35 | 10.57 | $750^{16}$ | 2,000 | 230 | 2 | 170 | 79 | 2,000 |
| 12/28/05 ${ }^{15}$ | 28.92 | 20.94 | 7.98 | 5,700 ${ }^{19}$ | 14,000 | 1,200 | 7 | 430 | 20 | 6,800 |
| 03/20/06 ${ }^{15}$ | 28.92 | 22.22 | 6.70 | 4,800 | 14,000 | 880 | 7 | 690 | 18 | 3,100 |
| 06/23/06 ${ }^{15}$ | 28.92 | 19.17 | 9.75 | 4,700 | 10,000 | 1,100 | 6 | 320 | 32 | 4,500 |
| 09/22/06 ${ }^{15}$ | 28.92 | 19.05 | 9.87 | 5,100 | 13,000 | 1,200 | 8 | 620 | 82 | 7,100 |
| 12/27/06 ${ }^{\text {3 }}$ | 28.92 | 20.50 | 8.42 | 5,100 | 12,000 | 830 | 6 | 260 | 12 | 3,400 |
| 03/28/07 ${ }^{15}$ | 28.92 | 22.11 | 6.81 | 4,100 | 10,000 | 710 | 5 | 220 | 9 | 2,400 |
| 06/11/07 ${ }^{15}$ | 28.92 | 18.78 | 10.14 | 2,200 ${ }^{20}$ | 3,800 | 420 | 3 | 100 | 20 | 1,200 |
| 09/11/07 ${ }^{15}$ | 28.76 | 17.62 | 11.14 | $1,400^{20}$ | 3,900 | 520 | 4 | 190 | 21 | 1,300 |
| $12 / 11 / 07^{15}$ | 29.05 | 18.57 | 10.48 | $840^{20}$ | 3,100 | 310 | 3 | 57 | 7 | 600 |
| $03 / 10 / 08^{15}$ | 29.05 | 21.75 | 7.30 | $3,500^{20}$ | 11,000 | 1,000 | 8 | 290 | 15 | 2,400 |
| 04/07/08 | 29.05 | 19.71 | 9.34 | -- | $\cdots$ | -- | -- | -- | -- | -- |
| 06/10/08 ${ }^{15}$ | 29.05 | 18.85 | 10.20 | $2,000^{20}$ | 6,000 | 330 | 3 | 76 | 11 | 560 |

lable 1

## Groundwater Monitoring Data and Analytical Results

Chevron Service Station \#9-3553
949 Del Presidio Boulevard
San Rafael, California

| WELL ID DATE | Toc | $\begin{gathered} \mathrm{GWE} \\ (\mathrm{msl}) \end{gathered}$ | BTW | $\begin{gathered} \mathrm{TPH} \mathrm{D} \\ (p p p) \end{gathered}$ | TPHG | (ppb) | (ppb) | $\begin{aligned} & \mathrm{E} \\ & (p b) \end{aligned}$ | X | MTBE |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| MW-4 |  |  |  |  |  |  |  |  |  |  |
| 03/18/98 | 27.54 | 19.76 | 7.78 | 1,700 ${ }^{2}$ | <5,000 | 220 | $<50$ | 130 | $<50$ | 13,000 |
| 06/21/99 | 27.54 | 18.05 | 9.49 | 1,300 ${ }^{2}$ | 2,040 | $<5.0$ | $<5.0$ | $<5.0$ | $<5.0$ | 1,090 |
| 09/27/99 | 27.54 | 16.32 | 11.22 | $622^{2}$ | 1,840 | $<5.0$ | <5.0 | $<5.0$ | $<5.0$ | 917 |
| 12/17/99 | 27.54 | 16.22 | 11.32 | $739^{2}$ | 963 | 16.2 | 5.26 | $<0.5$ | 6.12 | 647 |
| 03/25/00 | 27.54 | 19.09 | 8.45 | $559{ }^{2}$ | <1,250 | 17.3 | $<12.5$ | $<12.5$ | $<12.5$ | 731 |
| 06/22/00 | 27.54 | 18.13 | 9.41 | $364^{5}$ | 1,790 ${ }^{3}$ | <5.00 | <5.00 | $<5.00$ | $<5.00$ | 748 |
| 09/26/00 | 27.54 | 16.56 | 10.98 | $776{ }^{6,7.8}$ | 2,040 | <5.00 | <5.00 | $<5.00$ | $<5.00$ | 820 |
| 12/21/00 | 27.54 | 17.92 | 9.62 | $1,300^{17}$ | 2,020 | $<5.00$ | <5.00 | $<5.00$ | $<5.00$ | 787 |
| 03/23/01 | 27.54 | 19.41 | 8.13 | $740^{11}$ | 2,960 | 65.5 | 1.94 | 19.3 | 4.09 | 2,260 |
| 06/22/01 | 27.54 | 17.20 | 10.34 | 830 | 2,200 | 1.3 | <1.0 | $<1.0$ | 2.0 | $670 / 900^{14}$ |
| 09/15/01 | 27.54 | 15.96 | 11.58 | $570^{8}$ | 1,400 | 26 | $<10$ | $<10$ | $<10$ | $710 / 940^{14}$ |
| 12/08/01 | 27.54 | 19.40 | 8.14 | 1,300 | 3,500 | 12 | 1.5 | 3.2 | 7.4 | 810/830 ${ }^{14}$ |
| 03/06/02 | 27.54 | 18.57 | 8.97 | 2,000 | <10,000 | 110 | $<40$ | 40 | $<120$ | 3,000/3,400 ${ }^{14}$ |
| 06/17/02 | 27.54 | 17.36 | 10.18 | 1,200 | 3,100 | 11 | 1.2 | 3.7 | 5.9 | $840 / 1,100^{14}$ |
| 09/16/02 | 27.54 | 16.68 | 10.86 | 1,100 | 2,400 | 13 | 1.4 | 2.6 | $<10$ | $620 / 760^{14}$ |
| 12/23/02 | 27.54 | 19.60 | 7.94 | 1,100 | 3.000 | $<20$ | $<5.0$ | 3.3 | 5.8 | 950/900 ${ }^{14}$ |
| 03/05/03 | 27.54 | 19.04 | 8.50 | 2,300 | 4,800 | 200 | 3.3 | 52 | 6.3 | 4,100/3,900 ${ }^{14}$ |
| $06 / 14 / 03^{15}$ | 27.54 | 18.03 | 9.51 | 1,500 | 2,600 | 19 | 0.5 | 2 | 2 | 1,200 |
| 09/03/03 ${ }^{15}$ | 27.54 | 16.60 | 10.94 | 1,100 | 2,400 | $<1$ | $<1$ | $<1$ | 1 | 960 |
| $12 / 01 / 03^{15}$ | 27.54 | 16.17 | 11.37 | 970 | 2,000 | 0.5 | $<0.5$ | $<0.5$ | 1 | 800 |
| 03/01/04 ${ }^{15}$ | 27.54 | 20.44 | 7.10 | 2,000 | 4,500 | 230 | $<3$ | 53 | 3 | 3,800 |
| $06 / 16 / 04^{15}$ | 27.54 | 17.26 | 10.28 | 1,400 | 2,900 | 10 | $<0.5$ | 1 | 2 | 400 |
| $09 / 10 / 04^{15}$ | 27.54 | 16.69 | 10.85 | 1,400 | 2,900 | 0.7 | $<0.5$ | 0.9 | 2 | 180 |
| 12/18/04 ${ }^{\text {55 }}$ | 27.54 | 18.54 | 9.00 | 1,000 | 2,900 | 1 | 0.6 | 0.6 | 2 | 140 |
| 03/18/05 ${ }^{\text {5 }}$ | 27.54 | 19.61 | 7.93 | 1,700 | 5,500 | 150 | $<3$ | 27 | <3 | 1,800 |
| 06/30/05 ${ }^{15}$ | 27.54 | 18.82 | 8.72 | 1,400 | 3,100 | 32 | <1 | 1 | 1 | 660 |
| $09 / 30 / 05^{15}$ | 27.54 | 16.96 | 10.58 | $1,100^{17}$ | 2,300 | $<0.5$ | $<0.5$ | 0.5 | 1 | 91 |
| $12 / 28 / 05^{15}$ | 27.54 | 19.53 | 8.01 | $1,100^{19}$ | 2,500 | 0.7 | $<0.5$ | $<0.5$ | 1 | 61 |
| 03/20/06 ${ }^{15}$ | 27.54 | 20.59 | 6.95 | 1,500 | 4,600 | 27 | 0.6 | $<0.5$ | 1 | 480 |
| 06/23/06 ${ }^{\text {15 }}$ | 27.54 | 17.24 | 10.30 | 1,300 | 3,900 | 14 | $<0.5$ | $<0.5$ | 1 | 420 |

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station \#9-3553
949 Del Presidio Boulevard
San Rafael, California

| WELL ID DATE | TOC* <br> (fi:) | GWE <br> (msl) | DTW <br> (ft.) | TRH- | TPHC | B | (ppb) | ER | (ppb) | MTBE |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

## MW-4 (cont)

| 09/22/06 ${ }^{15}$ | 27.54 | 17.34 | 10.20 | 880 | 2,400 | 0.6 | $<0.5$ | 0.5 | 1 | 71 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 12/27/06 ${ }^{15}$ | 27.54 | 18.57 | 8.97 | 1,100 | 3,700 | 1 | $<0.5$ | 0.7 | 1 | 82 |
| 03/28/07 ${ }^{15}$ | 27.54 | 20.40 | 7.14 | 1,100 | 2,500 | 2 | $<0.5$ | 0.8 | 1 | 98 |
| 06/11/07 ${ }^{15}$ | 27.54 | 17.35 | 10.19 | $1,000^{20}$ | 2,100 | $<0.5$ | $<0.5$ | $<0.5$ | 1 | 24 |
| 09/11/07 ${ }^{15}$ | 27.38 | 15.90 | 11.48 | $880^{20}$ | 2,600 | 0.5 | $<0.5$ | $<0.5$ | 0.8 | 30 |
| $12 / 11 / 07^{15}$ | 27.67 | 16.60 | 11.07 | $900^{20}$ | 2,900 | $<0.5$ | $<0.5$ | $<0.5$ | 0.9 | 25 |
| $03 / 10 / 08^{15}$ | 27.67 | 19.25 | 8.42 | $960{ }^{20}$ | 3,400 | 14 | 1 | 0.6 | 2 | 110 |
| 04/07/08 | 27.67 | 18.08 | 9.59 | -- | -- | -- | -- | -- | -- | -- |
| 06/10/08 ${ }^{15}$ | 27.67 | 17.17 | 10.50 | $800^{20}$ | 2,600 | <0.5 | <0.5 | $<0.5$ | 0.8 | 14 |

MW-5

| 09/1 $1 / 07^{15,21}$ | 27.06 | 19.58 | 7.48 | $<50^{20}$ | <50 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ | 190 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $12 / 11 / 07^{15}$ | 27.34 | 20.39 | 6.95 | $110^{20}$ | $<50$ | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ | 270 |
| $03 / 10 / 08^{15}$ | 27.34 | 22.80 | 4.54 | $53^{20}$ | 140 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ | 3 |
| 04/07/08 | 27.34 | 21.79 | 5.55 | -- | -- | -- | -- | -- | -- | -- |
| 06/10/08 ${ }^{15}$ | 27.34 | 21.04 | 6.30 | $63^{20}$ | 61 | $<0.5$ | $<0.5$ | <0.5 | $<0.5$ | 5 |

MW-6

| 09/1//07 $7^{15,21}$ | 25.75 | 15.22 | 10.53 | $<500^{20}$ | 89 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ | 1,600 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 12/11/07 ${ }^{15}$ | 26.04 | 15.79 | 10.25 | $89^{20}$ | 100 | 1 | $<0.5$ | $<0.5$ | $<0.5$ | 1,300 |
| 03/10/08 ${ }^{15}$ | 26.04 | 18.96 | 7.08 | $82^{20}$ | 120 | 2 | $<0.5$ | $<0.5$ | $<0.5$ | 580 |
| 04/07/08 | 26.04 | 16.53 | 9.51 | -- | -- | - ${ }^{\text {- }}$ | -- | -- | -- | -- |
| $06 / 10 / 08^{15}$ | 26.04 | 16.26 | 9.78 | $77^{21}$ | 68 | <0.5 | $<0.5$ | <0.5 | <0.5 | 550 |
| MW-7 |  |  |  |  |  |  |  |  |  |  |
| 04/07/08 ${ }^{15,21}$ | 27.65 | 19.90 | 7.75 | $2,300^{20}$ | 4,800 | 170 | 4 | 100 | 10 | 160 |
| 06/10/08 ${ }^{15}$ | 27.65 | 19.05 | 8.60 | $1,400^{21}$ | 3,200 | 200 | 3 | 130 | 11 | 330 |

## anle

## Groundwater Monitoring Data and Analytical Results

Chevron Service Station \#9-3553
949 Del Presidio Boulevard
San Rafael, California

| WELL ID DATE | Toc | GWE | DTW | $\begin{gathered} T P H-D \\ (p p p) \end{gathered}$ | TTHG | B | (ppb) | E- | (ppb) | MTBE |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TRIP BLANK |  |  |  |  |  |  |  |  |  |  |
| 03/18/98 | -- | .-. | ... | --- | <50 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ | $<2.5$ |
| 06/21/99 | -- | -- | -- | -- | $<50$ | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ | $<2.0$ |
| 09/27/99 | -- | -- | -- | -- | $<50$ | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ | $<2.5$ |
| 12/17/99 | -- | -- | -- | -- | $<50$ | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ | $<2.5$ |
| 03/28/00 | -- | -- | -- | -- | $<50$ | $<0.50$ | $<0.50$ | $<0.50$ | $<0.50$ | $<2.5$ |
| 06/22/00 ${ }^{3}$ | -- | -- | -- | -- | $<50.0$ | $<0.500$ | $<0.500$ | <0. 500 | $<0.500$ | $<2.50$ |
| 09/26/00 | -- | -- | -- | -- | $<50.0$ | $<0.500$ | $<0.500$ | $<0.500$ | $<0.500$ | $<2.50$ |
| 12/21/00 | -- | -- | -- | -- | $<50.0$ | $<0.500$ | $<0.500$ | $<0.500$ | $<0.500$ | 3.61 |
| 03/23/01 | -- | -- | -- | -- | $<50.0$ | $<0.500$ | $<0.500$ | $<0.500$ | $<0.500$ | $<0.500$ |
| 06/22/01 | -- | -- | -- | -- | $<50$ | $<0.50$ | $<0.50$ | $<0.50$ | $<0.50$ | $<2.5$ |
| 09/15/01 | -- | -- | -- | -- | $<50$ | $<0.50$ | $<0.50$ | $<0.50$ | $<0.50$ | $<2.5$ |
| QA |  |  |  |  |  |  |  |  |  |  |
| 12/08/01 | -- | -- | -- | -- | $<50$ | $<0.50$ | $<0.50$ | $<0.50$ | $<1.5$ | $<2.5$ |
| 03/06/02 | $\cdots$ | -- | -- | -- | $<50$ | $<0.50$ | $<0.50$ | $<0.50$ | $<1.5$ | $<2.5$ |
| 06/17/02 | -- | --- | -- | -- | $<50$ | $<0.50$ | $<0.50$ | $<0.50$ | $<1.5$ | $<2.5$ |
| 09/16/02 | -- | -- | -- | -- | $<50$ | $<0.50$ | $<0.50$ | $<0.50$ | <1.5 | $<2.5$ |
| 12/23/02 | -- | -- | -- | -- | $<50$ | $<0.50$ | $<0.50$ | $<0.50$ | $<1.5$ | $<2.5$ |
| 03/05/03 | -- | - | -- | -- | $<50$ | $<0.50$ | $<0.50$ | $<0.50$ | $<1.5$ | $<2.5$ |
| $06 / 14 / 03^{15}$ | -- | -- | -- | -- | <50 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| $09 / 03 / 03^{15}$ | -- | -- | -- | -- | $<50$ | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| $12 / 01 / 03^{15}$ | -- | --- | --- | -- | <50 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| $03 / 01 / 04^{15}$ | $\cdots$ | -- | -- | -- | $<50$ | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| $06 / 16 / 04^{15}$ | -- | -- | -- | -- | $<50$ | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| $09 / 10 / 04^{15}$ | -- | -- | -- | -- | <50 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| $12 / 18 / 04^{15}$ | -- | -- | --- | -- | $<50$ | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| $03 / 18 / 05^{15}$ | -- | -- | -- | -- | $<50$ | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| $06 / 30 / 05^{15}$ | -- | -- | -- | -- | $<50$ | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| $09 / 30 / 05^{15}$ | -- | -- | -- | $\cdots$ | $<50$ | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| $12 / 28 / 05^{15}$ | -- | -- | -- | --- | $<50$ | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| $03 / 20 / 06^{15}$ | -- | -- | -- | -- | $<50$ | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| $06 / 23 / 06^{15}$ | -- | -- | -- | -- | $<50$ | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |

Table 1

## Groundwater Monitoring Data and Analytical Results

Chevron Service Station \#9-3553
949 Del Presidio Boulevard

| WELC ID/ | TOC* | GWE | DTW | TPHO | TPHG | B | T | E | X | MTBE |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| DATE | (f) | (msl) | (fi) | (ppb) | (ppb) | (ppb) | (ppb) | (pab) | (ppb) | (ppb) |


| QA (cont) |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 09/22/06 ${ }^{15}$ | -- | -- | -- | -- | $<50$ | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| 12/27/06 ${ }^{15}$ | -- | -- | -- | -- | $<50$ | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| 03/28/07 ${ }^{15}$ | -- | -- | -- | -- | <50 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| 06/11/07 ${ }^{\text {15 }}$ | -. | -- | - | -- | <50 | $<0.5$ | $<0.5$ | $<0.5$ | <0.5 | $<0.5$ |
| $09 / 11 / 07^{15}$ | -- | -- | -- | -- | $<50$ | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| 12/11/07 ${ }^{35}$ | -- | -- | -- | -- | $<50$ | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| $03 / 10 / 08^{15}$ | -- | -- | -- | -- | $<50$ | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| 04/07/08 ${ }^{15}$ | -- | -- | -- | -- | $<50$ | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| 06/10/08 ${ }^{15}$ | -- | -- | -- | -- | $<50$ | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |

## lable I

## Groundwater Monitoring Data and Analytical Results

## EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to June 22, 2000, were compiled from reports by Blaine Tech Services, Inc.
TOC $=$ Top of Casing
(ft.) $=$ Feet

$$
\text { GWE }=\text { Groundwater Elevation }
$$

$$
\text { TPH-D }=\text { Total Petroleum Hydrocarbons as Diesel }
$$

$$
\begin{aligned}
& \text { TPH-G = Total Petroleum Hydrocarbons as Gasoline } \\
& \mathrm{B}=\text { Benzene } \\
& \mathrm{T}=\text { Toluene } \\
& \mathrm{E}=\text { Ethylbenzene } \\
& \mathrm{X}=\text { Xylenes } \\
& \text { MTBE }=\text { Methyl Tertiary Butyl Ether }
\end{aligned}
$$

$(\mathrm{ppb})=$ Parts per billion
-. = Not Measured/Not Analyzed
$\mathrm{QA}=$ Quality Assurance/Trip Blank

$$
(\mathrm{msl})=\text { Mean sea level }
$$

DTW = Depth to Water

* TOC elevation for MW-7 was surveyed on April 10, 2008 by Morrow Surveying. Vertical datum is NAVD 88 from GPS observations. TOC elevations were surveyed on November 6, 2007 by Morrow Surveying. Vertical datum is NAVD 88 from GPS observations. TOC elevations were surveyed on August 23, 2007 by Virgil Chavez Land Surveying. Vertical datum is NAVD 88.


## 1 Confirmation run.

${ }^{2}$ Chromatogram pattern indicates an unidentified hydrocarbon.
${ }^{3}$ Laboratory report indicates the EPA recommended storage temperature of 4 degrees C was exceeded prior to analysis.
${ }^{4}$ Laboratory report indicates results between the primary and confirmation columns varied by greater than $40 \%$ RPD.
5 Laboratory report indicates re-extract unavailable due to insufficient sample.
6 Laboratory report indicates no sample available for re-extraction.
7 Laboratory report indicates analyte is found in the associated blank as well as in the sample.
${ }^{8}$ Laboratory report indicates hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.
9. Laboratory report indicates hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel. The pattern more closely resembles that of a lighter fluid.
10 Laboratory report indicates discrete peaks.
11 Laboratory report indicates unidentified hydrocarbons <C16.
12 Laboratory report indicates unidentified hydrocarbons C9-C24.
13 Laboratory report indicates hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel. The pattern more closely resembles that of a heavier fluid.

14 MTBE by EPA Method 8260.
is BTEX and MTBE by EPA Method 8260 .
16 Laboratory report indicates the observed sample pattern includes \#2 fuel/diesel and an additional pattern which elutes later in the DRO range.
17 Laboratory report indicates the observed sample pattern is not typical of \#2 fuel/diesel. It elutes in the DRO range earlier than \#2 fuel.
to Laboratory report indicates the observed sample pattern is not typical of \#2 fuel/diesel. It elutes in the DRO range later than \#2 fuel and contains individual peaks eluting in the DRO range.

## Table 1

## Groundwater Monitoring Data and Analytical Results

Chevron Service Station \#9-3553
949 Del Presidio Boulevard
San Rafael, California

## EXPLANATIONS:

19 Laboratory report indicates the observed sample pattern is not typical of \#2 fuel/diesel. It elutes in the DRO range earlier than \#2 fuel.
${ }^{20}$ TPH-D with silica-gel clean up.
${ }^{21}$ Well development performed.
lable 2

## Groundwater Analytical Results - Oxygenate Compounds

Chevron Service Station \#9-3553
949 Del Presidio Boulevard
San Rafael, California

| WELL 1D | DATE | ETHANOL | LBA | MTBE | oIee | ETBE | TAME | $\begin{gathered} 1, \mathrm{DCA} \\ (p p b) \end{gathered}$ | $\begin{aligned} & \mathrm{OBE} \\ & (p p b) \end{aligned}$ | CHISSOLVEQ | TRIVALENT CHROMIUM (ppm) | HEXAVALENT <br> CHROMLUM <br> (ppm) | svocs |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| MW-1 | 06/22/01 | $<400$ | 46 | 260 | $<1.0$ | $<1.0$ | 11 | $<1.0$ | $<1.0$ | -- | -- | -- | -- |
|  | 09/15/01 | <500 | 150 | 320 | <2.0 | $<2.0$ | 17 | $<2.0$ | $<2.0$ | -- | -- | -- | -- |
|  | 12/08/01 | -- | <100 | 280 | $<2$ | $<2$ | 7 | <2 | $<2$ | -- | -- | -- | - |
|  | 03/06/02 | -- | 120 | 320 | <2 | $<2$ | 8 | $<2$ | $<2$ | - | -- | -- | --" |
|  | 06/17/02 | -- | 89 | 320 | $<0.5$ | $<0.5$ | 10 | $<0.5$ | $<0.5$ | -- | -- | -- | -- |
|  | 09/16/02 | -- | 51 | 270 | $<0.5$ | $<0.5$ | 11 | $<0.5$ | $<0.5$ | -- | -- | $\cdots$ | --- |
|  | 12/23/02 | -- | 36 | 260 | $<0.5$ | $<0.5$ | 6 | $<0.5$ | $<0.5$ | -- | --- | -- | -* |
|  | 03/05/03 | -- | 78 | 240 | $<0.5$ | $<0.5$ | 4 | $<0.5$ | $<0.5$ | -- | -- | -- | -- |
|  | 06/14/03 | -- | 100 | 240 | $<0.5$ | $<0.5$ | 4 | $<0.5$ | $<0.5$ | $\cdots$ | -- | - | - |
|  | 09/03/03 | -- | 110 | 290 | $<0.5$ | $<0.5$ | 5 | $<0.5$ | $<0.5$ | -- | -- | -- | -- |
|  | 12/01/03 | -- | 74 | 230 | $<0.5$ | $<0.5$ | 3 | $<0.5$ | $<0.5$ | -- | -- | $\cdots$ | -* |
|  | 03/01/04 | -- | 130 | 250 | $<0.5$ | $<0.5$ | 2 | $<0.5$ | $<0.5$ | -- | -- | - | -- |
|  | 06/16/04 | -* | 130 | 260 | $<0.5$ | $<0.5$ | 3 | $<0.5$ | $<0.5$ | -- | -- | -- | -- |
|  | 09/10/04 | -- | 86 | 240 | $<0.5$ | $<0.5$ | 4 | $<0.5$ | $<0.5$ | -- | -- | -- | -- |
|  | 12/18/04 | INACCESSIBLE - VEHICLE PARKED OVER WELL |  |  |  |  | -- | -- | -- | -- | -- | -* | -- |
|  | 03/18/05 | -- | 47 | 180 | $<0.5$ | $<0.5$ | 3 | $<0.5$ | $<0.5$ | -- | -- | -- | -- |
|  | 06/30/05 | -- | 59 | 180 | $<0.5$ | $<0.5$ | 3 | $<0.5$ | $<0.5$ | -- | -- | -- | -- |
|  | 09/30/05 | -- | 85 | 170 | $<0.5$ | $<0.5$ | 3 | $<0.5$ | $<0.5$ | $\cdots$ | -- | -- | -- |
|  | 12/28/05 | -- | 100 | 160 | $<0.5$ | $<0.5$ | 3 | $<0.5$ | $<0.5$ | -- | -- | -- | -- |
|  | 03/20/06 | -- | 100 | 140 | $<0.5$ | $<0.5$ | 3 | $<0.5$ | $<0.5$ | -- | - | -- | -- |
|  | 06/23/06 | -- | 83 | 140 | $<0.5$ | $<0.5$ | 6 | $<0.5$ | $<0.5$ | -- | -- | -- | -- |
|  | 09/22/06 | -- | 130 | 87 | $<0.5$ | $<0.5$ | 3 | $<0.5$ | $<0.5$ | -- | -- | -- | -- |
|  | 12/27/06 | -- | 120 | 51 | $<0.5$ | $<0.5$ | 2 | $<0.5$ | $<0.5$ | - | -- | - | -- |
|  | 03/28/07 | -- | 110 | 57 | <0.5 | $<0.5$ | 2 | $<0.5$ | $<0.5$ | $\cdots$ | -- | -- | -- |
|  | 06/11/07 | -- | 120 | 41 | $<0.5$ | $<0.5$ | 1 | $<0.5$ | $<0.5$ | -- | - | - | - |
|  | 09/11/07 | -- | 160 | 70 | $<0.5$ | $<0.5$ | 2 | $<0.5$ | $<0.5$ | 1.11 | -- | -- | $\cdots$ |
|  | 12/11/07 | -- | 140 | 64 | $<0.5$ | $<0.5$ | 2 | $<0.5$ | $<0.5$ | 0.0712 | -- | -- | -- |
|  | 03/10/08 | -- | 260 | 140 | $<0.5$ | $<0.5$ | 1 | $<0.5$ | $<0.5$ | $<0.0023$ | - | ** | -- |
|  | 06/10/08 | -- | 200 | 82 | <0.5 | $<0.5$ | 2 | <0.5 | $<0.5$ | -- | -- | -- | -- |

Groundwater Analytical Results - Oxygenate Compounds
Chevron Service Station \#9-3553
949 Del Presidio Boulevard
San Rafael, California

| WELLIT | DATE | ETHANOL | TBA | MTBE <br> (ppb) | DIPE | exbe | TAME <br> (ppb) | $\begin{aligned} & 12 \mathrm{DCA} \\ & (p p b) \end{aligned}$ | LDB | DISSOLVED CHROMIUM (ppm) | TRIVALENT CHROMIUM (ppm) | HEXAVALENT CHROMLUM (ppm) | svocs |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| MW-2 | 06/22/01 | <4,000 | 290 | 690 | $<10$ | $<10$ | $<10$ | $<10$ | $<10$ | -- | -- | -- | -- |
|  | 09/15/01 | <1,000 | 500 | 790 | <4,0 | $<4.0$ | $<4.0$ | $<4.0$ | $<4.0$ | -- | -- | -- | -- |
|  | 12/08/01 | -- | $<100$ | 110 | <2 | $<2$ | 4 | <2 | $<2$ | -- | -- | -- | --- |
|  | 03/06/02 | -- | $<100$ | 66 | <2 | <2 | 3 | $<2$ | $<2$ | -- | -- | -- | -- |
|  | 06/17/02 | -- | 250 | 710 | $<0.5$ | $<0.5$ | 2 | $<0.5$ | $<0.5$ | -- | -- | -- | -- |
|  | 09/16/02 | -- | 120 | 610 | $<0.5$ | $<0.5$ | 3 | $<0.5$ | $<0.5$ | -- | -- | -- | -- |
|  | 12/23/02 | -- | 57 | 370 | $<0.5$ | $<0.5$ | 3 | $<0.5$ | $<0.5$ | -- | -- | -- | -- |
|  | 03/05/03 | -- | 130 | 800 | $<0.5$ | $<0.5$ | 1 | $<0.5$ | $<0.5$ | -* | - | -- | -- |
|  | 06/14/03 | - | 170 | 780 | 0.5 | $<0.5$ | 2 | $<0.5$ | $<0.5$ | -* | - | -- | -- |
|  | 09/03/03 | --- | 340 | 800 | <1 | $<1$ | 1 | <1 | $<1$ | -- | -- | -- | -- |
|  | 12/01/03 | $\cdots$ | 200 | 280 | $<0.5$ | $<0.5$ | 2 | $<0.5$ | $<0.5$ | -" | -- | -- | --- |
|  | 03/01/04 | -- | 550 | 390 | $<0.5$ | $<0.5$ | 0.9 | $<0.5$ | $<0.5$ | $\cdots$ | -- | -- | -- |
|  | 06/16/04 | - | 370 | 240 | $<0.5$ | $<0.5$ | 3 | $<0.5$ | $<0.5$ | -- | -- | -- | -- |
|  | 09/10/04 | -- | 540 | 390 | $<0.5$ | $<0.5$ | 0.8 | $<0.5$ | $<0.5$ | -- | -- | -- | -- |
|  | 12/18/04 | -- | $<5$ | 13 | $<0.5$ | $<0.5$ | 1 | $<0.5$ | $<0.5$ | -- | -- | -- | -- |
|  | 03/18/05 | -- | 880 | 150 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ | -- | -- | -- | -- |
|  | 06/30/05 | -- | 1,100 | 140 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ | -- | -- | -- | -- |
|  | 09/30/05 | -- | 820 | 260 | 0.6 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ | -- | -- | -- | -- |
|  | 12/28/05 | -- | $<5$ | 7 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ | $\cdots$ | -- | -- | --- |
|  | 03/20/06 | -- | 630 | 150 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ | -* | - | -- | -- |
|  | 06/23/06 | -- | 750 | 66 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ | -- | -- | -- | -* |
|  | 09/22/06 | -- | 860 | 190 | 0.6 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ | -- | -- | -- | -- |
|  | 12/27/06 | -- | <2 | 3 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ | -- | -- | -- | -- |
|  | 03/28/07 | -- | <2 | 3 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ | -- | -- | -- | -- |
|  | 06/11/07 | -- | 9 | 6 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ | -- | -- | -- | -" |
|  | 09/11/07 | -- | 510 | 280 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ | 0.0207 | $\cdots$ | -- | -- |
|  | 12/11/07 | -- | 490 | 260 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ | 0.0578 | -- | -- | -- |
|  | 03/10/08 | -- | 150 | 45 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ | 0.0044 | -- | -- | -- |
|  | 06/10/08 | -- | 180 | 53 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ | <0.5 | - | -- | -- | "- |

Table 2
Groundwater Analytical Results - Oxygenate Compounds
Chevron Service Station \#9-3553
949 Del Presidio Boulevard
San Rafael, California

| San Rafael, California |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| WECLID | DATE. | ETHANOL | $\begin{gathered} \mathbf{R A} \\ (p p b) \end{gathered}$ | MTBE | bIe | ETBE | TAME <br> (ppb) | 1, - DCA | LDB | DISSOLVED <br> CHROMIUM <br> (ppm) | TRIVALENT <br> CHROMIUM <br> (ppm) | HEXAVALENT CHROMUU (ppm) | $\begin{gathered} \text { svocs } \\ \text { ppbb) } \end{gathered}$ |
| MW-3 | 06/22/01 | <200,000 | <10,000 | 14,000 | $<500$ | $<500$ | $<500$ | $<500$ | $<500$ | -- | -- | -- | -- |
|  | 09/15/01 | <25,000 | 1,600 | 14,000 | <100 | 150 | 100 | $<100$ | $<100$ | -- | -- | -- | -- |
|  | 12/08/01 | -- | 3,100 | 14,000 | $<5.0$ | 120 | 140 | $<5.0$ | $<5.0$ | -- | -- | -- | -- |
|  | 03/06/02 | -- | 5,700 | 18,000 | $<5.0$ | 100 | 190 | $<5.0$ | $<5.0$ | -- | -- | -- | --- |
|  | 06/17/02 | --- | 2,500 | 16,000 | 0.6 | 160 | 170 | $<0.5$ | $<0.5$ | -- | -- | -- | -- |
|  | 09/16/02 | -- | 700 | 11,000 | <3 | 100 | 83 | $<3$ | $<3$ | -- | -- | -- | -- |
|  | 12/23/02 | -- | 2,600 | 14,000 | $<5$ | 120 | 160 | <5 | $<5$ | -- | -- | -- | -- |
|  | 03/05/03 | -- | 3,200 | 11,000 | <3 | 90 | 140 | $<3$ | $<3$ | - | -- | -- | -- |
|  | 06/14/03 | -- | 1,600 | 11,000 | $<3$ | 90 | 110 | $<3$ | $<3$ | -- | -- | -- | -- |
|  | 09/03/03 | -- | 530 | 9,900 | $<5$ | 72 | 65 | $<5$ | $<5$ | - | -- | - | -- |
|  | 12/01/03 | -- | 5,200 | 4,100 | $<3$ | 78 | 32 | $<3$ | $<3$ | -- | -- | - | -- |
|  | 03/01/04 | -- | 8,500 | 5,200 | $<3$ | 82 | 62 | $<3$ | $<3$ | -- | - | -- | -- |
|  | 06/16/04 | -- | 6,700 | 15,000 | $<5$ | 160 | 190 | $<5$ | $<5$ | -- | -- | -- | -- |
|  | 09/10/04 | -- | 3,000 | 5,700 | $<5$ | 89 | 57 | $<5$ | $<5$ | -- | -- | -- | -- |
|  | 12/18/04 | -- | 5,800 | 7,900 | $<5$ | 93 | 100 | $<5$ | $<5$ | -- | -- | -- | -- |
|  | 03/18/05 | - | 6,000 | 3,800 | $<3$ | 68 | 47 | $<3$ | $<3$ | -- | -- | -- | -- |
|  | 06/30/05 | -- | 10,000 | 2,100 | <3 | 90 | 23 | $<3$ | $<3$ | -- | -- | -- | -- |
|  | 09/30/05 | -- | 5,400 | 2,000 | 1 | 100 | 21 | $<0.5$ | $<0.5$ | - | -- | -- |  |
|  | 12/28/05 | -- | 6,300 | 6,800 | $<3$ | 82 | 92 | $<3$ | $<3$ | -- | -- | $\cdots$ | -- |
|  | 03/20/06 | -- | 4,400 | 3,100 | $<0.5$ | 65 | 48 | $<0.5$ | $<0.5$ | -- | -- | -- | -- |
|  | 06/23/06 | -- | 6,800 | 4,500 | $<1$ | 81 | 57 | $<1$ | $<1$ | -- | -- | -- | -- |
|  | 09/22/06 | -- | 4,500 | 7,100 | $<3$ | 83 | 81 | $<3$ | $<3$ | -- | - | - | -- |
|  | 12/27/06 | -- | 5,900 | 3.400 | <1 | 66 | 44 | $<1$ | $<1$ | -- | -- | - |  |
|  | 03/28/07 | -- | 5,400 | 2,400 | <1 | 71 | 27 | $<1$ | $<1$ | -- | -- | -- | --" |
|  | 06/11/07 | -- | 7,800 | 1,200 | $<0.5$ | 97 | 17 | $<0.5$ | $<0.5$ | -- | -- | - | -- |
|  | 09/11/07 | -- | 8,500 | 1,300 | $<0.5$ | 99 | 17 | $<0.5$ | $<0.5$ | 0.0752 | - | -- | -- |
|  | 12/11/07 | -- | 8,300 | 600 | $<0.5$ | 100 | 7 | $<0.5$ | $<0.5$ | 0.0534 | -- | - | -- |
|  | 03/10/08 | -- | 8,800 | 2,400 | $<0.5$ | 79 | 28 | $<0.5$ | $<0.5$ | $<0.0023$ | -- | -- | -- |
|  | 06/10/08 | -- | 6,900 | 560 | $<0.5$ | 68 | 8 | <0.5 | <0.5 | -- | -- | - | -- |

## Table 2

## Groundwater Analytical Results - Oxygenate Compounds

Chevron Service Station \#9-3553
949 Del Presidio Boulevard
San Rafael, California

| WELL ID | DATE | ETHANOL | TBAE | MTBE | D\|PE | ETBE | TAME <br> (ppb) | $\begin{aligned} & 2-\mathrm{DCA} \\ & \text { ppbb) } \end{aligned}$ | LDB | DISSOLVED <br> CHROMILM <br> (ppm) | TRIVALENT <br> CHROMIUM <br> (ppm) | HEXAVALENT CHROMUU (ppm) | $\begin{gathered} \text { svocs } \\ (p p b) \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| MW-4 | 06/22/01 | $<8,000$ | $<400$ | 900 | $<20$ | $<20$ | $<20$ | $<20$ | $<20$ | -- | -- | -- | -- |
|  | 09/15/01 | <1,000 | 480 | 940 | $<4.0$ | $<4.0$ | $<4.0$ | $<4.0$ | <4.0 | -- | -- | -- | -- |
|  | 12/08/01 | -- | 170 | 830 | $<2$ | $<2$ | <2 | <2 | $<2$ | -- | -- | -- | -- |
|  | 03/06/02 | -- | 1,100 | 3,400 | $<2.0$ | 24 | 19 | $<2.0$ | $<2.0$ | -- | -- | -- | -- |
|  | 06/18/02 | -- | 290 | 1,100 | $<0.5$ | 4 | 3 | $<0.5$ | $<0.5$ | -- | -- | -- | -- |
|  | 09/16/02 | -- | 140 | 760 | $<0.5$ | 1 | 1 | $<0.5$ | $<0.5$ | -- | -- | -- | - |
|  | 12/23/02 | -- | 110 | 900 | $<0.5$ | 1 | $<0.5$ | $<0.5$ | $<0.5$ | -- | -- | -- | -- |
|  | 03/05/03 | -- | 890 | 3,900 | $<1$ | 36 | 32 | <1 | $<1$ | -- | - | -- | -- |
|  | 06/14/03 | -- | 300 | 1,200 | $<0.5$ | 9 | 7 | $<0.5$ | $<0.5$ | -- | - | -- | -- |
|  | 09/03/03 | -- | 310 | 960 | $<1$ | 2 | 2 | $<1$ | $<1$ | -- | -- | -- | -- |
|  | 12/01/03 | -- | 570 | 800 | $<0.5$ | 1 | $<0.5$ | $<0.5$ | $<0.5$ | -- | -- | -- | -- |
|  | 03/01/04 | -- | 1,500 | 3,800 | $<3$ | 39 | 35 | $<3$ | $<3$ | -- | -- | -- | -- |
|  | 06/16/04 | -- | 960 | 400 | $<0.5$ | 5 | 2 | $<0.5$ | $<0.5$ | -- | -- | -- | -- |
|  | 09/10/04 | -- | 1,200 | 180 | $<0.5$ | 1 | $<0.5$ | $<0.5$ | $<0.5$ | -- | - | -- | -- |
|  | 12/18/04 | -- | 1,000 | 140 | $<0.5$ | 2 | $<0.5$ | $<0.5$ | $<0.5$ | -- | -- | -- | -- |
|  | 03/18/05 | -- | 1,800 | 1,800 | $<3$ | 25 | 19 | $<3$ | $<3$ | - | -- | -- | -- |
|  | 06/30/05 | -- | 1,200 | 660 | <1 | 12 | 8 | $<1$ | $<1$ | -- | -- | -- | -- |
|  | 09/30/05 | -- | 880 | 91 | $<0.5$ | 3 | 0.6 | $<0.5$ | $<0.5$ | -- | -- | -- | - |
|  | 12/28/05 | -- | 680 | 61 | $<0.5$ | 2 | $<0.5$ | $<0.5$ | $<0.5$ | -- | -- | -- | -- |
|  | 03/20/06 | -* | 940 | 480 | $<0.5$ | 11 | 6 | $<0.5$ | 0.5 | -- | -- | -- | -- |
|  | 06/23/06 | -- | 1,300 | 420 | $<0.5$ | 13 | 5 | $<0.5$ | $<0.5$ | - | -- | - | -- |
|  | 09/22/06 | -- | 790 | 71 | $<0.5$ | 3 | 0.7 | $<0.5$ | $<0.5$ | -- | -- | -- | -- |
|  | 12/27/06 | -- | 690 | 82 | $<0.5$ | 4 | 0.9 | $<0.5$ | $<0.5$ | -- | -- | -- | -- |
|  | 03/28/07 | -- | 620 | 98 | $<0.5$ | 5 | 1 | $<0.5$ | $<0.5$ | -- | -- | -- | -- |
|  | 06/11/07 | -- | 560 | 24 | $<0.5$ | 2 | $<0.5$ | $<0.5$ | $<0.5$ | -- | -- | -- | -- |
|  | 09/11/07 | -- | 680 | 30 | $<0.5$ | 2 | $<0.5$ | $<0.5$ | $<0.5$ | 0.0525 | -- | -- | -- |
|  | 12/11/07 | -- | 530 | 25 | $<0.5$ | 2 | $<0.5$ | $<0.5$ | $<0.5$ | 0.0301 | -- | -- | -" |
|  | 03/10/08 | -- | 900 | 110 | $<0.5$ | 7 | 1 | $<0.5$ | $<0.5$ | $<0.0023$ | -" | - | -- |
|  | 06/10/08 | -- | 470 | 14 | $<0.5$ | 2 | <0.5 | $<0.5$ | $<0.5$ | -- | -- | -- | -- |

Table 2
Groundwater Analytical Results - Oxygenate Compounds
Chevron Service Station \#9-3553
949 Del Presidio Boulevard
San Rafael, California

| San Rafael, California |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| WELL ID | DATE | ETHANOL | RBA | MTBE | DIPe | ELBE | TAME <br> (ppb) | $\begin{array}{r} 2-\mathrm{DCA} \\ \hline p p b) \end{array}$ | $\mathrm{LDB}$ | DISSOLVED <br> CHROMIUM <br> (ppm) | TRIVALENT <br> CHROMIUM <br> (ppm) | HEXAVALENT CHROMIUM (ppm) | $\begin{gathered} \text { Syocs } \\ (p p b) \end{gathered}$ |
| MW-5 | 09/11/07 | -- | 220 | 190 | $<0.5$ | 12 | 3 | $<0.5$ | $<0.5$ | 0.0051 | -- | $\cdots$ | -- |
|  | 12/11/07 | -- | 370 | 270 | $<0.5$ | 12 | 4 | $<0.5$ | $<0.5$ | 0.0054 | -- | -- | $<1-<20$ |
|  | 03/10/08 | -" | 100 | 3 | $<0.5$ | 1 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.0023$ | -- | -- | $<1-<20$ |
|  | 06/10/08 | --' | 130 | 5 | <0.5 | 2 | $<0.5$ | $<0.5$ | $<0.5$ | -- | -- | -- | - |
| MW-6 | 09/11/07 | -- | 220 | 1,600 | $<0.5$ | 41 | 11 | $<0.5$ | $<0.5$ | 0.0187 | -- | -- | -- |
|  | 12/11/07 | -- | 210 | 1,300 | $<0.5$ | 33 | 8 | $<0.5$ | $<0.5$ | 0.0107 | -- | -" | $<1-<20^{1}$ |
|  | 03/10/08 | -- | 1,400 | 580 | $<0.5$ | 32 | 3 | $<0.5$ | $<0.5$ | $<0.0023^{2}$ | -- | -" | $<1-<20$ |
|  | 06/10/08 | -- | 570 | 550 | <0.5 | 34 | 3 | $<0.5$ | $<0.5$ | -- | -- | -- | - |
| MW-7 | 04/07/08 | $\cdots$ | 100 | 160 | $<0.5$ | 4 | $<0.5$ | $<0.5$ | $<0.5$ | <0.0023/0.0335 ${ }^{2}$ | 0.033 | $<0.0050$ | $<0.9-<6{ }^{3}$ |
|  | 06/10/08 | - | 210 | 330 | $<0.5$ | 5 | 3 | $<0.5$ | $<0.5$ | --- | -- | - | - |

# Table 2 

## Groundwater Analytical Results - Oxygenate Compounds

Chevron Service Station \#9-3553
949 Del Presidio Boulevard
San Rafael, California

| EXPLANATIONS: | ANALYTICAL METHODS: |
| :--- | :--- |
| TBA $=$ t-Butyl alcohol | EPA Method 8260 for Oxygenate Compounds |
| MTBE $=$ Methyl Tertiary Butyl Ether | EPA Method 6010B for Dissolved, Total and Trivalent Chromium |
| DIPE $=$ di-Isopropyl ether | EPA Method 7196A for Hexavalent Chromium |
| ETBE $=$ Ethyl t-Butyl ether | EPA Method 8270 for SVOCs |
| TAME $=$ t-Amyl methyl ether |  |
| $1,2-D C A=1,2$ Dichloroethane |  |
| EDB $=1,2$-Dibromoethane |  |
| SVOCs $=$ Semi-Volatile Organic Compounds |  |
| $(\mathrm{ppb})=$ Parts per billion |  |
| $(\mathrm{ppm})=$ Parts per million |  |
| $-=$ Not Analyzed |  |
| 1 | Laboratory report indicates bis (2-Ethylhexyl) phthalate at 2 ppb. |
| Total Chromium. |  |

NOTE: All other SVOC concentrations were below detection limits.

Table 3
Joint Groundwater Monitoring Data
Shell Service Station
950 Del Presidio Boulevard
San Rafael, California

| WELLTDt | $\mathrm{TOC}^{+1}$ | DTW <br> (fi). | $\mathrm{GWE}$ |
| :---: | :---: | :---: | :---: |
| MW-1 |  |  |  |
| 06/11/07 | 30.77 | 3.35 | 27.42 |
| 09/11/07 | 30.77 | 6.61 | 24.16 |
| 12/11/07 | 30.77 | 5.61 | 25.16 |
| 03/11/08 ${ }^{1}$ | 30.77 | 3.65 | 27.12 |
| 06/10/08 | 30.77 | 4.81 | 25.96 |

MW-2

| $06 / 11 / 07$ | 29.23 | 3.95 | 25.28 |
| :--- | :--- | :--- | :--- |
| $09 / 11 / 07$ | 29.23 | 6.82 | 22.41 |
| $12 / 11 / 07$ | 29.23 | 3.97 | 25.26 |
| $03 / 11 / 08^{\prime}$ | 29.23 | 2.27 | 26.96 |
| $\mathbf{0 6 / 1 0 / 0 8}$ | $\mathbf{2 9 . 2 3}$ | $\mathbf{3 . 3 4}$ | $\mathbf{2 5 . 8 9}$ |

## MW-3

| $06 / 11 / 07$ | 30.32 | 5.31 | 25.01 |
| :--- | :--- | :--- | :--- |
| $09 / 11 / 07$ | 30.32 | 6.51 | 23.81 |
| $12 / 11 / 07$ | 30.32 | 5.79 | 24.53 |
| $03 / 11 / 08^{1}$ | 30.32 | 3.90 | 26.42 |
| $\mathbf{0 6 / 1 0 / 0 8}$ | $\mathbf{3 0 . 3 2}$ | $\mathbf{5 . 1 0}$ | $\mathbf{2 5 . 2 2}$ |

## MW-4

| $06 / 11 / 07$ | 31.51 | 4.03 | 27.48 |
| :--- | :--- | :--- | :--- |
| $09 / 11 / 07$ | 31.51 | 4.97 | 26.54 |
| $12 / 11 / 07$ | 31.51 | 3.82 | 27.69 |
| $03 / 11 / 08^{1}$ | 31.51 | 2.25 | 29.26 |
| $\mathbf{0 6 / 1 0 / 0 8}$ | $\mathbf{3 1 . 5 1}$ | $\mathbf{3 . 6 5}$ | $\mathbf{2 7 . 8 6}$ |

TB-1
06/10/08
31.51
2.98
28.53

## EXPLANATIONS:

Joint groundwater monitoring data provided by Blaine Tech Services.

* Site surveyed on June 4, 2007 by Virgil Chavez Land Surveying of Vallejo, CA.
$\mathrm{TOC}=\mathrm{Top}$ of Casing
(ft.) $=$ Feet
GWE = Groundwater Elevation
$(\mathrm{ms} 1)=$ Mean sea level
DTW = Depth to Water
1 Joint monitoring was scheduled but not conducted on the same day as Chevron 9-3553.

Table 4
Joint Groundwater Monitoring Data
Valero Station \#13781
930 Del Presidio Boulevard
San Rafael, California

| WELE ID/ | TOC | OTW | GWE |
| :---: | :---: | :---: | :---: |
| DATE | (fi) | (fi) | (mst) |

EA-1

| $06 / 11 / 07$ | 27.45 | 4.61 | 22.84 |
| :--- | :--- | :--- | :--- |
| $08 / 29 / 07^{1}$ | 27.45 | 5.88 | 21.57 |
| $12 / 11 / 07$ | 27.45 | 4.56 | 22.89 |
| $03 / 19 / 08^{1}$ | 27.45 | 4.13 | 23.32 |
| $06 / 10 / 08$ | 27.45 | 3.39 | 24.06 |

EA-2

| $06 / 11 / 07$ | 27.43 | 5.49 | 21.94 |
| :--- | :--- | :--- | :--- |
| $08 / 29 / 07^{1}$ | 27.43 | 6.03 | 21.40 |
| $12 / 11 / 07$ | 27.43 | 5.36 | 22.07 |
| $03 / 19 / 08^{1}$ | 27.43 | 3.19 | 24.24 |
| $06 / 10 / 08$ | 27.43 | $\mathbf{3 . 2 1}$ | $\mathbf{2 4 . 2 2}$ |

EA-3

| $06 / 11 / 07$ | 26.83 | 5.42 | 21.41 |
| :--- | :--- | :--- | :--- |
| $08 / 29 / 07^{1}$ | 26.83 | 6.17 | 20.66 |
| $12 / 11 / 07$ | 26.83 | 4.57 | 22.26 |
| $03 / 19 / 08^{1}$ | 26.83 | 4.35 | 22.48 |
| $\mathbf{0 6 / 1 0 / 0 8}$ | $\mathbf{2 6 . 8 3}$ | $\mathbf{5 . 4 3}$ | $\mathbf{2 1 . 4 0}$ |


| EA-4 |  |  |  |
| :--- | :--- | :--- | :--- |
| $06 / 11 / 07$ | 29.90 | 3.43 | 26.47 |
| $08 / 29 / 07^{1}$ | 29.90 | 8.38 | 21.52 |
| $12 / 11 / 07$ | 29.90 | 1.89 | 28.01 |
| $03 / 19 / 08^{1}$ | 29.90 | 3.23 | 26.67 |
| $\mathbf{0 6 / 1 0 / 0 8}$ | 29.90 | $\mathbf{3 . 2 3}$ | $\mathbf{2 6 . 6 7}$ |

EA-5

| $06 / 11 / 07$ | 26.70 | - | - |
| :--- | :---: | :---: | :---: |
| $08 / 29 / 07^{1}$ | 26.70 | 10.13 | 16.57 |
| $12 / 11 / 07$ | 26.70 | 9.36 | 17.34 |
| $03 / 19 / 08^{3}$ | 26.70 | 8.76 | 17.94 |
| $06 / 10 / 08$ | 26.70 | 2.07 | 24.63 |


| EA-7 |  |  |  |
| :--- | :--- | :--- | :--- |
| $06 / 11 / 07$ | 27.43 | 4.96 | 22.47 |
| $08 / 29 / 07^{1}$ | 27.43 | 5.85 | 21.58 |
| $12 / 11 / 07$ | 27.43 | 5.06 | 22.37 |
| $03 / 19 / 08^{1}$ | 27.43 | 4.45 | 22.98 |
| $\mathbf{0 6 / 1 0} / 08$ | $\mathbf{2 7 . 4 3}$ | $\mathbf{5 . 5 6}$ | $\mathbf{2 1 . 8 7}$ |

## Table 4

Joint Groundwater Monitoring Data
Valero Station \#13781
930 Del Presidio Boulevard
San Rafael, California

| WELLID | TOC | DTW | GWE |
| :---: | :---: | :---: | :---: |
| DATE | \&ft) | (fi) | (ms) |


| EA-8 |  |  |  |
| :--- | :---: | :---: | :---: |
| $06 / 11 / 07$ | 27.68 | 5.96 | 21.72 |
| $08 / 29 / 07^{\prime}$ | 27.68 | - | - |
| $12 / 11 / 07$ | 27.68 | 5.05 | 22.63 |
| $03 / 19 / 08^{1}$ | 27.68 | 4.23 | 23.45 |
| $06 / 10 / 08$ | 27.68 | $\mathbf{6 . 1 5}$ | $\mathbf{2 1 . 5 3}$ |


| EA-9 |  |  |  |
| :--- | :--- | :--- | :--- |
| $06 / 11 / 07$ | 27.96 | 5.58 | 22.38 |
| $08 / 29 / 07^{1}$ | 27.96 | 5.71 | 22.25 |
| $12 / 11 / 07$ | 27.96 | 5.42 | 22.54 |
| $03 / 19 / 08^{3}$ | 27.96 | 5.49 | 22.47 |
| $06 / 10 / 08$ | 27.96 | $\mathbf{5 . 5 2}$ | $\mathbf{2 2 . 4 4}$ |
|  |  |  |  |
| EA-10 | 27.11 | 3.32 | 23.79 |
| $06 / 11 / 07$ | 27.11 | 4.41 | 22.70 |
| $08 / 29 / 07^{1}$ | 28.11 | 3.94 | 24.17 |
| $12 / 11 / 07$ | 28.11 | 3.37 | 24.74 |
| $03 / 19 / 08^{1}$ | 28.11 | 3.74 | $\mathbf{2 4 . 3 7}$ |


| EA-11 |  |  |  |
| :--- | :--- | :--- | :--- |
| $06 / 11 / 07$ | 26.67 | 6.04 | 20.63 |
| $08 / 29 / 07^{1}$ | 26.67 | 6.68 | 19.99 |
| $12 / 11 / 07$ | 26.67 | 6.38 | 20.29 |
| $03 / 19 / 08^{1}$ | 26.67 | 4.43 | 22.24 |
| $06 / 10 / 08$ | 26.67 | 5.56 | 21.11 |

## EA-12

| $06 / 11 / 07$ | 26.56 | 8.85 | 17.71 |
| :--- | :--- | :--- | :--- |
| $08 / 29 / 07^{1}$ | 26.56 | 7.88 | 18.68 |
| $12 / 11 / 07$ | 26.56 | 6.39 | 20.17 |
| $03 / 19 / 08^{1}$ | 26.56 | 5.67 | 20.89 |
| $\mathbf{0 6 / 1 0 / 0 8}$ | $\mathbf{2 6 . 5 6}$ | $\mathbf{3 . 2 5}$ | $\mathbf{2 3 . 3 1}$ |

EA-13

| $06 / 11 / 07$ | 25.49 | 5.47 | 20.02 |
| :--- | :---: | :---: | :---: |
| $08 / 29 / 07^{1}$ | 25.49 | 9.45 | 16.04 |
| $12 / 11 / 07$ | 25.49 | 12.29 | 13.20 |
| $03 / 19 / 08^{1}$ | 25.49 | 2.94 | 22.55 |
| $06 / 10 / 08$ | $\mathbf{2 5 . 4 9}$ | $\mathbf{5 . 4 4}$ | $\mathbf{2 0 . 0 5}$ |

Table 4
Joint Groundwater Monitoring Data
Valero Station \#13781
930 Del Presidio Boulevard
San Rafael, California

| WELLID/ | TOC | DTW | GWE |
| :---: | :---: | :---: | :---: |
| DATE | f.) | (f). | (ms) |


| EA-14 |  |  |  |
| :--- | :--- | :--- | :--- |
| $06 / 11 / 07$ | 25.53 | 3.98 | 21.55 |
| $08 / 29 / 07^{\prime}$ | 25.53 | 2.94 | 22.59 |
| $12 / 11 / 07$ | 25.53 | 1.83 | 23.70 |
| $03 / 19 / 08^{\prime}$ | 25.53 | 1.20 | 24.33 |
| $\mathbf{0 6 / 1 0 / 0 8}$ | $\mathbf{2 5 . 5 3}$ | $\mathbf{3 . 1 5}$ | $\mathbf{2 2 . 3 8}$ |

EA-15

| $06 / 11 / 07$ | 26.55 | 5.37 | 21.18 |
| :--- | :--- | :--- | :--- |
| $08 / 29 / 07^{1}$ | 26.55 | 6.36 | 20.19 |
| $12 / 11 / 07$ | 26.55 | 4.30 | 22.25 |
| $03 / 19 / 08^{1}$ | 26.55 | 3.67 | 22.88 |
| $\mathbf{0 6} / \mathbf{1 0 / 0 8}$ | $\mathbf{2 6 . 5 5}$ | $\mathbf{5 . 5 5}$ | $\mathbf{2 1 . 0 0}$ |


| EA-16 |  |  |  |
| :--- | :--- | :--- | :--- |
| $06 / 11 / 07$ | 24.80 | 6.85 | 17.95 |
| $08 / 29 / 07^{1}$ | 24.80 | 8.62 | 16.18 |
| $12 / 11 / 07$ | 24.80 | 8.00 | 16.80 |
| $03 / 19 / 08^{3}$ | 24.80 | 5.79 | 19.01 |
| $\mathbf{0 6 / 1 0 / 0 8}$ | $\mathbf{2 4 . 8 0}$ | $\mathbf{6 . 9 6}$ | $\mathbf{1 7 . 8 4}$ |

# Table 4 

## Joint Groundwater Monitoring Data

Valero Station \#13781
930 Del Presidio Boulevard
San Rafael, California

## EXPLANATIONS:

Joint groundwater monitoring data provided by Groundwater \& Environmental Services.
TOC $=$ Top of Casing
$(\mathrm{ft})=$. Feet
GWE $=$ Groundwater Elevation
$(\mathrm{msl})=$ Mean sea level
DTW = Depth to Water
$\ldots=$ Not Measured / Not Analyzed

1 Joint monitoring was scheduled but not conducted on the same day as Chevron 9-3553.

Table 4
Joint Groundwater Monitoring Data
76 Station \#4774
Del Presidio Boulevard
San Rafael, California

| WELL ID/ DATE | TOC | DTW | $\mathrm{GWE}$ |
| :---: | :---: | :---: | :---: |
| MW-1 |  |  |  |
| 06/10/08 | 28.12 | 10.52 | 17.60 |
| MW-2 |  |  |  |
| 06/10/08 | 27.40 | 6.98 | 20.42 |
| MW-3 |  |  |  |
| 06/10/08 | 27.70 | 5.65 | 22.05 |

## EXPLANATIONS:

Joint groundwater monitoring data provided by TRC.
TOC $=$ Top of Casing
(ft.) $=$ Feet
GWE $=$ Groundwater Elevation
$(\mathrm{msl})=$ Mean sea level
DTW $=$ Depth to Water

## STANDARD OPERATING PROCEDURE GROUNDWATER SAMPLING

Gettler-Ryan Inc. field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. Prior to sample collection, the type of analysis to be performed is determined. Loss prevention of volatile compounds is controlled and sample preservation for subsequent analysis is maintained.

Prior to sampling, the presence or absence of free-phase hydrocarbons is determined using an interface probe. Product thickness, if present, is measured to the nearest 0.01 foot and is noted in the field notes. In addition, all depth to water level measurements are collected with a static water level indicator and are also recorded in the field notes, prior to purging and sampling any wells.

After water levels are collected and prior to sampling, if purging is to occur, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, suction, Grundfos), or disposable bailers. Temperature, pH and electrical conductivity are measured a minimum of three times during the purging. Purging continues until these parameters stabilize.

Groundwater samples are collected using disposable bailers. The water samples are transferred from the bailer into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used when possible. When pre-preserved containers are not available, the laboratory is instructed to preserve the sample as appropriate. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards. The samples are labeled to include the job number, sample identification, collection date and time, analysis, preservation (if any), and the sample collector's initials. The water samples are placed in a cooler, maintained at $4^{\circ} \mathrm{C}$ for transport to the laboratory. Once collected in the field, all samples are maintained under chain of custody until delivered to the laboratory.

The chain of custody document includes the job number, type of preservation, if any, analysis requested, sample identification, date and time collected, and the sample collector's name. The chain of custody is signed and dated (including time of transfer) by each person who receives or surrenders the samples, beginning with the field personnel and ending with the laboratory personnel.

A laboratory supplied trip blank accompanies each sampling set. For sampling sets greater than 20 samples, $5 \%$ trip blanks are included. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.

As requested by Chevron Environmental Management Company, the purge water and decontamination water generated during sampling activities is transported by IWM to Chemical Waste Management located in Kettleman Hill, California.

Gettler-Ryan Inc.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

| Client/Facility\#: | Chevron \#9-3553 |
| :--- | :--- |
| Site Address: | 949 Del Presidio Blvd. |
| City: |  |

Job Number: 386446
Event Date:
Sampler:



NF If Check it water coulis 1 sss hen 0.50 F $i 7=1.73$
$x 3$ case volume $=$ Estimated Purge Volume 5. gal.

Sediment Description: Volume: $\qquad$

Sampling Equipment:
Disposable Bailer
Pressure Bailer
Discrete Bailer
Peristaltic Pump
QED Bladder Pump
Other:

Weather Conditions:
$\qquad$
 gal. DTW@ Sampling: 10.26

| Conductivity | Temperature | D.O. | ORT |
| :---: | :---: | :---: | :---: |
| $(\mu m h o s / c m-\mu \mathrm{S})$ | $($ C) $/ \mathrm{F})$ | $(\mathrm{mg} / \mathrm{L})$ | $(\mathrm{mV})$ |

 ( $\mu$ mhos $/ \mathrm{cm}-\mu \mathrm{S}$ )

OR

D.O. (mV)
(2400 hr.)

Volume (gal.) $\quad \mathrm{pH}$


LABORATORY INFORMATION

$\qquad$

Gettler-Ryan Inc.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility\#: Chevron \#9-3553
Site Address: 949 Del Presidio Blvd.
City:

## San Rafael, CA

Job Number: 386446
Event Date: $\quad$ io. 10.8 (inclusive)
Sampler:

 $\times V F \ldots 7=1.16$

Check if water column is less then 0.50 ft Depth to Water w/ 80\% Recharge [(Height of Water Column $\times 0.20$ ) + DTW]: 9.69



COMMENTS: MORrISON 8"OV
$\qquad$
$\qquad$

## 9 <br> Gettler-Ryan Inc.

## WELL MONITORING/SAMPLING FIELD DATA SHEET




Gettler-Ryan Inc.

## WELL MONITORING/SAMPLING <br> FIELD DATA SHEET

| Client/Facility\#: | $\frac{\text { Chevron \#9-3553 }}{\text { Site Address: }}$949 Del Presidio Blvd. <br> City:$\quad$San Rafael, CA |
| :--- | :--- |


| Job Number: | $\frac{386446}{6 \cdot 10 \cdot 8}$ |
| :--- | :--- |
| Event Date: | (inclusive) |
| Sampler: |  |



Depth to Water
Check if water column is less then 0.50 ft .
$8.45 \times 17=1.43 \times 3$ case volume $=$ Estimated Purge Volume: 4.0 gal .
Depth to Water w/ $80 \%$ Recharge $[(H e i g h t ~ o f ~ W a t e r ~ C o l u m n ~ x ~ 0.20) ~+~ D T W): ~ 12.15 ~$




## Gettler-Ryan Inc.

## WELL MONITORING/SAMPLING FIELD DATA SHEET



| Start Time (purge): $\frac{1155}{1217 / 6.10 .8}$ |  |  |  |  |  | Weather Conditions: Hot |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |
| Approx. Flow Rate Did well de-water? | $\frac{1}{N O}$ | gpm. f yes, Tim |  |  |  | Sediment Description: |  | gal. DTW @ Sampling: 6.65 |  |
| $\begin{gathered} \text { Time } \\ (2400 \mathrm{hr} .) \end{gathered}$ | Volume (gai.) | pH | $\begin{gathered} \text { Conductivity } \\ \text { ( } \mu \text { mhos }(c m-\mu \mathrm{S}) \end{gathered}$ | Temperature <br> (C) F) | $\begin{gathered} \mathrm{D} . \mathrm{O} \\ (\mathrm{mg} / \mathrm{L}) \end{gathered}$ | $\begin{aligned} & \mathrm{ORP} \\ & (\mathrm{mV}) \end{aligned}$ |
| 12.00 | 2.5 | 7.08 | 509 | 21.3 | - | - |
| 1205 | 5.0 | 6.95 | 526 | 20.9 |  |  |
| 1209 | 10 | 6.91 | 558 | 20.3 |  |  |


|  |  |  | BORATORY IN | ORMATION |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| SAMPLEID | (\#) CONTAINER | REFRIG. | PRESERV. TYPE | LABORATORY | ANALYSES |
| MW-5 | C. $\times$ voavia! | YES | HCL | LANCASTER | TPH-G(8015)/BTEX+MTBE(8260)/ 7 OXYS (8260) |
|  | 2 |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
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|  |  |  |  |  |  |
|  |  |  |  |  |  |
| MMENTS: EMlo $12^{n}$ aic |  |  |  |  |  |



Gettler-Ryan Inc.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

| Client/Facility\#: | Chevron \#9-3553 |
| :--- | :--- |
| Site Address: | 949 Del Presidio Blvd. |
| City: | San Rafael, CA |

Job Number: 386446
Event Date:
Sampler:


Depth to Water $\frac{9.78 \mathrm{tt}}{10.22}$

Check if water column is less then 0.50 ft . Depth to Water $\frac{10.22}{\mathrm{w} / 80 \% \text { Recharge }[(H \text { Height of Water Column } \times 0.20)+\text { DTW]: }\lfloor\ell .82}$


Start Time (purge):
Sample Time/Date Approx. Flow Rate: Did well de-water?


$$
020-0-1+0
$$


gal. DTW@ Sampling: $\qquad$
Weather Conditions:
Water Color: CLEAN

$\qquad$ Sediment Description: Volume: $\qquad$

$$
\underset{(2400 \mathrm{hr} .)}{\text { Time }} \quad \text { Volume (gal.) } \quad \mathrm{pH}
$$

| DO. | ORB |
| :---: | :---: |
| $(\mathrm{mg} \mathrm{L})$ | $(\mathrm{mV})$ |




LABORATORY INFORMATION


COMMENTS: Emil $122^{" c o k}$
$\qquad$
$\qquad$

Gettler-Ryan Inc.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

| Client/Facility\#: | Chevron \#9-3553 |
| :--- | :--- |
| Site Address: | 949 Del Presidio Blvd. |
| City: | San Rafael, CA |

Job Number: 386446
Event Date: $\quad$ C 10.8 (inclusive)
Sampler: $\quad F T$


Check if water column is less then 0.50 ft . $x v=17=1.93$
$\times 3$ case volume $=$ Estimated Purge Volume: 6.0 $\qquad$ gal. Depth to Water w/ $80 \%$ Recharge [(Height of Water Column $\times 0.20)+$ DTW]: 10.88

| Purge Equipment: |
| :--- |
| Disposable Bailer |
| Stainless Steel Bailer |
| Stack Pump |
| Suction Pump |
| Grundtos |
| Peristaltic Pump |
| OED Bladder Pump |
| Other: |


| Time Started: $\qquad$ (2400 hrs) <br> Time Completed: $\qquad$ (2400 hrs) <br> Depth to Product $\qquad$ <br> Hydrocarbon Thickness: ${ }_{\mathrm{f}}^{\mathrm{f}}$ $\qquad$ ft <br> Visual Confirmation/Description: <br> Skimmer / Absorbort Sock (circle one) <br> Amt Removed from Skimmer: $\qquad$ <br> Amt Removed from Well: gal gal gal <br> Water Removed: $\qquad$ $\qquad$ <br> Product Transferred to: $\qquad$ |
| :---: |
|  |  |
|  |  |
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|  |  |
|  |  |
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|  |  |
|  |  |


| $\begin{aligned} & \text { Start Time (purge): } \frac{1430}{1450 / 6 \cdot 10-8} \\ & \text { Sample Time/Date: } \end{aligned}$ |  |  | Weather Conditions: |  | Hot |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Water Color: Cleian |  | Odor: OIN YCS |  |
| Approx. Flow Rate: | $\mathrm{NO}^{\text {If yes, }}$ |  | Sediment Description: |  | gal. DTW @ Sampling: $90^{2}$ |  |
| Did well de-water? |  |  | __Volu |  |  |  |
| $\begin{gathered} \text { Time } \\ (2400 \mathrm{hr} .) \end{gathered}$ | Volume (gal.) | pH | Conductivity ( $\mu$ mhos $/ \mathrm{cm}-\mu \mathrm{S}$ ) | Temperature <br> (E)/F) | $\begin{gathered} D . O . \\ (\mathrm{mgh}) \end{gathered}$ | $\begin{aligned} & \text { ORF } \\ & (\mathrm{mV}) \end{aligned}$ |
| 1434 | 2.0 | $\frac{699}{6.92}$ | $610$ | 211 |  |  |
| 1438 | 4.0 |  | $\frac{622}{635}$ | $\frac{20.8}{20.4}$ |  |  |
| 1441 | 6. | 6.89 | 635 | 20.4 |  |  |


| LABORATORY INFORMATION ANALYSES |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| SAMPLEID | (\#) CONTAINER | REFRIG. | PRESERV. TYPE | LABORATORY | ANALYSES |
| MW- 7 | $6 \times$ voa vial | YES | HCL | LANCASTER | TPH-G(8015)/BTEX+MTBE(8260)/ 7 OXYS (8260) |
|  | 2 |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

## COMMENTS:

$\qquad$
$\qquad$
$\qquad$
$\qquad$


## ANALYTICAL RESULTS

Prepared for:
Chevron
6001 Bollinger Canyon Rd L4310 San Ramon CA 94583


## SAMPLE GROUP

The sample group for this submittal is 1095658. Samples arrived at the laboratory on Thursday, June 12, 2008. The PO\# for this group is 0015025028 and the release number is COSTA.

Client Description
QA-T-080610 NA Water
MW-1-W-080610 Grab Water
MW-2-W-080610 Grab Water
MW-3-W-080610 Grab Water
MW-4-W-080610 Grab Water
MW-5-W-080610 Grab Water
MW-6-W-080610 Grab Water
MW-7-W-080610 Grab Water

Lancaster Labs Number
5387074
5387075
5387076
5387077
5387078
5387079
5387080
5387081


Questions? Contact your Client Services Representative
Angela M Miller at (717) 656-2300

Respectfully Submitted,

## Mivbele TM. Tumer

Michele M. Turner
Director

## Analysis Report

2425 New Holiand Pike, PO Box 12425, Lancaster, PA 17605-2425•717-656-2300 Fax:717-656-2681• www.tancastertabs.com
Page 1 of 1

Lancaster Laboratories Sample No. WW5387074
Group No. 1095658

QA-T-080610 NA Water
Facility\# 93553 Job\# 386446 GRD
949 Del Presidio-San Rafael T0604100157 QA
Collected:06/10/2008

Submitted: 06/12/2008 09:20
Reported: 06/26/2008 at 19:13
Account Number: 10904

Chevron
6001 Boliinger Canyon Rd L4310 San Ramon CA 94583

3663Q

| CAT |  | As Received |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | As Received | Method |  | Dilution |
| No. | Analysis Name | CAS Number | Result | Detection Limit | Units | Factor |
| 01728 | TPH-GRO - Waters | n. ${ }^{\text {a }}$ | N.D. | 50. | ug/1 | 1 |
| 06054 | ETEX + MTEE by 8260 E |  |  |  |  |  |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | N. D. | 0.5 | ug/1 | 1 |
| 05401 | Eenzene | 71-43-2 | N. D. | 0.5 | ug/1 | 1 |
| 05407 | Toluene | 108-88-3 | N.D. | 0.5 | ug/1 | 1 |
| 05415 | Ethylbenzene | 100-41-4 | N.D. | 0.5 | ug/1 | 1 |
| 06310 | Xylene (Total) | 1330-20-7 | N.D. | 0.5 | ug/1 | \% |

State of California Lab Certification No. 2116

A1 QC is compliant unless otherwise noted. please refex to the Quality Control Sumary for overall oC performance data and associated samples.

| CAT |  |
| :--- | :--- |
| No. | Analysis Name |
| 01728 | TFH-GRO - Waters |
| 06054 | ETEX-MTEE by $8260 B$ |
| 01146 | GC VOA Water Prep |
| 01163 | GC/MS VOA Water Prep |


| Laboratory Chronicle |  |  |  |  |  |  | Dilution |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |
| Method |  |  | Trial\# | Date and | Time | Analyst | Factor |
| SW-846 | 8015 B | modified | 1 | 06/15/2008 | $23: 53$ | Martha L Seidel | 3 |
| SW-846 | 82608 |  | 1 | 06/19/2008 | 12:03 | Ginelie L Feister | 3 |
| SW-846 | 5030 E |  | 1 | 06/15/2008 | 23:51 | Martha L Seidel | 3 |
| SW-846 | 50308 |  | 1 | 06/19/2008 | 12:03 | Ginelie L Feister | 3 |

Lancaster Laboratories Sample No. WW5387075
Group No. 1095658

MW-1-W-080610 Grab Water
Facility\# 93553 Job\# 386446 GRD
949 Del Presidio-San Rafael T0604100157 MW-1
Collected:06/10/2008 13:46 by FT

Submitted: 06/12/2008 09:20
Reported: $06 / 26 / 2008$ at $19: 13$
Discard: 07/27/2008

Account Number: 10904
Chevron
6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

36631

| CAT |  | As Received |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | As Received | Method |  | Dilution |
| No. | Analysis Name | CAS Number | Result | Detection Limit | Units | Factor |
| 01728 | TPH-GRO - Waters | n.a. | 300. | 50. | $u g / 2$ | 1 |
| 06610 | TPH-DRO (Water) w/Si Gel | n.a. | 170. | 50. | ug/1 | 1 |
| 06058 | ETEX +5 oxygenates+EDC+EDB |  |  |  |  |  |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | 82. | 0.5 | ug/1 | 1 |
| 02011 | di-Isopropyl ether | 108-20-3 | N. D. | 0.5 | ug/1 | 1 |
| 02013 | Ethyl t-butyl ether | 637-92-3 | N. D. | 0.5 | ug/1 | 1 |
| 02014 | t-Amyl methyl ether | 994-05-8 | 2. | 0.5 | ug/1 | 1 |
| 02015 | t-Butyl alcohol | 75-65-0 | 200. | 2. | ug/1 | 1 |
| 05401 | Benzene | 71-43-2 | 1. | 0.5 | ug/1 | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | N. D. | 0.5 | ug/1 | 1 |
| 05407 | Toluene | 108-88-3 | N.D. | 0.5 | ug/1 | 1 |
| 05412 | 1,2-Dibromoethane | 106-93-4 | N.D. | 0.5 | ug/1 | 1 |
| 05415 | Ethyldenzene | 100-41-4 | N.D. | 0.5 | ug/l | 2 |
| 0633.0 | Xylene (Total) | 1330-20-7 | N. D. | 0.5 | ug/1 | 1 |

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

| CAT |  |
| :--- | :--- |
| No. | Analysis Name |
| 01728 | TPH-GRO-Waters |
| 06610 | TPH-DRO (Water\} W/Si Gel |
| $0605 E$ | ETEX+5 Oxygenates+EDC+EDE |
| 01146 | GC VOA Water Frep |
| 01165 | GC/MS VOA Water Prep |
| 02376 | Extwaction -Fuel/TPH |
|  | (Waters) |


| Laboratory Chronicle |  |  |  |  |  |  | Dilution Factor |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |
| Method |  |  | Trial\# | Date and | Time | Analyst |  |
| SW-846 | 80158 | modified | 1 | 06/17/2008 | 22:03 | Steven A Skiles | 1 |
| SW-846 | 8015E |  | 1 | 06/17/2008 | 03:01 | Diane V Do | 3 |
| SW-846 | 8260 E |  | 1 | 06/20/2008 | 03:19 | Michael A Ziegler | 1 |
| SW-846 | 5030 E |  | 1 | 06/17/2008 | 22:03 | Steven A Skiles | 1 |
| SW-846 | 50308 |  | 1 | 06/20/2008 | 03:19 | Michael A ziegler | 1 |
| SW-846 | 3510 C |  | 1 | 06/15/2008 | 09:00 | Kelij M Earto | 1 |

## Analysis Report

2425 New Holiand Pike, PO Box 12425 , Lencaster, PA $17605-2425 \cdot 717-656-2300$ Fax $717-656-2681 \cdot$ wwwlancasterlabs.com
Page 1 of 1

Lancaster Laboratories Sample No. WW5387076
Group No. 1095658

MW-2-W-080610 Grab Water
Facility 93553 Job 386446 GRD
949 Del Presidio-San Rafael To604100157 MW-2
Collected:06/10/2008 13:17 by FT
Submitted: 06/12/2008 09:20
Reported: $06 / 26 / 2008$ at $19: 13$
Discard: 07/27/2008

```
Account Number: 10904
Chevron
6001 Bollinger Canyon Rd 14310
San Ramon CA 94583
```

36632

| CAT |  | As Received |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | As Received | Method |  | Dilution |
| No. | Analysis Name | CAS Number | Result | Detection Limit | Units | Factor |
| 01728 | TPH-GRO - Waters | n.a. | 1,000. | 50. | ug/l | 2 |
| 06610 | TPH-DRO (Water) w/Si Gel | ก.a. | 550. | 50. | ug/1 | 2 |
| 06058 | ETEX +5 Oxygenates + EDC + EDB |  |  |  |  |  |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | 53. | 0.5 | ug/l | $\pm$ |
| 02011 | di-Isopropyl ether | 108-20-3 | N. D. | 0.5 | ug/1 | 1 |
| 02013 | Ethyl t-butyl ether | 637-92-3 | N.D. | 0.5 | ug/1 | 2 |
| 02014 | t-Amyl methyl ether | 994-05-8 | N. D. | 0.5 | ug/ 1 | 1 |
| 02015 | t-Butyl alcohol | 75-65-0 | 180. | 2. | ug/1 | 1 |
| 05401 | Benzene | 71-43-2 | 13. | 0.5 | ug/l | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | N.D. | 0.5 | ug/1 | 1 |
| 05407 | Toluene | 108-88-3 | 3. | 0.5 | $u g / 1$ | 1 |
| 05412 | 2,2-Dibromoethane | 106-93-4 | N.D. | 0.5 | ug/1 | 1 |
| 05415 | Ethylbenzene | 100-41-4 | 2. | 0.5 | ug/1 | 1 |
| 06310 | Xylene (Total) | 1330-20-7 | 3. | 0.5 | ug/1 | 1 |

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Sumary for overall QC performance data and associated samples.

Laboratory Chronicle

| CAT |  |
| :--- | :--- |
| No. | Analysis Name |
| 01728 | TPH-GRO - Waters |
| 06610 | TFH-DRO (Water) w/Si Gel |
| 06058 | ETEX +5 Oxygenates EDC+EDE |
| 01146 | GC VOA Water Prep |
| 01163 | GC/MS VOA Water Prep |
| 02376 | Extrection - Fuel/TFH <br> (Waters) |


| Method |  | Trial\# | Analysis |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  | Date and | Time |
| SW-846 | 8015B modified | 2 | 06/17/2008 | 22:36 |
| SW-845 | 8015E | 1 | 06/17/2008 | 03:20 |
| SW-846 | 8260E | 2 | 06/20/2008 | 03:42 |
| SW-846 | 5030 E | I | 06/17/2008 | 22:36 |
| SW-846 | 5030 B | 1 | 06/20/2008 | 03:42 |
| SW-846 | 3510 C | 2 | 06/16/2008 | 09:00 |

Analyst
Steven A Skiles
Diane V Do
Michael A Ziegler
Steven A Skiles
Michael A Ziegler
Kelli M Earto
Dilution
Factor
1
1
1
1
1
1

## Analysis Report

2425 New Holland Pike, PO Eox 12425 , Lencaster, PA $17605-2425 \cdot 717-656-2300$ Fax:717-656-2681• www.lancasterlabs.com
Page 1 of 1

Lancaster Laboratories Sample No. WW5387077 Group No. 1095658

MW-3-W-080610 Grab Water
Facility\# 93553 Job\# 386446 GRD
949 Del Presidio-San Rafael T0604100157 MW-3
Collected:06/10/2008 15:20 by FT

Submitted: 06/12/2008 09:20
Reported: $06 / 26 / 2008$ at 19:13
Discard: 07/27/2008
Account Number: 10904
Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

36633

| CAT |  | As Received |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Method |  | Dilution |
| No. | Analysis Name | CAS Number | Result | Detection Limit | Units | Factor |
| 01728 | TPH-GRO - Waters | n.a. | 6,000. | 250. | ug/1 | 5 |
| 06610 | TPH-DRO (Water) w/Si Gel | n.a. | 2,000. | 160. | ug/l | 5 |
| 06058 | ETEX +5 Oxygenates+EDC+EDE |  |  |  |  |  |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | 560. | 0.5 | ug/1 | 1 |
| 02011 | di-Iscpropyl ether | 108-20-3 | N. D . | 0.5 | ug/l | 1 |
| 02013 | Ethyl t-butyl ether | 637-92-3 | 68. | 0.5 | ug/l | 1 |
| 02014 | t-Amyl methyl ether | 994-05-8 | 8. | 0.5 | ug/L | 1 |
| 02015 | t-Butyl alcohol | 75-65-0 | 6,900. | 50. | ug/l | 25 |
| 05401 | Eenzene | 71-43-2 | 330. | 3. | ug/1 | 5 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | N. D . | 0.5 | ug/1 | 1 |
| 05407 | Toluene | 108-88-3 | 3 | 0.5 | ug/1 | 1 |
| 05412 | 1,2-Dibromoethane | 106-93-4 | N.D. | 0.5 | $u \mathrm{~g} / 1$ | 1 |
| 05415 | Ethylbenzene | 100-41-4 | 76. | 0.5 | ug/1 | 1 |
| 06310 | Xylene (Total) | 1330-20-7 | 11 | 0.5 | $4 \mathrm{C} / 1$ | 1 |

State of California Lad Certification No. 2116
All QC is compliant unless otherwise noted. Please refer to the Quality Control summary for overall QC performance data and associated samples.

| CAT |  |
| :---: | :---: |
| No. | Analysis Name |
| 01728 | TPH-GRO - Waters |
| 06610 | TPH-DRO (Water) w/Si Gel |
| 06058 | ETEX +5 oxygenates+EDC+EDE |
| 06058 | ETEX +5 Oxygenates + EDC + EDE |
| 06058 | ETEX +5 Oxygenates+EDC+EDE |
| 01146 | GC VOA water Prep |
| 01163 | GC/MS VOA Water prep |
| 01163 | GC/MS VOA water Prep |
| 01163 | GC/MS VOA Water Prep |
| 02376 | Extraction - Fuel/TPH (Waters) |


| Method | Analysis |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Trial | Date and | Time | Analyst |
| SW-846 | 8015E modified | 1 | 06/17/2008 | 23:08 | Carrie E Youtzy |
| SW-846 | 8015 E | 1 | 06/17/2008 | 12:29 | Diane V Do |
| SW-846 | 8260 B | 3 | 06/20/2008 | 04:05 | Michael A Ziegler |
| SW-846 | 8260 E | 1 | 06/20/2008 | 04:28 | Michael A Ziegler |
| SW-846 | 8260 E | 1 | 06/22/2008 | 23:14 | Michael A Ziegler |
| SW-846 | 5030 E | 3 | 06/17/2008 | 23:08 | Carrie E Youtzy |
| SW-846 | 5030 E | I | 06/20/2008 | 04:05 | Michael A Zieglex |
| SW-846 | 5030 B | 2 | 06/20/2008 | 04:28 | Michael A Ziegler |
| SW-846 | 5030 E | 3 | 06/22/2008 | 23:14 | Michael A Ziegler |
| SW-846 | 3510 C | 1 | 06/16/2008 | 09:00 | Kelli M Earto |

Dilution
Factor
5
5
1
5
25
5
3
5
25
1

2425 New Holland Pike, PO Box 12425 , Lancaster, PA 17605-2425 - 717-656-2300 Fax:717-656-2681 - www.lancasterlabs.com

Lancaster Laboratories Sample No. WW5387078
Group No. 1095658

MW-4-W-080610 Grab Water
Facility\# 93553 Job\#\# 386446 GRD
949 Del Presidio-San Rafael T0604100157 MW-4
Collected:06/10/2008 14:20 by FT
Submitted: 06/12/2008 09:20
Reported: $06 / 26 / 2008$ at 19:13
Discard: 07/27/2008

Account Number: 10904

Chevron
6001 Boliinger Canyon Rd 14310
San Ramon CA 94583

36634

| CAT |  | As Received |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | As Received | Method |  | Dilution |
| No. | Analysis Name | CAS Number | Result | Detection Limit | Units | Factor |
| 01728 | TPH*GRO - Waters | n.a. | 2,600. | 50. | ug/i | 1 |
| 06610 | TPH-DRO (Water) w/si Gel | n.a. | 800. | 50. | ug/1 | 1 |
| 06058 | ETEX +5 oxygenates+EDC+EDE |  |  |  |  |  |
| 02010 | Methyl Textiary Butyl Ether | 1634-04-4 | 14. | 0.5 | ug/1 | 1 |
| 02011 | di-Isopropyl ether | 108-20-3 | N. D. | 0.5 | ug/l | 1 |
| 02013 | Ethyl t-butyl ether | 637-92-3 | 2. | 0.5 | ug/1 | 1 |
| 02014 | $t$-Amyl methyl ether | 994-05-8 | N. D. | 0,5 | ug/1 | 3 |
| 02015 | t-Butyl alconol | 75-65-0 | 470. | 2. | ug/1 | I |
| 05401 | Benzene | 71-43-2 | N. D. | 0.5 | ug/2 | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | N. D. | 0.5 | ug/1 | 1 |
| 05407 | Toluene | 108-88-3 | N.D. | 0.5 | ug/1 | 1 |
| 05412 | 1,2-Dibromoethane | 105-93-4 | N. D. | 0.5 | ug/1 | 1 |
| 05415 | Ethylbenzene | 100-41-4 | N. D. | 0.5 | ug/1 | 1 |
| 06310 | Xylene (Total) | 1330-20-7 | 0.8 | 0.5 | ug/1 | 1 |

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality
Control Sumnary for overall oc performance data and associated samples.

| CAT |  |
| :---: | :---: |
| No. | Analysis Name |
| 01728 | TPH-GRO - Weters |
| 06610 | TPH-DRO (Water) w/Si Gel |
| 06058 | ETEX + 5 Oxycenates + EDC + EDE |
| 01146 | GC VOA water Prep |
| 01163 | GC/MS VOA Water prep |
| 02376 | Extraction " Fuel/TpH (Waters) |


| Laboratory Cnmoniche |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Method |  |  | al\# | Date and | ime | Analyst |
| SW-846 | 8015 E | modified | 1 | 06/17/2008 | 23:41 | Steven A Skiles |
| SW-846 | 80158 |  | 1 | $06 / 17 / 2008$ | 03:56 | Diane $V$ Do |
| SW-846 | 82603 |  | 1 | 06/20/2008 | 04:52 | Michael A Ziegler |
| SW-845 | 5030 E |  | 1 | 06/17/2008 | 23:41 | Steven A Skiles |
| SW-846 | 5030 B |  | 1 | 06/20/2008 | 04:52 | Michael A Ziegiez |
| SW-846 | 3510 C |  | 1 | 06/16/2008 | 05:00 | Kelli M Barto |

[^3]
## Analysis Report

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Page 1 of 1

Lancaster Laboratories Sample No. WW5387079
Group No. 1095658

MW-5-W-080610 Grab Water
Facility\# 93553 Job\# 386446 GRD
949 Del Presidio-San Rafael T0604100157 MW-5
Collected:06/10/2008 12:17 by FT

Submitted: 06/12/2008 09:20
Reported: $06 / 26 / 2008$ at $19: 13$
Discard: 07/27/2008
Group No. 1095658

Account Number: 10904
Chevron
6001 Bollinger Canyon Rd 44310
San Ramon CA 94583

36635

| CAT |  | As Received |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | As Received | Method |  |  |
| No. | Analysis Name | CAS Number | Result | Detection Limit | Units | Factor |
| 01728 | TPH-GRO - Waters | n.a. | 61. | 50. | ug/1 | 1 |
| 06610 | TPH-DRO (Water) w/si Gel | n. ${ }^{\text {a }}$. | 63. | 50. | ug/l | 1 |
| 06058 | $\mathrm{BTEX}+5$ Oxygenates+EDC+EDB |  |  |  |  |  |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | 5. | 0.5 | ug/1 | 1 |
| 02011 | di-Isopropyl ether | 108-20-3 | N. D. | 0.5 | $u g / 1$ | 3 |
| 02013 | Ethyl t-butyl ether | 637-92-3 | 2. | 0.5 | ug/1 | 1 |
| 02014 | t-Amyl methyl ether | 994-05-8 | N.L. | 0.5 | $\mathrm{ug} / 1$ | 1 |
| 02015 | t-Butyl alcohol | 75-65-0 | 130. | 2. | ug/1 | 2 |
| 05401 | Benzene | 71-43-2 | N.D. | 0.5 | ug/1 | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | N.D. | 0.5 | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | N.D. | 0.5 | $u \mathrm{~g} / 1$ | 7 |
| 05412 | 1,2-Dibromoethane | 106-93-4 | N.D. | 0.5 | ug/I | 1 |
| 05415 | Ethyibenzere | 100-41-4 | N.D. | 0.5 | ug/l | 1 |
| 06310 | Xylene (Total) | 1330-20-7 | N.D. | 0.5 | ug/2 | 1 |

State of California Lab Certification No. 2116
All QC is compliant unless otherwise noted. please refex to the Quality Control Sumary for overall QC performance data and associated samples.

## Laboratory Chronicle



## Analysis Report

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Page 1 of 1

Lancaster Laboratories Sample No. WW5387080
Group No. 1095658
MW-6-W-080610 Grab Water
Facility\# 93553 Job \# 386446 GRD
949 Del Presidio-San Rafael T0604100157 MW-6
Collected:06/10/2008 12:49 by FT
Submitted: 06/12/2008 09:20
Reported: 06/26/2008 at 19:13
Discard: 07/27/2008

Account Number: 10904
Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

36636

| CAT |  | As Received |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Method |  | Dilution |
| No. | Analysis Name | CAS Number | Result | Detection Limit | Units | Factor |
| 01728 | TPH-GRO - Waters | n.a. | 68. | 50. | ug/i | 1 |
| 06610 | TPH-DRO (Water) w/Si Gel | n.a. | 77. | 50. | ug/1 | 1 |
| 06058 | BTEX +5 oxygenates+EDC+EDE |  |  |  |  |  |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | 550. | 0.5 | ug/1 | 1 |
| 02011 | di-Isopropyl ether | 108-20-3 | N. D. | 0.5 | ug/1 | 1 |
| 02013 | Ethyl t-butyl ether | 637-92-3 | 34. | 0.5 | ug/l | 1 |
| 02014 | t-Amyl methyl ether | 994-05-8 | 3 | 0.5 | ug/1 | 1 |
| 02015 | t-Butyl alcohol | 75-65-0 | 570. | 2 | ug/1 | 1 |
| 05401 | Eenzene | 71-43-2 | N. D. | 0.5 | ug/1 | 2 |
| 05402 | 3,2-Dichloroethane | 107-06-2 | N.D. | 0.5 | ug/1 | 1 |
| 05407 | Toluene | 108-88-3 | N. D. | 0.5 | ug/1 | 1 |
| 05412 | 1,2-Dibrombethane | 106-93-4 | N. D . | 0.5 | ug/1 | 1 |
| 05415 | Ethylbenzene | 100-61-4 | N. D. | 0.5 | $4 \mathrm{c} / 1$ | 1 |
| 06310 | Xylene (Total) | 1330-20-7 | N.D. | 0.5 | ug/l | 1 |

State of Califormia Lab Certification No. 2116
All QC is compliant unless otherwise noted. Please refer to the Quality Control sumary for overall oc performance data and associated samples.

| CAT |  |
| :--- | :--- |
| No. | Analysis Name |
| 01728 | TPH-GRO Weters |
| 06610 | TPH-DRO (Water) W/Si Gel |
| 06058 | ETEX+5 Oxygenates+EDC+EDE |
| 01146 | GC VOA Water Prep |
| 01163 | GC/MS VOA Water Prep |
| 02376 | Extraction - Fuei/TPH |
|  | (Waters) |


| Laboratory Chronicle |  |  | Dilution |
| :--- | :---: | :--- | :--- | :--- | :---: |
|  | Analysis | Factor |  |

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Page 1 of 1

Lancaster Laboratories Sample No. WW5387081
Group No. 1095658

```
MW-7-W-080610 Grab Water
Facility# 93553 Job# 386446 GRD
949 Del Presidio-San Rafael T0604100157 MW-7
Collected:06/10/2008 14:50 by FT
Submitted: 06/12/2008 09:20
Reported: 06/26/2008 at 19:13
Discard: 07/27/2008
```

Account Number: 10904

Chevron
6001 Bolinger Canyon Rd L4310 San Ramon CA 94583

36637

| CAT |  | As Received |  | As Received |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Method |  | Dilution |
| No. | Analysis Name | CAS Number | Result | Detection Limit | Units | Factor |
| 01728 | TPH-GRO - Waters | n.à. | 3,200. | 50 | ug/1 | 5 |
| 06610 | TPH-DRO (Water) w/Si Gel | n.a. | 1,400. | 50. | ug/1 | 1 |
| 06058 | ETEX +5 oxygenates+EDC+EDE |  |  |  |  |  |
| 02010 | Methyl Tertiary Eutyl Ether | 1634-04-4 | 330. | 0.5 | ug/l | 1 |
| 02011 | di-Isopropyl ether | 108-20-3 | N.D. | 0.5 | $4 \mathrm{l} / 1$ | 1 |
| 02013 | Ethyl t-butyl ether | 637-92-3 | 5. | 0.5 | ug/i | 1 |
| 02014 | $t$-Amyl methyl ether | 994-05-8 | 3 | 0.5 | ug/1 | 1 |
| 02015 | t-Butyl alcohol | 75-65-0 | 210. | 2. | ug/2 | 1 |
| 05401 | Benzene | $71-43-2$ | 200. | 3. | ug/L | 5 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | N, D. | 0.5 | ug/1 | 2 |
| 05407 | Toluene | 108-88-3 | 3. | 0.5 | ug/1 | 1 |
| 05412 | 1,2-Dibromoethane | 106-93-4 | N.D. | 0.5 | $\mathrm{ug} / 1$ | 1 |
| 05415 | Ethylbenzene | 100-41-4 | 130. | 0.5 | ug/1 | 1 |
| 06310 | Xylene (Total) | 1330-20-7 | 11. | 0.5 | $u \mathrm{~g} / \mathrm{i}$ | 1 |

State of California Lab Certification No. 2116
All $Q C$ is compliant unless otherwise noted. please refer to the Quality Control Sumary for overall QC performance data and associated samples.

| CAT |  |
| :--- | :--- |
| No. | Analysis Name |
| 01728 | TPH-GRO-Waters |
| 06610 | TPH-DRO (Water) w/Si Ge3 |
| 06058 | ETEX 5 OxyGenates+EDC+EDE |
| 06058 | ETEX+5 Oxygenates+EDC+EDB |
| 01146 | GC VOA Weter Exep |
| 01163 | GC/MS VOA Water Frep |
| 01163 | GC/MS VOA Water prep |
| 02376 | Extraction -Fuel/TPK |
|  | (Waters) |



Page 1 of 4

## Quality Control Summary

## Client Name: Chevron <br> Reported: 06/26/08 at 07:13 PM

Group Number: 1095658

Matrix OC may not be reported if site-specific QC samples were not
suomitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.


Sample Matrix Quality Control
Unspiked (UNSPK) $=$ the sample used in conjunction with the matrix spike Background (EKG) = the sample used in conjunction with the duplicate

|  | MS | MSD | MS/MSD |  | RPD | BKG | DUP | DUP | Dup RPD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Analysis Name | 是REC | \%REC | Limits | RPD | MAX | Conc | Conc | RPD |  |
| Eatch number: 08166A07E | Sample number(s) : 5387075-5387081 UnSPK: P388908 |  |  |  |  |  |  |  |  |
| TPH-GRO - Waters | 111 |  | 63-154 |  |  |  |  |  |  |
| Batch number: 08167A15A | $\begin{aligned} & \text { Sample number(s): } 5387074 \text { UNSPK: P387071 } \\ & 118 \\ & 63-154 \end{aligned}$ |  |  |  |  |  |  |  |  |

*- Outside of specification
(1) The result for one or both deteminations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.


## Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.
Analysis Name: TPH-DRO (Water) w/Si Gel
Batch number: 081660023 A .
Orthoterphenyl

| 5387075 | 87 |
| :--- | :--- |
| 5387076 | 96 |
| 5387077 | 113 |
| 5387078 | 94 |
| 5387079 | 94 |
| 5387080 | 90 |
| 5387081 | 90 |
| Blank | 82 |
| LCS | 101 |
| LCSD | 104 |

Iimits: 59-131
Analysis Name: TPH-GRO - Waters
satch number: 08166A07E
Trifluorotoluene- $F$
*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

# Quality Control Summary 

Client Name: Chevron
Group Number: 1095658
Reported: 06/26/08 at 07:13 PM
Surrogate Quality Control

| 5387075 | 122 |
| :---: | :---: |
| 5387076 | 139* |
| 5387077 | 134 |
| 5387078 | 158* |
| 5387079 | 111 |
| 5387080 | 111 |
| 5387081 | 130 |
| Biank | 112 |
| LCS | 124 |
| LCSD | 123 |
| MS | 123 |
| Limits: 63-135 |  |
| Analysis Name: TPH-GRO - Waters <br> Eatch number: 08167A15A <br> Trifluorotoluene-F |  |
|  |  |
| 5387074 | 92 |
| Elank | 98 |
| LCS | 105 |
| LCSD | 109 |
| MS | 118 |
| Limits | 63-1 |



Analysis Name: ETEX+MTBE by 82608
Batch number: 2081712A
*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

## Analysis Report

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Page 4 of 4

## Quality Control Summary

| Client Name: Chevron |  | Group Number: 1095658 |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Reported: $06 / 26 / 08$ at 07:13 PM Surrogate Quality Control |  |  |  |  |
|  |  |  |  |  |
|  | Dibromofluoromethane | 1,2-Dichloroethane-d4 | Toluene-de | 4-Bromofluorobenzene |
| 5387074 | 98 | 91 | 96 | 94 |
| Elank | 98 | 90 | 98 | 95 |
| LeS | 96 | 88 | 97 | 102 |
| MS | 96 | 89 | 96 | 101 |
| MSD | 96 | 88 | 96 | 101 |
| Limits: | 80-116 | 77-113 | $80-113$ | 78-113 |

*. Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

## Lancaster Laboratories Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

U.S. EPA data qualifiers:

## Organic Qualifiers

A TIC is a possible aldol-condensation product
B Analyte was also detected in the blank
C Pesticide result confirmed by GC/MS
D Compound quatitated on a diluted sample
E Concentration exceeds the calibration range of the instrument
J Estimated value
N Presumptive evidence of a compound (TICs only)
P Concentration difference between primary and confirmation columns $>25 \%$

## Inorganic Qualifiers

B Value is $<$ CRDL, but $\geq$ IDL
E Estimated due to interference
M Duplicate injection precision not met
N Spike amount not within control limits
S Method of standard additions (MSA) used for calculation
U Compound was not detected
W Post digestion spike out of control limits

* Duplicate analysis not within control limits
$+\quad$ Correlation coefficient for MSA <0.995

U Compound was not detected
$X, Y, Z \quad$ Defined in case narrative
Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.
Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.
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# VALERO MARKETING AND SUPPLY COMPANY 

$$
21-0048
$$

Second Quarter 2008
Groundwater Monitoring Report
Valero Station \#13781
930 Del Presidio Blvd.
San Rafael, California

| SITE Address: | Valero Station \#13781 | REGULATORY AGENCY: | Regional Water Quality Control Board, |
| :---: | :---: | :---: | :---: |
|  | 930 Del Presidio Blvd |  | San Francisco Bay Region |
|  | San Rafael, CA | Regulatory Contact: | Ralph Lambert |
|  |  | REGULATORY CASE \#: | 21-0048 |
| Remediation | Inactive | LOCAL OVERSIGHT: | Las Gallinas Valley Sanitary Sewer |
| SYSTEM: |  |  | District |
| Valero Contact: | Robert Ehlers |  | Mark Williams |
|  |  | GEOTRACKER Global ID: | T0604100047 |

## GAUGING DATE: <br> SAMPLING DATE: REPORT DATE: Current Site Status: MONITORING PERIOD:

June 10, 2008
June 10-11, 2008
August 19, 2008
Active Valero-branded service station
Second Quarter 2008

## WORK PERFORMED:

Groundwater wells were gauged, sampled and analyzed for total petroleum hydrocarbons as gasoline (TPH-g), total petroleum hydrocarbons as diesel (TPH-d), methyl tert-butyl ether (MTBE), benzene, toluene, ethylbenzene, and total xylenes (BTEX), and tertbutyl alcohol (TBA).

## Groundwater Monitoring:

Number of Wells:
Liquid Phase Hydrocarbons (LPH):
Gauging Frequency:
Sampling Frequency:
Groundwater Depth: Groundwater Flow:
Hydraulic Gradient:

## 15

None observed
All wells Quarterly
10 Wells Quarterly, 5 Wells Annually
Between 2 and 7 feet below ground surface
Southwest
$0.027 \mathrm{ft} / \mathrm{ft}$

## CURRENT STATUS/PLANS/RECOMMENDATIONS

All groundwater monitoring wells were gauged and fourteen wells were sampled; well EA4 was not sampled this quarter. Benzene was detected in four wells with a maximum concentration of 200 micrograms per liter ( $\mu \mathrm{g} / \mathrm{L}$ ) in well EA7. TPH-g was detected in six wells, with a maximum concentration of $2,100 \mu \mathrm{~g} / \mathrm{L}$ in well EA7. MTBE was detected in ten wells with a maximum detected concentration of $140 \mu \mathrm{~g} / \mathrm{L}$ in well EA7. TBA was detected in eight wells with a maximum concentration of $1,500 \mu \mathrm{~g} / \mathrm{L}$ in well EA1.

The site has been recommended for closure and California Regional Water Quality Control Board personnel has approved well destructions. Wells EA1, EA2, EA3, EA4, EA5, EA7, EA8, EA10, EA12, EA13, EA14, and EA15 will be destroyed in accordance with well destruction permits by either grouting in place or drilling out. The wells will be destroyed upon receipt of well destruction permits.

Ownership of wells EA9, EA11, and EA16 will be transferred to other companies for continued monitoring.

## SITE SPECIFIC GEOLOGY/HYDROGEOLOGY:

This site is located in the San Rafael Groundwater Basin. Sediments beneath the site are composed of discontinuous layers of gravels, sands and clays over poorly cemented mudstone bedrock. Regionally, groundwater flows southeast towards San Francisco Bay. The site is approximately 25 feet above sea level.

## POTENTIAL SENSITIVE RECEPTORS:

According to an archive search of Department of Water Resources, there are no wells within 1,000 feet of this site.

## BACKGROUND

This site has been in use as a service station since 1963. In 1987, when four steel, single-walled underground storage tanks (USTs) were removed, a hole in one of the tanks was observed, with product in the excavated tank pit. The steel tanks were replaced by three single-walled fiberglass gasoline USTs, one single-walled fiberglass diesel UST, and one single-walled fiberglass used oil tank UST. At this time four monitoring wells were instalied, with the additional wells being added in 1988, 1991, and 1995. In 1993 a groundwater extraction and treatment system was installed.

## REMEDIATION SYSTEM SUMMARY:

The current groundwater extraction system consists of one 6 -inch groundwater extraction well (EA5), a pneumatic extraction pump, and three 1,000 -pound aqueous-phase granular activated carbon canisters.

GES took over remedial operations from Environmental Resolutions, Inc. in January 2007, and applied for system discharge permits from Las Gallinas Valley Sanitary District. The remediation system was non-operational in the first quarter of 2007. The remediation system was started May 23, 2007. Since that time, the system has maintained a $100 \%$ uptime. The system was shut down on March 20,2008 due to low hydrocarbon concentrations in the influent and on site. During the life of the treatment system a total of 860,294 gallons of water was recovered, treated, and discharged. Of that total, 113,684 gallons of water was treated and discharged while GES operated the system. The approximate total hydrocarbon mass recovery by the treatment system during this period of time was 0.27 pounds.
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Attachments:
Figures:
Figure 1 - Site Location Map
Figure 2 - Groundwater Elevation Map
Figure 3 - Analytical Distribution Map
Figure 4 - Benzene Isoconcentration Map
Figure 5- TPH-g Isoconcentration Map
Figure 6 - MTBE Isoconcentration Map
Figure 7 - TBA Isoconcentration Map
Hydrographs for Wells EA1, EA2, EA3, EA5, EA7, EA8, EA9, EA15


Tables:
Table 1 - Well Construction Details
Table 2 - Cumulative Groundwater Sampling Data
Table 3 - Additional Cumulative Groundwater Sampling Data
Table 4 - San Rafael System Operation
Field Protocols
Field Sheets
Lab Report


SOURCE: USGS 7.5 MINUTE SERIES
TOPOGRAPHIC QUADRANGLE 1980
NOVATO. CALIFORNIA
CONTOUR $\operatorname{INTERVAL}=40^{\circ}$


QUADRANGLE LOCATION

| DRAFTED BY: M.J.L. (S.D.) | SITE LOCATION MAP |  |  |
| :---: | :---: | :---: | :---: |
| CHECKED BY: | VALERO STATION \#13781 930 DEL PRESIDIO SAN RAFAEL, CALIFORNIA |  |  |
| REVIEWED BY: |  |  |  |
|  | Groundwater \& Environmental Services, Inc. 5046 COMMERCIAL CIRCLE, SUITE F, CONCORD, CALIFORNIA 94520 |  |  |
|  | SCALE IN FEET | DATE | FIGURE |
|  |  | 6/2007 | 1 |



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TABLE 1
WELL CONSTRUCTION DETAILS


[^4]Notes:
TOC Elev.

|  |  |  |  |  | MUL | GROUN Valero 3 Del P San Ra (Pa | E 2 <br> TER S <br> on 1378 o Boulev Californi of 29) | NG DATA |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Well ID | Sampling <br> Date | $\begin{aligned} & \text { TOC } \\ & \text { (feet) } \end{aligned}$ | $\begin{aligned} & \text { DTW } \\ & \text { (feet) } \end{aligned}$ | GW Elev. (feet) | SUBJ | $\begin{aligned} & \text { TPHd } \\ & (\mu \mathrm{g} / \mathrm{L}) \end{aligned}$ | TPHg ( $\mu \mathrm{g} / \mathrm{L}$ ) | $\begin{aligned} & \text { MTBE } \\ & (\mu \mathrm{g} / \mathrm{L}) \\ & \hline \end{aligned}$ | $\begin{gathered} \mathrm{B} \\ (\mu \mathrm{~g} / \mathrm{L}) \end{gathered}$ | $\begin{gathered} \mathrm{T} \\ (\mu \mathrm{~g} / \mathrm{L}) \end{gathered}$ | $\begin{gathered} \mathrm{E} \\ (\mu \mathrm{~g} / \mathrm{L}) \end{gathered}$ | $\begin{gathered} \mathrm{X} \\ (\mu \mathrm{~g} / \mathrm{L}) \\ \hline \end{gathered}$ |
| EA1 | 12/21/87 | 25.12 | -- | -- | --- | -- | 35,000 | --- | 1,200 | 220 | 1,900 | 2,100 |
| EA1 | 06/29/88 | 25.12 | --- | --- | --- | --- | 8,000 | --- | 700 | 10 | <2 | 520 |
| EA1 | 11/18/88 | 25.12 | --- | --- | --- | --- | 6,700 | --- | 590 | 60 | 520 | 400 |
| EA1 | 01/09/89 | 25.12 | 3.69 | 21.43 | NLPH | --- | --- | --- | --- | --- | --- | --- |
| EA1 | 01/17/89 | 25.12 | 3.67 | 21.45 | NLPH | -- | -- | --- | --- | --- | --- | --- |
| EA1 | 02/15/89 | 25.12 | 3.66 | 21.46 | NLPH | --- | 11,000 | --- | 1,400 | 120 | 2,000 | 1,400 |
| EA1 | 05/30/89 | 25.12 | 3.32 | 21.80 | NLPH | --- | --- | --- | --- | --- | --- | --- |
| EA1 | 06/01/89 | 25.12 | --- | --- | --- | --- | 13,000 | --- | 1,000 | 92 | 1,800 | 2,300 |
| EA1 | 08/10/89 | 25.12 | 4.10 | 21.02 | NLPH | -- | 10,000 | --- | 450 | 23 | 1,500 | 190 |
| EA1 | 01/16/90 | 25.12 | 3.90 | 21.22 | NLPH | --- | 1,000 | --- | 170 | 30 | 18 | 100 |
| EA1 | 04/12/90 | 25.12 | 4.06 | 21.06 | NLPH | --- | 5,000 | --- | 330 | 13 | 970 | 47 |
| EA1 | 07/10/90 | 25.12 | 3.76 | 21.36 | NLPH | --- | 4,300 | --- | 170 | 13 | 710 | 40 |
| EA1 | 10/08/90 | 25.12 | 4.71 | 20.41 | NLPH | --- | --- | --- | --- | --- | --- | --- |
| EA1 | 10/10/90 | 25.12 | --- | --- | --- | 700 | 2,500 | --- | 26 | 3.9 | 310 | <2.5 |
| EA1 | 01/22/91 | 25.12 | 4.64 | 20.48 | NLPH | 70 | 1,900 | --- | 60 | 5.1 | 360 | 18 |
| EA1 | 04/03/91 | 25.12 | 2.29 | 22.83 | NLPH | 70 | 1,900 | --- | 1,100 | 5.1 | 360 | 18 |
| EA1 | 06/24/91 | 25.12 | --- | --- | --- | 1,300 | 2,500 | --- | 110 | 3.2 | 310 | <7.5 |
| EA1 | 06/28/91 | 25.12 | 4.75 | 20.37 | NLPH | --- | --- | --- | --- | --- | --- | --- |
| EA1 | 10/03/91 | 25.12 | 7.78 | 17.34 | NLPH | 850 | 910 | --- | 9.4 | 3.5 | 43 | <0.5 |
| EA1 | 01/23/92 | 25.12 | 5.12 | 20.00 | NLPH | 600 | 1,100 | --- | 39 | 3.1 | 87 | 18 |
| EA1 | 04/28/92 | 25.12 | 2.46 | 22.66 | NLPH | 4,100 | 9,100 | --- | 560 | 42 | 1,100 | 390 |
| EA1 | 07/23/92 | 25.12 | 4.53 | 20.59 | NLPH | 1,200 | 1,800 | --- | 32 | 1.7 | 1.0 | 37 |
| EA1 | 10/22/92 | 25.12 | 6.14 | 18.98 | NLPH | 310 | 750 | --- | 8.2 | 0.7 | 1.6 | 0.6 |
| EA1 | 01/25/93 | 25.12 | 2.15 | 22.97 | NLPH | 1,900 | 3,500 | --- | 560 | 7.2 | 260 | 71 |
| EA1 | 04/13/93 | 25.12 | 4.30 | 20.82 | NLPH | 1,900 | 3,100 | --- | 190 | <5 | 120 | 5 |
| EA1 | 07/02/93 | 25.12 | 4.55 | 20.57 | NLPH | 1,800 | 1,700 | --- | 53 | 7.6 | 140 | 16 |
| EA1 | 10/12/93 | 25.12 | 7.91 | 17.21 | NLPH | 1,200 | 990 | --- | 4.2 | 1.9 | 2.5 | 3.2 |
| EA1 | 01/13/94 | 25.12 | 4.88 | 20.24 | NLPH | 2,600 | 2,900 | --- | 100 | 8.6 | 190 | 26 |
| EA1 | 04/04/94 | 25.12 | 4.70 | 20.42 | NLPH | 1,400 | 1,800 | -- | 37 | 1.9 | 36 | 9.9 |
| EA1 | 07/14/94 | 25.12 | 4.64 | 20.48 | NLPH | 1,500 | 2,900 | --- | 39 | 5.1 | 120 | 11 |
| EA1 | 10/12/94 | 25.12 | 7.39 | 17.73 | NLPH | 680 | 630 | --- | 10 | 6.1 | 7.8 | 2.6 |
| EA1 | 01/09/95 | 25.12 | 3.37 | 21.75 | NLPH | <50 | $<50$ | -- | <0.5 | $<0.5$ | $<0.5$ | $<0.5$ |
| EA1 | 04/12/95 | 25.12 | 2.13 | 22.99 | NLPH | 150b | $<50$ | -- | 1.1 | $<0.5$ | 1.3 | <0.5 |
| EA1 | 07/10/95 | 25.12 | 4.50 | 20.62 | NLPH | 590b | 570 | 60 | 9.4 | 1.5 | 16 | 0.89 |
| EA1 | 10/13/95 | 25.12 | 7.28 | 17.84 | NLPH | 140 | $<50$ | 100 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| EA1 | 01/17/96 | 25.12 | 3.49 | 21.63 | NLPH | 240 | 110 | 6.0 | 0.86 | $<0.5$ | 3.3 | $<0.5$ |
| EA1 | 04/04/96 | 25.12 | 1.60 | 23.52 | NLPH | 110 | $<50$ | $<2.5$ | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| EA1 | 07/15/96 | 25.12 | 3.66 | 21.46 | NLPH | 160d | $<50$ | <2.5 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| EA1 | 10/21/96 | 25.12 | 2.86 | 22.26 | NLPH | 450d | 200 i | 250 | 26 | $<0.5$ | 3.6 | 1.8 |
| EA1 | 01/07/97 | 25.12 | 2.68 | 22.44 | NLPH | 270d | 350 | 150 | 19 | 1.3 | 3.9 | 3.9 |
| EA1 | 04/28/97 | 25.12 | 2.33 | 22.79 | NLPH | 390d | 710 | 310 | 35 | $<1.2$ | 3.7 | $<1.2$ |
| EA1 | 07/22/97 | 25.12 | 2.07 | 23.05 | NLPH | 1,600d | 2,000 | 1,400 | 150 | <5.0 | 30 | 7.3 |
| EA1 | 10/14/97 | 25.12 | 2.25 | 22.87 | NLPH | 240d | 110 | 540 | 9.1 | <1.0 | $<1.0$ | $<1.0$ |
| EA1 | 01/13/98 | 25.12 | 1.96 | 23.16 | NLPH | 280d | 160 | 480 | 7.2 | 1.1 | 2.8 | 0.53 |
| EA1 | 04/14/98 | 25.12 | 2.74 | 22.38 | NLPH | 150d | 100i | 640 | 1.9 | $<0.5$ | $<0.5$ | $<0.5$ |
| EA1 | 07/14/98 | 25.12 | 2.30 | 22.82 | NLPH | 190d | 110 | 220 | <0.5 | $<0.5$ | $<0.5$ | $<0.5$ |


| $\begin{gathered} \hline \text { Well } \\ \text { ID } \\ \hline \end{gathered}$ | $\begin{aligned} & \hline \text { Sampling } \\ & \text { Date } \\ & \hline \end{aligned}$ | $\begin{gathered} \hline \text { TOC } \\ \text { (feet) } \\ \hline \end{gathered}$ | $\begin{aligned} & \begin{array}{l} \text { DTW } \\ \text { (feet) } \end{array} \end{aligned}$ | GW Elev. (feet) | SUBJ | $\begin{aligned} & \hline \text { TPHd } \\ & (\mu \mathrm{g} / \mathrm{L}) \\ & \hline \end{aligned}$ | $\begin{aligned} & \begin{array}{l} \mathrm{TPHg} \\ (\mu \mathrm{~g} / \mathrm{L}) \end{array} \\ & \hline \end{aligned}$ | $\begin{aligned} & \begin{array}{l} \text { MTBE } \\ (\mu \mathrm{g} / \mathrm{L}) \end{array} \\ & \hline \end{aligned}$ | $\begin{gathered} \mathrm{B} \\ (\mu \mathrm{~g} / \mathrm{L}) \end{gathered}$ | $\begin{gathered} \top \\ (\mu \mathrm{g} / \mathrm{L}) \end{gathered}$ | $\begin{gathered} E \\ (\mu \mathrm{~g} / \mathrm{L}) \end{gathered}$ | $\begin{gathered} X \\ (\mu \mathrm{~g} / \mathrm{L}) \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| EA1 | 10/13/98 | 25.12 | 2.71 | 22.41 | NLPH | 120d | $<50$ | 99 | <0.5 | <0.5 | <0.5 | <0.5 |
| EA1 | 01/19/99 | 25.12 | 3.86 | 21.26 | NLPH | 120 | 500 | 150 | 1.1 | 3.0 | 0.58 | 1.3 |
| EA1 | 06/24/99 | 25.12 | 2.35 | 22.77 | NLPH | 172 | $<50$ | 939 | <0.5 | $<0.5$ | $<0.5$ | $<0.5$ |
| EA1 | 09/21/99 | $25.02 f$ | 2.70 | 22.32 | NLPH | 171d | <500 | 5,300 | 11.0 | 30.0 | 13.4 | 37.0 |
| EA1 | 12/30/99 | 25.02 | 3.16 | 21.86 | NLPH | 960 | 500 | 31,000 | 57 | <2.5 | 3.5 | <2.5 |
| EA1 | 03/22/00 | 25.02 | 2.54 | 22.48 | NLPH | 260 | 370 | 35,000/51,000k | 15 | <2.5 | <2.5 | <2.5 |
| EA1 | April-2000 | 25.02 | Property transferred from Exxon Mobil to Valero. |  |  |  |  |  |  |  |  |  |
| EA1 | 06/15/00 | 25.02 | 2.54 | 22.48 | NLPH | 250 | <250 | 33,000 | 8.1 | <2.5 | <2.5 | <2.5 |
| EA1 | 09/27/00 | 25.02 | 2.98 | 22.04 | NLPH | 830 | 1,100 | 31,000 | 210 | 12 | 21 | 7.4 |
| EA1 | 12/28/00 | 25.02 | 3.95 | 21.07 | NLPH | 1,000 1 | 980 | 28,000 | 120 | 8.9 | 4.9 | <2.5 |
| EA1 | 03/27/01 | 25.02 | 2.33 | 22.69 | NLPH | 1,200 | 2,200 | 28,000 | 210 | 11.0 | 30.0 | 8.4 |
| EA1 | May-2001 | 25.02 | Property transferred from Valero to Petroleum Sales Inc. |  |  |  |  |  |  |  |  |  |
| EA1 | 06/26/01 | 25.02 | 3.84 | 21.18 | NLPH | 480 | 800 | 20,000 | 64 | 2.5 | $<0.5$ | 1.75 |
| EA1 | 09/25/01 | 25.02 | 4.45 | 20.57 | NLPH | 390 | 440 | 27,000 | 7.4 | <2.5 | <2.5 | <2.5 |
| EA1 | Nov-2001 | 27.45 | Well surveyed in compliance with AB 2886 requirements. |  |  |  |  |  |  |  |  |  |
| EA1 | 12/28/01 | 27.45 | 4.37 | 23.08 | NLPH | 534 | 28,900 | 22,400 | 2.10 | 1.90 | <1.00 | 2.60 |
| EA1 | 03/28/02 | 27.45 | 2.66 | 24.79 | NLPH | 880 | <25,000 | 115,000 | 310 | 38.0 | 34.0 | 13.0 |
| EA1 | 06/26/02 | 27.45 | 3.32 | 24.13 | NLPH | 1,000 | 32,800 | 67,800 | 109 | 6.20 | 0.70 | 4.30 |
| EA1 | 09/30/02 | 27.45 | 3.13 | 24.32 | NLPH | -- | --- | --- | --- | --- | --- | --- |
| EA1 | 10/14/02 | 27.45 | 3.41 | 24.04 | NLPH | 472 | 59.2 | 23.6 | <0.50 | $<0.50$ | <0.50 | $<0.50$ |
| EA1 | 12/27/02 | 27.45 | 2.28 | 25.17 | NLPH | 1,600 | 14,700 | 17,200 | 353 | 39.6 | 49.6 | 25.7 |
| EA1 | 03/20/03 | 27.45 | 3.22 | 24.23 | NLPH | 955 | 9,050 | 7,400 | 180 | 14.6 | 16.6 | 13.7 |
| EA1 | 05/23/03 | 27.45 | 2.28 | 25.17 | NLPH | 1,340 | 5,900 | 12,600 | 232 | 26.5 | 41.5 | 24.4 |
| EA1 | 08/01/03 | 27.45 | 3.81 | 23.64 | NLPH | 840 | 899 | 350 | 23.1 | 1.80 | 0.90 | 1.20 |
| EA1 | 10/17/03 | 27.45 | 4.60 | 22.85 | NLPH | 375 | 709 | 498 | 12.4 | 1.10 | 1.70 | 4.20 |
| EA1 | 01/23/04 | 27.45 | 4.51 | 22.94 | NLPH | 212 | 1,200 | 440 | 3.50 | <2.50 | <2.50 | <2.50 |
| EA1 | 05/27/04 | 27.45 | 4.24 | 23.21 | NLPH | 283 | 755 | 90.4 | 25.8 | 0.70 | 0.60 | 0.90 |
| EA1 | 08/27/04 | 27.45 | 5.29 | 22.16 | NLPH | 198 | 242 | 80.3 | 2.00 | <0.50 | <0.50 | <0.50 |
| EA1 | 12/01/04 | 27.45 | 4.54 | 22.91 | NLPH | 237b | 214 | 67.3 | <0.50 | $<0.50$ | $<0.50$ | $<0.50$ |
| EA1 | 03/03/05 | 27.45 | 4.55 | 22.90 | NLPH | 425b | 474 | 63.2 | 0.70 | $<0.50$ | 0.90 | 2.20 |
| EA1 | 06/23/05 | 27.45 | 4.59 | 22.86 | NLPH | 415 b | 155 | 52.2 | 0.70 | <0.50 | <0.50 | <0.50 |
| EA1 | 09/22/05 | 27.45 | 4.51 | 22.94 | NLPH | 217 b | 128 | 30.0 | $<0.500$ | $<0.500$ | $<0.500$ | $<0.500$ |
| EA1 | 12/21/05 | 27.45 | 4.52 | 22.93 | NLPH | 354b | 266 | 25.6 | <0.500 | $<0.500$ | <0.500 | <0.500 |
| EA1 | 03/22/06 | 27.45 | 5.81 | 21.64 | NLPH | 240 b | 360 | 16 | <0.50 | <0.50 | <0.50 | <0.50 |
| EA1 | 06/13/06 | 27.45 | 4.07 | 23.38 | NLPH | 57b | 260 | 24w | 0.98w | <0.50w | <0.50w | <0.50w |
| EA1 | 09/22/06 | 27.45 | 4.34 | 23.11 | NLPH | 100b | 189 | 23.0 | $<0.500$ | $<0.500$ | <0.500 | $<0.500$ |
| EA1 | 12/21/06 | 27.45 | 4.36 | 23.09 | NLPH | 110b | 352 | 13.7 | <0.500 | <0.500 | 0.550 | 0.800 |
| EA1 | 03/20/07 | 27.45 | 2.59 | 24.86 | NLPH | <400 | 400 | 76 | 40 | 0.90 | 0.64 | 0.75 |
| EA1 | 6/11/2007 | 27.45 | 4.61 | 22.84 | NLPH | <100 | 420 | 32 | 48 | 2 | $<0.50$ | 0.78 |
| EA1 | 08/29/07 | 27.45 | 5.88 | 21.57 | NLPH | $<300$ | 170 | 14 | 0.90 | <0.50 | <0.50 | $<0.50$ |
| EA1 | 12/11/07 | 27.45 | 4.56 | 22.89 | NLPH | <200 | 220 | 7.7 | $<0.50$ | <0.50 | <0.50 | <0.50 |
| EA1 | 03/19/08 | 27.45 | 4.13 | 23.32 | NLPH | <200 | 130 | 7.2 | <0.80 | <0.80 | <0.80 | <0.80 |
| EA1 | 06/10/08 | 27.45 | 3.39 | 24.06 | NLPH | 230 | 120 | 7.4 | <0.50 | <0.50 | <0.50 | <0.50 |
| EA2 | 12/21/87 | 24.78 | --- | --- | --- | --- | 7,000 | -- | 1,000 | 160 | 410 | 610 |
| EA2 | 06/29/88 | 24.78 | - | -- | --- | --- | 160 | --- | <0.2 | <0.2 | <0.2 | $<0.2$ |


| $\begin{gathered} \hline \text { Well } \\ \text { ID } \\ \hline \end{gathered}$ | Sampling Date | $\begin{aligned} & \text { TOC } \\ & \text { (feet) } \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { DTW } \\ & \text { (feet) } \\ & \hline \end{aligned}$ | GW Elev. (feet) | SUBJ | $\begin{gathered} \text { TPHd } \\ (\mu \mathrm{g} / \mathrm{L}) \\ \hline \end{gathered}$ | $\begin{aligned} & \begin{array}{l} \mathrm{TPHg} \\ (\mathrm{\mu g} / \mathrm{L}) \\ \hline \end{array} \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { MTBE } \\ & (\mu \mathrm{g} / \mathrm{L}) \\ & \hline \end{aligned}$ | $\begin{gathered} \mathrm{B} \\ (\mu \mathrm{~g} / \mathrm{L}) \\ \hline \end{gathered}$ | $\begin{gathered} \mathrm{T} \\ (\mu \mathrm{~g} / \mathrm{L}) \\ \hline \end{gathered}$ | $\begin{gathered} E \\ (\mu \mathrm{~g} / \mathrm{L}) \end{gathered}$ | $\begin{gathered} \mathrm{X} \\ (\mu \mathrm{~g} / \mathrm{L}) \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| EA2 | 11/18/88 | 24.78 | --- | --- | --- | $\cdots$ | 700 | --- | 210 | 18 | 57 | 300 |
| EA2 | 01/09/89 | 24.78 | 2.78 | 22.00 | NLPH | -- | --- | --- | - | --- | --- | --- |
| EA2 | 01/17/89 | 24.78 | 2.76 | 22.02 | NLPH | --- | $\cdots$ | --- | -- | --- | $\cdots$ | --- |
| EA2 | 02/15/89 | 24.78 | 2.91 | 21.87 | NLPH | -- | 1,400 | - | 38 | 19 | 120 | 47 |
| EA2 | 05/30/89 | 24.78 | 2.52 | 22.26 | NLPH | --- | NS | --- | NS | NS | NS | NS |
| EA2 | 06/01/89 | 24.78 | -- | --- | --- | --- | 1,500 | --- | 380 | 11 | 210 | 54 |
| EA2 | 08/10/89 | 24.78 | 3.63 | 21.15 | NLPH | -- | <250 | --- | 29 | 3.0 | 5.0 | 3.0 |
| EA2 | 01/16/90 | 24.78 | 3.00 | 21.78 | NLPH | -- | 380 | --- | 75 | 5.0 | 20 | 11 |
| EA2 | 04/12/90 | 24.78 | 3.83 | 20.95 | NLPH | --- | 520 | --- | 140 | 6.0 | 49 | 8.2 |
| EA2 | 07/10/90 | 24.78 | 3.25 | 21.53 | NLPH | -- | 650 | --- | 110 | 13 | 43 | 27 |
| EA2 | 10/08/90 | 24.78 | 4.57 | 20.21 | NLPH | $\cdots$ | --- | --- | --- | --- | --- | -- |
| EA2 | 10/10/90 | 24.78 | --- | --- | - | <300 | 1,000 | --- | 290 | 26 | 32 | 15 |
| EA2 | 01/22/91 | 24.78 | 4.56 | 20.22 | NLPH | <50 | 300 | -- | 98 | 2.7 | 40 | 5.7 |
| EA2 | 04/03/91 | 24.78 | 1.66 | 23.12 | NLPH | 110 | 1,900 | --- | 300 | 9.8 | 120 | 52 |
| EA2 | 06/24/91 | 24.78 | --- | --- | --- | 210 | 330 | -- | 67 | 1.4 | 25 | 2.5 |
| EA2 | 06/28/91 | 24.78 | 6.93 | 17.85 | NLPH | --- | --- | -- | --- | -- | --- | -- |
| EA2 | 10/03/91 | 24.78 | 7.31 | 17.47 | NLPH | 270 | 320 | --- | 27 | 1.6 | 1.7 | 5.7 |
| EA2 | 01/23/92 | 24.78 | 4.69 | 20.09 | NLPH | 130 | 220 | --- | 13 | 0.7 | 2.6 | $<0.5$ |
| EA2 | 04/28/92 | 24.78 | 2.11 | 22.67 | NLPH | 830 | 120 | --- | 13 | $<0.5$ | 6.3 | 2.2 |
| EA2 | 07/23/92 | 24.78 | 4.34 | 20.44 | NLPH | 740 | 240 | --- | 43 | 1.4 | $<0.5$ | 5.8 |
| EA2 | 10/22/92 | 24.78 | 5.31 | 19.47 | NLPH | 120 | 62 | --- | 13 | <0.5 | 1.5 | $<0.5$ |
| EA2 | 01/25/93 | 24.78 | 1.00 | 23.78 | NLPH | 100 | 135 | --- | 11 | 1.3 | $<0.5$ | 12 |
| EA2 | 04/14/93 | 24.78 | 6.71 | 18.07 | NLPH | 130 | 170 | --- | 2.1 | $<0.5$ | $<0.5$ | $<0.5$ |
| EA2 | 07/02/93 | 24.78 | 7.10 | 17.68 | NLPH | 510 | $<50$ | --- | 3.9 | 0.5 | $<0.5$ | $<0.5$ |
| EA2 | 10/12/93 | 24.78 | 8.00 | 16.78 | NLPH | 370 | 78 | --- | 1.8 | $<0.5$ | $<0.5$ | 2.5 |
| EA2 | 01/13/94 | 24.78 | 6.82 | 17.96 | NLPH | 610 | 170 | --- | 10 | 1.0 | 1.8 | 1.5 |
| EA2 | 04/04/94 | 24.78 | 7.80 | 16.98 | NLPH | 260 | 66 | --- | 1.4 | 0.9 | $<0.5$ | $<0.5$ |
| EA2 | 07/14/94 | 24.78 | 5.84 | 18.94 | NLPH | 370 | 61 | --- | 12 | 0.7 | 1.5 | $<0.5$ |
| EA2 | 10/12/94 | 24.78 | 7.33 | 17.45 | NLPH | 220 | $<50$ | --- | <0.5 | $<0.5$ | $<0.5$ | $<0.5$ |
| EA2 | 01/09/95 | 24.78 | 3.70 | 21.08 | NLPH | 500b | 450 | --- | 10 | $<0.5$ | $<0.5$ | 0.8 |
| EA2 | 04/12/95 | 24.78 | 1.65 | 23.13 | NLPH | 230b | $<50$ | --- | 1.5 | $<0.5$ | $<0.5$ | $<0.5$ |
| EA2 | 07/10/95 | 24.78 | 6.35 | 18.43 | NLPH | 250b | <50 | 280 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| EA2 | 10/13/95 | 24.78 | 7.48 | 17.30 | NLPH | 510 | 210 | 120 | 0.91 | $<0.5$ | $<0.5$ | $<0.5$ |
| EA2 | 01/17/96 | 24.78 | 3.77 | 21.01 | NLPH | 270 | $<50$ | 220 | 3.9 | $<0.5$ | $<0.5$ | $<0.5$ |
| EA2 | 04/04/96 | 24.78 | 1.40 | 23.38 | NLPH | 230 | <50 | 92 | <0.5 | $<0.5$ | $<0.5$ | $<0.5$ |
| EA2 | 07/15/96 | 24.78 | 3.82 | 20.96 | NLPH | 340d | <125 | 970 | 2.4 | $<1.2$ | <1.2 | <1.2 |
| EA2 | 10/21/96 | 24.78 | 2.30 | 22.48 | NLPH | 240d | 63 i | 180 | 5.3 | <0.5 | $<0.5$ | $<0.5$ |
| EA2 | 01/07/97 | 24.78 | 2.20 | 22.58 | NLPH | 200d | 50 i | 120 | 5.2 | $<0.5$ | $<0.5$ | $<0.5$ |
| EA2 | 04/28/97 | 24.78 | 2.00 | 22.78 | NLPH | 170d | <50 | 120 | 1.7 | $<0.5$ | $<0.5$ | $<0.5$ |
| EA2 | 07/22/97 | 24.78 | 1.45 | 23.33 | NLPH | 200d | 75 | 110 | 11 | $<0.5$ | $<0.5$ | $<0.5$ |
| EA2 | 10/14/97 | 24.78 | 1.73 | 23.05 | NLPH | 220d | 300 | 110 | 19 | 0.59 | 1.8 | 0.92 |
| EA2 | 01/13/98 | 24.78 | 1.23 | 23.55 | NLPH | 190d | <50 | 230 | 1.9 | $<0.5$ | $<0.5$ | $<0.5$ |
| EA2 | 04/14/98 | 24.78 | 2.38 | 22.40 | NLPH | 160d | <50 | 320 | 0.72 | $<0.5$ | $<0.5$ | $<0.5$ |
| EA2 | 07/14/98 | 24.78 | 1.31 | 23.47 | NLPH | 210d | 61 | 330 | 2.8 | $<0.5$ | $<0.5$ | $<0.5$ |
| EA2 | 10/13/98 | 24.78 | 2.07 | 22.71 | NLPH | 170d | <50 | 260 | 4.1 | <0.5 | <0.5 | $<0.5$ |
| EA2 | 01/19/99 | 24.78 | 5.94 | 18.84 | NLPH | 350 | 360 | 640 | 5.1 | <1.2 | 1.3 | <1.2 |


| $\begin{gathered} \hline \text { Well } \\ \text { ID } \\ \hline \end{gathered}$ | $\begin{aligned} & \text { Sampling } \\ & \text { Date } \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { TOC } \\ & \text { (feet) } \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { DTW } \\ & \text { (feet) } \\ & \hline \end{aligned}$ | $\begin{gathered} \text { GW Elev. } \\ \text { (feet) } \end{gathered}$ | SUBJ | $\begin{aligned} & \text { TPHd } \\ & (\mu \mathrm{g} / \mathrm{L}) \\ & \hline \end{aligned}$ | $\begin{aligned} & \begin{array}{l} \mathrm{TPHg} \\ (\mu \mathrm{~g} / \mathrm{L}) \end{array} \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { MTBE } \\ & (\mu \mathrm{g} / \mathrm{L}) \\ & \hline \end{aligned}$ | $\begin{gathered} \mathrm{B} \\ (\mu \mathrm{~g} / \mathrm{L}) \\ \hline \end{gathered}$ | $\begin{gathered} \mathrm{T} \\ (\mu \mathrm{~g} / \mathrm{L}) \end{gathered}$ | $\begin{gathered} \mathrm{E} \\ (\mu \mathrm{~g} / \mathrm{L}) \end{gathered}$ | $\begin{gathered} \mathrm{X} \\ (\mu \mathrm{~g} / \mathrm{L}) \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| EA2 | 06/25/99 | 24.78 | 2.00 | 22.78 | NLPH | e | 109 | 432 | <1.0 | <1.0 | < 1.0 | <1.0 |
| EA2 | 09/21/99 | 24.78 | 2.15 | 22.63 | NLPH | 143d | 80.0 i | 366 | 1.70 | 6.00 | 1.50 | 9.30 |
| EA2 | 12/30/99 | 24.78 | 2.46 | 22.32 | NLPH | 210 | 68 | 1,100 | 2.1 | $<0.5$ | <0.5 | <0.5 |
| EA2 | 03/22/00 | 24.78 | 1.64 | 23.14 | NLPH | 55 | <50 | 2,500 | 3 | <0.5 | <0.5 | <0.5 |
| EA2 | April-2000 | 24.78 | Property transferred from Exxon Mobil to Valero. |  |  |  |  |  |  |  |  |  |
| EA2 | 06/15/00 | 24.78 | 1.75 | 23.03 | NLPH | <50 | $<50$ | 3,000 | $<0.5$ | <0.5 | $<0.5$ | <0.5 |
| EA2 | 09/27/00 | 24.78 | 1.92 | 22.86 | NLPH | 180 | 72 | 4,400 | 3.3 | $<0.5$ | $<0.5$ | 0.89 |
| EA2 | 12/28/00 | 24.78 | 3.53 | 21.25 | NLPH | 2201 | <50 | 5,400 | 0.88 | <0.5 | <0.5 | <0.5 |
| EA2 | 03/27/01 | 24.78 | 1.71 | 23.07 | NLPH | 2701 | <50 | 12,000 | 3.3 | <0.5 | <0.5 | <0.5 |
| EA2 | May-2001 | 24.78 | Property transferred from Valero to Petroleum Sales Inc. |  |  |  |  |  |  |  |  |  |
| EA2 | 06/26/01 | 24.78 | 3.01 | 21.77 | NLPH | <50 | 68 | 9,400 | 1.7 | $<0.5$ | <0.5 | $<0.5$ |
| EA2 | 09/25/01 | 24.78 | 3.58 | 21.20 | NLPH | 120 | 66 | 8,600 | 1.6 | <0.5 | <0.5 | <0.5 |
| EA2 | Nov-2001 | 27.43 | Well surveyed in compliance with $A B 2886$ requirements. |  |  |  |  |  |  |  |  |  |
| EA2 | 12/28/01 | 27.43 | 3.87 | 23.56 | NLPH | <100 | 1,780 | 3,130 | <1.00 | <1.00 | <1.00 | <1.00 |
| EA2 | 03/28/02 | 27.43 | 1.61 | 25.82 | NLPH | 59.0 | 1,980 | 3,150 | 6.00 | <0.50 | <0.50 | 1.20 |
| EA2 | 06/26/02 | 27.43 | 2.31 | 25.12 | NLPH | <50 | 1,160 | 2,040 | $<0.50$ | <0.50 | <0.50 | 2.10 |
| EA2 | 09/30/02 | 27.43 | 1.92 | 25.51 | NLPH | -- |  | --- | --- | --- | --- | --- |
| EA2 | 10/14/02 | 27.43 | 2.40 | 25.03 | NLPH | <50 | 5,910 | 8,500 | $<0.50$ | $<0.50$ | <0.50 | $<0.50$ |
| EA2 | 12/27/02 | 27.43 | 1.11 | 26.32 | NLPH | 71 | 3,130 | 4,200 | 7.10 | 0.60 | 0.70 | 2.40 |
| EA2 | 03/20/03 | 27.43 | 2.34 | 25.09 | NLPH | 112 | 3,010 | 2,280 | 5.60 | <0.50 | 0.90 | 1.20 |
| EA2 | 05/23/03 | 27.43 | 1.27 | 26.16 | NLPH | 155 | 1,360 | 1,190 | 1.50 | <0.50 | 1.50 | <0.50 |
| EA2 | 08/01/03 | 27.43 | 2.74 | 24.69 | NLPH | <50 | 552 | 426 | <0.50 | <0.50 | <0.50 | <0.50 |
| EA2 | 10/17/03 | 27.43 | 4.16 | 23.27 | NLPH | 65 | 491 | 484 | 0.90 | <0.50 | <0.50 | <0.50 |
| EA2 | 01/23/04 | 27.43 | 5.09 | 22.34 | NLPH | 79 | 483 | 337 | $<0.50$ | $<0.50$ | $<0.50$ | <0.50 |
| EA2 | 05/27/04 | 27.43 | 3.43 | 24.00 | NLPH | <50 | 125 | 84.4 | <0.50 | <0.50 | <0.50 | <0.50 |
| EA2 | 08/27/04 | 27.43 | 5.54 | 21.89 | NLPH | 72 | 85.7 | 46.8 | <0.50 | <0.50 | $<0.50$ | <0.50 |
| EA2 | 12/01/04 | 27.43 | 4.25 | 23.18 | NLPH | 65b | 226 | 167 | <0.50 | <0.50 | <0.50 | $<0.50$ |
| EA2 | 03/03/05 | 27.43 | 3.94 | 23.49 | NLPH | 68 b | 230 | 96.1 | <0.50 | <0.50 | 1.00 | 1.60 |
| EA2 | 06/23/05 | 27.43 | 4.94 | 22.49 | NLPH | 86b | <100 | 54.2 | <0.50 | <0.50 | <0.50 | <0.50 |
| EA2 | 09/22/05 | 27.43 | 3.32 | 24.11 | NLPH | 66.7 b | 61.2 | 65.2 | <0.500 | $<0.500$ | $<0.500$ | $<0.500$ |
| EA2 | 12/21/05 | 27.43 | 3.51 | 23.92 | NLPH | 67.0 b | 113 | 102 | 0.990 | $<0.500$ | $<0.500$ | <0.500 |
| EA2 | 03/22/06 | 27.43 | 4.76 | 22.67 | NLPH | 98 b | 100 | 64 | <0.50 | <0.50 | <0.50 | 0.56 |
| EA2 | 06/13/06 | 27.43 | 2.91 | 24.52 | NLPH | <47 | 130 | 66w | $<0.50 \mathrm{w}$ | <0.50w | <0.50w | <0.50w |
| EA2 | 09/22/06 | 27.43 | 3.57 | 23.86 | NLPH | 64b | 60.4 | 48.3 | <0.500 | <0.500 | <0.500 | $<0.500$ |
| EA2 | 12/21/06 | 27.43 | 4.58 | 22.85 | NLPH | 70 b | <50.0 | 56.9 | 0.580 | <0.500 | <0.500 | $<0.500$ |
| EA2 | 03/20/07 | 27.43 | 2.06 | 25.37 | NLPH | <50 | <50 | 2.6 | $<0.50$ | $<0.50$ | $<0.50$ | <0.50 |
| EA2 | 6/11/2007 | 27.43 | 5.49 | 21.94 | NLPH | <50 | <50 | 5.8 | <0.50 | <0.50 | $<0.50$ | $<0.50$ |
| EA2 | 08/29/07 | 27.43 | 6.03 | 21.40 | NLPH | 86 | <50 | 5.9 | <0.50 | $<0.50$ | $<0.50$ | <0.50 |
| EA2 | 12/11/07 | 27.43 | 5.36 | 22.07 | NLPH | <50 | <50 | 5.0 | <0.50 | $<0.50$ | $<0.50$ | <0.50 |
| EA2 | 03/19/08 | 27.43 | 3.19 | 24.24 | NLPH | <50 | <50 | 4.1 | $<0.50$ | $<0.50$ | $<0.50$ | $<0.50$ |
| EA2 | 06/10/08 | 27.43 | 3.21 | 24.22 | NLPH | $<50$ | $<50$ | 4.8 | <0.50 | <0.50 | <0.50 | $<0.50$ |
| EA3 | 12/21/87 | 24.13 | --- | --- | --- | --- | 60,000 | -- | 13,000 | 7,900 | 1,600 | 5,600 |
| EA3 | 06/29/88 | 24.13 | --- | --- | --- | --- | 30,000 | --- | 12,600 | 2,000 | <20 | 2,500 |
| EA3 | 11/18/88 | 24.13 | -- | --- | --- | -- | 26,000 | --- | 9,800 | 3,500 | 380 | 2,200 |
| EA3 | 01/09/89 | 24.13 | 4.07 | 20.06 | NLPH | --- | --- | -- | --- | --- | --- | --- |

## TABLE 2

CUMULATIVE GROUNDWATER SAMPLING DATA Valero Station 13781
930 Del Presidio Boulevard


| $\begin{gathered} \text { Well } \\ \text { ID } \\ \hline \end{gathered}$ | Sampling Date | $\begin{aligned} & \hline \text { TOC } \\ & \text { (feet) } \end{aligned}$ | $\begin{aligned} & \text { DTW } \\ & \text { (feet) } \end{aligned}$ | GW Elev. (feet) | SUBJ | TPHd ( $\mu \mathrm{g} / \mathrm{L}$ ) | TPHg ( $\mu \mathrm{g} / \mathrm{L}$ ) | $\begin{aligned} & \text { MTBE } \\ & (\mu \mathrm{g} / \mathrm{L}) \end{aligned}$ | $\begin{gathered} \mathrm{B} \\ (\mu \mathrm{~g} / \mathrm{L}) \end{gathered}$ | $\begin{gathered} \mathrm{T} \\ (\mu \mathrm{~g} / \mathrm{L}) \end{gathered}$ | $\begin{gathered} E \\ (\mu \mathrm{~g} / \mathrm{L}) \end{gathered}$ | $\begin{gathered} X \\ (\mu \mathrm{~g} / \mathrm{L}) \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| EA3 | 12/30/99 | 24.13 | 4.95 | 19.18 | NLPH | 3,200 | 3,900 | 88 | 6.1 | 2.2 | 6.9 | 3.3 |
| EA3 | 03/22/00 | 24.13 | 3.70 | 20.43 | NLPH | 680 | 1,500 | 130 | 200 | <2.5 | 10 | 3.1 |
| EA3 | April-2000 | 24.13 | Property transferred from Exxon Mobil to Valero. |  |  |  |  |  |  |  |  |  |
| EA3 | 06/15/00 | 24.13 | 4.12 | 20.01 | NLPH | 2,700 | 1,700 | 470 | 320 | <2.5 | 5.6 | 3.4 |
| EA3 | 09/27/00 | 24.13 | 4.53 | 19.60 | NLPH | 900 | 980 | 310 | 97 | 3.5 | 3.5 | 6.4 |
| EA3 | 12/28/00 | 24.13 | 4.15 | 19.98 | NLPH | 1,300 ${ }^{\text {l }}$ | 1,000 | 200 | 28 | $<0.5$ | 1.6 | 5.7 |
| EA3 | 03/27/01 | 24.13 | 4.07 | 20.06 | NLPH | 1,600 1 | 2,000 | 840 | 320 | <2.5 | <2.5 | 2.6 |
| EA3 | May-2001 | 24.13 | Property transferred from Valero to Petroleum Sales Inc. |  |  |  |  |  |  |  |  |  |
| EA3 | 06/26/01 | 24.13 | 4.95 | 19.18 | NLPH | 3,100 | 820 | 860 | 91 | 0.88 | 1.7 | 4.6 |
| EA3 | 09/25/01 | 24.13 | 4.80 | 19.33 | NLPH | 3,000 | 2,200 | 600 | 14 | 5.1 | 5.2 | 9.9 |
| EA3 | Nov-2001 | 26.83 | Well surveyed in compliance with $A B 2886$ requirements. |  |  |  |  |  |  |  |  |  |
| EA3 | 12/28/01 | 26.83 | 3.50 | 23.33 | NLPH | 1,300 | 2,200 | 432 | 109 | $<5.00$ | 7.00 | 14.0 |
| EA3 | 03/28/02 | 26.83 | 4.20 | 22.63 | NLPH | 397 | 2,360 | 1,500 | 496 | <10.0 | 12.0 | $<10.0$ |
| EA3 | 06/26/02 | 26.83 | 5.24 | 21.59 | NLPH | 925 | 1,510 | 1,980 | 112 | 1.10 | 1.00 | <50.0 |
| EA3 | 09/30/02 | 26.83 | 5.23 | 21.60 | NLPH | --- | --- | --- |  | , | --- | --- |
| EA3 | 10/14/02 | 26.83 | 5.33 | 21.50 | NLPH | 1,800 | 680 | 299 | 12.6 | $<0.50$ | $<0.50$ | <0.50 |
| EA3 | 12/27/02 | 26.83 | 3.02 | 23.81 | NLPH | 492 | 4,450 | 4,150 | 496 | 3.80 | 5.40 | 2.20 |
| EA3 | 03/20/03 | 26.83 | 4.13 | 22.70 | NLPH | 636 | 3,050 | 925 | 454 | 6.60 | 182 | 4.40 |
| EA3 | 05/23/03 | 26.83 | 4.16 | 22.67 | NLPH | 1,910 | 2,570 | 1,460 | 188 | 3.80 | 141 | 4.90 |
| EA3 | 08/01/03 | 26.83 | 4.72 | 22.11 | NL.PH | 1,520 | 1,430 | 296 | 41.2 | 1.40 | 8.50 | 1.00 |
| EA3 | 10/17/03 | 26.83 | 5.42 | 21.41 | NLPH | 857 | 1,140 | 316 | 15.1 | 1.20 | 2.60 | 2.60 |
| EA3 | 01/23/04 | 26.83 | 4.66 | 22.17 | NLPH | 937 | 2,270 | 1,320 | 320 | 4.00 | <2.50 | <2.50 |
| EA3 | 05/27/04 | 26.83 | 4.94 | 21.89 | NLPH | 351 | 1,080 | 690 | 16.7 | 1.50 | 2.50 | 1.00 |
| EA3 | 08/27/04 | 26.83 | 6.63 | 20.20 | NLPH | 335 | 143 | 118 | $<0.50$ | $<0.50$ | $<0.50$ | $<0.50$ |
| EA3 | 12/01/04 | 26.83 | 5.12 | 21.71 | NLPH | 239b | 630 | 92.7 | 17.9 | 0.60 | $<0.50$ | $<0.50$ |
| EA3 | 03/03/05 | 26.83 | 2.78 | 24.05 | NLPH | 911b | 971 | 93.7 | 35.4 | 2.10 | 6.70 | 2.70 |
| EA3 | 06/23/05 | 26.83 | 5.31 | 21.52 | NLPH | 2,490b | 1,330 | 83.6 | 26.6 | 1.80 | 4.20 | 1.20 |
| EA3 | 09/22/05 | 26.83 | 5.38 | 21.45 | NLPH | 2,270b | 1,840 | 26.7 | 2.75 | $<0.500$ | $<0.500$ | $<0.500$ |
| EA3 | 12/21/05 | 26.83 | 3.61 | 23.22 | NLPH | 1,530b | 656 | 114 | 28.3 | 0.700 | 0.890 | 0.510 |
| EA3 | 03/22/06 | 26.83 | 3.50 | 23.33 | NLPH | 1,000b | 930 | 120 | 99 | 2.9 | 4.0 | 2.1 |
| EA3 | 06/13/06 | 26.83 | 5.22 | 21.61 | NLPH | 1,600b | 680 | 38w | 6.3 w | <1.0w | 1.1w | <1.0w |
| EA3 | 09/22/06 | 26.83 | 5.70 | 21.13 | NLPH | 820b | 600 | 27.3 | 5.94 | $<0.500$ | $<0.500$ | $<0.500$ |
| EA3 | 12/21/06 | 26.83 | 4.71 | 22.12 | NLPH | 1,200b | 432 | 45.8 | 3.21 | $<0.500$ | 0.600 | 1.90 |
| EA3 | 03/20/07 | 26.83 | 4.79 | 22.04 | NLPH | <200 | 330 | 98 | 39 | 1.0 | 3.3 | 0.95 |
| EA3 | 6/11/2007 | 26.83 | 5.42 | 21.41 | NLPH | $<500$ | 520 | 59 | 24 | 0.8 | 0.5 | 0.53 |
| EA3 | 08/30/07 | 26.83 | 6.17 | 20.66 | Sheen | $<300$ | 250 | 7.4 | 2.0 | $<0.50$ | 0.50 | $<0.50$ |
| EA3 | 12/11/07 | 26.83 | 4.57 | 22.26 | NLPH | $<200$ | 160 | 1.2 | $<0.50$ | $<0.50$ | 0.50 | $<0.50$ |
| EA3 | 03/19/08 | 26.83 | 4.35 | 22.48 | NLPH | $<300$ | 240 | 5.9 | $<0.50$ | $<0.50$ | $<0.50$ | $<0.50$ |
| EA3 | 06/10/08 | 26.83 | 5.43 | 21.40 | NLPH | <600 | 320 | 13 | <0.50 | $<0.50$ | <0.50 | $<0.50$ |
| EA4 | 12/21/87 | 27.27 | --- | --- | --- | --- | 5 | --- | <0.5 | 0.5 | $<0.5$ | $<1$ |
| EA4 | 06/29/88 | 27.27 | - | --- | --- | --- | $<50$ | --- | 2.3 | 2.2 | $<0.2$ | $<0.2$ |
| EA4 | 11/18/88 | 27.27 | --- | --- | --- | --- | <50 | -- | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| EA4 | 01/09/89 | 27.27 | 9.01 | 18.26 | NLPH | --- | -- | --- | --- | --- | , | --- |
| EA4 | 01/17/89 | 27.27 | 8.78 | 18.49 | NLPH | $\cdots$ | --- | --- | --- | --- | --- | --- |
| EA4 | 02/15/89 | 27.27 | 8.46 | 18.81 | NLPH | - | <250 | --- | <0.2 | 0.4 | <0.2 | 0.4 |



| $\begin{gathered} \hline \text { Well } \\ \text { ID } \\ \hline \end{gathered}$ | $\begin{aligned} & \hline \text { Sampling } \\ & \text { Date } \end{aligned}$ | $\begin{aligned} & \hline \text { TOC } \\ & \text { (feet) } \\ & \hline \end{aligned}$ | $\begin{aligned} & \begin{array}{l} \text { DTW } \\ \text { (feet) } \end{array} \end{aligned}$ | GW Elev. (feet) | SUBJ | $\begin{aligned} & \text { TPHd } \\ & (\mu \mathrm{g} / \mathrm{L}) \end{aligned}$ | $\begin{aligned} & \hline \mathrm{TPHg} \\ & (\mu \mathrm{~g} / \mathrm{L}) \end{aligned}$ | $\begin{aligned} & \text { MTBE } \\ & (\mu \mathrm{g} / \mathrm{L}) \\ & \hline \end{aligned}$ | $\begin{gathered} \mathrm{B} \\ (\mu \mathrm{~g} / \mathrm{L}) \end{gathered}$ | $\begin{gathered} \mathrm{T} \\ (\mathrm{\mu g} / \mathrm{L}) \end{gathered}$ | $\begin{gathered} E \\ (\mu \mathrm{~g} / \mathrm{L}) \end{gathered}$ | $\begin{gathered} X \\ (\mu \mathrm{~g} / \mathrm{L}) \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| EA4 | April-2000 | 27.27 | Property transferred from Exxon Mobil to Valero. |  |  |  |  |  |  |  |  |  |
| EA4 | 06/15/00 | 27.27 | 1.69 | 25.58 | NLPH | <50 | <50 | <2 | <0.5 | $<0.5$ | $<0.5$ | $<0.5$ |
| EA4 | 09/27/00 | 27.27 | 1.56 | 25.71 | NLPH | 53 | <50 | <2 | $<0.5$ | <0.5 | $<0.5$ | 2.6 |
| EA4 | 12/28/00 | 27.27 | 1.83 | 25.44 | NLPH | 1601 | <50 | <2 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| EA4 | 03/27/01 | 27.27 | 1.52 | 25.75 | NLPH | $<501$ | <50 | <2 | <0.5 | <0.5 | <0.5 | <0.5 |
| EA4 | May-2001 | 27.27 | Property transferred from Valero to Petroleum Sales Inc. |  |  |  |  |  |  |  |  |  |
| EA4 | 06/26/01 | 27.27 | 2.70 | 24.57 | NLPH | <50 | $<50$ | $<2$ | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| EA4 | 09/25/01 | 27.27 | 1.75 | 25.52 | NLPH | $<50$ | <50 | <2 | 0.59 | <0.5 | <0.5 | $<0.5$ |
| EA4 | Nov-2001 | 29.90 | Well surveyed in compliance with AB 2886 requirements. |  |  |  |  |  |  |  |  |  |
| EA4 | 12/28/01 | 29.90 | 1.02 | 28.88 | NLPH | <100 | <100 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 |
| EA4 | 03/28/02 | 29.90 | 2.01 | 27.89 | NLPH | <50.0 | < 50.0 | 0.6 | 0.70 | <0.50 | <0.50 | <0.50 |
| EA4 | 06/26/02 | 29.90 | 2.10 | 27.80 | NLPH | $<50$ | <50 | 2.00 | <0.50 | <0.50 | <0.50 | <0.50 |
| EA4 | 09/30/02 | 29.90 | 1.81 | 28.09 | NLPH | --- | --- | --- | --- | --- | --- | --- |
| EA4 | 10/14/02 | 29.90 | 1.88 | 28.02 | NLPH | $<50$ | <50.0 | 3.60 | $<0.50$ | $<0.50$ | $<0.50$ | <0.50 |
| EA4 | 12/27/02 | 29.90 | 1.04 | 28.86 | NLPH | <50 | <50.0 | <0.50 | $<0.50$ | $<0.50$ | <0.50 | $<0.50$ |
| EA4 | 03/20/03 | 29.90 | 1.62 | 28.28 | NLPH | <50 | <50.0 | <0.50 | <0.50 | $<0.50$ | $<0.50$ | <0.50 |
| EA4 | 05/23/03 | 29.90 | 2.07 | 27.83 | NLPH | 634 | <50.0 | <0.50 | <0.50 | $<0.50$ | <0.50 | <0.50 |
| EA4 | 08/01/03 | 29.90 | 2.51 | 27.39 | NLPH | <50 | <50.0 | <0.50 | <0.50 | $<0.50$ | $<0.50$ | $<0.50$ |
| EA4 | 10/13/03 | 29.90 | 1.91 | 27.99 | NLPH | <50 | <50.0 | <0.50 | <0.50 | $<0.50$ | <0.50 | $<0.50$ |
| EA4 | 01/23/04 | 29.90 | 2.15 | 27.75 | NLPH | <50 | <50.0 | <0.50 | <0.50 | $<0.50$ | <0.50 | $<0.50$ |
| EA4 | 05/27/04 | 29.90 | 1.96 | 27.94 | NLPH | 57 | <50.0 | <0.50 | $<0.50$ | $<0.50$ | $<0.50$ | $<0.50$ |
| EA4 | 08/27/04 | 29.90 | 2.11 | 27.79 | NLPH | <50 | <50.0 | <0.50 | $<0.50$ | $<0.50$ | $<0.50$ | $<0.50$ |
| EA4 | 12/01/04 | 29.90 | 2.45 | 27.45 | NLPH | <50 | <50.0 | 1.60 | <0.50 | <0.50 | <0.50 | <0.50 |
| EA4 | 03/03/05 | 29.90 | 1.61 | 28.29 | NLPH | <50 | <50.0 | <0.50 | $<0.50$ | $<0.50$ | <0.50 | <0.50 |
| EA4 | 06/23/05 | 29.90 | 2.34 | 27.56 | NLPH | 57b | <100 | <0.50 | $<0.50$ | <0.50 | <0.50 | <0.50 |
| EA4 | 09/22/05 | 29.90 | 3.51 | 26.39 | NLPH | <57.1 | <50.0 | 1.48 | $<0.500$ | $<0.500$ | $<0.500$ | $<0.500$ |
| EA4 | 12/21/05 | 29.90 | 1.18 | 28.72 | NLPH | 144b | <50.0 | <0.500 | <0.500 | <0.500 | <0.500 | <0.500 |
| EA4 | 03/22/06 | 29.90 | 2.82 | 27.08 | NLPH | <47 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| EA4 | 06/13/06 | 29.90 | 2.74 | 27.16 | NLPH | $<47$ | <50 | <0.50w | <0.50w | <0.50w | <0.50w | 0.59w |
| EA4 | 09/22/06 | 29.90 | 4.20 | 25.70 | NLPH | <47 | <50.0 | 1.71 | <0.500 | $<0.500$ | <0.500 | <0.500 |
| EA4 | 12/21/06 | 29.90 | 2.02 | 27.88 | NLPH | $<47$ | <50.0 | <0.500 | $<0.500$ | <0.500 | <0.500 | <0.500 |
| EA4 | 03/20/07 | 29.90 | 2.31 | 27.59 | NLPH | <50 | <50 | <0.50 | $<0.50$ | <0.50 | <0.50 | <0.50 |
| EA4 | 6/11/2007 | 29.90 | 3.43 | 26.47 | NLPH | <50 | <50 | 1.00 | <0.50 | $<0.50$ | <0.50 | <0.50 |
| EA4 | 08/30/07 | 29.90 | 8.38 | 21.52 | NLPH | --- | -- | --- | --- | --- | --- | --- |
| EA4 | 12/11/07 | 29.90 | 1.89 | 28.01 | NLPH | --- | -- | --- | --- | --- | -- | --- |
| EA4 | 03/19/08 | 29.90 | 3.23 | 26.67 | NLPH | --- | -- | --- | --- | --- | --- | --- |
| EA4 | 06/10/08 | 29.90 | 3.23 | 26.67 | NLPH | --- | -- | --- | --- | --- | -- | --- |
| EA5 | 12/21/87 | --- | --- | --- | -- | $<0.1$ | <1 | --- | 580 | 60 | 60 | 310 |
| EA5 | 06/29/88 | --- | --- | --- | --- | --- | 1,800 | --- | 700 | 7.7 | <2 | 15 |
| EA5 | 11/18/88 | -- | --- | -- | -- | --- | 1,200 | --- | 320 | 12 | 17 | 12 |
| EA5 | 01/09/89 | 24.43 | 2.18 | 22.25 | NLPH | --- | -- | --- | --- | --- | --- | --- |
| EA5 | 01/17/89 | 24.43 | 2.26 | 22.17 | NLPH | --- | -- | --- | -- | --- | -- | --- |
| EA5 | 02/15/89 | 24.43 | 2.29 | 22.14 | NLPH | --- | 1,200 | --- | 420 | 42 | 6.0 | 42 |
| EA5 | 05/30/89 | 24.43 | 1.99 | 22.44 | NLPH | --- | - | --- | --- | --- | -- | --- |
| EA5 | 06/01/89 | 24.43 | --- | -- | --- | --- | 1,600 | -- | 880 | 150 | $<0.5$ | 11 |


| $\begin{gathered} \hline \text { Well } \\ \text { ID } \\ \hline \end{gathered}$ | Sampling Date | $\begin{aligned} & \hline \text { TOC } \\ & \text { (feet) } \\ & \hline \end{aligned}$ | $\begin{aligned} & \begin{array}{l} \text { DTW } \\ \text { (feet) } \end{array} \end{aligned}$ | GW Elev. (feet) | SUBJ | $\begin{aligned} & \hline \text { TPHd } \\ & (\mu \mathrm{g} / \mathrm{L}) \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \mathrm{TPHg} \\ & (\mu \mathrm{~g} / \mathrm{L}) \end{aligned}$ | $\begin{aligned} & \hline \text { MTBE } \\ & (\mu \mathrm{g} / \mathrm{L}) \\ & \hline \end{aligned}$ | $\begin{gathered} B \\ (\mathrm{\mu g} / \mathrm{L}) \end{gathered}$ | $\begin{gathered} \mathrm{T} \\ (\mathrm{~g} / \mathrm{L}) \\ \hline \end{gathered}$ | $\begin{gathered} E \\ (\mu \mathrm{~g} / \mathrm{L}) \end{gathered}$ | $\begin{gathered} X \\ (\mu \mathrm{~g} / \mathrm{L}) \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| EA5 | 08/10/89 | 24.43 | 3.32 | 21.11 | NLPH | --- | 1,900 | --- | 720 | 15 | 3.0 | 13 |
| EA5 | 01/16/90 | 24.43 | 2.59 | 21.84 | NLPH | --- | 710 | --- | 170 | 3.2 | 0.9 | 22 |
| EA5 | 04/12/90 | 24.43 | 3.42 | 21.01 | NLPH | --- | 1,100 | --- | 440 | 60 | 25 | 49 |
| EA5 | 07/10/90 | 24.43 | 2.84 | 21.59 | NLPH | --- | 1,400 | --- | 360 | 4.9 | 2.6 | 9.6 |
| EA5 | 10/08/90 | 24.43 | 4.13 | 20.30 | NLPH | --- | -- | --- | --- | --- | --- | --- |
| EA5 | 10/10/90 | 24.43 | --- | --- | --- | 5,700 | 1,100 | --- | 380 | 6.9 | $<2.5$ | 7.5 |
| EA5 | 01/22/91 | 24.43 | 3.97 | 20.46 | NLPH | 2,500 | 420 | --- | 80 | 4.1 | <0.5 | 0.8 |
| EA5 | 04/03/91 | 24.43 | 1.05 | 23.38 | NLPH | 3,700 | 230 | --- | 84 | 14 | <0.5 | 1.2 |
| EA5 | 06/24/91 | 24.43 | --- | -- | --- | 6,500 | 770 | -- | 130 | 9.4 | 5.3 | 12 |
| EA5 | 06/28/91 | 24.43 | 8.70 | 15.73 | NLPH | --- | --- | --- | --- | --- | --- | --- |
| EA5 | 10/03/91 | 24.43 | 7.40 | 17.03 | NLPH | 7,100 | 11,000 | --- | 1,300 | 2,000 | 280 | 1,600 |
| EA5 | 01/23/92 a | 23.94 | 3.79 | --- | NLPH | -- | -- | --- | --- | --- | --- | -- |
| EA5 | 04/28/92 | 23.94 | 1.07 | 22.87 | NLPH | 8,100 | 1,600 | --- | 290 | 22 | 83 | 290 |
| EA5 | 07/23/92 | 23.94 | 3.75 | 20.19 | NLPH | 5,500 | 3,700 | --- | 500 | 25 | 37 | 370 |
| EA5 | 10/22/92 | 23.94 | 3.99 | 19.95 | NLPH | r | 2,200 | --- | 300 | 7.3 | 3.0 | 17 |
| EA5 | 01/25/93 | 23.94 | 0.40 | 23.54 | NLPH | --- | --- | --- | --- | --- | --- | --- |
| EA5 | 04/13/93 | 23.94 | 10.10 | 13.84 | NLPH | --- | --- | --- | -- | --- | --- | --- |
| EA5 | 07/02/93 | 23.94 | 8.35 | 15.59 | NLPH | 3,100 | 3,800 | -- | 420 | 11 | 47 | 47 |
| EA5 | 10/12/93 | 23.94 | 7.25 | 16.69 | NLPH | -- | --- | --- | --- | --- | --- | --- |
| EA5 | 01/13/94 | 23.94 | 9.04 | 14.90 | NLPH | 7,900 | 1,100 | --- | 86 | 4.0 | 1.7 | 9.4 |
| EA5 | 04/04/94 | 23.94 | p | p | p | 4,100 | 910 | --. | 100 | 11.0 | 10 | 34 |
| EA5 | 07/14/94 | 23.94 | 8.20 | 15.74 | NLPH | 5,600 | 1,700 | -- | 190 | 25 | 18 | 31 |
| EA5 | 10/12/94 | 23.94 | 9.42 | 14.52 | NLPH | 1,400 | 730 | -- | <0.5 | <0.5 | <0.5 | $<0.5$ |
| EA5 | 01/09/95 | 23.94 | 2.70 | 21.24 | NLPH | <50 | 250 | --- | 13 | 2.4 | 4.1 | 4.0 |
| EA5 | 04/12/95 | 23.94 | 0.76 | 23.18 | NLPH | 1200b | <200 | --- | 10 | $<2.0$ | <2.0 | 6.0 |
| EA5 | 07/10/95 | 23.94 | 9.10 | 14.84 | NLPH | 2,500b | <1,000 | 3,800 | 39 | <10 | <10 | <10 |
| EA5 | 10/13/95 | 23.94 | 9.60 | 14.34 | NLPH | 2,000 | 680 | 2,600 | 130 | <10 | <10 | <10 |
| EA5 | 01/17/96 | 23.94 | 2.53 | 21.41 | NLPH | 1,500 | <5,000 | 26,000 | 160 | 68 | <50 | <50 |
| EA5 | 04/04/96 t | 23.94 | --- | --- | NLPH | 1,700 | <2,000 | 24,000 | 290 | 26 | 50 | 120 |
| EA5 | 07/15/96 | 23.94 | 8.48 | 15.46 | NLPH | 1,700d | <2,000 | 11,000 | 120 | $<20$ | $<20$ | <20 |
| EA5 | 10/21/96 | 23.94 | 1.17 | 22.77 | NLPH | 820d | <1,000 | 7,000 | 83 | <10 | <10 | <10 |
| EA5 | 01/07/97 | 23.94 | 2.22 | 21.72 | NLPH | 900 d | <500 | 7,900 | 29 | <5.0 | <5.0 | <5.0 |
| EA5 | 04/28/97 | 23.94 | 1.00 | 22.94 | NLPH | 420d | 110 | 3,000 | 1.5 | $<0.5$ | $<0.5$ | <0.5 |
| EA5 | 07/22/97 | 23.94 | $<1.0$ | --- | NLPH | 970d | <200 | 4,300/4,800k | 7.5 | <2.0 | <2.0 | 2.5 |
| EA5 | 10/14/97 | 23.94 | 0.55 | 23.39 | NLPH | 440d | <100 | 3,600 | 4.3 | <1.0 | <1.0 | <1.0 |
| EA5 | 01/13/98 | 23.94 | 0.16 | 23.78 | NLPH | 220 d | <50 | 570 | $<0.5$ | <0.5 | <0.5 | $<0.5$ |
| EA5 | 04/44/98 | 23.94 | 1.33 | 22.61 | NLPH | 210d | <50 | 320 | 2.2 | <0.5 | <0.5 | $<0.5$ |
| EA5 | 07/14/98 | 23.94 | 0.29 | 23.65 | NLPH | 320d | 991 | 2,200 | 8.6 | $<0.5$ | <0.5 | <0.5 |
| EA5 | 10/13/98 | 23.94 | 0.86 | 23.08 | NLPH | 290d | $86 i$ | 5,900 | 11 | <0.5 | <0.5 | <0.5 |
| EA5 | 01/19/99 | 23.94 | 6.11 | 17.83 | NLPH | 220 | 2,400 | 22,000 | 370 | 310 | 16 | 160 |
| EA5 | 06/24/99 | 23.94 | 0.91 | 23.03 | NLPH | 833 | 1,100 | 45,200 | 186 | 18.3 | <10 | 47.6 |
| EA5 | 09/21/99 | 23.94 | 0.98 | 22.96 | NLPH | 836d | 864i | 16,000 | 90.0 | 23.0 | 5.30 | 46.0 |
| EA5 | 12/30/99 | 23.94 | 1.63 | 22.31 | NLPH | 1,000 | 1,700 | 80,000 | 95 | 13 | <12 | 15 |
| EA5 | 03/22/00 | 23.94 | 0.63 | 23.31 | NLPH | 350 | 500 | 36,000/52,000k | 49 | 3.8 | <2.5 | <2.5 |
| EA5 | April-2000 | 23.94 | Property transferred from Exxon Mobil to Valero. |  |  |  |  |  |  |  |  |  |
| EA5 | 06/15/00 | 23.94 | 0.79 | 23.15 | NLPH | 300 | 300 | 27,000 | 16 | <2.5 | <2.5 | <2.5 |


| $\begin{gathered} \text { Well } \\ \text { ID } \\ \hline \end{gathered}$ | Sampling <br> Date | $\begin{aligned} & \text { TOC } \\ & \text { (feet) } \end{aligned}$ | $\begin{aligned} & \text { DTW } \\ & \text { (feet) } \end{aligned}$ | GW Elev. (feet) | SUBJ | TPHd ( $\mu \mathrm{g} / \mathrm{L}$ ) | TPHg ( $\mu \mathrm{g} / \mathrm{L}$ ) | MTBE <br> ( $\mu \mathrm{g} / \mathrm{L}$ ) | $\begin{gathered} B \\ (\mu \mathrm{~g} / \mathrm{L}) \end{gathered}$ | $\begin{gathered} \mathrm{T} \\ (\mu \mathrm{~g} / \mathrm{L}) \\ \hline \end{gathered}$ | $\begin{gathered} \mathrm{E} \\ (\mu \mathrm{~g} / \mathrm{L}) \end{gathered}$ | $\begin{gathered} X \\ (\mu \mathrm{~g} / \mathrm{L}) \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| EA5 | 09/27/00 | 23.94 | 0.82 | 23.12 | NLPH | 750 | 930 | 48,000 | 77 | 46 | <5 | $<5$ |
| EA5 | 12/27/00 | 23.94 | 7.22 | 16.72 | NLPH | 6301 | 980 | 31,000 | 110 | 31 | $<2.5$ | 58 |
| EA5 | 12/27/01 | 23.94 | 0.72 | 23.22 | NLPH | 4601 | 390 | 39,000 | 48 | 6 | <2.5 | 7.3 |
| EA5 | May-2001 | 23.94 | Property transferred from Valero to Petroleum Sales Inc. |  |  |  |  |  |  |  |  |  |
| EA5 | 06/24/01 | 23.94 | 4.00 | 19.94 | NLPH | 280 | <1200 | 96,000 | 100 | 12 | <12 | $<12$ |
| EA5 | 09/25/01 | 23.94 | 6.32 | 17.62 | NLPH | 490 | 1,300 | 68,000 | 380 | <12 | <12 | 18 |
| EA5 | Nov-2001 | 26.70 | Well surveyed in compliance with $A B 2886$ requirements. |  |  |  |  |  |  |  |  |  |
| EA5 | 12/28/01 | 26.70 | 5.68 | 21.02 | NLPH | 332 | 822,000 | 788,000 | 2,100 | 3,540 | <100 | 1,050 |
| EA5 | 03/28/02 | 26.70 | 0.95 | 25.75 | NLPH | 186 | 135,000 | 200,000 | 1,040 | 760 | 120 | 715 |
| EA5 | 06/26/02 | 26.70 | 1.95 | 24.75 | NLPH | 416 | 68,600 | 174,000 | 555 | 24.0 | 64.0 | 175 |
| EA5 | 09/30/02 | 26.70 | 1.15 | 25.55 | NLPH | --- | --- | --- | --- | --- | --- | -- |
| EA5 | 10/14/02 | 26.70 | -- | --- | NLPH | 263 | 14,200 | 21,600 | 85.4 | 2.10 | 2.30 | 5.20 |
| EA5 | 12/27/02 | 26.70 | --- | --- |  | --- | --- | --- | . | --- | . |  |
| EA5 | 03/20/03 | 26.70 | 1.22 | 25.48 | NLPH | 119 | 8,470 | 8,290 | 22.6 | $<0.50$ | 0.70 | $<0.50$ |
| EA5 | 05/23/03 | 26.70 | 6.29 | 20.41 | NLPH | 99 | 2,020 | 1,940 | 30.5 | 1.50 | $<0.50$ | 6.90 |
| EA5 | 08/01/03 | 26.70 | $\bigcirc$ | 0 | 0 | 229 | 814 | 188 | 61.4 | 3.90 | 0.70 | 6.40 |
| EA5 | 10/17/03 | 26.70 | 8.05 | 18.65 | NLPH | -- | $<50.0$ | 0.70 | $<0.50$ | $<0.50$ | $<0.50$ | $<0.50$ |
| EA5 | 01/23/04 | 26.70 | 8.02 | 18.68 | NLPH | 67 | 443 | 433 | 24.4 | $<0.50$ | 1.40 | 2.00 |
| EA5 | 05/27/04 | 26.70 | 0 | 0 | 0 | 254 | 141 | 54.3 | 4.60 | <0.50 | <0.50 | $<0.50$ |
| EA5 | 08/27/04 | 26.70 | 8.05 | 18.65 | NLPH | 347 | 443 | 360 | 3.30 | $<0.50$ | $<0.50$ | $<0.50$ |
| EA5 | 12/01/04 | 26.70 | 8.19 | 18.51 | NLPH | 328b | 384 | 367 | $<0.50$ | $<0.50$ | $<0.50$ | $<0.50$ |
| EA5 | 03/03/05 | 26.70 | 0 | $\bigcirc$ | 0 | 190b | 449 | 476 | 2.40 | $<0.50$ | $<0.50$ | $<0.50$ |
| EA5 | 06/23/05 | 26.70 | 9.14 | 17.56 | NLPH | 686b | 111 | 102 | <0.50 | $<0.50$ | $<0.50$ | $<0.50$ |
| EA5 | 09/22/05 s | 26.70 | 10.15 | 16.55 | NLPH | 508b | 243 | 185 | 3.76 | $<0.500$ | $<0.500$ | $<0.500$ |
| EA5 | 12/21/05 s | 26.70 | 7.58 | 19.12 | NLPH | <50.0 | $<50.0$ | $<0.500$ | $<0.500$ | $<0.500$ | $<0.500$ | $<0.500$ |
| EA5 | 03/22/06 s | 26.70 | 10.12 | 16.58 | NLPH | 110b | 6,800 | 570 | 820 | 420 | 23 | 370 |
| EA5 | 06/13/06 s | 26.70 | 3.36 | 23.34 | NLPH | 170b | 5,100 | 1,100w | 1,100w | 1,100w | 52w | 810w |
| EA5 | 09/22/06 s | 26.70 | 10.21 | 16.49 | NLPH | $<47$ | 295 | 85.7 | 19.6 | $<0.500$ | 3.27 | 10.1 |
| EA5 | 12/21/06 | 26.70 | 3.96 | 22.74 | NLPH | $<47$ | 68.7 | 45.4 | 13.4 | $<0.500$ | $<0.500$ | $<0.500$ |
| EA5 | 03/20/07 | 26.70 | NA | NA | NLPH | --- | $\cdots$ | --- | --- | --- | --- | --- |
| EA5 | 6/11/2007 | 26.70 | NA | NA | NLPH | $<50$ | 86 | 80 | 11 | 3 | $<0.50$ | $<0.50$ |
| EA5 | 08/30/07 | 26.70 | 10.13 | 16.57 | NLPH | 440 | <50 | 78 | $<0.50$ | $<0.50$ | $<0.50$ | $<0.50$ |
| EA5 | 12/11/07 | 26.70 | 9.36 | 17.34 | NLPH | $220 y$ | $<50$ | 100 | 7.8 | $<0.50$ | $<0.50$ | $<0.50$ |
| EA5 | 03/19/08 | 26.70 | 8.76 | 17.94 | NLPH | 200 | <50 | 1.2 | $<0.50$ | $<0.50$ | $<0.50$ | $<0.50$ |
| EA5 | 06/10/08 | 26.70 | 2.07 | 24.63 | NLPH | 320 | 420 | 120 | 22 | 1.9 | 0.78 | 2.0 |
| EA6 | 06/29/88 | 24.24 | --- | -- | -- | --- | 3,100 | --- | 775 | 28 | 75 | 655 |
| EA6 | 11/18/88 | 24.24 | --- | --- | -- | --- | 5,100 | --- | 810 | 430 | 170 | 540 |
| EA6 | 01/09/89 | 24.24 | 2.63 | 21.61 | 0.02 | --- | -- | --- | --- | --- | --- | --- |
| EA6 | 01/17/89 | 24.24 | 2.07 | 22.17 | 0.01 | --- | -- | --- | --- | -- | --- | --- |
| EA6 | 02/15/89 | 24.24 | 2.08 | 22.16 | NLPH | --- | 7,000 | --- | 1,800 | 100 | 560 | 3,600 |
| EA6 | 05/30/89 | 24.24 | 1.75 | 22.49 | NLPH | --- | --- | --- | --- | - | --- | , |
| EA6 | 06/01/89 | 24.24 | --- | --- | --- | --- | 4,400 | --- | 860 | 24 | 320 | 89 |
| EA6 | 08/10/89 | 24.24 | 3.10 | 21.14 | NLPH | --- | 2,500 | --- | 560 | 9.0 | 120 | 38 |
| EA6 | 01/16/90 | 24.24 | 2.40 | 21.84 | NLPH | -- | 8,100 | --- | 1,100 | 1,500 | 130 | 580 |
| EA6 | 04/12/90 | 24.24 | 3.22 | 21.02 | NLPH | --- | 7,400 | --- | 220 | 55 | 120 | 130 |


TABLE 2 CUMULATIVE GROUNDWATER SAMPLING DATA Valero Station 13781
930 Del Presidio Boulevard San Rafael, California
(Page 12 of 29)

| Well <br> ID | Sampling Date | $\begin{aligned} & \hline \text { TOC } \\ & \text { (feet) } \\ & \hline \end{aligned}$ | $\begin{aligned} & \begin{array}{l} \text { DTW } \\ \text { (feet) } \end{array} \end{aligned}$ | GW Elev. (feet) | SUBJ | $\begin{aligned} & \text { TPHd } \\ & (\mu \mathrm{g} / \mathrm{L}) \end{aligned}$ | $\begin{aligned} & \mathrm{TPHg} \\ & (\mu \mathrm{~g} / \mathrm{L}) \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { MTBE } \\ & (\mu \mathrm{g} / \mathrm{L}) \end{aligned}$ | $\begin{gathered} B \\ (\mu \mathrm{~g} / \mathrm{L}) \end{gathered}$ | $\begin{gathered} \mathrm{T} \\ (\mu \mathrm{~g} / \mathrm{L}) \end{gathered}$ | $\begin{gathered} \mathrm{E} \\ (\mu \mathrm{~g} / \mathrm{L}) \end{gathered}$ | $\begin{gathered} X \\ (\mu \mathrm{~g} / \mathrm{L}) \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| EA7 | 04/28/97 | 24.62 | 4.60 | 20.02 | NLPH | 890d | 5,100 | 3,300 | 2,400 | 45 | 25 | 60 |
| EA7 | 07/22/97 | 24.62 | 4.51 | 20.11 | NLPH | 2,600d | 15,000 | 2,700 | 6,500 | <100 | 150 | 130 |
| EA7 | 10/14/97 | 24.62 | 4.67 | 19.95 | NLPH | 580d | 2,600 | 2,000 | 270 | 14 | 35 | 46 |
| EA7 | 01/13/98 | 24.62 | 4.30 | 20.32 | NLPH | 860d | 3,400 | 3,000 | 800 | 21 | 35 | 24 |
| EA7 | 04/14/98 | 24.62 | 4.40 | 20.22 | NLPH | 1,600d | 15,000 | 2,500 | 5,400 | 110 | 240 | 190 |
| EA7 | 07/14/98 | 24.62 | 4.14 | 20.48 | NLPH | 2,000d | 12,000 | 3,600 | 7,300 | 190 | 300 | <100 |
| EA7 | 10/13/98 | 24.62 | 4.50 | 20.12 | NLPH | 490d | 2,900 | 1,400 | 380 | 20 | 26 | 38 |
| EA7 | 01/19/99 | 24.62 | 5.23 | 19.39 | NLPH | 270 | 2,300 | 1,400 | 120 | 18 | 8.9 | 22 |
| EA7 | 06/24/99 | 24.62 | 4.03 | 20.59 | NLPH | 2,460 | 9,450 | 3,080 | 3,750 | 123 | 121 | 209 |
| EA7 | 09/21/99 | 24.62 | 4.35 | 20.27 | NLPH | 584d | 7,020i | 18,900 | 450 | 89.6 | 120 | 202 |
| EA7 | 12/30/99 | 24.62 | 4.49 | 20.13 | NLPH | 990 | 2,000 | 26,000 | 150 | 7.3 | 20 | 21 |
| EA7 | 03/22/00 | 24.62 | 4.01 | 20.61 | NLPH | 630 | 10,000 | 16,000/21,000k | 3,600 | 80 | 85 | 94 |
| EA7 | April-2000 | 24.62 | Property transferred from Exxon Mobil to Valero. |  |  |  |  |  |  |  |  |  |
| EA7 | 06/15/00 | 24.62 | 3.93 | 20.69 | NLPH | 850 | 30,000 | 21,000 | 6,900 | 190 | 260 | 240 |
| EA7 | 09/27/00 | 24.62 | 4.22 | 20.40 | NLPH | 320 | 7,700 | 20,000 | 630 | 140 | 230 | 257 |
| EA7 | 12/28/00 | 24.62 | 4.62 | 20.00 | NLPH | 2301 | 2,000 | 21,000 | 250 | 15 | 11 | 23 |
| EA7 | 03/27/01 | 24.62 | 4.54 | 20.08 | NLPH | 7601 | 12,000 | 33,000 | 3,700 | 95 | 100 | 160 |
| EA7 | May-2001 | 24.62 | Property transferred from Valero to Petroleum Sales Inc. |  |  |  |  |  |  |  |  |  |
| EA7 | 06/26/01 | 24.62 | 4.52 | 20.10 | NLPH | 570 | 14,000 | 32,000 | 4,300 | 120 | 140 | 184 |
| EA7 | 09/25/01 | 24.62 | 5.37 | 19.25 | NLPH | 510 | 2,900 | 13,000 | 290 | 47 | 20 | 72 |
| EA7 | Nov-2001 | 27.43 | Well surveyed in compliance with AB 2886 requirements. |  |  |  |  |  |  |  |  |  |
| EA7 | 12/28/01 | 27.43 | 4.75 | 22.68 | NLPH | 459 | 5,340 | 9,820 | 205 | <50.0 | <50.0 | <50.0 |
| EA7 | 03/28/02 | 27.43 | 4.00 | 23.43 | NLPH | 270 | 53,400 | 67,700 | 585 | 50.0 | 75.0 | 75.0 |
| EA7 | 06/26/02 | 27.43 | 4.46 | 22.97 | NLPH | 511 | 25,300 | 65,500 | 1,600 | 79.0 | 156 | 158 |
| EA7 | 09/30/02 | 27.43 | 4.17 | 23.26 | NLPH | -- | --- | --- | --- | --- | --- | -- |
| EA7 | 10/14/02 | 27.43 | 4.24 | 23.19 | NLPH | 338 | 2,630 | 785 | 139 | 7.40 | 19.0 | 35.6 |
| EA7 | 12/27/02 | 27.43 | 3.45 | 23.98 | NLPH | 140 | 2,430 | 666 | 101 | 10.2 | 9.30 | 42.1 |
| EA7 | 03/20/03 | 27.43 | 4.22 | 23.21 | NLPH | 151 | 5,120 | 820 | 281 | 18.1 | 23.9 | 41.6 |
| EA7 | 05/23/03 | 27.43 | 4.11 | 23.32 | NLPH | 490 | 11,100 | 26,000 | 5,100 | 99.8 | 92.0 | 88.7 |
| EA7 | 08/01/03 | 27.43 | 4.35 | 23.08 | NLPH | 882 | 52,800 | 27,600 | 5,350 | 146 | 152 | 156 |
| EA7 | 10/17/03 | 27.43 | 5.56 | 21.87 | NLPH | 251 | 3,000 | 111 | 250 | 10.5 | 11.9 | 55.3 |
| EA7 | 01/23/04 | 27.43 | 4.64 | 22.79 | NLPH | 137 | 1,620 | 94.3 | 121 | 4.50 | 3.70 | 9.80 |
| EA7 | 05/27/04 | 27.43 | 4.37 | 23.06 | NLPH | 305 | 5,630 | 1,510 | 534 | 15.7 | 11.7 | 28.2 |
| EA7 | 08/27/04 | 27.43 | 4.42 | 23.01 | NLPH | 642 | 7,200 | 152 | 825 | 109 | 397 | 253 |
| EA7 | 12/01/04 | 27.43 | 4.92 | 22.51 | NLPH | 140b | 1,890 | 47.1 | 88.3 | 6.50 | 7.60 | 32.0 |
| EA7 | 03/03/05 | 27.43 | 4.58 | 22.85 | NLPH | 258b | 1,130 | 43.0 | 54.5 | 1.90 | 2.80 | 4.10 |
| EA7 | 06/23/05 | 27.43 | 5.18 | 22.25 | NLPH | 245b | 1,250 | 59.5 | 23.1 | 4.00 | 2.10 | 12.1 |
| EA7 | 09/22/05 | 27.43 | 4.88 | 22.55 | NLPH | 410b | 3,110 | 52.4 | 197 | 19.0 | 78.2 | 47.0 |
| EA7 | 12/21/05 | 27.43 | 4.72 | 22.71 | NLPH | 341 b | 1,360 | 23.8 | 110 | 5.96 | 3.26 | 8.74 |
| EA7 | 03/22/06 | 27.43 | 5.03 | 22.40 | NLPH | 71b | 880 | 26 | 66 | 2.8 | 5.6 | 7.7 |
| EA7 | 06/13/06 | 27.43 | 5.35 | 22.08 | NLPH | 130b | 1,800 | 310w | 280 | 13w | 1.8w | 6.4 w |
| EA7 | 09/22/06 | 27.43 | 4.90 | 22.53 | NLPH | 240b | 1,470 | 48.7 | 89.5 | 10.1 | 5.24 | 29.4 |
| EA7 | 12/21/06 | 27.43 | 4.56 | 22.87 | NLPH | 160b | 1,370 | 26.2 | 53.8 | 5.92 | 1.48 | 9.05 |
| EA7 | 03/20/07 | 27.43 | 3.70 | 23.73 | NLPH | <500 | 2,100 | 420 | 280 | 18 | 30 | 22 |
| EA7 | 6/11/2007 | 27.43 | 4.96 | 22.47 | NLPH | $<100$ | 2,500 | 180 | 270 | 19 | 21 | 27 |
| EA7 | 08/30/07 | 27.43 | 5.85 | 21.58 | NLPH | <600 | 4,500 | 30 | 160 | 25 | 88 | 65 |


Valero Station 13781

| $\begin{gathered} \hline \text { Well } \\ \text { ID } \end{gathered}$ | $\begin{aligned} & \hline \text { Sampling } \\ & \text { Date } \end{aligned}$ | $\begin{aligned} & \hline \text { TOC } \\ & \text { (feet) } \end{aligned}$ | $\begin{aligned} & \hline \text { DTW } \\ & \text { (feet) } \end{aligned}$ | $\begin{gathered} \hline \text { GW Elev. } \\ \text { (feet) } \end{gathered}$ | SUBJ | $\begin{aligned} & \hline \text { TPHd } \\ & (\mu \mathrm{g} / \mathrm{L}) \\ & \hline \end{aligned}$ | $\begin{aligned} & \mathrm{TPHg} \\ & (\mu \mathrm{~g} / \mathrm{L}) \\ & \hline \end{aligned}$ | $\begin{aligned} & \begin{array}{l} \text { MTBE } \\ (\mu \mathrm{g} / \mathrm{L}) \end{array} \\ & \hline \end{aligned}$ | $\begin{gathered} \mathrm{B} \\ (\mu \mathrm{~g} / \mathrm{L}) \end{gathered}$ | $\begin{gathered} \top \\ (\mu \mathrm{g} / \mathrm{L}) \end{gathered}$ | $\begin{gathered} \mathrm{E} \\ (\mu \mathrm{~g} / \mathrm{L}) \end{gathered}$ | $\begin{gathered} \mathrm{x} \\ (\mu \mathrm{~g} / \mathrm{L}) \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| EA8 | 04/14/98 | 25.05 | 3.36 | 21.69 | NLPH | 520d | 650 | 23 | 59 | 4.1 | 3.5 | 12 |
| EA8 | 07/14/98 ${ }^{\text {j }}$ | 25.05 | --- | --- | --- | --- | --- | --- | --- | --- | --- | -- |
| EA8 | 10/13/98 j | 25.05 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| EA8 | 01/19/99 ${ }^{\text {j }}$ | 25.05 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| EA8 | 06/25/99 | 25.05 | 5.66 | 19.39 | NLPH | e | 4,270 | $<20$ | 1,240 | 137 | 15.7 | 465 |
| EA8 | 09/21/99 | 25.05 | 5.96 | 19.09 | NLPH | 1,430d | 1,620i | <25 | 409 | 25.0 | 8.00 | 130 |
| EA8 | 12/30/99 | 25.05 | 5.84 | 19.21 | NLPH | 890 | 2,300 | <2 | 490 | 40 | 3.9 | 270 |
| EA8 | 03/22/00 | 25.05 | 3.25 | 21.80 | NLPH | 140 | 910 | 3.7 | 250 | 7.1 | 2.2 | 28 |
| EA8 | April-2000 | 25.05 | Property transferred from Exxon Mobil to Valero. |  |  |  |  |  |  |  |  |  |
| EA8 | 06/15/00 | 25.05 | 4.93 | 20.12 | NLPH | 490 | 3,900 | <2 | 650 | 38 | 7.4 | 214 |
| EA8 | 09/27/00 | 25.05 | 5.63 | 19.42 | NLPH | 600 | 1,400 | 2.9 | 370 | 25 | 4.5 | 121 |
| EA8 | 12/28/00 | 25.05 | 4.34 | 20.71 | NLPH | 5801 | 610 | <2 | 190 | 3.8 | 3.8 | 30 |
| EA8 | 03/27/01 | 25.05 | 3.93 | 21.12 | NLPH | $3001, \mathrm{~m}$ | 910 | 2.2 | 260 | <0.5 | 3.3 | 5.3 |
| EA8 | May-2001 | 25.05 | Property transferred from Valero to Petroleum Sales Inc. |  |  |  |  |  |  |  |  |  |
| EA8 | 06/26/01 | 25.05 | 5.67 | 19.38 | NLPH | 140 | 7,500 | <2 | 860 | 52 | 14 | 125 |
| EA8 | 09/25/01 | 25.05 | 8.11 | 16.94 | NLPH | 240 | 520 | <2 | 110 | $<0.5$ | 1.7 | 1.7 |
| EA8 | Nov-2001 | 27.68 | Well surveyed in compliance with $A B 2886$ requirements. |  |  |  |  |  |  |  |  |  |
| EA8 | 12/28/01 | 27.68 | 2.90 | 24.78 | NLPH | 201 | 984 | 1.10 | 70.3 | 9.20 | 38.0 | 128 |
| EA8 | 03/28/02 | 27.68 | 3.11 | 24.57 | NLPH | 73.0 | 916 | $<0.5$ | 113 | 9.00 | 38.8 | 95.0 |
| EA8 | 06/26/02 | 27.68 | 5.84 | 21.84 | NLPH | < 50 | 381 | 0.80 | 126 | 3.20 | 1.00 | 4.80 |
| EA8 | 09/30/02 | 27.68 | 6.32 | 21.36 | NLPH | -- | --- | --- | --- | --- | --- | --- |
| EA8 | 10/14/02 | 27.68 | 6.17 | 21.51 | NLPH | 234 | 186 | $<0.50$ | 16.4 | $<0.50$ | $<0.50$ | $<0.50$ |
| EA8 | 12/27/02 | 27.68 | 2.09 | 25.59 | NLPH | 131 | 869 | 1.60 | 76.8 | 8.50 | 67.3 | 183 |
| EA8 | 03/20/03 | 27.68 | 3.06 | 24.62 | NLPH | < 50 | 138 | $<0.50$ | 39.4 | 0.60 | 2.00 | 2.80 |
| EA8 | 05/23/03 | 27.68 | 3.82 | 23.86 | NLPH | 1,080 | 77.1 | <0.50 | 36.0 | 0.60 | 0.80 | 5.70 |
| EA8 | 08/01/03 | 27.68 | 5.39 | 22.29 | NLPH | <50 | 213 | 0.60 | 27.9 | 0.70 | $<0.50$ | <0.50 |
| EA8 | 10/17/03 | 27.68 | 6.24 | 21.44 | NLPH | 71 | 169 | 2.20 | 9.80 | <0.50 | 0.70 | 1.10 |
| EA8 | 01/23/04 | 27.68 | 4.15 | 23.53 | NLPH | <50 | <50.0 | $<0.50$ | 5.90 | <0.50 | $<0.50$ | $<0.50$ |
| EA8 | 05/27/04 | 27.68 | 4.73 | 22.95 | NLPH | 65 | 157 | <0.50 | 16.9 | 0.70 | <0.50 | 1.20 |
| EA8 | 08/27/04 | 27.68 | 7.54 | 20.14 | NLPH | 180 | 87.6 | $<0.50$ | 7.20 | $<0.50$ | $<0.50$ | $<0.50$ |
| EA8 | 12/01/04 | 27.68 | 5.12 | 22.56 | NLPH | 85b | 61.7 | $<0.50$ | 5.80 | <0.50 | <0.50 | $<0.50$ |
| EA8 | 03/03/05 | 27.68 | 2.22 | 25.46 | NLPH | 117b | 122 | $<0.50$ | 14.6 | 1.40 | 8.50 | 15.8 |
| EA8 | 06/23/05 | 27.68 | 5.67 | 22.01 | NLPH | 256b | <100 | $<0.50$ | 10.4 | $<0.50$ | <0.50 | 1.20 |
| EA8 | 09/22/05 | 27.68 | 5.96 | 21.72 | NLPH | 111b | 51.1 | $<0.500$ | 6.54 | $<0.500$ | $<0.500$ | <0.500 |
| EA8 | 12/21/05 | 27.68 | 1.21 | 26.47 | NLPH | 465b | 124 | $<0.500$ | 15.3 | 1.70 | 7.46 | 4.35 |
| EA8 | 03/22/06 | 27.68 | 3.05 | 24.63 | NLPH | 48b | $<50$ | $<0.50$ | 2.5 | $<0.50$ | <0.50 | 0.69 |
| EA8 | 06/13/06 | 27.68 | 5.65 | 22.03 | NLPH | <47 | <50 | <0.50w | 2.3 | $<0.50$ | $<0.50$ | 0.54 |
| EA8 | 09/22/06 | 27.68 | 6.80 | 20.88 | NLPH | <47 | <50.0 | 0.820 | 1.47 | $<0.500$ | $<0.500$ | <0.500 |
| EA8 | 12/21/06 | 27.68 | 4.60 | 23.08 | NLPH | $<47$ | 91.2 | 0.650 | 11.3 | $<0.500$ | $<0.500$ | 0.590 |
| EA8 | 03/20/07 | 27.68 | 4.46 | 23.22 | NLPH | < 50 | <50 | $<0.50$ | 1.7 | <0.50 | <0.50 | <0.50 |
| EA8 | 6/11/2007 | 27.68 | 5.96 | 21.72 | NLPH | <50 | $<50$ | 1.00 | $<0.50$ | $<0.50$ | $<0.50$ | <0.50 |
| EA8 | 08/30/07 | 27.68 | NA | --- | --- | --- | -- | --- | -- | - | --- | --- |
| EA8 | 12/11/07 | 27.68 | 5.05 | 22.63 | NLPH | 78y | 96 | $<0.50$ | 12 | $<0.50$ | $<0.50$ | $<0.50$ |
| EA8 | 03/19/08 | 27.68 | 4.23 | 23.45 | NLPH | 63 | <50 | $<0.50$ | 1.0 | <0.50 | $<0.50$ | <0.50 |
| EA8 | 06/10/08 | 27.68 | 6.15 | 21.53 | NLPH | 130 | 120 | <0.50 | 22 | <0.50 | <0.50 | <0.50 |

Valero Station 13781
930 Del Presidio Bouleva
CUMULATIVE GROUNDWATER SAMPLING DATA

| Well ID | Sampling <br> Date | $\begin{aligned} & \text { TOC } \\ & \text { (feet) } \end{aligned}$ | DTW (feet) | GW Elev. (feet) | SUBJ | TPHd ( $\mu \mathrm{g} / \mathrm{L}$ ) | TPHg ( $\mu \mathrm{g} / \mathrm{L}$ ) | $\begin{aligned} & \text { MTBE } \\ & (\mu \mathrm{g} / \mathrm{L}) \end{aligned}$ | $\begin{gathered} \mathrm{B} \\ (\mu \mathrm{~g} / \mathrm{L}) \end{gathered}$ | $\begin{gathered} \mathrm{T} \\ (\mu \mathrm{~g} / \mathrm{L}) \end{gathered}$ | $\begin{gathered} \mathrm{E} \\ (\mu \mathrm{~g} / \mathrm{L}) \end{gathered}$ | $\begin{gathered} X \\ (\mu \mathrm{~g} / \mathrm{L}) \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| EA9 | 06/24/91 | --- | -- | --- | --- | 300 | <50 | --- | 1.1 | <0.5 | <0.5 | <1.5 |
| EA9 | 06/28/91 | 25.36 | 6.10 | 19.26 | NLPH | --- | --- | --- | --- | --- | --- | -- |
| EA9 | 10/03/91 | 25.36 | 5.61 | 19.75 | NLPH | 170 | $<50$ | -- | <0.5 | $<0.5$ | $<0.5$ | $<0.5$ |
| EA9 | 01/23/91 | 25.36 | 5.47 | 19.89 | NLPH | 430 | <50 | -- | 0.7 | $<0.5$ | $<0.5$ | $<0.5$ |
| EA9 | 04/28/92 | 25.36 | 5.29 | 20.07 | NLPH | 470 | 1,000 | -- | 69 | 3.6 | 3.3 | 4.4 |
| EA9 | 07/23/92 | 25.36 | 5.36 | 20.00 | NLPH | 260 | 260 | --- | 5.5 | 2.4 | $<0.5$ | 1.3 |
| EA9 | 10/22/92 | 25.36 | 5.84 | 19.52 | NLPH | 130 | <50 | -- | <0.5 | <0.5 | $<0.5$ | $<0.5$ |
| EA9 | 01/25/93 | 25.36 | 5.21 | 20.15 | NLPH | 320 | 1,100 | -- | 140 | 4.6 | 2.4 | 5.6 |
| EA9 | 04/13/93 | 25.36 | 5.27 | 20.09 | NLPH | 470 | 3,900 | --- | 260 | 13 | 15 | 13 |
| EA9 | 07/02/93 | 25.36 | 5.43 | 19.93 | NLPH | 310 | 2,100 | -- | 6.0 | 0.7 | $<0.5$ | 0.7 |
| EA9 | 10/12/93 | 25.36 | 5.60 | 19.76 | NLPH | 370 | <50 | --- | <0.5 | $<0.5$ | $<0.5$ | <0.5 |
| EA9 | 01/13/94 | 25.36 | 5.36 | 20.00 | NLPH | 700 | 540 | --- | 44 | 2.5 | $<0.5$ | 1.3 |
| EA9 | 04/04/94 | 25.36 | 5.42 | 19.94 | NLPH | --- | 1,200 | --- | 91 | 3.9 | 4.3 | 5.2 |
| EA9 | 07/14/94 | 25.36 | 5.50 | 19.86 | NLPH | 560 | 2,800 | --- | 6.2 | 3.5 | 0.6 | 1.2 |
| EA9 | 10/12/94 | 25.36 | 5.60 | 19.76 | NLPH | 150 | 2,700 | --- | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| EA9 | 01/09/95 | 25.36 | 5.38 | 19.98 | NLPH | 1,400b | 3,800 | --- | 96 | 5.6 | 2.2 | 5.1 |
| EA9 | 04/12/95 | 25.36 | 5.33 | 20.03 | NLPH | 820b | 1,200 | -- | 120 | 4.0 | 9.9 | 7.1 |
| EA9 | 07/10/95 | 25.36 | 5.55 | 19.81 | NLPH | 540 b | <1,000 | 3,700 | <10 | <10 | <10 | $<10$ |
| EA9 | 10/13/95 | 25.36 | 5.55 | 19.81 | NLPH | 280 | <50 | 3,500 | 15 | $<0.5$ | $<0.5$ | $<0.5$ |
| EA9 | 01/17/96 | 25.36 | 5.41 | 19.95 | NLPH | --- | --- | --- |  | --- |  | . |
| EA9 | 04/04/96 | 25.36 | 5.30 | 20.06 | NLPH | --- | --- | --- | --- | --- | -- | --- |
| EAg | 07/15/96 | 25.36 | 5.41 | 19.95 | NLPH | --- | - | - | --- | --- | --- | --- |
| EA9 | 10/21/96 | 25.36 | 5.58 | 19.78 | NLPH | --- | --- | -- | -- | --- | --- | - |
| EA9 | 01/07/97 | 25.36 | 5.40 | 19.96 | NLPH | 340d | 520 | 1,200 | 26 | $<2.5$ | $<2.5$ | 2.6 |
| EA9 | 04/28/97 | 25.36 | 5.52 | 19.84 | NLPH | --- | --- | --- | --- | --- | --- | --- |
| EA9 | 07/22/97 | 25.36 | 5.53 | 19.83 | NLPH | --- | --- | --- | --- | --- | --- | --- |
| EA9 | 10/14/97 | 25.36 | 5.57 | 19.79 | NLPH | --- | --- | --- | --- | --- | --- | --- |
| EA9 | 01/13/98 | 25.36 | 5.36 | 20.00 | NLPH | --- | --- | --- | --- | --- | --- | --- |
| EA9 | 04/14/98 | 25.36 | 5.41 | 19.95 | NLPH | --- | --- | --- | -- | --- | --- | -- |
| EA9 | 07/14/98 | 25.36 | 5.53 | 19.83 | NLPH | 400d | 2,700 | 1,300 | 41 | $<5.0$ | 6.8 | 12 |
| EA9 | 10/13/98 | 25.36 | 5.65 | 19.71 | NLPH | 210d | 220 | 800 | $<0.5$ | 0.77 | $<0.5$ | $<0.5$ |
| EA9 | 01/19/99 | 25.36 | 5.00 | 20.36 | NLPH | 140 | 90 | 630 | 1.8 | 0.59 | $<0.5$ | <0.5 |
| EA9 | 06/24/99 | 25.36 | 5.43 | 19.93 | NLPH | 641 | 1,770 | 1,150 | 45.7 | 6.45 | <2.5 | 11.3 |
| EA9 | 09/21/99 | 25.36 | 5.51 | 19.85 | NLPH | 506d | 1,550i | 1,020 | 63.6 | 4.20 | 1.38 | 7.20 |
| EA9 | 12/30/99 | 25.36 | 5.67 | 19.69 | NLPH | 170 | 330 | 720 | 8.8 | 0.78 | $<0.5$ | 0.92 |
| EA9 | 03/22/00 | 25.36 | 2.12 | 23.24 | NLPH | 110 | 1,600 | 920 | 69 | 5.9 | 2.6 | 8.5 |
| EA9 | April-2000 | 25.36 | Property transferred from Exxon Mobil to Valero. |  |  |  |  |  |  |  |  |  |
| EA9 | 06/15/00 | 25.36 | 5.50 | 19.86 | NLPH | 180 | 860 | 1,100 | 38 | 4.4 | $<2.5$ | 6.1 |
| EA9 | 09/27/00 | 25.36 | 5.53 | 19.83 | NLPH | 140 | 1,300 | 970 | 37 | 4 | 2.4 | 7.4 |
| EA9 | 12/28/00 | 25.36 | 5.47 | 19.89 | NLPH | 2101 | 960 | 550 | 40 | 2.9 | 1.9 | 5.77 |
| EA9 | 03/27/01 | 25.36 | 5.30 | 20.06 | NLPH | I,m | 1,200 | 1,100 | 28 | 3.2 | 2.1 | 8.2 |
| EA9 | May-2001 | 25.36 | Property transferred from Valero to Petroleum Sales Inc. |  |  |  |  |  |  |  |  |  |
| EA9 | 06/26/01 | 25.36 | 5.94 | 19.42 | NLPH | 82 | 1,300 | 1,700 | 17 | 1.9 | $<0.5$ | 3.76 |
| EA9 | 09/25/01 | 25.36 | 5.50 | 19.86 | NLPH | 180 | 670 | 1,500 | 14 | 7.2 | 5.5 | 16.9 |
| EA9 | Nov-2001 | 27.96 | Well surveyed in compliance with AB 2886 requirements. |  |  |  |  |  |  |  |  |  |
| EA9 | 12/28/01 | 27.96 | 5.40 | 22.56 | NLPH | 254 | 1,480 | 1,210 | 17.5 | 2.60 | 2.40 | 5.10 |


| $\begin{gathered} \hline \text { Well } \\ \text { ID } \end{gathered}$ | Sampling <br> Date | $\begin{aligned} & \hline \text { TOC } \\ & \text { (feet) } \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { DTW } \\ & \text { (feet) } \end{aligned}$ | $\begin{gathered} \hline \text { GW Elev. } \\ \text { (feet) } \\ \hline \end{gathered}$ | SUBJ | $\begin{aligned} & \hline \text { TPHd } \\ & (\mu \mathrm{g} / \mathrm{L}) \\ & \hline \end{aligned}$ | $\begin{gathered} \begin{array}{c} \mathrm{TPHg} \\ (\mu \mathrm{~g} / \mathrm{L}) \end{array} \\ \hline \end{gathered}$ | $\begin{aligned} & \hline \text { MTBE } \\ & (\mu \mathrm{g} / \mathrm{L}) \\ & \hline \end{aligned}$ | $\begin{gathered} \mathrm{B} \\ (\mu \mathrm{~g} / \mathrm{L}) \end{gathered}$ | $\begin{gathered} \mathrm{T} \\ (\mu \mathrm{~g} / \mathrm{L}) \end{gathered}$ | $\begin{gathered} \mathrm{E} \\ (\mu \mathrm{~g} / \mathrm{L}) \end{gathered}$ | $\begin{gathered} \mathrm{X} \\ (\mathrm{\mu g} / \mathrm{L}) \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| EA9 | 03/28/02 | 27.96 | 5.40 | 22.56 | NLPH | 137 | 1,880 | 2,500 | 14.0 | 2.00 | 1.60 | 4.50 |
| EA9 | 06/26/02 | 27.96 | 5.53 | 22.43 | NLPH | 105 | 2,000 | 1,560 | <100 | <100 | <100 | <100 |
| EA9 | 09/30/02 | 27.96 | 5.58 | 22.38 | NLPH | --- | --- | -- | -- | -- | --- | -- |
| EA9 | 10/14/02 | 27.96 | 5.56 | 22.40 | NLPH | 73 | 536 | 326 | 2.20 | <0.50 | 1.80 | 6.10 |
| EA9 | 12/27/02 | 27.96 | 5.36 | 22.60 | NLPH | 120 | 1,340 | 870 | 9.80 | 2.00 | 1.40 | 3.90 |
| EA9 | 03/20/03 | 27.96 | 5.38 | 22.58 | NLPH | NS | 2,190 | 452 | 19.6 | 2.60 | 2.00 | 4.20 |
| EA9 | 05/23/03 | 27.96 | 5.45 | 22.51 | NLPH | n | 1,440 | 218 | 16.3 | 3.80 | 2.40 | 10.6 |
| EA9 | 08/01/03 | 27.96 | 5.57 | 22.39 | NLPH | 128 | 1,090 | 81.9 | 9.90 | 2.00 | 0.90 | 3.10 |
| EA9 | 10/13/03 | 27.96 | 5.54 | 22.42 | NLPH | 110 | 937 | 54.0 | 6.00 | 1.50 | <0.50 | 1.80 |
| EA9 | 01/23/04 | 27.96 | 5.44 | 22.52 | NLPH | g | 1,560 | 114 | 14.4 | 2.00 | 1.80 | 5.50 |
| EA9 | 05/27/04 | 27.96 | 5.56 | 22.40 | NLPH | g | 1,390 | 65.6 | 16.6 | 3.40 | 1.90 | 4.80 |
| EA9 | 08/27/04 | 27.96 | 5.52 | 22.44 | NLPH | g | 1,620 | 26.6 | 13.7 | 3.30 | 1.30 | 4.30 |
| EA9 | 12/01/04 | 27.96 | 6.53 | 21.43 | NLPH | 80b | 1,140 | 32.4 | 9.80 | 3.80 | 4.00 | 12.0 |
| EA9 | 03/03/05 | 27.96 | 5.30 | 22.66 | NLPH | 222b | 1,350 | 37.2 | 14.4 | 2.40 | 1.60 | 4.50 |
| EA9 | 06/23/05 | 27.96 | 5.56 | 22.40 | NLPH | 286b | 1,520 | 25.2 | 14.2 | 3.00 | 1.60 | 4.80 |
| EA9 | 09/22/05 | 27.96 | 5.41 | 22.55 | NLPH | 142b | 523 | 13.7 | 5.56 | 2.17 | 2.25 | 3.59 |
| EA9 | 12/21/05 | 27.96 | 5.22 | 22.74 | NLPH | 109b | 328 | 10.2 | 2.86 | 1.03 | 0.530 | 0.610 |
| EA9 | 03/22/06 | 27.96 | 5.38 | 22.58 | NLPH | 170b | 1,500 | 27 | 17 | 3.2 | 1.5 | 5.7 |
| EA9 | 06/13/06 | 27.96 | 5.90 | 22.06 | NLPH | 160b | 1,400 | 13w | 13w | 2.8w | 0.88w | 4.2 w |
| EA9 | 09/22/06 | 27.96 | 5.57 | 22.39 | NLPH | g | 650 | 14.6 | 6.19 | 1.56 | 0.55 | 1.6 |
| EA9 | 12/21/06 | 27.96 | 5.50 | 22.46 | NLPH | g | 1,470 | 20.5 | 12.8 | 2.77 | 1.91 | 3.75 |
| EA9 | 03/20/07 | 27.96 | 5.58 | 22.38 | NLPH | <300 | 400 | 18 | 9 | 1.7 | 0.66 | 1.9 |
| EA9 | 6/11/2007 | 27.96 | 5.58 | 22.38 | NLPH | $<50$ | 340 | 11 | 3.7 | 1.1 | $<0.50$ | 1.10 |
| EA9 | 08/30/07 | 27.96 | 5.71 | 22.25 | NLPH | <80 | 60 | 3.8 | $<0.50$ | $<0.50$ | $<0.50$ | <0.50 |
| EA9 | 12/11/07 | 27.96 | 5.42 | 22.54 | NLPH | <100 | 85 | 6.1 | 1.9 | $<0.50$ | <0.50 | <0.50 |
| EA9 | 03/19/08 | 27.96 | 5.49 | 22.47 | NLPH | <300 | 430 | 17 | 17 | 2.2 | 0.81 | 2.4 |
| EA9 | 06/10/08 | 27.96 | 5.52 | 22.44 | NLPH | <200 | 1,200 | 13 | 14 | 2.3 | 1.0 | 3.2 |
| EA10 | 06/24/91 | --- | -- | -- | --- | 180 | <50 | --- | 0.5 | $<0.5$ | $<0.5$ | $<1.5$ |
| EA10 | 06/28/91 | 25.48 | 9.29 | 16.19 | NLPH | --- | --- | --- | --- | --- | --- | -- |
| EA10 | 10/03/91 | 25.48 | 6.19 | 19.29 | NLPH | <50 | <50 | --- | 1.4 | $<0.5$ | $<0.5$ | $<0.5$ |
| EA10 | 01/23/92 | 25.48 | 4.22 | 21.26 | NLPH | 270 | $<50$ | --- | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| EA10 | 04/28/92 | 25.48 | 3.55 | 21.93 | NLPH | <50 | <50 | --- | $<0.5$ | <0.5 | $<0.5$ | <0.5 |
| EA10 | 07/23/92 | 25.48 | 4.01 | 21.47 | NLPH | <50 | <50 | --- | <0.5 | $<0.5$ | $<0.5$ | $<0.5$ |
| EA10 | 10/22/92 | 25.48 | 4.32 | 21.16 | NLPH | 65 | <50 | --- | <0.5 | $<0.5$ | $<0.5$ | $<0.5$ |
| EA10 | 01/25/93 | 25.48 | 3.67 | 21.81 | NLPH | $<50$ | $<50$ | --- | $<0.5$ | $<0.5$ | $<0.5$ | 0.6 |
| EA10 | 04/13/93 | 25.48 | 3.60 | 21.88 | NLPH | $<50$ | <50 | --- | <0.5 | $<0.5$ | $<0.5$ | <0.5 |
| EA10 | 07/02/93 | 25.48 | 4.50 | 20.98 | NLPH | $<50$ | $<50$ | --- | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| EA10 | 10/12/93 | 25.48 | 3.92 | 21.56 | NLPH | 110 | <50 | --- | $<0.5$ | $<0.5$ | $<0.5$ | <0.5 |
| EA10 | 01/13/94 | 25.48 | 4.00 | 21.48 | NLPH | 80 | <50 | --- | $<0.5$ | $<0.5$ | <0.5 | $<0.5$ |
| EA10 | 04/04/94 | 25.48 | 3.58 | 21.90 | NLPH | <50 | <50 | -- | <0.5 | $<0.5$ | $<0.5$ | $<0.5$ |
| EA10 | 07/14/94 | 25.48 | 3.53 | 21.95 | NLPH | 70 | <50 | --- | <0.5 | $<0.5$ | <0.5 | $<0.5$ |
| EA10 | 10/12/94 | 25.48 | 3.37 | 22.11 | NLPH | <50 | <50 | --- | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| EA10 | 01/09/95 | 25.48 | 3.05 | 22.43 | NLPH | <50 | <50 | --- | $<0.5$ | <0.5 | $<0.5$ | $<0.5$ |
| EA10 | 04/12/95 | 25.48 | 3.66 | 21.82 | NLPH | 130b | <50 | -- | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| EA10 | 07/10/95 | 25.48 | 3.42 | 22.06 | NLPH | 58 b | <50 | $<2.5$ | $<0.5$ | <0.5 | $<0.5$ | $<0.5$ |


| $\begin{gathered} \hline \text { Well } \\ \text { ID } \\ \hline \end{gathered}$ | $\begin{aligned} & \hline \text { Sampling } \\ & \text { Date } \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { TOC } \\ & \text { (feet) } \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { DTW } \\ & \text { (feet) } \end{aligned}$ | $\begin{aligned} & \text { GW Elev. } \\ & \text { (feet) } \end{aligned}$ | SUBJ | $\begin{aligned} & \hline \text { TPHd } \\ & (\mu \mathrm{g} / \mathrm{L}) \\ & \hline \end{aligned}$ | $\begin{gathered} \mathrm{TPHg} \\ (\mu \mathrm{~g} / \mathrm{L}) \end{gathered}$ | $\begin{aligned} & \hline \text { MTBE } \\ & (\mu \mathrm{g} / \mathrm{L}) \end{aligned}$ | $\begin{gathered} \text { B } \\ (\mu \mathrm{g} / \mathrm{L}) \end{gathered}$ | $\begin{gathered} \top \\ (\mu \mathrm{g} / \mathrm{L}) \end{gathered}$ | $\begin{gathered} E \\ (\mu \mathrm{~g} / \mathrm{L}) \end{gathered}$ | $\begin{gathered} X \\ (\mu \mathrm{~g} / \mathrm{L}) \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| EA10 | 10/13/95 | 25.48 | 4.25 | 21.23 | NLPH | <50 | <50 | <2.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| EA10 | 01/17/96 | 25.48 | 4.24 | 21.24 | NLPH | 91 | <50 | <2.5 | $<0.5$ | <0.5 | $<0.5$ | <0.5 |
| EA10 | 04/04/96 | 25.48 | 3.73 | 21.75 | NLPH | 68 | <50 | <2.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| EA10 | 07/15/96 | 25.48 | 3.77 | 21.71 | NLPH | 140d | <50 | <2.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| EA10 | 10/21/96 | 25.48 | 4.22 | 21.26 | NLPH | 62d | <50 | <2.5 | $<0.5$ | $<0.5$ | <0.5 | $<0.5$ |
| EA10 | 01/07/97 | 25.48 | 3.81 | 21.67 | NLPH | $<50$ | <50 | <2.5 | $<0.5$ | <0.5 | <0.5 | <0.5 |
| EA10 | 04/28/97 | 25.48 | 4.10 | 21.38 | NLPH | <50 | <50 | <2.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| EA10 | 07/22/97 | 25.48 | 4.18 | 21.30 | NLPH | <50 | <50 | <2.5 | <0.5 | $<0.5$ | <0.5 | <0.5 |
| EA10 | 10/14/97 | 25.48 | 4.68 | 20.80 | NLPH | <50 | <50 | <2.5 | <0.5 | $<0.5$ | <0.5 | $<0.5$ |
| EA10 | 01/13/98 | 25.48 | 4.38 | 21.10 | NLPH | <50 | <50 | <2.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| EA10 | 04/14/98 | 25.48 | 3.54 | 21.94 | NLPH | <50 | <50 | <2.5 | <0.5 | $<0.5$ | <0.5 | <0.5 |
| EA10 | 07/14/98 | 25.48 | 3.53 | 21.95 | NLPH | <50 | <50 | $<2.5$ | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| EA10 | 10/13/98 | 25.48 | 4.65 | 20.83 | NLPH | 54d | <50 | <2.5 | $<0.5$ | $<0.5$ | <0.5 | <0.5 |
| EA10 | 01/19/99 | 25.48 | 4.76 | 20.72 | NLPH | <50 | <50 | <2.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| EA10 | 06/24/99 | 25.48 | 3.55 | 21.93 | NLPH | 50.5 | <50 | <2.5 | $<0.5$ | <0.5 | <0.5 | <0.5 |
| EA10 | 09/21/99 | 25.48 | 4.21 | 21.27 | NLPH | <50 | <50 | <2.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| EA10 | 12/30/99 | 25.48 | 4.83 | 20.65 | NLPH | <56 | <50 | <2 | <0.5 | <0.5 | $<0.5$ | <0.5 |
| EA10 | 03/22/00 | 25.48 | 3.51 | 21.97 | NLPH | --- | <50 | <2 | <0.5 | <0.5 | <0.5 | <0.5 |
| EA10 | April-2000 | 25.48 | Property transferred from Exxon Mobil to Valero. |  |  |  |  |  |  |  |  |  |
| EA10 | 06/15/00 | 25.48 | 3.61 | 21.87 | NLPH | 66 | $<50$ | <2 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| EA10 | 09/27/00 | 25.48 | 4.52 | 20.96 | NLPH | $<51$ | <50 | <2 | <0.5 | $<0.5$ | $<0.5$ | $<0.5$ |
| EA10 | 12/28/00 | 25.48 | 4.67 | 20.81 | NLPH | 1301 | <50 | <2 | <0.5 | <0.5 | 0.67 | 1.1 |
| EA10 | 03/27/01 | 25.48 | 3.88 | 21.60 | NL.PH | I,m | $<50$ | <2 | 1.1 | <0.5 | <0.5 | $<0.5$ |
| EA10 | May-2001 | 25.48 | Property transferred from Valero to Petroleum Sales inc. |  |  |  |  |  |  |  |  |  |
| EA10 | 06/26/01 | 25.48 | 4.47 | 21.01 | NLPH | <50 | <50 | <2 | <0.5 | <0.5 | $<0.5$ | <0.5 |
| EA10 | 09/25/01 | 25.48 | 4.02 | 21.46 | NLPH | <50 | $<50$ | <2 | 0.95 | $<0.5$ | $<0.5$ | 4.5 |
| EA10 | Nov-2001 | 28.11 | Well surveyed in compliance with AB 2886 requirements. |  |  |  |  |  |  |  |  |  |
| EA10 | 12/28/01 | 28.11 | 5.34 | 22.77 | NLPH | <100 | <100 | <1.00 | <1.00 | <1.00 | <1.00 | $<1.00$ |
| EA10 | 03/28/02 | 28.11 | 3.38 | 24.73 | NLPH | < 50.0 | <50.0 | 0.8 | 0.70 | <0.50 | $<0.50$ | <0.50 |
| EA10 | 06/26/02 | 28.11 | 3.61 | 24.50 | NLPH | <50 | <50 | 0.90 | 1.40 | <0.50 | <0.50 | 2.00 |
| EA10 | 09/30/02 | 28.11 | 4.15 | 23.96 | NLPH | - | --- | --- | --- | -- | --- | -- |
| EA10 | 10/14/02 | 28.11 | 5.72 | 22.39 | NLPH | <50 | $<50.0$ | $<0.50$ | <0.50 | <0.50 | $<0.50$ | $<0.50$ |
| EA10 | 12/27/02 | 28.11 | 4.18 | 23.93 | NLPH | <50 | <50.0 | <0.50 | <0.50 | <0.50 | <0.50 | 0.70 |
| EA10 | 03/20/03 | 28.11 | 4.32 | 23.79 | NLPH | <51 | <50.0 | 0.80 | 0.60 | <0.50 | <0.50 | $<0.50$ |
| EA10 | 05/23/03 | 28.11 | 4.34 | 23.77 | NLPH | <50 | <50.0 | 0.80 | 5.50 | 0.70 | 0.70 | 5.70 |
| EA10 | 08/01/03 | 28.11 | 3.80 | 24.31 | NLPH | <50 | <50.0 | 1.20 | 2.80 | <0.50 | $<0.50$ | <0.50 |
| EA10 | 10/17/03 | 28.11 | 5.18 | 22.93 | NLPH | <50 | <50.0 | 1.00 | <0.50 | <0.50 | $<0.50$ | <0.50 |
| EA10 | 01/23/04 | 28.11 | 4.35 | 23.76 | NLPH | <50 | <50.0 | 1.20 | $<0.50$ | <0.50 | <0.50 | $<0.50$ |
| EA10 | 05/27/04 j | 28.11 | --- | --- | --- | --- | --- | --- | --- | -- | --- | -- |
| EA10 | 08/27/04 | 28.11 | 4.03 | 24.08 | NLPH | p | p | p | p | p | p | $p$ |
| EA10 | 12/01/04 | 28.11 | 3.22 | 24.89 | NLPH | <50 | $<50.0$ | 0.80 | $<0.50$ | $<0.50$ | 0.80 | 2.20 |
| EA10 | 03/03/05 | 28.11 | 2.68 | 25.43 | NLPH | 99b | <50.0 | $<0.50$ | <0.50 | <0.50 | $<0.50$ | <0.50 |
| EA10 | 06/23/05 | 28.11 | 3.55 | 24.56 | NLPH | 108b | <100 | <0.50 | $<0.50$ | <0.50 | <0.50 | <0.50 |
| EA10 | 09/22/05 | 28.11 | 4.31 | 23.80 | NLPH | <50.0 | <50.0 | <0.500 | <0.500 | $<0.500$ | <0.500 | <0.500 |
| EA10 | 12/21/05 | 28.11 | 2.01 | 26.10 | NLPH | <55.6 | <50.0 | $<0.500$ | <0.500 | <0.500 | $<0.500$ | $<0.500$ |
| EA10 | 03/22/06 | 28.11 | 3.27 | 24.84 | NLPH | <47 | <50 | <0.50 | <0.50 | $<0.50$ | <0.50 | 0.70 |

TABLE 2
CUMULATIVE GROUNDWATER SAMPLING DATA Valero Station 13781
930 Del Presidio Bouleva

| $\begin{gathered} \text { Well } \\ \text { ID } \end{gathered}$ | Sampling Date | $\begin{aligned} & \hline \text { TOC } \\ & \text { (feet) } \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { DTW } \\ & \text { (feet) } \end{aligned}$ | GW Elev. (feet) | SUBJ | TPHd ( $\mu \mathrm{g} / \mathrm{L}$ ) | TPHg ( $\mu \mathrm{g} / \mathrm{L}$ ) | $\begin{aligned} & \text { MTBE } \\ & (\mu \mathrm{g} / \mathrm{L}) \end{aligned}$ | $\begin{gathered} \mathrm{B} \\ (\mu \mathrm{~g} / \mathrm{L}) \end{gathered}$ | $\begin{gathered} \mathrm{T} \\ (\mu \mathrm{~g} / \mathrm{L}) \end{gathered}$ | $\begin{gathered} E \\ (\mu \mathrm{~g} / \mathrm{L}) \end{gathered}$ | $\begin{gathered} X \\ (\mu \mathrm{~g} / \mathrm{L}) \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| EA10 | 06/13/06 | 28.11 | 2.86 | 25.25 | NLPH | <47 | <50 | 0.55w | <0.50w | <0.50w | <0.50w | <0.50w |
| EA10 | 09/22/06 | 28.11 | 3.54 | 24.57 | NLPH | 67b | $<50.0$ | 0.590 | $<0.500$ | <0.500 | $<0.500$ | <0.500 |
| EA10 | 12/21/06 | 28.11 | 4.02 | 24.09 | NLPH | 54b | <50.0 | $<0.500$ | $<0.500$ | $<0.500$ | $<0.500$ | $<0.500$ |
| EA10 | 03/20/07 | 28.11 | 4.50 | 23.61 | NLPH | $<50$ | $<50$ | <0.50 | $<0.50$ | $<0.50$ | $<0.50$ | $<0.50$ |
| EA10 | 6/11/2007 | 28.11 | 3.32 | 24.79 | NLPH | $<50$ | $<50$ | $<0.50$ | $<0.50$ | $<0.50$ | $<0.50$ | $<0.50$ |
| EA10 | 08/30/07 | 28.11 | 4.41 | 23.70 | NLPH | --- | --- | --- | --- | --- | --- | --- |
| EA10 | 12/11/07 | 28.11 | 3.94 | 24.17 | NLPH | --- | - | --- | --- | --- | --- | --- |
| EA10 | 03/19/08 | 28.11 | 3.37 | 24.74 | NLPH | --- | - | --- | ---. | --- | --- | --- |
| EA10 | 06/10/08 | 28.11 | 3.74 | 24.37 | NLPH | $<50$ | $<50$ | 1.1 | <0.50 | <0.50 | <0.50 | <0.50 |
| EA11 | 06/24/91 | --- | --- | --- | --- | 310 | 150 | --- | 2.9 | <0.5 | $<0.5$ | $<1.5$ |
| EA11 | 06/28/91 | 24.10 | 7.04 | 17.06 | NLPH | --- | -- | --- | --- | --- | -- | --- |
| EA11 | 10/03/91 | 24.10 | 7.56 | 16.54 | NLPH | 410 | 510 | --- | 37 | 1.2 | $<0.5$ | 2.6 |
| EA11 | 01/23/92 | 24.10 | 7.52 | 16.58 | NLPH | 110 | 560 | --- | 8.6 | 2.1 | 3.0 | 1.5 |
| EA11 | 04/28/92 | 24.10 | 6.48 | 17.62 | NLPH | 300 | 490 | --- | 6.1 | 0.9 | 2.4 | 1.0 |
| EA11 | 07/23/92 | 24.10 | 7.41 | 16.69 | NLPH | 430 | 760 | --- | 36 | 1.3 | 0.6 | $<0.5$ |
| EA11 | 10/22/92 | 24.10 | 8.28 | 15.82 | NLPH | 280 | 630 | --- | 62 | 1.1 | 0.7 | 1.7 |
| EA11 | 01/25/93 | 24.10 | 6.32 | 17.78 | NLPH | 130 | 300 | --- | $<0.5$ | $<0.5$ | 0.6 | 1.8 |
| EA11 | 04/13/93 | 24.10 | 6.95 | 17.15 | NLPH | 220 | 310 | --- | 2.7 | 0.5 | 3.4 | 2.2 |
| EA11 | 07/02/93 | 24.10 | 6.54 | 17.56 | NLPH | 360 | 380 | --- | 3.7 | 1.2 | 0.8 | 1.1 |
| EA11 | 10/12/93 | 24.10 | 7.95 | 16.15 | NLPH | 530 | 370 | --- | 4.2 | 0.6 | $<0.5$ | 1.1 |
| EA11 | 01/13/94 | 24.10 | 7.06 | 17.04 | NLPH | 820 | 360 | --- | 1.3 | 2.1 | $<0.5$ | 0.8 |
| EA11 | 04/04/94 | 24.10 | 6.35 | 17.75 | NLPH | 350 | 230 | --- | 1.5 | <0.5 | $<0.5$ | $<0.5$ |
| EA11 | 07/14/94 | 24.10 | 6.82 | 17.28 | NLPH | 380 | 400 | --- | $<0.5$ | <0.5 | 0.6 | 0.5 |
| EA11 | 10/12/94 | 24.10 | 7.57 | 16.53 | NLPH | 230 | 580 | --- | 3.8 | 2.0 | $<0.5$ | $<0.5$ |
| EA11 | 01/09/95 | 24.10 | 6.82 | 17.28 | NLPH | 740b | 340 | --- | 1.1 | $<0.5$ | $<0.5$ | 1.0 |
| EA11 | 04/12/95 | 24.10 | 5.83 | 18.27 | NLPH | 780b | 540 | --- | 7.5 | $<0.50$ | 3.7 | 1.1 |
| EA11 | 07/10/95 | 24.10 | 6.45 | 17.65 | NLPH | 800b | 800 | 140 | 2.9 | <1.0 | 1.6 | 2.8 |
| EA11 | 10/13/95 | 24.10 | 7.28 | 16.82 | NLPH | 550 | 930 | 130 | 11 | 3.5 | 1.0 | 1.6 |
| EA11 | 01/17/96 | 24.10 | 6.42 | 17.68 | NLPH | 650 | 260 | 61 | 3.4 | $<0.5$ | $<0.5$ | 0.52 |
| EA11 | 04/04/96 | 24.10 | 5.48 | 18.62 | NLPH | 910 | 610 | 77 | 6.3 | $<0.5$ | $<0.5$ | 1.2 |
| EA11 | 07/15/96 | 24.10 | 6.26 | 17.84 | NLPH | 890d | 570 | 84 | 5.4 | 0.91 | 0.65 | 2.4 |
| EA11 | 10/21/96 | 24.10 | 8.05 | 16.05 | NLPH | 920d | 520 i | 88 | 2.2 | 0.89 | 1.1 | 1.9 |
| EA11 | 01/07/97 | 24.10 | 5.65 | 18.45 | NLPH | 990d | 170 | 63 | 1.5 | $<0.5$ | $<0.5$ | 0.60 |
| EA11 | 04/28/97 | 24.10 | 5.72 | 18.38 | NLPH | 560d | 200 | 58 | 0.73 | $<0.5$ | $<0.5$ | 0.59 |
| EA11 | 07/22/97 | 24.10 | 6.03 | 18.07 | NLPH | 690d | 230 | 66 | 0.61 | $<0.5$ | $<0.5$ | 0.84 |
| EA11 | 10/14/97 | 24.10 | 6.00 | 18.10 | NLPH | 980d | 1,100i | 87 | 6.8 | <2.0 | $<2.0$ | 3.3 |
| EA11 | 01/13/98 | 24.10 | 5.17 | 18.93 | NLPH | 930d | 340 | 82 | 1.7 | 0.53 | $<0.5$ | 0.86 |
| EA11 | 04/14/98 | 24.10 | 4.57 | 19.53 | NLPH | 370d | 130 | 63 | $<0.5$ | <0.5 | $<0.5$ | <0.5 |
| EA11 | 07/14/98 | 24.10 | 5.11 | 18.99 | NLPH | 490d | 300 i | 69 | <0.5 | <0.5 | 0.58 | $<0.5$ |
| EA11 | 10/13/98 | 24.10 | 5.93 | 18.17 | NLPH | 520d | 200 | 91 | 1.1 | 0.54 | $<0.5$ | $<0.5$ |
| EA11 | 01/19/99 | 24.10 | 6.94 | 17.16 | NLPH | 490 | 490 | 65 | 2.4 | 1.2 | 0.92 | 0.83 |
| EA11 | 06/25/99 | 24.10 | 5.42 | 18.68 | NLPH | e | 92.3 | 67.2 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| EA11 | 09/21/99 | 24.10 | 6.00 | 18.10 | NLPH | 454d | $247 i$ | 55.6 | 0.760 | $<0.5$ | $<0.5$ | 0.690 |
| EA11 | 12/30/99 | 24.10 | 6.57 | 17.53 | NLPH | 420 | 210 | 100 | 1.5 | $<0.5$ | 0.63 | 1.1 |
| EA11 | 03/22/00 j | 24.10 | --- | --- | --- | --- | --- | -- | --- | --- | --- | --- |


| $\begin{gathered} \text { Well } \\ \text { ID } \\ \hline \end{gathered}$ | Sampling <br> Date | $\begin{aligned} & \hline \text { TOC } \\ & \text { (feet) } \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { DTW } \\ & \text { (feet) } \\ & \hline \end{aligned}$ | GW Elev. (feet) | SUBJ | $\begin{aligned} & \hline \text { TPHd } \\ & (\mu \mathrm{g} / \mathrm{L}) \\ & \hline \end{aligned}$ | $\begin{aligned} & \begin{array}{l} \mathrm{TPHg} \\ (\mu \mathrm{~g} / \mathrm{L}) \end{array} \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { MTBE } \\ & (\mu \mathrm{g} / \mathrm{L}) \end{aligned}$ | $\begin{gathered} \hline B \\ (\mu \mathrm{~g} / \mathrm{L}) \\ \hline \end{gathered}$ | $\begin{gathered} \top \\ (\mu \mathrm{g} / \mathrm{L}) \end{gathered}$ | $\begin{gathered} \mathrm{E} \\ (\mu \mathrm{~g} / \mathrm{L}) \end{gathered}$ | $\begin{gathered} X \\ (\mu \mathrm{~g} / \mathrm{L}) \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| EA11 | April-2000 | 24.10 | Property transferred from Exxon Mobil to Valero. |  |  |  |  |  |  |  |  |  |
| EA11 | 06/15/00 | 24.10 | 5.98 | 18.12 | NLPH | 250 | $<50$ | 83 | <0.5 | $<0.5$ | $<0.5$ | <0.5 |
| EA11 | 09/27/00 | 24.10 | 6.20 | 17.90 | NLPH | 270 | 79 | 81 | $<0.5$ | $<0.5$ | <0.5 | 0.51 |
| EA11 | 12/28/00 | 24.10 | 5.68 | 18.42 | NLPH | 4201 | 73 | 65 | 0.63 | $<0.5$ | 0.61 | 0.78 |
| EA11 | 03/27/01 | 24.10 | 4.88 | 19.22 | NLPH | 3001 | <50 | 66 | <0.5 | <0.5 | <0.5 | <0.5 |
| EA11 | May-2001 | 24.10 | Property transferred from Valero to Petroleum Sales Inc. |  |  |  |  |  |  |  |  |  |
| EA11 | 06/26/01 | 24.10 | 6.08 | 18.02 | NLPH | 52 | <50 | 70 | $<0.5$ | $<0.5$ | <0.5 | <0.5 |
| EA11 | 09/25/01 | 24.10 | 6.49 | 17.61 | NLPH | 450 | 180 | 67 | 0.53 | <0.5 | <0.5 | 3.15 |
| EA11 | Nov-2001 | 26.67 | Well surveyed in compliance with AB 2886 requirements. |  |  |  |  |  |  |  |  |  |
| EA11 | 12/28/01 | 26.67 | 5.60 | 21.07 | NLPH | 377 | 174 | 68.6 | <1.00 | <1.00 | <1.00 | <1.00 |
| EA11 | 03/28/02 | 26.67 | 5.46 | 21.21 | NLPH | 101 | <50.0 | 74.9 | $<0.50$ | $<0.50$ | <0.50 | 0.70 |
| EA11 | 06/26/02 | 26.67 | 6.01 | 20.66 | NLPH | 71 | 95 | 70.6 | $<0.50$ | $<0.50$ | <0.50 | 1.90 |
| EA11 | 09/30/02 | 26.67 | 6.51 | 20.16 | NLPH | --- | --- | --- | --- | -- | --- | --- |
| EA11 | 10/14/02 | 26.67 | 6.52 | 20.15 | NLPH | 239 | 130 | 62.0 | <0.50 | $<0.50$ | $<0.50$ | $<0.50$ |
| EA11 | 12/27/02 | 26.67 | 5.75 | 20.92 | NLPH | 186 | 178 | 71.8 | $<0.50$ | $<0.50$ | <0.50 | $<0.50$ |
| EA11 | 03/20/03 | 26.67 | 5.52 | 21.15 | NLPH | 108 | 73.8 | 46.7 | 0.60 | $<0.50$ | 0.60 | 0.90 |
| EA11 | 05/23/03 | 26.67 | 5.61 | 21.06 | NLPH | 298 | 81.5 | 43.4 | 4.30 | 0.60 | 0.60 | 5.80 |
| EA11 | 08/01/03 | 26.67 | 6.11 | 20.56 | NLPH | 64 | 85.6 | 38.8 | 1.60 | <0.50 | $<0.50$ | <0.50 |
| EA11 | 10/17/03 | 26.67 | 6.34 | 20.33 | NLPH | 359 | 136 | 49.7 | <0.50 | <0.50 | $<0.50$ | $<0.50$ |
| EA11 | 01/23/04 | 26.67 | 5.29 | 21.38 | NLPH | 250 | 63.8 | 50.0 | <0.50 | <0.50 | <0.50 | <0.50 |
| EA11 | 05/27/04 | 26.67 | 5.77 | 20.90 | NLPH | 390 | 188 | 43.9 | 0.60 | <0.50 | <0.50 | <0.50 |
| EA11 | 08/27/04 | 26.67 | 5.72 | 20.95 | NLPH | 335 | 82.0 | 24.9 | $<0.50$ | <0.50 | <0.50 | <0.50 |
| EA11 | 12/01/04 | 26.67 | 6.11 | 20.56 | NLPH | 274b | 115 | 35.4 | <0.50 | 1.00 | 1.20 | 3.50 |
| EA11 | 03/03/05 | 26.67 | 5.42 | 21.25 | NLPH | 806b | 80.3 | 31.9 | <0.50 | <0.50 | <0.50 | <0.50 |
| EA11 | 06/23/05 | 26.67 | 5.91 | 20.76 | NLPH | 1,200b | <100 | 32.2 | $<0.50$ | $<0.50$ | $<0.50$ | 0.70 |
| EA11 | 09/22/05 | 26.67 | 6.37 | 20.30 | NLPH | 365b | 71.2 | 33.4 | <0.500 | $<0.500$ | <0.500 | <0.500 |
| EA11 | 12/21/05 | 26.67 | 5.82 | 20.85 | NLPH | 1,450b | 134 | 25.2 | <0.500 | 0.730 | <0.500 | <0.500 |
| EA11 | 03/22/06 | 26.67 | 5.18 | 21.49 | NLPH | 93b | 130 | 32 | <0.50 | <0.50 | <0.50 | 0.57 |
| EA11 | 06/13/06 | 26.67 | 5.70 | 20.97 | NLPH | 62b | 110 | 33w | <0.50w | <0.50w | <0.50w | <0.50w |
| EA11 | 09/22/06 | 26.67 | 6.53 | 20.14 | NLPH | 81b | 113 | 37.4 | $<0.500$ | <0.500 | <0.500 | <0.500 |
| EA11 | 12/21/06 | 26.67 | 6.10 | 20.57 | NLPH | 120b | 112 | 30.4 | <0.500 | $<0.500$ | $<0.500$ | <0.500 |
| EA11 | 03/20/07 | 26.67 | 5.50 | 21.17 | NLPH | 260 | <50 | 26 | <0.50 | <0.50 | <0.50 | <0.50 |
| EA11 | 6/11/2007 | 26.67 | 6.04 | 20.63 | NLPH | <50 | 110 | 32 | <0.50 | <0.50 | <0.50 | <0.50 |
| EA11 | 08/30/07 | 26.67 | 6.68 | 19.99 | NLPH | 220 | $<50$ | 15 | $<0.50$ | $<0.50$ | <0.50 | $<0.50$ |
| EA11 | 12/11/07 | 26.67 | 6.38 | 20.29 | NLPH | 180y | <50 | 23 | <0.50 | <0.50 | <0.50 | <0.50 |
| EA11 | 03/19/08 | 26.67 | 4.43 | 22.24 | NLPH | 94 | <50 | 2.6 | $<0.50$ | <0.50 | <0.50 | <0.50 |
| EA11 | 06/10/08 | 26.67 | 5.56 | 21.11 | NLPH | 140 | <50 | 15 | $<0.50$ | <0.50 | <0.50 | <0.50 |
| EA12 | 06/24/91 g | -- | --- | --- | --- | --- | --- | --- | --- | --- | --- | -- |
| EA12 | 06/28/91 g | 23.93 | --- | --- | -- | --- | - | --- | -- | -- | - | -- |
| EA12 | 10/03/91 | 23.93 | 9.00 | 14.93 | NLPH | $<50$ | $<50$ | --- | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| EA12 | 01/23/92 | 23.93 | 6.97 | 16.96 | NLPH | <50 | <50 | --- | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| EA12 | 04/28/92 | 23.93 | 6.41 | 17.52 | NLPH | <50 | <50 | --- | <0.5 | $<0.5$ | <0.5 | <0.5 |
| EA12 | 07/23/92 | 23.93 | 6.83 | 17.10 | NLPH | <50 | $<50$ | --- | <0.5 | $<0.5$ | $<0.5$ | <0.5 |
| EA12 | 10/22/92 | 23.93 | 7.33 | 16.60 | NLPH | <50 | <50 | -- | <0.5 | $<0.5$ | $<0.5$ | $<0.5$ |
| EA12 | 01/25/93 | 23.93 | 9.46 | 14.47 | NLPH | <50 | <50 | --- | <0.5 | $<0.5$ | $<0.5$ | $<0.5$ |


| Well ID | Sampling Date | $\begin{aligned} & \text { TOC } \\ & \text { (feet) } \end{aligned}$ | $\begin{aligned} & \text { DTW } \\ & \text { (feet) } \end{aligned}$ | GW Elev. (feet) | SUBJ | $\begin{aligned} & \text { TPHd } \\ & (\mu \mathrm{g} / \mathrm{L}) \\ & \hline \end{aligned}$ | TPHg ( $\mu \mathrm{g} / \mathrm{L}$ ) | $\begin{aligned} & \hline \text { MTBE } \\ & (\mu \mathrm{g} / \mathrm{L}) \end{aligned}$ | $\begin{gathered} \mathrm{B} \\ (\mu \mathrm{~g} / \mathrm{L}) \end{gathered}$ | $\begin{gathered} \mathrm{T} \\ (\mu \mathrm{~g} / \mathrm{L}) \end{gathered}$ | $\begin{gathered} \mathrm{E} \\ (\mu \mathrm{~g} / \mathrm{L}) \end{gathered}$ | $\begin{gathered} X \\ (\mu \mathrm{~g} / \mathrm{L}) \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| EA12 | 04/13/93 | 23.93 | 9.54 | 14.39 | NLPH | <50 | <50 | --- | <0.5 | <0.5 | <0.5 | $<0.5$ |
| EA12 | 07/02/93 | 23.93 | 8.35 | 15.58 | NLPH | <50 | <50 | --- | $<0.5$ | <0.5 | <0.5 | <0.5 |
| EA12 | 10/12/93 | 23.93 | 6.55 | 17.38 | NLPH | --- | --- | --- | --- | --- | -- | --- |
| EA12 | 01/13/94 | 23.93 | 5.68 | 18.25 | NLPH | $<50$ | <50 | --- | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| EA12 | 04/04/94 | 23.93 | 7.45 | 16.48 | NLPH | --- | --- | --- | --- | --- | --- | --- |
| EA12 | 07/14/94 | 23.93 | 2.08 | 21.85 | NLPH | -- | --- | --- | -- | --- | --- | --- |
| EA12 | 10/12/94 | 23.93 | 1.08 | 22.85 | NLPH | $<50$ | <50 | --- | <0.5 | $<0.5$ | <0.5 | <0.5 |
| EA12 | 01/09/95 | 23.93 | 7.82 | 16.11 | NLPH | <50 | <50 | --- | $<0.5$ | $<0.5$ | $<0.5$ | <0.5 |
| EA12 | 04/12/95 | 23.93 | 8.05 | 15.88 | NLPH | $<50$ | <50 | --- | $<0.5$ | $<0.5$ | <0.5 | <0.5 |
| EA12 | 07/10/95 | 23.93 | 6.80 | 17.13 | NLPH | <50 | $<50$ | <2.5 | $<0.5$ | 1.0 | $<0.5$ | 0.84 |
| EA12 | 10/13/95 | 23.93 | 5.75 | 18.18 | NLPH | <50 | <50 | 4.0 | <0.5 | $<0.5$ | $<0.5$ | $<0.5$ |
| EA12 | 01/17/96 | 23.93 | 8.65 | 15.28 | NLPH | 59 | <50 | $<2.5$ | $<0.5$ | $<0.5$ | $<0.5$ | <0.5 |
| EA12 | 04/04/96 | 23.93 | 9.32 | 14.61 | NLPH | $<50$ | <50 | $<2.5$ | $<0.5$ | $<0.5$ | <0.5 | <0.5 |
| EA12 | 07/15/96 | 23.93 | 6.67 | 17.26 | NLPH | 93 k | <50 | <2.5 | $<0.5$ | $<0.5$ | <0.5 | $<0.5$ |
| EA12 | 10/21/96 | 23.93 | 6.23 | 17.70 | NLPH | 54 k | <50 | <2.5 | <0.5 | $<0.5$ | $<0.5$ | <0.5 |
| EA12 | 01/07/97 | 23.93 | 8.75 | 15.18 | NLPH | <50 | <50 | <2.5 | $<0.5$ | $<0.5$ | <0.5 | $<0.5$. |
| EA12 | 04/28/97 | 23.93 | 8.27 | 15.66 | NLPH | $<50$ | <50 | <2.5 | $<0.5$ | $<0.5$ | $<0.5$ | <0.5 |
| EA12 | 07/22/97 | 23.93 | 6.90 | 17.03 | NLPH | <50 | <50 | <2.5 | <0.5 | <0.5 | <0.5 | $<0.5$ |
| EA12 | 10/14/97 | 23.93 | 7.39 | 16.54 | NLPH | <50 | <50 | <2.5 | $<0.5$ | $<0.5$ | $<0.5$ | <0.5 |
| EA12 | 01/13/98 | 23.93 | 8.49 | 15.44 | NLPH | $<50$ | $<50$ | <2.5 | $<0.5$ | $<0.5$ | $<0.5$ | <0.5 |
| EA12 | 04/14/98 | 23.93 | 8.36 | 15.57 | NLPH | $<50$ | <50 | <2.5 | $<0.5$ | $<0.5$ | <0.5 | <0.5 |
| EA12 | 07/14/98 | 23.93 | 6.92 | 17.01 | NLPH | $<50$ | <50 | <2.5 | $<0.5$ | $<0.5$ | <0.5 | <0.5 |
| EA12 | 10/13/98 | 23.93 | 6.33 | 17.60 | NLPH | $<50$ | <50 | <2.5 | $<0.5$ | $<0.5$ | <0.5 | $<0.5$ |
| EA12 | 01/19/99 | 23.93 | 8.76 | 15.17 | NLPH | $<50$ | <50 | <2.5 | $<0.5$ | $<0.5$ | <0.5 | <0.5 |
| EA12 | 06/24/99 | 23.93 | 5.65 | 18.28 | NLPH | $<50$ | $<50$ | <2.5 | $<0.5$ | <0.5 | <0.5 | <0.5 |
| EA12 | 09/21/99 | 23.93 | 5.33 | 18.60 | NLPH | <50 | <50 | <2.5 | $<0.5$ | $<0.5$ | <0.5 | <0.5 |
| EA12 | 12/30/99 | 23.93 | 8.32 | 15.61 | NLPH | <50 | $<50$ | <2 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| EA12 | 03/22/00 | 23.93 | 8.45 | 15.48 | NLPH | <56 | <50 | <2 | $<0.5$ | <0.5 | $<0.5$ | <0.5 |
| EA12 | April-2000 | 23.93 | Property fransferred from Exxon Mobil to Valero. |  |  |  |  |  |  |  |  |  |
| EA12 | 06/15/00 | 23.93 | 7.14 | 16.79 | NLPH | $<50$ | $<50$ | <2 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| EA12 | 09/27/00 | 23.93 | 6.75 | 17.18 | NLPH | $<51$ | $<50$ | <2 | <0.5 | $<0.5$ | $<0.5$ | $<0.5$ |
| EA12 | 12/28/00 | 23.93 | 9.43 | 14.50 | NLPH | 1101 | 80 | 4.8 | 3.5 | 2.8 | 4.3 | 9.9 |
| EA12 | 03/27/01 | 23.93 | 10.23 | 13.70 | NLPH | <62 1 | $<50$ | <2 | 3 | <0.5 | <0.5 | <0.5 |
| EA12 | May-2001 | 23.93 | Property transferred from Valero to Petroleum Sales Inc. |  |  |  |  |  |  |  |  |  |
| EA12 | 06/26/01 | 23.93 | 8.36 | 15.57 | NLPH | $<50$ | $<50$ | <2 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| EA12 | 09/25/01 | 23.93 | 7.90 | 16.03 | NLPH | <50 | <50 | <2 | <0.5 | <0.5 | <0.5 | 3.9 |
| EA12 | Nov-2001 | 26.56 | Well surveyed in compliance with AB 2886 requirements. |  |  |  |  |  |  |  |  |  |
| EA12 | 12/28/01 | 26.56 | 9.84 | 16.72 | NLPH | $<100$ | <100 | 1.30 | <1.00 | <1.00 | <1.00 | <1.00 |
| EA12 | 03/28/02 | 26.56 | 10.51 | 16.05 | NLPH | <50.0 | $<50.0$ | <0.5 | $<0.50$ | $<0.50$ | $<0.50$ | $<0.50$ |
| EA12 | 06/26/02 | 26.56 | 8.96 | 17.60 | NLPH | $<50$ | <50 | 0.80 | 5.40 | 0.60 | 0.70 | 2.60 |
| EA12 | 09/30/02 | 26.56 | 7.75 | 18.81 | NLPH | -- | --- | --- | -- | --- | --- | --- |
| EA12 | 10/14/02 | 26.56 | 13.21 | 13.35 | NLPH | $<50$ | $<50.0$ | $<0.50$ | $<0.50$ | $<0.50$ | $<0.50$ | $<0.50$ |
| EA12 | 12/27/02 | 26.56 | 10.75 | 15.81 | NLPH | <50 | $<50.0$ | $<0.50$ | $<0.50$ | 0.70 | 0.80 | 2.50 |
| EA12 | 03/20/03 | 26.56 | 11.02 | 15.54 | NLPH | NS | $<50.0$ | $<0.50$ | 1.10 | <0.50 | 1.00 | 1.70 |
| EA12 | 05/23/03 | 26.56 | 10.53 | 16.03 | NLPH | n | $<50.0$ | $<0.50$ | 5.00 | 0.80 | 0.70 | 4.00 |
| EA12 | 08/01/03 | 26.56 | 9.12 | 17.44 | NLPH | <50 | $<50.0$ | 0.70 | 3.30 | <0.50 | 0.60 | <0.50 |



| $\begin{gathered} \hline \text { Well } \\ \text { ID } \\ \hline \end{gathered}$ | $\begin{aligned} & \text { Sampling } \\ & \text { Date } \end{aligned}$ | $\begin{aligned} & \hline \text { TOC } \\ & \text { (feet) } \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { DTW } \\ & \text { (feet) } \end{aligned}$ | GW Elev. (feet) | SUBJ | $\begin{aligned} & \hline \text { TPHd } \\ & (\mu \mathrm{g} / \mathrm{L}) \\ & \hline \end{aligned}$ | $\begin{gathered} \hline \text { TPHg } \\ (\mu \mathrm{g} / \mathrm{L}) \\ \hline \end{gathered}$ | $\begin{aligned} & \hline \text { MTBE } \\ & (\mu \mathrm{g} / \mathrm{L}) \end{aligned}$ | $\begin{gathered} \text { B } \\ (\mu \mathrm{g} / \mathrm{L}) \end{gathered}$ | $\begin{gathered} \top \\ (\mu \mathrm{g} / \mathrm{L}) \end{gathered}$ | $\begin{gathered} \mathrm{E} \\ (\mu \mathrm{~g} / \mathrm{L}) \end{gathered}$ | $\begin{gathered} X \\ (\mathrm{~g} / \mathrm{L}) \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| EA13 | 10/14/97 | 22.89 | 14.87 | 8.02 | NLPH | --- | - | --- | --- | --- | - | - |
| EA13 | 01/13/98 | 22.89 | 7.06 | 15.83 | NLPH | 220d | $<50$ | <2.5 | $<0.5$ | <0.5 | <0.5 | <0.5 |
| EA13 | 04/14/98 | 22.89 | 2.71 | 20.18 | NLPH | 74d | <50 | <2.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| EA13 | 07/14/98 | 22.89 | 11.14 | 11.75 | NLPH | 79d | <50 | <2.5 | <0.5 | $<0.5$ | <0.5 | <0.5 |
| EA13 | 10/13/98 | 22.89 | 14.39 | 8.50 | NLPH | 160d | <50 | <2.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| EA13 | 01/19/99 g | 22.89 | --- | --- | --- | --- | -- | --- | --- | --- | -- | --- |
| EA13 | 06/24/99 | 22.89 | 7.14 | 15.75 | NLPH | 76.2 | <50 | <2.5 | <0.5 | <0.5 | $<0.5$ | <0.5 |
| EA13 | 09/21/99 | 22.89 | 14.45 | 8.44 | NLPH | g | g | g | g | g | 9 | 9 |
| EA13 | 12/30/99 | 22.89 | 14.81 | 8.08 | NLPH | g | g | 9 | g | g | g | g |
| EA13 | 03/22/00 | 22.89 | 2.70 | 20.19 | NLPH | $<52$ | $<50$ | <5 | <5 | <5 | <5 | < |
| EA13 | April-2000 | 22.89 | Property transferred from Exxon Mobil to Valero. |  |  |  |  |  |  |  |  |  |
| EA13 | 06/15/00 | 22.89 | 14.71 | 8.18 | NLPH | --- | --- | --- | --- | --- | --- | --- |
| EA13 | 09/27/00 g | 22.89 | --- | -- | --- | --- | --- | --- | --- | --- | --- | --- |
| EA13 | 03/27/01 | 22.89 | 4.21 | 18.68 | NLPH | 771 | $<50$ | <2 | <0.5 | <0.5 | <0.5 | <0.5 |
| EA13 | May-2001 | 22.89 | Property transferred from Valero to Petroleum Sales Inc. |  |  |  |  |  |  |  |  |  |
| EA13 | 06/26/01 g | 22.89 | -- | --- | --- | --- | --- | -- | --- | --- | --- | --- |
| EA13 | 09/25/01 g | 22.89 | --- | -- | --- | --- | -- | --- | --- | --- | --- | --- |
| EA13 | Nov-2001 | 25.49 | Well surveyed in compliance with $A B 2886$ requirements. |  |  |  |  |  |  |  |  |  |
| EA13 | 12/28/01 | 25.49 | 7.74 | 17.75 | NLPH | <100 | <100 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 |
| EA13 | 03/28/02 | 25.49 | 3.31 | 22.18 | NLPH | 70.0 | <50.0 | $<0.5$ | <0.50 | <0.50 | <0.50 | <0.50 |
| EA13 | 06/26/02 | 25.49 | 14.42 | 11.07 | NLPH | g | g | g | 9 | g | g | h |
| EA13 | 09/30/02 | 25.49 | 14.81 | 10.68 | NLPH | --- | -- | --- | --- | --- | -- | --- |
| EA13 | 10/14/02 | 25.49 | 14.86 | 10.63 | NLPH | g | g | g | g | 9 | g | g |
| EA13 | 12/27/02 | 25.49 | 5.75 | 19.74 | NLPH | 138 | <50.0 | $<0.50$ | $<0.50$ | $<0.50$ | $<0.50$ | 1.10 |
| EA13 | 03/20/03 | 25.49 | 2.37 | 23.12 | NLPH | <50 | $<50.0$ | <0.50 | 0.60 | <0.50 | <0.50 | 0.80 |
| EA13 | 05/23/03 | 25.49 | 4.66 | 20.83 | NLPH | <50 | <50.0 | $<0.50$ | 1.80 | $<0.50$ | $<0.50$ | $<0.50$ |
| EA13 | 08/01/03 g | 25.49 | --- | --- | -- | --- | --- | --- | --- | --- | -- | --- |
| EA13 | 10/17/03 g | 25.49 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| EA13 | 01/23/04 | 25.49 | 4.08 | 21.41 | NLPH | 533 | < 50.0 | $<0.50$ | <0.50 | <0.50 | $<0.50$ | <0.50 |
| EA13 | 05/27/04 | 25.49 | 14.30 | 11.19 | NLPH | g | g | g | g | 9 | g | g |
| EA13 | 08/27/04 g | 25.49 | --- | --- | --- | --- | -- | --- | --- | -- | --- | --- |
| EA13 | 12/01/04 g | 25.49 | --- | --- | -- | --- | --- | --- | --- | --- | --- | --- |
| EA13 | 03/03/05 | 25.49 | 4.12 | 21.37 | NLPH | 116b | <50.0 | $<0.50$ | $<0.50$ | $<0.50$ | $<0.50$ | $<0.50$ |
| EA13 | 06/23/05 | 25.49 | 5.44 | 20.05 | NLPH | 306b | <100 | <0.50 | $<0.50$ | <0.50 | $<0.50$ | 0.60 |
| EA13 | 09/22/05 g | 25.49 | --- | --- | -- | --- | --- | --- | --- | --- | --- | --- |
| EA13 | 12/21/05 | 25.49 | 14.89 | 10.60 | NLPH | g | g | 9 | g | 9 | 9 | g |
| EA13 | 03/22/06 | 25.49 | 4.05 | 21.44 | NLPH | 49b | $<50$ | $<0.50$ | <0.50 | $<0.50$ | $<0.50$ | 0.52 |
| EA13 | 06/13/06 | 25.49 | 5.50 | 19.99 | NLPH | $<48$ | <50 | <0.50w | 0.91w | <0.50w | <0.50w | <0.50w |
| EA13 | 09/22/06 g | 25.49 | -- | --- | -- | --- | --- | --- | -- | --- | --- | -- |
| EA13 | 12/21/06 g | 25.49 | 14.53 | 10.96 | --- | --- | -- | --- | --- | --- | --- | --- |
| EA13 | 03/20/07 | 25.49 | 3.49 | 22.00 | NLPH | <50 | $<50$ | $<0.50$ | $<0.50$ | $<0.50$ | $<0.50$ | $<0.50$ |
| EA13 | 6/11/2007 | 25.49 | 5.47 | 20.02 | NLPH | g | g | g | g | g | g | g |
| EA13 | 08/30/07 | 25.49 | 9.45 | 16.04 | NLPH | --- | --- | --- | --- | --- | --- | --- |
| EA13 | 12/11/07 | 25.49 | 12.29 | 13.20 | NLPH | --- | --- | --- | -- | --- | --- | -- |
| EA13 | 03/19/08 | 25.49 | 2.94 | 22.55 | NLPH | --- | --- | - | --- | --- | --- | --- |
| EA13 | 06/10/08 | 25.49 | 5.44 | 20.05 | NLPH | 99 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |

TABLE 2
CUMULATIVE GROUNDWATER SAMPLING DATA Valero Station 13781
930 Del Presidio Boulevar
San Rafael, California
(Page 23 of 29)

| Well ID | Sampling Date | $\begin{gathered} \hline \text { TOC } \\ \text { (feet) } \\ \hline \end{gathered}$ | $\begin{aligned} & \text { DTW } \\ & \text { (feet) } \end{aligned}$ | GW Elev. (feet) | SUBJ | $\begin{aligned} & \text { TPHd } \\ & (\mu \mathrm{g} / \mathrm{L}) \end{aligned}$ | $\begin{array}{r} \mathrm{TPHg} \\ (\mu \mathrm{~g} / \mathrm{L}) \end{array}$ | $\begin{aligned} & \text { MTBE } \\ & (\mu \mathrm{g} / \mathrm{L}) \end{aligned}$ | $\begin{gathered} \mathrm{B} \\ (\mu \mathrm{~g} / \mathrm{L}) \end{gathered}$ | $\begin{gathered} \mathrm{T} \\ (\mu \mathrm{~g} / \mathrm{L}) \end{gathered}$ | $\begin{gathered} E \\ (\mu \mathrm{~g} / \mathrm{L}) \end{gathered}$ | $\begin{gathered} \mathrm{X} \\ (\mu \mathrm{~g} / \mathrm{L}) \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| EA14 | 06/24/91 | --- | --- | --- | --- | 290 | $<50$ | --- | <0.5 | <0.5 | $<0.5$ | <1.5 |
| EA14 | 06/28/91 | 22.90 | --- | --- | --- | --- | --- | --- | -- | --- | -.- | --- |
| EA14 | 10/03/91 | 22.90 | 5.56 | 17.34 | NLPH | <50 | $<50$ | -- | $<0.5$ | $<0.5$ | <0.5 | <0.5 |
| EA14 | 01/23/92 | 22.90 | 2.77 | 20.13 | NLPH | <50 | $<50$ | --- | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| EA14 | 04/28/92 | 22.90 | 2.56 | 20.34 | NLPH | <50 | $<50$ | --- | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| EA14 | 07/23/92 | 22.90 | 3.90 | 19.00 | NLPH | $<50$ | $<50$ | --- | $<0.5$ | <0.5 | <0.5 | $<0.5$ |
| EA14 | 10/22/92 | 22.90 | 5.75 | 17.15 | NLPH | $<50$ | $<50$ | --- | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| EA14 | 01/25/93 | 22.90 | 1.39 | 21.51 | NLPH | <50 | $<50$ | --- | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| EA14 | 04/13/93 | 22.90 | 2.00 | 20.90 | NL.PH | $<50$ | $<50$ | --- | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| EA14 | 07/02/93 | 22.90 | 3.12 | 19.78 | NLPH | $<50$ | $<50$ | --- | $<0.5$ | $<0.5$ | <0.5 | $<0.5$ |
| EA14 | 10/12/93 | 22.90 | 6.24 | 16.66 | NLPH | --- | --- | --- | --- | - | --- | --- |
| EA14 | 01/13/94 | 22.90 | 2.45 | 20.45 | NLPH | 80 | $<50$ | --- | <0.5 | <0.5 | $<0.5$ | $<0.5$ |
| EA14 | 04/04/94 | 22.90 | 2.66 | 20.24 | NLPH | --- | --- | --- | --- | --- | --- | --- |
| EA14 | 07/14/94 | 22.90 | 3.14 | 19.76 | NLPH | --- | --- | --- | --- | --- | --- | --. |
| EA14 | 10/12/94 | 22.90 | 3.00 | 19.90 | NLPH | $<50$ | $<50$ | --- | $<0.5$ | $<0.5$ | $<0.5$ | <0.5 |
| EA14 | 01/09/95 | 22.90 | 6.01 | 16.89 | NLPH | $<50$ | $<50$ | --- | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| EA14 | 04/12/95 | 22.90 | 2.26 | 20.64 | NLPH | $<50$ | $<50$ | --- | $<0.5$ | <0.5 | $<0.5$ | $<0.5$ |
| EA14 | 07/10/95 | 22.90 | 3.24 | 19.66 | NLPH | $<50$ | $<50$ | <2.5 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| EA14 | 10/13/95 | 22.90 | 4.44 | 18.46 | NLPH | $<50$ | $<50$ | $<2.5$ | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| EA14 | 01/17/96 | 22.90 | 1.73 | 21.17 | NLPH | <50 | $<50$ | <2.5 | <0.5 | <0.5 | $<0.5$ | <0.5 |
| EA14 | 04/04/96 | 22.90 | 1.53 | 21.37 | NLPH | $<50$ | $<50$ | $<2.5$ | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| EA14 | 07/15/96 | 22.90 | 3.00 | 19.90 | NLPH | 85d | $<50$ | $<2.5$ | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| EA14 | 10/21/96 | 22.90 | 3.54 | 19.36 | NLPH | 58d | $<50$ | $<2.5$ | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| EA14 | 01/07/97 | 22.90 | 1.41 | 21.49 | NLPH | <50 | $<50$ | $<2.5$ | $<0.5$ | <0.5 | $<0.5$ | <0.5 |
| EA14 | 04/28/97 | 22.90 | 2.98 | 19.92 | NLPH | <50 | $<50$ | $<2.5$ | $<0.5$ | <0.5 | <0.5 | <0.5 |
| EA14 | 07/22/97 | 22.90 | 3.69 | 19.21 | NLPH | $<50$ | $<50$ | $<2.5$ | $<0.5$ | <0.5 | $<0.5$ | $<0.5$ |
| EA14 | 10/14/97 | 22.90 | 2.02 | 20.88 | NLPH | $<50$ | $<50$ | $<2.5$ | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| EA14 | 01/13/98 | 22.90 | 0.90 | 22.00 | NLPH | $<50$ | $<50$ | 6.0 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| EA14 | 04/14/98 | 22.90 | 1.67 | 21.23 | NLPH | <50 | $<50$ | $<2.5$ | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| EA14 | 07/14/98 | 22.90 | 1.98 | 20.92 | NLPH | <50 | $<50$ | $<2.5$ | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| EA14 | 10/13/98 | 22.90 | 2.81 | 20.09 | NLPH | <50 | $<50$ | $<2.5$ | <0.5 | $<0.5$ | $<0.5$ | $<0.5$ |
| EA14 | 01/19/99 | 22.90 | 1.05 | 21.85 | NLPH | <50 | $<50$ | <2.5 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| EA14 | 06/24/99 | 22.90 | 2.00 | 20.90 | NLPH | 57.1 | $<50$ | 4.73 | 2.46 | $<0.5$ | $<0.5$ | 0.798 |
| EA14 | 09/21/99 | 22.90 | 1.69 | 21.21 | NLPH | <50 | $<50$ | $<2.5$ | $<0.5$ | <0.5 | <0.5 | $<0.5$ |
| EA14 | 12/30/99 | 22.90 | 1.63 | 21.27 | NLPH | <52 | $<50$ | <2 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| EA14 | 03/22/00 | 22.90 | 2.19 | 20.71 | NLPH | <55 | $<50$ | 5.5 | $<0.5$ | <0.5 | $<0.5$ | $<0.5$ |
| EA14 | April-2000 | 22.90 | Property transferred from Exxon Mobil to Valero. |  |  |  |  |  |  |  |  |  |
| EA14 | 06/15/00 | 22.90 | 1.89 | 21.01 | NLPH | <50 | $<50$ | 3.8 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| EA14 | 09/27/00 | 22.90 | 2.35 | 20.55 | NLPH | $<51$ | $<50$ | <2 | 0.58 | <0.5 | $<0.5$ | 1.35 |
| EA14 | 12/28/00 | 22.90 | 3.06 | 19.84 | NLPH | $<501$ | $<50$ | 2.4 | <0.5 | <0.5 | $<0.5$ | <0.5 |
| EA14 | 03/27/01 | 22.90 | 3.03 | 19.87 | NLPH | $<501$ | $<50$ | 19.0 | 1.2 | $<0.5$ | $<0.5$ | <0.5 |
| EA14 | May-2001 | 22.90 | Property transferred from Valero to Petroleum Sales Inc. |  |  |  |  |  |  |  |  |  |
| EA14 | 06/26/01 | 22.90 | 3.31 | 19.59 | NLPH | <50 | $<50$ | <2 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| EA14 | 09/25/01 | 22.90 | 2.90 | 20.00 | NLPH | $<50$ | $<50$ | <2 | 1.2 | 1.7 | 1.9 | 6.8 |
| EA14 | Nov-2001 | 25.53 | Well surveyed in compliance with AB 2886 requirements. |  |  |  |  |  |  |  |  |  |


| $\begin{gathered} \text { Well } \\ \text { ID } \\ \hline \end{gathered}$ | $\begin{aligned} & \text { Sampling } \\ & \text { Date } \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { TOC } \\ & \text { (feet) } \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { DTW } \\ & \text { (feet) } \end{aligned}$ | $\begin{gathered} \text { GW Elev. } \\ \text { (feet) } \\ \hline \end{gathered}$ | SUBJ | $\begin{aligned} & \text { TPHd } \\ & (\mu \mathrm{g} / \mathrm{L}) \\ & \hline \end{aligned}$ | $\begin{aligned} & \begin{array}{l} \text { TPHg } \\ (\mu \mathrm{g} / \mathrm{L}) \end{array} \end{aligned}$ | $\begin{aligned} & \hline \text { MTBE } \\ & (\mu \mathrm{g} / \mathrm{L}) \\ & \hline \end{aligned}$ | $\begin{gathered} B \\ (\mu \mathrm{~g} / \mathrm{L}) \\ \hline \end{gathered}$ | $\begin{gathered} \top \\ (\mu \mathrm{g} / \mathrm{L}) \\ \hline \end{gathered}$ | $\begin{gathered} E \\ (\mu \mathrm{~g} / \mathrm{L}) \end{gathered}$ | $\begin{gathered} X \\ (\mu \mathrm{~g} / \mathrm{L}) \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| EA14 | 12/28/01 | 25.53 | 1.63 | 23.90 | NLPH | <100 | <100 | 4.70 | <1.00 | <1.00 | <1.00 | <1.00 |
| EA14 | 03/28/02 | 25.53 | 0.82 | 24.71 | NLPH | <50.0 | <50.0 | 55.6 | <0.50 | <0.50 | $<0.50$ | <0.50 |
| EA14 | 06/26/02 | 25.53 | 2.82 | 22.71 | NLPH | <50 | <50 | 1.20 | 0.70 | <0.50 | $<0.50$ | <0.50 |
| EA14 | 09/30/02 | 25.53 | 6.69 | 18.84 | NLPH | --- | --- | --- | --- | --- | --- | --- |
| EA14 | 10/14/02 | 25.53 | 5.20 | 20.33 | NLPH | $<50$ | <50.0 | $<0.50$ | <0.50 | <0.50 | <0.50 | $<0.50$ |
| EA14 | 12/27/02 | 25.53 | 1.73 | 23.80 | NLPH | <50 | <50.0 | <0.50 | <0.50 | <0.50 | $<0.50$ | <0.50 |
| EA14 | 03/20/03 | 25.53 | 1.27 | 24.26 | NLPH | <50 | <50.0 | 1.40 | <0.50 | <0.50 | <0.50 | <0.50 |
| EA14 | 05/23/03 | 25.53 | 0.60 | 24.93 | NLPH | <50 | <50.0 | <0.50 | 2.30 | <0.50 | <0.50 | <0.50 |
| EA14 | 08/01/03 | 25.53 | 1.76 | 23.77 | NLPH | <50 | <50.0 | 1.20 | 7.50 | 0.60 | 1.10 | 0.90 |
| EA14 | 10/17/03 | 25.53 | 2.59 | 22.94 | NLPH | <50 | <50.0 | 1.30 | 3.20 | $<0.50$ | $<0.50$ | $<0.50$ |
| EA14 | 01/23/04 | 25.53 | 3.24 | 22.29 | NLPH | <50 | <50.0 | 1.10 | <0.50 | $<0.50$ | $<0.50$ | $<0.50$ |
| EA14 | 05/27/04 j | 25.53 | --- | --- | --- | --- | , |  | --- | --- | --- | . 5 |
| EA14 | 08/27/04 | 25.53 | 3.25 | 22.28 | NLPH | g | <50.0 | <0.50 | <0.50 | <0.50 | $<0.50$ | 0.60 |
| EA14 | 12/01/04 | 25.53 | 1.21 | 24.32 | NLPH | <50 | <50.0 | <0.50 | <0.50 | $<0.50$ | 0.80 | 2.00 |
| EA14 | 03/03/05 | 25.53 | 2.07 | 23.46 | NLPH | 61 b | <50.0 | <0.50 | <0.50 | <0.50 | $<0.50$ | <0.50 |
| EA14 | 06/23/05 | 25.53 | 2.96 | 22.57 | NLPH | $<50$ | <100 | <0.50 | <0.50 | <0.50 | $<0.50$ | <0.50 |
| EA14 | 09/22/05 | 25.53 | 2.90 | 22.63 | NLPH | <50.0 | <50.0 | <0.500 | <0.500 | <0.500 | <0.500 | 0.560 |
| EA14 | 12/21/05 | 25.53 | 1.20 | 24.33 | NLPH | <54.1 | < 50.0 | $<0.500$ | $<0.500$ | 1.05 | 0.840 | 1.45 |
| EA14 | 03/22/06 | 25.53 | 1.03 | 24.50 | NLPH | <47 | <50 | <0.50 | <0.50 | $<0.50$ | $<0.50$ | 0.75 |
| EA14 | 06/13/06 | 25.53 | 2.69 | 22.84 | NLPH | <47 | <50 | $<0.50$ | <0.50 | $<0.50$ | $<0.50$ | 0.62 |
| EA14 | 09/22/06 | 25.53 | 3.78 | 21.75 | NLPH | <47 | <50.0 | $<0.500$ | <0.500 | <0.500 | <0.500 | $<0.500$ |
| EA14 | 12/21/06 | 25.53 | 1.77 | 23.76 | NLPH | <47 | <50.0 | $<0.500$ | <0.500 | <0.500 | <0.500 | <0.500 |
| EA14 | 03/20/07 | 25.53 | 3.49 | 22.04 | NLPH | $<50$ | <50 | <0.50 | <0.50 | $<0.50$ | $<0.50$ | <0.50 |
| EA14 | 6/11/2007 | 25.53 | 3.98 | 21.55 | NLPH | <50 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| EA14 | 08/30/07 | 25.53 | 2.94 | 22.59 | NLPH | --- | -- | --- | --- | - |  |  |
| EA14 | 12/11/07 | 25.53 | 1.83 | 23.70 | NLPH | --- | -. | --- | -- | --- | -- | --- |
| EA14 | 03/19/08 | 25.53 | 1.20 | 24.33 | NLPH | --- | --- | --- | -- | -- | --- | --- |
| EA14 | 06/10/08 | 25.53 | 3.15 | 22.38 | NLPH | $<50$ | $<50$ | <0.50 | $<0.50$ | $<0.50$ | <0.50 | <0.50 |
| EA15 | 06/24/91 | --- | --- | --- | -- | 400 | $<50$ | -- | <0.5 | <0.5 | <0.5 | <1.5 |
| EA15 | 06/28/91 | 23.94 | 5.71 | 18.23 | NLPH | -- | --- | -- | --- | --- | --- | --- |
| EA15 | 10/03/91 | 23.94 | 6.57 | 17.37 | NLPH | 170 | $<50$ | -- | $<0.5$ | <0.5 | $<0.5$ | $<0.5$ |
| EA15 | 01/23/92 | 23.94 | 4.07 | 19.87 | NLPH | 560 | $<50$ | --- | 0.6 | $<0.5$ | $<0.5$ | $<0.5$ |
| EA15 | 04/28/92 | 23.94 | 3.65 | 20.29 | NLPH | 380 | <50 | --- | $<0.5$ | $<0.5$ | <0.5 | <0.5 |
| EA15 | 07/23/92 | 23.94 | 5.63 | 18.31 | NLPH | 380 | <50 | -- | <0.5 | <0.5 | <0.5 | $<0.5$ |
| EA15 | 10/22/92 | 23.94 | 6.38 | 17.56 | NLPH | 420 | <50 | -- | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| EA15 | 01/25/93 | 23.94 | 2.08 | 21.86 | NLPH | 180 | $<50$ | --- | $<0.5$ | <0.5 | $<0.5$ | $<0.5$ |
| EA15 | 04/13/93 | 23.94 | 6.72 | 17.22 | NLPH | 80 | $<50$ | -- | <0.5 | 1.4 | <0.5 | $<0.5$ |
| EA15 | 07/02/93 | 23.94 | 7.25 | 16.69 | NLPH | 90 | <50 | --- | <0.5 | <0.5 | <0.5 | <0.5 |
| EA15 | 10/12/93 | 23.94 | 7.29 | 16.65 | NLPH | 140 | <50 | --- | $<0.5$ | <0.5 | <0.5 | 1.1 |
| EA15 | 01/13/94 | 23.94 | 6.06 | 17.88 | NLPH | 410 | $<50$ | - | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| EA15 | 04/04/94 | 23.94 | 6.10 | 17.84 | NLPH | 60 | <50 | -- | <0.5 | <0.5 | <0.5 | <0.5 |
| EA15 | 07/14/94 | 23.94 | 6.90 | 17.04 | NLPH | 130 | <50 | -- | <0.5 | <0.5 | <0.5 | <0.5 |
| EA15 | 10/12/94 | 23.94 | 7.01 | 16.93 | NLPH | <50 | <50 | -- | $<0.5$ | <0.5 | <0.5 | <0.5 |
| EA15 | 01/09/95 | 23.94 | 3.16 | 20.78 | NLPH | <50 | <50 | -- | <0.5 | <0.5 | <0.5 | $<0.5$ |
| EA15 | 04/12/95 | 23.94 | 3.23 | 20.71 | NLPH | 110b | <50 | -- | <0.5 | <0.5 | <0.5 | $<0.5$ |


| TABLE 2 <br> CUMULATIVE GROUNDWATER SAMPLING DATA <br> Valero Station 13781 930 Del Presidio Boulevard San Rafael, California (Page 25 of 29) |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{gathered} \hline \text { Well } \\ \text { ID } \\ \hline \end{gathered}$ | $\begin{aligned} & \hline \text { Sampling } \\ & \text { Date } \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { TOC } \\ & \text { (feet) } \\ & \hline \end{aligned}$ | $\begin{aligned} & \begin{array}{l} \text { DTW } \\ \text { (feet) } \end{array} \\ & \hline \end{aligned}$ | GW Elev. (feet) | SUBJ | $\begin{aligned} & \text { TPHd } \\ & (\mu \mathrm{g} / \mathrm{L}) \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \mathrm{TPHg} \\ & (\mu \mathrm{~g} / \mathrm{L}) \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { MTBE } \\ & (\mu \mathrm{g} / \mathrm{L}) \\ & \hline \end{aligned}$ | $\begin{gathered} \mathrm{B} \\ (\mathrm{\mu g} / \mathrm{L}) \end{gathered}$ | $\begin{gathered} \mathrm{T} \\ (\mu \mathrm{~g} / \mathrm{L}) \\ \hline \end{gathered}$ | $\begin{gathered} E \\ (\mu \mathrm{~g} / \mathrm{L}) \end{gathered}$ | $\begin{gathered} X \\ (\mu \mathrm{~g} / \mathrm{L}) \end{gathered}$ |
| EA15 | 07/10/95 | 23.94 | 7.13 | 16.81 | NLPH | 91b | $<50$ | 3.6 | <0.5 | <0.5 | <0.5 | <0.5 |
| EA15 | 10/13/95 | 23.94 | 7.92 | 16.02 | NLPH | 52 | <50 | <2.5 | $<0.5$ | <0.5 | <0.5 | <0.5 |
| EA15 | 01/17/96 | 23.94 | 2.04 | 21.90 | NLPH | 110 | $<50$ | 6.9 | <0.5 | <0.5 | <0.5 | <0.5 |
| EA15 | 04/04/96 | 23.94 | 3.63 | 20.31 | NLPH | 110 | $<50$ | 2.9 | <0.5 | <0.5 | <0.5 | $<0.5$ |
| EA15 | 07/15/96 | 23.94 | 1.50 | 22.44 | NLPH | 170d | $<50$ | 4.1 | <0.5 | <0.5 | <0.5 | <0.5 |
| EA15 | 10/21/96 | 23.94 | 2.93 | 21.01 | NLPH | 66d | $<50$ | <2.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| EA15 | 01/07/97 | 23.94 | 3.02 | 20.92 | NLPH | 61d | $<50$ | 2.8 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| EA15 | 04/28/97 | 23.94 | 1.96 | 21.98 | NLPH | $<50$ | $<50$ | $<2.5$ | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| EA15 | 07/22/97 | 23.94 | 3.52 | 20.42 | NLPH | <50 | $<50$ | 34 | <0.5 | <0.5 | <0.5 | $<0.5$ |
| EA15 | 10114/97 | 23.94 | 2.83 | 21.11 | NLPH | 110d | <50 | 11 | <0.5 | <0.5 | $<0.5$ | $<0.5$ |
| EA15 | 01/13/98 | 23.94 | 1.98 | 21.96 | NLPH | 160d | <50 | 77 | <0.5 | <0.5 | <0.5 | <0.5 |
| EA15 | 04/14/98 | 23.94 | 2.90 | 21.04 | NLPH | 120d | <50 | 280 | $<0.5$ | $<0.5$ | <0.5 | $<0.5$ |
| EA15 | 07/14/98 | 23.94 | 4.09 | 19.85 | NLPH | 100d | <50 | 300 | $<0.5$ | $<0.5$ | <0.5 | $<0.5$ |
| EA15 | 10/13/98 | 23.94 | 4.56 | 19.38 | NLPH | 78d | <50 | 42 | <0.5 | $<0.5$ | <0.5 | <0.5 |
| EA15 | 01/19/99 | 23.94 | 4.03 | 19.91 | NLPH | 86 | $<50$ | 28 | <0.5 | <0.5 | <0.5 | $<0.5$ |
| EA15 | 06/24/99 | 23.94 | 4.71 | 19.23 | NLPH | 91.7 | <50 | 18.9 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| EA15 | 09/21/99 | 23.94 | 5.18 | 18.76 | NLPH | 99.0 d | 78.5 i | 64.6 | 1.09 | 7.10 | 1.32 | 9.20 |
| EA15 | 12/30/99 | 23.94 | 5.11 | 18.83 | NLPH | 90 | <50 | 220 | <0.5 | $<0.5$ | <0.5 | <0.5 |
| EA15 | 03/22/00 | 23.94 | 3.26 | 20.68 | NLPH | 71 | <50 | 440 | 3.8 | <0.5 | <0.5 | <0.5 |
| EA15 | April-2000 | 23.94 | Property transferred from Exxon Mobil to Valero. |  |  |  |  |  |  |  |  |  |
| EA15 | 06/15/00 | 23.94 | 4.59 | 19.35 | NLPH | <50 | <50 | 380 | $<0.5$ | $<0.5$ | $<0.5$ | <0.5 |
| EA15 | 09/27/00 | 23.94 | 4.91 | 19.03 | NLPH | 150 | 51 | 2,500 | <0.5 | <0.5 | <0.5 | 0.52 |
| EA15 | 12/28/00 | 23.94 | 3.66 | 20.28 | NLPH | 1801 | $<50$ | 390 | $<0.5$ | $<0.5$ | <0.5 | <0.5 |
| EA15 | 03/21/01 | 23.94 | 3.11 | 20.83 | NLPH | 741 | <50 | 150 | <0.5 | <0.5 | <0.5 | <0.5 |
| EA15 | May-2001 | 23.94 | Property transferred from Valero to Petroleum Sales Inc. |  |  |  |  |  |  |  |  |  |
| EA15 | 06/26/01 | 23.94 | 5.07 | 18.87 | NLPH | <50 | $<50$ | 4,000 | $<0.5$ | $<0.5$ | $<0.5$ | <0.5 |
| EA15 | 09/25/01 | 23.94 | 5.19 | 18.75 | NLPH | 140 | $<50$ | 3,600 | $<0.5$ | $<0.5$ | <0.5 | <0.5 |
| EA15 | Nov-2001 | 26.55 | Well surveyed in compliance with AB 2886 requirements. |  |  |  |  |  |  |  |  |  |
| EA15 | 12/28/01 | 26.55 | 1.95 | 24.60 | NLPH | 112 | 1,620 | 2,360 | <1.00 | <1.00 | <1.00 | $<1.00$ |
| EA15 | 03/28/02 | 26.55 | 2.93 | 23.62 | NLPH | <50.0 | 371 | 420 | <0.50 | <0.50 | <0.50 | 0.80 |
| EA15 | 06/26/02 | 26.55 | 5.07 | 21.48 | NLPH | $<50$ | 5,380 | 10,900 | <0.50 | $<0.50$ | $<0.50$ | <0.50 |
| EA15 | 09/30/02 | 26.55 | 5.31 | 21.24 | NLPH | --- | --- | -- | -- | --- | --- | --- |
| EA15 | 10/14/02 | 26.55 | 5.32 | 21.23 | NLPH | 106 | 2,820 | 1,940 | 196 | 2.70 | 2.50 | 10.3 |
| EA15 | 12/27/02 | 26.55 | 1.51 | 25.04 | NLPH | 51 | 120 | 23.8 | <0.50 | <0.50 | <0.50 | <0.50 |
| EA15 | 03/20/03 | 26.55 | 2.52 | 24.03 | NLPH | $<50$ | 164 | 8.20 | $<0.50$ | $<0.50$ | <0.50 | <0.50 |
| EA15 | 05/23/03 | 26.55 | 3.67 | 22.88 | NLPH | 70 | 63.5 | 5.20 | $<0.50$ | $<0.50$ | $<0.50$ | <0.50 |
| EA15 | 08/01/03 | 26.55 | 4.70 | 21.85 | NLPH | 64 | 90.4 | 32.0 | <0.50 | <0.50 | $<0.50$ | <0.50 |
| EA15 | 10117/03 | 26.55 | 5.31 | 21.24 | NLPH | 72 | 83.9 | 7.90 | <0.50 | $<0.50$ | $<0.50$ | <0.50 |
| EA15 | 01/23/04 | 26.55 | 4.05 | 22.50 | NLPH | 57 | 50.1 | 8.20 | <0.50 | <0.50 | <0.50 | <0.50 |
| EA15 | 05/27/04 | 26.55 | 4.24 | 22.31 | NLPH | 106 | 70.3 | 1.90 | <0.50 | <0.50 | <0.50 | <0.50 |
| EA15 | 08/27/04 | 26.55 | 6.56 | 19.99 | NLPH | 141q | <50.0 | 1.40 | <0.50 | <0.50 | <0.50 | <0.50 |
| EA15 | 12/01/04 | 26.55 | 4.47 | 22.08 | NLPH | 107b | 74.5 | 2.60 | $<0.50$ | $<0.50$ | $<0.50$ | $<0.50$ |
| EA15 | 03/03/05 | 26.55 | 2.13 | 24.42 | NLPH | 230 b | 73.7 | 2.5 | <0.50 | <0.50 | <0.50 | <0.50 |
| EA15 | 06/23/05 | 26.55 | 4.91 | 21.64 | NLPH | 308b | <100 | 2.90 | <0.50 | <0.50 | <0.50 | <0.50 |
| EA15 | 09/22/05 | 26.55 | 4.97 | 21.58 | NLPH | 95.3 b | <50.0 | 0.680 | $<0.500$ | $<0.500$ | <0.500 | $<0.500$ |
| EA15 | 12/21/05 | 26.55 | 1.73 | 24.82 | NLPH | 357b | 85.6 | 2.50 | $<0.500$ | <0.500 | $<0.500$ | $<0.500$ |


| Well <br> ID | Sampling Date | $\begin{aligned} & \text { TOC } \\ & \text { (feet) } \end{aligned}$ | $\begin{aligned} & \begin{array}{l} \text { DTW } \\ \text { (feet) } \end{array} \end{aligned}$ | GW Elev. (feet) | SUBJ | $\begin{aligned} & \begin{array}{l} \text { TPHd } \\ (\mu \mathrm{g} / \mathrm{L}) \end{array} \\ & \hline \end{aligned}$ | $\begin{array}{r} \mathrm{TPHg} \\ (\mu \mathrm{~g} / \mathrm{L}) \end{array}$ | MTBE <br> ( $\mu \mathrm{g} / \mathrm{L}$ ) | $\begin{gathered} \mathrm{B} \\ (\mu \mathrm{~g} / \mathrm{L}) \end{gathered}$ | $\begin{gathered} \mathrm{T} \\ (\mu \mathrm{~g} / \mathrm{L}) \end{gathered}$ | $\begin{gathered} \mathrm{E} \\ (\mu \mathrm{~g} / \mathrm{L}) \end{gathered}$ | $\begin{gathered} X \\ (\mu \mathrm{~g} / \mathrm{L}) \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| EA15 | 03/22/06 | 26.55 | 3.67 | 22.88 | NLPH | <47 | 72 | 1.4 | $<0.50$ | $<0.50$ | <0.50 | $<0.50$ |
| EA15 | 06/13/06 | 26.55 | 4.93 | 21.62 | NLPH | $<47$ | $<50$ | 0.50 | $<0.50$ | <0.50 | <0.50 | <0.50 |
| EA15 | 09/22/06 | 26.55 | 5.78 | 20.77 | NLPH | $<47$ | $<50.0$ | 3.67 | $<0.500$ | <0.500 | <0.500 | $<0.500$ |
| EA15 | 12/21/06 | 26.55 | 3.73 | 22.82 | NLPH | $<47$ | $<50.0$ | 1.42 | $<0.500$ | $<0.500$ | $<0.500$ | <0.500 |
| EA15 | 03/20/07 | 26.55 | 4.81 | 21.74 | NLPH | <50 | <50 | 1.4 | $<0.50$ | <0.50 | <0.50 | <0.50 |
| EA15 | 6/11/2007 | 26.55 | 5.37 | 21.18 | NLPH | $<50$ | <50 | 2.1 | $<0.50$ | $<0.50$ | $<0.50$ | $<0.50$ |
| EA15 | 08/30/07 | 26.55 | 6.36 | 20.19 | NLPH | 81 | $<50$ | 4.5 | $<0.50$ | $<0.50$ | $<0.50$ | $<0.50$ |
| EA15 | 12/11/07 | 26.55 | 4.30 | 22.25 | NLPH | 91y | $<50$ | 1.5 | <0.50 | $<0.50$ | $<0.50$ | $<0.50$ |
| EA15 | 03/19/08 | 26.55 | 3.67 | 22.88 | NLPH | $<50$ | $<50$ | 0.74 | $<0.50$ | $<0.50$ | <0.50 | <0.50 |
| EA15 | 06/10/08 | 26.55 | 5.55 | 21.00 | NLPH | 180 | <50 | 0.98 | $<0.50$ | $<0.50$ | $<0.50$ | $<0.50$ |
| EA16 | 04/12/95 | 24.80 | 5.35 | 19.45 | NLPH | 230b | $<50$ | --- | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| EA16 | 07/10/95 | 24.80 | 6.81 | 17.99 | NLPH | 210b | <50 | 60 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| EA16 | 10/13/95 | 24.80 | 8.60 | 16.20 | NLPH | 140 | $<50$ | 98 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| EA16 | 01/17/96 | 24.80 | 7.53 | 17.27 | NLPH | 180 | <50 | 58 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| EA16 | 04/04/96 | 24.80 | 5.84 | 18.96 | NLPH | 370 | <50 | 27 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| EA16 | 07/15/96 | 24.80 | 7.00 | 17.80 | NLPH | 320d | $<50$ | 45 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| EA16 | 10/21/96 | 24.80 | 9.15 | 15.65 | NLPH | 320d | <50 | 56 | $<0.5$ | $<0.5$ | $<0.5$ | <0.5 |
| EA16 | 01/07/97 | 24.80 | 6.30 | 18.50 | NLPH | 160d | <50 | 91 | $<0.5$ | $<0.5$ | <0.5 | $<0.5$ |
| EA16 | 04/28/97 | 24.80 | 6.60 | 18.20 | NLPH | 150d | < 50 | 70 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| EA16 | 07/22/97 | 24.80 | 7.75 | 17.05 | NLPH | 63d | $<50$ | 71 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| EA16 | 10/14/97 | 24.80 | 9.17 | 15.63 | NLPH | 370 d | $<50$ | 54 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| EA16 | 01/13/98 | 24.80 | 5.36 | 19.44 | NLPH | 340d | <50 | 67 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| EA16 | 04/14/98 | 24.80 | 5.25 | 19.55 | NLPH | 230d | $<50$ | 73 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| EA16 | 07/14/98 | 24.80 | 6.00 | 18.80 | NLPH | 230d | $<50$ | 95 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| EA16 | 10/13/98 | 24.80 | 9.09 | 15.71 | NLPH | 260d | $<50$ | 80 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| EA16 | 01/19/99 | 24.80 | 8.20 | 16.60 | NLPH | 280 | $<50$ | 67 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| EA16 | 06/24/99 | 24.80 | 6.45 | 18.35 | NLPH | 432 | $<50$ | 61.0 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| EA16 | 09/21/99 | 24.80 | 8.60 | 16.20 | NLPH | 279d | $<50$ | 78.0 | 0.630 | 3.50 | 0.780 | 4.30 |
| EA16 | 12/30/99 | 24.80 | 9.11 | 15.69 | NLPH | 300 | $<50$ | 130 | <0.5 | <0.5 | $<0.5$ | $<0.5$ |
| EA16 | 03/22/00 | 24.80 | 6.91 | 17.89 | NLPH | <53 | $<50$ | 130 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| EA16 | April-2000 | 24.80 | Property transferred from Exxon Mobil to Valero. |  |  |  |  |  |  |  |  |  |
| EA16 | 06/15/00 | 24.80 | 6.29 | 18.51 | NLPH | 77 | $<50$ | 160 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| EA16 | 09/27/00 | 24.80 | 7.78 | 17.02 | NLPH | 150 | $<50$ | 170 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| EA16 | 12/28/00 | 24.80 | 8.08 | 16.72 | NLPH | 1801 | $<50$ | 190 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| EA16 | 03/27/01 | 24.80 | 7.13 | 17.67 | NLPH | 921 | $<50$ | 220 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| EA16 | May-2001 | 24.80 | Property transferred from Valero to Petroleum Sales Inc. |  |  |  |  |  |  |  |  |  |
| EA16 | 06/26/01 | 24.80 | 8.03 | 16.77 | NLPH | 51 | $<50$ | 240 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| EA16 | 09/25/01 | 24.80 | 9.67 | 15.13 | NLPH | $<50$ | $<50$ | 210 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| EA16 | Nov-2001 | 24.80 | Well surveyed in compliance with AB 2886 requirements. |  |  |  |  |  |  |  |  |  |
| EA16 | 12/28/01 | 24.80 | 8.82 | 15.98 | NLPH | <100 | 278 | 260 | $<1.00$ | $<1.00$ | $<1.00$ | <1.00 |
| EA16 | 03/28/02 | 24.80 | 5.90 | 18.90 | NLPH | $<50.0$ | 229 | 264 | $<0.50$ | $<0.50$ | <0.50 | $<0.50$ |
| EA16 | 06/26/02 | 24.80 | 6.69 | 18.11 | NLPH | $<50$ | 115 | 255 | <0.50 | $<0.50$ | $<0.50$ | $<0.50$ |
| EA16 | 09/30/02 | 24.80 | 10.38 | 14.42 | NLPH | --- | --- | --- | --- | --- | --- | --- |
| EA16 | 10/14/02 | 24.80 | 9.91 | 14.89 | NLPH | $<50$ | 237 | 298 | $<0.50$ | $<0.50$ | <0.50 | $<0.50$ |
| EA16 | 12/27/02 | 24.80 | 6.19 | 18.61 | NLPH | $<50$ | 279 | 398 | <0.50 | <0.50 | <0.50 | <0.50 |


| $\begin{gathered} \text { Well } \\ \text { ID } \\ \hline \end{gathered}$ | $\begin{aligned} & \text { Sampling } \\ & \text { Date } \end{aligned}$ | $\begin{aligned} & \text { TOC } \\ & \text { (feet) } \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { DTW } \\ & \text { (feet) } \\ & \hline \end{aligned}$ | GW Elev. (feet) | SUBJ | $\begin{aligned} & \hline \text { TPHd } \\ & (\mu \mathrm{g} / \mathrm{L}) \\ & \hline \end{aligned}$ | $\begin{aligned} & \begin{array}{l} \text { TPHg } \\ (\mu \mathrm{g} / \mathrm{L}) \\ \hline \end{array} \end{aligned}$ | $\begin{aligned} & \text { MTBE } \\ & (\mu \mathrm{g} / \mathrm{L}) \end{aligned}$ | $\begin{gathered} \mathrm{B} \\ (\mu \mathrm{~g} / \mathrm{L}) \\ \hline \end{gathered}$ | $\begin{array}{r} \top \\ (\mu \mathrm{g} / \mathrm{L}) \\ \hline \end{array}$ | $\begin{gathered} \mathrm{E} \\ (\mu \mathrm{~g} / \mathrm{L}) \\ \hline \end{gathered}$ | $\begin{gathered} X \\ (\mu \mathrm{~g} / \mathrm{L}) \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| EA16 | 03/20/03 | 24.80 | 5.51 | 19.29 | NLPH | <50 | 324 | 8.20 | $<0.50$ | <0.50 | $<0.50$ | <0.50 |
| EA16 | 05/23/03 | 24.80 | 6.26 | 18.54 | NLPH | 100 | 323 | 334 | $<0.50$ | <0.50 | <0.50 | $<0.50$ |
| EA16 | 08/01/03 | 24.80 | 8.52 | 16.28 | NLPH | <50 | 322 | 290 | $<0.50$ | <0.50 | <0.50 | $<0.50$ |
| EA16 | 10/17/03 | 24.80 | 9.68 | 15.12 | NLPH | 61 | 298 | 302 | <0.50 | $<0.50$ | $<0.50$ | <0.50 |
| EA16 | 01/23/04 | 24.80 | 5.45 | 19.35 | NLPH | 59 | 191 | 296 | $<0.50$ | $<0.50$ | <0.50 | <0.50 |
| EA16 | 05/27/04 | 24.80 | 6.77 | 18.03 | NLPH | 66 | 190 | 190 | <0.50 | <0.50 | <0.50 | <0.50 |
| EA16 | 08/27/04 | 24.80 | 7.22 | 17.58 | NLPH | n | 516 | 55.4 | 4.20 | $<0.50$ | <0.50 | <0.50 |
| EA16 | 12/01/04 | 24.80 | 8.12 | 16.68 | NLPH | 109b | 105 | 108 | $<0.50$ | $<0.50$ | $<0.50$ | <0.50 |
| EA16 | 03/03/05 | 24.80 | 5.75 | 19.05 | NLPH | 149b | 74.9 | 75.6 | $<0.50$ | <0.50 | <0.50 | $<0.50$ |
| EA16 | 06/23/05 | 24.80 | 5.60 | 19.20 | NLPH | 135b | <100 | 82.0 | <0.50 | $<0.50$ | <0.50 | <0.50 |
| EA16 | 09/22/05 | 24.80 | 7.92 | 16.88 | NLPH | < 50.0 | <50.0 | 64.5 | <0.500 | <0.500 | $<0.500$ | <0.500 |
| EA16 | 12/21/05 | 24.80 | 8.37 | 16.43 | NLPH | 166b | <50.0 | 39.0 | <0.500 | $<0.500$ | $<0.500$ | <0.500 |
| EA16 | 03/22/06 | 24.80 | 5.01 | 19.79 | NLPH | <47 | 57 | 57 | $<0.50$ | $<0.50$ | $<0.50$ | $<0.50$ |
| EA16 | 06/13/06 | 24.80 | 5.90 | 18.90 | NLPH | $<47$ | 664 | 56 | <0.50 | $<0.50$ | $<0.50$ | <0.50 |
| EA16 | 09/22/06 | 24.80 | 7.46 | 17.34 | NLPH | <47 | <50.0 | 52.9 | <0.500 | <0.500 | <0.500 | <0.500 |
| EA16 | 12/21/06 | 24.80 | 7.50 | 17.30 | NLPH | $<47$ | <50.0 | 35.7 | <0.500 | <0.500 | <0.500 | <0.500 |
| EA16 | 03/20/07 | 24.80 | 5.75 | 19.05 | NLPH | 74 | <50 | 30 | $<0.50$ | $<0.50$ | $<0.50$ | <0.50 |
| EA16 | 6/11/2007 | 24.80 | 6.85 | 17.95 | NLPH | <50 | <50 | 33 | $<0.50$ | $<0.50$ | <0.50 | <0.50 |
| EA16 | 08/29/07 | 24.80 | 8.62 | 16.18 | NLPH | 91 | $<50$ | 24 | <0.50 | <0.50 | <0.50 | <0.50 |
| EA16 | 12/11/07 | 24.80 | 8.00 | 16.80 | NLPH | 69 y | <50 | 21 | <0.50 | $<0.50$ | <0.50 | $<0.50$ |
| EA16 | 03/19/08 | 24.80 | 5.79 | 19.01 | NLPH | <50 | $<50$ | 7.7 | <0.50 | $<0.50$ | $<0.50$ | $<0.50$ |
| EA16 | 06/10/08 | 24.80 | 6.96 | 17.84 | NLPH | <50 | <50 | 16 | $<0.50$ | $<0.50$ | $<0.50$ | <0.50 |
| RW1 | 01/13/94 | --- | --- | --- | -- | 390 | 220 | --- | 2.1 | $<0.5$ | 0.6 | 0.9 |
| RW1 | 04/04/94 | --- | 4.82 | --- | NLPH | 60 | 200 | --- | 87 | 2.6 | 2.7 | 1.6 |
| RW1 | 07/14/94 | --- | --- | --- | --- | 260 | 250 | --- | 16 | 0.9 | $<0.5$ | $<0.5$ |
| RW1 | 10/12/94 | --- | 5.75 | --- | NLPH | 59b | <50 | --- | <0.5 | <0.5 | <0.5 | <0.5 |
| RW1 | 01/09/95 | -- | --- | --- | --- | --- | --- | --- |  |  | --- |  |
| RW1 | 04/12/95 | --- | --- | --- | --- | --- | --- | --- | - | - | -- | -- |
| RW1 | 07/10/95 | --- | -- | -- | --- | 1,600b | $<50$ | 430 | 3.5 | $<0.5$ | $<0.5$ | $<0.5$ |
| RW1 | 10/13/95 | -- | 7.37 | --- | NLPH | 120 | <125 | 580 | $<1.2$ | $<1.2$ | $<1.2$ | <1.2 |
| RW1 | 01/17/96 | --- | --- | --- | N | -- | --- | -- | --- | -- | --- | --- |
| RW1 | 04/04/96 | -- | --- | --- | --- | 160 | <100 | 490 | 3.6 | 2.0 | 1.3 | 1.1 |
| RW1 | 07/15/96 | --- | 7.30 | --- | NLPH | 380d | 190 | 450 | 24 | 17 | 7.4 | 36 |
| RW1 | 10/21/96 | -- | 1.95 | --- | NLPH | 290d | 120 i | 300 | $<1.0$ | $<1.0$ | $<1.0$ | $<1.0$ |
| RW1 | 01/07/97 | --- | --- | --- | --- | 190d | <200 | 580 | 15 | 5.3 | 2.9 | 5.9 |
| RW1 | 04/28/97 t | --- | --- | --- | --- |  |  |  |  |  | --- | --- |
| RW1 | 07/22/97 t | -- | --- | --- | --- | -- | --- | --- | --- | -- | -- | --- |
| RW1 | 10/14/97 t | --- | --- | --- | --- | -- | --- | --- | --- | --- | --- | --- |
| RW1 | 01/13/98 t | -- | --- | --- | --- | --- | --- | --- | --- | -- | --- | --- |
| RW1 | 04/14/98 t | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| RW1 | 07/14/98 ${ }^{\text {j }}$ | --- | --- | --- | --- | -- | --- | --- | --- | --- | -- | --- |
| RW1 | 10/13/98 | $\cdots$ | -- | --- | --- | 210d | $<50$ | <2.5 | $<0.5$ | <0.5 | $<0.5$ | <0.5 |
| RW1 | 01/19/99 | --- | -- | --- | --- | --- | --- | --- | --- | --- | -- | -- |
| RW1 | 06/24/99 | --- | 1.80 | --- | NLPH | 199 | <50 | <2.5 | $<0.5$ | <0.5 | $<0.5$ | <0.5 |
| RW1 | 09/21/99 | --- | 2.21 | --- | NLPH | 228d | < 50 i | 6.30 | $<0.5$ | 1.20 | $<0.5$ | 2.47 |

TABLE 2 CUMULATIVE GROUNDWATER SAMPLING DATA Valero Station 13781
930 Del Presidio Boulevard San Rafael, California


| Well ID | Sampling Date | $\begin{aligned} & \text { TOC } \\ & \text { (feet) } \end{aligned}$ | $\begin{aligned} & \text { DTW } \\ & \text { (feet) } \end{aligned}$ | GW Elev. (feet) | SUBJ | $\begin{aligned} & \text { TPHd } \\ & (\mu \mathrm{g} / \mathrm{L}) \end{aligned}$ | $\begin{gathered} \mathrm{TPHg} \\ (\mu \mathrm{~g} / \mathrm{L}) \\ \hline \end{gathered}$ | $\begin{aligned} & \text { MTBE } \\ & (\mu \mathrm{g} / \mathrm{L}) \\ & \hline \end{aligned}$ | $\begin{gathered} B \\ (\mu g / L) \end{gathered}$ | $\begin{gathered} \mathrm{T} \\ (\mu \mathrm{~g} / \mathrm{L}) \end{gathered}$ | $\begin{gathered} \mathrm{E} \\ (\mu \mathrm{~g} / \mathrm{L}) \end{gathered}$ | $\begin{gathered} X \\ (\mu \mathrm{~g} / \mathrm{L}) \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| RW1 | 12/30/99 | --- | 2.21 | ) | NLPH | 180 | <50 | 96 | <0.5 | <0.5 | <0.5 | <0.5 |
| RW1 | 03/22/00 | --- | 9.67 | --- | NLPH | 200 | 65 | 37 | <0.5 | 8.2 | 2.3 | 13.5 |
| RW1 | April-2000 | --- | Property transferred from Exxon Mobil to Valero. |  |  |  |  |  |  |  |  |  |
| RW1 | 06/15/00 | --- | 1.42 |  | NLPH | 69 | $<50$ | 3.3 | $<0.5$ | <0.5 | $<0.5$ | <0.5 |
| RW1 | 09/27/00 | --- | 1.91 | -- | NLPH | 150 | $<50$ | <2 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| RW1 | 12/28/00 | --- | 0.79 | --- | NLPH | 3501 | <50 | 160 | $<0.5$ | $<0.5$ | $<0.5$ | $<0.5$ |
| RW1 | 03/27/01 | --- | 0.48 | --- | NLPH | 3101 | $<50$ | 91 | 4.1 | <0.5 | <0.5 | $<0.5$ |
| RW1 | May-2001 | --- | Property transferred from Valero to Petroleum Sales Inc. |  |  |  |  |  |  |  |  |  |
| RW1 | 06/26/01 | --- | 2.04 | --- | NLPH | 210 | $<50$ | 100 | 2.3 | $<0.5$ | $<0.5$ | $<0.5$ |
| RW1 | 09/25/01 | --- | Well no longer sampled. |  |  |  |  |  |  |  |  |  |

> Results of subjective evaluation. No liquid-phase hydrocarbons present in well. Top of well casing elevation; datum is mean sea level. Depth to water. Groundwater elevation; datum is mean sea level. Total petroleum hydrocarbons as diesel analyzed using EPA Method $5030 / 8015$ (modified) or 8015B. Total petroleum hydrocarbons as gasoline analyzed using EPA Method 5030/8015 (modified) or 8015B. Methyl tertiary butyl ether analyzed using EPA Method $8260 B ;$ prior to 03/28/02, analyzed using EPA Method 8021B. Tertiary butyl alcohol analyzed using EPA Method $8260 B$. Benzene, toluene, ethylbenzene, and total xylenes analyzed using EPA Method 8260B; prior to 10/14/02, analyzed using EPA Method 8021B. Ethanol analyzed using EPA Method $8260 B$. 1,2-dibromoethane analyzed using EPA Method 8260B. 1,2-dichloroethane analyzed using EPA Method 8260 B . Tertiary amyl methyl ether analyzed using EPA Method 8260 B . Ethyl tertiary butyl ether analyzed using EPA Method 8260 B . Di-isopropyl ether analyzed using EPA Method 8260 B . Micrograms per liter. Not Accessible. Not measured/Not sampled/Not analyzed. Less than the stated laboratory reporting limit. Top of casing cut; well requires resurveying. Sample chromatogram does not resemble the diesel standard pattern. Hydrocarbons greater than C22 were detected. Unidentified hydrocarbons ranging from C9-C24 present on the diesel sample chromatogram. Sample was lost due to laboratory accident. 0.1 inch removed from casing to improve fit of locking well cap. Well dry and/or insufficient water for gauging or sampling. Chromatogram pattern: weathered gasoline C6-C12. Unidentified hydrocarbons present or chromatogram pattern indicated weathered gasoline (C6-C12). Well inaccessible. Confirmatory value, calculated by EPA Method $8260 B$, for the sample with the highest value measured at the site by EPA Method 8020 . Diesel-range hydrocarbons reportedly detected in bailer blank or method blank; result is suspect. Analysis of Method Blank indicated presence of diesel range hydrocarbons; sample not reported. Sample container(s) broken; sample not analyzed.


ADDITIONAL CUMULATIVE GROUNDWATER SAMPLING DATA Valero Station 13781
930 Del Presidio Boulevard
San Rafael, California
(Page 1 of 11)

| $\begin{gathered} \hline \text { Well } \\ \text { ID } \end{gathered}$ | Sampling Date | $\begin{gathered} \text { EDB } \\ (\mu \mathrm{g} / \mathrm{L}) \\ \hline \end{gathered}$ | $\begin{gathered} 1,2-\mathrm{DCA} \\ (\mu \mathrm{~g} / \mathrm{L}) \\ \hline \end{gathered}$ | $\begin{aligned} & \text { TAME } \\ & (\mu \mathrm{g} / \mathrm{L}) \end{aligned}$ | $\begin{gathered} \text { TBA } \\ (\mu \mathrm{g} / \mathrm{L}) \\ \hline \end{gathered}$ | $\begin{aligned} & \hline \text { ETBE } \\ & (\mu \mathrm{g} / \mathrm{L}) \\ & \hline \end{aligned}$ | $\begin{gathered} \text { DIPE } \\ (\mu \mathrm{g} / \mathrm{L}) \\ \hline \end{gathered}$ | Ethanol ( $\mu \mathrm{g} / \mathrm{L}$ ) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| EA1 | 12/21/87-03/22/00 Not analyzed for these analytes. |  |  |  |  |  |  |  |
| EA1 | Property transferred from Exxon Mobil to Valero in April 2000. |  |  |  |  |  |  |  |
| EA1 | 06/15/00-03/27/01 Not analyzed for these analytes. |  |  |  |  |  |  |  |
| EA1 | Property transferred from Valero to Petroleum Sales Inc. in May 2001. |  |  |  |  |  |  |  |
| EA1 | 06/26/01-12/27/02 Not analyzed for these analytes. |  |  |  |  |  |  |  |
| EA1 | 03/20/03 | --- | --- | --- | 11,400 | --- | --- | --- |
| EA1 | 05/23/03 | --- | --- | --- | 37,400 | --- | --- | --- |
| EA1 | 08/01/03 | --- | --- | --- | 19,800 | --- | --- | --- |
| EA1 | 10/17/03 | --- | --- | --- | 16,000 | --- | --- | --- |
| EA1 | 01/23/04 | $<2.50$ | <2.50 | <2.50 | 55,000 | <2.50 | <2.50 | --- |
| EA1 | 05/27/04 | --- | --- | --- | 3,080 | --- | --. | < 50.0 |
| EA1 | 08/27/04 | $<0.50$ | $<0.50$ | $<0.50$ | 4,420 | $<0.50$ | $<0.50$ | $<50.0$ |
| EA1 | 12/01/04 | $<0.50$ | $<0.50$ | $<0.50$ | 11,800 | $<0.50$ | $<0.50$ | $<50.0$ |
| EA1 | 03/03/05 | $<0.50$ | $<0.50$ | $<0.50$ | 15,300 | $<0.50$ | $<0.50$ | <50.0 |
| EA1 | 06/23/05 | $<0.50$ | $<0.50$ | $<0.50$ | 14,400 | $<0.50$ | $<0.50$ | <50.0 |
| EA1 | 09/22/05 | $<0.500$ | $<0.500$ | $<0.500$ | 6,000 | $<0.500$ | $<0.500$ | $<50.0$ |
| EA1 | 12/21/05 | <0.500 | 2.80 | $<0.500$ | 5,290 | $<0.500$ | $<0.500$ | 153 |
| EA1 | 03/22/06 | <10 | $<10$ | $<10$ | 7,200 | $<10$ | $<10$ | $<2,000 \mathrm{v}$ |
| EA1 | 06/13/06 | $<0.50$ | $<0.50$ | $<0.50$ | 5,100 | $<0.50$ | <0.50w | $<100$ |
| EA1 | 09/22/06 | $<0.500$ | $<0.500$ | $<0.500$ | 1,940x | $<0.500$ | $<0.500$ | $<0.500$ |
| EA1 | 12/21/06 | $<0.500$ | $<0.500$ | $<0.500$ | 402x | $<0.500$ | $<0.500$ | $<50.0$ |
| EA1 | 03/20/07 | $<0.50$ | $<0.50$ | $<0.50$ | 1,500 | $<0.50$ | $<0.50$ | $<5.0$ |
| EA1 | 06/11/07 | $<0.50$ | $<0.50$ | $<0.50$ | 1,700 | <0.50 | <0.50 | $<5.0$ |
| EA1 | 08/29/07 | $<0.50$ | $<0.50$ | $<0.50$ | 1,900 | $<0.50$ | <0.50 | $<5.0$ |
| EA1 | 12/11/07 | $<0.50$ | $<0.50$ | $<0.50$ | 1,100 | $<0.50$ | $<0.50$ | --- |
| EA1 | 03/19/08 | $<0.80$ | $<0.80$ | $<0.80$ | 1,800 | $<0.80$ | $<0.80$ | --- |
| EA1 | 06/10/08 | --- | --- | --- | 1,500 | --- | --- | --- |
| EA2 | 12/21/87-03/22/00 Not analyzed for these analytes. |  |  |  |  |  |  |  |
| EA2 | Property transferred from Exxon Mobil to Valero in April 2000. |  |  |  |  |  |  |  |
| EA2 | 06/15/00-03/27/01 Not analyzed for these analytes. |  |  |  |  |  |  |  |
| EA2 | Property transferred from Valero to Petroleum Sales Inc. in May 2001. |  |  |  |  |  |  |  |
| EA2 | 06/26/01-12/27/02 Not analyzed for these analytes. |  |  |  |  |  |  |  |
| EA2 | 03/20/03 |  |  | --- | 6,010 | --- | --- | --- |
| EA2 | 05/23/03 | --- | -..- | --- | 12,600 | --- | --- | --- |
| EA2 | 08/01/03 | --- | --- | --- | 7,450 | --- | --- | --- |
| EA2 | 10/17/03 | --- | --- | --- | 9,510 | --- | --- | --- |
| EA2 | 01/23/04 | $<0.50$ | <0.50 | $<0.50$ | 4,730 | $<0.50$ | <0.50 | --- |
| EA2 | 05/27/04 | --- | --- | --- | 1,520 | --- | --- | <50.0 |
| EA2 | 08/27/04 | $<0.50$ | $<0.50$ | $<0.50$ | 845 | $<0.50$ | $<0.50$ | < 50.0 |
| EA2 | 12/01/04 | $<0.50$ | $<0.50$ | $<0.50$ | 695 | <0.50 | $<0.50$ | < 50.0 |
| EA2 | 03/03/05 | $<0.50$ | $<0.50$ | $<0.50$ | 378 | $<0.50$ | $<0.50$ | $<50.0$ |
| EA2 | 06/23/05 | $<0.50$ | $<0.50$ | $<0.50$ | 200 | $<0.50$ | <0.50 | <50.0 |
| EA2 | 09/22/05 | $<0.500$ | $<0.500$ | $<0.500$ | 134 | $<0.500$ | <0.500 | < 50.0 |
| EA2 | 12/21/05 | $<0.500$ | 2.63 | <0.500 | 220 | $<0.500$ | $<0.500$ | 171 |

table 3

## ADDITIONAL CUMULATIVE GROUNDWATER SAMPLING DATA 930 Del Presidio Boulevard <br> an Rafael, California (Page 2 of 11)

| $\begin{gathered} \text { Well } \\ \text { iD } \end{gathered}$ | Sampling Date | $\begin{gathered} \text { EDB } \\ (\mu \mathrm{g} / \mathrm{L}) \end{gathered}$ | $\begin{gathered} 1,2-D C A \\ (\mu g / L) \\ \hline \end{gathered}$ | TAME ( $\mu \mathrm{g} / \mathrm{L}$ ) | $\begin{gathered} \text { TBA } \\ (\mu \mathrm{g} / \mathrm{L}) \end{gathered}$ | $\begin{aligned} & \text { ETBE } \\ & (\mu \mathrm{g} / \mathrm{L}) \end{aligned}$ | $\begin{gathered} \text { DIPE } \\ (\mu \mathrm{g} / \mathrm{L}) \\ \hline \end{gathered}$ | Ethanol ( $\mu \mathrm{g} / \mathrm{L}$ ) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| EA2 | 03/22/06 | $<0.50$ | $<0.50$ | <0.50 | 170 | <0.50 | <0.50 | <100v |
| EA2 | 06/13/06 | <0.50 | <0.50 | $<0.50$ | 250 | $<0.50$ | <0.50w | $<100$ |
| EA2 | 09/22/06 | $<0.500$ | $<0.500$ | $<0.500$ | 127 | $<0.500$ | $<0.500$ | < 50.0 |
| EA2 | 12/21/06 | $<0.500$ | $<0.500$ | $<0.500$ | 127 | $<0.500$ | $<0.500$ | <50.0 |
| EA2 | 03/20/07 | <0.50 | $<0.50$ | $<0.50$ | 7 | <0.50 | $<0.50$ | $<5.0$ |
| EA2 | 06/11/07 | $<0.50$ | <0.50 | $<0.50$ | 52 | $<0.50$ | $<0.50$ | $<5.0$ |
| EA2 | 08/29/07 | $<0.50$ | $<0.50$ | $<0.50$ | 8.9 | $<0.50$ | $<0.50$ | $<5.0$ |
| EA2 | 12/11/07 | $<0.50$ | $<0.50$ | $<0.50$ | 11 | $<0.50$ | $<0.50$ | --- |
| EA2 | 03/19/08 | $<0.50$ | $<0.50$ | $<0.50$ | 6 | <0.50 | $<0.50$ | --- |
| EA2 | 06/10/08 | --- | --- | --- | 40 | --- | --- | --- |
| EA3 | 12/21/87-03/22/00 Not analyzed for these analytes. |  |  |  |  |  |  |  |
| EA3 | Property transferred from Exxon Mobil to Valero in April 2000. |  |  |  |  |  |  |  |
| EA3 | 06/15/00-03/27/01 Not analyzed for these analytes. |  |  |  |  |  |  |  |
| EA3 |  |  |  |  |  |  |  |  |
| EA3 | 06/26/01-12/27/02 Not analyzed for these analytes. |  |  |  |  |  |  |  |
| EA3 | 03/20/03 | -- |  | --- | 7,700 | --- | --- | --- |
| EA3 | 05/23/03 | --- | --- | --- | 5,310 | --- | --- | --- |
| EA3 | 08/01/03 | --- | --- | -- | 6,980 | --- | --- | $\cdots$ |
| EA3 | 10/17/03 | --- | -- | --- | 5,100 | --- | --- | --- |
| EA3 | 01/23/04 | <2.50 | <2.50 | <2.50 | 8,300 | $<2.50$ | <2.50 | --- |
| EA3 | 05/27/04 | --- | --- | --- | 27,000 | --- | --- | < 50.0 |
| EA3 | 08/27/04 | $<0.50$ | $<0.50$ | $<0.50$ | 110 | $<0.50$ | 0.80 | < 50.0 |
| EA3 | 12/01/04 | $<0.50$ | $<0.50$ | $<0.50$ | 2,760 | $<0.50$ | $<0.50$ | $<50.0$ |
| EA3 | 03/03/05 | $<0.50$ | $<0.50$ | $<0.50$ | 1,620 | $<0.50$ | $<0.50$ | $<50.0$ |
| EA3 | 06/23/05 | 1.70 | $<0.50$ | $<0.50$ | 826 | <0.50 | $<0.50$ | < 50.0 |
| EA3 | 09/22/05 | $<0.500$ | $<0.500$ | $<0.500$ | 918 | $<0.500$ | $<0.500$ | $<50.0$ |
| EA3 | 12/21/05 | $<0.500$ | 2.69 | $<0.500$ | 486 | $<0.500$ | $<0.500$ | 137 |
| EA3 | 03/22/06 | <1.0 | $<1.0$ | $<1.0$ | 810 | <1.0 | $<1.0$ | <200 |
| EA3 | 06/13/06 | $<1.0$ | $<1.0$ | $<1.0$ | 440 | <1.0 | <1.0w | <200 |
| EA3 | 09/22/06 | $<0.500$ | $<0.500$ | $<0.500$ | 602 | $<0.500$ | $<0.500$ | $<50.0$ |
| EA3 | 12/21/06 | $<0.500$ | $<0.500$ | $<0.500$ | 155 | $<0.500$ | $<0.500$ | <50.0 |
| EA3 | 03/20/07 | $<0.50$ | $<0.50$ | $<0.50$ | 130 | <0.50 | $<0.50$ | $<5.0$ |
| EA3 | 06/11/07 | $<0.50$ | $<0.50$ | $<0.50$ | 330 | $<0.50$ | $<0.50$ | $<5.0$ |
| EA3 | 08/30/07 | $<0.50$ | $<0.50$ | $<0.50$ | 230 | $<0.50$ | $<0.50$ | <5.0 |
| EA3 | 12/11/07 | $<0.50$ | $<0.50$ | $<0.50$ | $<5.0$ | $<0.50$ | $<0.50$ | --- |
| EA3 | 03/19/08 | $<0.50$ | $<0.50$ | $<0.50$ | 14 | $<0.50$ | <0.50 | --- |
| EA3 | 06/10/08 | -- | $\cdots$ | --- | 56 | --- | --- | --- |
| EA4 | 12/21/87-03/22/00 Not analyzed for these analytes. |  |  |  |  |  |  |  |
| EA4 | Property transferred from Exxon Mobil to Valero in April 2000. |  |  |  |  |  |  |  |
| EA4 | 06/15/00-03/27/01 Not analyzed for these analytes. |  |  |  |  |  |  |  |
| EA4 | Property transferred from Valero to Petroleum Sales Inc. in May 2001. |  |  |  |  |  |  |  |
| EA4 | 06/26/01-12/27/02 Not analyzed for these analytes. |  |  |  |  |  |  |  |
| EA4 | 03/20/03 | --- | --- | --- | $<10.0$ | --- | --- | --- |
| EA4 | 05/23/03 | --- | $\cdots$ | --- | $<10.0$ | --- | --- | --- |


|  |  |  | ADDITIONAL | ATIVE G <br> Valero <br> Del Pr <br> San Raf <br> (Pag | ATER S 1 vard ia | DATA |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Well ID | Sampling Date | $\begin{gathered} \text { EDB } \\ (\mu \mathrm{g} / \mathrm{L}) \end{gathered}$ | $\begin{gathered} \text { 1,2-DCA } \\ (\mu \mathrm{g} / \mathrm{L}) \end{gathered}$ | TAME ( $\mu \mathrm{g} / \mathrm{L}$ ) | $\begin{gathered} \text { TBA } \\ (\mu \mathrm{g} / \mathrm{L}) \end{gathered}$ | $\begin{aligned} & \text { ETBE } \\ & (\mu \mathrm{g} / \mathrm{L}) \end{aligned}$ | DIPE <br> ( $\mu \mathrm{g} / \mathrm{L}$ ) | Ethanol ( $\mu \mathrm{g} / \mathrm{L}$ ) |
| EA4 | 08/01/03 | --- | --- | --- | <10.0 | --- | --- | --- |
| EA4 | 10/13/03 | --- | --- | --- | 738 | --- | --- | --- |
| EA4 | 01/23/04 | $<0.50$ | <0.50 | <0.50 | $<10.0$ | <0.50 | <0.50 | --- |
| EA4 | 05/27/04 | --- | --- | --- | <10.0 | --- | --- | < 50.0 |
| EA4 | 08/27/04 | $<0.50$ | $<0.50$ | $<0.50$ | $<10.0$ | $<0.50$ | $<0.50$ | $<50.0$ |
| EA4 | 12/01/04 | $<0.50$ | $<0.50$ | $<0.50$ | $<10.0$ | $<0.50$ | $<0.50$ | < 50.0 |
| EA4 | 03/03/05 | $<0.50$ | $<0.50$ | $<0.50$ | <10.0 | $<0.50$ | $<0.50$ | < 50.0 |
| EA4 | 06/23/05 | $<0.50$ | $<0.50$ | $<0.50$ | <10.0 | <0.50 | $<0.50$ | $<50.0$ |
| EA4 | 09/22/05 | $<0.500$ | $<0.500$ | $<0.500$ | 17.1 | $<0.500$ | $<0.500$ | < 50.0 |
| EA4 | 12/21/05 | $<0.500$ | 2.58 | 1.41 | $<10.0$ | $<0.500$ | $<0.500$ | 139 |
| EA4 | 03/22/06 | <0.50 | $<0.50$ | $<0.50$ | $<20$ | <0.50 | $<0.50$ | $<100$ |
| EA4 | 06/13/06 | $<0.50$ | $<0.50$ | $<0.50$ | $<20$ | $<0.50$ | <0.50w | $<100$ |
| EA4 | 09/22/06 | $<0.500$ | $<0.500$ | $<0.500$ | $<10.0$ | $<0.500$ | $<0.500$ | <50.0 |
| EA4 | 12/21/06 | $<0.500$ | $<0.500$ | $<0.500$ | $<10.0$ | $<0.500$ | $<0.500$ | < 50.0 |
| EA4 | 03/20/07 | <0.50 | <0.50 | $<0.50$ | $<5.0$ | $<0.50$ | $<0.50$ | $<5.0$ |
| EA4 | 06/11/07 | $<0.50$ | $<0.50$ | $<0.50$ | $<5.0$ | $<0.50$ | $<0.50$ | $<5.0$ |
| EA4 | 08/30/07 | --- | -- | --- | --- | --- | --- | --- |
| EA4 | 12/11/07 | --- | --- | --- | --- | --- | --- | $\cdots$ |
| EA4 | 03/19/08 | $\cdots$ | --- | --- | --- | --- | --- | --- |
| EA4 | 03/19/08 | --- | --- | --- | 880 | --- | --- | --- |
| EA4 | 06/10/08 | --- | --- | --- | --- | --- | --- | --- |
| EA5 | 12/21/87-03/22/00 Not analyzed for these analytes. |  |  |  |  |  |  |  |
| EA5 | Property transferred from Exxon Mobil to Valero in April 2000. |  |  |  |  |  |  |  |
| EA5 | 06/15/00-03/27/01 Not analyzed for these analytes. |  |  |  |  |  |  |  |
| EA5 | Property transferred from Valero to Petroleum Sales Inc. in May 2001. |  |  |  |  |  |  |  |
| EA5 | 06/26/01-12/27/02 Not analyzed for these analytes. |  |  |  |  |  |  |  |
| EA5 | 03/20/03 | ---- | --- | --- | 5,800 | --- | --- | --- |
| EA5 | 05/23/03 | --- | --- | --- | 11,800 | --- | --- | --- |
| EA5 | 08/01/03 | --- | --- | --- | 21,800 | --- | --- | --- |
| EA5 | 10/17/03 | --- | --- | --- | <10.0 | --- | --- | --- |
| EA5 | 01/23/04 | $<0.50$ | $<0.50$ | $<0.50$ | 1,350 | $<0.50$ | <0.50 | --- |
| EA5 | 05/27/04 | --- | --- | --- | 169 | --- | --- | <50.0 |
| EA5 | 08/27/04 | <0.50 | $<0.50$ | $<0.50$ | 3,290 | $<0.50$ | $<0.50$ | <50.0 |
| EA5 | 12/01/04 | $<0.50$ | $<0.50$ | $<0.50$ | 48.6 | $<0.50$ | $<0.50$ | $<50.0$ |
| EA5 | 03/03/05 | $<0.50$ | $<0.50$ | $<0.50$ | 635 | $<0.50$ | <0.50 | $<50.0$ |
| EA5 | 06/23/05 | $<0.50$ | $<0.50$ | $<0.50$ | <10.0 | $<0.50$ | <0.50 | $<50.0$ |
| EA5 | 09/22/05 s | $<0.500$ | $<0.500$ | $<0.500$ | 820 | $<0.500$ | $<0.500$ | <50.0 |
| EA5 | 12/21/05 s | $<0.500$ | $<0.500$ | $<0.500$ | 358 | $<0.500$ | $<0.500$ | $<50.0$ |
| EA5 | 03/22/06 s | <12 | $<12$ | 28 | 1,900 | <12 | <12 | <2,500 |
| EA5 | 06/13/06 s | <10 | <10 | <10 | 2,600 | <10 | <10w | <2,000 |
| EA5 | 09/22/06 s | $<0.500$ | $<0.500$ | $<0.500$ | 417 | $<0.500$ | <0.500 | $<50.0$ |
| EA5 | 12/21/06 | <0.500 | <0.500 | $<0.500$ | 123 | $<0.500$ | <0.500 | $<50.0$ |
| EA5 | 03/20/07 | --- | --- | --- | --- | --- | --- | --- |
| EA5 | 06/11/07 | $<50.0$ | $<50.0$ | <50.0 | 130 | <50.0 | <50.0 | $<8.0$ |
| EA5 | 03/20/07 | <50.0 | < 50.0 | <50.0 | 31 | <50.0 | $<50.0$ | $<5.0$ |


| $\begin{gathered} \hline \text { Well } \\ \text { ID } \end{gathered}$ | Sampling Date | $\begin{gathered} \text { EDB } \\ (\mu \mathrm{g} / \mathrm{L}) \\ \hline \end{gathered}$ | $\begin{gathered} \text { 1,2-DCA } \\ (\mu \mathrm{g} / \mathrm{L}) \\ \hline \end{gathered}$ | TAME ( $\mu \mathrm{g} / \mathrm{L}$ ) | $\begin{gathered} \text { TBA } \\ (\mu \mathrm{g} / \mathrm{L}) \\ \hline \end{gathered}$ | $\begin{aligned} & \hline \text { ETBE } \\ & (\mu \mathrm{g} / \mathrm{L}) \end{aligned}$ | $\begin{gathered} \hline \text { DIPE } \\ (\mu \mathrm{g} / \mathrm{L}) \\ \hline \end{gathered}$ | Ethanol ( $\mu \mathrm{g} / \mathrm{L}$ ) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| EA5 | 08/30/07 | <0.50 | <0.50 | <0.50 | 31 | $<0.50$ | $<0.50$ | $<5.0$ |
| EA5 | 12/11/07 | $<0.50$ | $<0.50$ | <0.50 | 120 | $<0.50$ | $<0.50$ | --- |
| EA5 | 03/19/08 | $<0.50$ | <0.50 | $<0.50$ | $<5.0$ | $<0.50$ | $<0.50$ | --- |
| EA5 | 06/10/08 | --- | --- | --- | 880 | -- | -- | --- |
| EA6 | 06/29/88-04/03/91 Not analyzed for these analytes. 06/24/91 - Well destroyed. |  |  |  |  |  |  |  |
| EA6 |  |  |  |  |  |  |  |  |
| EA7 | 12/21/87-03/22/00 Not analyzed for these analytes. |  |  |  |  |  |  |  |
| EA7 | Property transferred from Exxon Mobil to Valero in April 2000. |  |  |  |  |  |  |  |
| EA7 | 06/15/00-03/27/01 Not analyzed for these analytes. |  |  |  |  |  |  |  |
| EA7 | Property transferred from Valero to Petroleum Sales Inc. in May 2001. |  |  |  |  |  |  |  |
| EA7 | 06/26/01-12/27/02 Not analyzed for these analytes. |  |  |  |  |  |  |  |
| EA7 | 03/20/03 | --- | --- | --- | 14,300 | $\cdots$ | --- | --- |
| EA7 | 05/23/03 | --- | --- | --- | 9,800 | --- | --- | --- |
| EA7 | 08/01/03 | --- | --- | --- | 19,600 | --- | --- | --- |
| EA7 | 10/17/03 | --- | --- | --- | 12,300 | --- | --- | --- |
| EA7 | 01/23/04 | <0.50 | 2.70 | $<0.50$ | 7,950 | $<0.50$ | <0.50 | --- |
| EA7 | 05/27/04 | --- | --- | --- | 5,000 | --- | --- | <50.0 |
| EA7 | 08/27/04 | <2.50 | <2.50 | <2.50 | 4,000 | <2.50 | <2.50 | <250 |
| EA7 | 12/01/04 | $<0.50$ | $<0.50$ | $<0.50$ | 2,410 | $<0.50$ | $<0.50$ | < 50.0 |
| EA7 | 03/03/05 | $<0.50$ | $<0.50$ | <0.50 | 790 | $<0.50$ | $<0.50$ | <50.0 |
| EA7 | 06/23/05 | <0.50 | <0.50 | <0.50 | 1,840 | <0.50 | $<0.50$ | <50.0 |
| EA7 | 09/22/05 | $<0.500$ | $<0.500$ | $<0.500$ | 1,140 | <0.500 | $<0.500$ | <50.0 |
| EA7 | 12/21/05 | $<0.500$ | $<0.500$ | $<0.500$ | 571 | $<0.500$ | $<0.500$ | <50.0 |
| EA7 | 03/22/06 | $<0.50$ | $<0.50$ | $<0.50$ | 270 | $<0.50$ | $<0.50$ | <100 |
| EA7 | 06/13/06 | $<10$ | $<10$ | <10 | 2,300 | $<10$ | <10 | <2,000w |
| EA7 | 09/22/06 | $<0.500$ | $<0.500$ | $<0.500$ | 1,040 | $<0.500$ | $<0.500$ | <50.0 |
| EA7 | 12/21/06 | $<0.500$ | $<0.500$ | <0.500 | 297 | $<0.500$ | $<0.500$ | <50.0 |
| EA7 | 03/20/07 | <0.90 | $<0.90$ | $<0.90$ | 1,300 | $<0.90$ | $<0.90$ | $<9.0$ |
| EA7 | 06/11/07 | <0.50 | <0.50 | <0.50 | 900 | $<0.50$ | $<0.50$ | <0.50 |
| EA7 | 08/30/07 | $<0.50$ | $<0.50$ | <0.50 | 700 | $<0.50$ | <0.50 | $<20$ |
| EA7 | 12/11/07 | $<0.50$ | $<0.50$ | <0.50 | 390 | $<0.50$ | $<0.50$ | --- |
| EA7 | 03/19/08 | <0.50 | $<0.50$ | <0.50 | 230 | $<0.50$ | $<0.50$ | --- |
| EA7 | 06/10/08 | --- | --- | --- | 570 | --- | --- | --- |
| EA8 | 12/21/87-03/22/00 Not analyzed for these analytes. |  |  |  |  |  |  |  |
| EA8 | Property transferred from Exxon Mobil to Valero in April 2000. |  |  |  |  |  |  |  |
| EA8 | 06/15/00-03/27/01 Not analyzed for these analytes. |  |  |  |  |  |  |  |
| EA8 | Property transferred from Valero to Petroleum Sales Inc. in May 2001. |  |  |  |  |  |  |  |
| EA8 | 06/26/01-12/27/02 Not analyzed for these analytes. |  |  |  |  |  |  |  |
| EA8 | 03/20/03 | --- | --- | --- | <10.0 | --- | --- | --- |
| EA8 | 05/23/03 | --- | --- | -- | <10.0 | --- | --- | --- |
| EA8 | 08/01/03 | --- | --- | --- | <10.0 | --- | --- | --- |
| EA8 | 10/17/03 | --- | --- | --- | <10.0 | --- | --- | -- |
| EA8 | 01/23/04 | <0.50 | <0.50 | $<0.50$ | <10.0 | <0.50 | <0.50 | $\cdots$ |


|  |  |  | ADDITIONA | ATIVE G Valero 0 Del Pr San Rafa (Pag | ATER S <br> 1 <br> vard <br> ia | DATA |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{gathered} \text { Well } \\ \text { ID } \\ \hline \end{gathered}$ | Sampling <br> Date | $\begin{gathered} \text { EDB } \\ (\mu \mathrm{g} / \mathrm{L}) \\ \hline \end{gathered}$ | $\begin{gathered} \text { 1,2-DCA } \\ (\mu \mathrm{g} / \mathrm{L}) \\ \hline \end{gathered}$ | TAME ( $\mu \mathrm{g} / \mathrm{L}$ ) | $\begin{gathered} \text { TBA } \\ (\mu \mathrm{g} / \mathrm{L}) \\ \hline \end{gathered}$ | $\begin{aligned} & \text { ETBE } \\ & (\mu \mathrm{g} / \mathrm{L}) \end{aligned}$ | $\begin{aligned} & \text { DIPE } \\ & (\mu \mathrm{g} / \mathrm{L}) \end{aligned}$ | Ethanol ( $\mu \mathrm{g} / \mathrm{L}$ ) |
| EA8 | 05/27/04 | --- | --- | --- | <10.0 | ( |  | <50.0 |
| EA8 | 08/27/04 | $<0.50$ | <0.50 | $<0.50$ | <10.0 | $<0.50$ | $<0.50$ | <50.0 |
| EA8 | 12/01/04 | $<0.50$ | $<0.50$ | $<0.50$ | <10.0 | $<0.50$ | $<0.50$ | <50.0 |
| EA8 | 03/03/05 | $<0.50$ | $<0.50$ | $<0.50$ | <10.0 | <0.50 | $<0.50$ | < 50.0 |
| EA8 | 06/23/05 | $<0.50$ | $<0.50$ | $<0.50$ | $<10.0$ | $<0.50$ | $<0.50$ | < 50.0 |
| EA8 | 09/22/05 | $<0.500$ | $<0.500$ | <0.500 | 37.7 | $<0.500$ | $<0.500$ | < 50.0 |
| EA8 | 12/21/05 | $<0.500$ | $<0.500$ | $<0.500$ | $<10.0$ | $<0.500$ | $<0.500$ | < 50.0 |
| EA8 | 03/22/06 | $<0.50$ | $<0.50$ | $<0.50$ | $<20$ | $<0.50$ | $<0.50$ | <100 |
| EA8 | 06/13/06 | $<0.50$ | $<0.50$ | $<0.50$ | $<20$ | $<0.50$ | $<0.50$ | <100w |
| EA8 | 09/22/06 | $<0.500$ | $<0.500$ | <0.500 | $<10.0$ | $<0.500$ | $<0.500$ | <50.0 |
| EA8 | 12/21/06 | $<0.500$ | $<0.500$ | <0.500 | <10.0 | $<0.500$ | $<0.500$ | < 50.0 |
| EA8 | 03/20/07 | $<0.50$ | $<0.50$ | $<0.50$ | <5.0 | $<0.50$ | $<0.50$ | $<5.0$ |
| EA8 | 06/11/07 | $<0.50$ | $<0.50$ | $<0.50$ | $<5.0$ | $<0.50$ | $<0.50$ | $<5.0$ |
| EA8 | 08/30/07 | --- | --- | --- | --- | --- | --- | --- |
| EA8 | 12/11/07 | $<0.50$ | $<0.50$ | $<0.50$ | $<5.0$ | $<0.50$ | $<0.50$ | --- |
| EA8 | 03/19/08 | $<0.50$ | $<0.50$ | $<0.50$ | $<5.0$ | $<0.50$ | $<0.50$ | --- |
| EA8 | 06/10/08 | --- | --- | --- | $<5.0$ | --- | --- | --- |
| EA9 | 12/21/87-03/22/00 Not analyzed for these analytes. |  |  |  |  |  |  |  |
| EA9 | Property transferred from Exxon Mobil to Valero in April 2000. |  |  |  |  |  |  |  |
| EA9 | 06/15/00-03/27/01 Not analyzed for these analytes. |  |  |  |  |  |  |  |
| EA9 | Property transferred from Valero to Petroleum Sales Inc. in May 2001. |  |  |  |  |  |  |  |
| EA9 | 06/26/01-12/27/02 Not analyzed for these analytes. |  |  |  |  |  |  |  |
| EA9 | 03/20/03 | --- | --- | --- | 1,030 | --- | --- | --- |
| EA9 | 05/23/03 | --- | --- | --- | 1,390 | $\cdots$ | -- | --- |
| EA9 | 08/01/03 | --- | --- | --- | 1,840 | --- | --- | --- |
| EA9 | 10/13/03 | --- | --- | --" | 990 | --- | --- | --- |
| EA9 | 01/23/04 | <0.50 | $<0.50$ | $<0.50$ | 1,410 | $<0.50$ | $<0.50$ | --- |
| EA9 | 05/27/04 | --- | --- | --- | 812 | --- | --- | $<50.0$ |
| EA9 | 08/27/04 | $<0.50$ | $<0.50$ | $<0.50$ | 932 | $<0.50$ | $<0.50$ | <50.0 |
| EA9 | 12/01/04 | <0.50 | <0.50 | $<0.50$ | 530 | $<0.50$ | $<0.50$ | <50.0 |
| EA9 | 03/03/05 | <0.50 | $<0.50$ | $<0.50$ | 686 | $<0.50$ | $<0.50$ | $<50.0$ |
| EA9 | 06/23/05 | <0.50 | $<0.50$ | $<0.50$ | 976 | $<0.50$ | $<0.50$ | < 50.0 |
| EA9 | 09/22/05 | $<0.500$ | $<0.500$ | $<0.500$ | 523 | $<0.500$ | <0.500 | <50.0 |
| EA9 | 12/21/05 | <0.500 | $<0.500$ | $<0.500$ | 209 | $<0.500$ | $<0.500$ | < 50.0 |
| EA9 | 03/22/06 | $<0.50$ | $<0.50$ | $<0.50$ | 530 | $<0.50$ | $<0.50$ | $<100$ |
| EA9 | 06/13/06 | <0.50 | $<0.50$ | $<0.50$ | 540 | $<0.50$ | $<0.50$ | <100w |
| EA9 | 09/22/06 | <0.500 | $<0.500$ | <0.500 | 526 | $<0.500$ | <0.500 | <50.0 |
| EA9 | 12/21/06 | $<0.500$ | $<0.500$ | $<0.500$ | 310 | <0.500 | <0.500 | <50.0 |
| EA9 | 03/20/07 | $<0.50$ | <0.50 | $<0.50$ | 370 | $<0.50$ | $<0.50$ | $<5.0$ |
| EA9 | 06/11/07 | $<0.50$ | $<0.50$ | $<0.50$ | 350 | $<0.50$ | $<0.50$ | $<5.0$ |
| EA9 | 08/30/07 | <0.50 | $<0.50$ | $<0.50$ | 190 | $<0.50$ | $<0.50$ | $<5.0$ |
| EA9 | 12/11/07 | <0.50 | <0.50 | $<0.50$ | 91 | $<0.50$ | $<0.50$ | --- |
| EA9 | 03/19/08 | <0.50 | $<0.50$ | $<0.50$ | 280 | $<0.50$ | $<0.50$ | --- |
| EA9 | 06/10/08 | -- | $\cdots$ | --- | 270 | --- | -- | -- |



|  |  |  | DDITION |  | ATER S <br> 1 vard ia | DATA |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{gathered} \text { Well } \\ \text { ID } \end{gathered}$ | Sampling <br> Date | $\begin{gathered} \text { EDB } \\ (\mu \mathrm{g} / \mathrm{L}) \end{gathered}$ | $\begin{gathered} 1,2-D C A \\ (\mu \mathrm{~g} / \mathrm{L}) \end{gathered}$ | TAME ( $\mu \mathrm{g} / \mathrm{L}$ ) | $\begin{gathered} \hline \text { TBA } \\ (\mu \mathrm{g} / \mathrm{L}) \\ \hline \end{gathered}$ | ETBE <br> ( $\mu \mathrm{g} / \mathrm{L}$ ) | DIPE <br> ( $\mu \mathrm{g} / \mathrm{L}$ ) | Ethanol ( $\mu \mathrm{g} / \mathrm{L}$ ) |
| EA11 | 06/13/06 | <0.50 | <0.50 | <0.50 | <20 | $<0.50$ | <0.50w | $<100$ |
| EA11 | 09/22/06 | <0.500 | $<0.500$ | $<0.500$ | 12.7 | $<0.500$ | $<0.500$ | <50.0 |
| EA11 | 12/21/06 | $<0.500$ | $<0.500$ | $<0.500$ | 46.6 | $<0.500$ | $<0.500$ | $<50.0$ |
| EA11 | 03/20/07 | $<0.50$ | $<0.50$ | $<0.50$ | 18 | $<0.50$ | $<0.50$ | $<5.0$ |
| EA11 | 06/11/07 | $<0.50$ | $<0.50$ | $<0.50$ | 25 | $<0.50$ | $<0.50$ | $<5.0$ |
| EA11 | 08/30/07 | $<0.50$ | <0.50 | <0.50 | 13 | $<0.50$ | <0.50 | $<5.0$ |
| EA11 | 12/11/07 | $<0.50$ | $<0.50$ | <0.50 | 20 | $<0.50$ | <0.50 | --- |
| EA11 | 03/19/08 | $<0.50$ | $<0.50$ | $<0.50$ | $<5.0$ | $<0.50$ | $<0.50$ | --- |
| EA11 | 06/10/08 | --- | -- | -- | 9.1 | --- | --- | --- |
| EA12 | 12/21/87 | analyzed | analytes. |  |  |  |  |  |
| EA12 | Property tr | Exxon | lero in Apr |  |  |  |  |  |
| EA12 | 06/15/00 - | analyzed | analytes. |  |  |  |  |  |
| EA12 | Property tr | Valero to | m Sales In | 2001. |  |  |  |  |
| EA12 | 06/26/01 - | analyzed | analytes. |  |  |  |  |  |
| EA12 | 03/20/03 | --- | --- | --- | $<10.0$ | --- | --- | --- |
| EA12 | 05/23/03 | --- | --- | --- | $<10.0$ | --- | --- | --- |
| EA12 | 08/01/03 | --- | --- | --- | <10.0 | --- | --- | --- |
| EA12 | 10/17/03 | --- | --- | --- | 19.5 | --- | --- | --- |
| EA12 | 01/23/04 | $<0.50$ | $<0.50$ | <0.50 | <10.0 | $<0.50$ | <0.50 | --- |
| EA12 | 05/27/04 | --- | --- | -- | <10.0 | --- | --- | $<50.0$ |
| EA12 | 08/27/04 | <0.50 | <0.50 | $<0.50$ | <10.0 | $<0.50$ | $<0.50$ | $<50.0$ |
| EA12 | 12/01/04 | $<0.50$ | $<0.50$ | $<0.50$ | <10.0 | $<0.50$ | $<0.50$ | $<50.0$ |
| EA12 | 03/03/05 | <0.50 | $<0.50$ | $<0.50$ | <10.0 | $<0.50$ | <0.50 | $<50.0$ |
| EA12 | 06/23/05 | <0.50 | <0.50 | $<0.50$ | <10.0 | <0.50 | $<0.50$ | $<50.0$ |
| EA12 | 09/22/05 | $<0.500$ | $<0.500$ | $<0.500$ | <10.0 | $<0.500$ | <0.500 | $<50.0$ |
| EA12 | 12/21/05 | $<0.500$ | $<0.500$ | $<0.500$ | <10.0 | $<0.500$ | $<0.500$ | $<50.0$ |
| EA12 | 03/22/06 | <0.50 | $<0.50$ | $<0.50$ | <20 | $<0.50$ | $<0.50$ | <100v |
| EA12 | 06/13/06 | <0.50 | $<0.50$ | $<0.50$ | $<20$ | $<0.50$ | <0.50w | <100 |
| EA12 | 09/22/06 | $<0.500$ | $<0.500$ | $<0.500$ | <10.0 | $<0.500$ | $<0.500$ | $<50.0$ |
| EA12 | 12/21/06 | $<0.500$ | $<0.500$ | $<0.500$ | $<10.0$ | $<0.500$ | <0.500 | $<50.0$ |
| EA12 | 03/20/07 | <0.50 | <0.50 | $<0.50$ | $<5.0$ | $<0.50$ | $<0.50$ | <5.0 |
| EA12 | 06/11/07 | $<0.50$ | $<0.50$ | $<0.50$ | $<5.0$ | $<0.50$ | $<0.50$ | $<5.0$ |
| EA12 | 08/30/07 | --- | --- | --- | --- | --- | --- | --- |
| EA12 | 12/11/07 | --- | --- | --- | --- | --- | --- | --- |
| EA12 | 03/19/08 | -- | --- | --- | --- | --- | --- | --- |
| EA12 | 06/10/08 | --- | $\cdots$ | --- | $<5.0$ | --- | --- | --- |
| EA13 | 12/21/87-03/22/00 Not analyzed for these analytes. |  |  |  |  |  |  |  |
| EA13 | Property transferred from Exxon Mobil to Valero in April 2000. |  |  |  |  |  |  |  |
| EA13 | 06/15/00-03/27/01 Not analyzed for these analytes. |  |  |  |  |  |  |  |
| EA13 | Property transferred from Valero to Petroleum Sales Inc. in May 2001. |  |  |  |  |  |  |  |
| EA13 | 06/26/01-12/27/02 Not analyzed for these analytes. |  |  |  |  |  |  |  |
| EA13 | 03/20/03 | --- | --. | --- | $<10.0$ | -- | --- | --- |
| EA13 | 05/23/03 | -- | --- | --- | $<10.0$ | --- | --- | --- |
| EA13 | 08/01/03 | --- | --- | --- | --- | --- | -- | -- |


|  |  |  | DDITION | ATIVE G <br> Valero <br> Del Pre <br> San Rafa <br> (Pag | ATER SA 1 <br> vard ia | DATA |  |  |
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| $\begin{gathered} \text { Well } \\ \text { ID } \end{gathered}$ | Sampling Date | $\begin{gathered} \text { EDB } \\ (\mu \mathrm{g} / \mathrm{L}) \end{gathered}$ | $\begin{gathered} 1,2-D C A \\ (\mu \mathrm{~g} / \mathrm{L}) \\ \hline \end{gathered}$ | TAME ( $\mu \mathrm{g} / \mathrm{L}$ ) | $\begin{gathered} \text { TBA } \\ (\mu \mathrm{g} / \mathrm{L}) \end{gathered}$ | $\begin{aligned} & \text { ETBE } \\ & (\mu \mathrm{g} / \mathrm{L}) \\ & \hline \end{aligned}$ | DIPE <br> ( $\mu \mathrm{g} / \mathrm{L}$ ) | Ethanol ( $\mu \mathrm{g} / \mathrm{L}$ ) |
| EA13 | 10/17/03 | -- | --- | --- | --- | --- | --- | --- |
| EA13 | 01/23/04 | <0.50 | <0.50 | $<0.50$ | <10.0 | $<0.50$ | $<0.50$ | --- |
| EA13 | 05/27/04 g | .-. | --- | --- | --- | --- | --- | -- |
| EA13 | 08/27/04 g | --- | --- | --- | --- | --- | --- | --- |
| EA13 | 12/01/04 g | --- | --- | --- | --- | --- | --- | --- |
| EA13 | 03/03/05 | $<0.50$ | $<0.50$ | $<0.50$ | $<10.0$ | $<0.50$ | $<0.50$ | <50.0 |
| EA13 | 06/23/05 | <0.50 | $<0.50$ | $<0.50$ | $<10.0$ | $<0.50$ | $<0.50$ | <50.0 |
| EA13 | 09/22/05 g | --- | --- | -- | --- | --- | --- | --- |
| EA13 | 03/22/06 | $<0.50$ | $<0.50$ | $<0.50$ | $<20$ | <0.50 | $<0.50$ | $<100 v$ |
| EA13 | 06/13/06 | $<0.50$ | $<0.50$ | $<0.50$ | $<20$ | $<0.50$ | <0.50w | $<100$ |
| EA13 | 09/22/06 g | --- | --- | --- | --- | --- | --- | --- |
| EA13 | 12/21/06 g | --- | --- | $\cdots$ | --- | --- | --- | $\cdots$ |
| EA13 | 03/20/07 | $<0.50$ | $<0.50$ | <0.50 | <5.0 | <0.50 | <0.50 | $<5.0$ |
| EA13 | 06/11/07 | g | g | g | g | g | g | g |
| EA13 | 08/30/07 | --- | --- | --- | --- | -- | -- | --- |
| EA13 | 12/11/07 | --- | $\cdots$ | --- | --* | --- | --- | --- |
| EA13 | 03/19/08 | --. | --- | $\cdots$ | --- | --- | --- | --- |
| EA13 | 06/10/08 | --- | --- | --- | $<5.0$ | --- | $\cdots$ | --- |
| EA14 | 12/21/87-03/22/00 Not analyzed for these analytes. |  |  |  |  |  |  |  |
| EA14 | Property transferred from Exxon Mobil to Valero in April 2000. |  |  |  |  |  |  |  |
| EA14 | 06/15/00-03/27/01 Not analyzed for these analytes. |  |  |  |  |  |  |  |
| EA14 | Property transferred from Valero to Petroleum Sales Inc. in May 2001. |  |  |  |  |  |  |  |
| EA14 | 06/26/01-12/27/02 Not analyzed for these analytes. |  |  |  |  |  |  |  |
| EA14 | 03/20/03 | --- | --- | --- | 14.6 | --- | --- | --- |
| EA14 | 05/23/03 | --- | --- | -- | <10.0 | --- | --- | --- |
| EA14 | 08/01/03 | --- | --- | --- | <10.0 | --- | --- | $\cdots$ |
| EA14 | 10/17/03 | --- | --- | --- | $<10.0$ | --- | --- | --- |
| EA14 | 01/23/04 | $<0.50$ | <0.50 | <0.50 | <10.0 | $<0.50$ | $<0.50$ | --- |
| EA14 | 05/27/04 j | --- | --- | --- | --- | --- | --- | $\cdots$ |
| EA14 | 08/27/04 | <0.50 | $<0.50$ | <0.50 | $<10.0$ | $<0.50$ | $<0.50$ | <50.0 |
| EA14 | 12/01/04 | $<0.50$ | $<0.50$ | $<0.50$ | $<10.0$ | $<0.50$ | $<0.50$ | <50.0 |
| EA14 | 03/03/05 | $<0.50$ | 1.20 | 1.10 | <10.0 | $<0.50$ | $<0.50$ | $<50.0$ |
| EA14 | 06/23/05 | <0.50 | <0.50 | $<0.50$ | <10.0 | $<0.50$ | $<0.50$ | <50.0 |
| EA14 | 09/22/05 | $<0.500$ | $<0.500$ | $<0.500$ | <10.0 | $<0.500$ | $<0.500$ | < 50.0 |
| EA14 | 12/21/05 | $<0.500$ | $<0.500$ | $<0.500$ | <10.0 | $<0.500$ | $<0.500$ | $<50.0$ |
| EA14 | 03/22/06 | $<0.50$ | $<0.50$ | <0.50 | <20 | $<0.50$ | $<0.50$ | $<100$ v |
| EA14 | 06/13/06 | $<0.50$ | $<0.50$ | $<0.50$ | $<20$ | $<0.50$ | $<0.50$ | $<100$ |
| EA14 | 09/22/06 | $<0.500$ | $<0.500$ | $<0.500$ | $<10.0$ | $<0.500$ | $<0.500$ | $<50.0$ |
| EA14 | 12/21/06 | $<0.500$ | $<0.500$ | $<0.500$ | $<10.0$ | $<0.500$ | $<0.500$ | <50.0 |
| EA14 | 03/20/07 | $<0.50$ | $<0.50$ | $<0.50$ | $<5.0$ | $<0.50$ | $<0.50$ | $<5.0$ |
| EA14 | 06/11/07 | $<0.50$ | $<0.50$ | $<0.50$ | $<5.0$ | $<0.50$ | $<0.50$ | $<5.0$ |
| EA14 | 08/30/07 | --- | --- | --- | --- | --- | --- | --- |
| EA14 | 12/11/07 | --- | --- | --- | --- | --- | --- | --- |
| EA14 | 03/19/08 | --- | --- | --- | --- | --- | --- | --- |
| EA14 | 06/10/08 | --- | --- | --- | $<5.0$ | -- | --- | -- |


|  |  |  | ADDITIO | ATIVE <br> Valero <br> 0 Del P <br> San Ra <br> (Pa | ATER S <br> 1 <br> evard <br> ia | DATA |  |  |
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| $\begin{gathered} \text { Well } \\ \text { ID } \end{gathered}$ | Sampling Date | $\begin{gathered} \text { EDB } \\ (\mu \mathrm{g} / \mathrm{L}) \end{gathered}$ | $\begin{gathered} 1,2-\mathrm{DCA} \\ (\mu \mathrm{~g} / \mathrm{L}) \\ \hline \end{gathered}$ | $\begin{aligned} & \text { TAME } \\ & (\mu \mathrm{g} / \mathrm{L}) \\ & \hline \end{aligned}$ | $\begin{gathered} \text { TBA } \\ (\mu \mathrm{g} / \mathrm{L}) \\ \hline \end{gathered}$ | $\begin{aligned} & \text { ETBE } \\ & (\mu \mathrm{g} / \mathrm{L}) \\ & \hline \end{aligned}$ | $\begin{gathered} \text { DIPE } \\ (\mu \mathrm{g} / \mathrm{L}) \\ \hline \end{gathered}$ | Ethanol <br> ( $\mu \mathrm{g} / \mathrm{L}$ ) |
| EA15 | 12/21/87 | analyzed | analytes. |  |  |  |  |  |
| EA15 | Property tr | Exxon | Valero in Apri |  |  |  |  |  |
| EA15 | 06/15/00 - | analyzed | analytes. |  |  |  |  |  |
| EA15 | Property tr | V Valero | um Sales In | 2001. |  |  |  |  |
| EA15 | 06/26/01 - | analyzed | analytes. |  |  |  |  |  |
| EA15 | 03/20/03 | --- | --. | --- | 949 | --- | --- | --- |
| EA15 | 05/23/03 | --- | --- | --- | 495 | --- | --- | --- |
| EA15 | 08/01/03 | --- | --- | --- | 9,310 | --- | -- | --- |
| EA15 | 10/17/03 | --- | --- | --- | 20,400 | --- | --- | --- |
| EA15 | 01/23/04 | <0.50 | <0.50 | $<0.50$ | 5,360 | $<0.50$ | <0.50 | --- |
| EA15 | 05/27/04 | --- | --- | --- | 195 | --- | --- | < 50.0 |
| EA15 | 08/27/04 | <0.50 | <0.50 | $<0.50$ | 379 | $<0.50$ | $<0.50$ | < 50.0 |
| EA15 | 12/01/04 | <0.50 | <0.50 | $<0.50$ | 426 | $<0.50$ | $<0.50$ | < 50.0 |
| EA15 | 03/03/05 | $<0.50$ | <0.50 | <0.50 | 247 | $<0.50$ | <0.50 | < 50.0 |
| EA15 | 06/23/05 | $<0.50$ | <0.50 | <0.50 | 393 | $<0.50$ | $<0.50$ | <50.0 |
| EA15 | 09/22/05 | <0.500 | $<0.500$ | $<0.500$ | 88.4 | $<0.500$ | $<0.500$ | <50.0 |
| EA15 | 12/21/05 | $<0.500$ | $<0.500$ | $<0.500$ | 349 | $<0.500$ | $<0.500$ | < 50.0 |
| EA15 | 03/22/06 | $<0.50$ | <0.50 | $<0.50$ | 73 | $<0.50$ | <0.50 | $<100 \mathrm{v}$ |
| EA15 | 06/13/06 | $<0.50$ | $<0.50$ | $<0.50$ | 24 | $<0.50$ | <0.50 | <100 |
| EA15 | 09/22/06 | $<0.500$ | $<0.500$ | $<0.500$ | <10.0 | $<0.500$ | <0.500 | <50.0 |
| EA15 | 12/21/06 | <0.500 | $<0.500$ | $<0.500$ | 55.8 | $<0.500$ | <0.500 | <50.0 |
| EA15 | 03/20/07 | $<0.50$ | <0.50 | $<0.50$ | 12 | $<0.50$ | $<0.50$ | < 5.0 |
| EA15 | 06/11/07 | $<0.50$ | <0.50 | $<0.50$ | 6.6 | $<0.50$ | <0.50 | <5.0 |
| EA15 | 08/30/07 | <0.50 | $<0.50$ | $<0.50$ | $<5.0$ | $<0.50$ | <0.50 | <5.0 |
| EA15 | 12/11/07 | $<0.50$ | <0.50 | $<0.50$ | 14 | <0.50 | <0.50 | --- |
| EA15 | 03/19/08 | <0.50 | <0.50 | <0.50 | $<5.0$ | $<0.50$ | $<0.50$ | --- |
| EA15 | 06/10/08 | --.- | --- | --- | <5.0 | --- | --- | --- |
| EA16 | 12/21/87 - | analyzed | analytes. |  |  |  |  |  |
| EA16 | Property tr | Exxon | alero in Apr |  |  |  |  |  |
| EA16 | 06/15/00 - | analyzed | analytes. |  |  |  |  |  |
| EA16 | Property tr | Valero | um Sales In | 2001. |  |  |  |  |
| EA16 | 06/26/01 - | analyzed | analytes. |  |  |  |  |  |
| EA16 | 03/20/03 | --- | --- | --- | 985 | --- |  |  |
| EA16 | 05/23/03 | --- | --- | --- | 44.4 | --- | --- |  |
| EA16 | 08/01/03 | --- | --- | --- | 45.0 | --- |  |  |
| EA16 | 10/17/03 | --- | --- | -- | 735 | $\cdots$ |  |  |
| EA16 | 01/23/04 | <0.50 | $<0.50$ | $<0.50$ | 68.8 | <0.50 | 0.90 |  |
| EA16 | 05/27/04 | --. | --- | --- | $<10.0$ | --- | --- | <50.0 |
| EA16 | 08/27/04 | $<0.50$ | $<0.50$ | $<0.50$ | 3,380 | $<0.50$ | $<0.50$ | < 50.0 |
| EA16 | 12/01/04 | <0.50 | $<0.50$ | $<0.50$ | 102 | $<0.50$ | 1.00 | < 50.0 |
| EA16 | 03/03/05 | $<0.50$ | $<0.50$ | <0.50 | 93.4 | $<0.50$ | 0.90 | <50.0 |
| EA16 | 06/23/05 | <0.50 | $<0.50$ | $<0.50$ | 164 | $<0.50$ | 0.90 | < 50.0 |
| EA16 | 09/22/05 | $<0.500$ | $<0.500$ | $<0.500$ | 124 | $<0.500$ | $<0.500$ | < 50.0 |
| EA16 | 12/21/05 | <0.500 | $<0.500$ | $<0.500$ | 179 | $<0.500$ | $<0.500$ | <50.0 |


|  |  |  | ADDITION | ATIVE <br> Valero <br> 0 Del Pr <br> San Raf <br> (Pag | ATER SA <br> 1 <br> vard <br> ia | DATA |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{gathered} \hline \text { Well } \\ \text { ID } \end{gathered}$ | Sampling Date | $\begin{gathered} \hline \text { EDB } \\ (\mu \mathrm{g} / \mathrm{L}) \\ \hline \end{gathered}$ | $\begin{gathered} 1,2-\mathrm{DCA} \\ (\mu \mathrm{~g} / \mathrm{L}) \\ \hline \end{gathered}$ | TAME ( $\mathrm{\mu g} / \mathrm{L}$ ) | $\begin{gathered} \text { TBA } \\ (\mu \mathrm{g} / \mathrm{L}) \\ \hline \end{gathered}$ | $\begin{aligned} & \text { ETBE } \\ & (\mu \mathrm{g} / \mathrm{L}) \\ & \hline \end{aligned}$ | $\begin{gathered} \text { DIPE } \\ (\mu \mathrm{g} / \mathrm{L}) \\ \hline \end{gathered}$ | Ethanol ( $\mu \mathrm{g} / \mathrm{L}$ ) |
| EA16 | 03/22/06 | $<0.50$ | $<0.50$ | $<0.50$ | 170 | $<0.50$ | 0.75 | <100v |
| EA16 | 06/13/06 | $<0.50$ | <0.50 | $<0.50$ | 200 | <0.50 | 0.81 | <100 |
| EA16 | 09/22/06 | $<0.500$ | $<0.500$ | $<0.500$ | 135 | $<0.500$ | 1.18 | < 50.0 |
| EA16 | 12/21/06 | $<0.500$ | $<0.500$ | $<0.500$ | 123 | $<0.500$ | 0.700 | < 50.0 |
| EA16 | 03/20/07 | $<0.50$ | $<0.50$ | $<0.50$ | 49 | $<0.50$ | 0.64 | <5.0 |
| EA16 | 06/11/07 | $<0.50$ | $<0.50$ | $<0.50$ | 53 | $<0.50$ | 0.68 | $<5.0$ |
| EA16 | 08/29/07 | $<0.50$ | $<0.50$ | $<0.50$ | 39 | $<0.50$ | 0.53 | $<5.0$ |
| EA16 | 12/11/07 | $<0.50$ | $<0.50$ | $<0.50$ | 38 | $<0.50$ | 0.69 | --- |
| EA16 | 03/19/08 | $<0.50$ | $<0.50$ | <0.50 | 12 | <0.50 | 0.69 | --- |
| EA16 | 06/10/08 | --- | ---- | --- | 45 | --- | --- | --- |
| RW1 | 01/13/94 - | analyzed | analytes. |  |  |  |  |  |
| RW1 | Property tr | Exxon | Valero in Apr |  |  |  |  |  |
| RW1 | 06/15/00- | analyzed | analytes. |  |  |  |  |  |
| RW1 | Property tr | Valero | um Sales Inc | 2001. |  |  |  |  |
| RW1 | 06/26/01 | --- | --- | --- | --- | --- | -- | --- |
| RW1 | 09/25/01 | no longe |  |  |  |  |  |  |
| Notes: |  |  |  |  |  |  |  |  |
| SUBJ | = | Its of subj | valuation. |  |  |  |  |  |
| NLPH | = | quid-phas | carbons pres |  |  |  |  |  |
| TOC | = | f well ca | ation; datum | sea level |  |  |  |  |
| DTW | = | to wate |  |  |  |  |  |  |
| GW Elev. | = | ndwater | ; datum is m | vel. |  |  |  |  |
| TPHd | $=$ | petroleu | arbons as did | zzed usin | ood 503 | dified) or |  |  |
| TPHg | = | petroleu | arbons as g | alyzed u | ethod 5 | modified |  |  |
| MTBE | - | yl tertiary | er analyzed | A Method | or to 03 | lyzed usi | hod 802 |  |
| TBA | = | ary butyl | nalyzed usin | thod 826 |  |  |  |  |
| BTEX | $=$ | ene, tolu | lbenzene, a | lenes an | EPA M | B; prior | analyz | EPA Met |
| Ethanol | = | nol analy | EPA Method |  |  |  |  |  |
| EDB | = | ibromoet | alyzed using | od 8260 |  |  |  |  |
| 1,2-DCA | = | ichloroeth | lyzed using | od 8260 |  |  |  |  |
| TAME | = | ary amyl | her analyzed | A Method |  |  |  |  |
| ETBE | $=$ | tertiary b | $r$ analyzed $u$ | Method |  |  |  |  |
| DIPE | = | propyl e | yzed using | d 8260B |  |  |  |  |
| $\mu \mathrm{g} / \mathrm{L}$ | - | grams p |  |  |  |  |  |  |
| --- | = | measured | pled/Not an |  |  |  |  |  |
| $<$ | = | than the | boratory rep |  |  |  |  |  |
| a | = | of casing | requires res |  |  |  |  |  |
| b | = | le chrom | does not re | diesel | tern. |  |  |  |
| c | = | carbons | han C22 we |  |  |  |  |  |
| d | = | ntified h | ons ranging | 24 pres | iesel sa | atogram |  |  |
| e | = | le was | laboratory |  |  |  |  |  |
| $f$ | = | ch remo | casing to im | f locking |  |  |  |  |
| g | $=$ | dry and/o | ient water for | or samp |  |  |  |  |
| h | = | matogram | weathered | 6-C12. |  |  |  |  |
| i | = | ntified h | ons present | togram | ated we | soline (C) |  |  |









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EA 2 Benzene Hydrograph 2nd Quarter, 2008







EA 5 Hydrographs
8007 'ләдеno puz






2nd Quarter, 2008


$\rightarrow-$ TPH-g
$\rightarrow-$ MTBE
$\rightarrow$ TBA
$\rightarrow-$ DTW
$\rightarrow$ Screened Interval



$\rightarrow$-TPH-g
$\rightarrow$ MTBE
$\rightarrow$-TBA

-     - DTW
$\rightarrow$ Screened Interval

(
 EA 9 Benzene Hydrograph
2nd Quarter, 2008


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## WELL GAUGING, PURGING, AND SAMPLING

Prior to purging and sampling, static groundwater levels in each monitoring well are measured using an electric monitoring probe or, if free product is anticipated, an interface probe is used to measure product thickness and depth to groundwater.

Each well is then purged of at least three well casing volumes of water using a clean polyethylene bailer, down-hole pump, or other approved method. Measurements of pH , temperature, and electrical conductivity are recorded and purging is continued for every casing volume until pH , temperature, and electrical conductivity measurements are stable (i.e., within 0.1 pH units or $10 \%$ ). Wells that dewater during purging are allowed to recharge to $80 \%$ of the original water column height or 1 hour prior to sampling. All purged water is discharged through an onsite groundwater treatment system or containerized in 55 gallon drums until removed from the site.

Once purging is complete, the well is allowed to recover to within $80 \%$ of its static condition (or until one hour has passed). As soon as sufficient volume is available, groundwater samples are retrieved using a disposable bailer, dedicated tubing, or via remediation system pumps. Water samples are collected in laboratory-provided Volatile Organic Analysis (VOA) vials with a Teflon-lined septum or other laboratory supplied containers appropriate for the analyses selected. VOA sample containers are examined to assess that no headspace is present then stored in a chilled ice chest or refrigerated at $4^{\circ}$ Celsius until transported to a state-certified laboratory for appropriate chemical analysis. Cross-contamination between wells is avoided by taking a number of precautions, including purging and sampling wells in a specific sequence (cleanest to dirtiest) using disposable or dedicated bailers, or dedicated tubing, and new gloves and clean equipment for each well.

Project No.: 3000048
Site Location/Address: 930 Del Presidio Blvd, CA.

Date: 6. 10.0Y
Site No.: 13781
Field Staff: W.J. Paculba

| Well |  |  |
| :---: | :---: | :---: |
| Completion | Casing |  |
| Depth | Diameter <br> (inches) | Screen Interval |



| Project Name: | VALERO-13781-2Q08 | Well No: EA1 | Date: Co. 11.08 |
| :--- | :--- | :--- | :--- |
| Project No: | $3000048-0003-206$ | Personnel: | W.J. Paculba |


| GAUGING DATA |  |  | Measuring Point Description: TOC |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| WELLPURGE vOLUME | TotallDepth (feet) | Depth to Water (feet) | Water Column (feet) | Multiplier for Casing Diameter |  |  |  | Casing Volume (gal) | Total Purge Volume (gal) |
| CALCULATION | $16.38=3.39{ }^{-} 12.99 \mathrm{X}_{0.04}^{1}$ |  |  |  | 2 | $\mathrm{C}_{4}$ | 6 1.44 | $8.31 \Rightarrow 24.94$ |  |


| PURGING DATA <br> Purge Method: |  |  | Purge Depth: | Purge Rate: | (gpm) |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Time ${ }^{\text {Prem }}$ | H204 | 11:23 | 7 |  |  |
| Volume Purge (gat) | 8.5 | 17 | 25.5 |  |  |
| Temperature (C) | 22.3 | 21.5 | 1 |  |  |
| $\square$ <br> pH | 6.51 | 6.60 | 1 |  |  |
| Spec.Cond.(umbos) | 1345 | 1454 | 7 |  |  |
| Turbidity/Color | ark/ouk | oure/eure | 1 |  |  |
| Odor (YN) | $Y$ | $Y$ | 1 |  |  |
| Dewatered (YIN) | $N$ | $N$ | $Y$ |  |  |
| Comments/Observations: |  |  |  |  |  |
| WELL DEWATERED © IX GALLIONS |  |  |  |  |  |

## SAMPLING DATA

Time Sampled: $11: 35$ Approximate Depth to Water During Sampling: 5 (feet)
Comments:

| Sample Number | Number of <br> Containers | ContainerType | Preservative | Volume Filled <br> (mL or L) | Turbidity/ Color | Analysis <br> Method |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| EA1 | 6 | VOA | HCL | 40 ML |  |  |
|  |  |  |  |  |  | SEE COC |
|  |  |  |  |  |  |  |




GROUNDWATER PURGE AND SAMPLE

| Project Name: | VALERO-13781-2Q08 | WROUNDWATER PURGE AND SAMPLE |  |
| :--- | :--- | :--- | :--- |
| Project No: | $3000048-0003-206$ | Personnel: | W.J. Paculba |

GAUGING DATA
Comments/Observations: WELL DENATERESO D 8,5 CALLONS


| Total Purge Volume: 8.5 (gallons) Disposal: |  |
| :---: | :---: |
| Weather Conditions: Cuskre suwim 7of-sof | BOLTS $\quad Y /(N)$ |
| Condition of Well Box and Casing at Time of Sampling: NEEDs R\&R | CAP \& LOCK (Y) / N |
| Well Head Conditions Requiring Correction: Extisias moot (ADD) | GROUT $\quad Y / C N$ |
| Problems Encountered During Purging and Sampling: Were misurereop | WELL BOX (Y)/N |
| Comments | SECURED $\mathrm{C} / \mathrm{N} / \mathrm{N}$ |



GROUNDWATER PURGE AND SAMPLE

| Project Name: | VALERO $-13781-2 Q 08$ | Well No: EA7 | Date: Co. $10 \cdot 08$ |
| :--- | :--- | :--- | :--- |
| Project No: | $3000048-0003-206$ | Personnel: $\quad$ W.J. Paculba |  |

## GAUGING DATA

| Water Level Me | asuring Method | WLM, IP | Measuring Point Description: TOC |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total Depth (feet) | Depth to Water (feet) | Water Column (feet) |  |  |  |  | Casing Volume (gal) | Total Purge Volume (gal) |
| calculation | $12.64$ | $5.56$ | $7.08$ | $\begin{aligned} & 1 \\ & 0.04 \\ & 0.0 \end{aligned}$ | 2 | $\begin{array}{\|c\|} \hline 4 \\ \hline 0.64 \\ \hline \end{array}$ | 6 1.44 | $4.53$ | $13,59$ |



## SAMPLING DATA

| Time Sampled: | $14: 20$ |  | Approximate Depth to Water During Sampling: |  |  | (feet) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Comments: |  |  |  |  |  |  |
| Sample Number | Number of Containers | Container Type | Preservative | Volume Filled (mL-orL) | Turbidity/ Color | Analysis Method |
| EA7 | 6 | VOA | HCL | 40ML | , | SEE COC |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |


| Total Purge Volume: is (gallons) | Disposal: |
| :---: | :---: |
| Weather Conditions: crevere sunnt tof.80\% | BOLTS $\quad Y /(N$ |
| Condition of Well Box and Casing at Time of Sampling: ore | CAP \& LOCK Y I N |
| Well Head Conditions Requiring Correction: Now- | GROUT $\quad \mathrm{Y} / \mathrm{N}$ |
| Problems Encountered During Purging and Sampling: Nows | WELL BOX (Y / N |
| Comments: | SECURED $(\hat{Y})$ N |


| Project Name: | VALERO - 13781-2Q08 | Well No: E | 8 | Date: Co.ll.oy |
| :---: | :---: | :---: | :---: | :---: |
| Project No: | 3000048-0003-206 | Personnel: | W.J. Paculba |  |

## GAUGING DATA

Water Level Measuring Method: (WLM) I IP Measuring Point Description: TOC


| PURGING DATA <br> Purge Method | WATERRA B | ILER / SUB | Purge Depth: | Screen | Purge Rate: | (gpm) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Time | $9: 37$ | 1 |  |  |  |  |
| Volume Purge (gal) | 4 | $8 /$ | 12 |  |  |  |
| Temperature (C) | 19.8 |  | 7 |  |  |  |
| $\mathrm{pH}$ | 6.78 | 1 | 1 |  |  |  |
| Spee:Cond.:(umhos) | 2296 | 1 | 1 |  |  |  |
| TurbiditylCoior | Sinty/carne | 1 | 1 |  |  |  |
| $\text { Odor }(V N)$ | $\varphi$ | 7 | 1 |  |  |  |
| Dewatered (YN) | $N$ | 9 |  |  |  |  |
| Comments/Observations: |  |  |  |  |  |  |
| Whi DEWATERED 6S 5 GAMLONS |  |  |  |  |  |  |

## SAMPLING DATA

Time Sampled: $8: 50 \quad$ Approximate Depth to Water During Sampling: 7 (feet)

## Comments:

| Sample Number | Number of <br> Containers | Container Type | Preservative | Volume Filled <br> (mL or L) | Turbidty/ Color | Analysis <br> Method |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| EA8 | 6 | VOA | HCL | 40 ML |  | SEE COC |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

Total Purge Volume: 5 (gallons) Disposal:

| Weather Conditions: aLorre sunmy 7of rof | BOLTS | Y / / N |
| :--- | :--- | :--- | :--- |
| Condition of Well Box and Casing at Time of Sampling: of | CAP \& LOCK © / N |  |
| Well Head Conditions Requiring Correction: wows | GROUT | $\mathrm{Y} / \mathrm{N}$ |
| Problems Encountered During Purging and Sampling: wows | WELL BOX | © / / N |
| Comments: | SECURED | © / N |


| Project Name: | VALERO-13781-2Q08 | Well No: EA9 | Date: L.LO © |
| :--- | :--- | :--- | :--- |
| Project No: | $3000048-0003-206$ | Personnel: | W.J. Paculba |

## GAUGING DATA

| Water Level | , | LM $1 / \mathrm{PP}$ | Measuring Point Description: TOC |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| WELL PURGE VOLUME | Total Depth (feet) | Depth to Water (feet) | Water Column (feet) | Multiplier for Casing Diameter |  |  |  | Casing Volume (gal) | Total Purge Volume (gal) |
| calculation | $7.63$ <br> 5.52 <br> Z. 11 |  |  | $\begin{array}{l\|} \hline x \\ x \\ \hline 0.04 \end{array}$ | $\frac{2}{2}$ | 4 6 <br> 6.64 1.44 |  | $1.35 \Rightarrow 4.05$ |  |


| PURGING DATA <br> Purge Method: | WATERRA | AILER / SUB | Purge Depth: | Screen | Purge Rate: | (gpm) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| тime $=4$ | 13:26 |  | $1$ |  |  |  |
| Volume Purge (gal) | 1.5 | 3.0 | $4.5$ |  |  |  |
| Temperature (C) | 24.4 |  | 7 |  |  |  |
|  | 6.86 | $1$ | 1 |  |  |  |
| SpeciCond. (umhos) | 1175 | 7 | 1 |  |  |  |
| TurbidityColor | cur/are | 7 | 1 |  |  |  |
| Odor(YN) : | 4 | 1 | 1 |  |  |  |
| Dewatered (Y/N) | N | 14 |  |  |  |  |

Comments/Observations:

$$
\text { Woll Deviartacers } 6 \text { Z coralioers }
$$

## SAMPLING DATA

| Time Sampled: | $13: 40$ |  | Approximate Depth to Water During Sampling: 7 |  |  | (feet) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Comments: |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| Sample Number | Number of Containers | Container Type | Preservative | Volume Filled (mL or L) | Turbidity/ Cólor | Analysis Method |
| EA9 | 6 | VOA | HCL | 40ML | $\sim$ | SEE COC |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| Total Purge Volume: $Z$ (gallons) Disposal: |  |  |  |  |  |  |


| Weather Conditions: cueare sunm Jof yok | BOLTS | Y | 1 | (N) |
| :---: | :---: | :---: | :---: | :---: |
| Condition of Well Box and Casing at Time of Sampling: ok | CAP \& LOCK $\bigcirc$ |  | 1 | N |
| Well Head Conditions Requiring Correction: Nowe | GROUT | Y |  | (N) |
| Problems Encountered During Purging and Sampling: Wowe- | WELL BOX | (P) | 1 | N |
| Comments: | SECURED | (Y) | 1 | N |



| Project Name: | VALERO-13781-2Q08 | Well No: EA11 | Date: Co.Lo.0४ |
| :--- | :--- | :--- | :--- |
| Project No: | $3000048-0003-206$ | Personnel: | W.J. Paculba |

## GAUGING DATA

Water Level Measuring Method: WLM I IP
Measuring Point Description: TOC



## SAMPLING DATA


Total Purge Volume: 12 (gallons) Disposal:



| Project Name: | VALERO-13781-2Q08 | Well No: EA12 | Date: Co. Lo. OY |
| :--- | :--- | :--- | :--- |
| Project No: | $3000048-0003-206$ | Personnel: | W.J. Paculba |




Comments/Observations:
Well newifekco es 16.5 gidlions

## SAMPLING DATA

Time Sampled: lb: LO
Approximate Depth to Water During Sampling: 4
(feet)
Comments:

| Sample Number | Number of <br> Containers | Container Type | Preservative | Volume Filled <br> (mL or $L$ ) | Turbidity/ Color | Analysis <br> Method |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| EA12 | 6 | VOA | HCL | 40 ML |  | SEE CDC |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

Total Purge Volume: 16.5 (gallons)
Weather Conditions: dome suath oof. Vo Condition of Well Box and Casing at Time of Sampling: of
Well Head Conditions Requiring Correction:
Problems Encountered During Purging and Sampling: WEe Dewareriso
Comments:

Disposal:


| Project Name: | VALERO-13781-2Q08 | Well No: EA13 | Date: Co.lo.06 |
| :--- | :--- | :--- | :--- |
| Project No: | $3000048-0003-206$ | Personnel: | W.J. Paculba |

## GAUGING DATA

| Water Level Measuring Method. WIM I IP |  |  | Measuring Point Description: TOC |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| WELL PURGE VOLUME | Total Depth (feet) | Depth to Water (feet) | Water Column (feet) | Multiplier for Casing Diameter |  |  |  | Casing Volume (gal) | Total Purge Volume (gal) |
| CALCULATION | $14.99$ | $5.44$ | $9.55$ |  | 2 | (4) | ${ }_{1}^{6}$ | . 11 | $18.33$ |


| PURGING DATA |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Purge Method: $\quad$ VATERRA / BAILER / SUB |  |  | Purge Depth: | Screen | Purge Rate: | (gpm) |
| Time | $16: 40$ | $17 \cdot 03$ |  |  |  |  |
| Volume Purge (gal) | 6.5 | 13,0 | 19.5 |  |  |  |
| Temperature (C) | z2.4 | 21.4 | 1 |  |  |  |
| pH | 6.67 | 6.67 | 1 |  |  |  |
| Spec.Cond. (umnos) | $>3999$ | $>3999$ | 1 |  |  |  |
| Turbiditiy/Color | dure /are | oure/are |  |  |  |  |
| Odor (YIN) | $N$ | $N$ |  |  |  |  |
| Dewatered (YiN) | N | $\cdots$ | 4 |  |  |  |
| Comments/Observations: |  |  |  |  |  |  |
| WELC DSNATERSDC 14 CgALMOUS |  |  |  |  |  |  |

## -

## SAMPLING DATA

Time Sampled: $17: 15$
Approximate Depth to Water During Sampling: $\ddagger$ (feet)
Comments:

| Sample Number | Number of <br> Containers | Container Type | Preservative | Volume Filled <br> (mL or L $)$ | Turbidity/ Color | Analysis <br> Method |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| EA13 | 6 | VOA | HCL | 40 ML |  | SEE COC |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |


| Total Purge Volume: 14 (gallons) Disposal: |  |
| :---: | :---: |
| Weather Conditions: CuOnR Sunum Jof-rof | BOLTS $\quad Y /(N)$ |
| Condition of Well Box and Casing at Time of Sampling: ork | CAP \& LOCK ${ }^{\text {P }} 1 \mathrm{~N}$ |
| Well Head Conditions Requiring Correction: Nowe | GROUT $Y$, (N) |
| Problems Encountered During Purging and Sampling: Wow Dowhricsul | WELL BOX © $\mathrm{N}^{\text {N }}$ |
| Comments: | SECURED (Y) / N |


| Project Name: | VALERO-13781-2Q08 | Well No: EA14 | Date: Co.ll. O8 |
| :--- | :--- | :--- | :--- |
| Project No: | $\mathbf{3 0 0 0 0 4 8 - 0 0 0 3 - 2 0 6}$ | Personnel: | W.J. Paculba |


| GAUGING DATA |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| WELL PURGE VOLUME | Total Depth (feet) | Depth to Water (feet) | Water Column (feet) |  |  |  | or eter | Casing Volume (gal) | Total Purge Volume (gal) |
| calculation | $8.43$ | $3.15$ | $5.2 \gamma$ |  | 0.16 |  |  | $3.37$ | $10.13$ |


| PURGING DAT <br> Purge Method | WATERRA $\perp B A$ | ILER / SUB | Purge Depth: | Screen | Purge Rate: | (gpm) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Time | 7:2' | 7142 |  | 7 |  |  |
| Volume Purge (gal) | 3.5 | 7.0 | 20.5 |  |  |  |
| Temperature( $C$ ) | 225 | 21.9 | 7 |  |  |  |
| pH | 7. 11 | 7.23 | 1 |  |  |  |
| Spec.Cond.fumhos) | 1411 | 1621 | 1 |  |  |  |
| Turbidity/Color | are /ar | cher /ank | 1 |  |  |  |
| Odor (YIN) | N | $N$ | / |  |  |  |
| Dewatered (YN) | $N$ | $N$ | 4 |  |  |  |
| Comments/Observations: |  |  |  |  |  |  |
| WGu DSWGTERED (d) 7.5 catlows |  |  |  |  |  |  |

## SAMPLING DATA

Time Sampled: $\quad$ \&-oo
Approximate Depth to Water During Sampling: 4
(feet)

## Comments:

| Sample Number | Number of <br> Containers | Container Type | Preservative | Volume Filled <br> $(\mathrm{mL}$ or L$)$ | Turbidity/Color | Analysis <br> Method |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| EA14 | 6 | VOA | HCL | 40 ML |  |  |
|  |  |  |  |  |  | SEE COC |
|  |  |  |  |  |  |  |

Total Purge Volume: 7.5
(gallons)
Disposal:

| Weather Conditions: Owemer, SuNNM. Hof-\%of | BOLTS | $Y /(N$ |
| :---: | :---: | :---: |
| Condition of Well Box and Casing at Time of Sampling: of | CAP \& LOCK | (8) 1 N |
| Well Head Conditions Requiring Correction: Nowt | GROUT | $\mathrm{Y} / \widehat{\mathrm{N}}$ |
| Problems Encountered During Purging and Sampling: Wexi ntwarcousd | WELL BOX | Q/ N |
| Comments: | SECURED | (v) 1 N |

GROUNDWATER PURGE AND SAMPLE

| Project Name: | VALERO-13781-2Q08 | Well No: EA15 | Date: $6 \cdot 11.08$ |
| :--- | :--- | :--- | :--- |
| Project No: | $3000048-0003-206$ | Personnel: W.J. Paculba |  |

GAUGING DATA
Water Level Measuring Method: (WLM) / IP Measuring Point Description: TOC




Mark Peterson<br>Groundwater \& Environmental Services, Inc. 5046 Commercial Circle<br>Concord, CA 94520<br>Subject : 14 Water Samples<br>Project Name: Valero-13781-1Q08<br>Project Number : 3000048

Dear Mr. Peterson,

Chemical analysis of the samples referenced above has been compieted. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (\# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,


Report Number : 63193
Date: 06/19/2008

Project Name: Valero-13781-1Q08
Project Number : 3000048
Sample : EA1
Sample Date :06/11/2008

Approved By:


Project Name: Valero-13781-1Q08
Project Number : 3000048

Sample: EA2
Sample Date :06/11/2008

| Parameter | $\begin{aligned} & \text { Measured } \\ & \text { Value } \\ & \hline \end{aligned}$ | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Benzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 06/17/2008 |
| Toluene | $<0.50$ | 0.50 | ug/L | EPA 8260B | 06/17/2008 |
| Ethylbenzene | $<0.50$ | 0.50 | ug/L | EPA 8260B | 06/17/2008 |
| Total Xylenes | < 0.50 | 0.50 | ug/L | EPA 8260B | 06/17/2008 |
| Methyl-t-butyl ether (MTBE) | 4.8 | 0.50 | ug/L | EPA 8260B | 06/17/2008 |
| Tert-Butanol | 40 | 5.0 | ug/L | EPA 8260B | 06/17/2008 |
| TPH as Gasoline | $<50$ | 50 | ug/L | EPA 8260B | 06/17/2008 |
| 1,2-Dichloroethane-d4 (Surr) | 97.2 |  | \% Recovery | EPA 8260B | 06/17/2008 |
| Toluene - d8 (Surr) | 100 |  | \% Recovery | EPA 8260B | 06/17/2008 |
| TPH as Diesel | $<50$ | 50 | ug/L | M EPA 8015 | 06/14/2008 |
| Octacosane (Diesel Surrogate) | 109 |  | \% Recovery | M EPA 8015 | 06/14/2008 |

Approved By:


Project Name : Valero-13781-1Q08
Project Number : 3000048

Sample: EA3
Sample Date :06/11/2008

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Benzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 06/17/2008 |
| Toluene | < 0.50 | 0.50 | ug/L | EPA 8260B | 06/17/2008 |
| Ethylbenzene | $<0.50$ | 0.50 | ug/L | EPA 8260B | 06/17/2008 |
| Total Xylenes | < 0.50 | 0.50 | ug/L | EPA 8260B | 06/17/2008 |
| Methyl-t-butyl ether (MTBE) | 13 | 0.50 | ug/L | EPA 8260B | 06/17/2008 |
| Tert-Butanol | 56 | 5.0 | ug/L | EPA 8260B | 06/17/2008 |
| TPH as Gasoline | 320 | 50 | ug/L | EPA 8260B | 06/17/2008 |
| 1,2-Dichloroethane-d4 (Surr) | 99.2 |  | \% Recovery | EPA 8260B | 06/17/2008 |
| Toluene - d8 (Surr) | 97.9 |  | \% Recovery | EPA 8260B | 06/17/2008 |
| TPH as Diesel | $<600$ | 600 | ug/L | M EPA 8015 | 06/14/2008 |

(Note: MRL increased due to interference from Gasoline-range hydrocarbons.)

|  |  |  |  | Report Number: 63193 <br> Date: 06/19/2008 |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |
| Project Name: Valero-13781-1Q08 |  |  |  |  |  |
| Project Number : 3000048 |  |  |  |  |  |
| Sample : EA5 |  | Matrix : | Vater | Lab Num | 93-04 |
| Sample Date :06/11/2008 |  |  |  |  |  |
| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
| Benzene | 22 | 0.50 | ug/L | EPA 8260B | 06/17/2008 |
| Toluene | 1.9 | 0.50 | ug/L | EPA 8260B | 06/17/2008 |
| Ethylbenzene | 0.78 | 0.50 | ug/L | EPA 8260B | 06/17/2008 |
| Total Xylenes | 2.0 | 0.50 | ug/L | EPA 8260B | 06/17/2008 |
| Methyl-t-butyl ether (MTBE) | 120 | 0.50 | ug/L | EPA 8260B | 06/17/2008 |
| Tert-Butanol | 880 | 5.0 | ug/L | EPA 8260B | 06/17/2008 |
| TPH as Gasoline | 420 | 50 | ug/L | EPA 8260B | 06/17/2008 |
| 1,2-Dichloroethane-d4 (Surr) | 97.4 |  | \% Recovery | EPA 8260B | 06/17/2008 |
| Toluene - d8 (Surr) | 96.8 |  | \% Recovery | EPA 8260B | 06/17/2008 |
| TPH as Diesel | 320 | 50 | ug/L | M EPA 8015 | 06/14/2008 |
| Octacosane (Diesel Surrogate) | 105 |  | \% Recovery | M EPA 8015 | 06/14/2008 |

Report Number: 63193
Date: 06/19/2008

Project Name: Valero-13781-1Q08
Project Number : 3000048

Sample Date :06/10/2008

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Benzene | 200 | 0.50 | ug/L | EPA 8260B | 06/17/2008 |
| Toluene | 16 | 0.50 | ug/L | EPA 8260 B | 06/17/2008 |
| Ethylbenzene | 21 | 0.50 | ug/L | EPA 8260B | 06/17/2008 |
| Total Xylenes | 24 | 0.50 | ug/L | EPA 8260B | 06/17/2008 |
| Methyl-t-butyl ether (MTBE) | 140 | 0.50 | ug/L | EPA 8260B | 06/17/2008 |
| Tert-Butanol | 570 | 5.0 | ug/L | EPA 8260B | 06/17/2008 |
| TPH as Gasoline | 2100 | 50 | ug/L | EPA 8260B | 06/17/2008 |
| 1,2-Dichloroethane-d4 (Surr) | 91.5 |  | \% Recovery | EPA 8260B | 06/17/2008 |
| Toluene - d8 (Surr) | 93.2 |  | \% Recovery | EPA 8260B | 06/17/2008 |
| TPH as Diesel | $<400$ | 400 | ug/L | M EPA 8015 | 06/14/2008 |

Octacosane (Diesel Surrogate) $117 \quad$ \% Recovery M EPA $8015 \quad$ 06/14/2008

Approved By:


Project Name: Valero-13781-1Q08
Project Number : $\mathbf{3 0 0 0 0 4 8}$
Sample : EA8 Matrix : Water Lab Number: 63193-06

Sample Date :06/11/2008

| Parameter | Measured <br> Value | Method <br> Reporting <br> Limit | Units | Analysis <br> Method | Date <br> Analyzed |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Benzene | 22 | 0.50 | $\mathrm{ug} / \mathrm{L}$ | EPA 8260B | $06 / 19 / 2008$ |
| Toluene | $<0.50$ | 0.50 | $\mathrm{ug} / \mathrm{L}$ | EPA 8260B | $06 / 19 / 2008$ |
| Ethylbenzene | $<0.50$ | 0.50 | $\mathrm{ug} / \mathrm{L}$ | EPA 8260B | $06 / 19 / 2008$ |
| Total Xylenes | $<0.50$ | 0.50 | $\mathrm{ug} / \mathrm{L}$ | EPA 8260B | $06 / 19 / 2008$ |
| Methyl-t-butyl ether (MTBE) | $<0.50$ | 0.50 | $\mathrm{ug} / \mathrm{L}$ | EPA 8260B | $06 / 19 / 2008$ |
| Tert-Butanol | $<5.0$ | 5.0 | $\mathrm{ug} / \mathrm{L}$ | EPA 8260B | $06 / 19 / 2008$ |
| TPH as Gasoline | 120 | 50 | $\mathrm{ug} / \mathrm{L}$ | EPA 8260B | $06 / 19 / 2008$ |
| 1,2-Dichloroethane-d4 (Surr) | 99.4 |  | \% Recovery | EPA 8260B | $06 / 19 / 2008$ |
| Toluene - d8 (Surr) | 98.3 |  | \% Recovery | EPA 8260B | $06 / 19 / 2008$ |
| TPH as Diesel | 130 | 50 | ug/L | M EPA 8015 | $06 / 14 / 2008$ |
| Octacosane (Diesel Surrogate) | 109 |  | \% Recovery | M EPA 8015 | $06 / 14 / 2008$ |

Sample : EA9 Matrix : Water Lab Number:63193-07

Sample Date :06/10/2008

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Benzene | 14 | 0.50 | ug/L | EPA 8260B | 06/18/2008 |
| Toluene | 2.3 | 0.50 | ug/L | EPA 8260B | 06/18/2008 |
| Ethylbenzene | 1.0 | 0.50 | ug/L | EPA 8260B | 06/18/2008 |
| Total Xylenes | 3.2 | 0.50 | $u g / L$ | EPA 8260B | 06/18/2008 |
| Methyl-t-butyl ether (MTBE) | 13 | 0.50 | ug/L | EPA 8260B | 06/18/2008 |
| Tert-Butanol | 270 | 5.0 | $u g / L$ | EPA 8260B | 06/18/2008 |
| TPH as Gasoline | 1200 | 50 | ug/L | EPA 8260B | 06/18/2008 |
| 1,2-Dichioroethane-d4 (Surr) | 96.5 |  | \% Recovery | EPA 8260B | 06/18/2008 |
| Toluene - d8 (Surr) | 96.2 |  | \% Recovery | EPA 8260B | 06/18/2008 |
| TPH as Diesel <br> (Note: MRL increased due to in | $\begin{aligned} & <200 \\ & \text { om Gasoline } \end{aligned}$ | $200$ <br> ange hydro | ug/L <br> arbons.) | M EPA 8015 | 06/14/2008 |
| Octacosane (Diesel Surrogate) | 109 |  | \% Recovery | M EPA 8015 | 06/14/2008 |

Report Number : 63193
Date: 06/19/2008

## Analytical uc

Project Name: Valero-13781-1Q08
Project Number : 3000048

| Sample : EA10 |  | Matrix : Water |  | Lab Number : 63193-08 |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Sample Date :06/10/2008 |  |  |  |  |  |
| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
| Benzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 06/17/2008 |
| Toluene | $<0.50$ | 0.50 | ug/L | EPA 8260B | 06/17/2008 |
| Ethylbenzene | $<0.50$ | 0.50 | ug/L | EPA 8260B | 06/17/2008 |
| Total Xylenes | $<0.50$ | 0.50 | ug/L | EPA 8260B | 06/17/2008 |
| Methyl-t-butyl ether (MTBE) | 1.1 | 0.50 | $u g / L$ | EPA 8260B | 06/17/2008 |
| Tert-Butanol | < 5.0 | 5.0 | ug/L | EPA 8260B | 06/17/2008 |
| TPH as Gasoline | $<50$ | 50 | ug/L | EPA 8260B | 06/17/2008 |
| 1,2-Dichloroethane-d4 (Surr) | 102 |  | \% Recovery | EPA 8260B | 06/17/2008 |
| Toluene - d8 (Surr) | 99.8 |  | \% Recovery | EPA 8260B | 06/17/2008 |
| TPH as Diesel | $<50$ | 50 | ug/L | M EPA 8015 | 06/14/2008 |
| Octacosane (Diesel Surrogate) | 108 |  | \% Recovery | M EPA 8015 | 06/14/2008 |

Approved By:


Report Number: 63193
Date: 06/19/2008

Project Name: Valero-13781-1Q08
Project Number : $\mathbf{3 0 0 0 0 4 8}$

Sample: EA11
Sample Date :06/10/2008

|  | Measured <br> Value | Method <br> Reporting <br> Limit | Units | Analysis <br> Method | Date <br> Analyzed |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Parameter | $<0.50$ | 0.50 | $\mathrm{ug} / \mathrm{L}$ | EPA 8260B | $06 / 17 / 2008$ |
| Benzene | $<0.50$ | 0.50 | $\mathrm{ug} / \mathrm{L}$ | EPA 8260B | $06 / 17 / 2008$ |
| Toluene | $<0.50$ | 0.50 | $\mathrm{ug} / \mathrm{L}$ | EPA 8260B | $06 / 17 / 2008$ |
| Ethylbenzene | $<0.50$ | 0.50 | $\mathrm{ug} / \mathrm{L}$ | EPA 8260B | $06 / 17 / 2008$ |
| Total Xylenes | 15 | 0.50 | $\mathrm{ug} / \mathrm{L}$ | EPA 8260B | $06 / 17 / 2008$ |
| Methyl-t-butyl ether (MTBE) | 9.1 | 5.0 | $\mathrm{ug} / \mathrm{L}$ | EPA 8260B | $06 / 17 / 2008$ |
| Tert-Butanol | $<50$ | 50 | $\mathrm{ug} / \mathrm{L}$ | EPA 8260B | $06 / 17 / 2008$ |
| TPH as Gasoline | 99.5 |  | \% Recovery | EPA 8260B | $06 / 17 / 2008$ |
| 1,2-Dichloroethane-d4 (Surr) | 100 |  | \% Recovery | EPA 8260B | $06 / 17 / 2008$ |
| Toluene - d8 (Surr) | 140 | 50 | ug/L | M EPA 8015 | $06 / 14 / 2008$ |
| TPH as Diesel | 111 |  | \% Recovery | M EPA 8015 | $06 / 14 / 2008$ |



Report Number: 63193
Date: 06/19/2008

Sample: EA12
Sample Date :06/10/2008

| Parameter | Measured <br> Value | Method <br> Reporting <br> Limit | Units | Analysis <br> Method | Date <br> Analyzed |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Benzene | $<0.50$ | 0.50 | $\mathrm{ug} / \mathrm{L}$ | EPA 8260B | $06 / 17 / 2008$ |
| Toluene | $<0.50$ | 0.50 | $\mathrm{ug} / \mathrm{L}$ | EPA 8260B | $06 / 17 / 2008$ |
| Ethylbenzene | $<0.50$ | 0.50 | $\mathrm{ug} / \mathrm{L}$ | EPA 8260B | $06 / 17 / 2008$ |
| Total Xylenes | $<0.50$ | 0.50 | $\mathrm{ug} / \mathrm{L}$ | EPA 8260B | $06 / 17 / 2008$ |
| Methyl-t-butyl ether (MTBE) | $<0.50$ | 0.50 | $\mathrm{ug} / \mathrm{L}$ | EPA 8260B | $06 / 17 / 2008$ |
| Tert-Butanol | $<5.0$ | 5.0 | $\mathrm{ug} / \mathrm{L}$ | EPA 8260B | $06 / 17 / 2008$ |
| TPH as Gasoline | $<50$ | 50 | $\mathrm{ug} / \mathrm{L}$ | EPA 8260B | $06 / 17 / 2008$ |
| 1,2-Dichloroethane-d4 (Surr) | 102 |  | \% Recovery | EPA 8260B | $06 / 17 / 2008$ |
| Toluene - d8 (Surr) | 99.5 |  | \% Recovery | EPA 8260B | $06 / 17 / 2008$ |
| TPH as Diesel | $<50$ | 50 | ug/L | M EPA 8015 | $06 / 14 / 2008$ |
| Octacosane (Diesel Surrogate) | 109 |  | \% Recovery | M EPA 8015 | $06 / 14 / 2008$ |



Project Name: Valero-13781-1Q08
Project Number : 3000048

Sample: EA13
Sample Date :06/10/2008

|  | Measured <br> Value | Method <br> Reporting <br> Limit | Units | Analysis <br> Method | Date <br> Analyzed |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Benzene | $<0.50$ | 0.50 | $\mathrm{ug} / \mathrm{L}$ | EPA 8260B | $06 / 17 / 2008$ |
| Toluene | $<0.50$ | 0.50 | $\mathrm{ug} / \mathrm{L}$ | EPA 8260B | $06 / 17 / 2008$ |
| Ethylbenzene | $<0.50$ | 0.50 | $\mathrm{ug} / \mathrm{L}$ | EPA 8260B | $06 / 17 / 2008$ |
| Total Xylenes | $<0.50$ | 0.50 | $\mathrm{ug} / \mathrm{L}$ | EPA 8260B | $06 / 17 / 2008$ |
| Methyl-t-butyl ether (MTBE) | $<0.50$ | 0.50 | $\mathrm{ug} / \mathrm{L}$ | EPA 8260B | $06 / 17 / 2008$ |
| Tert-Butanol | $<5.0$ | 5.0 | ug/L | EPA 8260B | $06 / 17 / 2008$ |
| TPH as Gasoline | $<50$ | 50 | ug/L | EPA 8260B | $06 / 17 / 2008$ |
| 1,2-Dichioroethane-d4 (Surr) | 101 |  | \% Recovery | EPA 8260B | $06 / 17 / 2008$ |
| Toluene - d8 (Surr) | 99.4 |  | \% Recovery | EPA 8260B | $06 / 17 / 2008$ |
| TPH as Diesel | 99 | 50 | ug/L | M EPA 8015 | $06 / 16 / 2008$ |
| Octacosane (Diesel Surrogate) | 110 |  | \% Recovery | M EPA 8015 | $06 / 16 / 2008$ |

Project Name: Valero-13781-1Q08
Project Number : 3000048

| Sample: EA14 |  | Matrix : | Vater | Lab Numb | 93-12 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Sample Date :06/11/2008 |  |  |  |  |  |
| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date <br> Analyzed |
| Benzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 06/18/2008 |
| Toluene | $<0.50$ | 0.50 | ug/L | EPA 8260B | 06/18/2008 |
| Ethylbenzene | $<0.50$ | 0.50 | ug/L | EPA 8260B | 06/18/2008 |
| Total Xylenes | $<0.50$ | 0.50 | ug/L | EPA 8260B | 06/18/2008 |
| Methyl-t-butyl ether (MTBE) | < 0.50 | 0.50 | ug/L | EPA 8260B | 06/18/2008 |
| Tert-Butanol | $<5.0$ | 5.0 | ug/L | EPA 8260B | 06/18/2008 |
| TPH as Gasoline | $<50$ | 50 | ug/L | EPA 8260B | 06/18/2008 |
| 1,2-Dichloroethane-d4 (Surr) | 105 |  | \% Recovery | EPA 8260B | 06/18/2008 |
| Toluene - d8 (Surr) | 103 |  | \% Recovery | EPA 8260B | 06/18/2008 |
| TPH as Diesel | $<50$ | 50 | ug/L | M EPA 8015 | 06/14/2008 |
| Octacosane (Diesel Surrogate) | 111 |  | \% Recovery | M EPA 8015 | 06/14/2008 |



Sample: EA15
Matrix : Water Lab Number : 63193-13
Sample Date :06/11/2008

| Parameter | Measured <br> Value | Method <br> Reporting <br> Limit | Units | Analysis <br> Method | Date <br> Analyzed |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Benzene | $<0.50$ | 0.50 | $\mathrm{ug} / \mathrm{L}$ | EPA 8260B | $06 / 18 / 2008$ |
| Toluene | $<0.50$ | 0.50 | $\mathrm{ug} / \mathrm{L}$ | EPA 8260B | $06 / 18 / 2008$ |
| Ethylbenzene | $<0.50$ | 0.50 | $\mathrm{ug} / \mathrm{L}$ | EPA 8260B | $06 / 18 / 2008$ |
| Total Xylenes | $<0.50$ | 0.50 | $\mathrm{ug} / \mathrm{L}$ | EPA 8260B | $06 / 18 / 2008$ |
| Methyl-t-butyl ether (MTBE) | 0.98 | 0.50 | $\mathrm{ug} / \mathrm{L}$ | EPA 8260B | $06 / 18 / 2008$ |
| Tert-Butanol | $<5.0$ | 5.0 | $\mathrm{ug} / \mathrm{L}$ | EPA 8260B | $06 / 18 / 2008$ |
| TPH as Gasoline | $<50$ | 50 | $\mathrm{ug} / \mathrm{L}$ | EPA 8260B | $06 / 18 / 2008$ |
| 1,2-Dichloroethane-d4 (Surr) | 101 |  | \% Recovery | EPA 8260B | $06 / 18 / 2008$ |
| Toluene - d8 (Surr) | 102 |  | \% Recovery | EPA 8260B | $06 / 18 / 2008$ |
| TPH as Diesel | 180 | 50 | ug/L | M EPA 8015 | $06 / 14 / 2008$ |
| Octacosane (Diesel Surrogate) | 104 |  | \% Recovery | M EPA 8015 | $06 / 14 / 2008$ |



Project Name: Valero-13781-1Q08
Project Number : 3000048

Sample: EA16
Sample Date :06/11/2008

|  | Measured <br> Value | Method <br> Reporting <br> Limit | Units | Analysis <br> Method | Date <br> Analyzed |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Parameter | $<0.50$ | 0.50 | $\mathrm{ug} / \mathrm{L}$ | EPA 8260B | $06 / 17 / 2008$ |
| Benzene | $<0.50$ | 0.50 | $\mathrm{ug} / \mathrm{L}$ | EPA 8260B | $06 / 17 / 2008$ |
| Toluene | $<0.50$ | 0.50 | $\mathrm{ug} / \mathrm{L}$ | EPA 8260B | $06 / 17 / 2008$ |
| Ethylbenzene | $<0.50$ | 0.50 | $\mathrm{ug} / \mathrm{L}$ | EPA 8260B | $06 / 17 / 2008$ |
| Total Xylenes | 16 | 0.50 | $\mathrm{ug} / \mathrm{L}$ | EPA 8260B | $06 / 17 / 2008$ |
| Methyl-t-butyl ether (MTBE) | 45 | 5.0 | $\mathrm{ug} / \mathrm{L}$ | EPA 8260B | $06 / 17 / 2008$ |
| Tert-Butanol | $<50$ | 50 | $\mathrm{ug} / \mathrm{L}$ | EPA 8260B | $06 / 17 / 2008$ |
| TPH as Gasoline | 103 |  | \% Recovery | EPA 8260B | $06 / 17 / 2008$ |
| 1,2-Dichloroethane-d4 (Surr) | 102 |  | \% Recovery | EPA 8260B | $06 / 17 / 2008$ |
| Toluene - d8 (Surr) | $<50$ | 50 | ug/L | M EPA 8015 | $06 / 17 / 2008$ |
| TPH as Diesel | 93.7 |  | \% Recovery | M EPA 8015 | $06 / 17 / 2008$ |

Approved By:

| Parameter | Measured Value | Method <br> Reporting Limit | Units | Analysis Method | Date <br> Analyzed |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Benzene | $<0.50$ | 0.50 | ug／L | EPA 8260B | 06／18／2008 |
| Ethylbenzene | $<0.50$ | 0.50 | ugiL | EPA 8260B | 06／18／2008 |
| Toluene | $<0.50$ | 0.50 | ug／L | EPA 8260B | 06／18／2008 |
| Total Xylenes | $<0.50$ | 0.50 | ug／L | EPA 8260B | 06／18／2008 |
| Methyl－t－butyl ether（MTBE） | $<0.50$ | 0.50 | ug／L | EPA 8260B | 06／18／2008 |
| Tert－Butanol | $<5.0$ | 5.0 | ug／ | EPA 8260B | 06／18／2008 |
| TPH as Gasoline | ＜ 50 | 50 | ug／L | EPA 8260B | 06／18／2008 |
| 1，2－Dichloroethane－d4（Surr） | 97.0 |  | \％ | EPA 8260B | 06／18／2008 |
| Toluene－d8（Surr） | 97.6 |  | \％ | EPA 8260B | 06／18／2008 |
| Benzene | $<0.50$ | 0.50 | ug／L | EPA 8260B | 06／18／2008 |
| Ethylbenzene | $<0.50$ | 0.50 | ug／L | EPA 8260B | 06／18／2008 |
| Toluene | $<0.50$ | 0.50 | ug／L | EPA 8260B | 06／18／2008 |
| Total Xylenes | $<0.50$ | 0.50 | ug／L | EPA 8260B | 06／18／2008 |
| Methyl－t－butyl ether（MTBE） | $<0.50$ | 0.50 | ug／L | EPA 8260B | 06／18／2008 |
| Tert－Butanol | $<5.0$ | 5.0 | ug／L | EPA 8260B | 06／18／2008 |
| TPH as Gasoline | ＜ 50 | 50 | ug／L | EPA 8260B | 06／18／2008 |
| 1，2－Dichloroethane－d4（Surr） | 100 |  | \％ | EPA 8260B | 06／18／2008 |
| Toluene－d8（Surr） | 96.6 |  | \％ | EPA 8260B | 06／18／2008 |
| Benzene | $<0.50$ | 0.50 | ug／L | EPA 8260B | 06／18／2008 |
| Ethylbenzene | $<0.50$ | 0.50 | ug／ | EPA 8260B | 06／18／2008 |
| Toluene | $<0.50$ | 0.50 | ug／L | EPA 8260B | 06／18／2008 |
| Total Xylenes | $<0.50$ | 0.50 | ug／L | EPA 8260B | 06／18／2008 |
| Methyl－t－butyl ether（MTBE） | $<0.50$ | 0.50 | ug／L | EPA 8260B | 06／18／2008 |
| Tert－Butanol | $<5.0$ | 5.0 | ug／L | EPA 8260B | 06／18／2008 |
| TPH as Gasoline | ＜ 50 | 50 | ug／L | EPA 8260B | 06／18／2008 |
| 1，2－Dichloroethane－d4（Surr） | 101 |  | \％ | EPA 8260B | 06／18／2008 |
| Toluene－d8（Surr） | 97.8 |  | \％ | EPA 8260B | 06／18／2008 |



Project Name：Valero－13781－1Q08
Project Number：3000048
Method

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Toluene－ 18 （Surr）

Project Name: Valero-13781-1008
Project Number: $\mathbf{3 0 0 0 0 4 8}$ Date: 06/19/2008

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EPA 8260B 06/17/2008 EPA 8260B 06/17/2008 EPA 8260B 06/17/2008 EPA 8260B 06/17/2008 $\begin{array}{ll}\text { EPA 8260B } & 06 / 17 / 2008 \\ \text { EPA 8260B } & 06 / 17 / 2008\end{array}$ $\begin{array}{ll}\text { EPA 8260B } & 06 / 17 / 2008 \\ \text { EPA 8260B } & 06 / 17 / 2008\end{array}$ $\begin{array}{ll}\text { EPA 8260B } & 06 / 17 / 2008 \\ \text { EPA 8260B } & 06 / 17 / 2008\end{array}$ $\begin{array}{ll}\text { EPA 8260B } & 06 / 17 / 2008 \\ \text { EPA 8260B } & 06 / 17 / 2008\end{array}$ $\begin{array}{lllll} & & \text { Method } & & \\ \text { Parameter } & \begin{array}{l}\text { Measured }\end{array} & \begin{array}{l}\text { Reporting } \\ \text { Repaly }\end{array} & \begin{array}{l}\text { Analysis } \\ \text { Limit }\end{array} & \begin{array}{l}\text { Date } \\ \text { Method }\end{array} \\ \text { Analyzed }\end{array}$

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 Total Xylenes
Methyl-t-butyl ether (MTBE)
Ter-Butanol
TPH as Gasoline
1,2-Dichloroethane-d4 (Surr)
Toluene - d8 (Surr)

[^5]| Parameter | Spiked Sample | Sample Value | Spike Level | Spike Dup. Level | Spiked Sample Value | Duplicate <br> Spiked <br> Sample <br> Value | Units | Analysis Method | Date Analyzed | Spiked <br> Sample <br> Percent <br> Recov. | Duplicate <br> Spiked <br> Sample <br> Percent <br> Recov. | Relative Percent Diff. | Spiked <br> Sample <br> Percent <br> Recov. <br> Limit | Relative Percent Diff. <br> Limit |
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| TPH as Diesel | BLANK | <50 | 1000 | 1000 | 1050 | 1070 | ug/L | M EPA 8015 | 6/14/08 | 105 | 107 | 1.67 | 70-130 | 25 |
| TPH as Diesel | BLANK | < 50 | 1000 | 1000 | 1080 | 1090 | ug/L | M EPA 8015 | 6/16/08 | 108 | 109 | 1.45 | 70-130 | 25 |
| TPH as Diesel | BLANK | < 50 | 1000 | 1000 | 978 | 1020 | ug/L | M EPA 8015 | 6/17/08 | 97.8 | 102 | 4.14 | 70-130 | 25 |
| Benzene | 63193-02 | <0.50 | 40.0 | 40.1 | 37.8 | 37.7 | ug/L | EPA 8260B | 6/17/08 | 94.4 | 93.9 | 0.527 | 70-130 | 25 |
| Methyl-t-butyl ether | 63193-02 | 4.8 | 40.0 | 40.1 | 38.5 | 39.0 | ug/L | EPA 8260B | 6/17/08 | 84.2 | 85.3 | 1.34 | 70-130 | 25 |
| Tert-Butanol | 63193-02 | 40 | 200 | 200 | 246 | 244 | ug/L | EPA 8260B | 6/17/08 | 103 | 102 | 1.28 | 70-130 | 25 |
| Toluene | 63193-02 | <0.50 | 39.5 | 39.5 | 38.3 | 37.9 | ug/L | EPA 8260B | 6/17/08 | 97.1 | 95.8 | 1.42 | 70-130 | 25 |
| Benzene | 63148-03 | <0.50 | 40.1 | 40.1 | 38.1 | 37.2 | ug/L | EPA 8260B | 6/17/08 | 94.9 | 92.8 | 2.28 | 70-130 | 25 |
| Methyl-t-butyl ether | 63148-03 | 1.5 | 40.1 | 40.1 | 38.7 | 39.0 | ug/L | EPA 8260B | 6/17/08 | 92.9 | 93.7 | 0.795 | 70-130 | 25 |
| Tert-Butanol | 63148-03 | 40 | 200 | 200 | 237 | 236 | ug/L | EPA 8260B | 6/17/08 | 98.6 | 98.2 | 0.372 | 70-130 | 25 |
| Toluene | 63148-03 | <0.50 | 39.5 | 39.5 | 37.4 | 36.6 | $u \mathrm{~g} / \mathrm{L}$ | EPA 8260B | 6/17/08 | 94.6 | 92.5 | 2.34 | 70-130 | 25 |
| Benzene | 63242-01 | <0.50 | 40.1 | 40.1 | 36.8 | 36.2 | ug/L | EPA 8260B | 6/18/08 | 91.8 | 90.3 | 1.68 | 70-130 | 25 |
| Methyl-t-butyl ether | 63242-01 | <0.50 | 40.1 | 40.1 | 34.5 | 34.7 | ug/L | EPA 8260B | 6/18/08 | 86.0 | 86.5 | 0.618 | 70-130 | 25 |
| Tert-Butanol | 63242-01 | < 5.0 | 200 | 200 | 192 | 183 | $u g / L$ | EPA 8260B | 6/18/08 | 95.8 | 91.7 | 4.33 | 70-130 | 25 |
| Toluene | 63242-01 | <0.50 | 39.5 | 39.5 | 36.5 | 35.8 | ug/L | EPA 8260B | 6/18/08 | 92.4 | 90.7 | 1.87 | 70-130 | 25 |
| Benzene | 63242-04 | <0.50 | 40.1 | 40.1 | 39.9 | 38.4 | $u g / L$ | EPA 8260B | 6/18/08 | 99.4 | 95.8 | 3.75 | 70-130 | 25 |



| Spike | Duplicate <br> Spiked | Spiked <br> SampleDuplicate <br> Spiked <br> Sample |
| :--- | :--- | :--- | | Spiked |
| :---: |
| Sample | Relative


| Spike Spiked Spiked | Sample |
| :--- | :--- | :--- | :--- |
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| 1.4 | 0.102 | $70-130$ | 25 |

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$\stackrel{4}{\sim} \stackrel{\sim}{\sim} \stackrel{10}{\sim}$ Report Number： 63193
${ }^{4}$

Project Name: Valero-13781-1Q08
Project Number: $\mathbf{3 0 0 0 0 4 8}$
QC Report : Laboratory Control Sample (LCS)
Project Name: Valero-13781-1Q08
Project Number : 3000048

| Parameter | Spike Level | Units | Analysis Method | Date Analyzed | LCS Percent Recov. | LCS <br> Percen Recov. Limit |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Methyl-t-butyl ether | 40.2 | ug/L | EPA 8260B | 6/18/08 | 81.6 | 70-130 |
| Tert-Butanol | 200 | ug/L | EPA 8260B | 6/18/08 | 99.8 | 70-130 |
| Toluene | 40.1 | ug/L | EPA 8260B | 6/18/08 | 94.0 | 70-130 |

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5046 Commercial Circle •Suite F •Concord, California 94520 • (925) 825-1440 • Fax (925) 825-2021

Project 3000048


CALIFORTWA REGIONAL WATER
AUG 272008
Quality control goard

Dear Mr. Lambert:
Groundwater \& Environmental Services, Inc. (GES) has been retained by Valero Marketing and Supply Company (Valero) to perform groundwater monitoring of the above site. This report summarizes quarterly groundwater data collected June 10, 2008 and June 11, 2008, in accordance with reporting requirements of the Regional Water Quality Control Board. Historical monitoring data from the site has been incorporated into this report.

If you have any questions or concerns regarding this report, please contact the undersigned at (925) 8251440.

Sincerely,
Groundwater \& Environmental Services, Inc.


Mark C. Peterson, CEG \#2085
Principal Hydrogeologist
Attachments: Quarterly Monitoring Report - Second Quarter 2008
cc: $\quad$ Robert Ehlers Valero Energy Corporation, One Valero Way, San Antonio, TX 78249-1616 Mark Williams, Las Gallinas Valley Sanitary Sewer District, 300 Smith Ranch Rd, San Rafael, CA 94903


## COMMENTS:

If you have any questions regarding the contents of this document, please call Thomas Sparrowe at (510) 420-3316.


# GROUNDWATER MONITORING REPORT THIRD QUARTER 2008 

SHELL-BRANDED SERVICE STATION<br>950 DEL PRESIDIO BOULEVARD<br>SAN RAFAEL, CALIFORNIA

SAP CODE 136047
INCIDENT NO. 97707843
AGENCY NO. 21-0133 (REL)

October 22, 2008
REF. no. 241335 (1)
This report is printed on recycled paper.

Prepared by: Conestoga-Rovers \& Associates

5900 Hollis Street, Suite A Emeryville, California U.S.A. 94608

Office: (510) 420-0700
Fax: (510) 420-9170
web: http:llwww.CRAworld.com

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1.1 SITE INFORMATION ..... 1
2.0 SITE ACTIVITIES, FINDINGS, AND DISCUSSION ..... 2
2.1 CURRENT QUARTER'S ACTIVITIES ..... 2
2.2 CURRENT QUARTER'S FINDINGS ..... 2
2.3 PROPOSED ACTIVITIES FOR NEXT QUARTER ..... 2
2.4 DISCUSSION .....  2

# LIST OF FIGURES 

(Following Text)
FIGURE 1 VICINITY MAP
FIGURE 2 GROUNDWATER CONTOUR AND CHEMICAL CONCENTRATION MAP

## LIST OF APPENDICES

APPENDIX A
BLAINE TECH SERVICES, INC. - GROUNDWATER MONITORING REPORT

### 1.0 INTRODUCTION

Conestoga-Rovers \& Associates (CRA) prepared this report on behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell) in accordance with the quarterly reporting requirements of 23 CCR 2652d.

### 1.1 SITE INFORMATION

Site Address
Site Use
Shell Project Manager
CRA Project Manager
Lead Agency and Contact
Agency Case No.
Shell SAP Code
Shell Incident No.

950 Del Presidio Boulevard, San Rafael
Shell-branded Service Station
Denis Brown
Tom Sparrowe
RWQCB, Ralph Lambert
21-0133 (REL)
136047
97707843

Date of most recent agency correspondence was May 7, 2008 (electronic).

## SITE ACTIVITIES, FINDINGS, AND DISCUSSION

### 2.1 CURRENT QUARTER'S ACTIVITIES

Blaine Tech Services, Inc. (Blaine) gauged and sampled the wells according to the modified monitoring program for this site, as approved by the Regional Water Quality Control Board (RWQCB) in their May 7, 2008 electronic correspondence. All site wells, including the tank backfill well TB-1, were gauged this quarter, but only well MW-2 was sampled and analyzed for total petroleum hydrocarbons as diesel (TPHd), total petroleum as gasoline (TPHg), and benzene, toluene, ethylbenzene, and xylenes (BTEX). Wells MW-1, MW-3, MW-4, and TB-1 are sampled in the second and fourth quarters.

CRA prepared a vicinity map (Figure 1) and a groundwater contour and chemical concentration map (Figure 2). Blaine's report, presenting the analytical data, is included in Appendix A.

### 2.2 CURRENT QUARTER'S FINDINGS

| Groundwater Flow Direction | Southwesterly |
| :--- | :--- |
| Hydraulic Gradient | 0.02 |
| Depth to Water | 4.60 to 6.10 feet below top of well casing |

### 2.3 PROPOSED ACTIVITIES FOR NEXT QUARTER

Blaine will gauge and sample wells according to the modified monitoring program for this site.

Shell is negotiating an ownership transfer of monitoring wells EA9 (on Del Presidio Boulevard) and EA16 (located at 930 Del Presidio Boulevard) from Valero.

### 2.4 DISCUSSION

The groundwater flow direction this quarter is southwesterly with a gradient of 0.02 , and is consistent with historical groundwater flow direction previously observed at this site.

All site wells, including the tank backfill well TB-1, were gauged this quarter, but only well MW-2 was sampled and analyzed for TPHd, TPHg, and BTEX. Wells MW-1, MW-3, MW-4, and TB-1 are sampled in the second and fourth quarters. The sample from well MW-2 contained 79 micrograms per liter ( $\mu \mathrm{g} / \mathrm{L}$ ) TPHd, $5,400 \mu \mathrm{~g} / \mathrm{LTPHg}$, and $42 \mu \mathrm{~g} / \mathrm{L}$ benzene. The concentrations of TPHg and BTEX reported in well MW-2 this quarter were similar to that reported last quarter; however, the TPHd concentration decreased by two orders of magnitude, from 1,600 to $79 \mu \mathrm{~g} / \mathrm{L}$.

## All of Which is Respectfully Submitted,

## CONESTOGA-ROVERS \& ASSOCIATES

## Mommoreanome

Thomas A. Sparrowe, PG
Project Manager


Aubrey K. Cool, PG
Professional Geologist


## FIGURES




## APPENDIX A

BLAINE TECH SERVICES, INC. GROUNDWATER MONITORING REPORT

TECH SERVICES inc.

GROUNDWATER SAMPLING SPECIALISTS
SINCE 1985

September 24, 2008
Denis Brown
Shell Oil Products US
20945 South Wilmington Avenue
Carson, CA 90810

Third Quarter 2008 Groundwater Monitoring at<br>Shell-branded Service Station<br>950 Del Presidio Boulevard<br>San Rafael, CA

Monitoring performed on September 3, 2008

## Groundwater Monitoring Report 080903-JL-1

This report covers the routine monitoring of groundwater wells at this Shell-branded service station. In accordance with standard procedures that conform to Regional Water Quality Control Board requirements, routine field data collection includes depth to water, total well depth, thickness of any separate immiscible layer, water column volume, calculated purge volume (if applicable), elapsed evacuation time (if applicable), total volume of water removed (if applicable), and standard water parameter instrument readings. Sample material is collected, contained, stored, and transported to the laboratory in conformance with EPA standards. Purgewater (if applicable) is, likewise, collected and transported to the Martinez Refining Company.

Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of WELL CONCENTRATIONS. The full analytical report for the most recent samples and the field data sheets are attached to this report.

At a minimum, Blaine Tech Services, Inc. field personnel are certified on completion of a fortyhour Hazardous Materials and Emergency Response training course per 29 CFR 1910.120. Field personnel are also enrolled in annual eight-hour refresher courses.

Blaine Tech Services, Inc. conducts sampling and documentation assignments of this type as an independent third party. Our activities at this site consisted of objective data and sample collection only. No interpretation of analytical results, defining of hydrological conditions or formulation of recommendations was performed.

Please call if you have any questions.

Yours truly,

Eric Morse
Project Manager

## $\mathrm{EM} / \mathrm{tm}$

# attachments: Cumulative Table of WELL CONCENTRATIONS <br> Certified Analytical Report <br> Field Data Sheets 

cc: Dennis Baertschi
Conestoga-Rovers \& Associates
19449 Riverside Dr., Suite 230
Sonoma, CA 95476

## WELL CONCENTRATIONS <br> Shell Service Station 950 Del Presidio Boulevard <br> San Rafael, CA

| Well ID | Date | TPPH <br> (ug/L) | TEPH <br> (ug/L) | $\begin{gathered} \mathbf{B} \\ (\mathrm{ug} / \mathrm{L}) \end{gathered}$ | $\begin{gathered} \mathrm{T} \\ (\mathrm{ug} / \mathrm{L}) \end{gathered}$ | $\begin{gathered} E \\ (\mathrm{ug} / \mathrm{L}) \end{gathered}$ | $\begin{gathered} X \\ (u g / L) \end{gathered}$ | MTBE 8260 (ug/L) | $\begin{aligned} & \text { DIPE } \\ & \text { (ug/L) } \end{aligned}$ | $\begin{aligned} & \text { ETBE } \\ & \text { (ug/L) } \end{aligned}$ | TAME (ug/L) | TBA (ug/L) | $\begin{gathered} \text { TOC } \\ \text { (MSL) } \end{gathered}$ | Depth to Water (ft.) | GW Elevation (MSL) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |


| MW-1 | $5 / 31 / 2007$ | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 30.77 | 5.11 | 25.66 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| MW-1 | $6 / 11 / 2007$ | $<50 \mathrm{a}$ | $<50$ | $<0.50$ | $<1.0$ | $<1.0$ | $<1.0$ | $<1.0$ | $<2.0$ | $<2.0$ | $<2.0$ | $<10$ | 30.77 | 3.35 | 27.42 |
| MW-1 | $9 / 11 / 2007$ | $<50 \mathrm{a}$ | $<50 \mathrm{~b}$ | $<0.50$ | 0.29 d | $<1.0$ | 0.19 d | $<1.0$ | $<2.0$ | $<2.0$ | $<2.0$ | $<10$ | 30.77 | 6.61 | 24.16 |
| MW-1 | $12 / 11 / 2007$ | $<50 \mathrm{a}$ | $<50 \mathrm{~b}$ | $<0.50$ | $<1.0$ | $<1.0$ | $<1.0$ | $<1.0$ | $<2.0$ | $<2.0$ | $<2.0$ | $<10$ | 30.77 | 5.61 | 25.16 |
| MW-1 | $3 / 11 / 2008 \mathrm{e}$ | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 30.77 | 3.65 | 27.12 |
| MW-1 | $3 / 13 / 2008$ | $<50$ | $<50 \mathrm{~b}$ | $<0.50$ | $<1.0$ | $<1.0$ | $<1.0$ | $<1.0$ | $<2.0$ | $<2.0$ | $<2.0$ | $<10$ | 30.77 | 3.61 | 27.16 |
| MW-1 | $6 / 10 / 2008$ | $<50$ | $<50 \mathrm{~b}$ | $<0.50$ | $<1.0$ | $<1.0$ | $<1.0$ | NA | NA | NA | NA | NA | 30.77 | 4.81 | 25.96 |
| MW-1 | $9 / 3 / 2008$ | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 30.77 | 6.10 | 24.67 |


| MW-2 | $5 / 31 / 2007$ | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 29.23 | 2.51 | 26.72 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| MW-2 | $6 / 11 / 2007$ | $5,400 \mathrm{a}$ | 1,800 | 100 | 21 | 100 | 141 | 32 | $<2.0$ | $<2.0$ | $<2.0$ | 110 | 29.23 | 3.95 | 25.28 |
| MW-2 | $9 / 11 / 2007$ | $6,500 \mathrm{a}$ | $2,100 \mathrm{~b}, \mathrm{c}$ | 110 | 22 | 97 | 104 | 53 | $<2.0$ | $<2.0$ | $<2.0$ | 150 | 29.23 | 6.82 | 22.41 |
| MW-2 | $12 / 11 / 2007$ | $7,600 \mathrm{a}$ | $1,800 \mathrm{~b}$ | 93 | 23 | 100 | 99 | $<1.0$ | $<2.0$ | $<2.0$ | $<2.0$ | 130 | 29.23 | 3.97 | 25.26 |
| MW-2 | $3 / 11 / 2008 \mathrm{e}$ | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 29.23 | 2.27 | 26.96 |
| MW-2 | $3 / 13 / 2008$ | 6,200 | 1,400 b,c | 40 | 11 | 55 | 35.3 | $<1.0$ | $<2.0$ | $<2.0$ | $<2.0$ | 110 | 29.23 | 2.27 | 26.96 |
| MW-2 | $6 / 10 / 2008$ | 5,900 | 1,600 b,c | 41 | 11 | 57 | 39.2 | NA | NA | NA | NA | NA | 29.23 | 3.34 | 25.89 |
| MW-2 | $9 / 3 / 2008$ | 5,400 | 79 b | 42 | 11 | 38 | 38.2 | NA | NA | NA | NA | NA | $\mathbf{2 9 . 2 3}$ | 4.81 | $\mathbf{2 4 . 4 2}$ |


| MW-3 | $5 / 31 / 2007$ | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 30.32 | 5.53 | 24.79 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| MW-3 | $6 / 11 / 2007$ | 55 a | $<50$ | $<0.50$ | $<1.0$ | $<1.0$ | $<1.0$ | 3.2 | $<2.0$ | $<2.0$ | $<2.0$ | $<10$ | 30.32 | 5.31 | 25.01 |
| MW-3 | $9 / 11 / 2007$ | $<50 \mathrm{a}$ | $<50 \mathrm{~b}$ | $<0.50$ | $<1.0$ | $<1.0$ | $<1.0$ | 4.9 | $<2.0$ | $<2.0$ | $<2.0$ | $<10$ | 30.32 | 6.51 | 23.81 |
| MW-3 | $12 / 11 / 2007$ | $<50 \mathrm{a}$ | $<50 \mathrm{~b}$ | $<0.50$ | $<1.0$ | $<1.0$ | $<1.0$ | 5.8 | $<2.0$ | $<2.0$ | $<2.0$ | $<10$ | 30.32 | 5.79 | 24.53 |
| MW-3 | $3 / 11 / 2008 \mathrm{e}$ | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 30.32 | 3.90 | 26.42 |
| MW-3 | $3 / 13 / 2008$ | $<50$ | $<50 \mathrm{~b}$ | $<0.50$ | $<1.0$ | $<1.0$ | $<1.0$ | 2.8 | $<2.0$ | $<2.0$ | $<2.0$ | $<10$ | 30.32 | 3.99 | 26.33 |
| MW-3 | $6 / 10 / 2008$ | $<50$ | $<50 \mathrm{~b}$ | $<0.50$ | $<1.0$ | $<1.0$ | $<1.0$ | NA | NA | NA | NA | NA | 30.32 | 5.10 | 25.22 |
| MW-3 | $9 / 3 / 2008$ | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | $\mathbf{3 0 . 3 2}$ | $\mathbf{5 . 5 3}$ | $\mathbf{2 4 . 7 9}$ |


| MW-4 | 5/31/2007 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 1.51 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

Page 1

## WELL CONCENTRATIONS <br> Shell Service Station 950 Del Presidio Boulevard <br> San Rafael, CA

| Well ID | Date | TPPH <br> (ug/L) | $\begin{aligned} & \text { TEPH } \\ & \text { (ug/L) } \end{aligned}$ | $\begin{gathered} \text { B } \\ (\mathrm{ug} / \mathrm{L}) \end{gathered}$ | $\begin{gathered} \mathbf{T} \\ (\mathrm{ug} / \mathrm{L}) \end{gathered}$ | $\begin{gathered} E \\ (u g / L) \end{gathered}$ | $\begin{gathered} X \\ (u g / L) \end{gathered}$ | $\begin{gathered} \hline \text { MTBE } \\ 8260 \\ \text { (ug/L) } \\ \hline \end{gathered}$ | $\begin{aligned} & \text { DIPE } \\ & \text { (ug/L) } \end{aligned}$ | $\begin{aligned} & \text { ETBE } \\ & \text { (ug/L) } \end{aligned}$ | TAME (ug/L) | TBA (ug/L) | $\begin{aligned} & \text { TOC } \\ & \text { (MSL) } \end{aligned}$ | Depth to Water (ft.) | GW <br> Elevation <br> (MSL) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |


| MW-4 | $6 / 11 / 2007$ | $<50 \mathrm{a}$ | $<50$ | $<0.50$ | $<1.0$ | $<1.0$ | $<1.0$ | $<1.0$ | $<2.0$ | $<2.0$ | $<2.0$ | $<10$ | 31.51 | 4.03 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| MW-4 | $9 / 11 / 2007$ | $<50 \mathrm{a}$ | $<50 \mathrm{~b}$ | 0.15 d | 0.52 d | $<1.0$ | 1.33 d | $<1.0$ | $<2.0$ | $<2.0$ | $<2.0$ | $<10$ | 31.51 | 4.97 |
| MW-4 | $12 / 11 / 2007$ | $<50 \mathrm{a}$ | $<50 \mathrm{~b}$ | 1.6 | 0.54 d | 1.5 | 1.80 d | $<1.0$ | $<2.0$ | $<2.0$ | $<2.0$ | $<10$ | 31.51 | 3.82 |
| MW-4 | $3 / 11 / 2008 \mathrm{e}$ | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 31.51 | 2.69 |
| MW-4 | $3 / 13 / 2008$ | $<50$ | $<50 \mathrm{~b}$ | $<0.50$ | $<1.0$ | $<1.0$ | $<1.0$ | $<1.0$ | $<2.0$ | $<2.0$ | $<2.0$ | $<10$ | 31.51 | 2.22 |
| MW-4 | $6 / 10 / 2008$ | $<50$ | $<50 \mathrm{~b}$ | $<0.50$ | $<1.0$ | $<1.0$ | $<1.0$ | NA | NA | NA | NA | NA | 31.51 | 3.65 |
| MW-4 | 9/3/2008 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 31.51 | 4.60 |


| TB- 1 | $10 / 02 / 2006$ | $f$ | 32,000 | NA | 1,600 | 3,800 | 960 | 5,100 | $<5.0$ | $<20$ | $<20$ | $<20$ | $<50$ | NA | NA |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TB-1 | $5 / 31 / 2007$ | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 2.16 | NA |
| TB-1 | $7 / 23 / 2007$ | 8,800 | $<3,000$ | 23 | $<2.0$ | 220 | 620 | $<2.0$ | $<2.0$ | $<2.0$ | $<2.0$ | 24 | NA | 10.20 | NA |
| TB-1 | $6 / 10 / 2008$ | $<50$ | $<50 \mathrm{~b}$ | $<0.50$ | $<1.0$ | $<1.0$ | $<1.0$ | NA | NA | NA | NA | NA | 31.51 | 2.98 | 28.53 |
| TB-1 | $8 / 14 / 2008$ | $<50$ | 150 c | $<0.50$ | $<1.0$ | $<1.0$ | $<1.0$ | NA | NA | NA | NA | NA | 31.51 | 4.29 | 27.22 |
| TB-1 | $9 / 3 / 2008$ | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 31.51 | 4.83 | 26.68 |

## WELL CONCENTRATIONS

## Shell Service Station

 950 Del Presidio BoulevardSan Rafael, CA

| Well ID | Date | $(\mathrm{ug} / \mathrm{L})$ | TEPH (ug/L) | $\begin{gathered} \mathbf{B} \\ (\mathrm{ug} / \mathrm{L}) \\ \hline \end{gathered}$ | $\begin{gathered} \mathrm{T} \\ (\mathrm{ug} / \mathrm{L}) \\ \hline \end{gathered}$ | $\begin{gathered} E \\ (\mathrm{ug} / \mathrm{L}) \end{gathered}$ | $\begin{gathered} \mathbf{X} \\ (\mathrm{ug} / \mathrm{L}) \\ \hline \end{gathered}$ | $\begin{gathered} \hline \hline \mathbf{8 T B E} \\ \mathbf{8 2 6 0} \\ (\mathrm{ug} / \mathrm{L}) \\ \hline \end{gathered}$ | DIPE <br> (ug/L) | $\begin{aligned} & \text { ETBE } \\ & (\mathrm{ug} / \mathrm{L}) \end{aligned}$ | TAME (ug/L) | TBA $(\mathrm{ug} / \mathrm{L})$ | TOC (MSL) | Depth to Water (ft.) |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

## Abbreviations:

TPPH = Total petroleum hydrocarbons as gasoline by modified EPA Method 8260B
TEPH = Total petroleum hydrocarbons as diesel by EPA Method 8015B (M).
BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B.
MTBE = Methyl tertiary butyl ether
DIPE = Di-isopropyl ether, analyzed by EPA Method 8260B
ETBE = Ethyl tertiary butyl ether, analyzed by EPA Method 8260B
TAME = Tertiary amyl methyl ether, analyzed by EPA Method 8260B
TBA = Tertiary butyl alcohol or tertiary butanol, analyzed by EPA Method 8260B
TOC = Top of Casing Elevation
GW = Groundwater
$u g / L=$ Parts per billion
MSL = Mean sea level
ft. = Feet
$<n=$ Below detection limit
NA = Not applicable

## Notes:

a = Analyzed by EPA Method 8015B (M).
$b=$ The sample extract was subjected to Silica Gel treatment prior to analysis.
$c=$ The sample chromatographic pattern for TPH does not match the chromatographic pattern of the specified standard. Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specified standard.
$d=$ Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
$e=$ Coordinated gauging event on this day.
$f=$ Grab groundwater sample collected by Cambria Environmental Technology, Inc.
Site surveyed on June 4, 2007 by Virgil Chavez Land Surveying of Vallejo, CA.

September 22, 2008

Eric Morse
Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Subject: Calscience Work Order No.: 08-09-0539
Client Reference:

950 Del Presidio Blvd., San Rafael, CA

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 9/6/2008 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,


Calscience Environmental
Laboratories, Inc.
Jessie Kim
Project Manager

CA-ELAP ID: 1230 NELAP ID: 03220CA • CSDLAC ID: $10109 \quad$ SCAQMD ID: 93LA0830 7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX: (714) 894-7501

Analytical Report



| -The sample extract was subjected to Silica Gel treatment prior to analysis. |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Parameter | Result | RL | DF | Qual | Units |
| Diesel Range Organics | 79 | 50 | 1 |  | ug/L |
| Surrogates: | REC (\%) | Control Limits |  | Qual |  |
| Decachlorobiphenyl | 88 | 68-140 |  |  |  |


| Method Blank |  | 099-12-211-663 | N/A | Aqueous | $\text { GC } 27$ | $09 / 09 / 08$ | $\begin{gathered} 09 / 10 / 08 \\ 10: 15 \end{gathered}$ | 080909B09 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Parameter | Result | RL | DF | Qual | Units |  |  |  |
| Diesel Range Organics | ND | 50 | 1 |  | ug/L |  |  |  |
| Surrogates: | REC (\%) | Control Limits |  | Qual |  |  |  |  |
| Decachlorobiphenyl | 112 | 68-140 |  |  |  |  |  |  |

Analytical Report




| Blaine Tech Services, Inc. | Date Received: | W9/06/08 |
| :--- | :--- | ---: |
| 1680 Rogers Avenue | Work Order No: | $08-09-0539$ |
| San Jose, CA 95112-1105 | Preparation: | Meth 5030 B |
|  | Method: | LUFT GC/MS/EPA |
|  |  | 8260 B |

Proiect 950 Del Presidio Blvd., San Rafael, CA

| Quality Control Sample ID | Matrix | İnstrument | Date Prepared | Date Analyzed | MS/MSD Batch Number |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 08-09-0703-4 | Aqueous | GCIMS RR | 09/13/08 | 09/13/08 | 080913501 |


| Parameter | MS \%REC | MSD \%REC | \%REC CL | $\underline{R P D}$ | RPD CL | Qualifiers |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Benzene | 95 | 94 | 70-130 | 1 | 0-30 |  |
| Ethylbenzene | 98 | 97 | 70-130 | 2 | 0-30 |  |
| Toluene. | 98 | 97 | 70-130 | 1 | 0-30 |  |
| p/m-Xylene | 99 | 95 | 70-130 | 3 | 0-30 |  |
| o-Xylene | 100 | 97 | 70-130 | 3 | 0-30 |  |
| Methyl-t-Butyl Ether (MTBE) | 104 | 106 | 70-130 | 2 | 0-30 |  |
| Tert-Butyl Alcohol (TBA) | 100 | 107 | 70-130 | 7 | 0-30 |  |
| Diisopropyl Ether (DIPE) | 102 | 101 | 70-130 | 1 | 0-30 |  |
| Ethyl-t-Butyl Ether (ETBE) | 100 | 101 | 70-130 | 2 | 0-30 |  |
| Tert-Amyl-Methyl Ether (TAME) | 100 | 100 | 70-130 | 0 | 0-30 |  |
| Ethanol | 93 | 102 | 70-130 | 10 | 0-30 |  |



| Blaine Tech Services, Inc. | Date Received: | 09/06/08 |
| :--- | :--- | ---: |
| 1680 Rogers Avenue | Work Order No: | $08-09-0539$ |
| San Jose, CA 95112-1105 | Preparation: | EPA 5030B |
|  | Method: | LUFT GC/MS / EPA |
|  |  | $8260 B$ |

Project 950 Del Presidio Blvd., San Rafael, CA

| Quality Control Sample ID | Matrix | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 08-09-0863-4 | Aqueous | GC/MS RR | 09/14/08 | 09/14/08 | 080914501 |


| Parameter | MS \%REC | MSD \%REC | \%REC CL | RPD | RPD CL | Qualifiers |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Benzene | 94 | 95 | 70-130 | 1 | 0-30 |  |
| Ethylbenzene | 96 | 96 | 70-130 | 0 | 0-30 |  |
| Toluene | 97 | 98 | 70-130 | 1 | 0-30 |  |
| p/m-Xylene | 95 | 95 | 70-130 | 0 | 0-30 | . |
| o-Xylene | 97 | 96 | 70-130 | 2 | 0-30 |  |
| Methyl-t-Butyl Ether (MTBE) | 102 | 101 | 70-130 | 1 | 0-30 |  |
| Tert-Butyl Alcohol (TBA) | 100 | 98 | 70-130 | 2 | 0.30 |  |
| Diisopropyl Ether (DIPE) | 106 | 107 | 70-130 | 1 | 0-30 |  |
| Ethyl-t-Butyl Ether (ETBE) | 101 | 101 | 70-130 | 1 | 0-30 |  |
| Tert-Amyl-Methyl Ether (TAME) | 100 | 100 | 70-130 | 0 | 0-30 |  |
| Ethanol | 111 | 98 | 70-130 | 12 | 0-30 |  |

## Quality Control - LCS/LCS Duplicate



| Blaine Tech Services, Inc. | Date Received: | N/A |
| :--- | :--- | ---: |
| 1680 Rogers Avenue | Work Order No: | 08-09-0539 |
| San Jose, CA 95112-1105 | Preparation: | EPA 3510C |
|  | Method: | EPA 8015B |

Project: 950 Del Presidio Blvd., San Rafael, CA


Quality Control - LCS/LCS Duplicate


Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

| Date Received: | N/A |
| :--- | ---: |
| Work Order No: | 08-09-0539 |
| Preparation: | EPA 5030B |
| Method: | LUFT GC/MS / EPA 8260B |

Project: 950 Del Preșidio Blvd., San Rafael, CA


Quality Control - LCS/LCS Duplicate


| Blaine Tech Services, Inc. | Date Received: | N/A |
| :--- | :--- | ---: |
| 1680 Rogers Avenue | Work Order No: | 08-09-0539 |
| San Jose, CA 95112-1105 | Preparation: | EPA 5030B |
|  | Method: | LUFT GC/MS / EPA 8260B |

Project: 950 Del Presidio Blvd., San Rafael, CA

| Quality Control Sample ID | Matrix | Instrument | Date Prepared | Date Analyzed |  | LCS/LCSD Batch Number |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 099-12-715-899 | Aqueous | GC/MS RR | 09/14/08 | $09 / 1$ | $\sqrt{4}$ | $080914$ |  |
| Parameter | LCS \%REC | LCSD \%REC | \%REC CL | MECL | RPD | RPD CL | Qualifiers |
| TPPH | 99 | 101 | 65-135 | 53-147 | 2 | 0-30 |  |
| Benzene | 82 | 97 | 70-130 | 60-140 | 16 | 0-30 |  |
| Ethylbenzene | 86 | 99 | 70-130 | 60-140 | 15 | 0-30 |  |
| Toluene | 86 | 100 | 70-130 | 60-140 | 15 | 0-30 |  |
| $\mathrm{p} / \mathrm{m}$-Xylene | 85 | 99 | 70-130 | 60-140 | 16 | 0-30 |  |
| o-Xylene | 86 | 101 | 70-130 | 60-140 | 16 | 0-30 |  |
| Methyl-t-Butyl Ether (MTBE) | 87 | 102 | 70-130 | 60-140 | 15 | 0-30 |  |
| Tert-Butyl Alcohol (TBA) | 79 | 96 | 70-130 | 60-140 | 20 | 0-30 |  |
| Diisopropyl Ether (DIPE) | 91 | 106 | 70-130 | 60-140 | 15 | 0-30 |  |
| Ethyl-t-Butyl Ether (ETBE) | 87 | 102 | 70-130 | 60-140 | 16 | 0-30 |  |
| Tert-Amyl-Methyl Ether (TAME) | 85 | 100 | 70-130 | 60-140 | 16 | 0-30 |  |
| Ethanol | 83 | 93 | 70-130 | 60-140 | 12 | 0-30 |  |

Total number of LCS compounds: 12
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass


Work Order Number: 08-09-0539

| Qualifier | Definition |
| :--- | :--- |
| 1 | See applicable analysis comment. <br> Surrogate compound recovery was out of control due to a required sample dilution, <br> therefore, the sample data was reported without further clarification. |
| 2 | Surrogate compound recovery was out of control due to matrix interference. The <br> associated method blank surrogate spike compound was in control and, therefore, the <br> sample data was reported without further clarification. <br> Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of <br> control due to matrix interference. The associated LCS and/or LCSD was in control and, |
| therefore, the sample data was reported without further clarification. |  |

 ; $\# 510310281$
$\qquad$ of $\qquad$

## SAMPLE RECEIPT FORM

## CLIENT: BLAINE TECH

DATE: $\quad 09-06-08$
TEMPERATURE - SAMPLES RECEIVED BY:

CALSCIENCE COURIER:
$\qquad$ Chilled, cooler with temperature blank provided. Chilled, cooler without temperature blank. Chilled and placed in cooler with wet ice. Amblent and placed in cooler with wet ice. Ambient temperature (For Air \& Filter only).
$\qquad$
$\qquad$

LABORATORY (Other than Calscience Courier):
___- ${ }^{\circ} \mathrm{C}$ Temperature blank.
$0 \perp \cdot \mathcal{L}^{\circ} \mathrm{C} \mathbb{R}$ thermometer.
Ambient temperature (For Air \& Filter only).
$\qquad$ ${ }^{\circ} \mathrm{C}$ Temperature blank.
Initial: TD

CUSTODY SEAL INTACT:
Sample(s): $\qquad$ Cooler: $\qquad$ No (Not Intact): $\qquad$
Not Present: $\qquad$ Initial: ID

## SAMPLE CONDITION:

|  | Yes | No | N/A |
| :---: | :---: | :---: | :---: |
| Chain-Of-Custody document(s) received with samples. | $\checkmark$ |  |  |
| Sampler's name indicated on COC.. | - |  |  |
| Sample container label(s) consistent with custody papers. | - |  |  |
| Sample container(s) intact and good condition.. | - |  |  |
| Correct containers and volume for analyses requested. | - |  |  |
| Proper preservation noted on sample label(s).. | - |  |  |
| VOA vial(s) free of headspace. | $\bigcirc$ |  |  |
| Tedlar bag(s) free of condensation. |  |  |  |
|  |  |  | IID |

## COMMENTS:

## SHELL WELLHEAD INSPECTION TOR (FOR SAMPLE TECHNICIAN)



Job Number O8O903-J4 Technician Joe lavesen

*Well box must meet all three criteria to be compliant: 1) WELL IS SECURABLE BY DESIGN (12"or less) 2) WELL IS MARKED WITH THE WORDS "MONITORING WELL" (12 "or less) 3) WELL TAG IS PRESENT, SECURE, AND CORRECT
Notes:

Project \# Oro903- J. Date $\qquad$ $9 / 3 / 05$ Client $\qquad$ Shell

Site $\qquad$ 950 Del Preside Blvd $\qquad$


SHELL WELL MONITORING DATA SHEET




# Phase I Environmental Site Assessment 

Mervyn's Department Store 5010 Northgate Mall The Mall at Northgate San Rafael, California

January 5, 2009
10008-008221.00
Prepared for
MACERICH MANAGEMENT COMPANY
401 Wilshire Boulevard
Suite 700
Santa Monica, CA 90401

For the benefit of business and people

Bureau Veritas North America, Inc.
San Francisco Regional Office
6920 Koll Center Parkway, Suite 216
Pleasanton, California 94566
925.426.2600
www.us.bureauveritas.com

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## EXECUTIVE SUMMARY

Mr. Aladdin Ghafari, Assistant Vice President, Environmental Affairs, MACERICH MANAGEMENT COMPANY (MACERICH), retained Bureau Veritas North America, Inc. to conduct a Phase I Environmental Site Assessment of the Mervyn's department store located at 5010 Northgate Mall, The Mall at Northgate, San Rafael, Marin County, California (the "subject property"). The objective of the assessment was to provide an independent, professional opinion regarding recognized environmental conditions (REC), as defined by ASTM, associated with the subject property. This assessment was requested in association with a real estate transaction.

This assessment was performed in accordance with ASTM E1527-05, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process. Any exceptions to these guidelines, and/or limitations of the assessment, are described in Section 1.3.

The subject property is a Mervyn's retail department store, located on about 1 acre in a retail setting within the Mall at Northgate shopping center. Mervyn's is one, two-story building that is attached to the larger Mall at Northgate Shopping Center. Other anchor tenants at the shopping center (not part of the subject property) include Macy's, Sears, and Century Theatres. The building at the subject property was constructed during 1985. It is Bureau Veritas' understanding that Mervyn's will cease operations and vacate the subject property in the December 2008 timeframe.

Bureau Veritas identified obvious subject property uses from the present back to 1914. The subject property was undeveloped land until developed by the Northgate Shopping Center into a parking lot about 1965. The current subject property building was reportedly built in 1985 as a Mervyn's Department store. The surrounding area was also being residentially and commercially developed during that time.

This assessment has revealed no evidence of recognized environmental conditions in connection with the property.

### 1.0 INTRODUCTION


#### Abstract

Mr. Aladdin Ghafari, Assistant Vice President, Environmental Affairs, MACERICH MANAGEMENT COMPANY (MACERICH), retained Bureau Veritas North America, Inc. to conduct a Phase I Environmental Site Assessment of the Mervyn's department store located at 5010 Northgate Mall, The Mall at Northgate, Marin County, San Rafael, California (the "subject property"). The objective of the assessment was to provide an independent, professional opinion regarding recognized environmental conditions (REC), as defined by ASTM, associated with the subject property. This assessment was requested in association with a real estate transaction.


### 1.1 PURPOSE

Good commercial and customary practice for conducting environmental site assessments has the goal of providing an independent, professional opinion regarding recognized environmental conditions, as defined by ASTM, associated with the subject property. The term recognized environmental conditions (RECs) is defined as the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property. The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include de minimis conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Conditions determined to be de minimis are not RECs.

### 1.2 METHODOLOGY

This assessment was performed in accordance with ASTM E1527-05, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process. Any exceptions to these guidelines, and/or limitations of the assessment, are described in Section 1.3.

The assessment included the following components:

- A site walkthrough inspection of the property for visual evidence of potential environmental concerns including existing or potential soil and groundwater contamination, as evidenced by soil or pavement staining or discoloration, stressed vegetation; indications of waste dumping or burial, pits, ponds, or lagoons; containers of hazardous substances or petroleum products; electrical and hydraulic equipment that may contain polychlorinated biphenyls (PCBs), such as electrical transformers and hydraulic hoists; and underground and aboveground storage tanks.
- An investigation of historical use of the subject property through reasonably ascertainable ASTM Standard Historical Sources (e.g., aerial photographs, fire insurance maps, city directories,) for evidence of prior land use that could have led to recognized environmental conditions.
- A review of information available on general geology and topography of the subject property, local groundwater conditions, sources of water, power, and sewer, and proximity to ecologically sensitive receptors, such as streams, that might be impacted by recognized environmental conditions and environmental issues.
- A review of environmental records available from MACERICH, property owner or site contact including regulatory agency reports, permits, registrations, and consultants' reports for evidence of recognized environmental conditions and activity and use limitations (AULs).
- A site property line visual assessment of adjacent properties for evidence of potential offsite environmental conditions that may affect the subject property.
- A review of a commercial database summary of federal, state and tribal regulatory agency records pertinent to the subject property and offsite facilities located within ASTM-specified search distances from the subject property.
- Interviews with the subject property owner or their designated Key Site Manager, Occupants and State/Local Government Officials, regarding current and previous uses of the property, particularly activities involving hazardous substances and petroleum products. Past owners, operators and occupants were also interviewed to the extent they were identified and their information was not likely to be duplicative.
- Evaluation of information gathered and development of this report

This assessment did not include sampling or analysis of soil, groundwater or other materials.
Mr. Richard Fehler from Bureau Veritas' San Francisco Regional Office, an Environmental Professional as defined in $\S 312.10$ of 40 CFR 312; conducted the site walkthrough portion of the assessment on December 18, 2008, accompanied by Mr. Anthony Edwards, Operations Manager for Northgate. Mr. Edwards has been associated with the subject property for about a year and a half. Resumes for environmental professionals involved in this assessment are included in Appendix A. Photographs taken at the time of the assessment are included behind the Photographs Tab.

### 1.3 EXCEPTIONS AND LIMITING CONDITIONS OF ASSESSMENT

Information for the assessment was obtained from sources listed in Appendix B. This information, to the extent it was relied on to form our opinion, is assumed to be correct and complete. Bureau Veritas is not responsible for the quality or content of information from these sources.

At the time of this assessment, the following documents regarding the subject property were requested, but were not made available for review:

- Documents from the San Rafael building Department

Bureau Veritas has not received a response to the above noted request as of the date of this report. If later findings materially affect the conclusions and recommendations in this report, Bureau Veritas will contact MACERICH.

## Lack of Access

Access was not provided to the following areas of the subject property

- Elevator pits. The elevator equipment room was available for inspection, but the elevator pits were inaccessible.

No opinion regarding environmental conditions in areas that were not inspected can be formed. Lack of access to the area(s) listed above did not impede an evaluation of the subject property with respect to recognized environmental conditions.

## Data Gaps

Historical subject property ownership and/or use information was obtained for the time period, 1914 to present. Bureau Veritas has established the history of previous uses at subject property use since 1940 or first development. No significant data gaps were encountered during this assessment.

### 1.4 RELIANCE

Bureau Veritas understands that MACERICH and its affiliates, investors, lenders, assignees, designees, successors, and assigns intend to rely upon this report as an evaluation of the environmental conditions at the Property for the purpose of deciding whether and under what conditions to proceed with the real estate transaction involving the Property. The work was performed with sufficient detail and scope to meet the standard diligence practices for an environmental assessment for an institutional investor of real estate in the current marketplace. Bureau Veritas understands that the intent is to complete an investigation which will help satisfy one of the requirements to qualify MACERICH and its affiliates, investors, lenders, assignees, designees, successors, and assigns for the innocent landowner, contiguous property owner, or bona fide prospective purchaser limitation on CERCLA liability and that MACERICH and its affiliates, investors, lenders, assignees, designees, successors, and assigns may rely upon the work for the above purpose.

Bureau Veritas will not distribute or publish this report without consent except as required by law or court order. The information and opinions expressed in this report are given in response to a limited assignment and should be considered and implemented only in light of that assignment. The services provided by Bureau Veritas in completing this project were consistent with normal standards of the profession. No other warranty, expressed or implied, is made.

### 2.0 USER PROVIDED INFORMATION

ASTM E 1527 defines "user" as the party seeking to use Practice E 1527 to complete an environmental site assessment of the subject property, and in this case, the user is MACERICH. ASTM E 1527 specifies that certain tasks associated with identifying potential RECs at the subject property should be performed by the user and provided to the environmental professional. This section documents the information obtained from the user.

## Recorded Land Title Records

Obtaining recorded land title records and lien records that are filed under federal, state, tribal, or local law for information concerning environmental liens or Activity and Use Limitations (AULs) associated with the subject property was not part of this assessment. Lack of this information did not affect Bureau Veritas' ability to identify RECs. It should be noted that based on the "User Questionnaire" provided by MACERICH, there are no known Environmental Liens or AULs associated with the subject property.

## Specialized Knowledge

MACERICH indicated that it has no specialized knowledge or experience of environmental issues of concern associated with the subject property.

## Commonly Known or Reasonably Ascertainable Information

MACERICH representative, Mr. Aladdin Ghafari, was asked if he was aware of any of the following:

Any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property. Yes XX No

Any pending, threatened or past administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the property.
Yes XX No

Any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products.


MACERICH indicated that it is unaware of any commonly known or reasonably ascertainable information within the local community about the subject property that is material to identifying environmental issues of concern associated with the subject property.

## Valuation Reduction for Environmental Issues

The current real estate transaction concerning the subject property is a potential sale, rather than a purchase. However, MACERICH does not anticipate discounting the offering price of the subject property for environmental reasons.

## Owner, Property Manager, and Occupant Information

MACERICH indicated that it has no specific information from subject property occupants that is material to identifying environmental issues of concern associated with the subject property.

## Reason for Performing Phase I

MACERICH indicated that this assessment was requested in association with a property transaction.

| 3.0 | ENVIRONMENTAL ASSESSMENT FINDINGS |
| :--- | :--- |
| Property Name: | Mervyn's Department Store |
| Site Address: | 5010 Northgate Mall, The Mall at Northgate, Marin County, San Rafael, <br> California |
| Owner: | Macerich |

### 3.1 CURRENT SITE INFORMATION

Property Type:
Date of Site Inspecti
Property Size:
Number and Size of
Buildings Onsite:

Construction Date: 1985
Current Site Usage: The subject property is currently developed as a Mervyn's retail department store.

Tenants: Mervyn's. It is Bureau Veritas' understanding that Mervyn's will vacate the subject property around December 2008.

All interior and exterior areas were inspected on foot. Bureau Veritas did not have access to the roof.

## Physical Setting

| Estimated Depth to Groundwater: | Depth to groundwater ranges from $\sim 5$ feet <br> below grade to $\sim 15$ feet below grade. |
| :--- | :--- |
| Gradient Direction: | At nearby gas stations (Section 3.9), gradients <br> are generally west to north-north west, but may <br> also have smaller southwest components. |

Geology: At nearby gas stations (Section 3.9), soils consist of silt, gravelly silt, clayey sand, clayey sand with gravel, and sandy clay to depths exceeding 25 feet below grade.

### 3.2 PRIOR USE INFORMATION

## Summary of Prior Uses/Dates

The historical research presented in this assessment has established the use of the subject property since 1914. The subject property was undeveloped land until developed by the Northgate Shopping Center into a parking lot about 1965. The current subject property building was reportedly built in 1985 as a Mervyn's Department store. The surrounding area was also being residentially and commercially developed.

## City Directory Review

City Directories were requested from EDR. Historical city directories were provided for the period between 1972 and 2008 (Appendix F). A summary of the listings for the subject and adjoining properties is shown below.

| Address | Year/Date Range | Listing(s) |
| :--- | :--- | :--- |
| Subject Property: | $1972,1976,1981$, <br> 1985 <br> $1995,2000,2008$ | No listings found |
| 5010 Northgate Mall |  |  |
| Adjoining/Nearby Properties: |  |  |
| Various addresses | 1972, 1976, 1981, <br> 1985 <br> $1995,2000,2008$ | Street not listed <br> Northgate Mall and other retail listings that <br> appear to be associated with the mall. |

## Aerial Photograph Review

Historical aerial photographs were requested from EDR. Historical aerial photographs were provided for the period between 1946 and 2005 (Appendix C). Photographs reviewed are summarized as follows:

| Date | Scale | Comments |
| :--- | :--- | :--- |
| 1946 | $655^{\prime}$ | The subject property and surrounding areas are primarily vacant, <br> undeveloped land. The alignment of I-101 is present, running <br> generally from the north to the southeast. A small road following the <br> alignment of the present day Los Ranchitos Road is also present. |
| 1952 | $555 \prime$ | No significant changes were depicted with respect to the 1946 <br> photograph, except that some residential development is now seen to |


| Date | Scale | Comments |
| :--- | :--- | :--- |
| 1965 | $333^{\prime}$ | the southeast of the subject property. |
| 1982 | $690^{\prime}$ | Buildings (not including Mervyn's) and parking lots of Northgate Mall <br> are now present. The subject property, Mervyn's, is shown as a <br> parking lot. The perimeter roads that encircle the present day <br> shopping center are present, but the southern part of the area is not <br> yet developed and appears graded. The existing shopping center <br> buildings appear to be free-standing and not enclosed as today. <br> Additional commercial and residential development is present and <br> roads and I-101 appear as they do now. It appears that three of the <br> four gas stations located north of the subject property on Del Presidio <br> Blvd. are present. |
| 1993 | 666 | The subject property is still a parking lot within the shopping center. <br> The shopping center has been further developed and considerable <br> commercial and residential development is shown in the surrounding <br> areas. |
| 1998 | 666, | The Mervyn's building is now present at the west side of the shopping <br> center. The parking structure to the south of Mervyn's is also now |
| present. The surrounding areas are substantially the same as shown |  |  |
| in the 1982 photo. |  |  |

## Historical Topographic Map Review

Historical topographic maps were requested from EDR. Historical topographic maps were provided for the period between 1914 and 1980 (Appendix D). The maps depicted the following:

| Date | Comments |
| :--- | :--- |
| 1914 | The subject property is depicted as vacant, undeveloped land. |
| 1954 | No significant changes were depicted with respect to the 1914 map, except, I-101 is <br> shown running north to south and some residential development shown to the southwest. |
| 1980 | The Northgate Mall is shown, but the Mervyn's building does not appear to be present. <br> The surrounding areas show considerable commercial and residential development. |

## Fire Insurance Map Review

Sanborn Fire Insurance Maps were requested from EDR. Fire insurance maps were not available according to EDR. The "No Coverage" notice is provided in Appendix E.

### 3.3 CITY/COUNTY FILE REVIEW/INTERVIEWS WITH LOCAL GOVERNMENT OFFICIALS

## Agency: Marin County Assessors Office

Permits/Comments: The Marin County Assessors Office was contacted on November 19, 2008. The Assessors office confirmed that the Parcel number is 175-060-60.

## Agency: San Rafael Fire Department

Permits/Comments: The San Rafael Fire Department (SRFD) was contacted on November 19, 2008 to obtain information regarding violations, releases, or environmental concerns regarding the subject property. Fire Department representatives indicated that the SRFD does not maintain records related to hazardous materials, spills, etc.

## Agency: Department of Toxic Substances Control

Permits/Comments: The Department of Toxic Substances Control (DTSC) was contacted on November 19, 2008 to obtain information regarding violations, releases, or environmental concerns regarding the subject property. According to DTSC staff, there are no records on file for the subject property

## Agency: Regional Water Quality Control Board

Permits/Comments: The Regional Water Quality Control Board (RWQCB) was contacted on November 19, 2008 to obtain information regarding violations, releases, or environmental concerns regarding the subject property. According to Melinda Wong, the records they have are available for review on the GeoTracker web site (see section 3.9).

## Agency: San Rafael Building Department

Permits/Comments: The San Rafael Building department was visited on December 19, 2008 to obtain information regarding violations, releases, or environmental concerns regarding the subject property. The Building Department was not able to provide documentation related to original construction dates. Building department staff did not have any knowledge regarding the past history of use or any potential recognized environmental conditions associated with the subject property.

### 3.4 PREVIOUS REPORTS

No previous reports were available for review during this assessment.

### 3.5 GENERAL OBSERVATIONS

At the time of the walkthrough, the areas associated with the subject property was developed as a retail department store, consisting of one, two-story building of concrete block construction. The subject building is located within the larger The Mall at Northgate Shopping Center, and is "attached" on the east side to the interior of the mall. A loading dock is located at the south side of the subject building, and contains a hydraulic trash compactor. On the west side of the building is a diesel-powered emergency generator, within a chain link enclosure. A utility-owned pad-mounted transformer is located beside the generator enclosure. Landscaping is present in islands throughout the parking areas and sidewalks.

Most of the interior areas of the subject building are developed as retail space, containing clothing, jewelry, bedding, and other housewares. Retail areas are finished with ceramic and/or vinyl floor tile, carpet, painted drywall, and suspended acoustical ceiling tiles. Warehouse areas are primarily located along the west side of the building behind the loading dock. Finishings in warehouse areas consist mostly of exposed concrete and ceiling, and drywall. Office areas were generally finished with vinyl floor tile and suspended acoustical ceiling tiles. There is one set of escalators between the first and second floor shopping areas, and there are two hydraulic elevators (one freight elevator in the warehouse area and one passenger elevator in the main shopping area). The elevator equipment room was inspected and no spills or leaks were noted. The elevator pits themselves were inaccessible.

Interior and exterior areas of the subject property appeared to be in good condition.

### 3.6 INTERVIEWS

Bureau Veritas Interviewed the subject property owner and site manager as noted in the sections below.

## Interview with Owner

See section 2.0 for additional information provided by the site owner.

## Interview with Site Manager (or other site access contact/occupant)

Mr. Anthony Edwards was contacted in person on December 18, 2008. Mr. Edwards was forthcoming with information for which he had knowledge. Mr. Edwards has been associated with the subject property for approximately a year and a half. Mr. Edwards provided general information regarding historic and current operations at the subject property. Mr. Edwards` is unaware of any environmental issues of concern associated with the subject property, and stated that he was unaware of any USTs or ASTs historically or currently located on the subject property. Mr. Edwards indicated that the mall was built in 1965, and at that time the buildings were "free-standing" and not enclosed in a mall. He indicated that the Mervyn's building was built in 1985 (as a free-standing building), at which time the entire mall was "enclosed."

Mr. Edwards was asked if he was aware of any of the following:

Any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property. Yes XX No

Any pending, threatened or past administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the property.

Yes XX No
Any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products.


## Interviews with Others

No other interviews were conducted.

### 3.7 CURRENT SITE CONDITIONS

| Stained Soil | Yes | No | XX |
| :---: | :---: | :---: | :---: |
| Distressed Vegetation | Yes | No | XX |
| Chemical/Hazardous Materials Storage | Yes | No | XX |

Comments (types, amount, location): None
Sumps/Pits/Floor Drains Yes No XX

Comments (types, amount, location): A storm drain is located at the base of the loading dock.

## Leachfields/Septic Tank

Yes
No $X X$

Comments (location, condition): The subject property has been connected to the municipal sewer since initial construction

Source of Fuel for Heating: Natural gas

## Wells

## Yes

$\qquad$ No XX

## Waste Handling and Disposal:

Comments (types, amount, location):
Non-hazardous solid waste is collected into dumpsters and a trash compactor, located in the loading dock of the subject building, and is picked up on a regular basis.

## Potential PCB-Containing Equipment

Yes $\qquad$ No XX

## Type

Ownership

## Condition / Comments

A pad-mounted transformer is located at the west side of the building in a landscaped area.

Hydraulic Trash Mervyn's Compactor

Utility-owned (PG\&E) Good


The compactor appeared to be in good condition and no leaking in the vicinity of the compactor was observed.
Aboveground Storage Tanks (ASTs) Yes No XX

Comments: The subject property has a diesel-fired backup generator equipped with an approximately 85 -gallon belly tank. The tank is enclosed within the generator, which would contain any leaks from the tank. Diesel staining was observed on the concrete pad, the apparent result of overfills (see photos). The minor spillage is considered to be de minimis.

Underground Storage Tanks (USTs) Yes No XX

### 3.8 ADJACENT SITE LAND USES

|  | A large parking lot, <br> followed by Las Galinas |  |
| :--- | :--- | :--- |
| Avenue, across which are |  |  |
| four gas on Del Presidio. |  |  |$\quad$ Comments | The four gas stations all have active |
| :--- |
| North | | groundwater monitoring programs (see |
| :--- |
| Section 3.9) |

four gas on Del Presidio.
Comments Section 3.9)


### 3.9 REGULATORY SEARCH (ADJACENT OR UPGRADIENT SITES WITHIN ¼ MILE OF SUBJECT PROPERTY)

The subject property was identified in the EMI (Emissions Inventory Database) database. This listing reflects the emergency generator and does not represent a release.

The database review identified twelve different locations within $1 / 8$-mile from the subject property. A complete listing of these sites is included in Appendix I. Most of the sites present no environmental concern to the subject property because they only hold an operating permit (which does not imply a release), require no further action, reflect RCRA "small quantity generator" status, or based upon Bureau Veritas' review, are too distant and/or topographically down-gradient or cross-gradient relative to the subject property to reasonably affect it.

The computer database review identified the following selected facilities, generally within $1 / 8$ mile from the subject property, for additional discussion.

| Facility | Database | Orientation <br> from Subject <br> Site (miles) | Environmental <br> Concern/Reason |
| :--- | :--- | :--- | :--- |
| Goodyear Tire and Rubber Ca. <br> 496 Las Gallinas Avenue | HIST UST | $<1 / 8$ mile, <br> east across <br> shopping <br> center and <br> across street; <br> cross-down <br> gradient | No; distance and gradient |


| Facility | Database | Orientation from Subject Site (miles) | Environmental Concern/Reason |
| :---: | :---: | :---: | :---: |
| Sears/Jiffy Lube/Sears Auto Ctr 9000 Northgate | RCRA-SQG, FINDS, HAZNET,AST, HIST UST | < $1 / 8$ mile; at far edge of shopping center; up- to cross-gradient | No; no indication of a release and distance |
| Kerns and Walker Cleaners 412 Las Gallinas Avenue | RCRA-SQG, FINDS, HAZNET | < $1 / 8$ mile, east across shopping center and across street; cross-down gradient | No; no indication of a release, distance and gradient |
| Four Gasoline Service Station Locations, all on Del Presidio Boulevard | Multiple (see below) | <1/8 mile, north, across large parking lot, across Las Gallinas Avenue; down- to cross-gradient | See below |

The following sites that may pose an environmental concern to the subject property were evaluated in more detail:

- There are multiple listings with different names for these four sites. Currently, they are: 921 Del Presidio (76 Service Station No. 4774), 930 Del Presidio (Valero), 949 Del Presidio (Chevron Service Station \#90166), and 950 Del Presidio (Shell). There are multiple database listings for these sites including, RCRA-SQG, UST, LUST, CHMIRS, Cortese, CA FID UST, HIST UST, SWEEPS UST, RCRA-LQG, and HAZNET. All four sites have active monitoring programs in place and selected sections of current monitoring reports are included in Appendix H. According to information contained in these reports, soils consist of silt, gravelly silt, clayey sand, clayey sand with gravel, and sandy clay to depths exceeding 25 feet below grade. Depth to groundwater ranges from $\sim 5$ feet below grade to $\sim 15 \sim$ below grade, with a general west to north-north west gradient, which is cross- to down-gradient from the subject property. Based on gradient and distance, these sites pose low concern to the subject property.

Unmappable sites are sites that cannot be plotted with confidence, but can be located by zip code or city name. In general, a site cannot be geocoded due to inaccurate or missing information in the environmental database record provided by its applicable agency. Cross referencing addresses and site names, as well as a visual reconnaissance of surrounding properties, has been completed for the unmappable facility sites in the database report. The subject and adjacent properties were not identified
on the unmappable sites listing in the environmental database report. No unmappable sites were identified with the potential to impact the subject property.

### 4.0 FINDINGS, OPINIONS, AND CONCLUSIONS

We have performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM E 1527-05 of the Mervyn's department store located at 5010 Northgate Mall, The Mall at Northgate, Marin County, San Rafael, California the subject property. Any exceptions to or deletions from this practice are described in Section 1.3.

This assessment has revealed no evidence of recognized environmental conditions in connection with the property.

## Certification of both

 Environmental Professionals signing below:This report was prepared by:

This report reviewed by:

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in $\S 312.10$ of 40 CFR 312. I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set font in 40 CFR Part 312.


Richard D. Fehler, QEP, REA
Director National Accounts Environmental Services San Francisco Regional Office Bureau Veritas North America, Inc.


Trevor Donaghu, REA
Manager, National Accounts
National Programs
San Francisco Regional Office
Bureau Veritas North America, Inc.

January 5, 2009
Bureau Veritas Project No. 10008-008221.00


FIGURES



BUREAU
VERITAS

PHOTOGRAPHS













## AEI Consultants

August 6, 2009

284110/NorthgateMall/09-003136-01-1
284110

Ms. Thomas,
The attached report was prepared for US Bank by AEI Consultants. You have requested a copy of this report and AEI Consultantsis providing you a copy subject to the following conditions:

- The report reflects the condition of the subject property on the date of the assessment and may not reflect its current condition.
- AEI Consultantsappreciates the opportunity to work with you on this project, and trusts that this information is sufficient for your needs.

If you have any questions or comments, or need additional information, please call our office at 925-746-6000. Once again, thank you for your continued confidence in AEI Consultants.

Sincerely,
Brie Solaegui
Project Manager

## AEI Consultants

# Phase I Environmental Site Assessment Report 

Northgate Mall 5800 Northgate Mall San Rafael, California 94903

## Prepared for

US Bank
950 17th St., 12th Floor
Denver, Colorado 80202

## Prepared by

AEI Consultants
2500 Camino Diablo
Walnut Creek, California 94597
Phone: 925.283.6000

Job Number: 284110
08/06/2009
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## Executive Summary

## General Information

## Project Information:

284110/NorthgateMall/09-003136-01-1
Project Number: 284110
RIMS Project \#: 09-003136-01-1
Consultant Information:
AEI Consultants
2500 Camino Diablo
Walnut Creek, CA 94597
Phone:
925.283.6000

Fax: 925.746.6099
E-mail Address: bsolaegui@aeiconsultants.com
Inspection Date: 07/14/2009
Report Date: 08/06/2009

## Site Information:

Northgate Mall
5800 Northgate Mall
San Rafael, CA 94903
County: Marin
Latitude, Longitude: $\quad 38.005200,-122.544000$
Site Access Contact:

## Client Information:

US Bank
Karla Thomas
950 17th St., 12th Floor
Denver, CO 80202

## Site Assessor:

Bro R Solayno
Brie Solaegui
Project Manager


Senior Reviewer:
Orion Alcalay Vice President, Due Diligence Services

## EP Certification:

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in 312.10 of this part.


Orion Alcalay - Vice President, Due Diligence Services

## Standard Certification:

I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.


Brie Solaegui - Project Manager

### 1.0 Executive Summary

### 1.1 Subject Property Description

The subject property is bound by Las Gallinas Avenue to the north and northeast, Los Ranchitos Road to the east, and Northgate Drive to the west and south and is bisected by Northgate Mall. The site is located in a mixed commercial and residential area of San Rafael, California. The property totals approximately 66.32 acres and is improved with two single-story buildings, one mixed one- and two-story building and one building that is currently under construction, totaling approximately 713,000 square feet. The buildings are occupied by various retail businesses within the Northgate Mall ( 5800 Northgate Mall), as well as Macy's (1000 Northgate Mall), Rite Aid (1500 Northgate Drive), Applebees (3050 Northgate Mall), Sears and Sears Automotive Center ( 9000 Northgate Mall). In addition to the subject property buildings, the property is improved with asphalt-paved parking areas and associated landscaping.

### 1.0 Executive Summary (continued)

### 1.1 Subject Property Description (continued)

Various subject property tenants (current and former) were identified in the regulatory database as Resource Conservation Recovery Act (RCRA) Small Quantity Generator (SQG), Facility Index Site (FINDS), California Hazardous Materials Incident Report System (CHMIRS), Haznet, National Pollutant Discharge Elimination System (NPDES), Drycleaners, Historical (HIST) Underground Storage Tank (UST), Emissions Inventory (EMI) and Aboveground Storage Tank (AST) sites, and are further discussed in Section 6.0.

According to historical sources, the current subject property mall buildings were constructed beginning sometime between 1960 and 1965 for use as commercial buildings, the current automotive repair building (and associated gasoline dispensers) was constructed in 1971 and several more retail buildings were present on the site by 1980. By 1993 the site was developed as it is today. Prior to the construction of the buildings, the property was vacant land from at least 1946 to 1954. Addresses associated with the subject property include 1000-9000 Northgate Mall. This address range was researched during this investigation.

Please refer to Sections 4.2, 6.0 and 8.0 for further information regarding the current and former auto repair operations.

The immediately surrounding properties consist of Las Gallinas Avenue followed by offices ( 920 Northgate Drive), a 76 Gas Station (921 Del Presidio Boulevard), a Valero Gas Station (923 Del Presidio Boulevard) and various bank/office buildings (600-670 Las Gallinas Avenue) to the north; Las Gallinas Avenue followed by an office building ( 800 Las Gallinas Avenue), a shopping center (400-470 Las Gallinas Avenue), Goodyear Tire (496 Las Gallinas Avenue), Chase Bank (300 Las Gallinas Avenue) and Los Ranchitos Road followed by a cemetery to the east; Northgate Drive followed by an office building ( 555 Northgate Drive) and various single- and multi-family residences to the south; and Northgate Drive followed by vacant land and an office building ( 899 Northgate Drive) to the west.

Adjacent sites to the east beyond Las Gallinas Avenue were identified in the regulatory database as HIST UST, Drycleaners, FINDS, Haznet and RCRA SQG sites, while adjacent sites to the north beyond Las Gallinas Avenue were identified as RCRA SQG, RCRA Large Quantity Generator (LQG), UST, HIST Cortese, Leaking Underground Storage Tank (LUST), CHMIRS, HIST UST, Statewide Environmental Evaluation and Planning System (SWEEPS) UST, California (CA) Facility Inventory Database (FID) UST and UST sites and are further discussed in Section 6.0.

Based upon topographic map interpretation, groundwater flow beneath the subject property is inferred to be to the east-northeast and based on groundwater monitoring data for a nearby site, groundwater is expected to be encountered at 1 to 12 feet below ground surface (bgs).

### 1.2 Environmental Report Summary

Recognized environmental conditions (RECs) are defined by the ASTM Standard Practice E1527-05 as the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property. AEI's investigation has revealed the following recognized environmental conditions associated with the subject property or nearby properties:

- The subject property Sears Automotive Center is currently equipped with 14 belowground hydraulic lifts and was formerly equipped with an additional three belowground hydraulic lifts. No information identifying the specific installation date was available for review, therefore these lifts were presumably installed in 1971 when the automotive center was constructed and based on the pre-1977 installation of the lifts, the potential exists that the hydraulic fluid within the lift systems previously contained polychlorinated biphenyls (PCBs). In 1996, three lifts were removed from the subject property and the soil was found to contain up to 11,000 parts per million Total Petroleum Hydrocarbons as hydraulic oil (TPH-h) as well as polychlorinated biphenyls (PCBs) at 0.48 ppm . Groundwater was not encountered to seven feet bgs (soil boring maximum depth) and therefore no groundwater samples were collected. Additional soil was excavated to remove the contaminated soil; however, no confirmation sampling was performed. Due to the age of the equipment, the integrity of the current hydraulic lifts is unknown; however, as contamination was discovered in relation to the removed lifts the potential exists that the current lifts may have also leaked. In


### 1.0 Executive Summary (continued)

### 1.2 Environmental Report Summary (continued)

addition, due to the shallow depth to groundwater at the property, the potential exists that groundwater could be impacted by such a release. Therefore, based on the presence of the hydraulic lifts and the unknown concentrations of contamination remaining in the soil surrounding the removed lifts, the current and former presence of belowground hydraulic lifts represents a recognized environmental condition.

- Sears Automotive Center is reportedly equipped with an oil/water separator, which appears to be connected to a trench drain that runs the length of the repair shop . The separator is reportedly emptied by a third party. No information identifying the specific installation date was available for review, therefore the oil/water separator was presumably installed in 1971 when the automotive center was constructed. Additionally, no information regarding past sampling of the separator was available. Oil/water separators have the potential to act as conduits to the subsurface of properties. Due to the use of the subject property for vehicle repair, the potential use of perchloroethylene (PCE) and trichloroethylene (TCE) by Sears (as identified in regulatory database) in the auto repair operations and the lack of information indicating the length of time the separator has been located onsite, there is a potential that contaminants such as oils or solvents present in the waste stream could impact the soil beneath the property if the separator or associated drain system has become compromised. On this basis, the presence of the clarifier represents a recognized environmental condition.
- According to historical sources, it appears the subject property was developed with a gas station and automotive center in 1971/1972. According to a November 1999 San Rafael Fire Department (SRFD) letter to Sears, Roebuck and Co, up to eight gasoline, waste oil and/or new oil underground storage tanks (USTs) were associated with the onsite Sears Automotive Center and were reportedly removed from the subject property in 1985 and 1987 while fuel island dispensers and products lines were removed from the site in 1994. However, a Marin County Environmental Health Department (MCEHD) UST removal application and a UST removal invoice provided by the client only identified the removal of four USTs and it is therefore unclear if USTs remain on the subject property. In a March 1987 "Clearance" letter to Sears, Roebuck Co., the MCEHD indicated that the "analysis of samples of the soil and groundwater at the above site indicated a safe level or absence of any residual of the product formerly stored in underground storage tanks" at the subject property; however, it is unknown whether any residual contamination remains at the subject property and according to the 1999 SRFD letter, further soil borings and groundwater samples were needed at the site to sample for Methyl tert-Butyl Ether (MtBE) prior to site closure per the Regional Water Quality Control Board (RWQCB). No information regarding the testing of the site for MtBE was provided to AEI or available at the MCEHD, SRFD or RWQCB. While a 1987 "Clearance" letter does exist for the property, based on the lack of sampling data associated with the removal of the USTs, the lack of MtBE sampling; and the lack of removal documentation available for the USTs, it is unknown whether any contamination or USTs remain at the subject property and therefore the USTs represent a significant environmental concern.

Historical recognized environmental conditions (HRECs) are defined by the ASTM Standard Practice E1527-05 as an environmental condition which in the past would have been considered a recognized environmental condition, but which may or may not be considered a recognized environmental condition currently. AEI's investigation has revealed the following historical recognized environmental conditions associated with the subject property or nearby properties:

- No on-site historical recognized environmental conditions were identified during the course of this investigation.

Environmental issues include environmental concerns identified by AEI that warrant discussion but do not qualify as recognized environmental conditions, as defined by the ASTM Standard Practice E1527-05. AEI's investigation has revealed the following environmental issues associated with the subject property or nearby properties:

- Due to the age of the subject property buildings, there is a potential that asbestos-containing materials (ACMs) are present. All suspect ACMs were observed in good condition and are not expected to pose a health and safety concern to the occupants of the subject property at this time. In the event that building renovation or demolition activities are planned, an asbestos survey adhering to Asbestos Hazard Emergency Response Act (AHERA) sampling protocol should be performed prior to demolition or renovation activities that may disturb suspect ACMs.


### 1.0 Executive Summary (continued)

### 1.2 Environmental Report Summary (continued)

Due to the age of the subject property buildings, there is a potential that lead-based paint (LBP) is present. All observed painted surfaces were in good condition and are not expected to pose a health and safety concern to the occupants of the subject property at this time. Local regulations may apply to lead-based paint in association with building demolition/renovations and worker/occupant protection. Actual material samples would need to be collected or an XRF survey performed in order to determine if LBP is present. It should be noted that construction activities that disturb materials or paints containing any amount of lead may be subject to certain requirements of the OSHA lead standard contained in 29 CFR 1910.1025 and 1926.62

| Report Section |  | Results | Recommendations | Cost Estimate Range |
| :---: | :---: | :---: | :---: | :---: |
| 1.3 | Data Gaps | Low-Risk | None |  |
| 3.2 | Activity and Use Limitations | No Risk | None |  |
| 4.1 | Environmental Liens | No Risk | None |  |
| 5.1 | Historical Background | Potentially Sig. Risk | Phase II | Approximately \$20,000 for UST/clarifier/ belowground lift sampling |
| 5.2 | Subject Property | Potentially Sig. Risk | Phase II | See cost estimate for Historical Background |
| 5.3 | Adjoining Properties | Low-Risk | None |  |
| 6.0 | Federal, State, Local \& Tribal Database Listings | Low-Risk | None |  |
| 7.1 | Hazardous Substances | Low-Risk | None |  |
| 7.2 | Unidentified Containers | No Risk | None |  |
| 7.3 | Staining | No Risk | None |  |
| 7.4 | Stressed Vegetation | No Risk | None |  |
| 7.5 | Aboveground Storage Tanks (ASTs) | Low-Risk | None |  |
| 7.6 | Underground Storage Tanks (USTs) | Potentially Sig. Risk | Phase II | $\begin{aligned} & \text { Approximately } \\ & \$ 2,000 \end{aligned}$ |
| 7.7 | Pits, Ponds, And Lagoons | No Risk | None |  |
| 7.8 | PCB-Containing Equipment | Potentially Sig. Risk | Phase II | See cost estimate for Historical Background |
| 7.9 | Solid Waste Disposal | No Risk | None |  |
| 7.10 | Wetlands | No Risk | None |  |
| 7.11 | Septic System with On-Site Drainfield | No Risk | None |  |
| 7.12 | Oil/Water Separator | Potentially Sig. Risk | Phase II | See cost estimate for Historical Background |
| 7.13 | Dry Wells or Injection Wells | No Risk | None |  |
| 7.14 | Contamination of Soil | No Risk | None |  |
| 7.15 | Contamination of Groundwater | No Risk | None |  |
| 7.16 | Vapor Intrusion | No Risk | None |  |
| 7.17 | Use of Pesticides on Site | No Risk | None |  |
| 7.18 .1 | Asbestos | Low-Risk | None |  |
| 7.18 .2 | Lead | Low-Risk | None |  |
| 7.18 .3 | Radon | Low-Risk | None |  |
| 7.18 .4 | Lead in Drinking Water | Low-Risk | None |  |
| 7.18 .5 | Mold | Low-Risk | None |  |
| 7.18.6 | All Other Concerns | Not Applicable | None |  |

### 1.0 Executive Summary (continued)

### 1.2 Environmental Report Summary (continued)

| Report Section | Results | Recommendations | Cost Estimate Range |  |
| :--- | :--- | :--- | :--- | :--- |
| $\mathbf{8 . 0}$ | Interviews | Potentially Sig. Risk | Phase II | See cost estimate for <br> Historical <br> Background |

### 1.3 Data Gaps

The following data gap was identified during the course of this investigation:
The earliest historical resource obtained during this investigation was an aerial photograph from 1946. The lack of historical sources for the subject property between 1940 and 1946 represents historical data source failure. However, in the 1946 aerial photograph, the subject property and surrounding area appear as vacant land. Thus, it is assumed that prior to 1957 the subject property would have been undeveloped. Based on this notion, this data gap is not expected to significantly alter the findings of this investigation.

### 1.4 Findings and Opinions

AEI's investigation revealed recognized environmental conditions associated with the subject property that require further investigation.

### 1.5 Recommendations

Subsurface sampling in the vicinity of the current and former lifts, area of the clarifier and area of the former USTs is recommended to determine if the historical and current use of hazardous materials by Sears, Roebuck and Co. has affected the subject property.

Additionally, a geophysical survey would need to be performed to determine if any USTs currently remain on the subject property.

## Detail Report

## General Information

Project Information:
284110/NorthgateMall/09-003136-01-1
Project Number: 284110
RIMS Project \#: 09-003136-01-1
Consultant Information:
AEI Consultants
2500 Camino Diablo
Walnut Creek, CA 94597
Phone:
925.283.6000

Fax: 925.746.6099
E-mail Address: bsolaegui@aeiconsultants.com
Inspection Date: 07/14/2009
Report Date: 08/06/2009

## Site Information:

Northgate Mall
5800 Northgate Mall
San Rafael, CA 94903
County: Marin
Latitude, Longitude: $\quad 38.005200,-122.544000$
Site Access Contact:
Client Information:
US Bank
Karla Thomas
950 17th St., 12th Floor
Denver, CO 80202

## Site Assessor:

Buo R Solayno
Brie Solaegui Project Manager

Senior Reviewer:
Orion Alcalay
On Behalf Of Peter McIntyre, PG, REA - Senior Project
Vice President, Due Diligence Services

## EP Certification:

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in 312.10 of this part.
(1)NO

Orion Alcalay - Vice President, Due Diligence Services

## Standard Certification:

I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.


Brie Solaegui - Project Manager

### 1.0 Executive Summary

### 1.1 Subject Property Description

The subject property is bound by Las Gallinas Avenue to the north and northeast, Los Ranchitos Road to the east, and Northgate Drive to the west and south and is bisected by Northgate Mall. The site is located in a mixed commercial and residential area of San Rafael, California. The property totals approximately 66.32 acres and is improved with two single-story buildings, one mixed one- and two-story building and one building that is currently under construction, totaling approximately 713,000 square feet. The buildings are occupied by various retail businesses within the Northgate Mall ( 5800 Northgate Mall), as well as Macy's (1000 Northgate Mall), Rite Aid (1500 Northgate Drive), Applebees (3050 Northgate Mall), Sears and Sears Automotive Center ( 9000 Northgate Mall). In addition to the subject property buildings, the property is improved with asphalt-paved parking areas and associated landscaping.

Various subject property tenants (current and former) were identified in the regulatory database as Resource Conservation Recovery Act (RCRA) Small Quantity Generator (SQG), Facility Index Site (FINDS), California Hazardous Materials Incident Report System (CHMIRS), Haznet, National Pollutant Discharge Elimination System (NPDES), Drycleaners, Historical (HIST) Underground Storage Tank (UST), Emissions Inventory (EMI) and Aboveground Storage Tank (AST) sites, and are further discussed in Section 6.0.

According to historical sources, the current subject property mall buildings were constructed beginning sometime between 1960 and 1965 for use as commercial buildings, the current automotive repair building (and associated gasoline dispensers) was constructed in 1971 and several more retail buildings were present on the site by 1980. By 1993 the site was developed as it is today. Prior to the construction of the buildings, the property was vacant land from at least 1946 to 1954. Addresses associated with the subject property include 1000-9000 Northgate Mall. This address range was researched during this investigation.

Please refer to Sections 4.2, 6.0 and 8.0 for further information regarding the current and former auto repair operations.

The immediately surrounding properties consist of Las Gallinas Avenue followed by offices ( 920 Northgate Drive), a 76 Gas Station (921 Del Presidio Boulevard), a Valero Gas Station (923 Del Presidio Boulevard) and various bank/office buildings (600-670 Las Gallinas Avenue) to the north; Las Gallinas Avenue followed by an office building ( 800 Las Gallinas Avenue), a shopping center (400-470 Las Gallinas Avenue), Goodyear Tire (496 Las Gallinas Avenue), Chase Bank (300 Las Gallinas Avenue) and Los Ranchitos Road followed by a cemetery to the east; Northgate Drive followed by an office building ( 555 Northgate Drive) and various single- and multi-family residences to the south; and Northgate Drive followed by vacant land and an office building ( 899 Northgate Drive) to the west.

Adjacent sites to the east beyond Las Gallinas Avenue were identified in the regulatory database as HIST UST, Drycleaners, FINDS, Haznet and RCRA SQG sites, while adjacent sites to the north beyond Las Gallinas Avenue were identified as RCRA SQG, RCRA Large Quantity Generator (LQG), UST, HIST Cortese, Leaking Underground Storage Tank (LUST), CHMIRS, HIST UST, Statewide Environmental Evaluation and Planning System (SWEEPS) UST, California (CA) Facility Inventory Database (FID) UST and UST sites and are further discussed in Section 6.0.

Based upon topographic map interpretation, groundwater flow beneath the subject property is inferred to be to the east-northeast and based on groundwater monitoring data for a nearby site, groundwater is expected to be encountered at 1 to 12 feet below ground surface (bgs).

### 1.2 Environmental Report Summary

Recognized environmental conditions (RECs) are defined by the ASTM Standard Practice E1527-05 as the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property. AEI's investigation has revealed the following recognized environmental conditions associated with the subject property or nearby properties:

- The subject property Sears Automotive Center is currently equipped with 14 belowground hydraulic lifts and was formerly equipped with an additional three belowground hydraulic lifts. No information identifying the specific installation date was available for review, therefore these lifts were presumably


### 1.0 Executive Summary (continued)

### 1.2 Environmental Report Summary (continued)

installed in 1971 when the automotive center was constructed and based on the pre-1977 installation of the lifts, the potential exists that the hydraulic fluid within the lift systems previously contained polychlorinated biphenyls (PCBs). In 1996, three lifts were removed from the subject property and the soil was found to contain up to 11,000 parts per million Total Petroleum Hydrocarbons as hydraulic oil (TPH-h) as well as polychlorinated biphenyls (PCBs) at 0.48 ppm . Groundwater was not encountered to seven feet bgs (soil boring maximum depth) and therefore no groundwater samples were collected. Additional soil was excavated to remove the contaminated soil; however, no confirmation sampling was performed. Due to the age of the equipment, the integrity of the current hydraulic lifts is unknown; however, as contamination was discovered in relation to the removed lifts the potential exists that the current lifts may have also leaked. In addition, due to the shallow depth to groundwater at the property, the potential exists that groundwater could be impacted by such a release. Therefore, based on the presence of the hydraulic lifts and the unknown concentrations of contamination remaining in the soil surrounding the removed lifts, the current and former presence of belowground hydraulic lifts represents a recognized environmental condition.

- Sears Automotive Center is reportedly equipped with an oil/water separator, which appears to be connected to a trench drain that runs the length of the repair shop : The separator is reportedly emptied by a third party. No information identifying the specific installation date was available for review, therefore the oil/water separator was presumably installed in 1971 when the automotive center was constructed. Additionally, no information regarding past sampling of the separator was available. Oil/water separators have the potential to act as conduits to the subsurface of properties. Due to the use of the subject property for vehicle repair, the potential use of perchloroethylene (PCE) and trichloroethylene (TCE) by Sears (as identified in regulatory database) in the auto repair operations and the lack of information indicating the length of time the separator has been located onsite, there is a potential that contaminants such as oils or solvents present in the waste stream could impact the soil beneath the property if the separator or associated drain system has become compromised. On this basis, the presence of the clarifier represents a recognized environmental condition.
- According to historical sources, it appears the subject property was developed with a gas station and automotive center in 1971/1972. According to a November 1999 San Rafael Fire Department (SRFD) letter to Sears, Roebuck and Co, up to eight gasoline, waste oil and/or new oil underground storage tanks (USTs) were associated with the onsite Sears Automotive Center and were reportedly removed from the subject property in 1985 and 1987 while fuel island dispensers and products lines were removed from the site in 1994. However, a Marin County Environmental Health Department (MCEHD) UST removal application and a UST removal invoice provided by the client only identified the removal of four USTs and it is therefore unclear if USTs remain on the subject property. In a March 1987 "Clearance" letter to Sears, Roebuck Co., the MCEHD indicated that the "analysis of samples of the soil and groundwater at the above site indicated a safe level or absence of any residual of the product formerly stored in underground storage tanks" at the subject property; however, it is unknown whether any residual contamination remains at the subject property and according to the 1999 SRFD letter, further soil borings and groundwater samples were needed at the site to sample for Methyl tert-Butyl Ether (MtBE) prior to site closure per the Regional Water Quality Control Board (RWQCB). No information regarding the testing of the site for MtBE was provided to AEI or available at the MCEHD, SRFD or RWQCB. While a 1987 "Clearance" letter does exist for the property, based on the lack of sampling data associated with the removal of the USTs, the lack of MtBE sampling; and the lack of removal documentation available for the USTs, it is unknown whether any contamination or USTs remain at the subject property and therefore the USTs represent a significant environmental concern.

Historical recognized environmental conditions (HRECs) are defined by the ASTM Standard Practice E1527-05 as an environmental condition which in the past would have been considered a recognized environmental condition, but which may or may not be considered a recognized environmental condition currently. AEI's investigation has revealed the following historical recognized environmental conditions associated with the subject property or nearby properties:

- No on-site historical recognized environmental conditions were identified during the course of this investigation.

Environmental issues include environmental concerns identified by AEI that warrant discussion but do not qualify as recognized environmental conditions, as defined by the ASTM Standard Practice E1527-05. AEI's investigation has revealed the following environmental issues associated with the subject property or nearby properties:

### 1.0 Executive Summary (continued)

### 1.2 Environmental Report Summary (continued)

- Due to the age of the subject property buildings, there is a potential that asbestos-containing materials (ACMs) are present. All suspect ACMs were observed in good condition and are not expected to pose a health and safety concern to the occupants of the subject property at this time. In the event that building renovation or demolition activities are planned, an asbestos survey adhering to Asbestos Hazard Emergency Response Act (AHERA) sampling protocol should be performed prior to demolition or renovation activities that may disturb suspect ACMs.
- Due to the age of the subject property buildings, there is a potential that lead-based paint (LBP) is present. All observed painted surfaces were in good condition and are not expected to pose a health and safety concern to the occupants of the subject property at this time. Local regulations may apply to lead-based paint in association with building demolition/renovations and worker/occupant protection. Actual material samples would need to be collected or an XRF survey performed in order to determine if LBP is present. It should be noted that construction activities that disturb materials or paints containing any amount of lead may be subject to certain requirements of the OSHA lead standard contained in 29 CFR 1910.1025 and 1926.62

| Report Section |  | Results | Recommendations | Cost Estimate Range |
| :---: | :---: | :---: | :---: | :---: |
| 1.3 | Data Gaps | Low-Risk | None |  |
| 3.2 | Activity and Use Limitations | No Risk | None |  |
| 4.1 | Environmental Liens | No Risk | None |  |
| 5.1 | Historical Background | Potentially Sig. Risk | Phase II | Approximately \$20,000 for UST/clarifier/ belowground lift sampling |
| 5.2 | Subject Property | Potentially Sig. Risk | Phase II | See cost estimate for Historical Background |
| 5.3 | Adjoining Properties | Low-Risk | None |  |
| 6.0 | Federal, State, Local \& Tribal Database Listings | Low-Risk | None |  |
| 7.1 | Hazardous Substances | Low-Risk | None |  |
| 7.2 | Unidentified Containers | No Risk | None |  |
| 7.3 | Staining | No Risk | None |  |
| 7.4 | Stressed Vegetation | No Risk | None |  |
| 7.5 | Aboveground Storage Tanks (ASTs) | Low-Risk | None |  |
| 7.6 | Underground Storage Tanks (USTs) | Potentially Sig. Risk | Phase II | $\begin{aligned} & \text { Approximately } \\ & \$ 2,000 \end{aligned}$ |
| 7.7 | Pits, Ponds, And Lagoons | No Risk | None |  |
| 7.8 | PCB-Containing Equipment | Potentially Sig. Risk | Phase II | See cost estimate for Historical Background |
| 7.9 | Solid Waste Disposal | No Risk | None |  |
| 7.10 | Wetlands | No Risk | None |  |
| 7.11 | Septic System with On-Site Drainfield | No Risk | None |  |
| 7.12 | Oil/Water Separator | Potentially Sig. Risk | Phase II | See cost estimate for Historical Background |
| 7.13 | Dry Wells or Injection Wells | No Risk | None |  |
| 7.14 | Contamination of Soil | No Risk | None |  |
| 7.15 | Contamination of Groundwater | No Risk | None |  |
| 7.16 | Vapor Intrusion | No Risk | None |  |
| 7.17 | Use of Pesticides on Site | No Risk | None |  |

### 1.0 Executive Summary (continued)

### 1.2 Environmental Report Summary (continued)

| Report Section | Results | Recommendations | Cost Estimate Range |  |
| :--- | :--- | :--- | :--- | :--- |
| 7.18 .1 | Asbestos | Low-Risk | None |  |
| 7.18 .2 | Lead | Low-Risk | None |  |
| 7.18 .3 | Radon | Low-Risk | None |  |
| 7.18 .4 | Lead in Drinking Water | Low-Risk | None |  |
| 7.18 .5 | Mold | Low-Risk | None |  |
| 7.18 .6 | All Other Concerns | Not Applicable | None | See cost estimate for <br> Historical <br> Background |
| $\mathbf{8 . 0}$ | Interviews | Potentially Sig. Risk | Phase II |  |

### 1.3 Data Gaps

The following data gap was identified during the course of this investigation:
The earliest historical resource obtained during this investigation was an aerial photograph from 1946. The lack of historical sources for the subject property between 1940 and 1946 represents historical data source failure. However, in the 1946 aerial photograph, the subject property and surrounding area appear as vacant land. Thus, it is assumed that prior to 1957 the subject property would have been undeveloped. Based on this notion, this data gap is not expected to significantly alter the findings of this investigation.

### 1.4 Findings and Opinions

AEI's investigation revealed recognized environmental conditions associated with the subject property that require further investigation.

### 1.5 Recommendations

Subsurface sampling in the vicinity of the current and former lifts, area of the clarifier and area of the former USTs is recommended to determine if the historical and current use of hazardous materials by Sears, Roebuck and Co. has affected the subject property.

Additionally, a geophysical survey would need to be performed to determine if any USTs currently remain on the subject property.

### 2.0 Introduction

### 2.1 Purpose

The purpose of the Phase I Environmental Site Assessment is to identify potential environmental liabilities associated with the presence of hazardous materials, their use, storage, and disposal at and in the vicinity of the subject property, as well as regulatory non-compliance that may have occurred at the subject property. Property assessment activities focused on: 1) a review of federal, state, and local lists that identify and describe underground fuel tank sites, leaking underground fuel tank sites, hazardous waste generation sites, and hazardous waste storage and disposal facility sites within the ASTM approximate minimum search distance; 2) a property and surrounding site reconnaissance with personnel interviews to identify environmental contamination; and 3) a review of historical sources to help ascertain previous land use at the site and in the surrounding area.

The goal of AEI Consultants in conducting the environmental site assessment was to identify the presence or likely presence of any hazardous substances or petroleum products on the property that may indicate an existing release, a past release, or a material threat of a release of any hazardous substance or petroleum product into the soil, groundwater, or surface water of the property.

### 2.2 Scope of Services

The scope of services used in the completion of this report is specified under the Scope of Work developed in conjunction with US Bancorp and comply with the scope of services noted in ASTM Practice E 1527-05. Special Terms and Conditions, Limitations, and Exceptions are presented in Appendix D.

This document has been prepared in accordance with the specifications set forth in the Environmental Consulting \& Professional Services Agreement entered into on February 6, 2002 and the US Bancorp assignment letter dated June 24, 2009 for the subject property.

### 2.3 Deviations

No deviations from the recommended scope of ASTM Standard E $1527-05$ were performed as part of this Phase I ESA with the exception of any additions noted in Detailed Scope of Services.

### 2.4 Limitations

Property conditions, as well as local, state, tribal and federal regulations can change significantly over time. Therefore, the recommendations and conclusions presented as a result of this study apply strictly to the environmental regulations and property conditions existing at the time the study was performed. Available information has been analyzed using currently accepted assessment techniques and it is believed that the inferences made are reasonably representative of the property. AEI Consultants makes no warranty, expressed or implied, except that the services have been performed in accordance with generally accepted environmental property assessment practices applicable at the time and location of the study.

Considerations identified by ASTM as beyond the scope of a Phase I ESA that may affect business environmental risk at a given property include the following: asbestos-containing materials, radon, lead-based paint, lead in drinking water, wetlands, regulatory compliance, cultural and historic resources, industrial hygiene, health and safety, ecological resources, endangered species, indoor air quality, mold, vapor intrusion, and high voltage lines. These environmental issues or conditions may warrant assessment based on the type of the property transaction; however, they are considered non-scope issues under ASTM Standard Practice E1527-05.

If requested by the client, these non-scope issues are discussed in Section 6.2. Otherwise, the purpose of this investigation is solely to satisfy one of the requirements for qualification of the innocent landowner defense, contiguous property owner or bona fide prospective purchaser under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). ASTM Standard Practice E1527-05 and the EPA Standards and Practices for All Appropriate Inquiries (40 CFR Part 312) constitute the "all appropriate inquiry into the previous ownership and uses of the property consistent with good commercial or customary practice" as defined in:

### 2.0 Introduction (continued)

### 2.4 Limitations (continued)

- 42 U.S.C § 9601(35)(B), referenced in the ASTM Standard Practice E1527-05.
- Sections 101(35)(B) (ii) and (iii) of CERCLA and referenced in the EPA Standards and Practices for All Appropriate Inquiries (40 CFR Part 312).
- 42 U.S.C. 9601 (40) and 42 U.S.C. 9607 (q).

The Phase I Environmental Site Assessment is not, and should not be construed as, a warranty or guarantee about the presence or absence of environmental contaminants that may affect the property. Neither is the assessment intended to assure clear title to the property in question. The sole purpose of investigation into property title records is to ascertain a historical basis of prior land use. All findings, conclusions, and recommendations stated in this report are based upon facts, circumstances, and industry-accepted procedures for such services as they existed at the time this report was prepared (i.e., federal, state, and local laws, rules, regulations, market conditions, economic conditions, political climate, and other applicable matters). All findings, conclusions, and recommendations stated in this report are based on the data and information provided, and observations and conditions that existed on the date and time of the property visit. Responses received from local, state, or federal agencies or other secondary sources of information after the issuance of this report may change certain facts, findings, conclusions, or circumstances to the report. A change in any fact, circumstance, or industry-accepted procedure upon which this report was based may adversely affect the findings, conclusions, and recommendations expressed in this report.

### 2.5 Reliance

This report has been prepared for the sole benefit of US Bank. The report may not be relied upon by any other person or entity without the express written consent of AEI Consultants and US Bank.

### 3.0 Subject Property Description

### 3.1 Location and Legal Description

The subject property is bound by Las Gallinas Avenue to the north and northeast, Los Ranchitos Road to the east, and Northgate Drive to the west and south and is bisected by Northgate Mall. The site is located in a mixed commercial and residential area of San Rafael, California. The property totals approximately 66.32 acres and is improved with two single-story buildings, one mixed one- and two-story building and one building that is currently under construction, totaling approximately 713,000 square feet. The buildings are occupied by various retail businesses within the Northgate Mall ( 5800 Northgate Mall), as well as Macys (1000 Northgate Mall), Rite Aid (1500 Northgate Drive), Applebees (3050 Northgate Mall), Sears and Sears Automotive Center ( 9000 Northgate Mall). In addition to the subject property building, the property is improved with asphalt-paved parking areas and associated landscaping.

Various subject property tenants (current and former) were identified in the regulatory database as RCRA SQG, FINDS, CHMIRS, Haznet, NPDES, Drycleaners, HIST UST, EMI and AST sites, and are further discussed in Section 6.0.

The Assessor's Parcel Numbers (APNs) for the subject property are 175-060-12, 175-060-40, 175-060-59, $175-060-60$ and 175-060-61. Heating and cooling systems on the subject property are fueled by natural gas and electricity provided by Pacific Gas and Electric (PG\&E). Potable water and sewage disposal are provided by municipal services.

### 3.2 Activity and Use Limitations

Based on a review of the regulatory database and inquiries at the San Rafael Building Department, San Rafael Fire Department, Marin County Environmental Health Department, and California Regional Water Quality Control Board, no AULs associated with the subject property were identified during the course of this investigation.

### 3.3 Physical Setting

Based on a review of the United States Geological Survey (USGS) San Francisco Bay Quadrangle Geologic Map, the area surrounding the subject property is underlain by Holocene and Late Pleistocene era landslide deposits and clayey colluvium which are commonly characterized by dark-grey, greenish-grey, bluish-grey, green and grayish black unweathered inactive and active slump-earthflow deposits, weathering brown to reddish-brown principally composed of montmorillonite-rich clay and clay loam containing angular to rounded blocks of sandstone, chert, limestone, greenstone, schist, and gniss.

Based on a review of the USGS Novato, California Quadrangle Topographic Map, the subject property is situated 33-100 feet above mean sea level, and the local topography is gently sloped to the east. The nearest surface water is South Fork Gallinas Creek, located approximately 2,500 feet east of the subject property. Based upon topographic map interpretation, groundwater flow beneath the subject property is inferred to be to the east to northeast and based on groundwater monitoring data for a nearby site, groundwater is expected to be encountered at 1 to 12 feet below ground surface (bgs).

### 3.4 Subject Property and Vicinity Characteristics

The subject property is located in a mixed commercial and residential area of San Rafael, California.
The immediately surrounding properties consist of Las Gallinas Avenue followed by offices ( 920 Northgate Drive), a 76 Gas Station (921 Del Presidio Boulevard), a Valero Gas Station (923 Del Presidio Boulevard) and various bank/office buildings (600-670 Las Gallinas Avenue) to the north; Las Gallinas Avenue followed by an office building ( 800 Las Gallinas Avenue), a shopping center (400-470 Las Gallinas Avenue), Goodyear Tire (496 Las Gallinas Avenue), Chase Bank (300 Las Gallinas Avenue) and Los Ranchitos Road followed by a cemetery to the east; Northgate Drive followed by an office building ( 555 Northgate Drive) and various single- and multi-family residences to the south; and Northgate Drive followed by vacant land and an office building ( 899 Northgate Drive) to the west.

An adjacent site to the north at 930 Del Presidio Boulevard was identified in the regulatory database as a RCRA LGN, RCRA SGN, LUST, and UST site, while 921 Del Presidio Boulevard was identified as a LUST

### 3.0 Subject Property Description (continued)

### 3.4 Subject Property and Vicinity Characteristics (continued)

and UST site. One site to the east, Kerns and Walker Cleaners at 412 Las Gallinas Avenue, was identified as a RCRA SGN and drycleaners site. These sites are further discussed in Section 6.0.

### 3.5 Description of Subject Property Structures and Improvements

The property totals approximately 66.32 acres and is improved with two single-story buildings, one mixed one- and two-story building and one building that is currently under construction, totaling approximately 713,000 square feet. In addition to the subject property building, the property is improved with asphalt-paved parking areas and associated landscaping.

### 3.6 Current Uses of the Subject Property

The buildings are occupied by various retail businesses within the Northgate Mall ( 5800 Northgate Mall), as well as Macys (1000 Northgate Mall), Rite Aid (1500 Northgate Drive), Applebees (3050 Northgate Mall), Sears and Sears Automotive Center ( 9000 Northgate Mall). On-site operations include retail, theater, food service, administrative and automotive service activities.

### 4.0 User Provided Information

### 4.1 Environmental Liens

No environmental liens were reported for the subject property.

### 4.2 Environmental Reports or Investigations

Documentation was provided to AEI by Mr. Scott Kingsmore of Macerich during this investigation. A summary of this information follows:

## Hydraulic List Removal, Assessment and Site Remediation Activities, Sears Store \#1528, Dames and Moore (February 7, 1997)

According to the report, three belowground hydraulic lifts, located on the southeast corner of the building, were removed from the site in March 1996, in order to expand the Sears Automotive Center office area. At the time of removal, surface soil samples and soil samples at 3 feet bgs and approximately 7 feet bgs were collected from each excavation, with the exception of Lift 1, where a sample was not collected at 3 feet bgs. The samples were subsequently analyzed for Total Petroleum Hydrocarbons as gasoline (TPH-g), Total Petroleum Hydrocarbons as diesel (TPH-d) and Total Petroleum Hydrocarbons as hydraulic oil (TPH-h) while a sample from Lift 2 was also sampled for Volatile Organic Compounds (VOCs), Semi-Volatile Organic Compounds (SVOCs), and polychlorinated biphenyls (PCBs). While TPH-g and TPH-d were not detected in any of the samples above laboratory detection limits, TPH-h was detected up to 11,000 parts per million (ppm) (Lift 3-surface sample), up to 270 ppm (Lift 2- 3 feet bgs) and up to 830 ppm (Lift 3-7 feet bgs). Additionally, PCBs were detected in the Lift 2 -surface sample at 0.48 ppm , while SVOC bis (2-ehtylhexyl) phthalate was detected at 2.5 ppm . Based on the elevated levels of TPH-h (above $1,000 \mathrm{ppm}$ ), soils beneath Lifts 2 and 3 were excavated to a depth of 3 feet bgs; however, no confirmation sampling was performed as the initial samples collected at 3 feet bgs were below the cleanup guidance level.

## Dispenser Island and Product Line Removal Report, Cluor Daniel GTI (July 1, 1996)

According to the report, the dispenser island canopy, dispenser islands and associated product lines and new and used oil lines were removed from the area adjacent to the north of the Sears Automotive Center in 1994. Additionally, 34 cubic yards of soil was removed from the subject property. 17 soil samples were collected from beneath the gasoline product dispenser islands/vent lines/product lines at 2 to 4 feet bgs and analyzed for TPH-g, BTEX and lead, while five soil samples were collected from beneath the used oil line and oil supply lines at 2 to 5 feet bgs and analyzed for TPH-g, TPH-d, Total Recoverable petroleum hydrocarbons (TRPH), VOCs and metals. While lead was detected in the samples up to 10 ppm , no other contaminants with the exception of TRPH (up to 19 ppm in a sample collected from the used oil line trench) were detected.

Request for Closure, The IT Group (March 23, 1999)
IT Corporation requested case closure from the San Rafael Fire Department (SRFD) on behalf of Sears, Roebuck and Co. based on the following:

The hydrocarbon contamination source was removed in 1994.
Approximately 32 cubic yards of hydrocarbon-impacted soil was removed from the site in 1995. Original concentrations of compounds detected at a maximum of 4 feet bgs.

- Highest concentrations of compounds originally reported in excavated soil removed from the site.
- Impacted soil is within the upper 3-4 feet of the subsurface and attenuates with increased depths.
- Site remains covered with asphalt, which prevents infiltration and flushing of hydrocarbons into groundwater.

Please refer to Section 8.5 for further information regarding the SRFD response to this request for closure and request for additional information.

Additional records provided by the client indicated that the MCEHD approved the removal of two 500 -gallon bulk oil and one 1,000-gallon waste oil single-walled steal USTs in August 1986, which were installed in 1972. Additionally, a 1986 invoice for the removal of one 8,000 gallon gasoline UST was also provided; however, it is unclear how many other USTs may have been present at the site as a SRFD letter refers to the removal of eight USTs in 1985 and 1987. In a March 1987 "Clearance" letter to Sears, Roebuck Co., the MCEHD indicated that the "analysis of samples of the soil and groundwater at the above site indicated a safe level or absence of any residual of the product formerly stored in underground storage tanks" at the subject property; however, it is unknown whether any residual contamination remains at the subject property.

### 4.0 User Provided Information (continued)

### 4.3 Experience of User

The user did not report any specialized knowledge or experience that suggests an environmental concern or recognized environmental conditions in connection with the subject property.

### 5.0 Historical Use Information

### 5.1 Historical Background

Historical information identifying the past site use was obtained from a variety of sources as detailed in Appendix E of this report and included: CITY DIRECTORIES, AERIAL PHOTOGRAPHS, SANBORN FIRE INSURANCE MAPS, TOPOGRAPHIC MAPS, PREVIOUS ENVIRONMENTAL REPORTS, OTHERS.

According to historical sources, the current subject property mall building was constructed beginning sometime between 1960 and 1965 for use as commercial buildings, the current automotive repair building (and associated gasoline dispensers) was constructed in 1971 and several more retail buildings were present on the site by 1980. By 1993 the site was developed as it is today. Prior to the construction of the buildings, the property was vacant land from at least 1946 to 1954.

Please refer to Sections 4.2, 6.0 and 8.0 for further information regarding the current and former auto repair operations.

### 5.2 Subject Property

## Pre 1940s and 1940s:

In the 1946 aerial photograph, the subject property appears as vacant land.

## 1950s:

In the 1953 aerial photograph, the subject property appears as vacant land.
In a 1954 topographic map, the subject property is vacant land.

## 1960s:

The subject property street was not listed in the 1960 Polk Criss-Cross directory.
City directories reviewed for the subject property indicated that Emporium Department Store ( 1000 Northgate Mall) was present on the site in 1965, while Northgate Theater ( 2600 Northgate Mall) and various retail businesses (1000-5440 Northgate Mall) occupied the property beginning in 1966.

In the 1965 aerial photograph, four structures are constructed on the northern portion of the subject property, while the southern portion of the property is vacant land and appears to have construction equipment on the south side of the property.

The oldest permit on file with the San Rafael Building Department (SRBD) for the subject property indicated that a new manager's office was constructed on the property in 1967 and five structures had already been constructed.

In a 1968 topographic map, the subject property is developed with four structures, which were later joined to create the northern portion of the current shopping mall.

## 1970s:

Permits on file with the SRBD indicate that a new Sear's as well as a Sear's Auto Center and associated gas dispensers were constructed/installed on the property in 1971.

## 1980s:

In a 1980 topographic map, the subject property is developed with seven structures that have since been joined to create the the current shopping mall, as well as the Sear's administrative building and automotive center/gas station and parking garage structures.

In the 1982 aerial photograph, the main subject property building is developed in it's current configuration, and the Sear's administrative building and automotive center/gas station buildings have also been constructed; however, the current Rite Aid building and former Mervyn's building have yet to be constructed.

Permits on file with the SRBD indicate that four underground storage tanks (USTs) were removed from the subject property, while one aboveground storage tank (AST) was installed on the site in 1986.

### 5.0 Historical Use Information (continued)

### 5.2 Subject Property (continued)

## 1990s:

In the 1993 and 1998 aerial photograph, the subject property is developed as it is today with the current Rite Aid and Mervyn's buildings having been constructed.

## 2000s:

Permits on file with the SRBD indicate that various tenant improvements as well as interior demolitions have been performed on the property from at least 2000-2008.

In the 2005 aerial photograph, the subject property is developed as it is today.

### 5.3 Adjoining Properties

## Pre 1940s and 1940s:

In the 1946 aerial photograph, the surrounding properties appear as vacant land with the exception of a site to the northeast beyond Las Gallinas Avenue which appears to be developed with a commercial structure, while the site to the east beyond Los Ranchitos Road is developed in the current cemetery configuration.

## 1950s:

In the 1953 aerial photograph, the surrounding properties remain unchanged.

## 1960s:

In the 1965 aerial photograph, the surrounding properties appear to be developed with gas stations (and associated canopies) and commercial buildings to the north beyond Las Gallinas Avenue, vacant land beyond Las Gallinas Avenue and the current cemetery to the east beyond Los Ranchitos Road, vacant land and single-family residences to the south beyond Northgate Drive and vacant land to the west beyond Northgate Drive.

## 1970s:

No source available.

## 1980s:

In the 1982 aerial photograph, the surrounding properties appear to be developed with gas stations (and associated canopies) and commercial buildings to the north beyond Las Gallinas Avenue, commercial buildings beyond Las Gallinas Avenue and the current cemetery to the east beyond Los Ranchitos Road, commercial buildings and single-family residences to the south beyond Northgate Drive and vacant land to the west beyond Northgate Drive.

## 1990s:

In the 1993 and 1998 aerial photographs, the surrounding properties appear to be developed with gas stations (and associated canopies) and commercial buildings to the north beyond Las Gallinas Avenue, commercial buildings beyond Las Gallinas Avenue and the current cemetery to the east beyond Los Ranchitos Road, commercial buildings and single-family residences to the south beyond Northgate Drive and vacant land and a commercial building to the west beyond Northgate Drive.

## 2000s:

In the 2005 aerial photograph, the surrounding properties appear as they are today.

### 5.4 Historically Significant or Environmental Findings

No historically significant or environmental findings were discovered within the scope of this investigation in connection with the subject property or adjoining properties with the exception of the following:

The eastern adjacent site is a cemetery. Environmental concerns have been identified in connection with cemeteries, including the presence of heavy metals, arsenic, and formaldehyde in soil and groundwater of these types of sites. However, based on the hydrologically downgradient position of this site relative to the subject property, the adjacent cemetery is not expected to represent a significant environmental concern.

### 6.0 Federal, State, Local \& Tribal Database Listings

An ASTM-compliant government records radial database report was obtained for this assessment. The following standard Federal database listings were searched if available: National Priorities List (NPL), Delisted NPL, Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS and CERCLIS-NFRAP), Resource Conservation and Recovery Information System - Treatment, Storage, and Disposal Facilities (RCRIS-TSD), RCRIS - Large and Small Quantity Generators (RCRIS-Generator), RCRIS Corrective Action Data (CORRACTS), Institutional and Engineering Controls (ICs/ECs), RCRIS Notifiers (NOTIFIERS) and Emergency Response Notification System (ERNS).

Additionally, the following standard State databases were searched if available: State Priorities List (SPL), State Hazardous Waste Site Voluntary Cleanup Program (VCP), Permitted Solid Waste Facilities/Landfill (SWF/LF) List, Leaking Underground Storage Tank (LUST) List, and the Registered Underground Storage Tank (UST) List, State/Tribal Brownfields. Criteria for being listed on each database and specific facility information are reviewed within the database report (see Appendix C).

Various subject property tenants (current and former) were identified in the regulatory database as RCRA SQG, FINDS, CHMIRS, HAZNET, NPDES, DRYCLEANERS, HIST UST, EMI and AST sites, and are further discussed below. Adjacent sites to the east beyond Las Gallinas Avenue were identified in the regulatory database as HIST UST, DRYCLEANERS, FINDS, HAZNET and RCRA SQG sites, while adjacent sites to the north beyond Las Gallinas Avenue were identified as RCRA-SQG, RCRA-LQG, UST, HIST CORTESE, LUST, CHMIRS, HIST UST, SWEEPS UST, CA FID UST and UST sites, as further discussed below.

Additionally, other sites are discussed in detail below due to their relative proximity to the subject property, the nature of the listing, and/or hydrological position relative to the subject property.

Based on the relative distance from the subject property, inferred direction of groundwater flow, and/or regulatory status, the remaining listed sites are not expected to represent a significant environmental concern.

| Database | Target Property | Search Distance (Miles) | < 1/8 | 1/8-1/4 | 1/4-1/2 | 1/2-1 | >1 | Total Plotted |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| NPL |  | (Miles) | 0 | 0 | 0 | 0 | NR | 0 |
| CERCLIS |  | 0.5 | 0 | 0 | 0 | NR | NR | 0 |
| CERCLIS-NFRAP |  | 0.5 | 0 | 0 | 0 | NR | NR | 0 |
| CORRACTS |  | . | 0 | 0 | 0 | 1 | NR | 1 |
| RCRA-TSDF |  | 1 | 0 | 0 | 0 | 1 | NR | 1 |
| RCRA-LQG |  | 0.25 | 2 | 0 | NR | NR | NR | 2 |
| RCRA-SQG | X | 0.25 | 7 | 1 | NR | NR | NR | 8 |
| ERNS |  | TP | NR | NR | NR | NR | NR | 0 |
| US ENG CONTROLS |  | 0.5 | 0 | 0 | 0 | NR | NR | 0 |
| US INST CONTROL |  | 0.5 | 0 | 0 | 0 | NR | NR | 0 |
| FINDS | X | TP | NR | NR | NR | NR | NR | 0 |
| LUST |  | 0.5 | 6 | 0 | 4 | NR | NR | 10 |
| UST |  | 0.25 | 13 | 0 | NR | NR | NR | 13 |
| AST |  | 0.25 | 1 | 0 | NR | NR | NR | 1 |
| VCP |  | 0.5 | 0 | 0 | 0 | NR | NR | 0 |
| DRYCLEANERS |  | 0.25 | 2 | 0 | NR | NR | NR | 2 |
| CHMIRS | X | TP | NR | NR | NR | NR | NR | 0 |
| SWF/LF (SWIS) |  | 0.5 | 0 | 0 | 0 | NR | NR | 0 |
| ENVIROSTOR |  | 1 | 0 | 0 | 0 | 3 | NR | 3 |
| NPDES | X | TP | NR | NR | NR | NR | NR | 0 |
| HIST CAL-SITES |  | 1 | 0 | 0 | 0 | 0 | NR | 0 |
| HAZNET | X | TP | NR | NR | NR | NR | NR | 0 |
| SLIC |  | 0.5 | 0 | 0 | 0 | NR | NR | 0 |

### 6.0 Federal, State, Local \& Tribal Database Listings (continued)

| Site Name: | RITE AID NO 5958 |
| :--- | :--- |
| Databases: | RCRA-SQG, FINDS |
| Address: | 1500 NORTHGATE MALL |
| Distance: | Subject Property |
| Direction: | N/A |
| Elevation: | N/A |
| Comments: | According to the database, Rite Aid maintained various photo developing chemicals beginning <br> in 1998; however, according to records on file with the MCEHD photo developing operations <br> ceased circa November 200. Based on the lack of documented releases and the nature of the |
|  | cisting, this site is not expected to represent a significant environmental concern. |
|  |  |


| Site Name: | EXPRESSLY PORTRAITS INC |
| :--- | :--- |
| Databases: | RCRA-SQG, FINDS |
| Address: | 5600 NORTHGATE MALL |
| Distance: | Subject Property |
| Direction: | N/A |
| Elevation: | N/A |
| Comments: | According to the database, expressly portraits maintained hazardous materials on the subject <br> property. According to records on file with the MCEHD, a silver recovery unit was located <br>  <br>  <br>  <br>  <br> onsite from November 1993 to December 202; however, based on the lack of documented <br> releases and nature of the listing, this site is not expected to represent a significant <br> environmental concern. |


| Site Name: | NORTHGATE MALL |
| :--- | :--- |
| Databases: | CHMIRS, HAZNET, FINDS, RCRA-SQG, NPDES |
| Address: | 5800 NORTHGATE MALL |
| Distance: | Subject Property |
| Direction: | N/A |
| Elevation: | N/A |

Comments: According to the RCRA SQG database, the subject property maintains unidentified hazardous materials; however, no violations were reported. According to the HAZNET database, 0.075 tons of unspecified organic mixture were disposed of from the subject property. Please refer to Section 8.6 for further information regarding the hazardous materials stored on the subject property. According to the CHMIRS database, in November 1997125 gallons of transformer oil leaked into the underground transformer vault. AEI presumes that as the vault was present minimal (if any) contamination would have reached the soil and therefore the CHMIRs listing is not expected to represent a significant environmental concern. Additionally, any cleanup costs would be the responsibility of the utility company.

| Site Name: | SEARS \#8108 |
| :--- | :--- |
| Databases: | RCRA-SQG, DRYCLEANERS, HAZNET |
| Address: | 8108 NORTHGATE MALL |
| Distance: | Subject Property |
| Direction: <br> Elevation: | N/A |

Comments: According to the RCRA SQG database, Sears, Roebuck and Co. utilized lead, benzene, tetrachloroethylene (PCE) and trichloroethylene (TCE) on the subject property, which based on the lead and benzene listings are assumed to be associated with the onsite automotive center. While the HAZNET database indicates that 0.07 tons of hydrocarbon solvents have been disposed of from the subject property. According to the Cleaners database, Sears, Roebuck and Co. was also a laundry and garment service site as of March 4, 2003; however, according to representatives at Sears and Macerich, no dry cleaning has taken place on the subject property and the use of PCE and TCE were likely associated with the auto repair operations. Please refer to Section 8.5 for further information regarding the hazardous materials stored on the subject property.

### 6.0 Federal, State, Local \& Tribal Database Listings (continued)

| Site Name: | WALDEN BOOK CO |
| :---: | :---: |
| Databases: | HAZNET |
| Address: | 5800 NORTHGATE DR SPACE 83 |
| Distance: | Subject Property |
| Direction: | N/A |
| Elevation: | N/A |
| Comments: | According to the HAZNET database, 0.200 tons of unspecified oil-containing waste was disposed of from the property. Please refer to Section 8.5 for further information regarding the hazardous materials stored on the subject property. |

Site Name: SEARS
Databases: RCRA-SQG, HAZNET, FINDS
Address: 9000 NORTHGATE
Distance: Subject Property
Direction: N/A
Elevation: N/A
Comments: According to the RCRA SQG database, various ignitable wastes are stored on the subject property; however no violations have been found. According to the HAZNET database, various off-specification, aged, or surplus organics, alkaline solutions without metals, latex wastes and aqueous solutions have been disposed of from the subject property. Please refer to Section 8.5 for further information regarding the hazardous materials stored on the subject property.

Site Name: SEARS AUTO CENTER
Databases: HIST UST, EMI, HAZNET
Address: 9000 NORTHGATE MALL
Distance: Subject Property
Direction: N/A
Elevation: N/A
Comments: According to the HAZNET database, various amounts of unspecified oil containing waste have been disposed of from the subject property. According to the HIST UST database, four "product" USTs and three waste oil USTs were removed from the subject property in 1972. According to the EMI database, various contaminants have been released into the atmosphere since 2006. Please refer to Section 8.5 for further information regarding the hazardous materials stored on the subject property.

Site Name: JIFFY LUBE \#1590
Databases: AST, FINDS
Address: 9000 NORTHGATE MALL
Distance: Subject Property
Direction: N/A
Elevation: N/A
Comments: According to the AST database, one 2,100-gallon AST was utilized by Jiffy Lube on the subject property. Please refer to Section 8.5 for further information regarding the hazardous materials stored on the subject property.

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Site Name: KERNS AND WALKER CLEANERS
Databases: DRYCLEANERS, FINDS, HAZNET, RCRA-SQG
Address: 412 LAS GALLINAS AVENUE
Distance: 27
Direction: East-southeast (hydrologically downgradient)
Elevation: Lower
Comments: According to the database, this site was a cleaners that maintained and disposed of halogenated organic compounds; however, based on the lack of documented release and the inferred direction of groundwater flow, this site is not expected to represent a significant environmental concern.
```


### 6.0 Federal, State, Local \& Tribal Database Listings (continued)

Site Name: VALERO REFINING CO CAL NO 77067, EXXON CO. USA. \# 77067, FORMER EXXON 7-7067, Northgate Valero
Databases: RCRA-SQG, RCRA-LQG, UST, HIST CORTESE, LUST, CHMIRS, HIST UST, SWEEPS UST, CA FID UST
Address: 930 DEL PRESIDIO BLVD
Distance: Approximately 50 feet
Direction: North (hydrologically cross-gradient)
Elevation: Higher
Comments: According to records on file with the Regional Water Quality Control Board (RWQCB) online Geotracker database, groundwater at this site flows to the southwest. Two groundwater monitoring wells were located on the sidewalk adjacent to the north side of the subject property (identified as EA-12 and EA-13). No groundwater contamination has been detected in either well since 2006. Regulatory case closure was granted to the site in April 2009 and EA-12 and EA-13 were subsequently destroyed. Based on the lack of groundwater contamination present in EA-12 and EA-13 and the current regulatory status this site is not expected to represent a significant environmental concern.

Site Name: CONOCOPHILLIPS, TERRA LINDA 76 CAR WASH \#254774
Databases: LUST, UST
Address: 921 DEL PRESIDIO
Distance: Approximately 50 feet
Direction: North (hydrologically cross-gradient)
Elevation: Higher
Comments: According to records on file with the RWQCB online Geotracker database, groundwater at this site flows to the northwest. Two groundwater monitoring wells were located on the sidewalk adjacent to the north side of the subject property (identified as EA-12 and EA-13). No groundwater contamination has been detected in either well since 2006. The case is currently open, but is being prepared for closure. Based on the the inferred direction of groundwater flow, this site is not expected to represent a significant environmental concern.

Site Name: GOODYEAR TIRE \& RUBBER CO.
Databases: HIST UST
Address: 496 LAS GALLINAS AVE
Distance: Approximately 50 Feet
Direction: East (hydrologically downgradient)
Elevation: Lower
Comments: According to the HIST UST database, one waste oil UST was removed from the site in 1973. Based on the lack of documented releases associated with this site, this listing is not expected to represent a significant environmental concern.

### 7.0 Site Reconnaissance

### 7.1 Hazardous Substances

Various hazardous materials were observed at the Sears Automotive Center site including waste and new oil ASTs and approximately eleven 55-gallon drums; however, the materials were stored atop a concrete pad and no significant staining was observed. Therefore, no hazardous substances that constitute evidence of a recognized environmental condition were observed at the subject property at the time of the site reconnaissance.

### 7.2 Unidentified Containers

No unidentified containers that constitute evidence of a recognized environmental condition were observed at the subject property at the time of the site reconnaissance.

### 7.3 Staining

No unidentified staining that constitutes evidence of a recognized environmental condition was observed at the subject property at the time of the site reconnaissance.

### 7.4 Stressed Vegetation

No unidentified stressed vegetation that constitutes evidence of a recognized environmental condition was observed at the subject property at the time of the site reconnaissance.

### 7.5 Aboveground Storage Tanks (ASTs)

Various hazardous materials were observed at the Sears Automotive Center site including waste and new oil ASTs and approximately eleven 55-gallon drums; however, the materials were stored atop a concrete pad and no significant staining was observed. Therefore, no hazardous substances that constitute evidence of a recognized environmental condition were observed at the subject property at the time of the site reconnaissance.

### 7.6 Underground Storage Tanks (USTs)

Mr. Joey Elliot of Macerich stated to the best of his knowledge, that the subject property does not contain USTs. In addition, the regulatory records review did not indicate the current registration of USTs at the subject property, and no evidence of vent pipes, fill pipes, or access ways indicating USTs was discovered at the time of the site reconnaissance. However, USTs were formerly located onsite and according to a SRFD letter up to eight USTs may have been present on the subject property and it is unclear whether any USTs remain on the subject property. Please refer to Sections 4.2, 6.0 and 8.5 for further information regarding the former USTs.

### 7.7 Pits, Ponds, And Lagoons

No ponds or lagoons associated with onsite processes were observed at the subject property at the time of the site reconnaissance.

### 7.8 PCB-Containing Equipment

Toxic polychlorinated biphenyls (PCBs) were commonly used historically in electrical equipment such as transformers, fluorescent lamp ballasts, and capacitors. According to United States EPA regulation 40 CFR, Part 761, there are three categories for classifying such equipment: $<50 \mathrm{ppm}$ of PCBs is considered "Non-PCB"; between 50 and 500 ppm is considered "PCB-Contaminated"; and $>500 \mathrm{ppm}$ is considered "PCB-Containing".
The management of potential PCB-containing transformers is the responsibility of the local utility or the transformer owner. Actual material samples need to be collected to determine if transformers are PCB-containing.

### 7.0 Site Reconnaissance (continued)

### 7.8 PCB-Containing Equipment (continued)

## Transformers

Several pad-mounted transformers were observed on the subject property during the site inspection. The transformers are owned and operated by PG\&E and are not PCB containing. No spills, staining or leaks were observed on or around the transformers. Based on the good condition of the equipment, the transformers are not expected to represent a significant environmental concern.

## Hydraulic Lifts

The subject property Sears Automotive Center is currently equipped with approximately 14 belowground hydraulic lifts and was formerly equipped with an additional three belowground hydraulic lifts. These lifts were presumably installed in 1971 when the automotive center was constructed and based on the pre-1977 installation of the lifts, the potential exists that the hydraulic fluid within the lift systems previously contained polychlorinated biphenyls (PCBs). In 1996, three lifts were removed from the subject property and as previously discussed in Section 4.2, the soil was found to contain up to 11,000 parts per million Total Petroleum Hydrocarbons as hydraulic oil (TPH-h) as well as polychlorinated biphenyls (PCBs) at 0.48 ppm ; however, no groundwater was encountered to seven feet bgs. Additional soil was excavated to remove the contaminated soil; however, no confirmation sampling was performed. Due to the age of the equipment, the integrity of the hydraulic lifts is unknown; however, as contamination was discovered in relation to the removed lifts it is very likely that the integrity of the current lifts has also been compromised. In addition, due to the shallow depth to groundwater at the property, the potential exists that groundwater would be impacted by such a release. Therefore, based on the presence of the hydraulic lifts and the unknown concentrations of contamination remaining in the soil at the sites of the removed lifts, the current and former presence of belowground hydraulic lifts represents a recognized environmental condition.

### 7.9 Solid Waste Disposal

No indications of improper disposal of solid waste or burial activities were noted within the scope of this investigation.

### 7.10 Wetlands

A wetlands map for the subject property prepared by the United States Fish and Wildlife Service was reviewed online. No designated wetlands were identified on the subject property. In addition, no natural standing bodies of water or typically hydrophytic vegetation were observed on the subject property during the site reconnaissance.

### 7.11 Septic System with On-Site Drainfield

No evidence of an on-site septic system was observed during the site reconnaissance.

### 7.12 Oil/Water Separator

Sears Automotive Center is reportedly equipped with an oil/water separator, which appears to be connected to a trench drain that runs the length of the repair shop . The separator is reportedly emptied by a third party. No information identifying the specific installation date was available for review, therefore the oil/water separator was presumably installed in 1971 when the automotive center was constructed. Additionally, no information regarding past sampling of the separator was available. Oil/water separators have the potential to act as conduits to the subsurface of properties. Due to the use of the subject property for vehicle repair, the potential use of perchloroethylene (PCE) and trichloroethylene (TCE) by Sears (as identified in regulatory database) in the auto repair operations and the lack of information indicating the length of time the separator has been located onsite, there is a potential that contaminants such as oils or solvents present in the waste stream could impact the soil beneath the property if the separator or associated drain system has become compromised. On this basis, the presence of the clarifier represents a recognized environmental condition.

### 7.0 Site Reconnaissance (continued)

### 7.13 Dry Wells or Injection Wells

No evidence of dry wells or injection wells was observed during the site reconnaissance.

### 7.14 Contamination of Soil

No evidence of contaminated soil or signs indicating previous subsurface investigations were observed on the subject property during the site reconnaissance.

### 7.15 Contamination of Groundwater

As stated in Section 7.14, no evidence of groundwater monitoring wells, groundwater remediation systems or signs indicating the former presence of groundwater monitoring wells were observed on the subject property during the site reconnaissance.

### 7.16 Vapor Intrusion

No evidence of mitigation measures to address vapor intrusion issues were observed on the subject property during the site reconnaissance.

### 7.17 Use of Pesticides on Site

No evidence of pesticide storage and/or use was observed on the subject property during the site reconnaissance.

### 7.18 Other Concerns

### 7.18.1 Asbestos

A visual screening for suspect asbestos-containing materials was conducted at the time of the site reconnaissance. The subject property facility was constructed between 1960 and 1965. As such, the potential for the presence of asbestos-containing materials exists. All suspect ACMs were observed in good condition and are not expected to pose a health and safety concern to the occupants of the subject property at this time. In the event that building renovation or demolition activities are planned, an asbestos survey adhering to Asbestos Hazard Emergency Response Act (AHERA) sampling protocol should be performed prior to demolition or renovation activities that may disturb suspect ACMs.

### 7.18.2 Lead

A visual screening for lead-based paint was conducted at the time of the site reconnaissance. Based on the 1960-1965 construction date of the subject property building, the potential for lead-based paint exists. All observed painted surfaces were in good condition and are not expected to pose a health and safety concern to the occupants of the subject property at this time. Local regulations may apply to lead-based paint in association with building demolition/renovations and worker/occupant protection. Actual material samples would need to be collected or an XRF survey performed in order to determine if LBP is present. It should be noted that construction activities that disturb materials or paints containing any amount of lead may be subject to certain requirements of the OSHA lead standard contained in 29 CFR 1910.1025 and 1926.62.

### 7.18.3 Radon

The EPA has designated three zones of classification indicating the predicted average indoor screening level of radon per county. Marin County, California is classified in Zone 3 (low potential), which indicates a predicted level less than 2 picoCuries per liter of air ( $\mathrm{pCi} / \mathrm{L}$ ). The EPA "Action Level" is $4 \mathrm{pCi} / \mathrm{L}$. Based on the commercial nature of the property and the lack of subsurface areas, radon does not appear to be a concern. However, testing is required to determine site-specific radon levels.

### 7.0 Site Reconnaissance (continued)

### 7.18 Other Concerns (continued)

### 7.18.4 Lead in Drinking Water

Lead containing materials were banned from use in public water systems, including plumbing connection, in 1986. Potable water testing and assessment was not performed on the subject property. Based on the construction date, the potential for lead in drinking water exists, however as the property is not a residential building or day care facility, potable water testing and assessment was not performed.

### 7.18.5 Mold

No mold was observed during the onsite reconnaissance.

### 7.18.6 All Other Concerns

No other areas of environmental concern were noted within the scope of this investigation.

### 8.0 Interviews

### 8.1 Interview with Owner

A representative of the subject property owner, Mr. Scott Kingsmore, of Macerich was not aware of any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the subject property; any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the subject property; or any notices from a governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products.

### 8.2 Interview with Site Manager

The key site manager, Mr. Joey Elliot of Macerich, was not aware of any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the subject property; any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the subject property; or any notices from a governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products.

### 8.3 Interview with Occupants

A representative of the subject property occupants was identified as Mr. Elliot. Results of the interview with Mr. Elliot are included in Section 8.2.

### 8.4 Interview with State Government Officials

On July 14, 2009, the Regional Water Quality Control Board (RWQCB) was contacted to review files on the subject property and nearby sites of concern. Files at the RWQCB may contain information regarding unauthorized releases of petroleum hydrocarbons or other contaminants that may affect the soil or groundwater in the area.

No information indicating current or prior use or storage of hazardous materials, or the existence of AULs was on file for the subject property with the RWQCB.

### 8.5 Interview with Local Government Officials

## Health Department

On July 14, 2009, the Marin County Environmental Health Department (MCEHD) was visited to review files on the subject property and nearby sites of concern. Files at the MCEHD may contain information regarding hazardous materials storage, as well as information regarding unauthorized releases of petroleum hydrocarbons or other contaminants that may affect the soil or groundwater in the area.

According to 2001 and 2002 Hazardous Materials Business Plans (HMBPs) on file with the MCEHD, Sears, Roebuck and Co. stored five gallons of gasoline, 1,225 pounds of lead acid batteries and 220 cubic feet of helium within the Sears Automotive Center. Jiffy Lube also occupied a portion of the Sears Automotive Center and in 2006 stored 1,500 gallons of waste oil, 110 gallons, of waste oil filters, 50 gallons of antifreeze, 50 pounds of Freon R-12, 60 gallons of Freon R134, 240 gallons of waste antifreeze, and 600 gallons of waste oil. The most recent HMBP (2009) on file with the MCEHD for Sears Automotive Center indicates that 250 gallons of waste oil, 110 gallons of waste latex paint, 250 gallons of antifreeze, 95 gallons of absorbent materials, 20 gallons of used brake fluid, 3,000 pounds of used lead acid batteries, 60 gallons of aqueous parts washer, 500 gallons of oil/water separator waste, 110 gallons of used waste oil filters, 300 gallons of motor oil, 220 cubic feet of helium, 55 gallons of floor degreaser, and 55 gallons of waste oil-based paint. These materials were stored in the automotive center portion of the subject property. Several Notices of Violation were issued to the site regarding the improper labeling and record keeping of hazardous materials, and paperwork regarding annual HMBP filing. Please refer to Section 7.12 for further information regarding the environmental concerns associated with the oil/water separator. Based on the lack of documented releases and the relatively good housekeeping practices observed during the onsite reconnaissance, the remaining hazardous materials are not expected to represent a significant environmental concern.

According to a SRFD letter on file with the MCEHD, eight underground storage tanks (USTs) that were associated with the onsite Sears Automotive Center were removed from the subject property in 1985 and 1987 while fuel island dispensers and products lines were removed from the site in 1994 and 34 cubic yards of soil was removed from the site in 1995, no case closure letter or documentation regarding the analytical data associated with the UST removals was on file with the MCEHD. According to the 1999 SRFD letter, further

### 8.0 Interviews (continued)

soil borings and groundwater samples were needed at the site to sample for MtBE prior to site closure. No information regarding the testing of the site for MtBE was provided to AEI. Please refer to Section 4.2 for further information regarding the former USTs.

Additional records on file with the MCEHD indicated that 8108 Northgate Mall was occupied by a "service operations building" from at least December 2002 to December 2006, where 60 gallons of gasoline were stored. Please refer to Section 6.0 for further information regarding the hazardous materials associated with the 8108 Northgate Mall address.

Rite Aid/Payless Drug were also identified as having photo developing activities and associated hazardous materials onsite beginning in January 1997; however, the Rite Aid digitalized the photo developing process in November 2008 and all hazardous materials were removed from the site. Based on the lack of documented releases and the small size of operations, these hazardous materials are not expected to represent a significant environmental concern.

## Fire Department

On July 14, 2009, the San Rafael Fire Department (SRFD) was visited]for information on the subject property and/or nearby sites of concern to identify any evidence of previous or current hazardous material usage.

According to records on file with the SRFD, hazardous materials have been stored on the subject property; however, specific materials and quantities were not identified. AEI was referred to the MCEHD for information regarding hazardous materials on the subject property.

### 8.6 Interview with Others

No others were interviewed during the site reconnaissance.

August 12, 2008

Mr. T.K. Kim
Macerich
401 Wilshire Boulevard
Santa Monica, CA 90401

## RE: LIMITED XRF PAINT SAMPLING - NORTHGATE MALL 5800 NORTHGATE MALL <br> SAN RAFAEL, CA 94903 <br> ATC PROJECT 75.22103.0001

Dear Mr. Kim:
At the request of Macerich, ATC Associates Inc. (ATC) performed limited X-Ray Fluorescence (XRF) Paint sampling at the Northgate Mall located at 5800 Northgate Mall in San Rafael, California (herein referred to as the "site") on August 7 and 8, 2008. The purpose of this sampling was to identify lead based paints (LBP) at the site prior to disturbance by a planned renovation project. LBP is defined as any paint or coating containing greater than one milligram per centimeter squared ( $>1.0 \mathrm{mg} / \mathrm{cm}^{2}$ ) lead. The sampling was limited to painted surfaces that Macerich requested ATC to sample. Mr. Paul Lowe, California Department of Public Health (DPH) Certified Lead Inspector/Assessor \#14752 performed the survey.

## I. LEAD PAINT SAMPLING AND ANALYSIS

A total of forty-eight (48) XRF samples of suspect LBP and fourteen (14) calibration samples were collected at the site on August 7 and 8, 2008. The XRF sample results are included as Attachment A. The sampling identified the following LBP at the site:

| IDENTIFIED LBP <br> NORTHGATE MALL |  |  |
| :---: | :---: | :---: |
| 5800 NORTHGATE MALL, SAN RAFAEL, CA 94903 |  |  |
| AUGUST 7 and 8, 2008 |  |  |

The sampling was limited to painted surfaces that Macerich requested ATC to sample. Additional LBP may be present at the site and the conditions of the identified LBP may differ in areas not sampled by ATC. If the scope of the planned renovation changes or if additional suspect materials are identified, additional sampling may be required prior to disturbance.

## II. CONCLUSIONS

ATC performed limited LBP sampling at the site on August 7 and 8, 2008. The sampling identified LBP at the site. Disturbance of LBP is regulated by the DPH and the California Department of Occupational Safety and Health (DOSH). As such the planned renovation activities at the site may require DPH Certified workers using special work practices as prescribed by DPH and DOSH.

Thank you for allowing ATC to assist Macerich with this project. If you have any questions regarding this report or require additional environmental consulting services, please do not hesitate to contact our office at (925) 460-5300.

Respectfully submitted,
ATC Associates Inc.


Paul Lowe, DPH\# 14752
Project Manager


Eloy F. Cisneros, DPH\# 7353
Branch Manager

Attachments: A - XRF Sample Results
B - ATC Certifications

## ATTACHMENT A:

XRF SAMPLE RESULTS

NORTHGATE MALL

## SAN RAFAEL, CALIFORNIA

XRF PAINT SAMPLE RESULTS

| Reading No | Date | Type | Component | Substrate | Condition | Color | Floor | Location | Lead Based Paint (yes/no) | $\begin{array}{\|c\|} \hline \text { Lead } \\ \text { Concentration } \\ \left(\mathrm{mg} / \mathrm{cm}^{2}\right) \\ \hline \end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 8/7/2008 | SHUTTER_CAL | NA | NA | NA | NA | NA | NA | NA | 5.53 |
| 2 | 8/7/2008 | CALIBRATION | LEVEL III | NA | NA | NA | NA | NA | NA | 1.1 |
| 3 | 8/7/2008 | CALIBRATION | LEVEL III | NA | NA | NA | NA | NA | NA | 1.1 |
| 4 | 8/7/2008 | CALIBRATION | LEVEL III | NA | NA | NA | NA | NA | NA | 1.1 |
| 5 | 8/7/2008 | PAINT | COLUMN | METAL | FAIR | RED | FIRST | ROW 7-A | YES | 9.1 |
| 6 | 8/7/2008 | PAINT | COLUMN | METAL | FAIR | RED | FIRST | ROW 7-B | YES | 4.3 |
| 7 | 8/7/2008 | PAINT | COLUMN | METAL | FAIR | RED | FIRST | ROW 7-D | YES | 7.1 |
| 8 | 8/7/2008 | PAINT | COLUMN | METAL | FAIR | RED | FIRST | ROW 7-E | YES | 4.4 |
| 9 | 8/7/2008 | PAINT | COLUMN | METAL | FAIR | RED | FIRST | ROW 7-F | YES | 8.3 |
| 10 | 8/7/2008 | PAINT | COLUMN | METAL | FAIR | RED | FIRST | ROW 7-H | YES | 5.7 |
| 11 | 8/7/2008 | PAINT | COLUMN | METAL | FAIR | RED | FIRST | ROW 7-J | YES | 7.2 |
| 12 | 8/7/2008 | PAINT | COLUMN | METAL | FAIR | RED | FIRST | ROW 7-L | YES | 4.4 |
| 13 | 8/7/2008 | PAINT | COLUMN | METAL | FAIR | RED | FIRST | ROW 7-M | YES | 4.3 |
| 14 | 8/7/2008 | PAINT | COLUMN - ROUND | METAL | FAIR | RED | FIRST | ROW N | NO | 0.01 |
| 15 | 8/7/2008 | PAINT | COLUMN - ROUND | METAL | FAIR | RED | FIRST | ROW N | NO | 0 |
| 16 | 8/7/2008 | PAINT | COLUMN - ROUND | METAL | FAIR | RED | FIRST | ROW N | NO | 0.01 |
| 17 | 8/7/2008 | PAINT | COLUMN - ROUND | METAL | FAIR | RED | FIRST | ROW P | NO | 0 |
| 18 | 8/7/2008 | PAINT | COLUMN - ROUND | METAL | FAIR | RED | FIRST | ROW P | NO | 0 |
| 19 | 8/7/2008 | PAINT | COLUMN - ROUND | METAL | FAIR | RED | FIRST | ROW P | NO | 0 |
| 20 | 8/7/2008 | PAINT | COLUMN - ROUND | METAL | FAIR | RED | FIRST | ROW 6-M | NO | 0 |
| 21 | 8/7/2008 | PAINT | COLUMN - ROUND | METAL | FAIR | RED | FIRST | ROW 6-K | NO | 0.01 |
| 22 | 8/7/2008 | PAINT | COLUMN - ROUND | METAL | FAIR | RED | FIRST | ROW 6-G | NO | 0 |
| 23 | 8/7/2008 | PAINT | COLUMN - ROUND | METAL | FAIR | RED | FIRST | ROW 6-E | NO | 0 |
| 24 | 8/7/2008 | PAINT | COLUMN - ROUND | METAL | FAIR | RED | FIRST | ROW 6-C | NO | 0 |
| 25 | 8/7/2008 | CALIBRATION | LEVEL III | NA | NA | NA | NA | NA | NA | 1.1 |
| 26 | 8/7/2008 | CALIBRATION | LEVEL III | NA | NA | NA | NA | NA | NA | 1.1 |
| 27 | 8/7/2008 | CALIBRATION | LEVEL III | NA | NA | NA | NA | NA | NA | 1.1 |
| 28 | 8/8/2008 | SHUTTER_CAL | NA | NA | NA | NA | NA | NA | NA | 5.92 |
| 29 | 8/8/2008 | CALIBRATION | LEVEL III | NA | NA | NA | NA | NA | NA | 1.1 |
| 30 | 8/8/2008 | CALIBRATION | LEVEL III | NA | NA | NA | NA | NA | NA | 1.1 |
| 31 | 8/8/2008 | CALIBRATION | LEVEL III | NA | NA | NA | NA | NA | NA | 1.1 |
| 32 | 8/8/2008 | PAINT | COLUMN | METAL | FAIR | RED | UPPER CATWALK | NORTH | YES | 6.9 |
| 33 | 8/8/2008 | PAINT | COLUMN | METAL | FAIR | RED | UPPER CATWALK | NORTH | YES | 4.8 |
| 34 | 8/8/2008 | PAINT | COLUMN | METAL | FAIR | RED | UPPER CATWALK | NORTH | YES | 4.4 |

NORTHGATE MALL

## SAN RAFAEL, CALIFORNIA

XRF PAINT SAMPLE RESULTS

| Reading No | Date | Type | Component | Substrate | Condition | Color | Floor | Location | Lead Based Paint (yes/no) | Lead <br> Concentration ( $\mathrm{mg} / \mathrm{cm}^{2}$ ) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 35 | 8/8/2008 | PAINT | COLUMN | METAL | FAIR | RED | UPPER CATWALK | NORTH | YES | 7.7 |
| 36 | 8/8/2008 | PAINT | COLUMN | METAL | FAIR | RED | UPPER CATWALK | NORTH | YES | 9.2 |
| 37 | 8/8/2008 | PAINT | COLUMN | METAL | FAIR | RED | UPPER CATWALK | NORTH | YES | 9.4 |
| 38 | 8/8/2008 | PAINT | COLUMN | METAL | FAIR | RED | UPPER CATWALK | NORTH | YES | 7.7 |
| 39 | 8/8/2008 | PAINT | COLUMN | METAL | FAIR | RED | UPPER CATWALK | NORTH | YES | 4.6 |
| 40 | 8/8/2008 | PAINT | BEAM | METAL | FAIR | RED | UPPER CATWALK | NORTH | YES | 6.6 |
| 41 | 8/8/2008 | PAINT | BEAM | METAL | FAIR | RED | UPPER CATWALK | NORTH | YES | 11.2 |
| 42 | 8/8/2008 | PAINT | BEAM | METAL | FAIR | RED | UPPER CATWALK | NORTH | YES | 6.4 |
| 43 | 8/8/2008 | PAINT | COLUMN | METAL | FAIR | RED | UPPER CATWALK | MID MALL | YES | 6.3 |
| 44 | 8/8/2008 | PAINT | COLUMN | METAL | FAIR | RED | UPPER CATWALK | MID MALL | YES | 4.4 |
| 45 | 8/8/2008 | PAINT | COLUMN | METAL | FAIR | RED | UPPER CATWALK | MID MALL | YES | 2.6 |
| 46 | 8/8/2008 | PAINT | COLUMN | METAL | FAIR | RED | UPPER CATWALK | MID MALL | YES | 8.7 |
| 47 | 8/8/2008 | PAINT | COLUMN | METAL | FAIR | RED | UPPER CATWALK | MID MALL | YES | 4.6 |
| 48 | 8/8/2008 | PAINT | BEAM | METAL | FAIR | RED | UPPER CATWALK | MID MALL | YES | 4.4 |
| 49 | 8/8/2008 | PAINT | BEAM | METAL | FAIR | RED | UPPER CATWALK | MID MALL | YES | 9 |
| 50 | 8/8/2008 | PAINT | BEAM | METAL | FAIR | RED | UPPER CATWALK | MID MALL | YES | 8.8 |
| 51 | 8/8/2008 | PAINT | BEAM | METAL | FAIR | RED | UPPER CATWALK | MID MALL | YES | 1.9 |
| 52 | 8/8/2008 | PAINT | BEAM | METAL | FAIR | RED | UPPER CATWALK | MID MALL | YES | 4.2 |
| 53 | 8/8/2008 | PAINT | BEAM | METAL | FAIR | RED | UPPER CATWALK | MID MALL | YES | 22.3 |
| 54 | 8/8/2008 | PAINT | COLUMN | METAL | FAIR | RED | UPPER CATWALK | SOUTHEAST | YES | 6.1 |
| 55 | 8/8/2008 | PAINT | COLUMN | METAL | FAIR | RED | UPPER CATWALK | SOUTHEAST | YES | 10 |
| 56 | 8/8/2008 | PAINT | COLUMN | METAL | FAIR | RED | UPPER CATWALK | SOUTHEAST | YES | 4.5 |
| 57 | 8/8/2008 | PAINT | BEAM | METAL | FAIR | RED | UPPER CATWALK | SOUTHEAST | YES | 14 |
| 58 | 8/8/2008 | PAINT | BEAM | METAL | FAIR | RED | UPPER CATWALK | SOUTHEAST | YES | 18.1 |
| 59 | 8/8/2008 | PAINT | BEAM | METAL | FAIR | RED | UPPER CATWALK | SOUTHEAST | YES | 3.8 |
| 60 | 8/8/2008 | CALIBRATION | LEVEL III | NA | NA | NA | NA | NA | NA | 1.1 |
| 61 | 8/8/2008 | CALIBRATION | LEVEL III | NA | NA | NA | NA | NA | NA | 1.1 |
| 62 | 8/8/2008 | CALIBRATION | LEVEL III | NA | NA | NA | NA | NA | NA | 1.1 |

Page 2 of 2

ATTACHMENT B: ATC CERTIFICATIONS

BY:......................

Mr. Paul A. Lowe
ATC Associates, Inc.
6602 Owens Drive, Suite 100
Pleasanton, California 94588


Mr. Eloy F. Cisneros

6602 Owens Drive, Suite 100
Pleasanton, California 94588

State of California Department of Public Health


## Sigma Engineering, Inc.

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- South: 17139 Bellflower Boulevard, Suite 201 • Bellflower, CA $90706 \cdot$ Phone (562) 804-7252 • Fax (562) 804-7255 •

October 20, 2009

Mr. Aladdin Ghafari
Macerich Management Company
401 Wilshire Boulevard, Suite 700
Santa Monica, California 90401

## Re: Phase II Environmental Site Assessment Recommendations <br> Sears Automotive Center, Northgate Mall <br> 9000 Northgate Mall <br> San Rafael, CA 94903

Dear Mr. Ghafari:

Sigma Engineering, Inc. (SEI) is pleased to submit this letter detailing recommendations regarding the October, 2009 Phase II Environmental Site Assessment (ESA) performed at the Sears Automotive Center in San Rafael, California. This investigation was conducted on two suspect areas of the existing Sears Automotive Center located at the Northgate Mall in San Rafael, California (Site), the former fueling area, and the existing auto repair shop. Based on the findings of the investigation, as detailed in SEI's October, 2009 Phase II Environmental Site Assessment Report, SEI has the following recommendations:

## Existing Auto Service Area

SEI recommends that proper procedures be followed with regard to the clarifier and trench drain system. Some $\mathrm{oil} /$ sheen and surface staining was noted in and around the various drain features. If future remodeling/soil disturbance of this area is planned, SEI recommends that an observer be onsite to screen the exposed soil with a PID. Any soil with staining or elevated PID readings should be segregated and properly tested to determine appropriate handling procedures.

## Former UST Area

SEI recommends that the wells be checked and sampled in approximately 4 or 5 months. If the wells remain dry during the course of this year's rainy season, then SEI recommends that they be properly abandoned. Note that DWR188 forms should be completed within 60 days of all well installation/abandonment.

Prior to well abandonment, a request for case closure should be presented to the lead agency, the San Rafael Fire Department (SRFD), under separate cover.

Be advised that the SRFD may require additional soil sampling/well installation with alternative drilling technology (i.e. hollow stem auger) in the area of the former USTs in order to get through the hardpan soil conditions and collect water samples/install monitoring wells. If additional wells are required by the SRFD, then the wellheads of all wells should all be surveyed so that a gradient can be determined. If the wells are not required by the SRFD, then such survey costs can be avoided.

Macerich Management Company
Sears Automotive Center, Northgate Mall
SEI Project No. 098275
Page 2 of 2
In addition, SEI recommends that the drummed soil cuttings be scheduled for proper disposal as soon as possible.
Please contact this office if you have any questions regarding the information contained in this report.
Respectfully Submitted:

## Sigma Engineering, Inc.



Keith G. Farrell, CEG No. 1314 Senior Engineering Geologist


Elizabeth Zernik, REA
Project Environmental Scientist

## PHASE II ENVIRONMENTAL SITE ASSESSMENT REPORT

at:
Sears Automotive Center
Northgate Mall
9000 Northgate Mall
San Rafael, CA 94903
prepared by:
Sigma Engineering, Inc.
2101 Auto Center Drive, \#150
Oxnard, CA 93036
Project No. 098275


Keith Farrell
State of California Certified Engineering Geologist \#1314


Elizabeth Zernik, REA
Project Scientist

20 October, 2009

# PHASE II ENVIRONMENTAL SITE ASSESSMENT REPORT <br> SEARS AUTOMOTIVE CENTER NORTHGATE MALL 9000 NORTHGATE MALL SAN RAFAEL, CA 94903 

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Appendix A: Figures 1 and 2
Appendix B: Analytical Results \& Chain-of-Custody Documentation
Appendix C: Boring Logs

### 1.0 INTRODUCTION

Sigma Engineering, Inc. (SEI) is pleased to submit this Phase II Environmental Site Assessment (ESA) report of the Sears Automotive Center in San Rafael, California. This investigation was conducted on two suspect areas of the existing Sears Automotive Center located at the Northgate Mall in San Rafael, California (Site). The Site Location is shown on Figure 1, and the Site layout and boring locations are shown on Figure 2 in Appendix A.

The purpose of this Phase II ESA was to conduct subsurface sampling and testing in the following two areas at the Site:

1. Former fueling area (former tanks and pump islands) and,
2. Existing Auto Repair Shop, including hydraulic lifts, trench drain and 3-stage clarifier.

The work at the former fueling area included subsurface sampling and testing to respond to past fire department requests for additional site assessment in an attempt to achieve site closure. There is an unresolved November 16, 1999 directive from the City of San Rafael Fire Department, to collect soil and water samples and test for MTBE as a requirement for case closure. The work at the existing auto repair shop area was conducted to assess if the subsurface has been impacted by historical auto repair shop operations.

## $2.0 \quad$ BACKGROUND

In August 2009, the lender commissioned a Phase I ESA, which was completed by AEI Consultants dated August 6, 2009, for the entire mall. This Phase I ESA identified the following recognized environmental conditions (RECs) at the Sears Automotive Center:

- "The subject property Sears Automotive Center is currently equipped with 14 belowground hydraulic lifts and was formerly equipped with an additional three belowground hydraulic lifts. No information identifying the specific installation date was available for review, therefore these lifts were presumably installed in 1971 when the automotive center was constructed and based on the pre-1977 installation of the lifts, the potential exists that the hydraulic fluid within the lift systems previously contained polychlorinated biphenyls (PCBs). In 1996, three lifts were removed from the subject property and the soil was found to contain up to 11,000 parts per million ( ppm ) Total Petroleum Hydrocarbons as hydraulic oil (TPH-h) as well as polychlorinated biphenyls (PCBs) at 0.48 ppm . Groundwater was not encountered to seven feet bgs (soil boring maximum depth) and therefore no groundwater samples were collected. Additional soil was excavated to remove the contaminated soil; however, no confirmation sampling was performed. Due to the age of the equipment, the integrity of the current hydraulic lifts is unknown; however, as contamination was discovered in relation to the removed lifts the potential exists that the current lifts may have also leaked. In addition, due to the shallow depth to groundwater at the property, the potential exists that groundwater could be impacted by such a release. Therefore, based on the presence of the hydraulic lifts and the unknown concentrations of contamination remaining in the soil surrounding the removed lifts, the current and former presence of belowground hydraulic lifts represents a recognized environmental condition.
- Sears Automotive Center is reportedly equipped with an oil/water separator, which appears to be connected to a trench drain that runs the length of the repair shop. The separator is reportedly emptied by a third party. No information identifying the specific installation date was available for review, therefore the oil/water separator was presumably installed in 1971 when the automotive center was constructed. Additionally, no information regarding past sampling of the separator was available. Oil/water separators have the potential to act as conduits to the subsurface of properties. Due to the use of the subject property
for vehicle repair, the potential use of perchloroethylene (PCE) and trichloroethylene (TCE) by Sears (as identified in regulatory database) in the auto repair operations and the lack of information indicating the length of time the separator has been located onsite, there is a potential that contaminants such as oils or solvents present in the waste stream could impact the soil beneath the property if the separator or associated drain system has become compromised. On this basis, the presence of the clarifier represents a recognized environmental condition.
- According to historical sources, it appears the subject property was developed with a gas station and automotive center in 1971/1972. According to a November 1999 San Rafael Fire Department (SRFD) letter to Sears, Roebuck and Co, up to eight gasoline, waste oil and/or new oil underground storage tanks (USTs) were associated with the onsite Sears Automotive Center and were reportedly removed from the subject property in 1985 and 1987 while fuel island dispensers and products lines were removed from the site in 1994. However, a Marin County Environmental Health Department (MCEHD) UST removal application and a UST removal invoice provided by the client only identified the removal of four USTs and it is therefore unclear if USTs remain on the subject property. In a March 1987 "Clearance" letter to Sears, Roebuck Co., the MCEHD indicated that the "analysis of samples of the soil and groundwater at the above site indicated a safe level or absence of any residual of the product formerly stored in underground storage tanks" at the subject property; however, it is unknown whether any residual contamination remains at the subject property and according to the 1999 SRFD letter, further soil borings and groundwater samples were needed at the site to sample for Methyl tert-Butyl Ether (MtBE) prior to site closure per the Regional Water Quality Control Board (RWQCB). No information regarding the testing of the site for MtBE was provided to AEI or available at the MCEHD, SRFD or RWQCB. While a 1987 "Clearance" letter does exist for the property, based on the lack of sampling data associated with the removal of the USTs, the lack of MtBE sampling; and the lack of removal documentation available for the USTs, it is unknown whether any contamination or USTs remain at the subject property and therefore the USTs represent a significant environmental concern."

Based on the Phase I findings, the lender required the owner to perform a subsurface investigation around the former USTs and around the existing auto repair shop features, as detailed below. The following scope of work, dated September 28, 2009, was approved by the lender and Sears:

- Review available utility drawings, contact Underground Services Alert, and perform a Geophysical Survey to attempt to locate previous USTs that may still be present at the Site, and to clear the boring locations for utilities.
- Advance a total of eight (8) Geoprobe borings, (seven between the seven pairs of hydraulic lifts that are currently present and one at the location of the two former hydraulic lifts where elevated concentrations of total petroleum hydrocarbons (TPH) as hydraulic oil (TPH-h) were detected and no confirmation soil sampling was performed after impacted soil was removed). These borings will be placed between the hydraulic lifts and the existing trench drain and oil water separator, to address these areas as well. Two saturated soil or grab water samples will be collected from the two borings closest to the oil water separator. The borings will be advanced to 10 feet below ground surface (bgs), and soil samples will be collected at 10 feet bgs and analyzed for EPA Method 8015 (carbon chain) for total petroleum hydrocarbons and aromatic volatile organic compounds and oxygenates by Method 8260B. If elevated concentrations of TPH-h are present analyze the samples for polychlorinated biphenyls (PCBs).
- Advance four (4) Geoprobe borings to 20 feet bgs, two up gradient and two down gradient of the former fueling area, where two fuel USTs have been removed and the likely location of other USTs that may still be present. Collect soil samples at 10,15 , and 20 feet bgs and convert the borings to monitoring wells (depth to groundwater is estimated to be approximately 12 feet bgs). After developing the wells, collect a groundwater
sample from each. The soil and groundwater samples will be tested in accordance with the Regional Water Quality Control Board criteria, using EPA Method 8015 (carbon chain) for total petroleum hydrocarbons and aromatic volatile organic compounds and oxygenates by Method 8260B. The soil in each sampling tube will be sub-sampled using Method 5035 for preservation.
- Borehole locations will be patched with either concrete or asphalt to match the surrounding pavement.
- Investigation derived waste (will be limited to groundwater, since soil cuttings are not generated with a Geoprobe rig) will be temporarily stored in Department of Transportation approved 55-gallon drums, prior to proper off-site disposal. SEI will coordinate with local Sear's representatives to assess the best area to temporarily store these drums.
- SEI will make efforts to minimize the impact of this investigation on the operation of this facility. The Geoprobe will consist of a pick-up truck mounted rig, and will only take up a small area of the facility. SEI will coordinate with the local Sear's representatives to schedule the interior borings to a time of day that is convenient.
- Prepare a report containing SEI's findings and recommendations.

Upon review of the site layout, it was determined that the oil/water separator was located outside of the building, in contrast to the Phase I assertion, that it was located within the building.

### 3.0 FIELD SUMMARY

Underground Service Alert (USA) was contacted to locate utilities in the area of the borings, as required. A sitespecific health and safety plan was prepared and reviewed by personnel for the work at the Site. On September 29,2009 , SEI personnel were on site to oversee a geophysical survey and review site conditions and markings by USA. In addition, SEI met with Sears personnel to coordinate field work and minimize disturbance to ongoing operations. Boring locations were cleared, both inside and outside the building, and the Site was surveyed for indications of USTs and underground utilities. B1 and B2 were cleared for placement around the outside clarifier, and B3 through B8 were cleared for interior boring locations. No indications of USTs remaining in the ground were identified in the area surveyed, which was based on the north site of the building.

On October 5 and 6, 2009, SEI personnel returned to the Site to conduct the investigation. SEI oversaw Vironex Drilling, as they advanced eight (8) borings, and attempted four (4) monitoring wells (see Figure 2). All fieldwork was conducted under the direct supervision of a California Professional Geologist. As stated previously, there were two main areas of investigation:

Existing Auto Repair Shop, including hydraulic lifts, trench drain and 3-stage clarifier -

- Borings B1 and B2 were advanced at the northeast and southwest corners of the clarifier located near the exterior northwest corner of the building, to collect a 10 foot below ground surface (bgs) soil sample and a saturated soil sample. In B1, a saturated soil sample was collected at 22 feet bgs. In B2, auger refusal was encountered at 23 feet bgs, and no groundwater or saturated soil was encountered. The last sample collected in B2 was dry at 23 feet bgs. Samples were analyzed for EPA Method 8015 (carbon chain) for total petroleum hydrocarbons and aromatic volatile organic compounds and oxygenates by Method 8260B. If elevated concentrations of TPH-h were detected, the lab was directed to analyze the samples for polychlorinated biphenyls (PCBs).
- Borings B3 through B8 were advanced along the north and south sides of the interior trench drain, between the drain and the hydraulic lifts, with their locations adjusted due to the exterior location of the clarifier. B4, B6, and B8 were on the south side of the trench, and B3, B5, and B7 were on the north side of the trench. Based on site reconnaissance and site personnel knowledge, at least 3 sub-drains were noted along the center trench drain, presumably leading to the north and connecting to the 3 -stage clarifier outside near the northwest corner of the building. Based on this information, hand augering was conducted in B3, B5, and B7 to approximately 2 and $1 / 2$ feet bgs to be clear of any sub-drain lines. No lines were encountered; however, elevated Photo Ionization Detector (PID) readings (maximum 200 parts per million in B7-10') and areas of discoloration were noted in these northerly borings. Samples were analyzed for EPA Method 8015 (carbon chain) for total petroleum hydrocarbons and aromatic volatile organic compounds and oxygenates by Method 8260B. If elevated concentrations of TPH-h were detected, the lab was directed to analyze the samples for PCBs.

Former UST area-

- Monitoring wells were proposed in the former UST/dispenser island area. During drilling and soil sampling of MW4 and MW3 (the two monitoring wells proposed to the north of the former UST/dispenser island area) no groundwater was encountered, and auger refusal was encountered at 18.5 feet bgs and 16 feet bgs, respectively. Wells were installed in both of these locations, in the event of seasonal fluctuations in the groundwater table. During drilling and sampling of MW-2, no groundwater was encountered and auger refusal was encountered at 17 feet bgs. No well was set in this location; instead, a Hydropunch sample was attempted in lieu of MW1, midway between the proposed location of MW1 and MW2 (the two monitoring wells proposed to the south of the former UST/dispenser island area), in an attempt to collect a water sample. Since the Hydropunch has a smaller diameter rod, it was conjectured that this tool might be able to collect a water sample where the larger diameter well installation equipment was encountering auger refusal. Hydropunch auger refusal was encountered at 15 feet bgs, with no groundwater encountered and no sample collected.
- An attempt was made to develop MW4 and collect a groundwater sample; however, minimal water was present in the well ( $<1$ inch), and no water sample was recoverable in the bailer. In addition, MW3 was measured with a water level indicator and no water was detected in the well. The soil samples (depths of 10 and 15 feet bgs for MW3 and MW4, respectively), from these wells were tested in accordance with the Regional Water Quality Control Board criteria, using EPA Method 8015 (carbon chain) for total petroleum hydrocarbons and aromatic volatile organic compounds and oxygenates by Method 8260B. The soil in each sampling tube was sub-sampled using Method 5035 for preservation.

The borings were advanced to depths ranging from 10 feet below ground surface (bgs) to 23 feet bgs using a Geoprobe 6600 direct push rig with continuous core sampling mechanism. Samples were collected at approximate 5 -foot intervals. The sample sleeves were covered with Teflon, capped with plastic caps, labeled, and placed in an insulated ice chest containing ice. Only new core samplers were used at each sample location.

All soil borings and the Hydropunch location were backfilled to 4 inches below ground surface with cement/bentonite grout and capped with concrete colored to match. Monitoring wells were installed as shown on the attached well completion diagrams/boring logs, using pre-fabricated screen and seal materials (Appendix C). Investigation derived waste was collected in a steel 55 -gallon drum, pending laboratory analysis. SEI coordinated its location with Sears personnel and walked boring and monitoring well locations to confirm their condition prior to departure.

### 4.0 SITE GEOLOGIC/HYDROGEOLOGIC CONDITIONS

The site is underlain by shallow alluvium overlying bedrock at depth. The alluvium consists of mixes silt, sand and clay, with layers of tight gravels at depth. The site is located at an elevation of approximately 20 to 30 feet above sea level, and groundwater occurs in the underlying alluvium at varying depths, slightly above sea level, corresponding to a depth of 20 to 25 feet. The historic local surface drainage flowed to the north-northeast past Mt Olivet Cemetery, and then east toward San Francisco Bay.

During the site assessment field work, groundwater was encountered at approximately 22 feet below ground surface (bgs) in B1. No groundwater was encountered in the remainder of the borings advanced. Auger refusal was encountered at varying depths due to tight clayey soil conditions and bay mud or hardpan. See Appendix C for the boring logs/monitoring well completion diagrams. The direction of groundwater flow is anticipated to generally follow the surface topography of the Site vicinity, which trends to the northeast; however, regional variation is expected due to fill and proximity to the San Pablo/San Francisco Bays.

### 5.0 LABORATORY ANALYSIS

All samples were tested in accordance with the Regional Water Quality Control Board criteria, using EPA Method 8015 (carbon chain) for total petroleum hydrocarbons and aromatic volatile organic compounds and oxygenates by Method 8260B. For samples collected around the former USTs, the soil in each sampling tube was sub-sampled using Method 5035 for preservation. All samples were maintained under appropriate preservation conditions and delivered to TestAmerica Laboratories, Inc. (TAL), a California State Certified laboratory located at 1220 Quarry Lane, in Pleasanton, California, under proper chain of custody procedures, for chemical analysis.

### 6.0 ANALYTICAL RESULTS

A total of 24 soil samples were submitted to TAL following proper chain-of-custody procedures. The analytical results are summarized below:

- No MTBE, other fuel oxygenates, or BTEX constituents were detected in any of the samples analyzed;
- No PCE or TCE was detected in any of the samples analyzed;
- No Total Petroleum Hydrocarbons as hydraulic oil (TPH-h) was detected in any of the samples analyzed;
- Where constituents were detected above the laboratory practical quantitation limit (PQL), none were above respective regulatory screening levels, as shown below. See Appendix B, for the complete set of analytical results.


## Table 1

Summary of Chemical Concentrations Detected Above the Laboratory PQL

| Constituent | B1-22 <br> $(\mathrm{ug} / \mathrm{Kg})$ | B2-23 <br> $(\mathrm{ug} / \mathrm{Kg})$ | B3-10 <br> $(\mathrm{ug} / \mathrm{Kg})$ | B8-10 <br> $(\mathrm{ug} / \mathrm{Kg})$ | MW2-15 <br> $(\mathrm{ug} / \mathrm{Kg})$ | MW3-10 <br> $(\mathrm{ug} / \mathrm{Kg})$ | MW3-15 <br> $(\mathrm{ug} / \mathrm{Kg})$ | EPA RSL* <br> $(\mathrm{ug} / \mathrm{Kg})$ | RWQCB SSLs <br> $(\mathrm{mg} / \mathrm{Kg})$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TPH-D** | $\mathbf{3 . 3}$ | $\mathbf{3 5}$ | $<\mathbf{0 . 9 9}$ | $\mathbf{1 . 5}$ | $\mathbf{7 . 8}$ | $\mathbf{2 . 0}$ | $\mathbf{1 5}$ | NE | $10,000 * * *$ |
| Methylene Chloride | $<10$ | $\mathbf{1 6}$ | $<10$ | $<10$ | $<10$ | $<10$ | $<10$ | 11,000 | NE |
| Acetone | $<50$ | $<50$ | $\mathbf{7 3}$ | $<50$ | $<50$ | $<50$ | $<50$ | $61,000,000$ | NE |
| 2-Butanone (MEK) | $<47$ | $<47$ | $<47$ | $\mathbf{5 9}$ | $<47$ | $<47$ | $<47$ | $28,000,000$ | NE |

* Residential Soil, Source: EPA Regional Screening Level, April 2009 Master.
** TPH-D results are expressed in $\mathrm{mg} / \mathrm{Kg}$
*** Diesel in soil any depth above groundwater (non-drinking water) Source: RWQCB March 1996 Guidebook: Petroleum Soil Screening Levels (SSLs)
NE Not Established

Macerich Management Company
Sears Automotive Center, Northgate Mall
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### 7.0 CONCLUSIONS

Based on field observations and laboratory analytical results, it is Sigma's professional opinion that soil in the former UST area has not been significantly impacted. No MTBE was detected in any of the samples analyzed, and no concentrations of hydrocarbons above regulatory screening levels were detected. The tight clayey soil conditions at the Site are not anticipated to be conducive to significant contaminant migration.

In addition, based on laboratory analytical results, the soil in area of the active automotive service area has not been significantly impacted. No TPH-h, PCE, or TCE was detected in the samples analyzed, and no other VOCs above regulatory screening levels were detected. The tight clayey soil conditions at the Site are not anticipated to be conducive to significant contaminant migration.

### 8.0 LIMITATIONS

The statements, conclusions, and recommendations are based on field observations and analytical test results. No review was performed regarding surrounding conditions or on nearby contamination. The conclusions and statements expressed in this summary report are based on observed conditions and are valid relative to those Site conditions and limited knowledge. Future review and interpretations should consider surrounding conditions and regulatory changes that may have been enacted subsequent to the preparation of this summary report.

Appendix A
Figures 1 and 2



## Appendix B

Analytical Results \& Chain-of-Custody Documentation

# ANALYTICAL REPORT 

Job Number: 720-23080-1<br>Job Description: Sears Northgate Mall, San Rafael

For:
Sigma Engineering, Inc.
2101 Auto Center Dr. \#150
Oxnard, CA 93036
Attention: Mr. Chris Wells


Dimple Sharma<br>Project Manager I<br>dimple.sharma@testamericainc.com<br>10/14/2009

CA ELAP Certification \# 2496
The Chain(s) of Custody are included and are an integral part of this report.
The report shall not be reproduced except in full, without the written approval of the laboratory. The client, by accepting this report, also agrees not to alter any reports whether in the hard copy or electronic format and to use reasonable efforts to preserve the reports in the form and substance originally provided by TestAmerica.
A trip blank is required to be provided for volatile analyses. If trip blank results are not included in the report, either the trip blank was not submitted or requested to be analyzed.

## Job Narrative

## 720-J23080-1

## Comments

No additional comments.

## Receipt

All samples were received in good condition within temperature requirements.

## GC/MS VOA

Method(s) 8260B: Surrogate recovery for the following sample(s) was outside the upper control limit: B1-10' (720-23080-1). This sample did not contain any target analytes; therefore, re-analysis was not performed.

Method(s) 8260B: The laboratory control sample (LCS) for preparation batch \#59302 exceeded control limits for the following analytes: 1,2-Dichloroethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260B: The continuing calibration verification (CCV) for 1,1,2,2-Tetrachloroethane and 1,2,3-Trichloropropane recovered above the upper control limit. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method(s) 8260B: Internal standard responses were outside of acceptance limits for the following sample(s): Chlorobenzene-d5 and 1,4-dichlorobenzene-d4 are low. B2-23' (720-23080-6). The sample(s) shows evidence of matrix interference. Sample was re-extracted and re-analyzed and confirmed low internal standards.

Method(s) 8260B: Surrogate recovery for the following sample(s) was outside control limits: B2-23' (720-23080-6). 4-bromofluorobenzene is low. Evidence of matrix interference is present. Re-extraction and/or re-analysis was performed and confirmed.

Method(s) 8260B: Internal standard responses and surrogate were outside of acceptance limits for the following sample(s): MW2-15' (720-23080-14). The sample(s) shows evidence of matrix interference and confirmed by reanalysis.

Method(s) 8260B: The laboratory control sample (LCS) for preparation batch \#59397 exceeded control limits for the following analytes: 12DCA,DBCP,13DCPA, MIBK, MTBE,1122PCA, 2-HEXANONE and 1,3DCPE. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260B: Internal standard responses were outside of acceptance limits for the following sample(s): MW4-10' (720-23080-7), MW3-10' (720-23080-10), MW3-15' (720-23080-11), MW4-15' (720-23080-8). The sample(s) shows evidence of matrix interference and confirmed by reanalysis.

No other analytical or quality issues were noted.

## GC VOA

No analytical or quality issues were noted.

## GC Semi VOA

No analytical or quality issues were noted.

## Organic Prep

No analytical or quality issues were noted.

## EXECUTIVE SUMMARY - Detections

Client: Sigma Engineering, Inc.
Job Number: 720-23080-1

| Lab Sample ID Client Sample ID Analyte | Result / Qualifier | Reporting Limit | Units | Method |
| :---: | :---: | :---: | :---: | :---: |
| 720-23080-4 B1-22' |  |  |  |  |
| Diesel Range Organics [C10-C28] | 3.3 | 1.0 | $\mathrm{mg} / \mathrm{Kg}$ | 8015B |
| 720-23080-6 B2-23' |  |  |  |  |
| Methylene Chloride | 16 | 10 | ug/Kg | 8260B |
| Diesel Range Organics [C10-C28] | 35 | 1.0 | $\mathrm{mg} / \mathrm{Kg}$ | 8015B |
| 720-23080-10 MW3-10' |  |  |  |  |
| Diesel Range Organics [C10-C28] | 2.0 | 0.99 | $\mathrm{mg} / \mathrm{Kg}$ | 8015B |
| 720-23080-11 MW3-15' |  |  |  |  |
| Diesel Range Organics [C10-C28] | 15 | 1.0 | $\mathrm{mg} / \mathrm{Kg}$ | 8015B |
| 720-23080-14 MW2-15' |  |  |  |  |
| Diesel Range Organics [C10-C28] | 7.8 | 0.99 | $\mathrm{mg} / \mathrm{Kg}$ | 8015B |
| 720-23080-17 B3-10' |  |  |  |  |
| Acetone | 73 | 50 | ug/Kg | 8260B |
| 720-23080-24 B8-10' |  |  |  |  |
| 2-Butanone (MEK) | 59 | 47 | ug/Kg | 8260B |
| Diesel Range Organics [C10-C28] | 1.5 | 0.99 | $\mathrm{mg} / \mathrm{Kg}$ | 8015B |

## METHOD SUMMARY

Client: Sigma Engineering, Inc.

| Description | Lab Location | Method | Preparation Method |
| :--- | :--- | :--- | :--- |
| Matrix: $\quad$ Solid |  |  |  |
| Volatile Organic Compounds (GC/MS) | TAL SF | SW846 8260B |  |
| Purge and Trap | TAL SF |  | SW846 5030B |
| Closed System Purge and Trap | TAL SF |  | SW846 5035 |
| Diesel Range Organics (DRO) (GC) | TAL SF | SW846 8015B |  |
| Ultrasonic Extraction | TAL SF |  | SW846 3550B |

## Lab References:

TAL SF = TestAmerica San Francisco

## Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

## SAMPLE SUMMARY

Client: Sigma Engineering, Inc.
Job Number: 720-23080-1

| Lab Sample ID | Client Sample ID | Client Matrix | Date/Time <br> Sampled | Date/Time Received |
| :---: | :---: | :---: | :---: | :---: |
| 720-23080-1 | B1-10' | Solid | 10/05/2009 0715 | 10/06/2009 1834 |
| 720-23080-4 | B1-22' | Solid | 10/05/2009 0000 | 10/06/2009 1834 |
| 720-23080-5 | B2-10' | Solid | 10/05/2009 0000 | 10/06/2009 1834 |
| 720-23080-6 | B2-23' | Solid | 10/05/2009 0000 | 10/06/2009 1834 |
| 720-23080-7 | MW4-10' | Solid | 10/05/2009 0000 | 10/06/2009 1834 |
| 720-23080-8 | MW4-15' | Solid | 10/05/2009 0000 | 10/06/2009 1834 |
| 720-23080-10 | MW3-10' | Solid | 10/05/2009 1430 | 10/06/2009 1834 |
| 720-23080-11 | MW3-15' | Solid | 10/05/2009 0000 | 10/06/2009 1834 |
| 720-23080-13 | MW2-10' | Solid | 10/04/2009 1255 | 10/06/2009 1834 |
| 720-23080-14 | MW2-15' | Solid | 10/04/2009 1329 | 10/06/2009 1834 |
| 720-23080-17 | B3-10' | Solid | 10/04/2009 0800 | 10/06/2009 1834 |
| 720-23080-18 | B4-10' | Solid | 10/04/2009 0645 | 10/06/2009 1834 |
| 720-23080-20 | B5-10' | Solid | 10/04/2009 0830 | 10/06/2009 1834 |
| 720-23080-21 | B6-10' | Solid | 10/04/2009 0000 | 10/06/2009 1834 |
| 720-23080-23 | B7-10' | Solid | 10/06/2009 0905 | 10/06/2009 1834 |
| 720-23080-24 | B8-10' | Solid | 10/06/2009 0715 | 10/06/2009 1834 |

Client: Sigma Engineering, Inc.
Job Number: 720-23080-1

## Client Sample ID: B1-10'

| Lab Sample ID: <br> Client Matrix: | 720-23080-1 <br> Solid |  | Date Sampled: 10/05/20 <br> Date Received: $10 / 06$ |  |
| :--- | :--- | :--- | :--- | :--- |
|  | 8260B Volatile Organic Compounds (GC/MS) |  |  |  |

Date Prepared: 10/10/2009 1000

| Analyte | DryWt Corrected: N | Result (ug/Kg) | Qualifier | RL |
| :---: | :---: | :---: | :---: | :---: |
| Methyl tert-butyl ether |  | ND |  | 5.0 |
| Acetone |  | ND |  | 50 |
| Benzene |  | ND |  | 5.0 |
| Dichlorobromomethane |  | ND |  | 5.0 |
| Bromobenzene |  | ND |  | 5.0 |
| Chlorobromomethane |  | ND |  | 20 |
| Bromoform |  | ND |  | 5.0 |
| Bromomethane |  | ND |  | 9.9 |
| 2-Butanone (MEK) |  | ND |  | 50 |
| n-Butylbenzene |  | ND |  | 5.0 |
| sec-Butylbenzene |  | ND |  | 5.0 |
| tert-Butylbenzene |  | ND |  | 5.0 |
| Carbon disulfide |  | ND |  | 5.0 |
| Carbon tetrachloride |  | ND |  | 5.0 |
| Chlorobenzene |  | ND |  | 5.0 |
| Chloroethane |  | ND |  | 9.9 |
| Chloroform |  | ND |  | 5.0 |
| Chloromethane |  | ND |  | 9.9 |
| 2-Chlorotoluene |  | ND |  | 5.0 |
| 4-Chlorotoluene |  | ND |  | 5.0 |
| Chlorodibromomethane |  | ND |  | 5.0 |
| 1,2-Dichlorobenzene |  | ND |  | 5.0 |
| 1,3-Dichlorobenzene |  | ND |  | 5.0 |
| 1,4-Dichlorobenzene |  | ND |  | 5.0 |
| 1,3-Dichloropropane |  | ND |  | 5.0 |
| 1,1-Dichloropropene |  | ND |  | 5.0 |
| 1,2-Dibromo-3-Chloropropane |  | ND |  | 5.0 |
| Ethylene Dibromide |  | ND |  | 5.0 |
| Dibromomethane |  | ND |  | 9.9 |
| Dichlorodifluoromethane |  | ND |  | 9.9 |
| 1,1-Dichloroethane |  | ND |  | 5.0 |
| 1,2-Dichloroethane |  | ND | * | 5.0 |
| 1,1-Dichloroethene |  | ND |  | 5.0 |
| cis-1,2-Dichloroethene |  | ND |  | 5.0 |
| trans-1,2-Dichloroethene |  | ND |  | 5.0 |
| 1,2-Dichloropropane |  | ND |  | 5.0 |
| cis-1,3-Dichloropropene |  | ND |  | 5.0 |
| trans-1,3-Dichloropropene |  | ND |  | 5.0 |
| Ethylbenzene |  | ND |  | 5.0 |
| Hexachlorobutadiene |  | ND |  | 5.0 |
| 2-Hexanone |  | ND |  | 50 |
| Isopropylbenzene |  | ND |  | 5.0 |
| 4-Isopropyltoluene |  | ND |  | 5.0 |
| Methylene Chloride |  | ND |  | 9.9 |
| 4-Methyl-2-pentanone (MIBK) |  | ND |  | 50 |
| Naphthalene |  | ND |  | 9.9 |

Client: Sigma Engineering, Inc.
Job Number: 720-23080-1

Client Sample ID: $\quad$ B1-10'

| Lab Sample ID: <br> Client Matrix: | 720-23080-1 <br> Solid |  | Date Sampled: 10/05 <br> Date Received: $10 / 06 / 20$ |
| :--- | :--- | :--- | :--- | :--- |
|  |  | 8260B Volatile Organic Compounds (GC/MS) |  |

Date Prepared: 10/10/2009 1000

| Analyte DryWt Corrected: N | Result (ug/Kg) | Qualifier | RL | L |
| :---: | :---: | :---: | :---: | :---: |
| N-Propylbenzene | ND |  | 5.0 | 0 |
| Styrene | ND |  | 5.0 | 0 |
| 1,1,1,2-Tetrachloroethane | ND |  | 5.0 | 0 |
| 1,1,2,2-Tetrachloroethane | ND |  | 5.0 | 0 |
| Tetrachloroethene | ND |  | 5.0 | 0 |
| Toluene | ND |  | 5.0 | 0 |
| 1,2,3-Trichlorobenzene | ND |  | 5.0 | 0 |
| 1,2,4-Trichlorobenzene | ND |  | 5.0 | 0 |
| 1,1,1-Trichloroethane | ND |  | 5.0 | 0 |
| 1,1,2-Trichloroethane | ND |  | 5.0 | 0 |
| Trichloroethene | ND |  | 5.0 | 0 |
| Trichlorofluoromethane | ND |  | 5.0 | 0 |
| 1,2,3-Trichloropropane | ND |  | 5.0 | 0 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND |  | 5.0 | 0 |
| 1,2,4-Trimethylbenzene | ND |  | 5.0 | 0 |
| 1,3,5-Trimethylbenzene | ND |  | 5.0 | 0 |
| Vinyl acetate | ND |  | 50 |  |
| Vinyl chloride | ND |  | 5.0 | 0 |
| Xylenes, Total | ND |  | 9.9 | 9 |
| 2,2-Dichloropropane | ND |  | 5.0 | 0 |
| Gasoline Range Organics (GRO)-C5-C12 | ND |  | 250 | 50 |
| TBA | ND |  | 5.0 | 0 |
| DIPE | ND |  | 5.0 | 0 |
| TAME | ND |  | 5.0 | 0 |
| Ethyl t-butyl ether | ND |  | 5.0 | 0 |
| Surrogate | \%Rec | Qualifier | Acceptance Limits |  |
| 4-Bromofluorobenzene | 200 | X | 52-130 |  |
| 1,2-Dichloroethane-d4 (Surr) | 219 | X | 67-132 |  |
| Toluene-d8 (Surr) | 197 | X | 58-130 |  |

Client: Sigma Engineering, Inc.
Job Number: 720-23080-1

## Client Sample ID: B1-22'

| Lab Sample ID: <br> Client Matrix: | 720-23080-4 <br> Solid |  | Date Sampled: 10/05/20 <br> Date Received: $10 / 06 / 20$ |  |
| :--- | :--- | :--- | :--- | :--- |
|  |  | 8260B Volatile Organic Compounds (GC/MS) |  |  |
| Method: | 8260B | Analysis Batch: 720-59302 | Instrument ID: | HP12 |
| Preparation: | 5030 B | Prep Batch: $720-59352$ | Lab File ID: | 10100916.D |
| Dilution: | 1.0 |  | Initial Weight/Volume: | 5.17 g |
| Date Analyzed: | $10 / 10 / 20091921$ |  | Final Weight/Volume: | 10 mL |

Date Prepared: 10/10/2009 1000

| Analyte | DryWt Corrected: N | Result (ug/Kg) | Qualifier | RL |
| :---: | :---: | :---: | :---: | :---: |
| Methyl tert-butyl ether |  | ND |  | 4.8 |
| Acetone |  | ND |  | 48 |
| Benzene |  | ND |  | 4.8 |
| Dichlorobromomethane |  | ND |  | 4.8 |
| Bromobenzene |  | ND |  | 4.8 |
| Chlorobromomethane |  | ND |  | 19 |
| Bromoform |  | ND |  | 4.8 |
| Bromomethane |  | ND |  | 9.7 |
| 2-Butanone (MEK) |  | ND |  | 48 |
| n-Butylbenzene |  | ND |  | 4.8 |
| sec-Butylbenzene |  | ND |  | 4.8 |
| tert-Butylbenzene |  | ND |  | 4.8 |
| Carbon disulfide |  | ND |  | 4.8 |
| Carbon tetrachloride |  | ND |  | 4.8 |
| Chlorobenzene |  | ND |  | 4.8 |
| Chloroethane |  | ND |  | 9.7 |
| Chloroform |  | ND |  | 4.8 |
| Chloromethane |  | ND |  | 9.7 |
| 2-Chlorotoluene |  | ND |  | 4.8 |
| 4-Chlorotoluene |  | ND |  | 4.8 |
| Chlorodibromomethane |  | ND |  | 4.8 |
| 1,2-Dichlorobenzene |  | ND |  | 4.8 |
| 1,3-Dichlorobenzene |  | ND |  | 4.8 |
| 1,4-Dichlorobenzene |  | ND |  | 4.8 |
| 1,3-Dichloropropane |  | ND |  | 4.8 |
| 1,1-Dichloropropene |  | ND |  | 4.8 |
| 1,2-Dibromo-3-Chloropropane |  | ND |  | 4.8 |
| Ethylene Dibromide |  | ND |  | 4.8 |
| Dibromomethane |  | ND |  | 9.7 |
| Dichlorodifluoromethane |  | ND |  | 9.7 |
| 1,1-Dichloroethane |  | ND |  | 4.8 |
| 1,2-Dichloroethane |  | ND | * | 4.8 |
| 1,1-Dichloroethene |  | ND |  | 4.8 |
| cis-1,2-Dichloroethene |  | ND |  | 4.8 |
| trans-1,2-Dichloroethene |  | ND |  | 4.8 |
| 1,2-Dichloropropane |  | ND |  | 4.8 |
| cis-1,3-Dichloropropene |  | ND |  | 4.8 |
| trans-1,3-Dichloropropene |  | ND |  | 4.8 |
| Ethylbenzene |  | ND |  | 4.8 |
| Hexachlorobutadiene |  | ND |  | 4.8 |
| 2-Hexanone |  | ND |  | 48 |
| Isopropylbenzene |  | ND |  | 4.8 |
| 4-Isopropyltoluene |  | ND |  | 4.8 |
| Methylene Chloride |  | ND |  | 9.7 |
| 4-Methyl-2-pentanone (MIBK) |  | ND |  | 48 |
| Naphthalene |  | ND |  | 9.7 |

Client: Sigma Engineering, Inc.
Job Number: 720-23080-1

## Client Sample ID: B1-22'

| Lab Sample ID: <br> Client Matrix: | 720-23080-4 <br> Solid |  | Date Sampled: 10/05/20 <br> Date Received: 10/06/20 |  |
| :--- | :--- | :--- | :--- | :--- |
|  |  | 8260B Volatile Organic Compounds (GC/MS) |  |  |
| Method: | 8260B | Analysis Batch: 720-59302 | Instrument ID: | HP12 |
| Preparation: | $5030 B$ | Prep Batch: $720-59352$ | Lab File ID: | 10100916.D |
| Dilution: | 1.0 |  | Initial Weight/Volume: | 5.17 g |
| Date Analyzed: | $10 / 10 / 20091921$ |  | Final Weight/Volume: | 10 mL |

Date Prepared: 10/10/2009 1000

| Analyte DryWt Corrected: N | Result (ug/Kg) | Qualifier | RL | L |
| :---: | :---: | :---: | :---: | :---: |
| N-Propylbenzene | ND |  | 4.8 | 8 |
| Styrene | ND |  | 4.8 | 8 |
| 1,1,1,2-Tetrachloroethane | ND |  | 4.8 | 8 |
| 1,1,2,2-Tetrachloroethane | ND |  | 4.8 | . 8 |
| Tetrachloroethene | ND |  | 4.8 | 8 |
| Toluene | ND |  | 4.8 | 8 |
| 1,2,3-Trichlorobenzene | ND |  | 4.8 | 8 |
| 1,2,4-Trichlorobenzene | ND |  | 4.8 | 8 |
| 1,1,1-Trichloroethane | ND |  | 4.8 | 8 |
| 1,1,2-Trichloroethane | ND |  | 4.8 | 8 |
| Trichloroethene | ND |  | 4.8 | 8 |
| Trichlorofluoromethane | ND |  | 4.8 | 8 |
| 1,2,3-Trichloropropane | ND |  | 4.8 | 8 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND |  | 4.8 | 8 |
| 1,2,4-Trimethylbenzene | ND |  | 4.8 | 8 |
| 1,3,5-Trimethylbenzene | ND |  | 4.8 | 8 |
| Vinyl acetate | ND |  | 48 |  |
| Vinyl chloride | ND |  | 4.8 | 8 |
| Xylenes, Total | ND |  | 9.7 | 7 |
| 2,2-Dichloropropane | ND |  | 4.8 | 8 |
| Gasoline Range Organics (GRO)-C5-C12 | ND |  | 240 | 40 |
| TBA | ND |  | 4.8 | 8 |
| DIPE | ND |  | 4.8 | 8 |
| TAME | ND |  | 4.8 | 8 |
| Ethyl t-butyl ether | ND |  | 4.8 | 8 |
| Surrogate | \%Rec | Qualifier | Acceptance Limits |  |
| 4-Bromofluorobenzene | 79 |  | 52-130 |  |
| 1,2-Dichloroethane-d4 (Surr) | 117 |  | 67-132 |  |
| Toluene-d8 (Surr) | 97 |  | 58-130 |  |

Client: Sigma Engineering, Inc.
Job Number: 720-23080-1

## Client Sample ID: B2-10'

| Lab Sample ID: Client Matrix: | 720-23080-5 <br> Solid |  | Date Sampled: 10/05 <br> Date Received: 10/06 |  |
| :---: | :---: | :---: | :---: | :---: |
| 8260B Volatile Organic Compounds (GC/MS) |  |  |  |  |
| Method: | 8260B | Analysis Batch: 720-59302 | Instrument ID: | HP12 |
| Preparation: | 5030B | Prep Batch: 720-59352 | Lab File ID: | 10100917.D |
| Dilution: | 1.0 |  | Initial Weight/Volume: | 5.98 g |
| Date Analyzed: | 10/10/2009 1954 |  | Final Weight/Volume: | 10 mL |

Date Prepared: 10/10/2009 1000

| Analyte | DryWt Corrected: N | Result (ug/Kg) | Qualifier | RL |
| :---: | :---: | :---: | :---: | :---: |
| Methyl tert-butyl ether |  | ND |  | 4.2 |
| Acetone |  | ND |  | 42 |
| Benzene |  | ND |  | 4.2 |
| Dichlorobromomethane |  | ND |  | 4.2 |
| Bromobenzene |  | ND |  | 4.2 |
| Chlorobromomethane |  | ND |  | 17 |
| Bromoform |  | ND |  | 4.2 |
| Bromomethane |  | ND |  | 8.4 |
| 2-Butanone (MEK) |  | ND |  | 42 |
| n-Butylbenzene |  | ND |  | 4.2 |
| sec-Butylbenzene |  | ND |  | 4.2 |
| tert-Butylbenzene |  | ND |  | 4.2 |
| Carbon disulfide |  | ND |  | 4.2 |
| Carbon tetrachloride |  | ND |  | 4.2 |
| Chlorobenzene |  | ND |  | 4.2 |
| Chloroethane |  | ND |  | 8.4 |
| Chloroform |  | ND |  | 4.2 |
| Chloromethane |  | ND |  | 8.4 |
| 2-Chlorotoluene |  | ND |  | 4.2 |
| 4-Chlorotoluene |  | ND |  | 4.2 |
| Chlorodibromomethane |  | ND |  | 4.2 |
| 1,2-Dichlorobenzene |  | ND |  | 4.2 |
| 1,3-Dichlorobenzene |  | ND |  | 4.2 |
| 1,4-Dichlorobenzene |  | ND |  | 4.2 |
| 1,3-Dichloropropane |  | ND |  | 4.2 |
| 1,1-Dichloropropene |  | ND |  | 4.2 |
| 1,2-Dibromo-3-Chloropropane |  | ND |  | 4.2 |
| Ethylene Dibromide |  | ND |  | 4.2 |
| Dibromomethane |  | ND |  | 8.4 |
| Dichlorodifluoromethane |  | ND |  | 8.4 |
| 1,1-Dichloroethane |  | ND |  | 4.2 |
| 1,2-Dichloroethane |  | ND | * | 4.2 |
| 1,1-Dichloroethene |  | ND |  | 4.2 |
| cis-1,2-Dichloroethene |  | ND |  | 4.2 |
| trans-1,2-Dichloroethene |  | ND |  | 4.2 |
| 1,2-Dichloropropane |  | ND |  | 4.2 |
| cis-1,3-Dichloropropene |  | ND |  | 4.2 |
| trans-1,3-Dichloropropene |  | ND |  | 4.2 |
| Ethylbenzene |  | ND |  | 4.2 |
| Hexachlorobutadiene |  | ND |  | 4.2 |
| 2-Hexanone |  | ND |  | 42 |
| Isopropylbenzene |  | ND |  | 4.2 |
| 4-Isopropyltoluene |  | ND |  | 4.2 |
| Methylene Chloride |  | ND |  | 8.4 |
| 4-Methyl-2-pentanone (MIBK) |  | ND |  | 42 |
| Naphthalene |  | ND |  | 8.4 |

Client: Sigma Engineering, Inc.
Job Number: 720-23080-1

## Client Sample ID: B2-10'

| Lab Sample ID: <br> Client Matrix: | 720-23080-5 <br> Solid |  | Date Sampled: 10/05 <br> Date Received: $10 / 06 / 20$ |
| :--- | :--- | :--- | :--- | :--- |
|  |  | 8260B Volatile Organic Compounds (GC/MS) |  |

Date Prepared: 10/10/2009 1000

| Analyte DryWt Corrected: N | Result (ug/Kg) | Qualifier | RL | L |
| :---: | :---: | :---: | :---: | :---: |
| N-Propylbenzene | ND |  | 4.2 | 2 |
| Styrene | ND |  | 4.2 | 2 |
| 1,1,1,2-Tetrachloroethane | ND |  | 4.2 | 2 |
| 1,1,2,2-Tetrachloroethane | ND |  | 4.2 | 2 |
| Tetrachloroethene | ND |  | 4.2 | 2 |
| Toluene | ND |  | 4.2 | 2 |
| 1,2,3-Trichlorobenzene | ND |  | 4.2 | 2 |
| 1,2,4-Trichlorobenzene | ND |  | 4.2 | 2 |
| 1,1,1-Trichloroethane | ND |  | 4.2 | 2 |
| 1,1,2-Trichloroethane | ND |  | 4.2 | 2 |
| Trichloroethene | ND |  | 4.2 | 2 |
| Trichlorofluoromethane | ND |  | 4.2 | 2 |
| 1,2,3-Trichloropropane | ND |  | 4.2 | 2 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND |  | 4.2 | 2 |
| 1,2,4-Trimethylbenzene | ND |  | 4.2 | 2 |
| 1,3,5-Trimethylbenzene | ND |  | 4.2 | 2 |
| Vinyl acetate | ND |  | 42 |  |
| Vinyl chloride | ND |  | 4.2 | 2 |
| Xylenes, Total | ND |  | 8.4 | 4 |
| 2,2-Dichloropropane | ND |  | 4.2 | 2 |
| Gasoline Range Organics (GRO)-C5-C12 | ND |  | 210 | 10 |
| TBA | ND |  | 4.2 | 2 |
| DIPE | ND |  | 4.2 | 2 |
| TAME | ND |  | 4.2 | 2 |
| Ethyl t-butyl ether | ND |  | 4.2 | 2 |
| Surrogate | \%Rec | Qualifier | Acceptance Limits |  |
| 4-Bromofluorobenzene | 103 |  | 52-130 |  |
| 1,2-Dichloroethane-d4 (Surr) | 112 |  | 67-132 |  |
| Toluene-d8 (Surr) | 104 |  | 58-130 |  |

Client: Sigma Engineering, Inc.
Job Number: 720-23080-1

## Client Sample ID: B2-23'

| Lab Sample ID: Client Matrix: | 720-23080-6 <br> Solid |  | Date Sampled: 10/05 Date Received: 10/06 |  |
| :---: | :---: | :---: | :---: | :---: |
|  | 8260B Volatile Organic Compounds (GC/MS) |  |  |  |
| Method: | 8260B | Analysis Batch: 720-59384 | Instrument ID: | HP12 |
| Preparation: | 5030B | Prep Batch: 720-59432 | Lab File ID: | 10120930.D |
| Dilution: | 1.0 |  | Initial Weight/Volume: | 5.00 g |
| Date Analyzed: | 10/13/2009 0139 |  | Final Weight/Volume: | 10 mL |

Date Prepared: 10/12/2009 0800

| Analyte | DryWt Corrected: N | Result (ug/Kg) | Qualifier | RL |
| :---: | :---: | :---: | :---: | :---: |
| Methyl tert-butyl ether |  | ND |  | 5.0 |
| Acetone |  | ND |  | 50 |
| Benzene |  | ND |  | 5.0 |
| Dichlorobromomethane |  | ND |  | 5.0 |
| Bromobenzene |  | ND |  | 5.0 |
| Chlorobromomethane |  | ND |  | 20 |
| Bromoform |  | ND |  | 5.0 |
| Bromomethane |  | ND |  | 10 |
| 2-Butanone (MEK) |  | ND |  | 50 |
| n-Butylbenzene |  | ND |  | 5.0 |
| sec-Butylbenzene |  | ND |  | 5.0 |
| tert-Butylbenzene |  | ND |  | 5.0 |
| Carbon disulfide |  | ND |  | 5.0 |
| Carbon tetrachloride |  | ND |  | 5.0 |
| Chlorobenzene |  | ND |  | 5.0 |
| Chloroethane |  | ND |  | 10 |
| Chloroform |  | ND |  | 5.0 |
| Chloromethane |  | ND |  | 10 |
| 2-Chlorotoluene |  | ND |  | 5.0 |
| 4-Chlorotoluene |  | ND |  | 5.0 |
| Chlorodibromomethane |  | ND |  | 5.0 |
| 1,2-Dichlorobenzene |  | ND |  | 5.0 |
| 1,3-Dichlorobenzene |  | ND |  | 5.0 |
| 1,4-Dichlorobenzene |  | ND |  | 5.0 |
| 1,3-Dichloropropane |  | ND |  | 5.0 |
| 1,1-Dichloropropene |  | ND |  | 5.0 |
| 1,2-Dibromo-3-Chloropropane |  | ND |  | 5.0 |
| Ethylene Dibromide |  | ND |  | 5.0 |
| Dibromomethane |  | ND |  | 10 |
| Dichlorodifluoromethane |  | ND |  | 10 |
| 1,1-Dichloroethane |  | ND |  | 5.0 |
| 1,2-Dichloroethane |  | ND |  | 5.0 |
| 1,1-Dichloroethene |  | ND |  | 5.0 |
| cis-1,2-Dichloroethene |  | ND |  | 5.0 |
| trans-1,2-Dichloroethene |  | ND |  | 5.0 |
| 1,2-Dichloropropane |  | ND |  | 5.0 |
| cis-1,3-Dichloropropene |  | ND |  | 5.0 |
| trans-1,3-Dichloropropene |  | ND |  | 5.0 |
| Ethylbenzene |  | ND |  | 5.0 |
| Hexachlorobutadiene |  | ND |  | 5.0 |
| 2-Hexanone |  | ND |  | 50 |
| Isopropylbenzene |  | ND |  | 5.0 |
| 4-Isopropyltoluene |  | ND |  | 5.0 |
| Methylene Chloride |  | 16 |  | 10 |
| 4-Methyl-2-pentanone (MIBK) |  | ND |  | 50 |
| Naphthalene |  | ND |  | 10 |

Client: Sigma Engineering, Inc.
Job Number: 720-23080-1
Client Sample ID: B2-23'

| Lab Sample ID: Client Matrix: | 720-23080-6 <br> Solid |  | Date Sampled: 10/05 <br> Date Received: 10/06 |  |
| :---: | :---: | :---: | :---: | :---: |
| 8260B Volatile Organic Compounds (GC/MS) |  |  |  |  |
| Method: | 8260B | Analysis Batch: 720-59384 | Instrument ID: | HP12 |
| Preparation: | 5030B | Prep Batch: 720-59432 | Lab File ID: | 10120930.D |
| Dilution: | 1.0 |  | Initial Weight/Volume: | 5.00 g |
| Date Analyzed: | 10/13/2009 0139 |  | Final Weight/Volume: | 10 mL |
| Date Prepared: | 10/12/2009 0800 |  |  |  |



Client: Sigma Engineering, Inc.
Job Number: 720-23080-1

## Client Sample ID: MW4-10'

| Lab Sample ID: <br> Client Matrix: | 720-23080-7 <br> Solid |  | Date Sampled: 10/05/20 <br> Date Received: $10 / 06$ |
| :--- | :--- | :--- | :--- | :--- |
|  |  | 8260B Volatile Organic Compounds (GC/MS) |  |

Date Prepared: 10/13/2009 0800

| Analyte | DryWt Corrected: N | Result (ug/Kg) | Qualifier | RL |
| :---: | :---: | :---: | :---: | :---: |
| Methyl tert-butyl ether |  | ND |  | 3.8 |
| Acetone |  | ND |  | 38 |
| Benzene |  | ND |  | 3.8 |
| Dichlorobromomethane |  | ND |  | 3.8 |
| Bromobenzene |  | ND |  | 3.8 |
| Chlorobromomethane |  | ND |  | 15 |
| Bromoform |  | ND |  | 3.8 |
| Bromomethane |  | ND |  | 7.7 |
| 2-Butanone (MEK) |  | ND |  | 38 |
| n-Butylbenzene |  | ND |  | 3.8 |
| sec-Butylbenzene |  | ND |  | 3.8 |
| tert-Butylbenzene |  | ND |  | 3.8 |
| Carbon disulfide |  | ND |  | 3.8 |
| Carbon tetrachloride |  | ND |  | 3.8 |
| Chlorobenzene |  | ND |  | 3.8 |
| Chloroethane |  | ND |  | 7.7 |
| Chloroform |  | ND |  | 3.8 |
| Chloromethane |  | ND |  | 7.7 |
| 2-Chlorotoluene |  | ND |  | 3.8 |
| 4-Chlorotoluene |  | ND |  | 3.8 |
| Chlorodibromomethane |  | ND |  | 3.8 |
| 1,2-Dichlorobenzene |  | ND |  | 3.8 |
| 1,3-Dichlorobenzene |  | ND |  | 3.8 |
| 1,4-Dichlorobenzene |  | ND |  | 3.8 |
| 1,3-Dichloropropane |  | ND |  | 3.8 |
| 1,1-Dichloropropene |  | ND |  | 3.8 |
| 1,2-Dibromo-3-Chloropropane |  | ND |  | 3.8 |
| Ethylene Dibromide |  | ND |  | 3.8 |
| Dibromomethane |  | ND |  | 7.7 |
| Dichlorodifluoromethane |  | ND |  | 7.7 |
| 1,1-Dichloroethane |  | ND |  | 3.8 |
| 1,2-Dichloroethane |  | ND |  | 3.8 |
| 1,1-Dichloroethene |  | ND |  | 3.8 |
| cis-1,2-Dichloroethene |  | ND |  | 3.8 |
| trans-1,2-Dichloroethene |  | ND |  | 3.8 |
| 1,2-Dichloropropane |  | ND |  | 3.8 |
| cis-1,3-Dichloropropene |  | ND |  | 3.8 |
| trans-1,3-Dichloropropene |  | ND |  | 3.8 |
| Ethylbenzene |  | ND |  | 3.8 |
| Hexachlorobutadiene |  | ND |  | 3.8 |
| 2-Hexanone |  | ND |  | 38 |
| Isopropylbenzene |  | ND |  | 3.8 |
| 4-Isopropyltoluene |  | ND |  | 3.8 |
| Methylene Chloride |  | ND |  | 7.7 |
| 4-Methyl-2-pentanone (MIBK) |  | ND |  | 38 |
| Naphthalene |  | ND |  | 7.7 |

Client: Sigma Engineering, Inc.
Job Number: 720-23080-1

## Client Sample ID: MW4-10'

| Lab Sample ID: <br> Client Matrix: | 720-23080-7 <br> Solid |  | Date Sampled: 10/05/20 <br> Date Received: $10 / 06$ |  |
| :--- | :--- | :--- | :--- | :--- |

Date Prepared: 10/13/2009 0800

| Analyte DryWt Corrected: N | Result (ug/Kg) | Qualifier | RL | L |
| :---: | :---: | :---: | :---: | :---: |
| N-Propylbenzene | ND |  | 3.8 | . 8 |
| Styrene | ND |  | 3.8 | . 8 |
| 1,1,1,2-Tetrachloroethane | ND |  | 3.8 | . 8 |
| 1,1,2,2-Tetrachloroethane | ND |  | 3.8 | . 8 |
| Tetrachloroethene | ND |  | 3.8 | . 8 |
| Toluene | ND |  | 3.8 | . 8 |
| 1,2,3-Trichlorobenzene | ND |  | 3.8 | . 8 |
| 1,2,4-Trichlorobenzene | ND |  | 3.8 | . 8 |
| 1,1,1-Trichloroethane | ND |  | 3.8 | . 8 |
| 1,1,2-Trichloroethane | ND |  | 3.8 | . 8 |
| Trichloroethene | ND |  | 3.8 | . 8 |
| Trichlorofluoromethane | ND |  | 3.8 | . 8 |
| 1,2,3-Trichloropropane | ND |  | 3.8 | . 8 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND |  | 3.8 | . 8 |
| 1,2,4-Trimethylbenzene | ND |  | 3.8 | . 8 |
| 1,3,5-Trimethylbenzene | ND |  | 3.8 | . 8 |
| Vinyl acetate | ND |  | 38 |  |
| Vinyl chloride | ND |  | 3.8 | 8 |
| Xylenes, Total | ND |  | 7.7 | . 7 |
| 2,2-Dichloropropane | ND |  | 3.8 | 8 |
| Gasoline Range Organics (GRO)-C5-C12 | ND |  |  | 90 |
| TBA | ND |  | 3.8 | 8 |
| DIPE | ND |  | 3.8 | . 8 |
| TAME | ND |  | 3.8 | . 8 |
| Ethyl t-butyl ether | ND |  | 3.8 | 8 |
| Surrogate | \%Rec | Qualifier | Acceptance Limits |  |
| 4-Bromofluorobenzene | 106 |  | 52-140 |  |
| 1,2-Dichloroethane-d4 (Surr) | 134 |  | 60-140 |  |
| Toluene-d8 (Surr) | 102 |  | 58-140 |  |

Client: Sigma Engineering, Inc.
Job Number: 720-23080-1

## Client Sample ID: MW4-15'

| Lab Sample ID: Client Matrix: | 720-23080-8 <br> Solid |  | Date Sampled: 10/05 <br> Date Received: 10/06 |  |
| :---: | :---: | :---: | :---: | :---: |
|  | 8260B Volatile Organic Compounds (GC/MS) |  |  |  |
| Method: | 8260B | Analysis Batch: 720-59397 | Instrument ID: | HP12 |
| Preparation: | 5035 | Prep Batch: 720-59492 | Lab File ID: | 10130913.D |
| Dilution: | 1.0 |  | Initial Weight/Volume: | 6.798 g |
| Date Analyzed: | 10/13/2009 1436 |  | Final Weight/Volume: | 10 mL |

Date Prepared: 10/13/2009 0800

| Analyte | DryWt Corrected: N | Result (ug/Kg) | Qualifier | RL |
| :---: | :---: | :---: | :---: | :---: |
| Methyl tert-butyl ether |  | ND |  | 3.7 |
| Acetone |  | ND |  | 37 |
| Benzene |  | ND |  | 3.7 |
| Dichlorobromomethane |  | ND |  | 3.7 |
| Bromobenzene |  | ND |  | 3.7 |
| Chlorobromomethane |  | ND |  | 15 |
| Bromoform |  | ND |  | 3.7 |
| Bromomethane |  | ND |  | 7.4 |
| 2-Butanone (MEK) |  | ND |  | 37 |
| n-Butylbenzene |  | ND |  | 3.7 |
| sec-Butylbenzene |  | ND |  | 3.7 |
| tert-Butylbenzene |  | ND |  | 3.7 |
| Carbon disulfide |  | ND |  | 3.7 |
| Carbon tetrachloride |  | ND |  | 3.7 |
| Chlorobenzene |  | ND |  | 3.7 |
| Chloroethane |  | ND |  | 7.4 |
| Chloroform |  | ND |  | 3.7 |
| Chloromethane |  | ND |  | 7.4 |
| 2-Chlorotoluene |  | ND |  | 3.7 |
| 4-Chlorotoluene |  | ND |  | 3.7 |
| Chlorodibromomethane |  | ND |  | 3.7 |
| 1,2-Dichlorobenzene |  | ND |  | 3.7 |
| 1,3-Dichlorobenzene |  | ND |  | 3.7 |
| 1,4-Dichlorobenzene |  | ND |  | 3.7 |
| 1,3-Dichloropropane |  | ND |  | 3.7 |
| 1,1-Dichloropropene |  | ND |  | 3.7 |
| 1,2-Dibromo-3-Chloropropane |  | ND |  | 3.7 |
| Ethylene Dibromide |  | ND |  | 3.7 |
| Dibromomethane |  | ND |  | 7.4 |
| Dichlorodifluoromethane |  | ND |  | 7.4 |
| 1,1-Dichloroethane |  | ND |  | 3.7 |
| 1,2-Dichloroethane |  | ND |  | 3.7 |
| 1,1-Dichloroethene |  | ND |  | 3.7 |
| cis-1,2-Dichloroethene |  | ND |  | 3.7 |
| trans-1,2-Dichloroethene |  | ND |  | 3.7 |
| 1,2-Dichloropropane |  | ND |  | 3.7 |
| cis-1,3-Dichloropropene |  | ND |  | 3.7 |
| trans-1,3-Dichloropropene |  | ND |  | 3.7 |
| Ethylbenzene |  | ND |  | 3.7 |
| Hexachlorobutadiene |  | ND |  | 3.7 |
| 2-Hexanone |  | ND |  | 37 |
| Isopropylbenzene |  | ND |  | 3.7 |
| 4-Isopropyltoluene |  | ND |  | 3.7 |
| Methylene Chloride |  | ND |  | 7.4 |
| 4-Methyl-2-pentanone (MIBK) |  | ND |  | 37 |
| Naphthalene |  | ND |  | 7.4 |

Client: Sigma Engineering, Inc.
Job Number: 720-23080-1

## Client Sample ID: MW4-15'

| Lab Sample ID: Client Matrix: | 720-23080-8 <br> Solid |  | Date Sampled: 10/05 <br> Date Received: 10/06 |  |
| :---: | :---: | :---: | :---: | :---: |
|  | 8260B Volatile Organic Compounds (GC/MS) |  |  |  |
| Method: | 8260B | Analysis Batch: 720-59397 | Instrument ID: | HP12 |
| Preparation: | 5035 | Prep Batch: 720-59492 | Lab File ID: | 10130913.D |
| Dilution: | 1.0 |  | Initial Weight/Volume: | 6.798 g |
| Date Analyzed: | 10/13/2009 1436 |  | Final Weight/Volume: | 10 mL |

Date Prepared: 10/13/2009 0800

| Analyte DryWt Corrected: N | Result (ug/Kg) | Qualifier | RL | L |
| :---: | :---: | :---: | :---: | :---: |
| N-Propylbenzene | ND |  | 3.7 | . 7 |
| Styrene | ND |  | 3.7 | . 7 |
| 1,1,1,2-Tetrachloroethane | ND |  | 3.7 | . 7 |
| 1,1,2,2-Tetrachloroethane | ND |  | 3.7 | . 7 |
| Tetrachloroethene | ND |  | 3.7 | . 7 |
| Toluene | ND |  | 3.7 | . 7 |
| 1,2,3-Trichlorobenzene | ND |  | 3.7 | . 7 |
| 1,2,4-Trichlorobenzene | ND |  | 3.7 | . 7 |
| 1,1,1-Trichloroethane | ND |  | 3.7 | . 7 |
| 1,1,2-Trichloroethane | ND |  | 3.7 | . 7 |
| Trichloroethene | ND |  | 3.7 | 7 |
| Trichlorofluoromethane | ND |  | 3.7 | . 7 |
| 1,2,3-Trichloropropane | ND |  | 3.7 | . 7 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND |  | 3.7 | . 7 |
| 1,2,4-Trimethylbenzene | ND |  | 3.7 | . 7 |
| 1,3,5-Trimethylbenzene | ND |  | 3.7 | . 7 |
| Vinyl acetate | ND |  | 37 |  |
| Vinyl chloride | ND |  | 3.7 | . 7 |
| Xylenes, Total | ND |  | 7.4 | 4 |
| 2,2-Dichloropropane | ND |  | 3.7 | . 7 |
| Gasoline Range Organics (GRO)-C5-C12 | ND |  |  | 80 |
| TBA | ND |  | 3.7 | . 7 |
| DIPE | ND |  | 3.7 | . 7 |
| TAME | ND |  | 3.7 | . 7 |
| Ethyl t-butyl ether | ND |  | 3.7 | . 7 |
| Surrogate | \%Rec | Qualifier | Acceptance Limits |  |
| 4-Bromofluorobenzene | 90 |  | 52-140 |  |
| 1,2-Dichloroethane-d4 (Surr) | 134 |  | 60-140 |  |
| Toluene-d8 (Surr) | 97 |  | 58-140 |  |

Client: Sigma Engineering, Inc.
Job Number: 720-23080-1

## Client Sample ID: MW3-10'

| Lab Sample ID: <br> Client Matrix: | $720-23080-10$ <br> Solid |  | Date Sampled: 10/05 <br> Date Received: $10 / 06 / 20$ |
| :--- | :--- | :--- | :--- | :--- |
|  |  | 8260B Volatile Organic Compounds (GC/MS) |  |

Date Prepared: 10/13/2009 0800

| Analyte | DryWt Corrected: N | Result (ug/Kg) | Qualifier | RL |
| :---: | :---: | :---: | :---: | :---: |
| Methyl tert-butyl ether |  | ND |  | 4.5 |
| Acetone |  | ND |  | 45 |
| Benzene |  | ND |  | 4.5 |
| Dichlorobromomethane |  | ND |  | 4.5 |
| Bromobenzene |  | ND |  | 4.5 |
| Chlorobromomethane |  | ND |  | 18 |
| Bromoform |  | ND |  | 4.5 |
| Bromomethane |  | ND |  | 8.9 |
| 2-Butanone (MEK) |  | ND |  | 45 |
| n-Butylbenzene |  | ND |  | 4.5 |
| sec-Butylbenzene |  | ND |  | 4.5 |
| tert-Butylbenzene |  | ND |  | 4.5 |
| Carbon disulfide |  | ND |  | 4.5 |
| Carbon tetrachloride |  | ND |  | 4.5 |
| Chlorobenzene |  | ND |  | 4.5 |
| Chloroethane |  | ND |  | 8.9 |
| Chloroform |  | ND |  | 4.5 |
| Chloromethane |  | ND |  | 8.9 |
| 2-Chlorotoluene |  | ND |  | 4.5 |
| 4-Chlorotoluene |  | ND |  | 4.5 |
| Chlorodibromomethane |  | ND |  | 4.5 |
| 1,2-Dichlorobenzene |  | ND |  | 4.5 |
| 1,3-Dichlorobenzene |  | ND |  | 4.5 |
| 1,4-Dichlorobenzene |  | ND |  | 4.5 |
| 1,3-Dichloropropane |  | ND |  | 4.5 |
| 1,1-Dichloropropene |  | ND |  | 4.5 |
| 1,2-Dibromo-3-Chloropropane |  | ND |  | 4.5 |
| Ethylene Dibromide |  | ND |  | 4.5 |
| Dibromomethane |  | ND |  | 8.9 |
| Dichlorodifluoromethane |  | ND |  | 8.9 |
| 1,1-Dichloroethane |  | ND |  | 4.5 |
| 1,2-Dichloroethane |  | ND |  | 4.5 |
| 1,1-Dichloroethene |  | ND |  | 4.5 |
| cis-1,2-Dichloroethene |  | ND |  | 4.5 |
| trans-1,2-Dichloroethene |  | ND |  | 4.5 |
| 1,2-Dichloropropane |  | ND |  | 4.5 |
| cis-1,3-Dichloropropene |  | ND |  | 4.5 |
| trans-1,3-Dichloropropene |  | ND |  | 4.5 |
| Ethylbenzene |  | ND |  | 4.5 |
| Hexachlorobutadiene |  | ND |  | 4.5 |
| 2-Hexanone |  | ND |  | 45 |
| Isopropylbenzene |  | ND |  | 4.5 |
| 4-Isopropyltoluene |  | ND |  | 4.5 |
| Methylene Chloride |  | ND |  | 8.9 |
| 4-Methyl-2-pentanone (MIBK) |  | ND |  | 45 |
| Naphthalene |  | ND |  | 8.9 |

Client: Sigma Engineering, Inc.
Job Number: 720-23080-1

## Client Sample ID: MW3-10'

| Lab Sample ID: Client Matrix: | $720-23080-10$ <br> Solid |  | Date Sampled: 10/05 Date Received: 10/06 |  |
| :---: | :---: | :---: | :---: | :---: |
| 8260B Volatile Organic Compounds (GC/MS) |  |  |  |  |
| Method: | 8260B | Analysis Batch: 720-59397 | Instrument ID: | HP12 |
| Preparation: | 5035 | Prep Batch: 720-59492 | Lab File ID: | 10130914.D |
| Dilution: | 1.0 |  | Initial Weight/Volume: | 5.598 g |
| Date Analyzed: | 10/13/2009 1509 |  | Final Weight/Volume: | 10 mL |

Date Prepared: 10/13/2009 0800

| Analyte DryWt Corrected: N | Result (ug/Kg) | Qualifier | RL |  |
| :---: | :---: | :---: | :---: | :---: |
| N-Propylbenzene | ND |  | 4.5 | 5 |
| Styrene | ND |  | 4.5 | 5 |
| 1,1,1,2-Tetrachloroethane | ND |  | 4.5 | 5 |
| 1,1,2,2-Tetrachloroethane | ND |  | 4.5 | 5 |
| Tetrachloroethene | ND |  | 4.5 | 5 |
| Toluene | ND |  | 4.5 | 5 |
| 1,2,3-Trichlorobenzene | ND |  | 4.5 | 5 |
| 1,2,4-Trichlorobenzene | ND |  | 4.5 | 5 |
| 1,1,1-Trichloroethane | ND |  | 4.5 | 5 |
| 1,1,2-Trichloroethane | ND |  | 4.5 | 5 |
| Trichloroethene | ND |  | 4.5 | 5 |
| Trichlorofluoromethane | ND |  | 4.5 | 5 |
| 1,2,3-Trichloropropane | ND |  | 4.5 | 5 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND |  | 4.5 | 5 |
| 1,2,4-Trimethylbenzene | ND |  | 4.5 | 5 |
| 1,3,5-Trimethylbenzene | ND |  | 4.5 | 5 |
| Vinyl acetate | ND |  | 45 |  |
| Vinyl chloride | ND |  | 4.5 | 5 |
| Xylenes, Total | ND |  | 8.9 | 9 |
| 2,2-Dichloropropane | ND |  | 4.5 | 5 |
| Gasoline Range Organics (GRO)-C5-C12 | ND |  | 220 | 20 |
| TBA | ND |  | 4.5 | 5 |
| DIPE | ND |  | 4.5 | 5 |
| TAME | ND |  | 4.5 | 5 |
| Ethyl t-butyl ether | ND |  | 4.5 | 5 |
| Surrogate | \%Rec | Qualifier | Acceptance Limits |  |
| 4-Bromofluorobenzene | 85 |  | 52-140 |  |
| 1,2-Dichloroethane-d4 (Surr) | 138 |  | 60-140 |  |
| Toluene-d8 (Surr) | 97 |  | 58-140 |  |

Client: Sigma Engineering, Inc.
Job Number: 720-23080-1

## Client Sample ID: MW3-15'

| Lab Sample ID: Client Matrix: | $720-23080-11$ <br> Solid |  | Date Sampled: 10/05 <br> Date Received: 10/06 |  |
| :---: | :---: | :---: | :---: | :---: |
|  | 8260B Volatile Organic Compounds (GC/MS) |  |  |  |
| Method: | 8260B | Analysis Batch: 720-59397 | Instrument ID: | HP12 |
| Preparation: | 5035 | Prep Batch: 720-59492 | Lab File ID: | 10130915.D |
| Dilution: | 1.0 |  | Initial Weight/Volume: | 6.246 g |
| Date Analyzed: | 10/13/2009 1543 |  | Final Weight/Volume: | 10 mL |

Date Prepared: 10/13/2009 0800

| Analyte | DryWt Corrected: N | Result (ug/Kg) | Qualifier | RL |
| :---: | :---: | :---: | :---: | :---: |
| Methyl tert-butyl ether |  | ND |  | 4.0 |
| Acetone |  | ND |  | 40 |
| Benzene |  | ND |  | 4.0 |
| Dichlorobromomethane |  | ND |  | 4.0 |
| Bromobenzene |  | ND |  | 4.0 |
| Chlorobromomethane |  | ND |  | 16 |
| Bromoform |  | ND |  | 4.0 |
| Bromomethane |  | ND |  | 8.0 |
| 2-Butanone (MEK) |  | ND |  | 40 |
| n-Butylbenzene |  | ND |  | 4.0 |
| sec-Butylbenzene |  | ND |  | 4.0 |
| tert-Butylbenzene |  | ND |  | 4.0 |
| Carbon disulfide |  | ND |  | 4.0 |
| Carbon tetrachloride |  | ND |  | 4.0 |
| Chlorobenzene |  | ND |  | 4.0 |
| Chloroethane |  | ND |  | 8.0 |
| Chloroform |  | ND |  | 4.0 |
| Chloromethane |  | ND |  | 8.0 |
| 2-Chlorotoluene |  | ND |  | 4.0 |
| 4-Chlorotoluene |  | ND |  | 4.0 |
| Chlorodibromomethane |  | ND |  | 4.0 |
| 1,2-Dichlorobenzene |  | ND |  | 4.0 |
| 1,3-Dichlorobenzene |  | ND |  | 4.0 |
| 1,4-Dichlorobenzene |  | ND |  | 4.0 |
| 1,3-Dichloropropane |  | ND |  | 4.0 |
| 1,1-Dichloropropene |  | ND |  | 4.0 |
| 1,2-Dibromo-3-Chloropropane |  | ND |  | 4.0 |
| Ethylene Dibromide |  | ND |  | 4.0 |
| Dibromomethane |  | ND |  | 8.0 |
| Dichlorodifluoromethane |  | ND |  | 8.0 |
| 1,1-Dichloroethane |  | ND |  | 4.0 |
| 1,2-Dichloroethane |  | ND |  | 4.0 |
| 1,1-Dichloroethene |  | ND |  | 4.0 |
| cis-1,2-Dichloroethene |  | ND |  | 4.0 |
| trans-1,2-Dichloroethene |  | ND |  | 4.0 |
| 1,2-Dichloropropane |  | ND |  | 4.0 |
| cis-1,3-Dichloropropene |  | ND |  | 4.0 |
| trans-1,3-Dichloropropene |  | ND |  | 4.0 |
| Ethylbenzene |  | ND |  | 4.0 |
| Hexachlorobutadiene |  | ND |  | 4.0 |
| 2-Hexanone |  | ND |  | 40 |
| Isopropylbenzene |  | ND |  | 4.0 |
| 4-Isopropyltoluene |  | ND |  | 4.0 |
| Methylene Chloride |  | ND |  | 8.0 |
| 4-Methyl-2-pentanone (MIBK) |  | ND |  | 40 |
| Naphthalene |  | ND |  | 8.0 |

Client: Sigma Engineering, Inc.
Job Number: 720-23080-1

## Client Sample ID: MW3-15'

| Lab Sample ID: Client Matrix: | 720-23080-11 <br> Solid |  | Date Sampled: 10/05 <br> Date Received: 10/06 |  |
| :---: | :---: | :---: | :---: | :---: |
|  | 8260B Volatile Organic Compounds (GC/MS) |  |  |  |
| Method: | 8260B | Analysis Batch: 720-59397 | Instrument ID: | HP12 |
| Preparation: | 5035 | Prep Batch: 720-59492 | Lab File ID: | 10130915.D |
| Dilution: | 1.0 |  | Initial Weight/Volume: | 6.246 g |
| Date Analyzed: | 10/13/2009 1543 |  | Final Weight/Volume: | 10 mL |

Date Prepared: 10/13/2009 0800

| Analyte DryWt Corrected: N | Result (ug/Kg) | Qualifier | RL |
| :---: | :---: | :---: | :---: |
| N-Propylbenzene | ND |  | 4.0 |
| Styrene | ND |  | 4.0 |
| 1,1,1,2-Tetrachloroethane | ND |  | 4.0 |
| 1,1,2,2-Tetrachloroethane | ND |  | 4.0 |
| Tetrachloroethene | ND |  | 4.0 |
| Toluene | ND |  | 4.0 |
| 1,2,3-Trichlorobenzene | ND |  | 4.0 |
| 1,2,4-Trichlorobenzene | ND |  | 4.0 |
| 1,1,1-Trichloroethane | ND |  | 4.0 |
| 1,1,2-Trichloroethane | ND |  | 4.0 |
| Trichloroethene | ND |  | 4.0 |
| Trichlorofluoromethane | ND |  | 4.0 |
| 1,2,3-Trichloropropane | ND |  | 4.0 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND |  | 4.0 |
| 1,2,4-Trimethylbenzene | ND |  | 4.0 |
| 1,3,5-Trimethylbenzene | ND |  | 4.0 |
| Vinyl acetate | ND |  | 40 |
| Vinyl chloride | ND |  | 4.0 |
| Xylenes, Total | ND |  | 8.0 |
| 2,2-Dichloropropane | ND |  | 4.0 |
| Gasoline Range Organics (GRO)-C5-C12 | ND |  | 200 |
| TBA | ND |  | 4.0 |
| DIPE | ND |  | 4.0 |
| TAME | ND |  | 4.0 |
| Ethyl t-butyl ether | ND |  | 4.0 |
| Surrogate | \%Rec | Qualifier | Acceptance Limits |
| 4-Bromofluorobenzene | 67 |  | 52-140 |
| 1,2-Dichloroethane-d4 (Surr) | 124 |  | 60-140 |
| Toluene-d8 (Surr) | 92 |  | 58-140 |

Client: Sigma Engineering, Inc.
Job Number: 720-23080-1

## Client Sample ID: MW2-10'

| Lab Sample ID: | $720-23080-13$ | Date Sampled: 10/04/2009 1255 |
| :--- | :--- | :--- |
| Client Matrix: | Solid | Date Received: 10/06/2009 1834 |


| 8260B Volatile Organic Compounds (GC/MS) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Method: | 8260B | Analysis Batch: 720-59397 | Instrument ID: | HP12 |
| Preparation: | 5035 | Prep Batch: 720-59492 | Lab File ID: | 10130916.D |
| Dilution: | 1.0 |  | Initial Weight/Volume: | 5.986 g |
| Date Analyzed: | 10/13/2009 1616 |  | Final Weight/Volume: | 10 mL |
| Date Prepared: | 10/13/2009 0800 |  |  |  |
| Analyte | DryWt Corrected: N | Result (ug/Kg) | Qualifier | RL |
| Methyl tert-butyl ether |  | ND |  | 4.2 |
| Acetone |  | ND |  | 42 |
| Benzene |  | ND |  | 4.2 |
| Dichlorobromomethane |  | ND |  | 4.2 |
| Bromobenzene |  | ND |  | 4.2 |
| Chlorobromomethane |  | ND |  | 17 |
| Bromoform |  | ND |  | 4.2 |
| Bromomethane |  | ND |  | 8.4 |
| 2-Butanone (MEK) |  | ND |  | 42 |
| n-Butylbenzene |  | ND |  | 4.2 |
| sec-Butylbenzene |  | ND |  | 4.2 |
| tert-Butylbenzene |  | ND |  | 4.2 |
| Carbon disulfide |  | ND |  | 4.2 |
| Carbon tetrachloride |  | ND |  | 4.2 |
| Chlorobenzene |  | ND |  | 4.2 |
| Chloroethane |  | ND |  | 8.4 |
| Chloroform |  | ND |  | 4.2 |
| Chloromethane |  | ND |  | 8.4 |
| 2-Chlorotoluene |  | ND |  | 4.2 |
| 4-Chlorotoluene |  | ND |  | 4.2 |
| Chlorodibromomethane |  | ND |  | 4.2 |
| 1,2-Dichlorobenzene |  | ND |  | 4.2 |
| 1,3-Dichlorobenzene |  | ND |  | 4.2 |
| 1,4-Dichlorobenzene |  | ND |  | 4.2 |
| 1,3-Dichloropropane |  | ND |  | 4.2 |
| 1,1-Dichloropropene |  | ND |  | 4.2 |
| 1,2-Dibromo-3-Chloropropane |  | ND |  | 4.2 |
| Ethylene Dibromide |  | ND |  | 4.2 |
| Dibromomethane |  | ND |  | 8.4 |
| Dichlorodifluoromethane |  | ND |  | 8.4 |
| 1,1-Dichloroethane |  | ND |  | 4.2 |
| 1,2-Dichloroethane |  | ND |  | 4.2 |
| 1,1-Dichloroethene |  | ND |  | 4.2 |
| cis-1,2-Dichloroethene |  | ND |  | 4.2 |
| trans-1,2-Dichloroethene |  | ND |  | 4.2 |
| 1,2-Dichloropropane |  | ND |  | 4.2 |
| cis-1,3-Dichloropropene |  | ND |  | 4.2 |
| trans-1,3-Dichloropropene |  | ND |  | 4.2 |
| Ethylbenzene |  | ND |  | 4.2 |
| Hexachlorobutadiene |  | ND |  | 4.2 |
| 2-Hexanone |  | ND |  | 42 |
| Isopropylbenzene |  | ND |  | 4.2 |
| 4-Isopropyltoluene |  | ND |  | 4.2 |
| Methylene Chloride |  | ND |  | 8.4 |
| 4-Methyl-2-pentanone (MIBK) |  | ND |  | 42 |
| Naphthalene |  | ND |  | 8.4 |

Client: Sigma Engineering, Inc.
Job Number: 720-23080-1

## Client Sample ID: MW2-10'

| Lab Sample ID: | $720-23080-13$ | Date Sampled: 10/04/2009 1255 |
| :--- | :--- | :--- |
| Client Matrix: | Solid | Date Received: 10/06/2009 1834 |


|  |  |  |
| :--- | :--- | :--- |

Client: Sigma Engineering, Inc.
Job Number: 720-23080-1

## Client Sample ID: MW2-15'

| Lab Sample ID: <br> Client Matrix: | 720-23080-14 <br> Solid |  | Date Sampled: 10/04 <br> Date Received: 10/06 |
| :--- | :--- | :--- | :--- | :--- |
|  |  | 8260B Volatile Organic Compounds (GC/MS) |  |


| Analyte | DryWt Corrected: N | Result (ug/Kg) | Qualifier | RL |
| :---: | :---: | :---: | :---: | :---: |
| Methyl tert-butyl ether |  | ND |  | 3.9 |
| Acetone |  | ND |  | 39 |
| Benzene |  | ND |  | 3.9 |
| Dichlorobromomethane |  | ND |  | 3.9 |
| Bromobenzene |  | ND |  | 3.9 |
| Chlorobromomethane |  | ND |  | 15 |
| Bromoform |  | ND |  | 3.9 |
| Bromomethane |  | ND |  | 7.7 |
| 2-Butanone (MEK) |  | ND |  | 39 |
| n-Butylbenzene |  | ND |  | 3.9 |
| sec-Butylbenzene |  | ND |  | 3.9 |
| tert-Butylbenzene |  | ND |  | 3.9 |
| Carbon disulfide |  | ND |  | 3.9 |
| Carbon tetrachloride |  | ND |  | 3.9 |
| Chlorobenzene |  | ND |  | 3.9 |
| Chloroethane |  | ND |  | 7.7 |
| Chloroform |  | ND |  | 3.9 |
| Chloromethane |  | ND |  | 7.7 |
| 2-Chlorotoluene |  | ND |  | 3.9 |
| 4-Chlorotoluene |  | ND |  | 3.9 |
| Chlorodibromomethane |  | ND |  | 3.9 |
| 1,2-Dichlorobenzene |  | ND |  | 3.9 |
| 1,3-Dichlorobenzene |  | ND |  | 3.9 |
| 1,4-Dichlorobenzene |  | ND |  | 3.9 |
| 1,3-Dichloropropane |  | ND |  | 3.9 |
| 1,1-Dichloropropene |  | ND |  | 3.9 |
| 1,2-Dibromo-3-Chloropropane |  | ND |  | 3.9 |
| Ethylene Dibromide |  | ND |  | 3.9 |
| Dibromomethane |  | ND |  | 7.7 |
| Dichlorodifluoromethane |  | ND |  | 7.7 |
| 1,1-Dichloroethane |  | ND |  | 3.9 |
| 1,2-Dichloroethane |  | ND |  | 3.9 |
| 1,1-Dichloroethene |  | ND |  | 3.9 |
| cis-1,2-Dichloroethene |  | ND |  | 3.9 |
| trans-1,2-Dichloroethene |  | ND |  | 3.9 |
| 1,2-Dichloropropane |  | ND |  | 3.9 |
| cis-1,3-Dichloropropene |  | ND |  | 3.9 |
| trans-1,3-Dichloropropene |  | ND |  | 3.9 |
| Ethylbenzene |  | ND |  | 3.9 |
| Hexachlorobutadiene |  | ND |  | 3.9 |
| 2-Hexanone |  | ND |  | 39 |
| Isopropylbenzene |  | ND |  | 3.9 |
| 4-Isopropyltoluene |  | ND |  | 3.9 |
| Methylene Chloride |  | ND |  | 7.7 |
| 4-Methyl-2-pentanone (MIBK) |  | ND |  | 39 |
| Naphthalene |  | ND |  | 7.7 |

Client: Sigma Engineering, Inc.
Job Number: 720-23080-1

## Client Sample ID: MW2-15'

| Lab Sample ID: Client Matrix: | 720-23080-14 Solid |  | Date Sampled: 10/04 <br> Date Received: 10/06 |  |
| :---: | :---: | :---: | :---: | :---: |
| 8260B Volatile Organic Compounds (GC/MS) |  |  |  |  |
| Method: | 8260B | Analysis Batch: 720-59397 | Instrument ID: | HP12 |
| Preparation: | 5035 | Prep Batch: 720-59492 | Lab File ID: | 10130917.D |
| Dilution: | 1.0 |  | Initial Weight/Volume: | 6.46 g |
| Date Analyzed: | 10/13/2009 1649 |  | Final Weight/Volume: | 10 mL |
| Date Prepared: | 10/13/2009 0800 |  |  |  |


| Analyte DryWt Corrected: N | Result (ug/Kg) | Qualifier | RL |
| :---: | :---: | :---: | :---: |
| N-Propylbenzene | ND |  | 3.9 |
| Styrene | ND |  | 3.9 |
| 1,1,1,2-Tetrachloroethane | ND |  | 3.9 |
| 1,1,2,2-Tetrachloroethane | ND |  | 3.9 |
| Tetrachloroethene | ND |  | 3.9 |
| Toluene | ND |  | 3.9 |
| 1,2,3-Trichlorobenzene | ND |  | 3.9 |
| 1,2,4-Trichlorobenzene | ND |  | 3.9 |
| 1,1,1-Trichloroethane | ND |  | 3.9 |
| 1,1,2-Trichloroethane | ND |  | 3.9 |
| Trichloroethene | ND |  | 3.9 |
| Trichlorofluoromethane | ND |  | 3.9 |
| 1,2,3-Trichloropropane | ND |  | 3.9 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND |  | 3.9 |
| 1,2,4-Trimethylbenzene | ND |  | 3.9 |
| 1,3,5-Trimethylbenzene | ND |  | 3.9 |
| Vinyl acetate | ND |  | 39 |
| Vinyl chloride | ND |  | 3.9 |
| Xylenes, Total | ND |  | 7.7 |
| 2,2-Dichloropropane | ND |  | 3.9 |
| Gasoline Range Organics (GRO)-C5-C12 | ND |  | 190 |
| TBA | ND |  | 3.9 |
| DIPE | ND |  | 3.9 |
| TAME | ND |  | 3.9 |
| Ethyl t-butyl ether | ND |  | 3.9 |
| Surrogate | \%Rec | Qualifier | Acceptance Limits |
| 4-Bromofluorobenzene | 50 | X | 52-140 |
| 1,2-Dichloroethane-d4 (Surr) | 120 |  | 60-140 |
| Toluene-d8 (Surr) | 85 |  | 58-140 |

Client: Sigma Engineering, Inc.
Job Number: 720-23080-1

## Client Sample ID: B3-10'

| Lab Sample ID: <br> Client Matrix: | $720-23080-17$ <br> Solid |  | Date Sampled: 10/04 <br> Date Received: 10/06 |
| :--- | :--- | :--- | :--- | :--- |
|  |  | 8260B Volatile Organic Compounds (GC/MS) |  |

Date Prepared: 10/10/2009 1000

| Analyte | DryWt Corrected: N | Result (ug/Kg) | Qualifier | RL |
| :---: | :---: | :---: | :---: | :---: |
| Methyl tert-butyl ether |  | ND |  | 5.0 |
| Acetone |  | 73 |  | 50 |
| Benzene |  | ND |  | 5.0 |
| Dichlorobromomethane |  | ND |  | 5.0 |
| Bromobenzene |  | ND |  | 5.0 |
| Chlorobromomethane |  | ND |  | 20 |
| Bromoform |  | ND |  | 5.0 |
| Bromomethane |  | ND |  | 9.9 |
| 2-Butanone (MEK) |  | ND |  | 50 |
| n-Butylbenzene |  | ND |  | 5.0 |
| sec-Butylbenzene |  | ND |  | 5.0 |
| tert-Butylbenzene |  | ND |  | 5.0 |
| Carbon disulfide |  | ND |  | 5.0 |
| Carbon tetrachloride |  | ND |  | 5.0 |
| Chlorobenzene |  | ND |  | 5.0 |
| Chloroethane |  | ND |  | 9.9 |
| Chloroform |  | ND |  | 5.0 |
| Chloromethane |  | ND |  | 9.9 |
| 2-Chlorotoluene |  | ND |  | 5.0 |
| 4-Chlorotoluene |  | ND |  | 5.0 |
| Chlorodibromomethane |  | ND |  | 5.0 |
| 1,2-Dichlorobenzene |  | ND |  | 5.0 |
| 1,3-Dichlorobenzene |  | ND |  | 5.0 |
| 1,4-Dichlorobenzene |  | ND |  | 5.0 |
| 1,3-Dichloropropane |  | ND |  | 5.0 |
| 1,1-Dichloropropene |  | ND |  | 5.0 |
| 1,2-Dibromo-3-Chloropropane |  | ND |  | 5.0 |
| Ethylene Dibromide |  | ND |  | 5.0 |
| Dibromomethane |  | ND |  | 9.9 |
| Dichlorodifluoromethane |  | ND |  | 9.9 |
| 1,1-Dichloroethane |  | ND |  | 5.0 |
| 1,2-Dichloroethane |  | ND | * | 5.0 |
| 1,1-Dichloroethene |  | ND |  | 5.0 |
| cis-1,2-Dichloroethene |  | ND |  | 5.0 |
| trans-1,2-Dichloroethene |  | ND |  | 5.0 |
| 1,2-Dichloropropane |  | ND |  | 5.0 |
| cis-1,3-Dichloropropene |  | ND |  | 5.0 |
| trans-1,3-Dichloropropene |  | ND |  | 5.0 |
| Ethylbenzene |  | ND |  | 5.0 |
| Hexachlorobutadiene |  | ND |  | 5.0 |
| 2-Hexanone |  | ND |  | 50 |
| Isopropylbenzene |  | ND |  | 5.0 |
| 4-Isopropyltoluene |  | ND |  | 5.0 |
| Methylene Chloride |  | ND |  | 9.9 |
| 4-Methyl-2-pentanone (MIBK) |  | ND |  | 50 |
| Naphthalene |  | ND |  | 9.9 |

Client: Sigma Engineering, Inc.
Job Number: 720-23080-1
Client Sample ID: B3-10'

Lab Sample ID:
720-23080-17
Date Sampled: 10/04/2009 0800
Client Matrix:
Solid
Date Received: 10/06/2009 1834

| 8260B Volatile Organic Compounds (GC/MS) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Method: | 8260B | Analysis Batch: 720-59302 |  | Instrument ID: | HP12 |
| Preparation: | 5030B | Prep Batch: 720-59352 |  | Lab File ID: | 10100919.D |
| Dilution: | 1.0 |  |  | Initial Weight/Volume: | 5.03 g |
| Date Analyzed: | 10/10/2009 2059 |  |  | Final Weight/Volume: | 10 mL |
| Date Prepared: | 10/10/2009 1000 |  |  |  |  |
| Analyte | DryWt Corrected: N |  | Result (ug/Kg) | Qualifier |  | RL |
| N-Propylbenzen |  | ND |  |  | 5.0 |
| Styrene |  | ND |  |  | 5.0 |
| 1,1,1,2-Tetrach | hane | ND |  |  | 5.0 |
| 1,1,2,2-Tetrach | hane | ND |  |  | 5.0 |
| Tetrachloroethe |  | ND |  |  | 5.0 |
| Toluene |  | ND |  |  | 5.0 |
| 1,2,3-Trichlorob |  | ND |  |  | 5.0 |
| 1,2,4-Trichlorob |  | ND |  |  | 5.0 |
| 1,1,1-Trichloroe |  | ND |  |  | 5.0 |
| 1,1,2-Trichloroe |  | ND |  |  | 5.0 |
| Trichloroethene |  | ND |  |  | 5.0 |
| Trichlorofluorom |  | ND |  |  | 5.0 |
| 1,2,3-Trichlorop |  | ND |  |  | 5.0 |
| 1,1,2-Trichloro- | trifluoroethane | ND |  |  | 5.0 |
| 1,2,4-Trimethylb |  | ND |  |  | 5.0 |
| 1,3,5-Trimethylb |  | ND |  |  | 5.0 |
| Vinyl acetate |  | ND |  |  | 50 |
| Vinyl chloride |  | ND |  |  | 5.0 |
| Xylenes, Total |  | ND |  |  | 9.9 |
| 2,2-Dichloropro |  | ND |  |  | 5.0 |
| Gasoline Range | anics (GRO)-C5-C12 | ND |  |  | 250 |
| TBA |  | ND |  |  | 5.0 |
| DIPE |  | ND |  |  | 5.0 |
| TAME |  | ND |  |  | 5.0 |
| Ethyl t-butyl eth |  | ND |  |  | 5.0 |
| Surrogate |  | \%Rec | Qualifier | Accepta | Limits |
| 4-Bromofluorob |  | 101 |  | 52-130 |  |
| 1,2-Dichloroeth | 4 (Surr) | 114 |  | 67-132 |  |
| Toluene-d8 (Sur) |  | 101 |  | 58-130 |  |

Client: Sigma Engineering, Inc.
Job Number: 720-23080-1

## Client Sample ID: B4-10'

| Lab Sample ID: Client Matrix: | 720-23080-18 <br> Solid |  | Date Sampled: 10/04 <br> Date Received: 10/06 |  |
| :---: | :---: | :---: | :---: | :---: |
|  | 8260B Volatile Organic Compounds (GC/MS) |  |  |  |
| Method: | 8260B | Analysis Batch: 720-59302 | Instrument ID: | HP12 |
| Preparation: | 5030B | Prep Batch: 720-59352 | Lab File ID: | 10100920.D |
| Dilution: | 1.0 |  | Initial Weight/Volume: | 5.04 g |
| Date Analyzed: | 10/10/2009 2132 |  | Final Weight/Volume: | 10 mL |

Date Prepared: 10/10/2009 1000

| Analyte | DryWt Corrected: N | Result (ug/Kg) | Qualifier | RL |
| :---: | :---: | :---: | :---: | :---: |
| Methyl tert-butyl ether |  | ND |  | 5.0 |
| Acetone |  | ND |  | 50 |
| Benzene |  | ND |  | 5.0 |
| Dichlorobromomethane |  | ND |  | 5.0 |
| Bromobenzene |  | ND |  | 5.0 |
| Chlorobromomethane |  | ND |  | 20 |
| Bromoform |  | ND |  | 5.0 |
| Bromomethane |  | ND |  | 9.9 |
| 2-Butanone (MEK) |  | ND |  | 50 |
| n-Butylbenzene |  | ND |  | 5.0 |
| sec-Butylbenzene |  | ND |  | 5.0 |
| tert-Butylbenzene |  | ND |  | 5.0 |
| Carbon disulfide |  | ND |  | 5.0 |
| Carbon tetrachloride |  | ND |  | 5.0 |
| Chlorobenzene |  | ND |  | 5.0 |
| Chloroethane |  | ND |  | 9.9 |
| Chloroform |  | ND |  | 5.0 |
| Chloromethane |  | ND |  | 9.9 |
| 2-Chlorotoluene |  | ND |  | 5.0 |
| 4-Chlorotoluene |  | ND |  | 5.0 |
| Chlorodibromomethane |  | ND |  | 5.0 |
| 1,2-Dichlorobenzene |  | ND |  | 5.0 |
| 1,3-Dichlorobenzene |  | ND |  | 5.0 |
| 1,4-Dichlorobenzene |  | ND |  | 5.0 |
| 1,3-Dichloropropane |  | ND |  | 5.0 |
| 1,1-Dichloropropene |  | ND |  | 5.0 |
| 1,2-Dibromo-3-Chloropropane |  | ND |  | 5.0 |
| Ethylene Dibromide |  | ND |  | 5.0 |
| Dibromomethane |  | ND |  | 9.9 |
| Dichlorodifluoromethane |  | ND |  | 9.9 |
| 1,1-Dichloroethane |  | ND |  | 5.0 |
| 1,2-Dichloroethane |  | ND | * | 5.0 |
| 1,1-Dichloroethene |  | ND |  | 5.0 |
| cis-1,2-Dichloroethene |  | ND |  | 5.0 |
| trans-1,2-Dichloroethene |  | ND |  | 5.0 |
| 1,2-Dichloropropane |  | ND |  | 5.0 |
| cis-1,3-Dichloropropene |  | ND |  | 5.0 |
| trans-1,3-Dichloropropene |  | ND |  | 5.0 |
| Ethylbenzene |  | ND |  | 5.0 |
| Hexachlorobutadiene |  | ND |  | 5.0 |
| 2-Hexanone |  | ND |  | 50 |
| Isopropylbenzene |  | ND |  | 5.0 |
| 4-Isopropyltoluene |  | ND |  | 5.0 |
| Methylene Chloride |  | ND |  | 9.9 |
| 4-Methyl-2-pentanone (MIBK) |  | ND |  | 50 |
| Naphthalene |  | ND |  | 9.9 |

Client: Sigma Engineering, Inc.
Job Number: 720-23080-1
Client Sample ID: B4-10'

| Lab Sample ID: Client Matrix: | 720-23080-18 <br> Solid |  | Date Sampled: 10/04 <br> Date Received: 10/06 |  |
| :---: | :---: | :---: | :---: | :---: |
|  | 8260B Volatile Organic Compounds (GC/MS) |  |  |  |
| Method: | 8260B | Analysis Batch: 720-59302 | Instrument ID: | HP12 |
| Preparation: | 5030B | Prep Batch: 720-59352 | Lab File ID: | 10100920.D |
| Dilution: | 1.0 |  | Initial Weight/Volume: | 5.04 g |
| Date Analyzed: | 10/10/2009 2132 |  | Final Weight/Volume: | 10 mL |

Date Prepared: 10/10/2009 1000

| Analyte DryWt Corrected: N | Result (ug/Kg) | Qualifier | RL |  |
| :---: | :---: | :---: | :---: | :---: |
| N-Propylbenzene | ND |  | 5.0 | 0 |
| Styrene | ND |  | 5.0 | 0 |
| 1,1,1,2-Tetrachloroethane | ND |  | 5.0 | 0 |
| 1,1,2,2-Tetrachloroethane | ND |  | 5.0 | 0 |
| Tetrachloroethene | ND |  | 5.0 | 0 |
| Toluene | ND |  | 5.0 | 0 |
| 1,2,3-Trichlorobenzene | ND |  | 5.0 | 0 |
| 1,2,4-Trichlorobenzene | ND |  | 5.0 | 0 |
| 1,1,1-Trichloroethane | ND |  | 5.0 | 0 |
| 1,1,2-Trichloroethane | ND |  | 5.0 | 0 |
| Trichloroethene | ND |  | 5.0 | 0 |
| Trichlorofluoromethane | ND |  | 5.0 | 0 |
| 1,2,3-Trichloropropane | ND |  | 5.0 | 0 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND |  | 5.0 | 0 |
| 1,2,4-Trimethylbenzene | ND |  | 5.0 | 0 |
| 1,3,5-Trimethylbenzene | ND |  | 5.0 | 0 |
| Vinyl acetate | ND |  | 50 |  |
| Vinyl chloride | ND |  | 5.0 | 0 |
| Xylenes, Total | ND |  | 9.9 | 9 |
| 2,2-Dichloropropane | ND |  | 5.0 | 0 |
| Gasoline Range Organics (GRO)-C5-C12 | ND |  | 250 | 50 |
| TBA | ND |  | 5.0 | 0 |
| DIPE | ND |  | 5.0 | 0 |
| TAME | ND |  | 5.0 | 0 |
| Ethyl t-butyl ether | ND |  | 5.0 | 0 |
| Surrogate | \%Rec | Qualifier | Acceptance Limits |  |
| 4-Bromofluorobenzene | 101 |  | 52-130 |  |
| 1,2-Dichloroethane-d4 (Surr) | 113 |  | 67-132 |  |
| Toluene-d8 (Surr) | 101 |  | 58-130 |  |

Client: Sigma Engineering, Inc.
Job Number: 720-23080-1
Client Sample ID: B5-10'

| Lab Sample ID: <br> Client Matrix: | $720-23080-20$ <br> Solid |  | Date Sampled: 10/04 <br> Date Received: 10/06/20 |
| :--- | :--- | :--- | :--- | :--- |
|  |  | 8260B Volatile Organic Compounds (GC/MS) |  |

Date Prepared: 10/10/2009 1000

| Analyte | DryWt Corrected: N | Result (ug/Kg) | Qualifier | RL |
| :---: | :---: | :---: | :---: | :---: |
| Methyl tert-butyl ether |  | ND |  | 4.2 |
| Acetone |  | ND |  | 42 |
| Benzene |  | ND |  | 4.2 |
| Dichlorobromomethane |  | ND |  | 4.2 |
| Bromobenzene |  | ND |  | 4.2 |
| Chlorobromomethane |  | ND |  | 17 |
| Bromoform |  | ND |  | 4.2 |
| Bromomethane |  | ND |  | 8.4 |
| 2-Butanone (MEK) |  | ND |  | 42 |
| n-Butylbenzene |  | ND |  | 4.2 |
| sec-Butylbenzene |  | ND |  | 4.2 |
| tert-Butylbenzene |  | ND |  | 4.2 |
| Carbon disulfide |  | ND |  | 4.2 |
| Carbon tetrachloride |  | ND |  | 4.2 |
| Chlorobenzene |  | ND |  | 4.2 |
| Chloroethane |  | ND |  | 8.4 |
| Chloroform |  | ND |  | 4.2 |
| Chloromethane |  | ND |  | 8.4 |
| 2-Chlorotoluene |  | ND |  | 4.2 |
| 4-Chlorotoluene |  | ND |  | 4.2 |
| Chlorodibromomethane |  | ND |  | 4.2 |
| 1,2-Dichlorobenzene |  | ND |  | 4.2 |
| 1,3-Dichlorobenzene |  | ND |  | 4.2 |
| 1,4-Dichlorobenzene |  | ND |  | 4.2 |
| 1,3-Dichloropropane |  | ND |  | 4.2 |
| 1,1-Dichloropropene |  | ND |  | 4.2 |
| 1,2-Dibromo-3-Chloropropane |  | ND |  | 4.2 |
| Ethylene Dibromide |  | ND |  | 4.2 |
| Dibromomethane |  | ND |  | 8.4 |
| Dichlorodifluoromethane |  | ND |  | 8.4 |
| 1,1-Dichloroethane |  | ND |  | 4.2 |
| 1,2-Dichloroethane |  | ND | * | 4.2 |
| 1,1-Dichloroethene |  | ND |  | 4.2 |
| cis-1,2-Dichloroethene |  | ND |  | 4.2 |
| trans-1,2-Dichloroethene |  | ND |  | 4.2 |
| 1,2-Dichloropropane |  | ND |  | 4.2 |
| cis-1,3-Dichloropropene |  | ND |  | 4.2 |
| trans-1,3-Dichloropropene |  | ND |  | 4.2 |
| Ethylbenzene |  | ND |  | 4.2 |
| Hexachlorobutadiene |  | ND |  | 4.2 |
| 2-Hexanone |  | ND |  | 42 |
| Isopropylbenzene |  | ND |  | 4.2 |
| 4-Isopropyltoluene |  | ND |  | 4.2 |
| Methylene Chloride |  | ND |  | 8.4 |
| 4-Methyl-2-pentanone (MIBK) |  | ND |  | 42 |
| Naphthalene |  | ND |  | 8.4 |

Client: Sigma Engineering, Inc.
Job Number: 720-23080-1

| Client Sample ID: | B5-10' |  |
| :--- | :--- | :--- |
| Lab Sample ID: | $720-23080-20$ | Date Sampled: 10/04/2009 0830 |
| Client Matrix: | Solid | Date Received: 10/06/2009 1834 |


| 8260B Volatile Organic Compounds (GC/MS) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Method: | 8260B | Analysis Batch: 720-59302 |  | Instrument ID: | HP12 |
| Preparation: | 5030B | Prep Batch: 720-59352 |  | Lab File ID: | 10100921.D |
| Dilution: | 1.0 |  |  | Initial Weight/Volume: | 5.96 g |
| Date Analyzed: | 10/10/2009 2206 |  |  | Final Weight/Volume: | 10 mL |
| Date Prepared: | 10/10/2009 1000 |  |  |  |  |
| Analyte | DryWt Corrected: N | Result (ug/Kg) | Qualifier |  | RL |
| N-Propylbenzen |  | ND |  |  | 4.2 |
| Styrene |  | ND |  |  | 4.2 |
| 1,1,1,2-Tetrach | hane | ND |  |  | 4.2 |
| 1,1,2,2-Tetrach | hane | ND |  |  | 4.2 |
| Tetrachloroethe |  | ND |  |  | 4.2 |
| Toluene |  | ND |  |  | 4.2 |
| 1,2,3-Trichlorob |  | ND |  |  | 4.2 |
| 1,2,4-Trichlorob |  | ND |  |  | 4.2 |
| 1,1,1-Trichloroe |  | ND |  |  | 4.2 |
| 1,1,2-Trichloroe |  | ND |  |  | 4.2 |
| Trichloroethene |  | ND |  |  | 4.2 |
| Trichlorofluorom |  | ND |  |  | 4.2 |
| 1,2,3-Trichlorop |  | ND |  |  | 4.2 |
| 1,1,2-Trichloro- | trifluoroethane | ND |  |  | 4.2 |
| 1,2,4-Trimethyl |  | ND |  |  | 4.2 |
| 1,3,5-Trimethylb |  | ND |  |  | 4.2 |
| Vinyl acetate |  | ND |  |  | 42 |
| Vinyl chloride |  | ND |  |  | 4.2 |
| Xylenes, Total |  | ND |  |  | 8.4 |
| 2,2-Dichloropro |  | ND |  |  | 4.2 |
| Gasoline Range | anics (GRO)-C5-C12 | ND |  |  | 210 |
| TBA |  | ND |  |  | 4.2 |
| DIPE |  | ND |  |  | 4.2 |
| TAME |  | ND |  |  | 4.2 |
| Ethyl t-butyl eth |  | ND |  |  | 4.2 |
| Surrogate |  | \%Rec | Qualifier | r Accepta | Limits |
| 4-Bromofluorobenzene |  | 99 |  | 52-130 |  |
| 1,2-Dichloroethane-d4 (Surr) |  | 109 |  | 67-132 |  |
| Toluene-d8 (Surr) |  | 101 |  | 58-130 |  |

Client: Sigma Engineering, Inc.
Job Number: 720-23080-1

## Client Sample ID: $\quad$ B6-10'

Lab Sample ID:
Client Matrix:
720-23080-21
Date Sampled: 10/04/2009 0000
Solid
Date Received: 10/06/2009 1834

## 8260B Volatile Organic Compounds (GC/MS)

| Method: | 8260B | Analysis Batch: 720-59302 | Instrument ID: | HP12 |
| :--- | :--- | :--- | :--- | :--- |
| Preparation: | 5030B | Prep Batch: $720-59352$ | Lab File ID: | 10100922.D |
| Dilution: | 1.0 |  | Initial Weight/Volume: | 5.19 g |
| Date Analyzed: | $10 / 10 / 20092238$ |  | Final Weight/Volume: | 10 mL |
| Date Prepared: | $10 / 10 / 20091000$ |  |  |  |


| Analyte | DryWt Corrected: N | Result (ug/Kg) | Qualifier | RL |
| :---: | :---: | :---: | :---: | :---: |
| Methyl tert-butyl ether |  | ND |  | 4.8 |
| Acetone |  | ND |  | 48 |
| Benzene |  | ND |  | 4.8 |
| Dichlorobromomethane |  | ND |  | 4.8 |
| Bromobenzene |  | ND |  | 4.8 |
| Chlorobromomethane |  | ND |  | 19 |
| Bromoform |  | ND |  | 4.8 |
| Bromomethane |  | ND |  | 9.6 |
| 2-Butanone (MEK) |  | ND |  | 48 |
| n-Butylbenzene |  | ND |  | 4.8 |
| sec-Butylbenzene |  | ND |  | 4.8 |
| tert-Butylbenzene |  | ND |  | 4.8 |
| Carbon disulfide |  | ND |  | 4.8 |
| Carbon tetrachloride |  | ND |  | 4.8 |
| Chlorobenzene |  | ND |  | 4.8 |
| Chloroethane |  | ND |  | 9.6 |
| Chloroform |  | ND |  | 4.8 |
| Chloromethane |  | ND |  | 9.6 |
| 2-Chlorotoluene |  | ND |  | 4.8 |
| 4-Chlorotoluene |  | ND |  | 4.8 |
| Chlorodibromomethane |  | ND |  | 4.8 |
| 1,2-Dichlorobenzene |  | ND |  | 4.8 |
| 1,3-Dichlorobenzene |  | ND |  | 4.8 |
| 1,4-Dichlorobenzene |  | ND |  | 4.8 |
| 1,3-Dichloropropane |  | ND |  | 4.8 |
| 1,1-Dichloropropene |  | ND |  | 4.8 |
| 1,2-Dibromo-3-Chloropropane |  | ND |  | 4.8 |
| Ethylene Dibromide |  | ND |  | 4.8 |
| Dibromomethane |  | ND |  | 9.6 |
| Dichlorodifluoromethane |  | ND |  | 9.6 |
| 1,1-Dichloroethane |  | ND |  | 4.8 |
| 1,2-Dichloroethane |  | ND | * | 4.8 |
| 1,1-Dichloroethene |  | ND |  | 4.8 |
| cis-1,2-Dichloroethene |  | ND |  | 4.8 |
| trans-1,2-Dichloroethene |  | ND |  | 4.8 |
| 1,2-Dichloropropane |  | ND |  | 4.8 |
| cis-1,3-Dichloropropene |  | ND |  | 4.8 |
| trans-1,3-Dichloropropene |  | ND |  | 4.8 |
| Ethylbenzene |  | ND |  | 4.8 |
| Hexachlorobutadiene |  | ND |  | 4.8 |
| 2-Hexanone |  | ND |  | 48 |
| Isopropylbenzene |  | ND |  | 4.8 |
| 4-Isopropyltoluene |  | ND |  | 4.8 |
| Methylene Chloride |  | ND |  | 9.6 |
| 4-Methyl-2-pentanone (MIBK) |  | ND |  | 48 |
| Naphthalene |  | ND |  | 9.6 |

Client: Sigma Engineering, Inc.
Job Number: 720-23080-1

## Client Sample ID: $\quad$ B6-10'

Lab Sample ID:
720-23080-21
Date Sampled: 10/04/2009 0000
Client Matrix:
Solid
Date Received: 10/06/2009 1834

| 8260B Volatile Organic Compounds (GC/MS) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Method: | 8260B |  |  | Instrument ID: HP12 |  |
| Preparation: | 5030B | Analysis Batch: 720-59302 <br> Prep Batch: 720-59352 |  | Lab File ID: | 10100922.D |
| Dilution: | 1.0 |  |  | Initial Weight/Volume: | 5.19 g |
| Date Analyzed: | 10/10/2009 2238 |  |  | Final Weight/Volume: | 10 mL |
| Date Prepared: 10/10/2009 1000 |  |  |  |  |  |
| Analyte | DryWt Corrected: N | Result (ug/Kg) | Qualifier |  | RL |
| N-Propylbenzen |  | ND |  |  | 4.8 |
| Styrene |  | ND |  |  | 4.8 |
| 1,1,1,2-Tetrach | hane | ND |  |  | 4.8 |
| 1,1,2,2-Tetrach | hane | ND |  |  | 4.8 |
| Tetrachloroethe |  | ND |  |  | 4.8 |
| Toluene |  | ND |  |  | 4.8 |
| 1,2,3-Trichlorob |  | ND |  |  | 4.8 |
| 1,2,4-Trichlorob |  | ND |  |  | 4.8 |
| 1,1,1-Trichloroe |  | ND |  |  | 4.8 |
| 1,1,2-Trichloroe |  | ND |  |  | 4.8 |
| Trichloroethene |  | ND |  |  | 4.8 |
| Trichlorofluoron |  | ND |  |  | 4.8 |
| 1,2,3-Trichlorop |  | ND |  |  | 4.8 |
| 1,1,2-Trichloro- | -trifluoroethane | ND |  |  | 4.8 |
| 1,2,4-Trimethylb |  | ND |  |  | 4.8 |
| 1,3,5-Trimethylb |  | ND |  |  | 4.8 |
| Vinyl acetate |  | ND |  |  | 48 |
| Vinyl chloride |  | ND |  |  | 4.8 |
| Xylenes, Total |  | ND |  |  | 9.6 |
| 2,2-Dichloropro |  | ND |  |  | 4.8 |
| Gasoline Range | anics (GRO)-C5-C12 | ND |  |  | 240 |
| TBA |  | ND |  |  | 4.8 |
| DIPE |  | ND |  |  | 4.8 |
| TAME |  | ND |  |  | 4.8 |
| Ethyl t-butyl eth |  | ND |  |  | 4.8 |
| Surrogate |  | \%Rec | Qualifier | Acceptance Limits |  |
| 4-Bromofluorobenzene |  | 97 |  | 52-130 |  |
| 1,2-Dichloroethane-d4 (Surr) |  | 110 |  | 67-132 |  |
| Toluene-d8 (Surr) |  | 100 |  | 58-130 |  |

Client: Sigma Engineering, Inc.
Job Number: 720-23080-1

## Client Sample ID: $\quad$ B7-10'

| Lab Sample ID: <br> Client Matrix: | 720-23080-23 <br> Solid |  | Date Sampled: 10/06 <br> Date Received: $10 / 06$ |
| :--- | :--- | :--- | :--- | :--- |
|  |  | 8260B Volatile Organic Compounds (GC/MS) |  |

Date Prepared: 10/12/2009 0800

| Analyte | DryWt Corrected: N | Result (ug/Kg) | Qualifier | RL |
| :---: | :---: | :---: | :---: | :---: |
| Methyl tert-butyl ether |  | ND |  | 4.6 |
| Acetone |  | ND |  | 46 |
| Benzene |  | ND |  | 4.6 |
| Dichlorobromomethane |  | ND |  | 4.6 |
| Bromobenzene |  | ND |  | 4.6 |
| Chlorobromomethane |  | ND |  | 19 |
| Bromoform |  | ND |  | 4.6 |
| Bromomethane |  | ND |  | 9.3 |
| 2-Butanone (MEK) |  | ND |  | 46 |
| n-Butylbenzene |  | ND |  | 4.6 |
| sec-Butylbenzene |  | ND |  | 4.6 |
| tert-Butylbenzene |  | ND |  | 4.6 |
| Carbon disulfide |  | ND |  | 4.6 |
| Carbon tetrachloride |  | ND |  | 4.6 |
| Chlorobenzene |  | ND |  | 4.6 |
| Chloroethane |  | ND |  | 9.3 |
| Chloroform |  | ND |  | 4.6 |
| Chloromethane |  | ND |  | 9.3 |
| 2-Chlorotoluene |  | ND |  | 4.6 |
| 4-Chlorotoluene |  | ND |  | 4.6 |
| Chlorodibromomethane |  | ND |  | 4.6 |
| 1,2-Dichlorobenzene |  | ND |  | 4.6 |
| 1,3-Dichlorobenzene |  | ND |  | 4.6 |
| 1,4-Dichlorobenzene |  | ND |  | 4.6 |
| 1,3-Dichloropropane |  | ND |  | 4.6 |
| 1,1-Dichloropropene |  | ND |  | 4.6 |
| 1,2-Dibromo-3-Chloropropane |  | ND |  | 4.6 |
| Ethylene Dibromide |  | ND |  | 4.6 |
| Dibromomethane |  | ND |  | 9.3 |
| Dichlorodifluoromethane |  | ND |  | 9.3 |
| 1,1-Dichloroethane |  | ND |  | 4.6 |
| 1,2-Dichloroethane |  | ND |  | 4.6 |
| 1,1-Dichloroethene |  | ND |  | 4.6 |
| cis-1,2-Dichloroethene |  | ND |  | 4.6 |
| trans-1,2-Dichloroethene |  | ND |  | 4.6 |
| 1,2-Dichloropropane |  | ND |  | 4.6 |
| cis-1,3-Dichloropropene |  | ND |  | 4.6 |
| trans-1,3-Dichloropropene |  | ND |  | 4.6 |
| Ethylbenzene |  | ND |  | 4.6 |
| Hexachlorobutadiene |  | ND |  | 4.6 |
| 2-Hexanone |  | ND |  | 46 |
| Isopropylbenzene |  | ND |  | 4.6 |
| 4-Isopropyltoluene |  | ND |  | 4.6 |
| Methylene Chloride |  | ND |  | 9.3 |
| 4-Methyl-2-pentanone (MIBK) |  | ND |  | 46 |
| Naphthalene |  | ND |  | 9.3 |

Client: Sigma Engineering, Inc.
Job Number: 720-23080-1
Client Sample ID: B7-10'

Lab Sample ID: 720-23080-23
Date Sampled: 10/06/2009 0905
Client Matrix:
Solid
Date Received: 10/06/2009 1834

| 8260B Volatile Organic Compounds (GC/MS) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Method: | 8260B | Analysis Batch: 720-59384 |  | Instrument ID: | HP12 |
| Preparation: | 5030B | Prep Batch: 720-59432 |  | Lab File ID: | 10120931.D |
| Dilution: | 1.0 |  |  | Initial Weight/Volume: | 5.38 g |
| Date Analyzed: | 10/13/2009 0212 |  |  | Final Weight/Volume: | 10 mL |
| Date Prepared: | 10/12/2009 0800 |  |  |  |  |
| Analyte | DryWt Corrected: N |  | Result (ug/Kg) | Qualifier |  | RL |
| N-Propylbenzen |  | ND |  |  | 4.6 |
| Styrene |  | ND |  |  | 4.6 |
| 1,1,1,2-Tetrach | hane | ND |  |  | 4.6 |
| 1,1,2,2-Tetrach | hane | ND |  |  | 4.6 |
| Tetrachloroethe |  | ND |  |  | 4.6 |
| Toluene |  | ND |  |  | 4.6 |
| 1,2,3-Trichlorob |  | ND |  |  | 4.6 |
| 1,2,4-Trichlorob |  | ND |  |  | 4.6 |
| 1,1,1-Trichloroe |  | ND |  |  | 4.6 |
| 1,1,2-Trichloroe |  | ND |  |  | 4.6 |
| Trichloroethene |  | ND |  |  | 4.6 |
| Trichlorofluorom |  | ND |  |  | 4.6 |
| 1,2,3-Trichlorop |  | ND |  |  | 4.6 |
| 1,1,2-Trichloro- | -trifluoroethane | ND |  |  | 4.6 |
| 1,2,4-Trimethylb |  | ND |  |  | 4.6 |
| 1,3,5-Trimethylb |  | ND |  |  | 4.6 |
| Vinyl acetate |  | ND |  |  | 46 |
| Vinyl chloride |  | ND |  |  | 4.6 |
| Xylenes, Total |  | ND |  |  | 9.3 |
| 2,2-Dichloropro |  | ND |  |  | 4.6 |
| Gasoline Range | anics (GRO)-C5-C12 | ND |  |  | 230 |
| TBA |  | ND |  |  | 4.6 |
| DIPE |  | ND |  |  | 4.6 |
| TAME |  | ND |  |  | 4.6 |
| Ethyl t-butyl eth |  | ND |  |  | 4.6 |
| Surrogate |  | \%Rec | Qualifier | Acceptan | Limits |
| 4-Bromofluorob |  | 97 |  | 52-140 |  |
| 1,2-Dichloroeth | 4 (Surr) | 112 |  | 60-140 |  |
| Toluene-d8 (Surr) |  | 99 |  | 58-140 |  |

Client: Sigma Engineering, Inc.
Job Number: 720-23080-1

## Client Sample ID: $\quad$ B8-10'

Lab Sample ID:
720-23080-24
Date Sampled: 10/06/2009 0715
Client Matrix:
Solid
Date Received: 10/06/2009 1834

## 8260B Volatile Organic Compounds (GC/MS)

| Method: | 8260 B | Analysis Batch: $720-59384$ | Instrument ID: | HP12 |
| :--- | :--- | :--- | :--- | :--- |
| Preparation: | 5030 B | Prep Batch: $720-59432$ | Lab File ID: | 10120927.D |
| Dilution: | 1.0 |  | Initial Weight/Volume: | 5.34 g |
| Date Analyzed: | $10 / 12 / 20092359$ |  | Final Weight/Volume: | 10 mL |
| Date Prepared: | $10 / 12 / 20090800$ |  |  |  |


| Analyte | DryWt Corrected: N | Result (ug/Kg) | Qualifier | RL |
| :---: | :---: | :---: | :---: | :---: |
| Methyl tert-butyl ether |  | ND |  | 4.7 |
| Acetone |  | ND |  | 47 |
| Benzene |  | ND |  | 4.7 |
| Dichlorobromomethane |  | ND |  | 4.7 |
| Bromobenzene |  | ND |  | 4.7 |
| Chlorobromomethane |  | ND |  | 19 |
| Bromoform |  | ND |  | 4.7 |
| Bromomethane |  | ND |  | 9.4 |
| 2-Butanone (MEK) |  | 59 |  | 47 |
| n-Butylbenzene |  | ND |  | 4.7 |
| sec-Butylbenzene |  | ND |  | 4.7 |
| tert-Butylbenzene |  | ND |  | 4.7 |
| Carbon disulfide |  | ND |  | 4.7 |
| Carbon tetrachloride |  | ND |  | 4.7 |
| Chlorobenzene |  | ND |  | 4.7 |
| Chloroethane |  | ND |  | 9.4 |
| Chloroform |  | ND |  | 4.7 |
| Chloromethane |  | ND |  | 9.4 |
| 2-Chlorotoluene |  | ND |  | 4.7 |
| 4-Chlorotoluene |  | ND |  | 4.7 |
| Chlorodibromomethane |  | ND |  | 4.7 |
| 1,2-Dichlorobenzene |  | ND |  | 4.7 |
| 1,3-Dichlorobenzene |  | ND |  | 4.7 |
| 1,4-Dichlorobenzene |  | ND |  | 4.7 |
| 1,3-Dichloropropane |  | ND |  | 4.7 |
| 1,1-Dichloropropene |  | ND |  | 4.7 |
| 1,2-Dibromo-3-Chloropropane |  | ND |  | 4.7 |
| Ethylene Dibromide |  | ND |  | 4.7 |
| Dibromomethane |  | ND |  | 9.4 |
| Dichlorodifluoromethane |  | ND |  | 9.4 |
| 1,1-Dichloroethane |  | ND |  | 4.7 |
| 1,2-Dichloroethane |  | ND |  | 4.7 |
| 1,1-Dichloroethene |  | ND |  | 4.7 |
| cis-1,2-Dichloroethene |  | ND |  | 4.7 |
| trans-1,2-Dichloroethene |  | ND |  | 4.7 |
| 1,2-Dichloropropane |  | ND |  | 4.7 |
| cis-1,3-Dichloropropene |  | ND |  | 4.7 |
| trans-1,3-Dichloropropene |  | ND |  | 4.7 |
| Ethylbenzene |  | ND |  | 4.7 |
| Hexachlorobutadiene |  | ND |  | 4.7 |
| 2-Hexanone |  | ND |  | 47 |
| Isopropylbenzene |  | ND |  | 4.7 |
| 4-Isopropyltoluene |  | ND |  | 4.7 |
| Methylene Chloride |  | ND |  | 9.4 |
| 4-Methyl-2-pentanone (MIBK) |  | ND |  | 47 |
| Naphthalene |  | ND |  | 9.4 |

Client: Sigma Engineering, Inc.
Job Number: 720-23080-1

## Client Sample ID: B8-10'

Lab Sample ID:
720-23080-24
Date Sampled: 10/06/2009 0715
Client Matrix:
Solid
Date Received: 10/06/2009 1834

| 8260B Volatile Organic Compounds (GC/MS) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Method: | 8260B | Analysis Batch: 720-59384 |  | Instrument ID: | HP12 |
| Preparation: | 5030B | Prep Batch: 720-59432 |  | Lab File ID: | 10120927.D |
| Dilution: | 1.0 |  |  | Initial Weight/Volume: | 5.34 g |
| Date Analyzed: | 10/12/2009 2359 |  |  | Final Weight/Volume: | 10 mL |
| Date Prepared: | 10/12/2009 0800 |  |  |  |  |
| Analyte | DryWt Corrected: N |  | Result (ug/Kg) | Qualifier |  | RL |
| N-Propylbenzen |  | ND |  |  | 4.7 |
| Styrene |  | ND |  |  | 4.7 |
| 1,1,1,2-Tetrach | hane | ND |  |  | 4.7 |
| 1,1,2,2-Tetrach | hane | ND |  |  | 4.7 |
| Tetrachloroethe |  | ND |  |  | 4.7 |
| Toluene |  | ND |  |  | 4.7 |
| 1,2,3-Trichlorob |  | ND |  |  | 4.7 |
| 1,2,4-Trichlorob |  | ND |  |  | 4.7 |
| 1,1,1-Trichloroe |  | ND |  |  | 4.7 |
| 1,1,2-Trichloroe |  | ND |  |  | 4.7 |
| Trichloroethene |  | ND |  |  | 4.7 |
| Trichlorofluorom |  | ND |  |  | 4.7 |
| 1,2,3-Trichlorop |  | ND |  |  | 4.7 |
| 1,1,2-Trichloro- | trifluoroethane | ND |  |  | 4.7 |
| 1,2,4-Trimethylb |  | ND |  |  | 4.7 |
| 1,3,5-Trimethylb |  | ND |  |  | 4.7 |
| Vinyl acetate |  | ND |  |  | 47 |
| Vinyl chloride |  | ND |  |  | 4.7 |
| Xylenes, Total |  | ND |  |  | 9.4 |
| 2,2-Dichloropro |  | ND |  |  | 4.7 |
| Gasoline Range | anics (GRO)-C5-C12 | ND |  |  | 230 |
| TBA |  | ND |  |  | 4.7 |
| DIPE |  | ND |  |  | 4.7 |
| TAME |  | ND |  |  | 4.7 |
| Ethyl t-butyl eth |  | ND |  |  | 4.7 |
| Surrogate |  | \%Rec | Qualifier | Accepta | Limits |
| 4-Bromofluorob |  | 103 |  | 52-140 |  |
| 1,2-Dichloroeth | 4 (Surr) | 120 |  | 60-140 |  |
| Toluene-d8 (Sur) |  | 101 |  | 58-140 |  |

Client Sample ID: B1-10'

| Lab Sample ID: | $720-23080-1$ | Date Sampled: 10/05/2009 0715 |
| :--- | :--- | :--- |
| Client Matrix: | Solid | Date Received: 10/06/2009 1834 |

## 8015B Diesel Range Organics (DRO) (GC)

| Method: | 8015B | Analysis Batch: $720-59305$ | Instrument ID: | CHDRO6 |
| :--- | :--- | :--- | :--- | :--- |
| Preparation: | 3550 B | Prep Batch: $720-59312$ | Initial Weight/Volume: | 30.26 g |
| Dilution: | 1.0 |  | Final Weight/Volume: | 5 mL |
| Date Analyzed: | 10/10/2009 1712 |  | Injection Volume: | 1 uL |
| Date Prepared: | 10/10/2009 0854 |  | Result Type: | PRIMARY |


| DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
| :--- | :--- | :--- | :--- |
| Analyte | ND |  | 0.99 |
| Diesel Range Organics [C10-C28] | ND |  | 50 |
| Motor Oil Range Organics [C24-C36] |  |  |  |
|  | \%Rec | 76 | Qualifier |

Client: Sigma Engineering, Inc.
Client Sample ID: B1-22'

| Lab Sample ID: | $720-23080-4$ | Date Sampled: 10/05/2009 0000 |
| :--- | :--- | :--- |
| Client Matrix: | Solid | Date Received: 10/06/2009 1834 |

## 8015B Diesel Range Organics (DRO) (GC)

| Method: | 8015B | Analysis Batch: $720-59307$ | Instrument ID: | CHDRO5 |
| :--- | :--- | :--- | :--- | :--- |
| Preparation: | 3550 B | Prep Batch: $720-59273$ | Initial Weight/Volume: | 30.04 g |
| Dilution: | 1.0 |  | Final Weight/Volume: | 5 mL |
| Date Analyzed: | $10 / 10 / 20091156$ |  | Injection Volume: | 1 uL |
| Date Prepared: | $10 / 09 / 20091224$ |  | Result Type: | PRIMARY |


| DryWt Corrected: N | Result $(\mathrm{mg} / \mathrm{Kg})$ | Qualifier | RL |
| :--- | :--- | :--- | :--- |
| Analyte | 3.3 |  | 1.0 |
| Diesel Range Organics [C10-C28] | ND |  | 50 |
| Motor Oil Range Organics [C24-C36] |  |  |  |
|  | \%Rec | 86 | Qualifier |

Client Sample ID: B2-10'

| Lab Sample ID: | $720-23080-5$ | Date Sampled: 10/05/2009 0000 |
| :--- | :--- | :--- |
| Client Matrix: | Solid | Date Received: 10/06/2009 1834 |

8015B Diesel Range Organics (DRO) (GC)

| Method: | 8015B | Analysis Batch: 720-59307 | Instrument ID: | CHDRO5 |
| :---: | :---: | :---: | :---: | :---: |
| Preparation: | 3550B | Prep Batch: 720-59273 | Initial Weight/Volume: | 30.30 |
| Dilution: | 1.0 |  | Final Weight/Volume: | 5 mL |
| Date Analyzed: | 10/10/2009 1223 |  | Injection Volume: | 1 uL |
| Date Prepared: | 10/09/2009 1224 |  | Result Type: | PRIMARY |


| DryWt Corrected: N | Result $(\mathrm{mg} / \mathrm{Kg})$ | Qualifier | RL |
| :--- | :--- | :--- | :--- |
| Analyte | ND |  | 0.99 |
| Diesel Range Organics [C10-C28] | ND |  | 50 |
| Motor Oil Range Organics [C24-C36] |  |  |  |
|  |  | \%Rec | Qualifier |

Client: Sigma Engineering, Inc.
Client Sample ID: B2-23'

| Lab Sample ID: | $720-23080-6$ | Date Sampled: 10/05/2009 0000 |
| :--- | :--- | :--- |
| Client Matrix: | Solid | Date Received: 10/06/2009 1834 |

8015B Diesel Range Organics (DRO) (GC)

| Method: | 8015B | Analysis Batch: 720-59307 | Instrument ID: | CHDRO5 |
| :---: | :---: | :---: | :---: | :---: |
| Preparation: | 3550B | Prep Batch: 720-59273 | Initial Weight/Volume: | 30.12 |
| Dilution: | 1.0 |  | Final Weight/Volume: | 5 mL |
| Date Analyzed: | 10/10/2009 1249 |  | Injection Volume: | 1 uL |
| Date Prepared: | 10/09/2009 1224 |  | Result Type: | PRIMARY |


| DryWt Corrected: N | Result $(\mathrm{mg} / \mathrm{Kg})$ | Qualifier | RL |
| :--- | :--- | :--- | :--- |
| Analyte | 35 |  | 1.0 |
| Diesel Range Organics [C10-C28] | ND |  | 50 |
| Motor Oil Range Organics [C24-C36] |  |  |  |
|  | \%Rec | Qualifier | Acceptance Limits |
| Surrogate | 90 | $31-114$ |  |

Client: Sigma Engineering, Inc.


Client: Sigma Engineering, Inc.

| Client Sample ID: | MW4-15' |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Lab Sample ID: | 720-23080-8 |  | Date Sampled: 10/05/2009 0000 |  |  |
| Client Matrix: | Solid |  | Date Received: 10/06/2009 1834 |  |  |
| 8015B Diesel Range Organics (DRO) (GC) |  |  |  |  |  |
| Method: | 8015B | Analysis Batch: 720-59307 |  | Instrument ID: | CHDRO5 |
| Preparation: | 3550B | Prep Batch: 720-59273 |  | Initial Weight/Volume: | 30.28 g |
| Dilution: | 1.0 |  |  | Final Weight/Volume: | 5 mL |
| Date Analyzed: | 10/10/2009 2214 |  |  | Injection Volume: | 1 uL |
| Date Prepared: | 10/09/2009 1451 |  |  | Result Type: | PRIMARY |
| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier |  | RL |
| Diesel Range Organics [C10-C28] |  | ND |  |  | 0.99 |
| Motor Oil Range Organics [C24-C36] |  | ND |  |  | 50 |
| Surrogate |  | \%Rec | Qualifier | Acceptance Limits |  |
| p-Terphenyl |  | 84 |  | 31-114 |  |




Client: Sigma Engineering, Inc.

Client Sample ID: MW2-15'
Lab Sample ID: 720-23080-14

Client Matrix:
Solid
Date Received: 10/06/2009 1834

## 8015B Diesel Range Organics (DRO) (GC)

| Method: | 8015B | Analysis Batch: 720-59305 | Instrument ID: | CHDRO6 |
| :--- | :--- | :--- | :--- | :--- |
| Preparation: | 3550 B | Prep Batch: $720-59312$ | Initial Weight/Volume: | 30.31 g |
| Dilution: | 1.0 |  | Final Weight/Volume: | 5 mL |
| Date Analyzed: | $10 / 10 / 20091817$ |  | Injection Volume: | 1 uL |
| Date Prepared: | $10 / 10 / 2009$ | 0854 |  | Result Type: |


| DryWt Corrected: N | Result $(\mathrm{mg} / \mathrm{Kg})$ | Qualifier | RL |
| :--- | :--- | :--- | :--- |
| Analyte | 7.8 |  | 0.99 |
| Diesel Range Organics [C10-C28] | ND |  | 49 |
| Motor Oil Range Organics [C24-C36] |  |  |  |
|  | \%Rec | 81 | Qualifier |

Client: Sigma Engineering, Inc.
Client Sample ID: B3-10'

Lab Sample ID: 720-23080-17
Date Sampled: 10/04/2009 0800
Client Matrix:
Solid
Date Received: 10/06/2009 1834

| 8015B Diesel Range Organics (DRO) (GC) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Method: | 8015B | Analysis Batch: 720-59305 |  | Instrument ID: | CHDRO6 |
| Preparation: | 3550B | Prep Batch: 720-59312 |  | Initial Weight/Volume: | 30.42 g |
| Dilution: | 1.0 |  |  | Final Weight/Volume: | 5 mL |
| Date Analyzed: | 10/10/2009 1838 |  |  | Injection Volume: | 1 uL |
| Date Prepared: | 10/10/2009 0854 |  |  | Result Type: | PRIMARY |
| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier |  | RL |
| Diesel Range O | cs [C10-C28] | ND |  |  | 0.99 |
| Motor Oil Range | anics [C24-C36] | ND |  |  | 49 |
| Surrogate |  | \%Rec | Qualifier | Accepta | Limits |
| p-Terphenyl |  | 79 |  | 31-114 |  |

Client: Sigma Engineering, Inc.
Client Sample ID: B4-10'

| Lab Sample ID: | $720-23080-18$ | Date Sampled: 10/04/2009 0645 |
| :--- | :--- | :--- |
| Client Matrix: | Solid | Date Received: 10/06/2009 1834 |

8015B Diesel Range Organics (DRO) (GC)

| Method: | 8015B | Analysis Batch: 720-59305 | Instrument ID: | CHDRO6 |
| :--- | :--- | :--- | :--- | :--- |
| Preparation: | 3550 B | Prep Batch: 720-59312 | Initial Weight/Volume: | 30.07 g |
| Dilution: | 1.0 |  | Final Weight/Volume: | 5 mL |
| Date Analyzed: | $10 / 10 / 20091900$ |  | Injection Volume: | 1 uL |
| Date Prepared: | $10 / 10 / 2009$ | 0854 |  | Result Type: |


| DryWt Corrected: N | Result $(\mathrm{mg} / \mathrm{Kg})$ | Qualifier | RL |
| :--- | :--- | :--- | :--- |
| Analyte | ND |  | 1.0 |
| Diesel Range Organics [C10-C28] | ND |  | 50 |
| Motor Oil Range Organics [C24-C36] |  |  |  |
|  | \%Rec | Qualifier | Acceptance Limits |
| Surrogate | 73 | $31-114$ |  |

Client Sample ID: B5-10'
Lab Sample ID: 720-23080-2

Client Matrix:
Solid
Date Received: 10/06/2009 1834

Client Sample ID: B6-10'
Lab Sample ID: 720-23080-2

Client Matrix:
Solid
Date Received: 10/06/2009 1834


Client: Sigma Engineering, Inc.

| Client Sample ID: | B7-10' |  |
| :--- | :--- | :--- |
| Lab Sample ID: $720-23080-23$ Date Sampled: 10/06/2009 0905 <br> Client Matrix: Solid Date Received: 10/06/2009 1834 |  |  |

## 8015B Diesel Range Organics (DRO) (GC)

| Method: | 8015B | Analysis Batch: $720-59305$ | Instrument ID: | CHDRO6 |
| :--- | :--- | :--- | :--- | :--- |
| Preparation: | 3550 B | Prep Batch: 720-59312 | Initial Weight/Volume: | 30.05 g |
| Dilution: | 1.0 |  | Final Weight/Volume: | 5 mL |
| Date Analyzed: | 10/10/2009 2005 |  | Injection Volume: | 1 uL |
| Date Prepared: | 10/10/2009 0854 |  | Result Type: | PRIMARY |


| DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
| :--- | :--- | :--- | :--- |
| Analyte | ND |  | 1.0 |
| Diesel Range Organics [C10-C28] | ND |  | 50 |
| Motor Oil Range Organics [C24-C36] |  |  |  |
|  | \%Rec | Qualifier | Acceptance Limits |
| Surrogate | 78 | $31-114$ |  |

Client Sample ID: B8-10'
Lab Sample ID: 720-23080-24

Client Matrix:
Solid
Date Received: 10/06/2009 1834

| 8015B Diesel Range Organics (DRO) (GC) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Method: | 8015B | Analysis Batch: 720-59305 |  | Instrument ID: | CHDRO6 |
| Preparation: | 3550B | Prep Batch: 720-59312 |  | Initial Weight/Volume: | 30.29 g |
| Dilution: | 1.0 |  |  | Final Weight/Volume: | 5 mL |
| Date Analyzed: | 10/10/2009 2027 |  |  | Injection Volume: | 1 uL |
| Date Prepared: | 10/10/2009 0907 |  |  | Result Type: | PRIMARY |
| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier |  | RL |
| Diesel Range Organics [C10-C28] |  | 1.5 |  |  | 0.99 |
| Motor Oil Range Organics [C24-C36] |  | ND |  |  | 50 |
| Surrogate |  | \%Rec | Qualifier | - Acceptan | Limits |
| p-Terphenyl |  | 86 |  | 31-114 |  |

## DATA REPORTING QUALIFIERS

Client: Sigma Engineering, Inc.
Job Number: 720-23080-1

## Lab Section

Qualifier
Description

GC/MS VOA

| * | LCS or LCSD exceeds the control limits |
| :--- | :--- |
| F | MS or MSD exceeds the control limits |
| F | RPD of the MS and MSD exceeds the control limits |
| X | Surrogate exceeds the control limits |

## Quality Control Results

Client: Sigma Engineering, Inc.
Job Number: 720-23080-1

## QC Association Summary

|  | Report |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Lab Sample ID | Client Sample ID | Basis | Client Matrix | Method | Prep Batch |

## GC/MS VOA

| Analysis Batch:720-59302 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| LCS 720-59352/2-A | Lab Control Sample | T | Solid | 8260B | 720-59352 |
| LCS 720-59352/4-A | Lab Control Sample | T | Solid | 8260B | 720-59352 |
| LCSD 720-59352/3-A | Lab Control Sample Duplicate | T | Solid | 8260B | 720-59352 |
| LCSD 720-59352/5-A | Lab Control Sample Duplicate | T | Solid | 8260B | 720-59352 |
| MB 720-59352/6-A | Method Blank | T | Solid | 8260B | 720-59352 |
| 720-23080-1 | B1-10' | T | Solid | 8260B | 720-59352 |
| 720-23080-1MS | Matrix Spike | T | Solid | 8260B | 720-59352 |
| 720-23080-1MSD | Matrix Spike Duplicate | T | Solid | 8260B | 720-59352 |
| 720-23080-4 | B1-22' | T | Solid | 8260B | 720-59352 |
| 720-23080-5 | B2-10' | T | Solid | 8260B | 720-59352 |
| 720-23080-17 | B3-10' | T | Solid | 8260B | 720-59352 |
| 720-23080-18 | B4-10' | T | Solid | 8260B | 720-59352 |
| 720-23080-20 | B5-10' | T | Solid | 8260B | 720-59352 |
| 720-23080-21 | B6-10' | T | Solid | 8260B | 720-59352 |
| Prep Batch: 720-59352 |  |  |  |  |  |
| LCS 720-59352/2-A | Lab Control Sample | T | Solid | 5030B |  |
| LCS 720-59352/4-A | Lab Control Sample | T | Solid | 5030B |  |
| LCSD 720-59352/3-A | Lab Control Sample Duplicate | T | Solid | 5030B |  |
| LCSD 720-59352/5-A | Lab Control Sample Duplicate | T | Solid | 5030B |  |
| MB 720-59352/6-A | Method Blank | T | Solid | 5030B |  |
| 720-23080-1 | B1-10' | T | Solid | 5030B |  |
| 720-23080-1MS | Matrix Spike | T | Solid | 5030B |  |
| 720-23080-1MSD | Matrix Spike Duplicate | T | Solid | 5030B |  |
| 720-23080-4 | B1-22' | T | Solid | 5030B |  |
| 720-23080-5 | B2-10' | T | Solid | 5030B |  |
| 720-23080-17 | B3-10' | T | Solid | 5030B |  |
| 720-23080-18 | B4-10' | T | Solid | 5030B |  |
| 720-23080-20 | B5-10' | T | Solid | 5030B |  |
| 720-23080-21 | B6-10' | T | Solid | 5030B |  |
| Analysis Batch:720-59384 |  |  |  |  |  |
| LCS 720-59432/1-A | Lab Control Sample | T | Solid | 8260B | 720-59432 |
| LCS 720-59432/4-A | Lab Control Sample | T | Solid | 8260B | 720-59432 |
| LCSD 720-59432/2-A | Lab Control Sample Duplicate | T | Solid | 8260B | 720-59432 |
| LCSD 720-59432/5-A | Lab Control Sample Duplicate | T | Solid | 8260B | 720-59432 |
| MB 720-59432/3-A | Method Blank | T | Solid | 8260B | 720-59432 |
| 720-23080-6 | B2-23' | T | Solid | 8260B | 720-59432 |
| 720-23080-23 | B7-10' | T | Solid | 8260B | 720-59432 |
| 720-23080-24 | B8-10' | T | Solid | 8260B | 720-59432 |
| 720-23080-24MS | Matrix Spike | T | Solid | 8260B | 720-59432 |
| 720-23080-24MSD | Matrix Spike Duplicate | T | Solid | 8260B | 720-59432 |

## Quality Control Results

Client: Sigma Engineering, Inc.
Job Number: 720-23080-1

## QC Association Summary

|  |  | Report |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Lab Sample ID | Client Sample ID | Basis | Client Matrix | Method | Prep Batch |

## GC/MS VOA

| Analysis Batch:720-59397 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| LCS 720-59492/4-A | Lab Control Sample | T | Solid | 8260B | 720-59492 |
| LCSD 720-59492/5-A | Lab Control Sample Duplicate | T | Solid | 8260B | 720-59492 |
| MB 720-59492/1-A | Method Blank | T | Solid | 8260B | 720-59492 |
| 720-23080-7 | MW4-10' | T | Solid | 8260B | 720-59492 |
| 720-23080-8 | MW4-15' | T | Solid | 8260B | 720-59492 |
| 720-23080-10 | MW3-10' | T | Solid | 8260B | 720-59492 |
| 720-23080-11 | MW3-15' | T | Solid | 8260B | 720-59492 |
| 720-23080-13 | MW2-10' | T | Solid | 8260B | 720-59492 |
| 720-23080-14 | MW2-15' | T | Solid | 8260B | 720-59492 |
| Prep Batch: 720-59432 |  |  |  |  |  |
| LCS 720-59432/1-A | Lab Control Sample | T | Solid | 5030B |  |
| LCS 720-59432/4-A | Lab Control Sample | T | Solid | 5030B |  |
| LCSD 720-59432/2-A | Lab Control Sample Duplicate | T | Solid | 5030B |  |
| LCSD 720-59432/5-A | Lab Control Sample Duplicate | T | Solid | 5030B |  |
| MB 720-59432/3-A | Method Blank | T | Solid | 5030B |  |
| 720-23080-6 | B2-23' | T | Solid | 5030B |  |
| 720-23080-23 | B7-10' | T | Solid | 5030B |  |
| 720-23080-24 | B8-10' | T | Solid | 5030B |  |
| 720-23080-24MS | Matrix Spike | T | Solid | 5030B |  |
| 720-23080-24MSD | Matrix Spike Duplicate | T | Solid | 5030B |  |
| Prep Batch: 720-59492 |  |  |  |  |  |
| LCS 720-59492/4-A | Lab Control Sample | T | Solid | 5035 |  |
| LCSD 720-59492/5-A | Lab Control Sample Duplicate | T | Solid | 5035 |  |
| MB 720-59492/1-A | Method Blank | T | Solid | 5035 |  |
| 720-23080-7 | MW4-10' | T | Solid | 5035 |  |
| 720-23080-8 | MW4-15' | T | Solid | 5035 |  |
| 720-23080-10 | MW3-10' | T | Solid | 5035 |  |
| 720-23080-11 | MW3-15' | T | Solid | 5035 |  |
| 720-23080-13 | MW2-10' | T | Solid | 5035 |  |
| 720-23080-14 | MW2-15' | T | Solid | 5035 |  |

## Report Basis

T = Total

## Quality Control Results

Client: Sigma Engineering, Inc.
Job Number: 720-23080-1

## QC Association Summary

| Lab Sample ID | Client Sample ID | Repor <br> Basis | Client Matrix | Method | Prep Batch |
| :---: | :---: | :---: | :---: | :---: | :---: |
| GC Semi VOA |  |  |  |  |  |
| Prep Batch: 720-59273 |  |  |  |  |  |
| LCS 720-59273/2-A | Lab Control Sample | T | Solid | 3550B |  |
| LCSD 720-59273/3-A | Lab Control Sample Duplicate | T | Solid | 3550B |  |
| MB 720-59273/1-A | Method Blank | T | Solid | 3550B |  |
| 720-23080-4 | B1-22' | T | Solid | 3550B |  |
| 720-23080-5 | B2-10' | T | Solid | 3550B |  |
| 720-23080-6 | B2-23' | T | Solid | 3550B |  |
| 720-23080-7 | MW4-10' | T | Solid | 3550B |  |
| 720-23080-8 | MW4-15' | T | Solid | 3550B |  |
| 720-23080-11 | MW3-15' | T | Solid | 3550B |  |
| Analysis Batch:720-59305 |  |  |  |  |  |
| LCS 720-59312/2-B | Lab Control Sample | T | Solid | 8015B | 720-59312 |
| LCSD 720-59312/3-B | Lab Control Sample Duplicate | T | Solid | 8015B | 720-59312 |
| MB 720-59312/1-B | Method Blank | T | Solid | 8015B | 720-59312 |
| 720-23080-1 | B1-10' | T | Solid | 8015B | 720-59312 |
| 720-23080-1MS | Matrix Spike | T | Solid | 8015B | 720-59312 |
| 720-23080-1MSD | Matrix Spike Duplicate | T | Solid | 8015B | 720-59312 |
| 720-23080-10 | MW3-10' | T | Solid | 8015B | 720-59312 |
| 720-23080-13 | MW2-10' | T | Solid | 8015B | 720-59312 |
| 720-23080-14 | MW2-15' | T | Solid | 8015B | 720-59312 |
| 720-23080-17 | B3-10' | T | Solid | 8015B | 720-59312 |
| 720-23080-18 | B4-10' | T | Solid | 8015B | 720-59312 |
| 720-23080-20 | B5-10' | T | Solid | 8015B | 720-59312 |
| 720-23080-21 | B6-10' | T | Solid | 8015B | 720-59312 |
| 720-23080-23 | B7-10' | T | Solid | 8015B | 720-59312 |
| 720-23080-24 | B8-10' | T | Solid | 8015B | 720-59312 |
| Analysis Batch:720-59307 |  |  |  |  |  |
| LCS 720-59273/2-A | Lab Control Sample | T | Solid | 8015B | 720-59273 |
| LCSD 720-59273/3-A | Lab Control Sample Duplicate | T | Solid | 8015B | 720-59273 |
| MB 720-59273/1-A | Method Blank | T | Solid | 8015B | 720-59273 |
| 720-23080-4 | B1-22' | T | Solid | 8015B | 720-59273 |
| 720-23080-5 | B2-10' | T | Solid | 8015B | 720-59273 |
| 720-23080-6 | B2-23' | T | Solid | 8015B | 720-59273 |
| 720-23080-7 | MW4-10' | T | Solid | 8015B | 720-59273 |
| 720-23080-8 | MW4-15' | T | Solid | 8015B | 720-59273 |
| 720-23080-11 | MW3-15' | T | Solid | 8015B | 720-59273 |

## Quality Control Results

Client: Sigma Engineering, Inc.
Job Number: 720-23080-1

## QC Association Summary

| Lab Sample ID | Client Sample ID | Report Basis | Client Matrix | Method | Prep Batch |
| :---: | :---: | :---: | :---: | :---: | :---: |
| GC Semi VOA |  |  |  |  |  |
| Prep Batch: 720-59312 |  |  |  |  |  |
| LCS 720-59312/2-B | Lab Control Sample | T | Solid | 3550B |  |
| LCSD 720-59312/3-B | Lab Control Sample Duplicate | T | Solid | 3550B |  |
| MB 720-59312/1-B | Method Blank | T | Solid | 3550B |  |
| 720-23080-1 | B1-10' | T | Solid | 3550B |  |
| 720-23080-1MS | Matrix Spike | T | Solid | 3550B |  |
| 720-23080-1MSD | Matrix Spike Duplicate | T | Solid | 3550B |  |
| 720-23080-10 | MW3-10' | T | Solid | 3550B |  |
| 720-23080-13 | MW2-10' | T | Solid | 3550B |  |
| 720-23080-14 | MW2-15' | T | Solid | 3550B |  |
| 720-23080-17 | B3-10' | T | Solid | 3550B |  |
| 720-23080-18 | B4-10' | T | Solid | 3550B |  |
| 720-23080-20 | B5-10' | T | Solid | 3550B |  |
| 720-23080-21 | B6-10' | T | Solid | 3550B |  |
| 720-23080-23 | B7-10' | T | Solid | 3550B |  |
| 720-23080-24 | B8-10' | T | Solid | 3550B |  |

Report Basis
T = Total

## Method Blank - Batch: 720-59352

| Lab Sample ID: | MB 720-59352/6-A | Analysis Batch: $720-59302$ |
| :--- | :--- | :--- |
| Client Matrix: | Solid | Prep Batch: 720-59352 |
| Dilution: | 1.0 | Units: ug/Kg |
| Date Analyzed: | $10 / 10 / 20091447$ |  |

Method: 8260B
Preparation: 5030B

| Analyte | Result | Qual | RL |
| :---: | :---: | :---: | :---: |
| Methyl tert-butyl ether | ND |  | 5.0 |
| Acetone | ND |  | 50 |
| Benzene | ND |  | 5.0 |
| Dichlorobromomethane | ND |  | 5.0 |
| Bromobenzene | ND |  | 5.0 |
| Chlorobromomethane | ND |  | 20 |
| Bromoform | ND |  | 5.0 |
| Bromomethane | ND |  | 10 |
| 2-Butanone (MEK) | ND |  | 50 |
| n-Butylbenzene | ND |  | 5.0 |
| sec-Butylbenzene | ND |  | 5.0 |
| tert-Butylbenzene | ND |  | 5.0 |
| Carbon disulfide | ND |  | 5.0 |
| Carbon tetrachloride | ND |  | 5.0 |
| Chlorobenzene | ND |  | 5.0 |
| Chloroethane | ND |  | 10 |
| Chloroform | ND |  | 5.0 |
| Chloromethane | ND |  | 10 |
| 2-Chlorotoluene | ND |  | 5.0 |
| 4-Chlorotoluene | ND |  | 5.0 |
| Chlorodibromomethane | ND |  | 5.0 |
| 1,2-Dichlorobenzene | ND |  | 5.0 |
| 1,3-Dichlorobenzene | ND |  | 5.0 |
| 1,4-Dichlorobenzene | ND |  | 5.0 |
| 1,3-Dichloropropane | ND |  | 5.0 |
| 1,1-Dichloropropene | ND |  | 5.0 |
| 1,2-Dibromo-3-Chloropropane | ND |  | 5.0 |
| Ethylene Dibromide | ND |  | 5.0 |
| Dibromomethane | ND |  | 10 |
| Dichlorodifluoromethane | ND |  | 10 |
| 1,1-Dichloroethane | ND |  | 5.0 |
| 1,2-Dichloroethane | ND |  | 5.0 |
| 1,1-Dichloroethene | ND |  | 5.0 |
| cis-1,2-Dichloroethene | ND |  | 5.0 |
| trans-1,2-Dichloroethene | ND |  | 5.0 |
| 1,2-Dichloropropane | ND |  | 5.0 |
| cis-1,3-Dichloropropene | ND |  | 5.0 |
| trans-1,3-Dichloropropene | ND |  | 5.0 |
| Ethylbenzene | ND |  | 5.0 |
| Hexachlorobutadiene | ND |  | 5.0 |
| 2-Hexanone | ND |  | 50 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Sigma Engineering, Inc.
Job Number: 720-23080-1

## Method Blank - Batch: 720-59352

| Lab Sample ID: | MB 720-59352/6-A | Analysis Batch: 720-59302 | Instrument ID: Chenstation 3 |
| :--- | :--- | :--- | :--- |
| Client Matrix: | Solid | Prep Batch: 720-59352 | Lab File ID: 10100908.D |
| Dilution: | 1.0 | Units: ug/Kg | Initial Weight/Volume: 5 g |
| Date Analyzed: | $10 / 10 / 20091447$ |  | Final Weight/Volume: 10 mL |
| Date Prepared: | $10 / 10 / 20091000$ |  |  |


| Analyte | Result | Qual |  | RL |
| :---: | :---: | :---: | :---: | :---: |
| Isopropylbenzene | ND |  |  | 5.0 |
| 4-Isopropyltoluene | ND |  |  | 5.0 |
| Methylene Chloride | ND |  |  | 10 |
| 4-Methyl-2-pentanone (MIBK) | ND |  |  | 50 |
| Naphthalene | ND |  |  | 10 |
| N-Propylbenzene | ND |  |  | 5.0 |
| Styrene | ND |  |  | 5.0 |
| 1,1,1,2-Tetrachloroethane | ND |  |  | 5.0 |
| 1,1,2,2-Tetrachloroethane | ND |  |  | 5.0 |
| Tetrachloroethene | ND |  |  | 5.0 |
| Toluene | ND |  |  | 5.0 |
| 1,2,3-Trichlorobenzene | ND |  |  | 5.0 |
| 1,2,4-Trichlorobenzene | ND |  |  | 5.0 |
| 1,1,1-Trichloroethane | ND |  |  | 5.0 |
| 1,1,2-Trichloroethane | ND |  |  | 5.0 |
| Trichloroethene | ND |  |  | 5.0 |
| Trichlorofluoromethane | ND |  |  | 5.0 |
| 1,2,3-Trichloropropane | ND |  |  | 5.0 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND |  |  | 5.0 |
| 1,2,4-Trimethylbenzene | ND |  |  | 5.0 |
| 1,3,5-Trimethylbenzene | ND |  |  | 5.0 |
| Vinyl acetate | ND |  |  | 50 |
| Vinyl chloride | ND |  |  | 5.0 |
| Xylenes, Total | ND |  |  | 10 |
| 2,2-Dichloropropane | ND |  |  | 5.0 |
| Gasoline Range Organics (GRO)-C5-C12 | ND |  |  | 250 |
| TBA | ND |  |  | 5.0 |
| DIPE | ND |  |  | 5.0 |
| TAME | ND |  |  | 5.0 |
| Ethyl t-butyl ether | ND |  |  | 5.0 |
| Surrogate | \% Rec |  | Acceptance Limits |  |
| 4-Bromofluorobenzene | 106 |  | 52-130 |  |
| 1,2-Dichloroethane-d4 (Surr) | 128 |  | 67-132 |  |
| Toluene-d8 (Surr) | 106 |  | 58-130 |  |

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-59352

Method: 8260B
Preparation: 5030B

| LCS Lab Sample ID: | LCS 720-59352/2-A |
| :--- | :--- |
| Client Matrix: | Solid |
| Dilution: | 1.0 |
| Date Analyzed: | $10 / 10 / 20091236$ |
| Date Prepared: | $10 / 10 / 20091000$ |

Analysis Batch: 720-59302
Prep Batch: 720-59352
Units: ug/Kg

| Instrument ID: |
| :--- |
| Chenstation 3 |
| Lab File ID: $\quad 10100904 . \mathrm{D}$ |
| Initial Weight/Volume: $\quad 5 \mathrm{~g}$ |
| Final Weight/Volume: $\quad 10 \mathrm{~mL}$ |


| LCSD Lab Sample ID: | LCSD 720-59352/3-A |  |  |
| :--- | :--- | :--- | :--- |
| Client Matrix: | Solid |  |  |
| Dilution: | 1.0 |  |  |
| Date Analyzed: |  | $10 / 10 / 2009$ | 1309 |
| Date Prepared: |  | $10 / 10 / 2009$ | 1000 |

Analysis Batch: 720-59302
Prep Batch: 720-59352
Units: ug/Kg

Instrument ID: Chenstation 3
Lab File ID: 10100905.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 10 mL

| \% Rec. |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Analyte | LCS | LCSD | Limit | RPD | RPD Limit | LCS Qual | LCSD Qual |
| Methyl tert-butyl ether | 123 | 111 | 69-125 | 10 | 20 |  |  |
| Acetone | 124 | 109 | 37-150 | 12 | 20 |  |  |
| Benzene | 100 | 98 | 72-120 | 1 | 20 |  |  |
| Dichlorobromomethane | 122 | 116 | 64-135 | 5 | 20 |  |  |
| Bromobenzene | 98 | 97 | 77-121 | 1 | 20 |  |  |
| Chlorobromomethane | 103 | 98 | 65-128 | 5 | 20 |  |  |
| Bromoform | 118 | 108 | 58-132 | 9 | 20 |  |  |
| Bromomethane | 98 | 93 | 56-124 | 6 | 20 |  |  |
| 2-Butanone (MEK) | 130 | 111 | 41-150 | 16 | 20 |  |  |
| n-Butylbenzene | 110 | 110 | 60-145 | 0 | 20 |  |  |
| sec-Butylbenzene | 101 | 102 | 64-137 | 1 | 20 |  |  |
| tert-Butylbenzene | 101 | 103 | 63-134 | 1 | 20 |  |  |
| Carbon disulfide | 84 | 83 | 10-150 | 1 | 20 |  |  |
| Carbon tetrachloride | 108 | 110 | 54-141 | 1 | 20 |  |  |
| Chlorobenzene | 103 | 99 | 70-121 | 3 | 20 |  |  |
| Chloroethane | 103 | 94 | 61-125 | 9 | 20 |  |  |
| Chloroform | 109 | 107 | 67-125 | 2 | 20 |  |  |
| Chloromethane | 99 | 94 | 50-131 | 5 | 20 |  |  |
| 2-Chlorotoluene | 106 | 108 | 75-131 | 2 | 20 |  |  |
| 4-Chlorotoluene | 107 | 107 | 76-129 | 0 | 20 |  |  |
| Chlorodibromomethane | 123 | 116 | 60-140 | 5 | 20 |  |  |
| 1,2-Dichlorobenzene | 102 | 100 | 73-126 | 2 | 20 |  |  |
| 1,3-Dichlorobenzene | 100 | 99 | 73-128 | 0 | 20 |  |  |
| 1,4-Dichlorobenzene | 98 | 97 | 72-122 | 1 | 20 |  |  |
| 1,3-Dichloropropane | 118 | 110 | 74-127 | 6 | 20 |  |  |
| 1,1-Dichloropropene | 106 | 105 | 67-128 | 1 | 20 |  |  |
| 1,2-Dibromo-3-Chloropropane | 123 | 109 | 57-130 | 12 | 20 |  |  |
| Ethylene Dibromide | 114 | 105 | 66-135 | 8 | 20 |  |  |
| Dibromomethane | 116 | 109 | 65-131 | 7 | 20 |  |  |
| Dichlorodifluoromethane | 96 | 92 | 38-120 | 5 | 20 |  |  |
| 1,1-Dichloroethane | 107 | 105 | 67-126 | 2 | 20 |  |  |
| 1,2-Dichloroethane | 124 | 117 | 73-122 | 6 | 20 | * |  |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-59352

Method: 8260B
Preparation: 5030B

| LCS Lab Sample ID: | LCS 720-59352/2-A |
| :--- | :--- |
| Client Matrix: | Solid |
| Dilution: | 1.0 |
| Date Analyzed: | $10 / 10 / 20091236$ |
| Date Prepared: | $10 / 10 / 20091000$ |

Analysis Batch: 720-59302
Prep Batch: 720-59352
Units: ug/Kg

| Instrument ID: |
| :--- |
| Chenstation 3 |
| Lab File ID: $\quad 10100904 . \mathrm{D}$ |
| Initial Weight/Volume: $\quad 5 \mathrm{~g}$ |
| Final Weight/Volume: $\quad 10 \mathrm{~mL}$ |


| LCSD Lab Sample ID: | LCSD 720-59352/3-A |  |
| :--- | :--- | :--- |
| Client Matrix: | Solid |  |
| Dilution: | 1.0 |  |
| Date Analyzed: | $10 / 10 / 2009$ | 1309 |
| Date Prepared: |  | $10 / 10 / 2009$ |
|  |  | 1000 |

Analysis Batch: 720-59302
Prep Batch: 720-59352
Units: ug/Kg

Instrument ID: Chenstation 3
Lab File ID: 10100905.D Initial Weight/Volume: 5 g
Final Weight/Volume: 10 mL

| \% Rec. |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Analyte | LCS | LCSD | Limit | RPD | RPD Limit | LCS Qual | LCSD Qual |
| 1,1-Dichloroethene | 99 | 99 | 64-129 | 0 | 20 |  |  |
| cis-1,2-Dichloroethene | 109 | 106 | 68-131 | 3 | 20 |  |  |
| trans-1,2-Dichloroethene | 98 | 96 | 70-130 | 2 | 20 |  |  |
| 1,2-Dichloropropane | 107 | 103 | 65-133 | 4 | 20 |  |  |
| cis-1,3-Dichloropropene | 126 | 117 | 46-139 | 7 | 20 |  |  |
| trans-1,3-Dichloropropene | 128 | 118 | 55-131 | 8 | 20 |  |  |
| Ethylbenzene | 109 | 105 | 65-130 | 3 | 20 |  |  |
| Hexachlorobutadiene | 100 | 100 | 58-132 | 1 | 20 |  |  |
| 2-Hexanone | 132 | 112 | 44-150 | 17 | 20 |  |  |
| Isopropylbenzene | 91 | 90 | 65-130 | 1 | 20 |  |  |
| 4-Isopropyltoluene | 104 | 105 | 69-134 | 2 | 20 |  |  |
| Methylene Chloride | 100 | 94 | 63-129 | 7 | 20 |  |  |
| 4-Methyl-2-pentanone (MIBK) | 131 | 114 | 51-140 | 14 | 20 |  |  |
| Naphthalene | 115 | 108 | 45-146 | 7 | 20 |  |  |
| N-Propylbenzene | 103 | 104 | 71-130 | 1 | 20 |  |  |
| Styrene | 109 | 105 | 58-135 | 4 | 20 |  |  |
| 1,1,1,2-Tetrachloroethane | 111 | 108 | 64-133 | 3 | 20 |  |  |
| 1,1,2,2-Tetrachloroethane | 122 | 112 | 75-131 | 9 | 20 |  |  |
| Tetrachloroethene | 95 | 94 | 67-128 | 0 | 20 |  |  |
| Toluene | 100 | 98 | 72-120 | 2 | 20 |  |  |
| 1,2,3-Trichlorobenzene | 106 | 103 | 58-138 | 2 | 20 |  |  |
| 1,2,4-Trichlorobenzene | 101 | 97 | 49-144 | 4 | 20 |  |  |
| 1,1,1-Trichloroethane | 108 | 109 | 57-133 | 1 | 20 |  |  |
| 1,1,2-Trichloroethane | 120 | 111 | 68-132 | 8 | 20 |  |  |
| Trichloroethene | 95 | 93 | 66-125 | 2 | 20 |  |  |
| Trichlorofluoromethane | 104 | 105 | 61-127 | 1 | 20 |  |  |
| 1,2,3-Trichloropropane | 125 | 115 | 62-150 | 8 | 20 |  |  |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 91 | 91 | 52-126 | 1 | 20 |  |  |
| 1,2,4-Trimethylbenzene | 113 | 113 | 64-140 | 0 | 20 |  |  |
| 1,3,5-Trimethylbenzene | 107 | 108 | 67-134 | 0 | 20 |  |  |
| Vinyl acetate | 123 | 114 | 52-150 | 8 | 20 |  |  |
| Vinyl chloride | 100 | 100 | 62-120 | 0 | 20 |  |  |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Sigma Engineering, Inc.
Job Number: 720-23080-1

## Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 720-59352

Method: 8260B
Preparation: 5030B

| LCS Lab Sample ID: | LCS 720-59352/2-A | Analysis Batch: 720-59302 | Instrument ID: Chenstation 3 |
| :--- | :--- | :--- | :--- |
| Client Matrix: | Solid | Prep Batch: 720-59352 | Lab File ID: $10100904 . \mathrm{D}$ |
| Dilution: | 1.0 | Units: ug/Kg | Initial Weight/Volume: 5 g |
| Date Analyzed: | $10 / 10 / 20091236$ |  | Final Weight/Volume: 10 mL |

Date Prepared: 10/10/2009 1000

| LCSD Lab Sample ID: | LCSD 720-59352/3-A | Analysis Batch: 720-59302 | Instrument ID: Chenstation 3 |
| :--- | :--- | :--- | :--- |
| Client Matrix: | Solid | Prep Batch: 720-59352 | Lab File ID: 10100905.D |
| Dilution: | 1.0 | Units: ug/Kg | Initial Weight/Volume: 5 g |
| Date Analyzed: | $10 / 10 / 20091309$ |  | Final Weight/Volume: 10 mL |
| Date Prepared: | $10 / 10 / 20091000$ |  |  |


| \% Rec. |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Analyte | LCS | LCSD | Limit | RPD | RPD Limit | LCS Qual | LCSD Qual |
| 2,2-Dichloropropane | 116 | 115 | 63-130 | 1 | 20 |  |  |
| TBA | 90 | 91 | 70-130 | 0 | 20 |  |  |
| DIPE | 107 | 101 | 70-130 | 5 | 20 |  |  |
| TAME | 125 | 115 | 70-130 | 9 | 20 |  |  |
| Ethyl t-butyl ether | 111 | 103 | 70-130 | 8 | 20 |  |  |
| Surrogate | LCS \% Rec |  | LCSD \% Rec |  | Acceptance Limits |  |  |
| 4-Bromofluorobenzene | 112 |  | 107 |  | 52-130 |  |  |
| 1,2-Dichloroethane-d4 (Surr) | 127 |  | 119 |  | 67-132 |  |  |
| Toluene-d8 (Surr) | 106 |  | 108 |  | 58-130 |  |  |

Client: Sigma Engineering, Inc.
Job Number: 720-23080-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-59352

| LCS Lab Sample ID: | LCS 720-59352/4-A | Analysis Batch: 720-59302 | Instrument ID: Chenstation 3 |
| :--- | :--- | :--- | :--- |
| Client Matrix: | Solid | Prep Batch: 720-59352 | Lab File ID: |
| Dilution: | 1.0 | Units: ug/Kg | Initial Weight/Volume: 5 g |
| Date Analyzed: | $10 / 10 / 20091341$ |  | Final Weight/Volume: |


| LCSD Lab Sample ID: | LCSD 720-59352/5-A | Analysis Batch: 720-59302 | Instrument ID: Chenstation 3 |
| :--- | :--- | :--- | :--- |
| Client Matrix: | Solid | Prep Batch: 720-59352 | Lab File ID: 10100907.D |
| Dilution: | 1.0 | Units: ug/Kg | Initial Weight/Volume: 5 g |
| Date Analyzed: | $10 / 10 / 20091414$ |  | Final Weight/Volume: 10 mL |
| Date Prepared: | $10 / 10 / 20091000$ |  |  |


| \% Rec. |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Analyte | LCS | LCSD | Limit | RPD | RPD Limit | LCS Qual | LCSD Qual |
| Gasoline Range Organics (GRO)-C5-C12 | 96 | 99 | 70-130 | 3 | 20 |  |  |
| Surrogate | LCS \% Rec |  | LCSD \% Rec |  | Acceptance Limits |  |  |
| 4-Bromofluorobenzene | 111 |  | 110 |  | 52-130 |  |  |
| 1,2-Dichloroethane-d4 (Surr) | 124 |  | 124 |  | 67-132 |  |  |
| Toluene-d8 (Surr) | 107 |  | 108 |  | 58-130 |  |  |

Client: Sigma Engineering, Inc.
Job Number: 720-23080-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-59352

Method: 8260B
Preparation: 5030B

| MS Lab Sample ID: | $720-23080-1$ | Analysis Batch: 720-59302 |
| :--- | :--- | :--- |
| Client Matrix: | Solid | Prep Batch: 720-59352 |
| Dilution: | 1.0 |  |
| Date Analyzed: | $10 / 10 / 20091605$ |  |
| Date Prepared: | $10 / 10 / 20091000$ |  |


| Instrument ID: | Chenstation 3 |
| :--- | :--- |
| Lab File ID: | $10100910 . \mathrm{D}$ |
| Initial Weight/Volume: | 5.04 g |
| Final Weight/Volume: | 10 mL |


| MSD Lab Sample ID: | $720-23080-1$ | Analysis Batch: 720-59302 | Instrument ID: Chenstation 3 |
| :--- | :--- | :--- | :--- |
| Client Matrix: | Solid | Prep Batch: $720-59352$ | Lab File ID: |
| Dilution: | 1.0 |  | Initial Weight/Volume: 5.00 g |
| Date Analyzed: | $10 / 10 / 20091638$ |  | Final Weight/Volume: 10 mL |
| Date Prepared: | $10 / 10 / 20091000$ |  |  |


|  | \% Rec. |  |  |  |  | RPD Limit |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | MS Qual MSD Qual

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Sigma Engineering, Inc.
Job Number: 720-23080-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-59352

Method: 8260B
Preparation: 5030B

| MS Lab Sample ID: | $720-23080-1$ | Analysis Batch: 720-59302 |
| :--- | :--- | :--- |
| Client Matrix: | Solid | Prep Batch: 720-59352 |
| Dilution: | 1.0 |  |
| Date Analyzed: | $10 / 10 / 20091605$ |  |
| Date Prepared: | $10 / 10 / 20091000$ |  |


| Instrument ID: | Chenstation 3 |
| :--- | :--- |
| Lab File ID: | $10100910 . \mathrm{D}$ |
| Initial Weight/Volume: | 5.04 g |
| Final Weight/Volume: | 10 mL |


| MSD Lab Sample ID: | 720-23080-1 | Analysis Batch: 720-59302 | Instrument ID: Chenstation 3 |
| :--- | :--- | :--- | :--- |
| Client Matrix: | Solid | Prep Batch: 720-59352 | Lab File ID: $10100911 . \mathrm{D}$ |
| Dilution: | 1.0 |  | Initial Weight/Volume: 5.00 g |
| Date Analyzed: | $10 / 10 / 20091638$ |  | Final Weight/Volume: 10 mL |
| Date Prepared: | $10 / 10 / 20091000$ |  |  |


| \% Rec. |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Analyte | MS | MSD | Limit | RPD | RPD Limit | MS Qual | MSD Qual |
| Dichlorodifluoromethane | 101 | 99 | 38-130 | 1 | 20 |  |  |
| 1,1-Dichloroethane | 104 | 105 | 67-130 | 2 | 20 |  |  |
| 1,2-Dichloroethane | 113 | 116 | 70-130 | 3 | 20 |  |  |
| 1,1-Dichloroethene | 101 | 101 | 64-130 | 1 | 20 |  |  |
| cis-1,2-Dichloroethene | 105 | 106 | 68-131 | 2 | 20 |  |  |
| trans-1,2-Dichloroethene | 97 | 96 | 70-130 | 0 | 20 |  |  |
| 1,2-Dichloropropane | 101 | 101 | 65-133 | 1 | 20 |  |  |
| cis-1,3-Dichloropropene | 112 | 112 | 46-139 | 2 | 20 |  |  |
| trans-1,3-Dichloropropene | 113 | 115 | 55-131 | 3 | 20 |  |  |
| Ethylbenzene | 107 | 106 | 65-130 | 1 | 20 |  |  |
| Hexachlorobutadiene | 90 | 97 | 58-132 | 8 | 20 |  |  |
| 2-Hexanone | 106 | 113 | 44-150 | 7 | 20 |  |  |
| Isopropylbenzene | 92 | 91 | 65-130 | 0 | 20 |  |  |
| 4-Isopropyltoluene | 110 | 112 | 69-134 | 3 | 20 |  |  |
| Methylene Chloride | 92 | 91 | 63-130 | 0 | 20 |  |  |
| 4-Methyl-2-pentanone (MIBK) | 107 | 111 | 51-140 | 5 | 20 |  |  |
| Naphthalene | 91 | 98 | 45-146 | 8 | 20 |  |  |
| N-Propylbenzene | 109 | 110 | 70-130 | 2 | 20 |  |  |
| Styrene | 103 | 104 | 58-135 | 2 | 20 |  |  |
| 1,1,1,2-Tetrachloroethane | 105 | 109 | 64-133 | 4 | 20 |  |  |
| 1,1,2,2-Tetrachloroethane | 111 | 120 | 70-131 | 8 | 20 |  |  |
| Tetrachloroethene | 97 | 96 | 67-130 | 0 | 20 |  |  |
| Toluene | 99 | 100 | 70-130 | 1 | 20 |  |  |
| 1,2,3-Trichlorobenzene | 85 | 91 | 58-138 | 8 | 20 |  |  |
| 1,2,4-Trichlorobenzene | 85 | 87 | 49-144 | 3 | 20 |  |  |
| 1,1,1-Trichloroethane | 112 | 114 | 57-133 | 2 | 20 |  |  |
| 1,1,2-Trichloroethane | 107 | 109 | 68-132 | 2 | 20 |  |  |
| Trichloroethene | 95 | 97 | 66-130 | 2 | 20 |  |  |
| Trichlorofluoromethane | 108 | 108 | 61-130 | 2 | 20 |  |  |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Sigma Engineering, Inc.
Job Number: 720-23080-1

## Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 720-59352

Method: 8260B
Preparation: 5030B

| MS Lab Sample ID: | 720-23080-1 | Analysis Batch: 720-59302 | Instrument ID: Chenstation 3 <br> Lab File ID: 10100910.D |  |
| :---: | :---: | :---: | :---: | :---: |
| Client Matrix: | Solid | Prep Batch: 720-59352 |  |  |
| Dilution: | 1.0 |  | Initial Weight/Volume: | 5.04 g |
| Date Analyzed: | 10/10/2009 1605 |  | Final Weight/Volume: | 10 mL |
| Date Prepared: | 10/10/2009 1000 |  |  |  |
| MSD Lab Sample ID: | 720-23080-1 | Analysis Batch: 720-59302 | Instrument ID: Chens | ation 3 |
| Client Matrix: | Solid | Prep Batch: 720-59352 | Lab File ID: 10100 | 11.D |
| Dilution: | 1.0 |  | Initial Weight/Volume: | 5.00 g |
| Date Analyzed: | 10/10/2009 1638 |  | Final Weight/Volume: | 10 mL |
| Date Prepared: | 10/10/2009 1000 |  |  |  |


| \% Rec. |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Analyte | MS | MSD | Limit | RPD | RPD Limit | MS Qual | MSD Qual |
| 1,2,3-Trichloropropane | 113 | 119 | 62-150 | 7 | 20 |  |  |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 96 | 98 | 52-130 | 2 | 20 |  |  |
| 1,2,4-Trimethylbenzene | 114 | 115 | 64-140 | 2 | 20 |  |  |
| 1,3,5-Trimethylbenzene | 112 | 113 | 67-134 | 2 | 20 |  |  |
| Vinyl acetate | 37 | 25 | 52-150 | 35 | 20 | F | F |
| Vinyl chloride | 101 | 102 | 62-130 | 1 | 20 |  |  |
| 2,2-Dichloropropane | 117 | 118 | 63-130 | 1 | 20 |  |  |
| TBA | 91 | 97 | 70-130 | 8 | 20 |  |  |
| DIPE | 99 | 100 | 70-130 | 2 | 20 |  |  |
| TAME | 110 | 110 | 70-130 | 1 | 20 |  |  |
| Ethyl t-butyl ether | 99 | 100 | 70-130 | 1 | 20 |  |  |
| Surrogate |  | MS \% Rec |  |  |  | ance Limits |  |
| 4-Bromofluorobenzene |  | 111 |  |  |  | 130 |  |
| 1,2-Dichloroethane-d4 (Surr) |  | 120 |  |  |  | 132 |  |
| Toluene-d8 (Surr) |  | 111 |  |  |  | 130 |  |

## Method Blank - Batch: 720-59432

| Lab Sample ID: | MB 720-59432/3-A |  |
| :--- | :--- | :--- |
| Client Matrix: | Solid |  |
| Dilution: | 1.0 |  |
| Date Analyzed: | $10 / 12 / 20092253$ |  |
| Date Prepared: | $10 / 12 / 20090800$ |  |

Method: 8260B Preparation: 5030B

| Analyte | Result | Qual | RL |
| :---: | :---: | :---: | :---: |
| Methyl tert-butyl ether | ND |  | 5.0 |
| Acetone | ND |  | 50 |
| Benzene | ND |  | 5.0 |
| Dichlorobromomethane | ND |  | 5.0 |
| Bromobenzene | ND |  | 5.0 |
| Chlorobromomethane | ND |  | 20 |
| Bromoform | ND |  | 5.0 |
| Bromomethane | ND |  | 10 |
| 2-Butanone (MEK) | ND |  | 50 |
| n-Butylbenzene | ND |  | 5.0 |
| sec-Butylbenzene | ND |  | 5.0 |
| tert-Butylbenzene | ND |  | 5.0 |
| Carbon disulfide | ND |  | 5.0 |
| Carbon tetrachloride | ND |  | 5.0 |
| Chlorobenzene | ND |  | 5.0 |
| Chloroethane | ND |  | 10 |
| Chloroform | ND |  | 5.0 |
| Chloromethane | ND |  | 10 |
| 2-Chlorotoluene | ND |  | 5.0 |
| 4-Chlorotoluene | ND |  | 5.0 |
| Chlorodibromomethane | ND |  | 5.0 |
| 1,2-Dichlorobenzene | ND |  | 5.0 |
| 1,3-Dichlorobenzene | ND |  | 5.0 |
| 1,4-Dichlorobenzene | ND |  | 5.0 |
| 1,3-Dichloropropane | ND |  | 5.0 |
| 1,1-Dichloropropene | ND |  | 5.0 |
| 1,2-Dibromo-3-Chloropropane | ND |  | 5.0 |
| Ethylene Dibromide | ND |  | 5.0 |
| Dibromomethane | ND |  | 10 |
| Dichlorodifluoromethane | ND |  | 10 |
| 1,1-Dichloroethane | ND |  | 5.0 |
| 1,2-Dichloroethane | ND |  | 5.0 |
| 1,1-Dichloroethene | ND |  | 5.0 |
| cis-1,2-Dichloroethene | ND |  | 5.0 |
| trans-1,2-Dichloroethene | ND |  | 5.0 |
| 1,2-Dichloropropane | ND |  | 5.0 |
| cis-1,3-Dichloropropene | ND |  | 5.0 |
| trans-1,3-Dichloropropene | ND |  | 5.0 |
| Ethylbenzene | ND |  | 5.0 |
| Hexachlorobutadiene | ND |  | 5.0 |
| 2-Hexanone | ND |  | 50 |

Calculations are performed before rounding to avoid round-off errors in calculated results.
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Client: Sigma Engineering, Inc.
Job Number: 720-23080-1

## Method Blank - Batch: 720-59432

| Lab Sample ID: | MB 720-59432/3-A | Analysis Batch: 720-59384 | Instrument ID: Chenstation 3 |
| :--- | :--- | :--- | :--- |
| Client Matrix: | Solid | Prep Batch: 720-59432 | Lab File ID: 10120925.D |
| Dilution: | 1.0 | Units: ug/Kg | Initial Weight/Volume: 5 g |
| Date Analyzed: | $10 / 12 / 20092253$ |  | Final Weight/Volume: 10 mL |
| Date Prepared: | $10 / 12 / 20090800$ |  |  |


| Analyte | Result | Qual |  | RL |
| :---: | :---: | :---: | :---: | :---: |
| Isopropylbenzene | ND |  |  | 5.0 |
| 4-Isopropyltoluene | ND |  |  | 5.0 |
| Methylene Chloride | ND |  |  | 10 |
| 4-Methyl-2-pentanone (MIBK) | ND |  |  | 50 |
| Naphthalene | ND |  |  | 10 |
| N-Propylbenzene | ND |  |  | 5.0 |
| Styrene | ND |  |  | 5.0 |
| 1,1,1,2-Tetrachloroethane | ND |  |  | 5.0 |
| 1,1,2,2-Tetrachloroethane | ND |  |  | 5.0 |
| Tetrachloroethene | ND |  |  | 5.0 |
| Toluene | ND |  |  | 5.0 |
| 1,2,3-Trichlorobenzene | ND |  |  | 5.0 |
| 1,2,4-Trichlorobenzene | ND |  |  | 5.0 |
| 1,1,1-Trichloroethane | ND |  |  | 5.0 |
| 1,1,2-Trichloroethane | ND |  |  | 5.0 |
| Trichloroethene | ND |  |  | 5.0 |
| Trichlorofluoromethane | ND |  |  | 5.0 |
| 1,2,3-Trichloropropane | ND |  |  | 5.0 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND |  |  | 5.0 |
| 1,2,4-Trimethylbenzene | ND |  |  | 5.0 |
| 1,3,5-Trimethylbenzene | ND |  |  | 5.0 |
| Vinyl acetate | ND |  |  | 50 |
| Vinyl chloride | ND |  |  | 5.0 |
| Xylenes, Total | ND |  |  | 10 |
| 2,2-Dichloropropane | ND |  |  | 5.0 |
| Gasoline Range Organics (GRO)-C5-C12 | ND |  |  | 250 |
| TBA | ND |  |  | 5.0 |
| DIPE | ND |  |  | 5.0 |
| TAME | ND |  |  | 5.0 |
| Ethyl t-butyl ether | ND |  |  | 5.0 |
| Surrogate | \% Rec |  | Acceptance Limits |  |
| 4-Bromofluorobenzene | 105 |  | 52-140 |  |
| 1,2-Dichloroethane-d4 (Surr) | 119 |  | 60-140 |  |
| Toluene-d8 (Surr) | 103 |  | 58-140 |  |

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-59432

Method: 8260B
Preparation: 5030B

| LCS Lab Sample ID: | LCS 720-59432/1-A | Analysis Batch: 720-59384 | Instrument ID: Chen | Chenstation 3 |
| :---: | :---: | :---: | :---: | :---: |
| Client Matrix: | Solid | Prep Batch: 720-59432 | Lab File ID: 1012 | 10120921.D |
| Dilution: | 1.0 | Units: ug/Kg | Initial Weight/Volume: | 5 g |
| Date Analyzed: | 10/12/2009 2042 |  | Final Weight/Volume: | 10 mL |
| Date Prepared: | 10/12/2009 0800 |  |  |  |


| LCSD Lab Sample ID: | LCSD 720-59432/2-A | Analysis Batch: 720-59384 | Instrument ID: Ch | station 3 |
| :---: | :---: | :---: | :---: | :---: |
| Client Matrix: | Solid | Prep Batch: 720-59432 | Lab File ID: 10120 |  |
| Dilution: | 1.0 | Units: ug/Kg | Initial Weight/Volume: | 5 g |
| Date Analyzed: | 10/12/2009 2115 |  | Final Weight/Volume: | 10 mL |
| Date Prepared: | 10/12/2009 0800 |  |  |  |


| \% Rec. |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Analyte | LCS | LCSD | Limit | RPD | RPD Limit | LCS Qual | LCSD Qual |
| Methyl tert-butyl ether | 114 | 109 | 69-125 | 4 | 20 |  |  |
| Acetone | 125 | 117 | 37-150 | 7 | 20 |  |  |
| Benzene | 104 | 103 | 72-120 | 1 | 20 |  |  |
| Dichlorobromomethane | 119 | 117 | 64-135 | 2 | 20 |  |  |
| Bromobenzene | 98 | 98 | 77-121 | 0 | 20 |  |  |
| Chlorobromomethane | 98 | 97 | 65-128 | 2 | 20 |  |  |
| Bromoform | 108 | 106 | 58-132 | 1 | 20 |  |  |
| Bromomethane | 102 | 99 | 56-124 | 3 | 20 |  |  |
| 2-Butanone (MEK) | 122 | 116 | 41-150 | 5 | 20 |  |  |
| n-Butylbenzene | 120 | 120 | 60-145 | 1 | 20 |  |  |
| sec-Butylbenzene | 108 | 108 | 64-137 | 0 | 20 |  |  |
| tert-Butylbenzene | 106 | 106 | 63-134 | 0 | 20 |  |  |
| Carbon disulfide | 92 | 91 | 10-150 | 1 | 20 |  |  |
| Carbon tetrachloride | 109 | 107 | 54-141 | 1 | 20 |  |  |
| Chlorobenzene | 103 | 103 | 70-121 | 0 | 20 |  |  |
| Chloroethane | 105 | 105 | 61-125 | 0 | 20 |  |  |
| Chloroform | 109 | 108 | 67-125 | 1 | 20 |  |  |
| Chloromethane | 106 | 106 | 50-131 | 0 | 20 |  |  |
| 2-Chlorotoluene | 112 | 111 | 75-131 | 1 | 20 |  |  |
| 4-Chlorotoluene | 113 | 112 | 76-129 | 1 | 20 |  |  |
| Chlorodibromomethane | 116 | 113 | 60-140 | 3 | 20 |  |  |
| 1,2-Dichlorobenzene | 103 | 104 | 73-126 | 1 | 20 |  |  |
| 1,3-Dichlorobenzene | 102 | 102 | 73-128 | 1 | 20 |  |  |
| 1,4-Dichlorobenzene | 100 | 100 | 72-122 | 1 | 20 |  |  |
| 1,3-Dichloropropane | 119 | 115 | 74-127 | 4 | 20 |  |  |
| 1,1-Dichloropropene | 111 | 109 | 67-128 | 1 | 20 |  |  |
| 1,2-Dibromo-3-Chloropropane | 118 | 106 | 57-130 | 11 | 20 |  |  |
| Ethylene Dibromide | 110 | 106 | 66-135 | 4 | 20 |  |  |
| Dibromomethane | 115 | 113 | 65-131 | 2 | 20 |  |  |
| Dichlorodifluoromethane | 110 | 111 | 38-120 | 1 | 20 |  |  |
| 1,1-Dichloroethane | 111 | 110 | 67-126 | 1 | 20 |  |  |
| 1,2-Dichloroethane | 118 | 116 | 73-122 | 2 | 20 |  |  |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-59432

Method: 8260B
Preparation: 5030B

| LCS Lab Sample ID: | LCS 720-59432/1-A | Analysis Batch: 720-59384 | Instrument ID: Chen | on 3 |
| :---: | :---: | :---: | :---: | :---: |
| Client Matrix: | Solid | Prep Batch: 720-59432 | Lab File ID: 1012 |  |
| Dilution: | 1.0 | Units: ug/Kg | Initial Weight/Volume: | 5 g |
| Date Analyzed: | 10/12/2009 2042 |  | Final Weight/Volume: | 10 mL |
| Date Prepared: | 10/12/2009 0800 |  |  |  |


| LCSD Lab Sample ID: | LCSD 720-59432/2-A | Analysis Batch: 720-59384 | Instrument ID:Chenstation 3 <br> Client Matrix: Solid |
| :--- | :--- | :--- | :--- |
| Dilution: | 1.0 | Prep Batch: 720-59432 | Lab File ID: 10120922.D |
| Date Analyzed: | $10 / 12 / 20092115$ | Units: ug/Kg | Initial Weight/Volume: 5 g |
| Date Prepared: | $10 / 12 / 20090800$ |  | Final Weight/Volume: 10 mL |


| \% Rec. |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Analyte | LCS | LCSD | Limit | RPD | RPD Limit | LCS Qual | LCSD Qual |
| 1,1-Dichloroethene | 107 | 106 | 64-129 | 1 | 20 |  |  |
| cis-1,2-Dichloroethene | 112 | 111 | 68-131 | 1 | 20 |  |  |
| trans-1,2-Dichloroethene | 101 | 99 | 70-130 | 2 | 20 |  |  |
| 1,2-Dichloropropane | 110 | 107 | 65-133 | 3 | 20 |  |  |
| cis-1,3-Dichloropropene | 123 | 122 | 46-139 | 1 | 20 |  |  |
| trans-1,3-Dichloropropene | 122 | 120 | 55-131 | 2 | 20 |  |  |
| Ethylbenzene | 110 | 108 | 65-130 | 2 | 20 |  |  |
| Hexachlorobutadiene | 106 | 109 | 58-132 | 2 | 20 |  |  |
| 2-Hexanone | 124 | 113 | 44-150 | 9 | 20 |  |  |
| Isopropylbenzene | 93 | 92 | 65-130 | 1 | 20 |  |  |
| 4-Isopropyltoluene | 109 | 109 | 69-134 | 0 | 20 |  |  |
| Methylene Chloride | 98 | 99 | 63-129 | 0 | 20 |  |  |
| 4-Methyl-2-pentanone (MIBK) | 124 | 114 | 51-140 | 8 | 20 |  |  |
| Naphthalene | 120 | 116 | 45-146 | 3 | 20 |  |  |
| N-Propylbenzene | 109 | 110 | 71-130 | 1 | 20 |  |  |
| Styrene | 108 | 106 | 58-135 | 2 | 20 |  |  |
| 1,1,1,2-Tetrachloroethane | 107 | 106 | 64-133 | 1 | 20 |  |  |
| 1,1,2,2-Tetrachloroethane | 123 | 117 | 75-131 | 5 | 20 |  |  |
| Tetrachloroethene | 93 | 93 | 67-128 | 1 | 20 |  |  |
| Toluene | 101 | 101 | 72-120 | 1 | 20 |  |  |
| 1,2,3-Trichlorobenzene | 109 | 109 | 58-138 | 0 | 20 |  |  |
| 1,2,4-Trichlorobenzene | 105 | 105 | 49-144 | 0 | 20 |  |  |
| 1,1,1-Trichloroethane | 107 | 108 | 57-133 | 1 | 20 |  |  |
| 1,1,2-Trichloroethane | 119 | 114 | 68-132 | 4 | 20 |  |  |
| Trichloroethene | 93 | 90 | 66-125 | 3 | 20 |  |  |
| Trichlorofluoromethane | 110 | 107 | 61-127 | 3 | 20 |  |  |
| 1,2,3-Trichloropropane | 126 | 123 | 62-150 | 3 | 20 |  |  |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 94 | 92 | 52-126 | 2 | 20 |  |  |
| 1,2,4-Trimethylbenzene | 115 | 116 | 64-140 | 1 | 20 |  |  |
| 1,3,5-Trimethylbenzene | 111 | 111 | 67-134 | 0 | 20 |  |  |
| Vinyl acetate | 122 | 117 | 52-150 | 4 | 20 |  |  |
| Vinyl chloride | 101 | 99 | 62-120 | 2 | 20 |  |  |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Sigma Engineering, Inc.
Job Number: 720-23080-1

## Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 720-59432

Method: 8260B
Preparation: 5030B

| LCS Lab Sample ID: | LCS 720-59432/1-A | Analysis Batch: $720-59384$ | Instrument ID: Chenstation 3 |
| :--- | :--- | :--- | :--- |
| Client Matrix: | Solid | Prep Batch: $720-59432$ | Lab File ID: |
| Dilution: | 1.0 | Units: ug/Kg | Initial Weight/Volume: $\quad 5 \mathrm{~g}$ |
| Date Analyzed: | $10 / 12 / 20092042$ |  | Final Weight/Volume: |
| Date Prepared: | $10 / 12 / 20090800$ |  |  |


| LCSD Lab Sample ID: | LCSD 720-59432/2-A | Analysis Batch: 720-59384 | Instrument ID: Ch | station 3 |
| :---: | :---: | :---: | :---: | :---: |
| Client Matrix: | Solid | Prep Batch: 720-59432 | Lab File ID: 10120 | 2.D |
| Dilution: | 1.0 | Units: ug/Kg | Initial Weight/Volume: | 5 g |
| Date Analyzed: | 10/12/2009 2115 |  | Final Weight/Volume: | 10 mL |
| Date Prepared: | 10/12/2009 0800 |  |  |  |


| \% Rec. |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Analyte | LCS | LCSD | Limit | RPD | RPD Limit | LCS Qual | LCSD Qual |
| 2,2-Dichloropropane | 117 | 115 | 63-130 | 1 | 20 |  |  |
| TBA | 91 | 91 | 70-130 | 0 | 20 |  |  |
| DIPE | 105 | 102 | 70-130 | 2 | 20 |  |  |
| TAME | 118 | 113 | 70-130 | 4 | 20 |  |  |
| Ethyl t-butyl ether | 106 | 101 | 70-130 | 5 | 20 |  |  |
| Surrogate | LCS \% Rec |  | LCSD \% Rec |  | Acceptance Limits |  |  |
| 4-Bromofluorobenzene | 112 |  | 109 |  | 52-140 |  |  |
| 1,2-Dichloroethane-d4 (Surr) | 118 |  | 114 |  | 60-140 |  |  |
| Toluene-d8 (Surr) | 105 |  | 104 |  | 58-140 |  |  |

Client: Sigma Engineering, Inc.
Job Number: 720-23080-1

## Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 720-59432

| LCS Lab Sample ID: | LCS 720-59432/4-A | Analysis Batch: 720-59384 | Instrument ID: Chenstation 3 |
| :--- | :--- | :--- | :--- |
| Client Matrix: | Solid | Prep Batch: 720-59432 | Lab File ID: |
| Dilution: | 1.0 | Units: ug/Kg | Initial Weight/Volume: 5 g |
| Date Analyzed: | $10 / 12 / 20092148$ |  | Final Weight/Volume: $\quad 10 \mathrm{~mL}$ |

Method: 8260B
Preparation: 5030B
Date Prepared: 10/12/2009 0800

| LCSD Lab Sample ID: | LCSD 720-59432/5-A | Analysis Batch: $720-59384$ | Instrument ID: Chenstation 3 |
| :--- | :--- | :--- | :--- |
| Client Matrix: | Solid | Prep Batch: 720-59432 | Lab File ID: $10120924 . \mathrm{D}$ |
| Dilution: | 1.0 | Units: ug/Kg | Initial Weight/Volume: 5 g |
| Date Analyzed: | $10 / 12 / 20092220$ |  | Final Weight/Volume: 10 mL |
| Date Prepared: | $10 / 12 / 20090800$ |  |  |


| Analyte | LCS | $\%$ Rec. |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| LCSD | Limit | RPD | RPD Limit | LCS Qual | LCSD Qual |  |
| Gasoline Range Organics (GRO)-C5-C12 | 96 | 96 | $70-130$ | 1 | 20 |  |
| Surrogate |  | LCS $\%$ Rec | LCSD \% Rec | Acceptance Limits |  |  |
| 4-Bromofluorobenzene | 111 | 112 | $52-140$ |  |  |  |
| 1,2-Dichloroethane-d4 (Surr) | 119 | 123 | $60-140$ |  |  |  |
| Toluene-d8 (Surr) | 105 | 105 | $58-140$ |  |  |  |

Client: Sigma Engineering, Inc.
Job Number: 720-23080-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-59432

Method: 8260B
Preparation: 5030B

| MS Lab Sample ID: | $720-23080-24$ | Analysis Batch: 720-59384 |
| :--- | :--- | :--- |
| Client Matrix: | Solid | Prep Batch: 720-59432 |
| Dilution: | 1.0 |  |
| Date Analyzed: | $10 / 13 / 20090032$ |  |
| Date Prepared: | $10 / 12 / 20090800$ |  |


| Instrument ID: | Chenstation 3 |
| :--- | :--- |
| Lab File ID: | $10120928 . \mathrm{D}$ |
| Initial Weight/Volume: 5.01 g |  |
| Final Weight/Volume: | 10 mL |


| MSD Lab Sample ID: | $720-23080-24$ | Analysis Batch: 720-59384 | Instrument ID: Chenstation 3 |
| :--- | :--- | :--- | :--- |
| Client Matrix: | Solid | Prep Batch: $720-59432$ | Lab File ID: |
| Dilution: | 1.0 |  | Initial Weight/Volume: 5.06 g |
| Date Analyzed: | $10 / 13 / 20090105$ |  | Final Weight/Volume: 10 mL |
| Date Prepared: | $10 / 12 / 20090800$ |  |  |


|  | \% Rec. |  |  |  |  | RPD Limit |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | MS Qual MSD Qual

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Sigma Engineering, Inc.
Job Number: 720-23080-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-59432

Method: 8260B
Preparation: 5030B

| MS Lab Sample ID: | $720-23080-24$ | Analysis Batch: 720-59384 |
| :--- | :--- | :--- |
| Client Matrix: | Solid | Prep Batch: 720-59432 |
| Dilution: | 1.0 |  |
| Date Analyzed: | $10 / 13 / 20090032$ |  |
| Date Prepared: | $10 / 12 / 20090800$ |  |


| Instrument ID: | Chenstation 3 |
| :--- | :--- |
| Lab File ID: | $10120928 . \mathrm{D}$ |
| Initial Weight/Volume: 5.01 g |  |
| Final Weight/Volume: | 10 mL |


| MSD Lab Sample ID: | $720-23080-24$ | Analysis Batch: 720-59384 | Instrument ID: Chenstation 3 |
| :--- | :--- | :--- | :--- |
| Client Matrix: | Solid | Prep Batch: $720-59432$ | Lab File ID: 10120929.D |
| Dilution: | 1.0 |  | Initial Weight/Volume: 5.06 g |
| Date Analyzed: | $10 / 13 / 20090105$ |  | Final Weight/Volume: 10 mL |
| Date Prepared: | $10 / 12 / 20090800$ |  |  |


| \% Rec. |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Analyte | MS | MSD | Limit | RPD | RPD Limit | MS Qual | MSD Qual |
| Dichlorodifluoromethane | 57 | 59 | 38-130 | 2 | 20 |  |  |
| 1,1-Dichloroethane | 108 | 109 | 67-130 | 1 | 20 |  |  |
| 1,2-Dichloroethane | 116 | 120 | 70-130 | 2 | 20 |  |  |
| 1,1-Dichloroethene | 100 | 101 | 64-130 | 0 | 20 |  |  |
| cis-1,2-Dichloroethene | 109 | 111 | 68-131 | 1 | 20 |  |  |
| trans-1,2-Dichloroethene | 97 | 97 | 70-130 | 1 | 20 |  |  |
| 1,2-Dichloropropane | 108 | 113 | 65-133 | 4 | 20 |  |  |
| cis-1,3-Dichloropropene | 120 | 123 | 46-139 | 2 | 20 |  |  |
| trans-1,3-Dichloropropene | 119 | 123 | 55-131 | 3 | 20 |  |  |
| Ethylbenzene | 105 | 110 | 65-130 | 3 | 20 |  |  |
| Hexachlorobutadiene | 102 | 105 | 58-132 | 2 | 20 |  |  |
| 2-Hexanone | 130 | 133 | 44-150 | 2 | 20 |  |  |
| Isopropylbenzene | 90 | 92 | 65-130 | 2 | 20 |  |  |
| 4-Isopropyltoluene | 112 | 112 | 69-134 | 0 | 20 |  |  |
| Methylene Chloride | 104 | 106 | 63-130 | 0 | 20 |  |  |
| 4-Methyl-2-pentanone (MIBK) | 132 | 132 | 51-140 | 1 | 20 |  |  |
| Naphthalene | 115 | 116 | 45-146 | 0 | 20 |  |  |
| N-Propylbenzene | 112 | 111 | 70-130 | 2 | 20 |  |  |
| Styrene | 104 | 107 | 58-135 | 1 | 20 |  |  |
| 1,1,1,2-Tetrachloroethane | 107 | 110 | 64-133 | 1 | 20 |  |  |
| 1,1,2,2-Tetrachloroethane | 138 | 137 | 70-131 | 2 | 20 | F | F |
| Tetrachloroethene | 87 | 89 | 67-130 | 2 | 20 |  |  |
| Toluene | 100 | 102 | 70-130 | 1 | 20 |  |  |
| 1,2,3-Trichlorobenzene | 102 | 103 | 58-138 | 0 | 20 |  |  |
| 1,2,4-Trichlorobenzene | 93 | 95 | 49-144 | 1 | 20 |  |  |
| 1,1,1-Trichloroethane | 102 | 102 | 57-133 | 1 | 20 |  |  |
| 1,1,2-Trichloroethane | 122 | 121 | 68-132 | 2 | 20 |  |  |
| Trichloroethene | 87 | 87 | 66-130 | 1 | 20 |  |  |
| Trichlorofluoromethane | 95 | 96 | 61-130 | 0 | 20 |  |  |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Sigma Engineering, Inc.
Job Number: 720-23080-1

## Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 720-59432

Method: 8260B
Preparation: 5030B

| MS Lab Sample ID: | $720-23080-24$ Solid | Analysis Batch: 720-59384 | Instrument ID: Che | Chenstation 3 10120928.D |
| :---: | :---: | :---: | :---: | :---: |
| Client Matrix: | Solid | Prep Batch: 720-59432 | Lab File ID: 101208 |  |
| Dilution: | 1.0 |  | Initial Weight/Volume: | 5.01 g |
| Date Analyzed: | 10/13/2009 0032 |  | Final Weight/Volume: | 10 mL |
| Date Prepared: | 10/12/2009 0800 |  |  |  |
| MSD Lab Sample ID: | 720-23080-24 | Analysis Batch: 720-59384 | Instrument ID: Chens | ation 3 |
| Client Matrix: | Solid | Prep Batch: 720-59432 | Lab File ID: 10120 | 29.D |
| Dilution: | 1.0 |  | Initial Weight/Volume: | 5.06 g |
| Date Analyzed: | 10/13/2009 0105 |  | Final Weight/Volume: | 10 mL |
| Date Prepared: | 10/12/2009 0800 |  |  |  |


| \% Rec. |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Analyte | MS | MSD | Limit | RPD | RPD Limit | MS Qual | MSD Qual |
| 1,2,3-Trichloropropane | 139 | 140 | 62-150 | 0 | 20 |  |  |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 85 | 85 | 52-130 | 1 | 20 |  |  |
| 1,2,4-Trimethylbenzene | 118 | 119 | 64-140 | 0 | 20 |  |  |
| 1,3,5-Trimethylbenzene | 113 | 113 | 67-134 | 1 | 20 |  |  |
| Vinyl acetate | 21 | 16 | 52-150 | 26 | 20 | F | F |
| Vinyl chloride | 79 | 80 | 62-130 | 1 | 20 |  |  |
| 2,2-Dichloropropane | 104 | 109 | 63-130 | 4 | 20 |  |  |
| TBA | 92 | 93 | 70-130 | 0 | 20 |  |  |
| DIPE | 108 | 109 | 70-130 | 0 | 20 |  |  |
| TAME | 117 | 121 | 70-130 | 2 | 20 |  |  |
| Ethyl t-butyl ether | 105 | 109 | 70-130 | 2 | 20 |  |  |
| Surrogate |  | MS \% Rec |  |  |  | ance Limits |  |
| 4-Bromofluorobenzene |  | 108 |  |  |  | 140 |  |
| 1,2-Dichloroethane-d4 (Surr) |  | 118 |  |  |  | 140 |  |
| Toluene-d8 (Surr) |  | 102 |  |  |  | 140 |  |

## Method Blank - Batch: 720-59492

| Lab Sample ID: | MB 720-59492/1-A |  |
| :--- | :--- | :--- |
| Client Matrix: | Solid |  |
| Dilution: | 1.0 |  |
| Date Analyzed: | $10 / 13 / 2009$ | 1315 |
| Date Prepared: | $10 / 13 / 2009$ | 0800 |

Method: 8260B
Preparation: 5035

Analysis Batch: 720-59397
Prep Batch: 720-59492
Units: ug/Kg

Instrument ID: Chenstation 3
Lab File ID: 10130911.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 10 mL

| Analyte | Result | Qual | RL |
| :---: | :---: | :---: | :---: |
| Methyl tert-butyl ether | ND |  | 5.0 |
| Acetone | ND |  | 50 |
| Benzene | ND |  | 5.0 |
| Dichlorobromomethane | ND |  | 5.0 |
| Bromobenzene | ND |  | 5.0 |
| Chlorobromomethane | ND |  | 20 |
| Bromoform | ND |  | 5.0 |
| Bromomethane | ND |  | 10 |
| 2-Butanone (MEK) | ND |  | 50 |
| n -Butylbenzene | ND |  | 5.0 |
| sec-Butylbenzene | ND |  | 5.0 |
| tert-Butylbenzene | ND |  | 5.0 |
| Carbon disulfide | ND |  | 5.0 |
| Carbon tetrachloride | ND |  | 5.0 |
| Chlorobenzene | ND |  | 5.0 |
| Chloroethane | ND |  | 10 |
| Chloroform | ND |  | 5.0 |
| Chloromethane | ND |  | 10 |
| 2-Chlorotoluene | ND |  | 5.0 |
| 4-Chlorotoluene | ND |  | 5.0 |
| Chlorodibromomethane | ND |  | 5.0 |
| 1,2-Dichlorobenzene | ND |  | 5.0 |
| 1,3-Dichlorobenzene | ND |  | 5.0 |
| 1,4-Dichlorobenzene | ND |  | 5.0 |
| 1,3-Dichloropropane | ND |  | 5.0 |
| 1,1-Dichloropropene | ND |  | 5.0 |
| 1,2-Dibromo-3-Chloropropane | ND |  | 5.0 |
| Ethylene Dibromide | ND |  | 5.0 |
| Dibromomethane | ND |  | 10 |
| Dichlorodifluoromethane | ND |  | 10 |
| 1,1-Dichloroethane | ND |  | 5.0 |
| 1,2-Dichloroethane | ND |  | 5.0 |
| 1,1-Dichloroethene | ND |  | 5.0 |
| cis-1,2-Dichloroethene | ND |  | 5.0 |
| trans-1,2-Dichloroethene | ND |  | 5.0 |
| 1,2-Dichloropropane | ND |  | 5.0 |
| cis-1,3-Dichloropropene | ND |  | 5.0 |
| trans-1,3-Dichloropropene | ND |  | 5.0 |
| Ethylbenzene | ND |  | 5.0 |
| Hexachlorobutadiene | ND |  | 5.0 |
| 2-Hexanone | ND |  | 50 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

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## Method Blank - Batch: 720-59492

| Lab Sample ID: | MB 720-59492/1-A | Analysis Batch: 720-59397 | Instrument ID: Chenstation 3 |
| :--- | :--- | :--- | :--- |
| Client Matrix: | Solid | Prep Batch: 720-59492 | Lab File ID: 10130911.D |
| Dilution: | 1.0 | Units: ug/Kg | Initial Weight/Volume: 5 g |
| Date Analyzed: | $10 / 13 / 20091315$ |  | Final Weight/Volume: 10 mL |
| Date Prepared: | $10 / 13 / 20090800$ |  |  |


| Analyte | Result | Qual |  | RL |
| :---: | :---: | :---: | :---: | :---: |
| Isopropylbenzene | ND |  |  | 5.0 |
| 4-Isopropyltoluene | ND |  |  | 5.0 |
| Methylene Chloride | ND |  |  | 10 |
| 4-Methyl-2-pentanone (MIBK) | ND |  |  | 50 |
| Naphthalene | ND |  |  | 10 |
| N-Propylbenzene | ND |  |  | 5.0 |
| Styrene | ND |  |  | 5.0 |
| 1,1,1,2-Tetrachloroethane | ND |  |  | 5.0 |
| 1,1,2,2-Tetrachloroethane | ND |  |  | 5.0 |
| Tetrachloroethene | ND |  |  | 5.0 |
| Toluene | ND |  |  | 5.0 |
| 1,2,3-Trichlorobenzene | ND |  |  | 5.0 |
| 1,2,4-Trichlorobenzene | ND |  |  | 5.0 |
| 1,1,1-Trichloroethane | ND |  |  | 5.0 |
| 1,1,2-Trichloroethane | ND |  |  | 5.0 |
| Trichloroethene | ND |  |  | 5.0 |
| Trichlorofluoromethane | ND |  |  | 5.0 |
| 1,2,3-Trichloropropane | ND |  |  | 5.0 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND |  |  | 5.0 |
| 1,2,4-Trimethylbenzene | ND |  |  | 5.0 |
| 1,3,5-Trimethylbenzene | ND |  |  | 5.0 |
| Vinyl acetate | ND |  |  | 50 |
| Vinyl chloride | ND |  |  | 5.0 |
| m -Xylene \& p -Xylene | ND |  |  | 5.0 |
| o-Xylene | ND |  |  | 5.0 |
| Xylenes, Total | ND |  |  | 10 |
| 2,2-Dichloropropane | ND |  |  | 5.0 |
| Gasoline Range Organics (GRO)-C5-C12 | ND |  |  | 250 |
| TBA | ND |  |  | 5.0 |
| DIPE | ND |  |  | 5.0 |
| TAME | ND |  |  | 5.0 |
| Ethyl t-butyl ether | ND |  |  | 5.0 |
| Surrogate | \% Rec |  | Acceptance Limits |  |
| 4-Bromofluorobenzene | 109 |  | 52-140 |  |
| 1,2-Dichloroethane-d4 (Surr) | 137 |  | 60-140 |  |
| Toluene-d8 (Surr) | 105 |  | 58-140 |  |

Client: Sigma Engineering, Inc.
Job Number: 720-23080-1

## Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 720-59492

Method: 8260B
Preparation: 5035

| LCS Lab Sample ID: | LCS 720-59492/4-A | Analysis Batch: 720-59397 | Instrument ID: Chenstation 3 |
| :--- | :--- | :--- | :--- |
| Client Matrix: | Solid | Prep Batch: 720-59492 | Lab File ID: |
| Dilution: | 1.0 | Units: ug/Kg | Initial Weight/Volume: 5 g |
| Date Analyzed: | $10 / 13 / 20091211$ |  | Final Weight/Volume: $\quad 10 \mathrm{~mL}$ |

Date Prepared: 10/13/2009 0800

| LCSD Lab Sample ID: | LCSD 720-59492/5-A | Analysis Batch: $720-59397$ | Instrument ID: Chenstation 3 |
| :--- | :--- | :--- | :--- |
| Client Matrix: | Solid | Prep Batch: 720-59492 | Lab File ID: 10130910.D |
| Dilution: | 1.0 | Units: ug/Kg | Initial Weight/Volume: 5 g |
| Date Analyzed: | $10 / 13 / 20091243$ |  | Final Weight/Volume: 10 mL |
| Date Prepared: | $10 / 13 / 20090800$ |  |  |


| Analyte | LCS | $\%$ Rec. |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| LCSD | Limit | RPD | RPD Limit | LCS Qual | LCSD Qual |  |
| Gasoline Range Organics (GRO)-C5-C12 | 93 | 91 | $70-130$ | 3 | 20 |  |
| Surrogate |  | LCS $\%$ Rec | LCSD \% Rec | Acceptance Limits |  |  |
| 4-Bromofluorobenzene | 114 | 116 | $52-140$ |  |  |  |
| 1,2-Dichloroethane-d4 (Surr) | 125 | 133 | $60-140$ |  |  |  |
| Toluene-d8 (Surr) | 106 | 107 | $58-140$ |  |  |  |



Calculations are performed before rounding to avoid round-off errors in calculated results.


Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Sigma Engineering, Inc

## Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 720-59312



 \begin{tabular}{l}
145517 <br>
TestAmerica Laboratories, Inc. <br>
COC No: $\quad 3$ <br>
\hline$\quad$ of $\quad 3 \mathrm{COCs}$ <br>
\hline Job No. <br>
<br>
\hline SDG No.

 

\hline SDG No. <br>
Sample Specific Notes: <br>
\hline Cll <br>
\hline <br>
\hline
\end{tabular} CRSSES caleSE1:

caleSE1 $+$


## Login Sample Receipt Check List

Client: Sigma Engineering, Inc.

## Login Number: 23080

List Source: TestAmerica San Francisco

## Creator: Mullen, Joan

## List Number: 1

| Question | T/F/NA Comment |
| :---: | :---: |
| Radioactivity either was not measured or, if measured, is at or below background | N/A |
| The cooler's custody seal, if present, is intact. | N/A |
| The cooler or samples do not appear to have been compromised or tampered with. | True |
| Samples were received on ice. | True |
| Cooler Temperature is acceptable. | True |
| Cooler Temperature is recorded. | True |
| COC is present. | True |
| COC is filled out in ink and legible. | True |
| COC is filled out with all pertinent information. | True |
| There are no discrepancies between the sample IDs on the containers and the COC. | True |
| Samples are received within Holding Time. | True |
| Sample containers have legible labels. | True |
| Containers are not broken or leaking. | True |
| Sample collection date/times are provided. | True |
| Appropriate sample containers are used. | True |
| Sample bottles are completely filled. | True |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True |
| VOA sample vials do not have headspace or bubble is $<6 \mathrm{~mm}$ (1/4") in diameter. | True |
| If necessary, staff have been informed of any short hold time or quick TAT needs | True |
| Multiphasic samples are not present. | True |
| Samples do not require splitting or compositing. | True |
| Is the Field Sampler's name present on COC? | True |
| Sample Preservation Verified | True |

Appendix C
Boring Logs
$\qquad$
$\qquad$ Hydropunch


| 098275 (Sears TBA, San Rafael) |
| :---: |
| Vironex |
| 3" OD |

Drill Method: $\qquad$ Geoprobe Direct Push







| Date: | 6-Oct-09 |
| :--- | :---: |
| Project | 098275 (Sears TBA, San Rafael) |
| Drilling Co. | Vironex |
| Boring Diameter: |  |





| 6-Oct-09 |
| :---: | :---: |
| 098275 (Sears TBA, San Rafael) |
| Vironex |
| 2" OD |

ce:
$\qquad$ Geoprobe Direct Push



# PARC Services, Inc. 

## Environmental Solutions

1020 Shannon Court, Livermore, CA 94550
Phone (925) 371-4610 Fax (925) 606-8704
Asbestos Abatement • Lead Paint Removal • Demolition • Hazardous Waste Disposal 24 Hour Emergency Spill Response •Soil Remediation • Microbial Decontamination •Lab Packing

# Job Book For Hazardous Materials Removal \& Disposal <br> The Mall at Northgate - Various Areas <br> San Rafael, CA 

Prepared for:<br>Mr. Aladdin Ghafari<br>Macerich Management Company<br>401 Wilshire Blvd., Suite 700<br>Santa Monica, CA 90401

Prepared by:
PARC Services
1020 Shannon Court
Livermore, CA 94550
Project \# 3105
Work Authorization No. 1


Mark Hughes
Branch Manager

Report Date: October 8 ${ }^{\text {th }}, 2014$

## TABLE OF CONTENTS

1. Executive Summary \& Scope of Work
2. Project Data Sheet
3. Job Site Roster
4. Manifest Log/Manifests
5. Worker Licenses, Training, Medical Certificates and Fit Test
6. Insurance

## Executive Summary \& Scope of Work

# PARC Services, Inc. 

## Environmental Solutions

1020 Shannon Court, Livermore, CA 94550
Phone (925) 371-4610 Fax (925) 606-8704
Asbestos Abatement • Lead Paint Removal • Demolition • Hazardous Waste Disposal 24 Hour Emergency Spill Response •Soil Remediation • Microbial Decontamination • Lab Packing

CA Lic. \#801810 Hauler Reg \#136517 EPA \#CAR000164749 DOSH Registration \#819

## PROPOSAL

## TO: The Macerich Company <br> 401 Wilshire Blvd. Suite 400 Santa Monica, CA

## 614-044

DATE: February 18 $^{\text {th }}, 2014$
ATTN: Aladdin Ghafari
PHONE: (310) 899-6387
FAX: (310) 750-2102

## Job Name: Hazardous Materials Removal \& Disposal at the Northgate Mall

 in San Rafael, CAPARC Services, Inc., hereinafter designated as PARC, proposes to perform the following scope of work:

## Hazardous Materials Handling \& Disposal:

Package, transport \& dispose of regulated waste from the site to include:
> The provision of accredited Hazardous Waste Operations and Emergency Response (HazWOpER) Technicians at the site to perform all tasks.
> Appropriate packaging, transport and disposal of the waste identified in the inventory provided.
> Preparation of all Uniform Hazardous Waste Manifest for this component of the project.
$>$ All costs associated with transportation and disposal of the waste at an appropriately permitted facility.

Brand
Descr.
amount

5 gal, 18.9ltr
1 gal, 3.785 ltr
1 gal, 3.785 ltr
$1 \mathrm{gal}, 3.785 \mathrm{Itr}$
1 gal. 3.8
1 gal 3.785 litr
1 gal 3.785 litr
1 gal 3.785 litr
1 gal 3.78 ltr
1 gal 3.78 ltr
1 gal 3.8 litr
1 gal 3.79 ltr
1 gal 3.78 ltr
2 gal, 8 ltr
1 gal, 3.79 ltr
5 gal
1 gal 3.8 litr 5 gal
1 gal
1 gal 3.75 ltr
1 gal 3.75 ltr
1 gal 3.79 ltr
1 gal
1 gal 3.75 ltr
1 gal 3.75 ltr
6 gal
5 gal
1 gal 3.79 ltr
1 gal 3.785 litr 1 gal
1 gal 3.785 litr
1 gal 3.785 litr
1 gal 3.785 litr

| royal | all purpose cleaner | 1 gal |
| :---: | :---: | :---: |
| all star | masonary creet treat sealer | 1 gal 3.785 litr |
| restore | concentrate defo | 1 gal 3.785 litr |
| all pro | amonia | 1 gal 3.785 litr |
| national | resilient floor sealer | 1 gal 3.785 litr |
| pro vt | solid color stain | 5 gal |
| restore | deformer/capet extraction | 1 gal 3.785 litr |
| restore | concentrate deformer | 1 gal 3.785 litr |
| complince | stainless steel cleaner | 1 gal 3.8 litr |
| royal | stripper | 1 gal 3.785 litr |
| all star | creet floor sealer | 1 gal 3.785 litr |
| rug pro | carpet shampoo | 1 gal |
| spartan | non asid disinfectant-cleaner | 5 gal |
| spartan | non asid disinfectant cleaner | 5 gal |
| all pro | clear amonia | 1 gal 3.785 litr |
| color care | stripper | 1 gal 3.785 litr |
| royal | floor stripper | 1 gal |
| all pro | amonia | 1 gal 3.785 litr |
| color care | non-strip floor care | 1 gal |
| color care | non-strip floor care | 1 gal |
| all star | floor sealer | 1 gal 3.8 litr |
| cleen master | cleaning/pollishing agent | 1 gal |
| royal | all purpose cleaner | 1 gal |
| color care | prestine carpet care | 1 gal |
| hillyard | neutral synth cleaner | 1 gal |

# RECYCLE \& LANDFILL COMPENSATION: \$ 3,890. ${ }^{00}$ 

RECYCLE \& INCINERATION COMPENSATION: \$4,430. ${ }^{00}$

PROPOSAL TERMS: All work shall be performed in accordance with State and Federal regulations pertaining to abatement of hazardous materials including transport and disposal of waste. PARC carries liability, workers compensation and auto insurance. Unless otherwise stated, the customer agrees to supply sufficient water and electricity at no cost to PARC; the customer acknowledges that abatement requires the application of tape and agrees that PARC will not be held responsible for tape damage or for repainting; unless otherwise stated this bid is
based on performing the work during regular work hours; PARC shall not be responsible for weather protection or for damages resulting from weather or vandalism; this proposal is subject to change and may be withdrawn if not accepted within 30 days of the above date.

PAYMENT TERMS: Cash forthwith for any portion of work commenced and completed in any one calendar month. Balance of contract price due and payable within 10 calendar days upon completion of PARC's work. Unpaid monies shall be subject to a finance charge of $\mathbf{2 \%}$ per month. The customer agrees to compensate PARC for any collection-related costs, including reasonable attorney fees, if full payment is not made to PARC. The customer agrees that the court of jurisdiction, for any claim, shall be located in Alameda County.

Accepted 2014

By: $\qquad$

Title: $\qquad$
PARC Services, Inc.

Approved:


## By: Mark Hughes, Estimator

# PARC Services, Inc. 

## Environmental Solutions

1020 Shannon Court, Livermore, CA 94550
Phone (925) 371-4610 Fax (925) 606-8704
Asbestos Abatement •Lead Paint Removal • Demolition • Hazardous Waste Disposal
24 Hour Emergency Spill Response •Soil Remediation • Microbial Decontamination • Lab Packing
CA Lic. \#801810 Hauler Reg \#136517 EPA \#CAR000164749 DOSH Registration \#819

## PROPOSAL

TO: The Macerich Company 401 Wilshire Blvd. Suite 400<br>Santa Monica, CA

## 614-044 Add 1

DATE: April 1 ${ }^{\text {st }}, 2014$
ATTN: Aladdin Ghafari
PHONE: (310) 899-6387
FAX: (310) 750-2102

Job Name: Added Hazardous Materials Removal \& Disposal at the Northgate Mall in San Rafael, CA
PARC Services, Inc., hereinafter designated as PARC, proposes to perform the following scope of work:

## Hazardous Materials Handling \& Disposal:

The following list of items were packaged and disposed in addition to the materials listed on the inventory sheet:

1. Line Item \#1 - Waste Aerosol Cans ( $2 \times 5$-gallon drums)
2. Line Item \#4 - Toxic Liquids ( $1 \times 5$-gallon drum)
3. Line Item \#5 - Hydrochloric Acid ( $1 \times 5$-gallon drum) /
4. Line Item \#8 - Waste Latex Paint \& Related Material ( $2 \times 55$-gallon drums) / While there were items on the inventory sheet that met this waste criteria, the material that was at the site exceeded what was on the inventory sheet. Planned quantities included $15 \times 1$ gallon cans and $1 \times 5$-gallon can. This original quantity would have fit into $1 \times 55$-gallon drum as a loose pack. However because of the additional material identified for disposal, it became necessary to generate an additional $2 \times 55$ gallon drums.
5. Line Item \#9 - Waste Oil ( $1 \times 5$-gallon drum)

## RECYCLE \& INCINERATION COMPENSATION: \$ 977. ${ }^{00}$

PROPOSAL TERMS: All work shall be performed in accordance with State and Federal regulations pertaining to abatement of hazardous materials including transport and disposal of waste. PARC carries liability, workers compensation and auto insurance. Unless otherwise stated, the customer agrees to supply sufficient water and electricity at no cost to PARC; the customer acknowledges that abatement requires the application of tape and agrees that PARC will not be held responsible for tape damage or for repainting; unless otherwise stated this bid is based on performing the work during regular work hours; PARC shall not be responsible for weather protection or for damages resulting from weather or vandalism; this proposal is subject to change and may be withdrawn if not accepted within 30 days of the above date.

PAYMENT TERMS: Cash forthwith for any portion of work commenced and completed in any one calendar month. Balance of contract price due and payable within 10 calendar days upon completion of PARC's work. Unpaid monies shall be subject to a finance charge of $\mathbf{2 \%}$ per month. The customer agrees to compensate PARC for any collection-related costs, including reasonable attorney fees, if full payment is not made to PARC. The customer agrees that the court of jurisdiction, for any claim, shall be located in Alameda County.

Accepted $\qquad$ 2014

By: $\qquad$

Title: $\qquad$ -

PARC Services, Inc.
Approved:


By: Mark Hughes, Estimator

## Project Data Sheet

# PROJECT DATA SHEET 

CLIENT: Macerich Management Company<br>Santa Monica, California<br>MACERICH<br>REPRESENTATIVES: Mr. Aladdin Ghafari<br>PROJECT<br>LOCATION: The Mall at Northgate - Various Spaces<br>\section*{DESCRIPTION}<br>OF WORK:

Package, transport \& dispose of regulated waste from the site to include:
$>$ The provision of accredited Hazardous Waste Operations and Emergency Response (HazWOpER) Technicians at the site to perform all tasks.
> Appropriate packaging, transport and disposal of the waste identified in the inventory provided.
> Preparation of all Uniform Hazardous Waste Manifest for this component of the project.
> All costs associated with transportation and disposal of the waste at an appropriately permitted facility.

| Brand | Descr. | amount |
| :---: | :---: | :---: |
| complince ultra | floor finish | $5 \mathrm{gal}, 18.9 \mathrm{ltr}$ |
| acrthane | resilient floor sealer | $1 \mathrm{gal}, 3.785 \mathrm{ltr}$ |
| restore def. | carpet extr machine | $1 \mathrm{gal}, 3.785 \mathrm{ltr}$ |
| hillyard | seal finish | $1 \mathrm{gal}, 3.785 \mathrm{ltr}$ |
| acrathane | flooor sealer | 1 gal .3 .8 |
| restore | concentrate defo | 1 gal 3.785 litr |
| butchers spd track | clean vurnish | 1 gal 3.785 litr |
| duc vac wtr proof | sealer | 1 gal 3.785 litr |
| scots tuff | extraction cleaner | 1 gal 3.78 ltr |
| genlabs | neutralizer rinse aqgent | 1 gal 3.78 ltr |
| buckeye | slealer finish | 1 gal 3.8 litr |
| bona | floor cleaner | 1 gal 3.79 ltr |
| victor ida tom | super stripper | 1 gal 3.78 ltr |
| certified | wt-125; hot water boiler treatmnt | $2 \mathrm{gal}, 8 \mathrm{ltr}$ |
| consume | bacteria/digestant/deoderant | $1 \mathrm{gal}, 3.79 \mathrm{ltr}$ |
| verulin | water based/acrylic urathane | 5 gal |
| acrathane | floor sealer | 1 gal 3.8 litr |
| spartan sc-200 | hvy duty solvent/degreaser | 5 gal |
| royal | all purpose cleaner | 1 gal |
| royal | floor finish | 1 gal 3.75 ltr |
| restore | concentrate defo | 1 gal 3.75 ltr |
| spartan | carpet pre spray/spotter | 1 gal 3.79 ltr |
| royal | hvy duty solvent/degreaser | 1 gal |
| restore | concentrate defo | 1 gal 3.75 ltr |
| acrathane/ national | floor sealer | 1 gal 3.75 ltr |
| trackpite | floor cover | 6 gal |
| parex | cursatone/ floor finish | 5 gal |
| spartan | carpet pre spray/spotter | 1 gal 3.79 ltr |
| all pro | amonia | 1 gal 3.785 litr |
| royal | all purpose cleaner | 1 gal |
| all star | masonary creet treat sealer | 1 gal 3.785 litr |
| restore | concentrate defo | 1 gal 3.785 litr |
| all pro | amonia | 1 gal 3.785 litr |


| royal | all purpose cleaner | 1 gal |
| :---: | :---: | :---: |
| all star | masonary creet treat sealer | 1 gal 3.785 litr |
| restore | concentrate defo | 1 gal 3.785 litr |
| all pro | amonia | 1 gal 3.785 litr |
| national | resilient floor sealer | 1 gal 3.785 litr |
| provt | solid color stain | 5 gal |
| restore | deformer/capet extraction | 1 gal 3.785 litr |
| restore | concentrate deformer | 1 gal 3.785 litr |
| complince | stainless steel cleaner | 1 gal 3.8 litr |
| royal | stripper | 1 gal 3.785 litr |
| all star | creet floor sealer | 1 gal 3.785 litr |
| rug pro | carpet shampoo | 1 gal |
| spartan | non asid disinfectant-cleaner | 5 gal |
| spartan | non asid disinfectant cleaner | 5 gal |
| all pro | clear amonia | 1 gal 3.785 litr |
| color care | stripper | 1 gal 3.785 litr |
| royal | floor stripper | 1 gal |
| all pro | amonia | 1 gal 3.785 litr |
| color care | non-strip floor care | 1 gal |
| color care | non-strip floor care | 1 gal |
| all star | floor sealer | 1 gal 3.8 litr |
| cleen master | cleaning/pollishing agent | 1 gal |
| royal | all purpose cleaner | 1 gal |
| color care | prestine carpet care | 1 gal |
| hillyard | neutral synth cleaner | 1 gal |

## ADDED ITEMS BELOW-

1. Line Item \#1 - Waste Aerosol Cans ( $2 \times 5$-gallon drums)
2. Line Item \#4 - Toxic Liquids (1x5-gallon drum)
3. Line Item \#5-Hydrochloric Acid ( $1 \times 5$-gallon drum) /
4. Line Item \#8 - Waste Latex Paint \& Related Material ( $2 \times 55$-gallon drums) / While there were items on the inventory sheet that met this waste criteria, the material that was at the site exceeded what was on the inventory sheet. Planned quantities included $15 \times 1$ gallon cans and $1 \times 5$-gallon can. This original quantity would have fit into $1 \times 55$-gallon drum as a loose pack. However because of the additional material identified for disposal, it became necessary to generate an additional $2 \times 55$ gallon drums.
5. Line Item \#9 - Waste Oil ( $1 \times 5$-gallon drum)

CONTRACTOR: PARC Services Inc.
1020 Shannon Court, Livermore, CA 94550
CONSULTANT: There was no Consultant on the project

WORK DURATION: 2 Days
WASTE TRANSPORTOR: PARC Environmental
DISPOSAL LANDFILL: Rho Chem, LLC
425 Isls Avenue, Inglewood, CA 90301

## Job Site Roster



## Environmental Construction <br> . $\quad$ Solutions Made Easy

CA Lic. \#501913 NV Lic. \#0034638 DOSH Registration \#19 Hauler Registration \#2908 EPA \#CAT982507154 24 Hour Emergency Spill Response • Asbestos Abatement • Lead Paint Removal • Hazardous Waste Hauling and Disposal

## WORK SITE ENTRY/EXIT LOG

JOB NAME \& NUMBER: The Mall at Northgate, Hazardous Materials Removal and Disposal

DATE: March 25 ${ }^{\text {th }}, 2014$

EMPLOYEE NAME (PRINT)TIME IN/INITIAL
TIME OUT/INITIAL

Tomas Seaney
$\qquad$
$\qquad$
11:30 a.m.
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

## Manifest Log/Manifests







Piease pint or type. (Fom diesignod for use on elite (12-phtin) typewiter)
Form Ayprovel OMB No. 2050-0039


Worker Licenses, Training, Medical Certificates and Fit Test


# PARC Environmental Contractors - Safety Manual Section 1-25 

RESPIRATOR FIT TEST FORM


- I understand why respiratory protection is needed and where and when it should be used.
- I know how to use this respirator properly and how to clean and inspect it.
- I understand the limitations and restrictions of the respirators that I will be using.
- I understand that a good face seal cannot be achieved with obstruction such as facial hair or glasses.
- I understand that contact lenses when worn with a full face PAPR can damage your eyes.

Employee to initial that they have read and understood the above $\qquad$ .


01999 Any unauthorized publication or reuse of this document is strictly prohibited.

## Conditions of Certification

This individual meets the requirements of the State of California, Department of Public Health (CDPH), to perform lead-related construction. CDPH may suspend or revoke certification for:
0. any false statement in the application (for certification);
2. violations of relevant local, state or federal statutes or regulations;
3. misrepresentation, failure to disclose relevant facts, fraud, or issuance by mistake; or
4. failure to comply with any relevant regulation or order of the Department.
This certificate was issued by the Department of Public Health as authorized by 17 CCR 35001 et seq., and is non-transferable.

To verify authenticity call (800) 597-LEAD or 510-620-5600


03187233

## State of California Depariment of Public Health

 Lead-Related Construction Certificate
## Thomas H. Seaney



## Screening Status Report



Complete Pass Pending Fail


Drug Tests
Rapid Urine
Rapid Saliva
COC/CCF Urine Collection.
Hair Collection.
Breath Alcohol Test.


Min PAEMMCAL
Respiratory Medical Clearance
Employee Name: THOMAS SEANET
SSA \# $600-48-4603$
Employer: Parc environmental
Date: $7 / 17 / 4$


Employee has been medically cleared to wear Respiratory Protection as set forth in 29CFR 1910.134 or CCR Title Section 5144 (f)

Comments:


Employee has had an opportunity to ask questions of the PLHCP

Employee has been notified and is aware of his/her status by the PLHCP

The Following Diagnostic Tests where utilized in the determination by the PLHCP

[Medical Clearance Must Be Done Initially \& Annually for Compliance]


TOTAL OCCUPATIONAL HEALTH SERVICES
"WET READ" REPORT


EXAM PERFORMED:

RESULTS:


Normal Exam
Abnormalities Noted - Please see comments below:
COMMENTS: $\qquad$


I hereby grant permission to Palm Medical Group to release the results of my x-ray to my health care provider. In the case of screening for employment or pre-employment, I authorize Palm Medical Group to release the X-ray results to my employer or prospective employer and/or their authorized health care professionals.


222 West Shaw Ave. Fresno, CA 93704 Telephone: 559-222-9200 Fax: 559-222-9201 www.palmmedical.com

## Insurance

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES RELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED
'?RESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.
inipORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

| PRODUCER |  |
| :--- | :--- |
| Hub International |  |
| HUB Int'I Insurance Serv. Inc. |  |
| 6701 Center Dr West \#1500 |  |
| Los Angeles, CA 90045 |  |
| INSURED | PARC Services Inc. |
|  | 1020 Shannon Court <br>  <br> $\quad$ Livermore, CA 94550 |

## COVERAGES

CERTIFICATE NUMBER:


THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.


DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)
Re: Any and all abatement projects at Fresno Fashion Fair Mall, 755 East Shaw Avenue, Fresno, CA 93726 The Macerich Company is added as an additional insured with respects to the Commercial General Liability,
Contractors Pollution Liability and Auto Liability.

## CERTIFICATE HOLDER

The Macerich Company
401 Wilshire Blvd., Suite 700
Santa Monica, CA 90401-0000

## CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

# ADDITIONAL INSURED - OWNERS, LESSEES OR CONTRACTORS - SCHEDULED PERSON OR ORGANIZATION 

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

SCHEDULE

| Name Of Additional Insured Person(s) <br> Or Organization(s) | Location(s) Of Covered Operations |
| :---: | :---: |
| Where Required By Written Contract |  |

A. Section II - Who Is An Insured is amended to include as an additional insured the person(s) or organization(s) shown in the Schedule, but only with respect to liability for "bodily injury", "property damage" or "personal and advertising injury" caused, in whole or in part, by:

1. Your acts or omissions; or
2. The acts or omissions of those acting on your behalf;
in the performance of your ongoing operations for the additional insured(s) at the location(s) designated above.
However:
3. The insurance afforded to such additional insured only applies to the extent permitted by law; and
4. If coverage provided to the additional insured is required by a contract or agreement, the insurance afforded to such additional insured will not be broader than that which you are required by the contract or agreement to provide for such additional insured.
B. With respect to the insurance afforded to these additional insureds, the following additional exclusions apply:
This insurance does not apply to "bodily injury" or "property damage" occurring after:
5. All work, including materials, parts or equipment furnished in connection with such work, on the project (other than service, maintenance or repairs) to be performed by or on behalf of the additional insured(s) at the location of the covered operations has been completed; or
6. That portion of "your work" out of which the injury or damage arises has been put to its intended use by any person or organization other than another contractor or subcontractor engaged in performing operations for a principal as a part of the same project.
C. With respect to the insurance afforded to these additional insureds, the following is added to Section III - Limits Of Insurance:
If coverage provided to the additional insured is required by a contract or agreement, the most we will pay on behalf of the additional insured is the amount of insurance:
7. Required by the contract or agreement; or
8. Available under the applicable Limits of Insurance shown in the Declarations;
whichever is less.
This endorsement shall not increase the applicable Limits of Insurance shown in the Declarations.

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY. ADDITIONAL INSURED - OWNERS, LESSEES OR CONTRACTORS - COMPLETED OPERATIONS

This endorsement modifies insurance provided under the following:
COMMERCIAL GENERAL LIABILITY COVERAGE PART
PRODUCTS/COMPLETED OPERATIONS LIABILITY COVERAGE PART

## SCHEDULE

| Name Of Additional Insured Person(s) <br> Or Organization(s) | Location And Description Of Completed Operations |
| :--- | :--- |
| Where Required By Written Contract |  |
|  |  |
|  |  |

A. Section II - Who Is An Insured is amended to include as an additional insured the person(s) or organization(s) shown in the Schedule, but only with respect to liability for "bodily injury" or "property damage" caused, in whole or in part, by "your work" at the location designated and described in the Schedule of this endorsement performed for that additional insured and included in the "products-completed operations hazard".
However:

1. The insurance afforded to such additional insured only applies to the extent permitted by law; and
2. If coverage provided to the additional insured is required by a contract or agreement, the insurance afforded to such additional insured will not be broader than that which you are required by the contract or agreement to provide for such additional insured.
B. With respect to the insurance afforded to these additional insureds, the following is added to Section III - Limits Of Insurance:
If coverage provided to the additional insured is required by a contract or agreement, the most we will pay on behalf of the additional insured is the amount of insurance:
3. Required by the contract or agreement; or
4. Available under the applicable Limits of Insurance shown in the Declarations;
whichever is less.
This endorsement shall not increase the applicable Limits of Insurance shown in the Declarations.

## THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY. DESIGNATED INSURED

This endorsement modifies insurance provided under the following:
BUSINESS AUTO COVERAGE FORM
GARAGE COVERAGE FORM
MOTOR CARRIER COVERAGE FORM
TRUCKERS COVERAGE FORM

With respect to coverage provided by this endorsement, the provisions of the Coverage Form apply unless modified by this endorsement.
This endorsement identifies person(s) or organization(s) who are "insureds" under the Who Is An Insured Provision of the Coverage Form. This endorsement does not alter coverage provided in the Coverage Form.
This endorsement changes the policy effective on the inception date of the policy unless another date is indicated below.

| Endorsement Effective: 01/01/2014 | Countersigned By: |
| :--- | :--- | :--- |
| Named Insured: Professional Asbestos Removal <br> Corporation |  |

SCHEDULE
$\square$
(If no entry appears above, information required to complete this endorsement will be shown in the Declarations as applicable to the endorsement.)

Each person or organization shown in the Schedule is an "insured" for Liability Coverage, but only to the extent that person or organization qualifies as an "insured" under the Who is An Insured Provision contained in Section II of the Coverage Form.

# Primary and Non-contributory, Additional Insured and Waiver of Subrogation 

## Policy Number: SISIEIL70145414 Effective Date: 1/1/2014 at 12:01 A.M. Named Insured: PROFESSIONAL ASBESTOS REMOVAL CORPORATION

This endorsement modifies the insurance coverage form(s) listed below that have been purchased by you and evidenced as such on the Declarations page. Please read the endorsement and respective policy(ies) carefully.

Commercial General Liability Coverage Form Owners and Contractors Protective Liability Coverage form<br>Products/Completed Operations Liability Coverage Form<br>Contractors Pollution Liability Coverage Form<br>Professional Liability Coverage Form<br>Site Pollution Liability Coverage Form

## SCHEDULE

All as required by written, signed or executed contract.
A. SECTION II - WHO IS AN INSURED is amended to include as an insured the person or organization shown in the schedule of this endorsement, but only with respect to liability arising out of "your work" for that insured by or for you.
B. As respects additional insureds as defined above, this insurance also applies to "bodily injury" or "property damage" arising out of your negligence when the following written contract requirements are applicable:

1. Coverage available under this coverage part shall apply as primary insurance. Any other insurance available to these additional insured's shall apply as excess and not contribute as primary to the insurance afforded by this endorsement.
2. We waive any right of recovery we may have against these additional insured's because of payments we make for injury or damage arising out of "your work" done under a written contract with the additional insured.
3. The term insured is used separately and not collectively, but the inclusion of more than one insured shall not increase the limits or coverage provided by this insurance.

Insureds and Agents are advised that certificates of insurance should be used only to provide evidence of insurance in lieu of an actual copy of the applicable insurance policy. Certificates should not be used to amend, expand or otherwise alter the terms of the actual policy.

ALL OTHER TERMS AND CONDITIONS REMAIN UNCHANGED.
Signed for STARR INDEMNITY \& LIABILITY COMPANY


Charles H. Dangelo, President


Nehemiah E. Ginsburg, General;Counsel



Contact

Title

## Contact Information for

## TEAM CONTACT INFORMATION

| Contact | The Location |
| :---: | :---: |
| Don Hallman | Primary Contacts and Sales <br> Sr. Vice President, National Accounts 888 S. Figueroa Street, Suite 2100 Los Executive/Commercial Services/Major Angeles, CA 90017 Accounts Tel: 213.330.3048/Cell: 818.203.4723 DHallman@cltic.com |
| Mai Ly Marsh | Title Coordination <br> AVP, Sr. National Title Coordinator/ Commercial Services <br> 888 S. Figuero Street., Ste 2100 <br> Los Angeles, CA 90017 TEL(213-330-3071 |
| Diana Magana | Assistant National Title Coordinator/ Commercial Services |
| Mai Ly Marsh | Escrow / Closer |
| Diana Magana | Assistant to Mai-Ly Marsh |
|  | Diana.magana@oltic.com |
| William Shebesta | National Counsel |
|  | National Commercial Manager/ Underwriting Counsel <br> 888 S. Figueroa Street, Suite 2100 Los <br> Angeles, CA 90017 <br> Tel: 213.330.3049 |
|  | wShebesta@clic.com |

## COMMITMENT FOR TITLE INSURANCE

## Issued by

## Commonwealth Land Title Insurance Company

Commonwealth Land Title Insurance Company, a Nebraska corporation ("Company"), for a valuable consideration, commits to issue its policy or policies of title insurance, as identified in Schedule A, in favor of the Proposed Insured named in Schedule A, as owner or mortgagee of the estate or interest in the land described or referred to in Schedule A, upon payment of the premiums and charges and compliance with the Requirements; all subject to the provisions of Schedules A and B and to the Conditions of this Commitment.

This Commitment shall be effective only when the identity of the Proposed Insured and the amount of the policy or policies committed for have been inserted in Schedule A by the Company.

All liability and obligation under this Commitment shall cease and terminate 6 months after the Effective Date or when the policy or policies committed for shall issue, whichever first occurs, provided that the failure to issue the policy or policies is not the fault of the Company.

The Company will provide a sample of the policy form upon request.
IN WITNESS WHEREOF, Commonwealth Land Title Insurance Company has caused its corporate name and seal to be affixed by its duly authorized officers on the date shown in Schedule A.

## Countersigned:

By:


Authorized Officer or Agent

COMMONWEALTH LAND TITLE INSURANCE COMPANY


# COMMITMENT FOR TITLE INSURANCE Issued by 

## Commonwealth Land Title Insurance Company <br> SCHEDULE A

Name and Address of Title Insurance Company:
Commonwealth Land Title Company
Los Angeles, CA 90221
Order No.: 09170504-917-MCM-JM0
Title Officer: Jeff Martin
Email: jeff.martin@fnf.com
Phone No.: (925) 288-8062

1. Effective Date: October 19, 2016
2. Policy or Policies to be issued:
a. ALTA Extended Owner's Policy of Title Insurance (6-17-06)

Proposed Insured: To Be Determined

Liability: To Be Determined
3. The estate or interest in the land described or referred to in this Commitment is:

A FEE
4. Title to the estate or interest in the land is at the Effective Date vested in:

## Northgate Mall Associates, a California General Partnership

5. The land referred to in this Commitment is situated in the County of Marin, State of California, and is described as follows:

As Fully Set forth on Exhibit A attached hereto and by this reference incorporated herein.

## EXHIBIT A

## LEGAL DESCRIPTION

All that certain real property situated in the City of San Rafael, County of Marin, State of California, described as follows:
City of San Rafael
BEGINNING at a point on the Easterly boundary of Northgate Drive, as shown on that certain map entitled "Map of Northgate Regional Shopping Center", recorded September 10, 1963 in Volume 12 of Maps at Page 19, Marin County Records, which point is the Southerly terminus of the course "N $32^{\circ} 00^{\prime} 00^{\prime \prime} \mathrm{E} .294 .85^{\prime \prime}$ ", as shown on said map; thence along the boundaries of Northgate Drive, of Las Gallinas Avenue and of Los Ranchitos Road, as shown on said map, the following courses and distances: North $32^{\circ} 00^{\prime} 00^{\prime \prime}$ East, 294.85 feet; thence along a curve to the left, whose center bears North $58^{\circ} 00^{\prime}$ $00^{\prime \prime}$ West, having a radius of 1304.00 feet through a central angle of $37^{\circ} 43^{\prime} 06^{\prime \prime}$, a distance of 858.44 feet; thence along a curve to the right, whose center bears North $84^{\circ} 16^{\prime} 54^{\prime \prime}$ East, having a radius of 30.00 feet through a central angle of $109^{\circ} 13^{\prime}$ $06^{\prime \prime}$, a distance of 57.19 feet; thence South $76^{\circ} 30^{\prime} 00^{\prime \prime}$ East 10.81 feet; thence along a curve to the right, whose center bears South $13^{\circ} 30^{\prime} 00^{\prime \prime}$ West, having a radius of 427.89 feet through a central angle of $19^{\circ} 47^{\prime} 56^{\prime \prime}$, a distance of 147.86 feet; thence South $56^{\circ} 42^{\prime} 04^{\prime \prime}$ East 32.12 feet; thence along a curve to the left, whose center bears North $33^{\circ} 17^{\prime} 56^{\prime \prime}$ East, having a radius of 730.04 feet, through a central angle of $26^{\circ} 24^{\prime} 46^{\prime \prime}$, a distance of 336.54 feet; thence South $83^{\circ} 06^{\prime} 50^{\prime \prime}$ East, 330.92 feet; thence along a curve to the right, whose center bears South $6^{\circ} 53^{\prime} 10^{\prime \prime}$ West, having a radius of 170.01 feet through a central angle of $83^{\circ} 00^{\prime} 21^{\prime \prime}$, a distance of 246.30 feet; thence South $0^{\circ} 06^{\prime} 29^{\prime \prime}$ East, 102.13 feet; thence South $0^{\circ} 04^{\prime} 50^{\prime \prime}$ West 112.63 feet; thence along a non-tangent curve to the right whose center bears South $89^{\circ} 50^{\prime} 48^{\prime \prime}$ West, having a radius of 970.00 feet, through a central angle of $29^{\circ} 33^{\prime} 10^{\prime \prime}$, a distance of 500.32 feet; thence South $29^{\circ} 23^{\prime} 52^{\prime \prime}$ West, 100.00 feet; thence along a non-tangent curve to the left, whose center bears South $60^{\circ} 35^{\prime} 50^{\prime \prime}$ East, having a radius of 780.00 feet through a central angle of $43^{\circ} 51^{\prime} 22^{\prime \prime}$, a distance of 597.04 feet; thence South $14^{\circ} 28^{\prime} 26^{\prime \prime}$ East, 100.65 feet; thence along a curve to the right, whose center bears South $75^{\circ} 31^{\prime} 34^{\prime \prime}$ West, having a radius of 50.00 feet through a central angle of $89^{\circ} 59^{\prime}$ $48^{\prime \prime}$, a distance of 78.54 feet; thence South $75^{\circ} 31^{\prime} 22^{\prime \prime}$ West 518.22 feet; thence along a curve to the right, whose center bears North $14^{\circ} 28^{\prime} 38^{\prime \prime}$ West, having a radius of 224.00 feet through a central angle of $85^{\circ} 18^{\prime} 00^{\prime \prime}$ a distance of 333.48 feet; thence along a curve to the left, whose center bears South $70^{\circ} 49^{\prime} 22^{\prime \prime}$ West, having a radius of 291.67 feet through a central angle of $38^{\circ} 49^{\prime} 22^{\prime \prime}$ a distance of 197.63 feet; thence North $58^{\circ} 00^{\prime} 00^{\prime \prime}$ West, 65.94 feet and thence along a curve to the right, whose center bears North $32^{\circ} 00^{\prime} 00^{\prime \prime}$ East, having a radius of 446.00 feet through a central angle of $90^{\circ} 00^{\prime} 00^{\prime \prime}$ a distance of 700.58 feet to the POINT OF BEGINNING.

EXCEPTING THEREFROM that portion of said land as described in the Deed to the City of San Rafael, dated November 15, 1984 and recorded January 11, 1985 as Instrument No. 85001287, Marin County Records, and more particularly described as follows:

BEGINNING at a point on the Southerly boundary of Las Gallinas Avenue, as shown on that certain map entitled "Map of Northgate Regional Shopping Center", recorded September 10, 1963 in Volume 12 of Maps at Page 19, Marin County Records, at the Westerly terminus of the course shown as "South $76^{\circ} 30^{\prime} 00^{\prime \prime}$ East, 10.81 feet", on said map (12 RM 19); thence along said Southerly boundary of Las Gallinas Avenue (12 RM 19) the following courses and distances: South $76^{\circ} 30^{\prime}$ $00^{\prime \prime}$ East 10.81 feet; thence Southeasterly along a curve to the right, tangent to the preceding course, having a radius of 427.89 feet through a central angle of $19^{\circ} 47^{\prime} 56^{\prime \prime}$, an arc length of 147.86 feet; thence South $56^{\circ} 42^{\prime} 04^{\prime \prime}$ East, 32.12 feet and thence Southeasterly along a curve to the left, tangent to the preceding course, having a radius of 730.04 feet through a central angle of $16^{\circ} 00^{\prime} 00^{\prime \prime}$, an arc length of 203.87 feet; thence leaving said Southerly boundary ( 12 RM 19) North $72^{\circ} 42^{\prime}$ $04^{\prime \prime}$ West, 71.15 feet; thence Northwesterly along a curve to the right, tangent to the preceding course, having a radius of 481.90 feet through a central angle of $16^{\circ} 00^{\prime} 00^{\prime \prime}$, an arc length of 134.57 feet; thence North $56^{\circ} 42^{\prime} 04^{\prime \prime}$ West, 32.12 feet; thence Northwesterly along a curve to the left, tangent to the preceding course, having a radius of 417.89 feet through a central angle of $19^{\circ} 47^{\prime} 56^{\prime \prime}$, an arc length of 144.40 feet; thence North $76^{\circ} 30^{\prime} 00^{\prime \prime}$ West, 17.91 feet; thence Westerly along a curve to the left, tangent to the preceding course, having a radius of 22.48 feet through a central angle of $109^{\circ} 13^{\prime} 06^{\prime \prime}$, an arc length of 42.85 feet to the point of reverse curve on the Easterly boundary of Northgate Drive, as shown on said map (12 RM 19); thence along said Easterly boundary of Northgate Drive (12 RM 19) Northerly along a curve to the right, whose center bears North $84^{\circ} 16^{\prime} 54^{\prime \prime}$ East, having a radius of 30.00 feet through a central angle of $109^{\circ} 13^{\prime} 06^{\prime \prime}$, an arc length of 57.19 feet to the POINT OF BEGINNING.

ALTA Commitment - 2006
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## EXHIBIT A

## (Continued)

ALSO EXCEPTING THEREFROM that portion of said land as described in the Deed to the City of San Rafael, dated November 15, 1984, recorded January 11, 1985 as Instrument No. 85001288, Marin County Records, and more particularly described as follows:

BEGINNING at a point on the Westerly boundary of Los Ranchitos Road, as shown on the "Map of Northgate Regional Shopping Center", recorded September 10, 1963 in Volume 12 of Maps at Page 19, Marin County Records; at the Northerly terminus of the course shown as "South $29^{\circ} 23^{\prime} 52^{\prime \prime}$ West, 100.00 feet" on said map ( 12 RM 19); thence along said Westerly boundary of Los Ranchitos Road (12 RM 19) South $29^{\circ} 23^{\prime} 52^{\prime \prime}$ West, 100.00 feet and thence Southwesterly along a curve to the left, whose center bears South $60^{\circ} 35^{\prime} 50^{\prime \prime}$ East, having a radius of 780.00 feet through a central angle of $3^{\circ} 31^{\prime} 22^{\prime \prime}$, an arc length of 47.96 feet; thence leaving said Westerly boundary ( 12 RM 19) Northeasterly along a curve to the left, whose center bears North $64^{\circ} 07^{\prime} 12^{\prime \prime}$ West, having a radius of 32.00 feet through a central angle of $24^{\circ} 34^{\prime} 59^{\prime \prime}$, an arc length of 13.73 feet; thence Northeasterly along a reverse curve to the right, whose center bears South $88^{\circ} 42^{\prime} 11^{\prime \prime}$ East, having a radius of 48.00 feet through a central angle of $21^{\circ} 45^{\prime} 26^{\prime \prime}$, an arc length of 18.23 feet; thence North $23^{\circ} 03^{\prime} 15^{\prime \prime}$ East, 43.20 feet; thence Northeasterly along a curve to the right, tangent to the preceding course, having a radius of 100.00 feet through a central angle of $16^{\circ} 40^{\prime} 58^{\prime \prime}$, an arc length of 29.12 feet; thence North $39^{\circ} 44^{\prime} 13^{\prime \prime}$ East, 24.02 feet; thence Northeasterly along a curve to the right, tangent to the preceding course, having a radius of 58.00 feet through a central angle of $12^{\circ} 41^{\prime} 56^{\prime \prime}$, an arc length of 12.86 feet; thence Northeasterly along a reverse curve to the left, whose center bears North $37^{\circ} 33^{\prime} 51^{\prime \prime}$ West, having a radius of 42.00 feet, through a central angle of $23^{\circ} 27^{\prime} 17^{\prime \prime}$, an arc length of 17.19 feet to said Westerly boundary of Los Ranchitos Road (12 RM 19); thence along said Westerly boundary ( 12 RM 19), Southwesterly along a curve to the right, whose center bears North $61^{\circ} 01^{\prime} 08^{\prime \prime}$ West, having a radius of 970.00 feet through a central angle of $0^{\circ} 25^{\prime} 06^{\prime \prime}$, an arc length of 7.08 feet to the POINT OF BEGINNING.

APN: 175-060-12, 175-060-40, 175-060-59, 175-060-61, 175-060-66 \& 175-060-67

## SCHEDULE B - SECTION I

## REQUIREMENTS

The following are requirements to be complied with:

1. Instrument creating the estate or interest to be insured must be executed and filed for record, to wit:

To Be Determined
2. Pay the full consideration to, or for the account of, the grantors or mortgagors.
3. Pay all taxes, charges, assessments, levied and assessed against subject premises, which are due and payable.
4. Satisfactory evidence should be had that improvements and/or repairs or alterations thereto are completed; that contractor, sub-contractors, labor and materialmen are all paid; and have released of record all liens or notice of intent to perfect a lien for labor or material.
5. Original note, deed of trust and properly signed request for full reconveyance, or the executed full reconveyance for the deed of trust shown as Item No. To Be Determined .
6. Pay the demand(s) of Item No. To Be Determined .
7. Prior to close of escrow, please contact the Tax Collector's Office to confirm all amounts owing, including current fiscal year taxes, supplemental taxes, escaped assessments and any delinquencies.
8. If the entity named below does NOT operate under the Uniform Partnership Act, the Company will require the following documents for review prior to the issuance of any title insurance predicated upon a conveyance or encumbrance from:

Name: $\quad$ Northgate Mall Associates, a California General Partnership
a) A complete copy of the partnership agreement and all amendments thereto
b) If less than all partners are executing documents, furnish evidence of the signing partners' authority, unless the authority is granted in the above-referenced agreements.

The Company reserves the right to add additional items or make further requirements after review of the requested documentation.
9. The Company will require that an Owner's Affidavit be completed by the party(s) named below before the issuance of any policy of title insurance.

Party(s): Northgate Mall Associates, a California General Partnership
The Company reserves the right to add additional items or make further requirements after review of the requested Affidavit.
10. The requirement that the complete and correct name(s) of the buyer(s) in this transaction be submitted to the Title Department at least 5 days prior to the close of Escrow.

## SCHEDULE B - Section I

## (Continued)

11. This transaction requires high liability approval prior to close of escrow together with an inspection of the subject property.

Please advise title department with an estimated date that your transaction will close so we can schedule the necessary approvals and inspections.
12. The transaction contemplated in connection with this Report is subject to the review and approval of the Company's Corporate Underwriting Department. The Company reserves the right to add additional items or make further requirements after such review.

## END OF SCHEDULE B - SECTION I

## SCHEDULE B - SECTION II

## EXCEPTIONS

Schedule B of policy or policies to be issued will contain exceptions to the following matters unless the same are disposed of to the satisfaction of the Company:
A. Property taxes, including any personal property taxes and any assessments collected with taxes are as follows:

| Code Area: | 008035 |
| :--- | :--- |
| Tax Identification No.: | $175-060-12$ |
| Fiscal Year: | $2016-2017$ |
| 1st Installment: | $\$ 140,071.69$, Open |
| 2nd Installment: | $\$ 140,071.69$, Open |
| Exemption: | $\$ 0.00$ |
| Land: | $\$ 2,806,520.00$ |
| Improvements: | $\$ 18,242,380.00$ |
| Personal Property: | $\$ 0.00$ |
| Bill No.: | $16-1038076$ |

Affects: A portion of the Land described herein.
B. Property taxes, including any personal property taxes and any assessments collected with taxes are as follows:

| Code Area: | 008035 |
| :--- | :--- |
| Tax Identification No.: | $175-060-40$ |
| Fiscal Year: | $2016-2017$ |
| 1st Installment: | $\$ 167,917.10$, Open |
| 2nd Installment: | $\$ 167,917.10$, Open |
| Exemption: | $\$ 0.00$ |
| Land: | $\$ 7,947,720.00$ |
| Improvements: | $\$ 18,839,040.00$ |
| Personal Property: | $\$ 0.00$ |
| Bill No.: | $16-1038084$ |

Affects: A portion of the Land described herein.
C. Property taxes, including any personal property taxes and any assessments collected with taxes are as follows:

| Code Area: | 008035 |
| :--- | :--- |
| Tax Identification No.: | $175-060-59$ |
| Fiscal Year: | $2016-2017$ |
| 1st Installment: | $\$ 22,374.90$, Open |
| 2nd Installment: | $\$ 22,374.90$, Open |
| Exemption: | $\$ 0.00$ |
| Land: | $\$ 1,135,452.00$ |
| Improvements: | $\$ 0.00$ |
| Personal Property: | $\$ 0.00$ |
| Bill No.: | $16-1038087$ |

Affects: A portion of the Land described herein.

## SCHEDULE B - Section II (Continued)

D. Property taxes, including any personal property taxes and any assessments collected with taxes are as follows:

| Code Area: | 008035 |
| :--- | :--- |
| Tax Identification No.: | $175-060-61$ |
| Fiscal Year: | $2016-2017$ |
| 1st Installment: | $\$ 29,935.84$, Open |
| 2nd Installment: | $\$ 29,935.84$, Open |
| Exemption: | $\$ 0.00$ |
| Land: | $\$ 1,650,900.00$ |
| Improvements: | $\$ 3,214,987.00$ |
| Personal Property: | $\$ 0.00$ |
| Bill No.: | $16-1038088$ |
| Affects: | A portion of the Land described herein. |

E. Property taxes, including any personal property taxes and any assessments collected with taxes are as follows:

| Code Area: | 008035 |
| :--- | :--- |
| Tax Identification No.: | $175-060-66$ |
| Fiscal Year: | $2016-2017$ |
| 1st Installment: | $\$ 47,331.36$, Open |
| 2nd Installment: | $\$ 47,331.36$, Open |
| Exemption: | $\$ 0.00$ |
| Land: | $\$ 3,325,659.00$ |
| Improvements: | $\$ 4,688,634.00$ |
| Personal Property: | $\$ 0.00$ |
| Bill No.: | $16-1038089$ |

Affects: A portion of the Land described herein.
F. Property taxes, including any personal property taxes and any assessments collected with taxes are as follows:

| Code Area: | 008035 |
| :--- | :--- |
| Tax Identification No.: | $175-060-67$ |
| Fiscal Year: | $2016-2017$ |
| 1st Installment: | $\$ 558,298.39$, Open |
| 2nd Installment: | $\$ 558,298.39$, Open |
| Exemption: | $\$ 0.00$ |
| Land: | $\$ 25,000,000.00$ |
| Improvements: | $\$ 53,000,000.00$ |
| Personal Property: | $\$ 1,020,759.00$ |
| Business Property: | $\$ 982,820.00$ |
| Bill No.: | $16-1038090$ |

Affects: A portion of the Land described herein.

## SCHEDULE B - Section II <br> (Continued)

1. Easement(s) for the purpose(s) shown below and rights incidental thereto as granted in a document.

Granted to: Marin Municipal Water District
Purpose: Easement 10 feet in width for pipeline purposes, together with appurtenances and rights incidental thereto
Recorded: June 20, 1960, Instrument No. 16695, Book 1378, Page 342, of Official Records
Reference is made to said document for full particulars.
2. An unrecorded lease with certain terms, covenants, conditions and provisions set forth therein as disclosed by the document

Entitled: Memorandum of Lease
Lessor: Draper Shopping Centers, Inc.
Lessee: The Emporium Capwell Company
Recorded: October 19, 1962, Instrument No. 37384, Book 1622, Page 232, of Official Records
Assignment of lessor's interest to M \& T Incorporated recorded January 13, 1966, Instrument No. 1317, Book 2016 Page 476, Official Records.

Lease was amended by modification letters dated May 12, 1964, January 25, 1965 and August 19, 1970 as disclosed by the Amendment to Lease recorded May 9, 1975, Instrument No. 14942, Book 2893, Page 538, Official Records.

An agreement to amend or modify certain provisions of said lease, as set forth in the document executed by:

| As Lessor: | M \& T Incorporated, a Nevada corporation |
| :--- | :--- |
| As Lessee: | Carter Hawley Hale Stores, Inc. |
| Recorded: | May 9, 1975, Instrument No. 14942, Book 2893, Page 538, of Official Records |

A Deed and Assignment of lessee's interest under said lease from Carter Hawley Hale Stores, Inc. a California corporation successor to The Emporium Capwell Company to Broad Rafael Properties Corporation, a Delaware corporation recorded May 9, 1975, Instrument No. 14943, Book 2893, Page 552, Official Records.

Deed of Lessee's interest from Broad Rafael Properties Corp., a Delaware corporation to Broad Rafael Associates (Limited Partnership), a Pennsylvania limited partnership recorded November 26, 1975, Instrument No. 44115, Book 2967, Page 15, Official Records.

An Assignment of Lessee's interest from Broad Rafael Properties Corp., a Delaware corporation to Broad Rafael Associates (Limited Partnership), a Pennsylvania limited partnership recorded November 26, 1975, Instrument No. 44115, Book 2967, Page 21, Official Records.

## SCHEDULE B - Section II (Continued)

Assumption Agreement executed by Broad Rafael Associates (Limited Partnership), a Pennsylvania limited partnership recorded September 8, 1976, Instrument No. 39951, Book 3084, Page 168, Official Records.

An Assignment and Assumption of Lessor's interest in Leases and in Ground Leases
$\begin{array}{ll}\text { Assignor: } & \text { M \& T Properties Inc., a Delaware corporation } \\ \text { Assignee: } & \text { Northgate Mall Associates, a California general partnership } \\ \text { Recorded: } & \text { December 4, 1985 as Instrument No. } 85053831 \text { and } 85053832, \text { Official Records }\end{array}$
Second Amendment to Lease dated October 16, 1984 as disclosed in the Assignment and Assumption of Lessor's Interest in Ground Lease recorded December 4, 1985, Instrument No. 85053832, Official Records.

An instrument entitled "Nondisturbance and Attornment Agreement" dated December 23, 2009, by and among Broad Rafael Associates (Limited Partnership), a Pennsylvania limited partnership, Northgate Mall Associates, a California general partnership, and U.S. Bank National Association, a National Banking Association, recorded December 31, 2009, Instrument No. 2009-72021, Official Records, and being subject to the terms, conditions and provisions therein.

The present ownership of the leasehold created by said lease and other matters affecting the interest of the lessee are not shown herein.
3. Easement(s) for the purpose(s) shown below and rights incidental thereto as granted in a document.

Granted to: Marin Municipal Water District
Purpose: $\quad$ Right of way together with appurtenances and rights incidental thereto
Recorded: September 1, 1963, Instrument No. 35112, Book 1722, Page 522, of Official Records
Reference is made to said document for full particulars.
4. Easement(s) for the purpose(s) shown below and rights incidental thereto as delineated or as offered for dedication, on the map filed September 15, 1963, in Book 12 of Maps at Page 19, Marin County Records.
\(\left.$$
\begin{array}{ll}\text { Purpose: } & \begin{array}{l}\text { Centerline 10' storm drain } \\
\text { Affects: }\end{array} \\
\begin{array}{ll}\text { As shown on map }\end{array}
$$ <br>
Purfese: \& Centerline 20' storm drain <br>

As shown on map\end{array}\right]\)| Storm drain |
| :--- |
| Affects: | | As shown on map |
| :--- |
| Purpose: |

## SCHEDULE B - Section II <br> (Continued)

A portion of said public utility easement was abandoned by resolution of the City of San Rafael, recorded January 8, 1971 in Book 2429 of Official Records at page 91, Instrument No. 751.

The easement shown as "Existing 10' P.T.\&T. Easement (620 OR 365)" was Quitclaimed by Pacific Telephone and Telegraph Company by that certain instrument recorded November 20, 1963 in Book 1751 of Official Records at page 576, Instrument No. 47055.

The easement shown as "Exist, 10' P.T.\&T. Easement (Not of Record)" was recorded November 26, 1962 in Book 1634 of Official Records at Page 60, Instrument No. 42036, and Quitclaimed by those certain instruments recorded November 8, 1971 in Book 2517 of Official Records at Page 78, Instrument No. 40493, and January 14, 1985 under Recorder's Serial No. 85-001419, Official Records.

A portion of the 10 ' storm drain easement was vacated by Resolution No. 12793 of the City of San Rafael recorded July 27, 2009, as Instrument No. 2009-0042656, Official Records.
5. Easement(s) for the purpose(s) shown below and rights incidental thereto as granted in a document.

Granted to: Marin Municipal Water District
Purpose: Pipe line and access purposes together with appurtenances and rights incidental thereto
Recorded: January 2, 1964, Instrument No. 165, Book 1765, Page 562, of Official Records

A portion of said easement was Quitclaimed by those certain instrument recorded November 8, 1971 in Book 2517 of Official Records at Page 80 as Instrument No. 40494 and October 28, 1965 under Recorder's Serial No. 85047268, Marin County Records.

Reference is made to said document for full particulars.
6. Easement(s) for the purpose(s) shown below and rights incidental thereto as granted in a document.

Granted to: Marin Municipal Water District
Purpose: Easement 15 feet in width for pipeline, together with appurtenances and rights incidental thereto
Recorded: April 23, 1965, Instrument No. 14319, Book 1933, Page 217, of Official Records
A portion of said easements were Quitclaimed by that certain instrument recorded October 28, 1985 under Recorder's Serial No. 85-047268, Marin County Records.

Reference is made to said document for full particulars.
7. Easement(s) for the purpose(s) shown below and rights incidental thereto as granted in a document.

Granted to: $\quad$ Marin Municipal Water District
Purpose: Easement 10 feet in width for pipeline purposes, together with appurtenances and incidental thereto
Recorded: October 21, 1969, Instrument No. 30578, Book 2334, Page 318, of Official Records
Reference is made to said document for full particulars.

## SCHEDULE B - Section II <br> (Continued)

8. Easement(s) for the purpose(s) shown below and rights incidental thereto as granted in a document.

Granted to: Pacific Gas and Electric Company
Purpose: Public utilities together with appurtenances and rights incidental thereto
Recorded: January 6, 1971, Instrument No. 387, Book 2428, Page 198, of Official Records
Reference is made to said document for full particulars.
9. Easement(s) for the purpose(s) shown below and rights incidental thereto as granted in a document.

Granted to: Pacific Telephone and Telegraph Company
Purpose: Easement 20 feet in width for communication facilities, together with appurtenances and rights incidental thereto
Recorded: January 28, 1971, Instrument No. 2576, Book 2433, Page 22, of Official Records
Reference is made to said document for full particulars.
10. Easement(s) for the purpose(s) shown below and rights incidental thereto as granted in a document.

Granted to: Pacific Telephone and Telegraph Company
Purpose: Easement 10 feet in width for communication facilities, together with appurtenances and rights incidental thereto
Recorded: January 28, 1971, Instrument No. 2577, Book 2433, Page 26, of Official Records
A portion of said easement was Quitclaimed by that certain instrument recorded November 5, 1985 under Recorder's Serial No. 85-048930, Marin County Records.

Reference is made to said document for full particulars.
11. Easement(s) for the purpose(s) shown below and rights incidental thereto as granted in a document.

Granted to: Marin Municipal Water District
Purpose: Pipeline together with appurtenances and rights incidental thereto
Recorded: March 9, 1971, Instrument No. 6679, Book 2442, Page 198, of Official Records
Reference is made to said document for full particulars.
12. Covenants, conditions and restrictions in the declaration of restrictions but omitting any covenants or restrictions, if any, including, but not limited to those based upon race, color, religion, sex, sexual orientation, familial status, marital status, disability, handicap, national origin, ancestry, or source of income, as set forth in applicable state or federal laws, except to the extent that said covenant or restriction is permitted by applicable law.

Recorded: March 10, 1971, Instrument No. 6805, Book 2442, Page 401, of Official Records

## SCHEDULE B - Section II

## (Continued)

Said covenants, conditions and restrictions provide that a violation thereof shall not defeat the lien of any mortgage or deed of trust made in good faith and for value.
13. An unrecorded lease with certain terms, covenants, conditions and provisions set forth therein as disclosed by the document

Entitled: Short Form of Indenture of Ground Lease
Lessor: M \& T Incorporated, a corporation organized and existing under the laws of the State of Nevada
Lessee: Sears, Roebuck and Co., a New York corporation
Recorded: March 10, 1971, Instrument No. 6806, Book 2442, Page 502, of Official Records
The present ownership of the leasehold created by said lease and other matters affecting the interest of the lessee are not shown herein.
14. Easement(s) for the purpose(s) shown below and rights incidental thereto as granted in a document.

Granted to: $\quad$ Marin Municipal Water District
Purpose:
Right of way for pipeline together with appurtenances and rights incidental thereto
Recorded: May 20, 1971, Instrument No. 16028, Book 2464, Page 362, of Official Records

Reference is made to said document for full particulars.
15. Easement(s) for the purpose(s) shown below and rights incidental thereto as granted in a document.

Granted to: Pacific Gas and Electric Company
Purpose: Right of way for underground public utilities together with appurtenances and rights incidental thereto
Recorded: March 30, 1972, Instrument No. 10971, Book 2554, Page 21, of Official Records
Reference is made to said document for full particulars.
16. Easement(s) for the purpose(s) shown below and rights incidental thereto as granted in a document.

Granted to: Marin Municipal Water District
Purpose: $\quad$ Right of way for pipelines together with appurtenances and rights incidental thereto
Recorded: April 19, 1972, Instrument No. 13723, Book 2560, Page 2, of Official Records
A portion of said easements were Quitclaimed by that certain instrument recorded October 28, 1985 under Recorder's Serial No. 85-047268, Marin County Records.
17. An unrecorded sublease with certain terms, covenants, conditions and provisions set forth therein as disclosed by the document

Entitled: Lease
Sublessor: Broad Rafael Properties Corporation, a Delaware corporation
Sublessee: Walden Book Company, a New York Corporation
Recorded: May 9, 1975, Instrument No. 14944, Book 2893, Page 562, of Official Records
Deed of Lessee's interest from Broad Rafael Properties Corp., a Delaware corporation to Broad Rafael Associates (Limited Partnership), a Pennsylvania limited partnership recorded November 26, 1975, Instrument No. 44115, Book 2967, Page 15, Official Records.

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## SCHEDULE B - Section II

## (Continued)

An Assignment of Lessee's interest from Broad Rafael Properties Corp., a Delaware corporation to Broad Rafael Associates (Limited Partnership), a Pennsylvania limited partnership recorded November 26, 1975, Instrument No. 44115, Book 2967, Page 21, Official Records.

Assumption agreement executed by Broad Rafael Associates (Limited Partnership), a Pennsylvania limited partnership recorded September 8, 1976, Instrument No. 39951, Book 3084, Page 168, Official Records.

An Assignment of Lease and Agreement by Walden Book Company, Inc., a New York corporation to CHH Realty, Inc., a California corporation recorded October 12, 1984, Instrument No. 84048570, Official Records.

An Assignment and Assumption Agreement dated January 31, 1999 from Broadway Stores, Inc. a Delaware corporation formerly Carter Hawley Hale Stores, Inc. successor by various mesne mergers to Carter Hawley Hale Stores, Inc. a California corporation, Broadway-Hale Stores, Inc., The Emporium Capwell company and Broadway Department Stores, Inc. to Federated Western Properties, Inc., an Ohio corporation, recorded August 3, 2000, Instrument No. 2000-0039709, Official Records.

An instrument entitled "Nondisturbance and Attornment Agreement" dated December 23, 2009, by and among Broad Rafael Associates (Limited Partnership), a Pennsylvania limited partnership, Northgate Mall Associates, a California general partnership, and U.S. Bank National Association, a National Banking Association, recorded December 31, 2009, Instrument No. 2009-72021, of Official Records, and being subject to the terms, conditions and provisions therein.

The present ownership of the leasehold created by said lease and other matters affecting the interest of the lessee are not shown herein.
18. Easement(s) for the purpose(s) shown below and rights incidental thereto as granted in a document.

Granted to: Pacific Gas and Electric Company
Purpose: Easement 10 feet in width for underground pipes for the conveyance of gas, together with appurtenances and rights incidental thereto
Recorded: October 9, 1984, Instrument No. 84-47918, of Official Records
Reference is made to said document for full particulars.
19. Easement(s) for the purpose(s) shown below and rights incidental thereto as granted in a document.

Granted to: Marin Municipal Water District
Purpose: Pipeline together with appurtenances and rights incidental thereto
Recorded: March 14, 1985, Instrument No. 85-9867, of Official Records
A portion of said easement was Quitclaimed by that certain instrument recorded July 17, 1987 under Recorder's Serial No. 87-48758, Marin County Records.

## SCHEDULE B - Section II

## (Continued)

20. Easement(s) for the purpose(s) shown below and rights incidental thereto as granted in a document.

Granted to: Pacific Gas and Electric Company
Purpose: Easement 10 feet in width for underground conduits pipes manholes, etc., together with appurtenances and rights incidental thereto
Recorded: August 7, 1985, Instrument No. 85-33583, of Official Records
Reference is made to said document for full particulars.
21. An unrecorded lease with certain terms, covenants, conditions and provisions set forth therein as disclosed by the document

Entitled: Memorandum of Lease
Lessor: M \& T Properties, Inc.
Lessee: Mervyn's, a California corporation
Recorded: November 14, 1985, Instrument No. 85050401, of Official Records
An Assignment and Assumption of Lessor's Interest in Leases from M \& T Properties, Inc. a Delaware corporation to Northgate Mall Associates, a California general partnership recorded December 4, 1985, Instrument No. 85053831, Official Records.

An Assignment and Assumption Lessor's Interest in Ground Lease from M \& T Properties, Inc. a Delaware corporation to Northgate Mall Associates, a California general partnership recorded December 4, 1985, Instrument No. 85053832 , Official Records.

Amendment to lease by lease modification letter dated February 17, 1986 as disclosed by Assignment and Assumption of Lease recorded January 15, 2008 as Instrument No. 2008-0006283, Official Records.

An Agreement to Amend Lease dated November 19, 1999 as disclosed by Assignment and Assumption of Lease recorded January 15, 2008, as Instrument No. 2008-0006283, Official Records.

An Assignment and Assumption of Lease from Mervyn's LLC, a California limited liability company as successor by conversion to Mervyn's, a California corporation to Macerich Northgate Holdings LLC, a Delaware limited liability company recorded January 15, 2008, as Instrument No. 2008-0002683, Official Records.

An instrument entitled "Nondisturbance and Attornment Agreement" dated December 23, 2009, by and among Broad Rafael Associates (Limited Partnership), a Pennsylvania limited partnership, Northgate Mall Associates, a California general partnership, and U.S. Bank National Association, a national banking association, recorded December 31, 2009, Instrument No. 2009-72021, of Official Records, and being subject to the terms, conditions and provisions therein.

An instrument entitled "Subordination, Non-Disturbance and Attornment Agreement", dated December 23, 2009, by and between Macerich Holdings, LLC, a Delaware limited liability company and U.S. Bank, National Association, a national banking association, and Kohl's Department Stores, Inc., a Delaware Corporation, recorded December 30, 2009, Instrument No. 2009-71734, of Official Records and being subject to terms, conditions, and provisions, contained therein.

The present ownership of the leasehold created by said lease and other matters affecting the interest of the lessee are not shown herein.

## SCHEDULE B - Section II (Continued)

22. Easement(s) for the purpose(s) shown below and rights incidental thereto as granted in a document.

Granted to: Pacific Gas and Electric Company
Purpose: Easement 10 feet in width for public utility purposes, together with appurtenances and rights incidental thereto
Recorded: August 28, 1986, Instrument No. 86-47177, of Official Records
Reference is made to said document for full particulars.
23. Easement(s) for the purpose(s) shown below and rights incidental thereto as granted in a document.

Granted to: Pacific Gas and Electric Company
Purpose: Easement 10 feet in width for public utility easement, together with appurtenances and rights incidental thereto
Recorded: June 19, 1987, Instrument No. 87-41754, of Official Records
Reference is made to said document for full particulars.
24. Easement(s) for the purpose(s) shown below and rights incidental thereto as granted in a document.

Granted to: Pacific Bell
Purpose: Easement 5 feet in width for underground communication facilities, together with appurtenances and rights incidental thereto
Recorded: $\quad$ March 18, 1992, Instrument No. 92-18650, of Official Records
Reference is made to said document for full particulars.
25. Easement(s) for the purpose(s) shown below and rights incidental thereto as granted in a document.

Granted to: Pacific Bell
Purpose: Easement 5 feet in width for communication facilities, together with appurtenances and rights incidental thereto
Recorded: $\quad$ March 18, 1992, Instrument No. 92-18651, of Official Records
Reference is made to said document for full particulars.
26. Easement(s) for the purpose(s) shown below and rights incidental thereto as granted in a document.

Granted to: $\quad$ City of San Rafael, a municipal corporation
Purpose: Traffic signal
Recorded: April 4, 1996, Instrument No. 96-016921, of Official Records
Reference is made to said document for full particulars.

## SCHEDULE B - Section II (Continued)

27. An unrecorded lease with certain terms, covenants, conditions and provisions set forth therein as disclosed by the document

Entitled: Memorandum of Lease and Memorandum of Assignment Lessor: Northgate Mall Associates, a California General Partnership Lessee: Pacific Theatres Exhibition Corp., a California corporation
Recorded: November 13, 2001, Instrument No. 2001-0075385, of Official Records

Assignment of the lessee's interest under said lease,
Assignor: Pacific Theatres Exhibition Corp., a California corporation
Assignee: Northbay Theatres, LLC, a California limited liability company
Recorded: November 13, 2001, Instrument No. 2001-0075385, of Official Records
The present ownership of the leasehold created by said lease and other matters affecting the interest of the lessee are not shown herein.
28. An unrecorded sublease with certain terms, covenants, conditions and provisions set forth therein as disclosed by the document

Entitled: Memorandum of Lease
Sublessor: Macerich Northgate Holdings LLC, a Delaware limited liability company
Sublessee: Mervyn's LLC, a California limited liability company
Recorded: January 15, 2008, Instrument No. 2008-0002684, of Official Records
Matters contained in that certain document entitled "Assignment and Assumption of Lease" dated January 30, 2009, executed by and between Mervyn's LLC, a California limited liability company, and Kohl's Department Stores, Inc., recorded February 6, 2009, Instrument No. 2009-0004922, of Official Records.

Reference is hereby made to said document for full particulars.
All rights and interest of Meryvn's LLC to the building and improvements were quitclaimed to Kohl's Department Stores, Inc. by a Quitclaim Deed recorded February 6, 2009, Instrument No. 2009-0004923, of Official Records.

An Instrument entitled "Subordination, Non-Disturbance and Attornment Agreement," dated December 23, 2009, by and among Macerich Northgate Holdings, LLC, a Delaware limited liability company and U.S. Bank, National Association, a National Banking Association and Kohl's Department Stores, Inc. a Delaware corporation, recorded December 30, 2009, Instrument No. 2009-71734, of Official Records and being subject to terms, conditions, and provisions, contained therein.

The present ownership of the leasehold created by said lease and other matters affecting the interest of the lessee are not shown herein.

## SCHEDULE B - Section II <br> (Continued)

29. Matters contained in that certain document entitled "Development Agreement" dated June 4, 2008, executed by and between The City of San Rafael, a municipal corporation, and Northgate Mall Associates, a California General Partnership, recorded June 9, 2008, Instrument No. 2008-0026807, of Official Records.

Reference is hereby made to said document for full particulars.
A Collateral Assignment of Development Agreement dated December 23, 2009, executed by Northgate Mall Associates, a California general partnership recorded December 30, 2009, Instrument No. 2009-71733, of Official Records.
30. Matters contained in that certain document entitled "License and Maintenance Agreement" dated March 6, 2009, executed by and between City of San Rafael, a municipal corporation, and Northgate Mall Associates, a California General Partnership, recorded March 11, 2009, Instrument No. 2009-0012047, of Official Records.

Reference is hereby made to said document for full particulars.
31. Easement(s) for the purpose(s) shown below and rights incidental thereto as granted in a document.

Granted to: City of San Rafael
Purpose: Public storm drain
Recorded: July 27, 2009, Instrument No. 2009-0042655, of Official Records
Reference is made to said document for full particulars.
32. Easement(s) for the purpose(s) shown below and rights incidental thereto as granted in a document.

Granted to: $\quad$ City of San Rafael
Purpose: Public storm drain
Recorded: July 27, 2009, Instrument No. 2009-0042656, of Official Records
Reference is made to said document for full particulars.
33. An unrecorded lease with certain terms, covenants, conditions and provisions set forth therein as disclosed by the document

Entitled: Memorandum of Lease
Lessor: $\quad$ Northgate Mall Associates, a California general partnership
Lessee: BJ's Restaurants, Inc., a California corporation
Recorded: December 18, 2009, Instrument No. 2009-0069780, of Official Records
An agreement (and the provisions contained therein) which states that said lease is subordinate to the Deed of Trust Recorded:

December 30, 2009, Instrument No. 2009-71732, of Official Records

By document
Recorded: June 4, 2010, Instrument No. 2010-0027149, of Official Records
The present ownership of the leasehold created by said lease and other matters affecting the interest of the lessee are not shown herein.

## SCHEDULE B - Section II (Continued)

34. A deed of trust to secure an indebtedness in the amount shown below, and any other obligations secured thereby

| Amount: | $\$ 60,000,000.00$ |
| :--- | :--- |
| Dated: | December 23, 2009 |
| Trustor: | Northgate Mall Associates, a California General Partnership, Macerich Northgate |
|  | Holdings LLC, a Delaware limited liability company, Broad Rafael Associates (Limited <br>  <br> Partnership), a Pennsylvania limited partnership |
| Trustee: | Fidelity National Title Company |
| Beneficiary: | U.S. Bank National Association, a National Banking Association |
| Loan No.: | None Shown |
| Recorded: | December 30, 2009, Instrument No. 2009-71732, of Official Records |

An agreement to modify the terms and provisions of said deed of trust as therein provided

| Executed by: | Northgate Mall Associates, a California General Partnership, Macerich Northgate |
| :--- | :--- |
|  | Holdings LLC, a Delaware limited liability company, Broad Rafael Associates (Limited |
|  | Partnership), a Pennsylvania limited partnership, AND U.S. Bank National Association, a |
| Recorded: | national banking association |
|  | March 23, 2012, Instrument No. 2012-0018358, of Official Records |

35. Any interest in said land, of the party named below, as disclosed by a Notice of Non-Responsibility

Dated: February 8, 2010
Executed by: Northgate Mall Associates
Recorded: February 9, 2010, Instrument No. 2010-0006643, of Official Records
Party Named: Payless ShoeSource, Inc. dba Payless ShoeSource
Purported interest: Leasehold
The present ownership of the leasehold created by said lease and other matters affecting the interest of the lessee are not shown herein.
36. Any interest in said land, of the party named below, as disclosed by a Notice of Non-Responsibility

Dated: February 8, 2010
Executed by: Northgate Mall Associates
Recorded: February 9, 2010, Instrument No. 2010-0006644, of Official Records
Party Named: Hermann Dungs and Paula Jane Dungs, dba Visionary Opticians
Purported interest: Leasehold
The present ownership of the leasehold created by said lease and other matters affecting the interest of the lessee are not shown herein.

## SCHEDULE B - Section II <br> (Continued)

37. Any interest in said land, of the party named below, as disclosed by a Notice of Non-Responsibility

| Dated: | February 8, 2010 |
| :--- | :--- |
| Executed by: | Northgate Mall Associates |
| Recorded: | February 9, 2010, Instrument No. 2010-0006645, of Official Records |
| Party Named: | Peet's Operating Company, Inc. dba Peet's Coffee and Tea |
| Purported interest: | Leasehold |

The present ownership of the leasehold created by said lease and other matters affecting the interest of the lessee are not shown herein.
38. Any interest in said land, of the party named below, as disclosed by a Notice of Non-Responsibility

Dated: February 16, 2010
Executed by: Northgate Mall Associates
Recorded: February 16, 2010, Instrument No. 2010-0007363, of Official Records
Party Named: Gymboree Retail Stores, Inc., dba crazy 8
Purported interest: Leasehold
The present ownership of the leasehold created by said lease and other matters affecting the interest of the lessee are not shown herein.
39. An instrument entitled "Non-Disturbance and Attornment Agreement" dated April 19, 2010 by and among Broad Rafael Associates, a Pennsylvania limited partnership, Macy's West Stores, Inc., an Ohio corporation, Northgate Mall Associates, a California general partnership, and U.S. Bank National Association, recorded May 18, 2010, Instrument No. 2010-0024361, Official Records and being subject to the terms, conditions and provisions therein.
40. An Instrument entitled "Subordination, Non-Disturbance and Attornment Agreement," dated February 2, 2010, by and between BJ'S Restaurant and Brewhouse, Inc., a California corporation, Northgate Mall Associates, a California general partnership, and U.S. Bank National Association, recorded June 4, 2010, Instrument No. 2010-0027149, Official Records, and being subject to Terms, conditions, and provisions, contained therein.

An Instrument entitled "Subordination, Nondisturbance and Attornment Agreement," dated February 2, 2010, by and between BJ'S Restaurant and Brewhouse, Inc., a California corporation, Northgate Mall Associates, a California general partnership, and U.S. Bank National Association, recorded October 29, 2010, Instrument No. 2010-0054458, Official Records, and being subject to Terms, conditions, and provisions, contained therein.
41. Any interest in said land, of the party named below, as disclosed by a Notice of Non-Responsibility

Dated: June 25, 2010
Executed by: Northgate Mall Associates
Recorded:
Party Named:
June 28, 2010, Instrument No. 2010-0030689, of Official Records
Purported interest:
Zumiez, Inc. dba Zumiez
Leasehold
The present ownership of the leasehold created by said lease and other matters affecting the interest of the lessee are not shown herein.

## SCHEDULE B - Section II <br> (Continued)

42. Any interest in said land, of the party named below, as disclosed by a Notice of Non-Responsibility

| Dated: | June 25, 2010 |
| :--- | :--- |
| Executed by: | Northgate Mall Associates |
| Recorded: | June 28, 2010, Instrument No. 2010-0030690, of Official Records |
| Party Named: | Tomatina International, Inc. dba Tomatina |
| Purported interest: | Leasehold |

The present ownership of the leasehold created by said lease and other matters affecting the interest of the lessee are not shown herein.
43. Any interest in said land, of the party named below, as disclosed by a Notice of Non-Responsibility

Dated: August 9, 2010
Executed by: Northgate Mall Associates
Recorded: August 10, 2010, Instrument No. 2010-0038461, of Official Records
Party Named: Victoria's Secret Stores, LLC, dba Victoria's Secret
Purported interest: Leasehold
The present ownership of the leasehold created by said lease and other matters affecting the interest of the lessee are not shown herein.
44. An unrecorded lease with certain terms, covenants, conditions and provisions set forth therein as disclosed by the document

Entitled: Subordination, Nondisturbance and Attornment Agreement
Lessor: Northgate Mall Associates
Lessee: Forever 21 Retail, Inc., a California corporation
Recorded: $\quad$ October 29, 2010, Instrument No. 2010-0054456, of Official Records
The present ownership of the leasehold created by said lease and other matters affecting the interest of the lessee are not shown herein.
45. An instrument entitled "Subordination, Nondisturbance and Attornment Agreement" dated February 5, 2010 by and among Forever 21 Retail, Inc., a California corporation, Northgate Mall Associates, a California general partnership, and U.S. Bank National Association, recorded October 29, 2010, Instrument No. 2010-0054456, Official Records and being subject to the terms, conditions and provisions therein.
46. An unrecorded lease with certain terms, covenants, conditions and provisions set forth therein as disclosed by the document

Entitled: Acknowledgment, Subordination, Non-Disturbance and Attornment Agreement
Lessor: Northgate Mall Associates
Lessee: Northbay Theatres, LLC., a California limited liability company
Recorded: October 29, 2010, Instrument No. 2010-0054457, of Official Records
The present ownership of the leasehold created by said lease and other matters affecting the interest of the lessee are not shown herein.

## SCHEDULE B - Section II

## (Continued)

47. An instrument entitled "Acknowledgment, Subordination, Non-Disturbance and Attornment Agreement" dated July 14, 2010 by and among Northbay Theatres, LLC., a California limited liability company, Northgate Mall Associates, a California general partnership, and U.S. Bank National Association, recorded October 29, 2010, Instrument No. 2010-0054457, Official Records and being subject to the terms, conditions and provisions therein.
48. An unrecorded lease with certain terms, covenants, conditions and provisions set forth therein as disclosed by the document

Entitled: Subordination, Nondisturbance And Attornment Agreement
Lessor: Northgate Mall Associates
Lessee: Thrifty Payless, Inc.
Recorded: $\quad$ October 29, 2010, Instrument No. 2010-0054459, of Official Records
The present ownership of the leasehold created by said lease and other matters affecting the interest of the lessee are not shown herein.
49. An instrument entitled "Subordination Non-Disturbance and Attornment Agreement" dated December 8, 2009 by and among Thrifty Payless, Inc., and U.S. Bank National Association, recorded October 29, 2010, Instrument No. 2010-0054459, Official Records and being subject to the terms, conditions and provisions therein.
50. An unrecorded lease with certain terms, covenants, conditions and provisions set forth therein as disclosed by the document

Entitled: Subordination, Nondisturbance and Attornment Agreement
Lessor: Northgate Mall Associates
Lessee: H\&M Hennes \& Mauritz L.P., a New York limited partnership
Recorded: October 29, 2010, Instrument No. 2010-0054460, of Official Records
The present ownership of the leasehold created by said lease and other matters affecting the interest of the lessee are not shown herein.
51. An instrument entitled "Subordination Nondisturbance and Attornment Agreement" dated February 12, 2010 by and among H\&M Hennes \& Mauritz L.P., a New York limited partnership, Northgate Mall Associates, a California general partnership, and U.S. Bank National Association, recorded October 29, 2010, Instrument No. 2010-0054460, Official Records and being subject to the terms, conditions and provisions therein.
52. An unrecorded lease with certain terms, covenants, conditions and provisions set forth therein as disclosed by the document

Entitled: Notice of Non-Responsibility
Lessor: $\quad$ Northgate Mall Associates
Lessee: Farid Amiri and Frozan Amiri, dba Brow Art
Recorded: June 27, 2011, Instrument No. 2011-0031815, of Official Records
The present ownership of the leasehold created by said lease and other matters affecting the interest of the lessee are not shown herein.
53. An unrecorded lease with certain terms, covenants, conditions and provisions set forth therein as disclosed by the document

| Entitled: | Notice of Non-Responsibility |
| :--- | :--- |
| Lessor: | Northgate Mall Associates |

# SCHEDULE B - Section II <br> <br> (Continued) 

 <br> <br> (Continued)}

Lessee: Express, LLC, dba Express
Recorded:
August 2, 2011, Instrument No. 2011-0038071, of Official Records
The present ownership of the leasehold created by said lease and other matters affecting the interest of the lessee are not shown herein.
54. An unrecorded lease with certain terms, covenants, conditions and provisions set forth therein as disclosed by the document

Entitled: Notice of Non-Responsibility
Lessor: Northgate Mall Associates
Lessee: Panda Express, Inc., dba Panda Express
Recorded: April 6, 2012, Instrument No. 2012-0021608, of Official Records
The present ownership of the leasehold created by said lease and other matters affecting the interest of the lessee are not shown herein.
55. An unrecorded lease with certain terms, covenants, conditions and provisions set forth therein as disclosed by the document

Entitled: NOTICE OF NON-RESPONSIBILITY
Lessor: Northgate Mall Associates
Lessee: Bin Vo EWC LLC, dba European Wax Center
Recorded: January 8, 2013, Instrument No. 2013-0001585, of Official Records
The present ownership of the leasehold created by said lease and other matters affecting the interest of the lessee are not shown herein.
56. Water rights, claims or title to water, whether or not disclosed by the public records.
57. Any rights of the parties in possession of a portion of, or all of, said Land, which rights are not disclosed by the public records.

The Company will require, for review, a full and complete copy of any unrecorded agreement, contract, license and/or lease, together with all supplements, assignments and amendments thereto, before issuing any policy of title insurance without excepting this item from coverage.

The Company reserves the right to except additional items and/or make additional requirements after reviewing said documents.
58. The Company will require an ALTA/NSPS LAND TITLE SURVEY. If the owner of the Land the subject of this transaction is in possession of a current ALTA/NSPS LAND TITLE SURVEY, the Company will require that said survey be submitted for review and approval; otherwise, a new survey, satisfactory to the Company, must be prepared by a licensed land surveyor and supplied to the Company prior to the close of escrow.

The Company reserves the right to add additional items or make further requirements after review of the requested documentation.
59. Any lien or right to a lien for services, labor or material heretofore or hereafter furnished, imposed by law and not shown by the Public Records.

## SCHEDULE B - Section II

## (Continued)

60. Defects, liens, encumbrances, adverse claims or other matters, if any, created, first appearing in the public records or attaching subsequent to the effective date hereof but prior to the date the proposed Insured acquires for value of record the estate or interest or mortgage thereon covered by this commitment.

## SCHEDULE B - Section II (Continued)

NOTE: AN OWNER'S POLICY ISSUED IN CONNECTION WITH THIS COMMITMENT WILL CONTAIN THE FOLLOWING PRE-PRINTED EXCEPTIONS:

1. Rights or claims of parties other than the Insured in actual possession of any or all of the property.
2. Unrecorded easements, discrepancies or conflicts in boundary lines, shortage in area and encroachments which an accurate and complete survey would disclose.
3. Unfiled mechanic's or materialmen's liens.

## END OF SCHEDULE B - SECTION II

File No: 09170504

## I NFORMATI ONAL NOTES SECTI ON

1. The information on the attached plat is provided for your convenience as a guide to the general location of the subject property. The accuracy of this plat is not guaranteed, nor is it a part of any policy, report or guarantee to which it may be attached.
2. For wiring Instructions please contact your Title Officer or Title Company Escrow officer.
3. Note: The Company is not aware of any matters which would cause it to decline to attach CLTA Endorsement Form 116 indicating that there is located on said Land a Commercial property, known as $\mathbf{5 8 0 0}$ Northgate Mall, San Rafael, CA, to an Extended Coverage Loan Policy.
4. Note: The name(s) of the proposed insured(s) furnished with this application for title insurance is/are:

No names were furnished with the application. Please provide the name(s) of the buyers as soon as possible.
5. Note: There are NO conveyances affecting said Land recorded within 24 months of the date of this report.
6. Note: The charge for a policy of title insurance, when issued through this application for title insurance, will be based on the Short Term Rate.
7. Note: The City of San Rafael imposes a transfer tax of $\$ 2.00$ per thousand, based on the full value of the property at the time a deed or other transfer is recorded. This is in addition to the $\$ 1.10$ per thousand County transfer tax.
8. Your application for title insurance was placed by reference to only a street address or tax identification number. Based on our records, we believe that the legal description in this report covers the parcel(s) of Land that you requested. If the legal description is incorrect, the seller/borrower must notify the Company and/or the settlement company in order to prevent errors and to be certain that the correct parcel(s) of Land will appear on any documents to be recorded in connection with this transaction and on the policy of title insurance.
9. Note: If a county recorder, title insurance company, escrow company, real estate broker, real estate agent or association provides a copy of a declaration, governing document or deed to any person, California law requires that the document provided shall include a statement regarding any unlawful restrictions. Said statement is to be in at least 14-point bold face type and may be stamped on the first page of any document provided or included as a cover page attached to the requested document. Should a party to this transaction request a copy of any document reported herein that fits this category, the statement is to be included in the manner described.
10. Note: Any documents being executed in conjunction with this transaction must be signed in the presence of an authorized Company employee, an authorized employee of an agent, an authorized employee of the insured lender, or by using Bancserv or other approved third-party service. If the above requirement cannot be met, please call the Company at the number provided in this report.

Typist: nb0
Date Typed: November 14, 2016

## CONDITIONS

1. The term mortgage, when used herein, shall include deed of trust, trust deed, or other security instrument.
2. If the proposed Insured has or acquired actual knowledge of any defect, lien, encumbrance, adverse claim or other matter affecting the estate or interest or mortgage thereon covered by this Commitment other than those shown in Schedule B hereof, and shall fail to disclose such knowledge to the Company in writing, the Company shall be relieved from liability for any loss or damage resulting from any act of reliance hereon to the extent the Company is prejudiced by failure to so disclose such knowledge. If the proposed Insured shall disclose such knowledge to the Company, or if the Company otherwise acquires actual knowledge of any such defect, lien, encumbrance, adverse claim or other matter, the Company at its option may amend Schedule B of this Commitment accordingly, but such amendment shall not relieve the Company from liability previously incurred pursuant to paragraph 3 of these Conditions.
3. Liability of the Company under this Commitment shall be only to the named proposed Insured and such parties included under the definition of Insured in the form of policy or policies committed for and only for actual loss incurred in reliance hereon in undertaking in good faith (a) to comply with the requirements hereof, or (b) to eliminate exceptions shown in Schedule B, or (c) to acquire or create the estate or interest or mortgage thereon covered by this Commitment. In no event shall such liability exceed the amount stated in Schedule A for the policy or policies committed for and such liability is subject to the insuring provisions and Conditions and the Exclusions from Coverage of the form of policy or policies committed for in favor of the proposed Insured which are hereby incorporated by reference and are made a part of this Commitment except as expressly modified herein.
4. This Commitment is a contract to issue one or more title insurance policies and is not an abstract of title or a report of the condition of title. Any action or actions or rights of action that the proposed Insured may have or may bring against the Company arising out of the status of the title to the estate or interest or the status of the mortgage thereon covered by this Commitment must be based on and are subject to the provisions of this Commitment.
5. The policy to be issued contains an arbitration clause. All arbitrable matters when the Amount of Insurance is $\$ 2,000,000$ or less shall be arbitrated at the option of either the Company or the Insured as the exclusive remedy of the parties. You may review a copy of the arbitration rules at [http://www.alta.org/](http://www.alta.org/).

## Notice of Available Discounts

Pursuant to Section 2355.3 in Title 10 of the California Code of Regulations Fidelity National Financial, Inc. and its subsidiaries ("FNF") must deliver a notice of each discount available under our current rate filing along with the delivery of escrow instructions, a preliminary report or commitment. Please be aware that the provision of this notice does not constitute a waiver of the consumer's right to be charged the filed rate. As such, your transaction may not qualify for the below discounts.

You are encouraged to discuss the applicability of one or more of the below discounts with a Company representative. These discounts are generally described below; consult the rate manual for a full description of the terms, conditions and requirements for such discount. These discounts only apply to transactions involving services rendered by the FNF Family of Companies. This notice only applies to transactions involving property improved with a one-to-four family residential dwelling.

FNF Underwritten Title Company<br>LTC - Lawyers Title Company

FNF Underwriter<br>CLTIC - Commonwealth Land Title Insurance Co.

## Available Discounts

## DISASTER LOANS (CLTIC)

The charge for a Lender's Policy (Standard or Extended coverage) covering the financing or refinancing by an owner of record, within 24 months of the date of a declaration of a disaster area by the government of the United States or the State of California on any land located in said area, which was partially or totally destroyed in the disaster, will be $50 \%$ of the appropriate title insurance rate.

## EMPLOYEE RATE (LTC and CLTIC)

No charge shall be made to employees (including employees on approved retirement) of the Company or its underwritten, subsidiary or affiliated title companies for policies or escrow services in connection with financing, refinancing, sale or purchase of the employees' bona fide home property. Waiver of such charges is authorized only in connection with those costs which the employee would be obligated to pay, by established custom, as a party to the transaction.

## FIDELITY NATIONAL FINANCIAL PRIVACY NOTICE

At Fidelity National Financial, Inc. and its majority-owned subsidiary companies (collectively, "FNF", "our" or "we"), we value the privacy of our customers. This Privacy Notice explains how we collect, use, and protect your information and explains the choices you have regarding that information. A summary of our privacy practices is below. We also encourage you to read the complete Privacy Notice following the summary.

Types of Information Collected. You may provide us with certain personal information, like your contact information, social security number (SSN), driver's license, other government ID numbers, and/or financial information. We may also receive information from your Internet browser, computer and/or mobile device.

Use of Your Information. We may use your information to provide products and services to you (or someone on your behalf), to improve our products and services, and to communicate with you about our products and services. We do not give or sell your personal information to parties outside of FNF for their use to market their products or services to you.

Choices With Your Information. Your decision to submit personal information is entirely up to you. You can opt-out of certain disclosures or use of your information or choose to not provide any personal information to us.

Information From Children. We do not knowingly collect information from children under the age of 13, and our websites are not intended to attract children.

Access and Correction. If you desire to see the information collected about you and/or correct any inaccuracies, please contact us in the manner specified in this Privacy Notice.

The California Online Privacy Protection Act. Certain FNF websites collect information on behalf of mortgage loan servicers. The mortgage loan servicer is responsible for taking action or making changes to any consumer information submitted through those websites.
Your Consent To This Privacy Notice. By submitting information to us and using our websites, you are accepting and agreeing to the terms of this Privacy Notice.

How Information is Collected. We may collect personal information directly from you from applications, forms, or communications we receive from you, or from other sources on your behalf, in connection with our provision of products or services to you. We may also collect browsing information from your Internet browser, computer, mobile device or similar equipment. This browsing information is generic and reveals nothing personal about the user.
Security Of Your Information. We utilize a combination of security technologies, procedures and safeguards to help protect your information from unauthorized access, use and/or disclosure. We communicate to our employees about the need to protect personal information.

When We Share Information. We may disclose your information to third parties providing you products and services on our behalf, law enforcement agencies or governmental authorities, as required by law, and to parties with whom you authorize us to share your information.

Privacy Outside the Website. We are not responsible for the privacy practices of third parties, even if our website links to those parties' websites.

Do Not Track Disclosures. We do not recognize "do not track" requests from Internet browsers and similar devices.

International Use. By providing us with your information, you consent to the transfer, processing and storage of such information outside your country of residence, as well as the fact that we will handle such information consistent with this Privacy Notice.
Contact FNF. If you have questions or wish to contact us regarding this Privacy Notice, please use the contact information provided at the end of this Privacy Notice.

## FIDELITY NATIONAL FINANCIAL, INC. PRIVACY NOTICE

FNF respects and is committed to protecting your privacy. We pledge to take reasonable steps to protect your Personal Information (as defined herein) and to ensure your information is used in compliance with this Privacy Notice.
This Privacy Notice is only in effect for information collected and/or owned by or on behalf of FNF, including collection through any FNF website or online services offered by FNF (collectively, the "Website"), as well as any information collected offline (e.g., paper documents). The provision of this Privacy Notice to you does not create any express or implied relationship, nor create any express or implied duty or other obligation, between FNF and you.

## Types of Information Collected

We may collect two types of information: Personal Information and Browsing Information.
Personal Information. The types of personal information FNF collects may include, but are not limited to:

- contact information (e.g., name, address, phone number, email address);
- social security number (SSN), driver's license, and other government ID numbers; and
- financial account or loan information.

Browsing Information. The types of browsing information FNF collects may include, but are not limited to:

- Internet Protocol (or IP) address or device ID/UDID, protocol and sequence information;
- browser language;
- browser type;
- domain name system requests;
- browsing history;
- number of clicks;
- hypertext transfer protocol headers; and
- application client and server banners.


## How Information is Collected

In the course of our business, we may collect Personal Information about you from the following sources:

- applications or other forms we receive from you or your authorized representative, whether electronic or paper;
- communications to us from you or others;
- information about your transactions with, or services performed by, us, our affiliates or others; and
- information from consumer or other reporting agencies and public records that we either obtain directly from those entities, or from our affiliates or others.

We may collect Browsing Information from you as follows:

- Browser Log Files. Our servers automatically log, collect and record certain Browsing Information about each visitor to the Website. The Browsing Information includes only generic information and reveals nothing personal about the user.
- Cookies. From time to time, FNF may send a "cookie" to your computer when you visit the Website. A cookie is a
small piece of data that is sent to your Internet browser from a web server and stored on your computer's hard drive. When you visit the Website again, the cookie allows the Website to recognize your computer, with the goal of providing an optimized user experience. Cookies may store user preferences and other information. You can choose not to accept cookies by changing the settings of your Internet browser. If you choose not to accept cookies, then some functions of the Website may not work as intended.


## Use of Collected Information

Information collected by FNF is used for three main purposes:

- To provide products and services to you, or to one or more third party service providers who are performing services on your behalf or in connection with a transaction involving you;
- To improve our products and services; and
- To communicate with you and to inform you about FNF's products and services.


## When We Share Information

We may share your Personal Information (excluding information we receive from consumer or other credit reporting agencies) and Browsing Information with certain individuals and companies, as permitted by law, without first obtaining your authorization. Such disclosures may include, without limitation, the following:

- to agents, representatives, or others to provide you with services or products you have requested, and to enable us to detect or prevent criminal activity, fraud, or material misrepresentation or nondisclosure;
- to third-party contractors or service providers who provide services or perform other functions on our behalf;
- to law enforcement or other governmental authority in connection with an investigation, or civil or criminal subpoenas or court orders; and/or
- to other parties authorized to receive the information in connection with services provided to you or a transaction involving you.

We may disclose Personal Information and/or Browsing Information when required by law or in the good-faith belief that such disclosure is necessary to:

- comply with a legal process or applicable laws;
- enforce this Privacy Notice;
- investigate or respond to claims that any information provided by you violates the rights of a third party; or
- protect the rights, property or personal safety of FNF, its users or the public.
We make efforts to ensure third party contractors and service providers who provide services or perform functions on our behalf protect your information. We limit use of your information to the purposes for which the information was provided. We do not give or sell your information to third parties for their own direct marketing use.
We reserve the right to transfer your Personal Information, Browsing Information, as well as any other information, in connection with the sale or other disposition of all or part of the

FNF business and/or assets, or in the event of our bankruptcy, reorganization, insolvency, receivership or an assignment for the benefit of creditors. You expressly agree and consent to the use and/or transfer of this information in connection with any of the above-described proceedings. We cannot and will not be responsible for any breach of security by any third party or for any actions of any third party that receives any of the information that is disclosed to us.

## Choices With Your Information

Whether you submit your information to FNF is entirely up to you. If you decide not to submit your information, FNF may not be able to provide certain products or services to you. You may choose to prevent FNF from using your information under certain circumstances ("opt out"). You may opt out of receiving communications from us about our products and/or services.

## Security And Retention Of Information

FNF is committed to protecting the information you share with us and utilizes a combination of security technologies, procedures and safeguards to help protect it from unauthorized access, use and/or disclosure. FNF trains its employees on privacy practices and on FNF's privacy and information security policies. FNF works hard to retain information related to you only as long as reasonably necessary for business and/or legal purposes.

## Information From Children

The Website is meant for adults. The Website is not intended or designed to attract children under the age of thirteen (13). We do not collect Personal Information from any person that we know to be under the age of thirteen (13) without permission from a parent or guardian.

## Privacy Outside the Website

The Website may contain links to other websites, including links to websites of third party service providers. FNF is not and cannot be responsible for the privacy practices or the content of any of those other websites.

## International Users

Because FNF's headquarters is located in the United States, we may transfer your Personal Information and/or Browsing Information to the United States. By using our website and providing us with your Personal Information and/or Browsing Information, you understand and consent to the transfer, processing and storage of such information outside your country of residence, as well as the fact that we will handle such information consistent with this Privacy Notice.

## Do Not Track Disclosures

Currently, our policy is that we do not recognize "do not track" requests from Internet browsers and similar devices.

## The California Online Privacy Protection Act

For some websites which FNF or one of its companies owns, such as the Customer CareNet ("CCN"), FNF is acting as a third party service provider to a mortgage loan servicer. In those
instances, we may collect certain information on behalf of that mortgage loan servicer, including:

- first and last name;
- property address;
- user name and password;
- loan number;
- social security number - masked upon entry;
- email address;
- security questions and answers; and
- IP address.

The information you submit is then transferred to your mortgage loan servicer by way of CCN. The mortgage loan servicer is responsible for taking action or making changes to any consumer information submitted through this website. For example, if you believe that your payment or user information is incorrect, you must contact your mortgage loan servicer.
CCN does not share consumer information with third parties, other than those with which the mortgage loan servicer has contracted to interface with the CCN application. All sections of this Privacy Notice apply to your interaction with CCN, except for the sections titled Choices with Your Information, and Access and Correction. If you have questions regarding the choices you have with regard to your personal information or how to access or correct your personal information, contact your mortgage loan servicer.

## Access and Correction

To access your Personal Information in the possession of FNF and correct any inaccuracies, please contact us by email at privacy @fnf.com or by mail at:

Fidelity National Financial, Inc.
601 Riverside Avenue
Jacksonville, Florida 32204
Attn: Chief Privacy Officer

## Your Consent To This Privacy Notice

By submitting Personal Information and/or Browsing Information to FNF, you consent to the collection and use of information by FNF in compliance with this Privacy Notice. We reserve the right to make changes to this Privacy Notice. If we change this Privacy Notice, we will post the revised version on the Website.

## Contact FNF

Please send questions and/or comments related to this Privacy Notice by email at privacy @fnf.com or by mail at:

> Fidelity National Financial, Inc.
> 601 Riverside Avenue
> Jacksonville, Florida 32204
> Attn: Chief Privacy Officer

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EFFECTIVE AS OF APRIL 1, 2016

## ATTACHMENT ONE

## CALI FORNI A LAND TI TLE ASSOCI ATI ON STANDARD COVERAGE POLICY - 1990 <br> EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy and the Company will not pay loss or damage, costs, attorneys' fees or expenses which arise by reason of:

1. (a) Any law, ordinance or governmental regulation (including but not limited to building or zoning laws, ordinances, or regulations) restricting, regulating, prohibiting or relating (i) the occupancy, use, or enjoyment of the land; (ii) the character, dimensions or location of any improvement now or hereafter erected on the land; (iii) a separation in ownership or a change in the dimensions or area of the land or any parcel of which the land is or was a part; or (iv) environmental protection, or the effect of any violation of these laws, ordinances or governmental regulations, except to the extent that a notice of the enforcement thereof or a notice of a defect, lien, or encumbrance resulting from a violation or alleged violation affecting the land has been recorded in the public records at Date of Policy.
(b) Any governmental police power not excluded by (a) above, except to the extent that a notice of the exercise thereof or notice of a defect, lien or encumbrance resulting from a violation or alleged violation affecting the land has been recorded in the public records at Date of Policy.
2. Rights of eminent domain unless notice of the exercise thereof has been recorded in the public records at Date of Policy, but not excluding from coverage any taking which has occurred prior to Date of Policy which would be binding on the rights of a purchaser for value without knowledge.
3. Defects, liens, encumbrances, adverse claims or other matters:
(a) whether or not recorded in the public records at Date of Policy, but created, suffered, assumed or agreed to by the insured claimant;
(b) not known to the Company, not recorded in the public records at Date of Policy, but known to the insured claimant and not disclosed in writing to the Company by the insured claimant prior to the date the insured claimant became an insured under this policy;
(c) resulting in no loss or damage to the insured claimant;
(d) attaching or created subsequent to Date of Policy; or
(e) resulting in loss or damage which would not have been sustained if the insured claimant had paid value for the insured mortgage or for the estate or interest insured by this policy.
4. Unenforceability of the lien of the insured mortgage because of the inability or failure of the insured at Date of Policy, or the inability or failure of any subsequent owner of the indebtedness, to comply with the applicable doing business laws of the state in which the land is situated.
5. Invalidity or unenforceability of the lien of the insured mortgage, or claim thereof, which arises out of the transaction evidenced by the insured mortgage and is based upon usury or any consumer credit protection or truth in lending law.
6. Any claim, which arises out of the transaction vesting in the insured the estate of interest insured by this policy or the transaction creating the interest of the insured lender, by reason of the operation of federal bankruptcy, state insolvency or similar creditors' rights laws.

## EXCEPTI ONS FROM COVERAGE - SCHEDULE B, PART I

This policy does not insure against loss or damage (and the Company will not pay costs, attorneys' fees or expenses) which arise by reason of:

1. Taxes or assessments which are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the public records.

Proceedings by a public agency which may result in taxes or assessments, or notices of such proceedings, whether or not shown by the records of such agency or by the public records.
2. Any facts, rights, interests, or claims which are not shown by the public records but which could be ascertained by an inspection of the land or which may be asserted by persons in possession thereof.
3. Easements, liens or encumbrances, or claims thereof, not shown by the public records.
4. Discrepancies, conflicts in boundary lines, shortage in area, encroachments, or any other facts which a correct survey would disclose, and which are not shown by the public records.
5. (a) Unpatented mining claims; (b) reservations or exceptions in patents or in Acts authorizing the issuance thereof; (c) water rights, claims or title to water, whether or not the matters excepted under (a), (b) or (c) are shown by the public records.
6. Any lien or right to a lien for services, labor or material not shown by the public records.

## CLTA HOMEOWNER'S POLI CY OF TITLE INSURANCE (12-02-13) ALTA HOMEOWNER'S POLI CY OF TI TLE INSURANCE EXCLUSIONS

In addition to the Exceptions in Schedule B, You are not insured against loss, costs, attorneys' fees, and expenses resulting from:

1. Governmental police power, and the existence or violation of those portions of any law or government regulation concerning:
a. building;
b. zoning;
c. land use;
d. improvements on the Land;
e. land division; and
f. environmental protection.

This Exclusion does not limit the coverage described in Covered Risk 8.a., 14, 15, 16, 18, 19, 20, 23 or 27.
2. The failure of Your existing structures, or any part of them, to be constructed in accordance with applicable building codes. This Exclusion does not limit the coverage described in Covered Risk 14 or 15.
3. The right to take the Land by condemning it. This Exclusion does not limit the coverage described in Covered Risk 17.
4. Risks:
a. that are created, allowed, or agreed to by You, whether or not they are recorded in the Public Records;
b. that are Known to You at the Policy Date, but not to Us, unless they are recorded in the Public Records at the Policy Date;
c. that result in no loss to You; or
d. that first occur after the Policy Date - this does not limit the coverage described in Covered Risk 7, 8.e., 25, 26, 27 or 28.
5. Failure to pay value for Your Title.
6. Lack of a right:
a. to any land outside the area specifically described and referred to in paragraph 3 of Schedule A; and
b. in streets, alleys, or waterways that touch the Land.

This Exclusion does not limit the coverage described in Covered Risk 11 or 21.
7. The transfer of the Title to You is invalid as a preferential transfer or as a fraudulent transfer or conveyance under federal bankruptcy, state insolvency, or similar creditors' rights laws.
8. Contamination, explosion, fire, flooding, vibration, fracturing, earthquake, or subsidence.
9. Negligence by a person or an Entity exercising a right to extract or develop minerals, water, or any other substances.

## LI MITATI ONS ON COVERED RISKS

Your insurance for the following Covered Risks is limited on the Owner's Coverage Statement as follows:

- For Covered Risk 16, 18, 19, and 21 Your Deductible Amount and Our Maximum Dollar Limit of Liability shown in Schedule A.

The deductible amounts and maximum dollar limits shown on Schedule A are as follows:
Our Maximum Dollar
Your Deductible Amount
Limit of Liability
Covered Risk 16:
1.00\%

Covered Risk 18:
1.00\%
\% of Policy Amount Shown in Schedule A or $\$ 2,500.00$ (whichever is less)
\$ 10,000.00
\% of Policy Amount Shown in Schedule A or $\$ 5,000.00$ (whichever is less)
\$ 25,000.00
1.00\% of Policy Amount Shown in Schedule A or $\$ 5,000.00$ (whichever is less)
\$ 25,000.00
Covered Risk 19:
$1.00 \%$ of Policy Amount Shown in Schedule A or
$\$ 2,500.00$ (whichever is less) \$ 5,000.00

## 2006 ALTA LOAN POLI CY (06-17-06) EXCLUSI ONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy, and the Company will not pay loss or damage, costs, attorneys' fees, or expenses that arise by reason of:

1. (a) Any law, ordinance, permit, or governmental regulation (including those relating to building and zoning) restricting, regulating, prohibiting, or relating to
(i) the occupancy, use, or enjoyment of the Land;
(ii) the character, dimensions, or location of any improvement erected on the Land;
(iii) the subdivision of land; or
(iv) environmental protection;
or the effect of any violation of these laws, ordinances, or governmental regulations. This Exclusion 1(a) does not modify or limit the coverage provided under Covered Risk 5.
(b) Any governmental police power. This Exclusion 1(b) does not modify or limit the coverage provided under Covered Risk 6.
2. Rights of eminent domain. This Exclusion does not modify or limit the coverage provided under Covered Risk 7 or 8.
3. Defects, liens, encumbrances, adverse claims, or other matters
(a) created, suffered, assumed, or agreed to by the Insured Claimant;
(b) not Known to the Company, not recorded in the Public Records at Date of Policy, but Known to the Insured Claimant and not disclosed in writing to the Company by the Insured Claimant prior to the date the Insured Claimant became an Insured under this policy;
(c) resulting in no loss or damage to the Insured Claimant;
(d) attaching or created subsequent to Date of Policy (however, this does not modify or limit the coverage provided under Covered Risk 11, 13 or 14); or
(e) resulting in loss or damage that would not have been sustained if the Insured Claimant had paid value for the Insured Mortgage.
4. Unenforceability of the lien of the Insured Mortgage because of the inability or failure of an Insured to comply with applicable doing-business laws of the state where the Land is situated.
5. Invalidity or unenforceability in whole or in part of the lien of the Insured Mortgage that arises out of the transaction evidenced by the Insured Mortgage and is based upon usury or any consumer credit protection or truth-in-lending law.
6. Any claim, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors' rights laws, that the transaction creating the lien of the Insured Mortgage, is
(a) a fraudulent conveyance or fraudulent transfer, or
(b) a preferential transfer for any reason not stated in Covered Risk 13(b) of this policy.
7. Any lien on the Title for real estate taxes or assessments imposed by governmental authority and created or attaching between Date of Policy and the date of recording of the Insured Mortgage in the Public Records. This Exclusion does not modify or limit the coverage provided under Covered Risk 11(b).
The above policy form may be issued to afford either Standard Coverage or Extended Coverage. In addition to the above Exclusions from Coverage, the Exceptions from Coverage in a Standard Coverage policy will also include the following Exceptions from Coverage:

## EXCEPTI ONS FROM COVERAGE

(Except as provided in Schedule B - Part II, ( $\mathrm{t}(\mathrm{or} \mathrm{T}$ ) his policy does not insure against loss or damage, and the Company will not pay costs, attorneys' fees or expenses, that arise by reason of:

## (PART I

(The above policy form may be issued to afford either Standard Coverage or Extended Coverage. In addition to the above Exclusions from Coverage, the Exceptions from Coverage in a Standard Coverage policy will also include the following Exceptions from Coverage:

1. (a) Taxes or assessments that are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the Public Records; (b) proceedings by a public agency that may result in taxes or assessments, or notices of such proceedings, whether or not shown by the records of such agency or by the Public Records.
2. Any facts, rights, interests, or claims that are not shown by the Public Records but that could be ascertained by an inspection of the Land or that may be asserted by persons in possession of the Land.
3. Easements, liens or encumbrances, or claims thereof, not shown by the Public Records.
4. Any encroachment, encumbrance, violation, variation, or adverse circumstance affecting the Title that would be disclosed by an accurate and complete land survey of the Land and not shown by the Public Records.
5. (a) Unpatented mining claims; (b) reservations or exceptions in patents or in Acts authorizing the issuance thereof; (c) water rights, claims or title to water, whether or not the matters excepted under (a), (b), or (c) are shown by the Public Records.
6. Any lien or right to a lien for services, labor or material not shown by the Public Records.

## PART II

In addition to the matters set forth in Part I of this Schedule, the Title is subject to the following matters, and the Company insures against loss or damage sustained in the event that they are not subordinate to the lien of the Insured Mortgage: )

## 2006 ALTA OWNER'S POLI CY (06-17-06) EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy, and the Company will not pay loss or damage, costs, attorneys' fees, or expenses that arise by reason of:

1. (a) Any law, ordinance, permit, or governmental regulation (including those relating to building and zoning) restricting, regulating, prohibiting, or relating to
(i) the occupancy, use, or enjoyment of the Land;
(ii) the character, dimensions, or location of any improvement erected on the Land;
(iii) the subdivision of land; or
(iv) environmental protection;
or the effect of any violation of these laws, ordinances, or governmental regulations. This Exclusion 1(a) does not modify or limit the coverage provided under Covered Risk 5.
(b) Any governmental police power. This Exclusion 1(b) does not modify or limit the coverage provided under Covered Risk 6.
2. Rights of eminent domain. This Exclusion does not modify or limit the coverage provided under Covered Risk 7 or 8.
3. Defects, liens, encumbrances, adverse claims, or other matters
(a) created, suffered, assumed, or agreed to by the Insured Claimant;
(b) not Known to the Company, not recorded in the Public Records at Date of Policy, but Known to the Insured Claimant and not disclosed in writing to the Company by the Insured Claimant prior to the date the Insured Claimant became an Insured under this policy;
(c) resulting in no loss or damage to the Insured Claimant;
(d) attaching or created subsequent to Date of Policy (however, this does not modify or limit the coverage provided under Covered Risk 9 and 10); or
(e) resulting in loss or damage that would not have been sustained if the Insured Claimant had paid value for the Title.
4. Any claim, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors' rights laws, that the transaction vesting the Title as shown in Schedule A, is
(a) a fraudulent conveyance or fraudulent transfer; or
(b) a preferential transfer for any reason not stated in Covered Risk 9 of this policy.
5. Any lien on the Title for real estate taxes or assessments imposed by governmental authority and created or attaching between Date of Policy and the date of recording of the deed or other instrument of transfer in the Public Records that vests Title as shown in Schedule A.
The above policy form may be issued to afford either Standard Coverage or Extended Coverage. In addition to the above Exclusions from Coverage, the Exceptions from Coverage in a Standard Coverage policy will also include the following Exceptions from Coverage:

## EXCEPTI ONS FROM COVERAGE

This policy does not insure against loss or damage, and the Company will not pay costs, attorneys' fees or expenses, that arise by reason of:
(The above policy form may be issued to afford either Standard Coverage or Extended Coverage. In addition to the above Exclusions from Coverage, the Exceptions from Coverage in a Standard Coverage policy will also include the following Exceptions from Coverage:

1. (a) Taxes or assessments that are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the Public Records; (b) proceedings by a public agency that may result in taxes or assessments, or notices of such proceedings, whether or not shown by the records of such agency or by the Public Records.
2. Any facts, rights, interests, or claims that are not shown in the Public Records but that could be ascertained by an inspection of the Land or that may be asserted by persons in possession of the Land.
3. Easements, liens or encumbrances, or claims thereof, not shown by the Public Records.
4. Any encroachment, encumbrance, violation, variation, or adverse circumstance affecting the Title that would be disclosed by an accurate and complete land survey of the Land and that are not shown by the Public Records.
5. (a) Unpatented mining claims; (b) reservations or exceptions in patents or in Acts authorizing the issuance thereof; (c) water rights, claims or title to water, whether or not the matters excepted under (a), (b), or (c) are shown by the Public Records.
6. Any lien or right to a lien for services, labor or material not shown by the Public Records.
7. (Variable exceptions such as taxes, easements, CC\&R's, etc. shown here.)

## ALTA EXPANDED COVERAGE RESI DENTI AL LOAN POLI CY (12-02-13) EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy and the Company will not pay loss or damage, costs, attorneys' fees or expenses which arise by reason of:

1. (a) Any law, ordinance, permit, or governmental regulation (including those relating to building and zoning) restricting, regulating, prohibiting, or relating to
(i) the occupancy, use, or enjoyment of the Land;
(ii) the character, dimensions, or location of any improvement erected on the Land;
(iii) the subdivision of land; or
(iv) environmental protection;
or the effect of any violation of these laws, ordinances, or governmental regulations. This Exclusion 1(a) does not modify or limit the coverage provided under Covered Risk 5, 6, 13(c), 13(d), 14 or 16.
(b) Any governmental police power. This Exclusion 1(b) does not modify or limit the coverage provided under Covered Risk 5, 6, 13(c), 13(d), 14 or 16 .
2. Rights of eminent domain. This Exclusion does not modify or limit the coverage provided under Covered Risk 7 or 8.
3. Defects, liens, encumbrances, adverse claims, or other matters
(a) created, suffered, assumed, or agreed to by the Insured Claimant;
(b) not Known to the Company, not recorded in the Public Records at Date of Policy, but Known to the Insured Claimant and not disclosed in writing to the Company by the Insured Claimant prior to the date the Insured Claimant became an Insured under this policy;
(c) resulting in no loss or damage to the Insured Claimant;
(d) attaching or created subsequent to Date of Policy (however, this does not modify or limit the coverage provided under Covered Risk 11, 16, $17,18,19,20,21,22,23,24,27$ or 28 ); or
(e) resulting in loss or damage that would not have been sustained if the Insured Claimant had paid value for the Insured Mortgage.
4. Unenforceability of the lien of the Insured Mortgage because of the inability or failure of an Insured to comply with applicable doing-business laws of the state where the Land is situated.
5. Invalidity or unenforceability in whole or in part of the lien of the Insured Mortgage that arises out of the transaction evidenced by the Insured Mortgage and is based upon usury, or any consumer credit protection or truth-in-lending law. This Exclusion does not modify or limit the coverage provided in Covered Risk 26.
6. Any claim of invalidity, unenforceability or lack of priority of the lien of the Insured Mortgage as to Advances or modifications made after the Insured has Knowledge that the vestee shown in Schedule A is no longer the owner of the estate or interest covered by this policy. This Exclusion does not modify or limit the coverage provided in Covered Risk 11.
7. Any lien on the Title for real estate taxes or assessments imposed by governmental authority and created or attaching subsequent to Date of Policy. This Exclusion does not modify or limit the coverage provided in Covered Risk 11(b) or 25.
8. The failure of the residential structure, or any portion of it, to have been constructed before, on or after Date of Policy in accordance with applicable building codes. This Exclusion does not modify or limit the coverage provided in Covered Risk 5 or 6.
9. Any claim, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors' rights laws, that the transaction creating the lien of the Insured Mortgage, is
(a) a fraudulent conveyance or fraudulent transfer, or
(b) a preferential transfer for any reason not stated in Covered Risk 27(b) of this policy.
10. Contamination, explosion, fire, flooding, vibration, fracturing, earthquake, or subsidence.
11. Negligence by a person or an Entity exercising a right to extract or develop minerals, water, or any other substances.






 and








APN: $175-080-12,175$

## SITE RESTRICTIONS:

TTEMS CORRESPONDING TO SCHEDULE "B",



(2)- Acture ion









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FUTURE SURVEY NOTE

$\frac{\text { FLOOD NOTE: }}{2010}$

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& \text { SURVEYOR'S CERTIICATE: }
\end{aligned}
$$



5800 Northacte mal
SAN RAPAEL, CALIFORNA


Appendix I

Agency Information


ENVIROSTOR


(5) Terra Linda High School



$\%_{\text {Cinth }}$ Way $\qquad$
 tanuel T Freitas Pkwy
© Safewa

Northgate ${ }^{(1)}$
© Macy's

(1) Century Northgate

Mt. Olivet San Rafael ${ }^{[ }$

Drake Terrace

Embassy Suites by Hilton San Rafael Marin County

| GEOTRACKER SITES |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SITE NAME | GLOBAL ID | FAC ID | SITE_TYPE | STATUS | ADDRESS | CITY | LATITUDE | LONGITUDE |
| ART'S AUTO CARE | T0604100257 |  | LUST CLEANUP SITE | COMPLETED - CASE CLOSED | 1005 NORTHGATE DR | SAN RAFAEL | 38.00857339 | -122.5451303 |
| CHEVRON | T0604100157 |  | LUST CLEANUP SITE | COMPLETED - CASE CLOSED | 949 DEL PRESIDIO BLVD | SAN RAFAEL | 38.00721746 | -122.544518 |
| CHEVRON STATION \#93553 | 300036 |  |  |  | 949 DEL PRESIDIO BLVD. | SAN RAFAEL | 38.0086119 | -122.5432917 |
| CONOCOPHILLIPS | T0604141609 |  | LUST CLEANUP SITE | COMPLETED - CASE CLOSED | 921 DEL PRESIDIO | SAN RAFAEL | 38.0068531 | -122.5447708 |
| EXXON STATION \#7-7067 | 300083 |  |  |  | 930 DEL PRESIDIO BLVD. | SAN RAFAEL | 38.0079359 | -122.5427187 |
| FORMER EXXON 7-7067 | T0604100047 |  | LUST CLEANUP SITE | COMPLETED - CASE CLOSED | 930 DEL PRESIDIO BLVD | SAN RAFAEL | 38.00659631 | -122.5444416 |
| GATEWAY GAS | 300370 |  |  |  | 1005 NORTHGATE DRIVE | SAN RAFAEL | 38.00987 | -122.5439332 |
| GUIDE DOGS FOR THE BLIND | 300184 |  |  |  | 350 LOS RANCHITOS ROAD | SAN RAFAEL | 38.001821 | -122.53912 |
| KAISER MEDICAL CENTER | T0604100190 |  | LUST CLEANUP SITE | COMPLETED - CASE CLOSED | 99 MONTECILLO RD | SAN RAFAEL | 38.005851 | -122.554915 |
| KAISER PERMANENTE MEDICAL CENTER | 300181 |  |  |  | 99 MONTECILLO ROAD | SAN RAFAEL | 38.005314 | -122.553939 |
| MARIN COUNTY - GARAGE | 600275 |  |  |  | 3501 CIVIC CENTER DR. (GARAGE \& ADMIN. BLDG.) | SAN RAFAEL | 38.00066 | -122.53517 |
| MARIN COUNTY - SANTA VENETIA | 600274 |  |  |  | NEXT TO 79 VENDOLA AVE. | SAN RAFAEL | 38.01034 | -122.54551 |
| NORTHGATE SHELL | 300024 |  |  |  | 950 DEL PRESIDIO | SAN RAFAEL | 38.0081544 | -122.542451 |
| PACIFIC BELL | T0604100162 |  | LUST CLEANUP SITE | COMPLETED - CASE CLOSED | 7 PROFESSIONAL PKWY | SAN RAFAEL | 38.010062 | -122.54085 |
| PACIFIC BELL W3053 | 300202 |  |  |  | 7 PROFESSIONAL CENTER PARKWAY | SAN RAFAEL | 38.011412 | -122.539515 |
| SHELL | T0604100126 |  | LUST CLEANUP SITE | COMPLETED - CASE CLOSED | 950 DEL PRESIDIO BLVD | SAN RAFAEL | 38.00695877 | -122.5439501 |
| TERRA LINDA CAR WASH | 300371 |  |  |  | 921 DEL PRESIDIO BLVD. | SAN RAFAEL | 38.0083228 | -122.5435931 |
| UNOCAL | T0604100148 |  | LUST CLEANUP SITE | COMPLETED - CASE CLOSED | 929 DEL PRESIDIO BLVD | SAN RAFAEL | 38.0072274 | -122.5440519 |
| VILLA MARIN HOMEOWNERS ASSOCIATION | 300478 |  |  |  | 100 THORNDALE DRIVE | SAN RAFAEL | 38.0053351 | -122.5480784 |
|  | 300486 |  |  |  | 320 NOVA ALBION WAY | SAN RAFAEL | 37.9998272 | -122.551785 |



Fire Chief
Robert E. MarcuccI

September 6, 2001
Mr. Dennis Puccetti
Sears San Rafael unit \#1528
9000 Northgate Mall
San Rafael, CA 94903
Re: Modification of Building Exiting Arrangement, 9000 Northgate Mall (San Rafael Building Permit B0108-057)

Mr. Puccetti:
Thank you for your submittal regarding plans to delete the bank of glass panel doors from the north-east corner of the building (between column lines $J$ \& $K$, along column line 1). These doors have historically served as a customer entrance and exit. Your proposal also includes the immobilization of two door leafs at the west entrance (opposite the garden/service center).

I have completed an analysis of the exiting requirements based on the second floor occupant loading and current code requirements. Your current plans to delete the bank of doors and leave in place the single leaf metal door at that location complies with current code requirements. Assuming the remaining door has a 32" clear width when open, the allowable occupant load for the second story would be 640 persons. This occupant load figure assumes that three other similar doors are provided around the floor plan for exiting from the second floor. For reference purposes, an occupant load of 640 would allow the following configuration: $33,000 \mathrm{sq}$. ft. of retail sales floor area, $14,800 \mathrm{sq}$. ft. of stock room, 3000 sq. ft. of office area and 2400 sq . ft. of mechanical service area.

As we discussed on 9/4, the portion the proposal calling for time delay egress door hardware would only be acceptable if a smoke detection system were installed throughout the building. Based on our conversation its my understanding that this portion of the original proposal has been dropped so this is not an issue requiring resolution. You may at your option employ alarmed exit hardware without any restrictions.

One item not specifically addressed in the proposal is exit designation. As we discussed during our first meeting on this issue, an illuminated exit sign mounted to be visible from the sales floor should be added to direct persons to the sole remaining exit door at the effected corner. Also, steps must be taken at the west entrance to avoid confusing the immobilized door leafs with the active leafs. Appropriate steps include the removal of any door pull or similar hardware from the doors and the addition of markings or other architectural features (such as visibility dots, wainscoting, decorative planters, etc.) to clearly communicate to the public that the door leafs have become side lights.

While I realize that the San Rafael Building Department has already issued you a permit to proceed with this project I would like to thank you for taking the extra step of soliciting our input on this issue. I hope you will find that approaching this type of project in such a proactive manner will result in a smoother project timeline with less chance for unexpected delays or revisions. If you have any questions regarding any of the requirements outlined above please contact this office at (415) 485-3308.

Sincerely,


STEVEN RIGGS
Fire Inspector

Cc: file


## RECEIPT 309581

(This is not a license or permit)

City of San Rafael
1400 FIFTH AVENUE SAN RAFAEL, CA 94901


1

## ACCOUNT DIETATEUTITON

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001-D A-1650-000-2204-00000 & 31.25 \\
001-D A-1650-000-7710-00000 & 0.50
\end{array}
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RECEIpT $\quad 309$ OBI
CHECK \# CASH

## SEARS ROEBUCK

POST IN A CONSPICUOUS PLACE ON THE JOB City of San Rafael INSPECTION RECORD

Building Division, Rm, 300, 1400 (Fth Avenue 415 485-3365
Permit Na, BolO- Date (8-17-10)


Contractor
Owner


NOTICE: Separate Permits are Required for Plumbing; Heating, Electrical, and Work Within the Public Right- of Way.


Foundation Inspections
To Be Made Before Concrete Is Poured
Foundation $\qquad$ Grade Beams $\qquad$
Piers. $\qquad$ Undersalab $\qquad$
Slabs Tempiplac $\qquad$
Masonry, Concrete \& Reinforcing Inspection
To Be made Before Shouting, Ganiting or Placing of Concrete
Reinforcing $\qquad$ Walls $\qquad$
Cells. $\qquad$ Grout Lift es $\qquad$
Sub-Fioarlinspections
Ta Ba Made Biafra Sub Haar is Laid
Joists \& Bills $\qquad$ Rough Plumbing. $\qquad$
Ducts $\qquad$
Rough Inspections :
To Ba Made Bafara Interior Wall Covering is Appliad E Ext Sheer

Rough Wining $\qquad$ Rough Mechanical $\qquad$
Culinmey $\qquad$
Framing
Aloof Nailing $\qquad$
Sheer Walls $\qquad$
Wall Board and Plaster Inspections
To Be Made Before Wall Boerdis Tapad.ar After Lath or Wire is Applíad
Sheetrock $\qquad$ Misc. $\qquad$
Lath $\qquad$
Final Inspections
Do Not Occupy Building: Until These Are Signed
Gas Test $\qquad$
Heating $\qquad$
Plumbing $\qquad$
Electrical $\qquad$
Building $\qquad$
Fira:Dept. $\square$

SAN RAFAEL COMMUNITY DEVELOPMENT DEPT.
BUILDING AND SAFETY DIVISION
1400 FIFTH AVENUE - PO BOX 151560 -SAN RAFAEL - CA 94915-1560 PHONE 415 485-3365

PERMIT NO SUUQQ:OS7 DATE RECEIVED

## APPLICATION FOR BUILDING PERMIT

## APPLICANT INFORMATION (Please Type or Print)



## OFFICE USE ONLY

NOTES
"Extra Inspections" are inspections necessitated by failure to make noted correction, work not ready, inspection of work done without permit prior to issuance of permit or inspector unable to gain entry to job

Twenty-four (24) hours notice is required for called inspections
This permit becomes null and void il the work is not commenced within one-hundred-eighty (180) days of is abandoned for a period of one-hundred-eighty (180) days. Application for refund must be submitted within one-hundred-eighty (180) days from date of issuance

CONDITIONS:
The following conditions together with the submitted plans and/or specifications are made a pant of this permit:



CONSTRUCTION


FLOOR AREA (Main Building)
FLOOR AREA (Garage) ACCESS BLDG. ........... VALUATION \$

BUILDING PERMIT FEE
31.25

PREPAID PLAN
REVIEW FEE
PLAN CHECK FEE. (Balance)
PLAN RETENTION FEE
S. M. I. P.

BEDROOM TAX
DEVELOPMENT TAX
OTHER

B

 Sews mon Howe / Kevinthomos
Demy Pacesti/i

At the time of the inspection those items marked in columns 1, 2 or 3 were found to be in violation and shall be corrected immediately. Re-inspections occur in approximate two week intervals. Items marked under NA or OK were either not applicable or were in compliance at the time of the inspection.
B-2: General Businesses - office, wholesale and retail stores, factories, workshops using materials not highly flammable or combustible, drinking/dining establishments, school rooms for those beyond the. 12 th grade, for less than 50 people, woodworking and cabinet shops which are owner operated or where not more than one employee is operating one piece of equipment or appliance.

- -BUREAU REFERRAL VOLATIONS-fP13
*-standard available


## general requirements and special hazards -

* 1. Install approved address identification.

4. 2. Individual work station trash cans within smoking areas shall be metal or approved equal with lid.

A* 3. Trash cans used for collection shall be metal or approved equal with a lid
4 5. Remove accumulation of waste material on exterior of building.
6. Maintain 30 "clearance of combustibles to heat producing appliances.

- 11. Maintain all, area or occupancy' separation walls and draft stops.

12. Maintain in operable condition and remove all obstructions to fire/smoke doors and fife dampers. --.

* 14. Keys needed for access to all portions of buildinglare current and in Knox-Box.
exiting requirements, based on an occupant load factor of one person for every:

- 17. Two exits required if occupant load exceeds 50 (except offices).
- 18. Two exits required if occupant load exceeds 30 (offices).
- 21. Two exits required from second floor if occupant load exceeds 10
- 22. Two exits required from all basements and above the second floor
- 23. Two exits required from Mezzanines larger than 2000 square feet or 60 feet in any direction.
- 24. When two exits are required they must be separated by $1 / 2$ of the diagonal distance of the room.
- 25. Three exits required if occupant load exceeds 500 , four if over 1000.
- 27. Maximum distance to an exit is $150^{\prime}$. (unsprinklered buildings) or $200^{\prime}$ (sprinklered buildings).
- 28. Dead end corridors may not exceed $20^{\prime}$.
- 30. If occupant load is over 50 , doors must swing out; if over 100 they must only swing out.
- 31. Exit doors shall not have dead bolts or other similar devices.

A 34. Exit doors and exit paths shall not be obstructed.
A 35. No storage beneath enclosed stairs unless protected by 1 hr . construction:

- Corridors serving 30 or more shall be 1 hr . rated with 20 minute self closing doors
- 38. When 2 exits are required, all exits shall have exit signs. The main exit is' exempted if it is obvious.

4 40. Exit signs shall be internally or externally illuminated AI ALL TIMES
41. All exit paths shall be lighted at all time that the building is occupied. If separate circuits are required for the exit signs the exit lighting must also be on separate circuits.
4 95. Maximum occupant load sign is required if less than 50 people. (Restaurants, Lounges)

- 44. Interior stairways to be rated 1 hr . for 3 or 4 stories, 2 hr . for higher buildings

FIFE PROTECTION EQUIPMENT
A. 45. One 2A10BC fire extinguisher shall be provided for every 6,000 sq ft with 75 maximum travel distance.

A 49. One additional 40BC extinguisher shall be provided in all kitchens.
A 50. Extinguishers shall be easily accessible, wall mounted at a height not less than $4^{\prime \prime}$ or more than $5^{\prime}$ from for
A 51. Extinguishers shall be serviced annually, after use, and when gauge indicates recharge.
55. Fire protection or detection systems shall be extended, altered' or repaired as necessary to maintain protection

A 56. All sprinkler valves shall be locked in open position accessible and unobstructed.

- 57. Fire Department connection caps in place and work freely,

A 58. Exterior exposed portions of systems that are not brass or galvanized shall be painted with fist preventative paint.

- 59. Storage shall be maintained at least $18^{\prime \prime}$ below sprinkler heads.
-60. Storage shall be maintained at least 24 " below ceiling in unsprinklereed buildings
** 61. Maintain systems as follows: System Type
A. Standpipes
B. Sprinkler

C. Pre-enaineered/Fixed

Semilajinually \& after activation. S Somi-annually
62. Ali commercial cooking shall have a drywet chemical system protecting all cooking surfaces:

- 63. Hood and duct ventilation systems shall be maintained froe of grease.


## ELECTRICAL REQUIREMENTS

$\stackrel{\Delta}{4}$
$\qquad$
67. Cords shall not be affixed to or extended through walls, ceilings? floorslor under doors, nor subject to physical damage.
68. Maintain $30^{\prime \prime}$ clearance fronting and around électrical control panels.

4 69. Electrical main and sub-panels shall be labeled as to area served and not taped "on" position



## PERMITS ARE REQUIRED OR COMPLIANCE WITH POSTED PERMIT.

-* 87. To store in excess of 5 gallons of flammable liquids inside or 10 gallons outside.

- 88. To store in excess of 25 gallons of combustible liquids inside or 60 gallons outside.
-* 89. For welding or cutting torch operations.
- 90 . For above ground flammable liquids storage tanks.
** 91. Lumber yards in excess of 100,000 board feet of lumber.
* 92. To operate refrigeration equipment.
-.* 93. To have an LPG tank in excess of 120 water gallons.
* 94. To store hazardous materials in excess of 100 lbs . solid, 55 gallons liquid or 200 cu . ft . gas.



# To: Building Commission San Rafael, CA. stisuen Riggs <br> SAN RAFAEL FIRE DEPT. 

From: Sears San Rafael unit \#1528<br>C/O Dennis Puccetti 9000 Northgate Mall<br>San Rafael, CA. 94903

Re: Building Remodel Proposal

To Whom It May Concern:
In the effort for us here at Sears in San Rafael, to control the ongoing problem of inventory loss and merchandise selection availability, we are planning to do some minor building remodeling.
This letter is our stores proposal for the following planned building remodel for Sears at Northgate Mall:
Please find enclosed with this letter a map that shows the areas of the building that we plan to remodel.

## Refering to the map:

## Green Area "A"

This area we plan to lock the existing customer entrance doors and construct a wall that will completely cover and block the fore mentioned entrance. From the map if you look directly to the left you will see a door that will act as an emergency exit door. On this door we will install a time delayed crash bar that will, in an emergency, allow customers and associates access to the exterior of the building.

## Green Area "B"

This area of the store our plan is to completely lock and secure two (2) of the existing customer entrance doors. Then with the other two (2) remaining doors we plan to install time delayed crash bars. Our intent with this plan is to completely restrict access through these doors from both customers and associates.

The forgoing is our proposed building remodel plan, and we at Sears are seeking your review and approval so that we may expedite these plans as soon as possible.

We would like to thank you in advance for your careful consideration in this very important matter

Sincerely,

Dennis Puccetti

Director of Operations
Sears San Rafael

Address $\qquad$
$\qquad$ Contact
Issued By/Date 1st Insp. $\frac{C B / O / / C / 137}{\text { entire }}$ and insp. $\qquad$ Ord. Insp. $\qquad$ Refer to FPB $\qquad$
At the time of the inspection those items marked in columns 1,2 or 3 were found to be in violation and shall be corrected immediately. Re-inspections occur in approximate two week intervals. Items marked under NA or OK were either not applicable or were in compliance at the time of the inspection.
B-2: General Businesses - office, wholesale and retail stores, factories, workshops using materials not highly flammable or combustible, drinking/dining establishments, school rooms for those beyond the 12 th grade, for less than 50 people, woodworking and cabinet shops which are owner operated or where not more than one employee is operating one piece of equipment or appliance.

- -BUREAU REFERRAL MOLATIONS-FP13
*-Standard available


## general requirements and special hazards

* 1. Install approved address identification

4* 2. Individual work station trash cans within smoking areas shall be metal or approved equal with lid.

* 3. Trash cans used for collection shall be metal or approved equal with a lid.

5. Remove accumulation of waste material on exterior of building.

- 6. Maintain 30 " clearance of combustibles to heat producing appliances

11. Maintain all area or occupancy separation walls and draft stops
12. Maintain in operable condition and remove all obstructions to fire/smoke doors and fire dampers.
** 14. Keys needed for access total portions of building are current and in Knox-Box
exiting requirements, based on an occupant load factor of one person for every:


13. Two exits required if occupant load exceeds 50 (except offices)

- 18. Two exits required if occupant load exceeds 30 (offices).
-21. Two exits required from second floor if occupant load exceeds 10
- 22. Two exits required from all basements and above the second floor.

- 23. Two exits required from Mezzanines larger than 2000 square feet or 60 feet in any direction.
- 24. When two exits are required they must be separated by $1 / 2$ of the diagonal distance of the room.
- 25. Three exits required if occupant load exceeds 500 , four if over 1000
- 27. Maximum distance to an exit is $150^{\prime}$ (unsprinklered buildings) or $200^{\prime}$ (sprinklered,bưildings)
- 28. Dead end corridors may not exceed. $20^{\prime}$
\& 1
- 30. If occupant load is over 50 ; doors must swing out; if over 100 they must -only swing out.
- 31. Exit doors shall not have dead bolts or other similar devices.
- 34. Exit doors and exit paths shall not be obstructed.
- 35. No storage beneath enclosed stairs unless protected by 1 hr . construction
- 36. Corridors serving 30 or more shall be 1 hr . rated with 20 minute 'self closing, doors

4 38. When 2 exits are required, all exits shall have exit signs. The main exit is exempted if it is obvious.
a 40. Exit signs shall be internally or externally illuminated AI ALL TIMES
41. All exit paths shall be lighted at all time that the building is occupied. If separate circuits are required for the exit signs the exit lighting must also be on separate circuits.

- 95: Maximum occupant load sign is required if less than 50 people. (Restaurants; Lounges)



## FIRE PROTECTION EQUIPMENT

4 45. One 2A10BC fire extinguisher shall be provided for every. $6,000 \mathrm{sq}$. ft , with 75 maximum travel distance

- 49. One additional 40BC extinguisher shall be provided in all kitchens
- 50. Extinguishers shall be easily accessible wall mounted at a height not less' than 4 " or more than 5 from floor.
- 51. Extinguishers shall be serviced annually after use; and when gauge indicates recharge:
- 55. Fire protection or detection systems shall be extended, altered or repaired as necessary to maintain protection.
- 56. All sprinkler valves shall be locked in open position, accessible and unobstructed
- 57. Fire Department connection caps in place and work freely.

4. Exterior exposed portions of systems that are not brass or galvanized shall be painted with rust preventative paint

4 59. Storage shall bee maintained at least $18^{\prime \prime}$ bélów sprinkler heads.

- 60. Storage shall be maintained at least $24^{\prime \prime}$ below ceiling in unspprinklered'buildings.



62. All commercial cooking shall have a dry wet chemical system protecting all cooking surfaces.

A 63. Hood and duct ventilation systems shall be maintained free of grease.

## ELECTRICAL REQUIREMENTS



- 66. Discontinue use of extension cords and cube adapters in lieu of permanent wiring, $\}$, 3

4 67. Cords shall not be affixed to or extended through walls, ceilings', floórsior-under'doors, nor subject to physical damage.
4 68. Maintain 30 " clearance fronting and around electrical control panels.


## FLAMMABLE LIQUIDS

74. Disconinuios
75. No storage of class 1 A liquids in basements.


## permits are required of compliance with posted permit.

- 87. To store in excess of 5 gallons of flammable liquds inside or 10 gallons outside
-* 88. To store in excess of 25 gallons of combustible liquids inside or 60 gallons outside.
- 89. For welding or cutting torch operations.
-     * 90. For above ground flammable liquids storage tanks.
- 91. Lumber yards in excess of 100,000 board feet of lumber.
- 92. To operate refrigeration equipment.
- 93. To have an LPG tank in excess of 120 water gallons.
- 94. To store hazardous materials in excess of 100 lbs. solid, 55 gallons liquid or 200 cu . ft . gas. it.


87 *
88 *
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94

Address of Project $\qquad$ GOO NORTH GATE DENE
Project/Business Name $\qquad$
Contractor/Owner's Name WILLIAM R. MEIXNER S SONS
Address 120 SOLANO ST,
City, State, Zip VENTルRA CA Phone No.


Mailing Address for Invoices (if different than above) $\qquad$ State Contractor's License \# $\qquad$ Expiration $\qquad$
San Rafael Business License \# 292408
Expiration DEE, 1997

A deposit of $\$ 200$ will be required when submitting this permit application. A time keeping form will be kept to track time spent on your project. You will be charged for the actual time spent to the nearest $1 / 4$ hour, with a minimum two-hour charge. The department will also charge direct and indirect costs for actual expenses incurred for consultant and/or contractual services plus overhead which may be necessary to review your project. The fee will be collected at the completion of your project, and an invoice will be mailed to you. The fees are due and payable upon the receipt of the invoice. Your project permit will not receive final Fire Department approval until all fees are paid. In addition to not issuing final approval, the Fire Department will pursue all other legal remedies for unpaid accounts. On projects that accumulate more than 3 hours (or $\$ 300$ ) in services, you will be invoiced during each month that the balance exceeds 3 hours (or $\$ 300$ ).

I have read the above statement regarding fees for this project, and I understand how the fees will be calculated, agree to pay such fees and understand that they are due prior to final acceptance of my project. Further, under penalty of perjury, I declare that I am duly authorized to encumber expenses on behalf of the firm listed above.


## Uniform Fire Code Permits*

Bonfires or rubbish fires
Bowling pin or alley refinishing
Burning in public place

- Candles and open flames in assembly areas
- Dust-producing operations
- Fruit ripening
- High-piled combustible stock

Junk yards
-

- Lumber yards
- Mall, covered

Sprinkler (Plan submittal required)
__ Residential Overhead - \#/heads $\qquad$
Other Systems - (Plan submittal required)
Residential Underground
Residential BothCommercial Overhead - \#/heads 24
Commercial Underground
Commercial Both

Open burning

- Open-flame devices in marinas
___ Ovens, industrial baking or drying
- Parade floats
- Places of assembly
- Refrigeration equipment
- Tents and Air-Supported Structures
__Other, explain $\qquad$


## Other - Environmental

__ Monitoring Well, Installation

- Monitoring Well, Destruction

Phase I or II Site Assessment/Investigation
__ Remedial Action Plan
-_Soil Borings/Groundwater Sampling
*Use other application for hazardous materials or tank permits.

# CITY OF SAN RAFAEL̇ FIRE DEPARTMENT 

1039 C Street, San Rafael, CA 94901
Phone: (415) 485-3308 Fax: (415) 453-1627
RECEIVED
FEB 031997
FIRE DEPT.
HAZARDOUS WASTE AND HAZARDOUS MATERIALS MANAGEMENT REGULATORY PROGRAM

## APPLICATION FOR A CONSOLIDATED PERMIT

Sears Portrait Studio

| Name of Business or Facility <br> Consumer Programs Incorporated <br> Business Owner Name <br> 1706 Washington Ave.,St. Louis, MO 63103 |
| :--- |
| Mailing Address Attn: Keith McCoy |

9000 Northgate Mall
94903

| Address |  |
| :--- | :--- |
| Title |  |
| $800 / 669-9699$ | $\frac{314 / 231-0761}{\text { Fax }}$ |

## Applicant is engaged in the following activities: (Check all that apply)

$\square \quad$ Storage of hazardous materials in excess of 55 gallons, or 100 pounds or 200 cu . ft. of gas
$\square \quad$ Storage of acutely hazardous materials or extremely hazardous substances at or above the Threshold Planning Quantities (see list - Appendix A)
$\square \quad$ Generation of hazardous waste.

- Treatment of hazardous waste generated on site.
$\square \quad$ Storage of petroleum products in above ground tanks. $\square \quad$ Above ground tank installation \# of tanks $\qquad$ , tank capacity $\qquad$
Above ground tank removal \# of tanks $\qquad$ , tank capacity $\qquad$
$\square$ Storage of hazardous materials in underground tanks.

| $\square$ | Underground tank installation | \# of tanks |
| :--- | :--- | :--- |
| $\square$ | Underground tank removal | \# of tanks |

$\qquad$ , tank capacity $\qquad$
$\qquad$ $\square \quad$ Tank or line integrity test Tank or line repair/replacement
$\square \quad$ Uniform Fire Code Activities requiring permit (see list - Appendix B)
Check all that apply in Appendix B \& return with permit application to above address.
( x Our business does not engage in any of the above.

## Application is for: (Check one)

$\square \quad$ A new permit for a new business
$\square \quad$ A new permit for an existing business
$\square \quad$ Modification of an existing, valid permit.
$\square$ Renewal of an expiring permit, with changes.

## CERTIFICATION AND SIGNATURE

I have used all reasonable diligence in preparing this application. I have reviewed the application and, to the best of my kpen edge, the information contained herein is true and correct.
Applicants signature_Wury Title Director, Env. Affairs
Printed name Timothy J. Price

FOR FIRE DEPARTMENT USE ONLY

| Date Received: $\quad 2 / 3 / 97$ | Received By: Oblluetear |
| :---: | :---: |
| Date Reviewed: $2 / 3 / 97$ |  |
| Date Mailed: | Action Taken: |
|  | $\square$ Permit forms sent on |
| Reviewer's Notes: | $\square$ Deposit of \$__ received on |
|  | $\square$ Permit sent on |
|  | $\square$ Permit denied; notice sent on |
|  | $\square$ App. deficient; notice sent on |
|  | $\square$ Invoice for \$ _ sent on |

SAN RAFAEL FIRE DEPARTMENT
PERMIT
This Permit has been issued to the following, pursuant to the conditions stipulated herein and in conformance with Uniform Fire Code, state and local ordinances.

This Permit expires when change of ownership, business name, or conditions outlined herein occur. This Permit shall be posted, visible and made available upon request by the Fire Prevention Inspector. This Permit may be revoked at any time for due cause in violation of Uniform Fire Code.

```
PERMIT NO: FPB 96-2062
CATEGORY: Commercial
ADDRESS OF PROJECT: 9000 Northgate Mall
PROJECT/BUSINESS NAME: Jiffy Lube
OWNER/CONTRACTOR:
SNC Plumbing & Fire Protection
1730 44th Avenue
San Francisco, CA 94122
    BUSINESS PHONE: (415)-550-1129
```

FPB 96-2062
Commercial
9000 Northgate Mall
Jiffy Lube
SNC Plumbing \& Fire Protection
1730 44th Avenue
San Francisco, CA 94122
BUSINESS PHONE: (415)-550-1129
(Issued by)


SPRINKLER SYSTEMS

INSPECTION
PLANS REVIEWED UNDERGROUND INSPECTION UNDERGROUND HYDRO UNDERGROUND FLUSH OVERHEAD HYDRO OVERHEAD INSPECTION ALARM TEST FINAL
U.L. CERT. ISSUED:


| WCL | $06 / 17 / 96$ |
| :--- | :--- |
| N/A |  |
| N/A |  |
| N/A |  |
| N/A | $06 / 20 / 96$ |
| WCL |  |
| NRA | $06 / 20 / 96$ |

## SAN RAFAEL FIRE DEPARTMENT PERMIT APPLICATION ACKNOWLEDGMENT

Date: 06/17/96
Dear Applicant:
Your permit application has been received. The current status and conditions pertaining to this application are noted below.

PERMIT NUMBER: CATEGORY:

ADDRESS OF PROJECT: PROJECT/BUSINESS: OWNER/CONTRACTOR: MAILING ADDRESS: CITY/STATE/ZIP: PHONE:

FPB 96-2062
Commercial
9000 Northgate Mall
Jiffy Lube
SNC Plumbing \& Fire Protection 1730 44th Avenue
San Francisco, CA 94122
(415)-550-1129

06/17/96
The Inspections listed below are required to be conducted/witnessed by San Rafael Fire Prevention Bureau personnel prior to issuance of the permit.

INSPECTIONS REQUIRED:
Final System
Plan Review
Overhead Inspection
Alarm Test/UL Certification
Final

At least one business day prior notice is required to schedule an inspection appointment. Contact the San Rafael Fire Prevention Bureau at 485-3308.

SAN RAFAEL FIRE DEPARTMENT
PERMIT APPLICATION
THIS IS NOT YOUR PERMIT

## Address of Project 9000 NORTHGME MAN (SEAR'S AUTO CENTER) <br> Project/Business Name JIFFY LUEE <br> contractor's Name SNC RUMBING \& EiRE HROTEITION, INC. ( <br> Address 1730,44 TIL AVE <br> city, state, zip SAN KFANCISCO, CA 94122 Phone No. $41 G-550-1129$ (exr

Mailing Address for Invoices (if different than above)
State Contractors License :595176 C16-36 Expiration $5-31-98$
San Rafael Business License 240675
Expiration 6-31-96
A time keeping form will be kept to track time spent on your project. You will be charged for the actual time spent on your project to the nearest $\frac{1}{4}$ hour, with a minimum one hour charge. The Department will also charge direct and indirect costs for actual expenses incurred for consultant and/or contractual services plus overhead which may be necessary to review your project. The fee will be collected at the completion of your project, and an invoice will be mailed to you. Your project Permit will not receive final Fire Department approval until all fees are paid. The fees are due and payable upon receipt of the invoice and become overdue 30 days later, at which time a $1 / 2$ hour late fee and $11 / 2 \%$ per month interest will be charged. In addition to not issuing final approval, the Fire Department will pursue all other legal remedies for unpaid accounts. On projects that accumulate more than 3 hours (or $\$ 150$ ) in services, you will be invoiced during each month that the balance exceeds 3 hours (or $\$ 150$ ).

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signature


Title


UPC PERMITS:Aircraft refueling vehiclesAircraft repair hanger
Automobile wrecking yard
Bonfires or rubbish fires
$\qquad$ Bowling pin or alloy refinishing
$\qquad$ Burning in public place
_Candles and open flames in assembly areas
$\qquad$ Cellulose nitrate storage
$\qquad$ Combustible fiber storage
 Compressed gases, flammable
$\qquad$ CryogensDry cleaning plantsDust-producing operations
__ Excavations near flammable or combustible liquid pipelines
__ Explosive or blasting agents
_ Flammable or combustible liquid pipeline operation and excavation
__ Flammable or combustible liquids and tanka

## _... Fruit ripening

__ Fumigation or thermal insecticidal fogging
$\qquad$ Garages
$-\mathrm{H}$
Hazardous material e

- Gaz Mat ate characterization/ Investigation report
$\qquad$ Haze Mat ate remediation report
$\qquad$ Highly toxic pesticidesHigh-piled combustible stock
__ Junk garda
Liquefied petroleum gases
- Lumber yards
__ Magneaium working
__Mall, covered
_ Monitoring well installation
Monitoring well destruction


THESE ARE TRANSMITTED AS CHECKED BELOW:FOR APPROVALAPPROVED AS SUBMITTEDAPPROVED AS NOTEDFOR YOUR USERETURNED FOR CORRECTIONS
AS REQUESTEDFOR REVIEW AND COMMENT
RETURN $\qquad$ DRAWINGS
$\qquad$ CALCULATIONS



MAYOR

Fire Department: Phone (415) 485-3308; FAX (415) 453-1627

SAN RAFAEL FIRE DEPARTMENT

## PERMIT

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PERMIT NO:
CATEGORY:
ADDRESS OF PROJECT:
PROJECT/BUSINESS NAME:
OWNER/CONTRACTOR:
ADDRESS:
CITY, STATE, ZIP:
PHONE: (510)-651-0247

FPB 94-2054
Commercial
9000 Northgate Mall
Sears
S \& S Fire Protection, Inc. 3090 Osgood Court Fremont, CA 94539 BUSINESS PHONE:


SPRINKLER SYSTEMS

INSPECTION
PLANS REVIEWED
UNDERGROUND INSPECTION
UNDERGROUND HYDRO
UNDERGROUND FLUSH
OVERHEAD HYDRO
OVERHEAD INSPECTION
ALARM TEST
FINAL
U.L. CERT. ISSUED:

BY
WCL
N/A
N/A
N/A
N/A
WCL
N/A
WCL 06/29/94

DATE
06/16/94

# SAN RAFAEL. FIRE DEPARTMENT 

PERMIT APPLICATION

## THIS IS NOT YOUR PERMIT

Address of Project Northaate outer - Soars
Project/Business Name Sears

city, state, Zip Fremont, CA 94539 Phone No. $651-0247$ (5-10)
Mailing Address for Invoices (if different than above)

A time keeping form will be kept to track time spent on your project. You will be charged for the actual time spent on your project to the nearest $\frac{1}{4}$ hour, with a minimum one hour charge. The Department will also charge direct and indirect costs for actual expenses incurred for consultant and/or contractual services plus overhead which may be necessary to review your project. The fee will be collected at the completion of your project, and an invoice will be mailed to you. Your project Permit will not receive final fire Department approval until all fees are paid. The fees are due and payable upon receipt of the invoice and become overdue 30 days later, at which time a $1 / 2$ hour late fee and $11 / 2 x$ per month interest will be charged. In addition to not issuing final approval, the Fire Department will pursue all other legal remedies for unpaid accounts. On projects that accumulate more than 3 hours (or $\$ 150$ ) in services, you will be invoiced during each month that the balance exceeds 3 hours (or $\$ 150$ ).

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$\xrightarrow[\text { Lint Name }]{\text { La ur Spouse }}$ $\qquad$

## UTC PERMITS:

$\qquad$ Aircraft refueling vehicles
Flammable or combustible liquid pipeline operation and excavation
_- Flammable or combuatiblo liquids and tanka
_- Fruit ripening
_ Automobile wracking yard
— B Bonfires or rubble fires
_. Bowling pin or alley refinishing
_ Burning in public place
__. Candles and open flames in assembly areas
_ ${ }^{\mathbf{P}}$ Fumigation or thermal insecticidal fogging
_ Garages
_. Hazardous materials

- Hz Mat site characterization/
- Investigation report
_ Cellulose nitrate storage
$\qquad$ Combustible fiber storage
Compreiead gate, flammable
_-_Cryogens
- Dry cleaning plants
__ Dust-producing operations
-... Excavations near flammable or combuatibla liquid pipeline o
—— Hz Mac ate remediation report
_ Highly toxic pesticides
__ High-piled combustible stock
_ Junk yards
_Liquefied petroleum gases
__ Lumber yards
_- Magnesium working
_ Explosives or blatting agents
__ Mall, covered
_ Monitoring well installation
$\qquad$ Nitrate film
011 and natural gas walls
$\qquad$ Open burning
$\qquad$ Operi-flame devices in marinasOrganic coating a
$\qquad$ Ovens, industrial baking or drying _ Parade floats
_- Places of assembly
_ Radioactive materials
__ Kafrigaration equipment
__ Spraying or dipping
__ Thank vehicles
... Tints and air-supportod atructuros
__ Mire recapping
_- Waste material handing plant
__Welding and curing operations
家


## PLAN REVIEWS:

Monitoring well destruction

X Automatic Sprinkler Syatems, of heads
— Automatic Fixed Fire Extinguishing Systems (specify)

- Dry Chemical, of Nozzles $\qquad$
$\qquad$ Halon, of Nozzles
_ Ocher, explain
$\qquad$ Fire Alarm Satem
$\qquad$ Automatic Plea Detection Syaram, of detactora $\square$
_ Above Ground Tank Installation, of tanks $\qquad$ , tank capacity $\qquad$
- Above Ground Tank Removal, of tanks $\qquad$ - Lank capacity $\qquad$
_ Underground Tank Installation, of tanks $\qquad$ , tank capacity
__ Underground Tank Removal, of tanks $\qquad$ , tank capacity
Underground Tank Abandonment in Place, 1 of tank e $\qquad$ , tank capacity
$\qquad$ Underground Tank/Line Performance Teat
$\qquad$ Underground Tank Solla/Water Analytical Report
_ Ocher, explain



FIRE PROTECTION EQUIPMENT PERFORMANCE CERTIFICATE

IN ACCORDANCE WITH TITLE 19,
SUBCHAPTER 5, CALIFORNIA ADMINISTRATIVE CODE AND MUNICIPAL FIRE CODE

| ${ }^{\text {Location }} 9000$ NortHGate Mall |  |  | XAuto Sprinkler system <br> $\square$ class I - DRy standifie system <br> Class II - wet standpipe system <br> $\square$ Class III - combination standipe system <br> Class iv - combined(STANDpipe sprinkler) <br> отнER-SPECIFY $\stackrel{\text { SIFSTEM }}{ }$ |
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| San.Rafeal: Calif 94903 |  |  |  |
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| INTIAL TESTING DATE $5-6.93$ |  |  | 5.20 .93 |
| SIINATURE | TTLE | SİNat |  |
| TESTING AGENCY MASTER PROTECTION CORPORATION | $\left.\left.\right\|^{\text {LICENSE No. }}\right\|^{\text {ADD }}$ |  | ${ }^{\text {PHONE }}$ |
|  | FIRE Depart | ENT USE | ONLY |
| Frik dert. Phone NUMEER | \|Nspectoor |  | MENT |

## AUTOMATIC SPRINKLER SYSTEM

CALIFORNIA CODE OF REGULATIONS, TITLE 19, SUBCHAPTER 5


| CERTIFICATION |  |
| :---: | :---: |
| I HEREBY CERTIFY THAT THE FIRE PROTECTION EQUIPMENT INDICATED AbOVE HAS BEEN TESTED IN ACCORDANCE WITH THE CALIFORNI COOE OF REGULATIONS, TITLE 19, SUBCHAPTER 5 AND THE MUNICIPA FIRE CODE. | all necessary maintenance and repairs have been made in COMPLIANCE WITH THE CALIFORNIA CODE OF REGULATIONS, TITLE 19. SUBCHAPTER 5 AND THE MUNICIPAL FIRE CODE. |
| Intial testing date | $\text { FINAL TESTNG DATI } 20.93$ |
|  |  |
| MASTER PROTECTION CORPORATION | Phone |
| FIRE DEPT. PHONENO. |  |
|  |  |




## AUTOMATIC SPRINKLER SYSTEM

## CALIFORNIA CODE OF REGULATIONS, TITLE 19, SUBCHAPTER 5




Fire Department
September 17, 1992

Mr. Jim Chisholm
Sears Roebuck \& Co. 9000 Northgate Mall
San Rafael, CA 94903
Dear Mr. Chisholm:
Based upon your request for an annual permit for the erection of a sales tent several times a year, your request has been granted if the following conditions are met for each installation:

1. Notify the Fire Department prior to the dates of the tent erection, with the days of the event and take down.
2. The Permit is for the exclusive use of Sears Roebuck, with the State Fire Marshal labeled tent you now own.
3. All other conditions apply as stated in the standards previously provided.
4. The Permit is to be renewed annually (prior to September 30).

If you have any further questions regarding this Permit, please do not hesitate to phone.

Sincerely,
ROBERT E. MARCUCCI
Fire Chief


BRADLEY R. MARK
Fire Inspector
REM:BRM:ss
Enclosure

SAN RAFAEL FIRE DEPARTMENT

PERMIT

This Permit has been issued to the following, pursuant to the conditions stipulated herein and in conformance with Uniform Fire Code, state and local ordinances.

This Permit expires when change of ownership, business name, or conditions outlined herein occur. This Permit shall be posted, visible and made available upon request by the Fire Prevention Inspector. This Permit may be revoked at any time for due cause in violation of the Uniform Fire Code.

PERMIT NO: FPB 92-1057
ADDRESS OF PROJECT: 9000 Northgate Mall
PROJECT/BUSINESS NAME: Sears Roebuck \& Co.
OWNER/CONTRACTOR: Attn: Jim Chisholm
ADDRESS:
9000 Northgate Mall
CITY, STATE, ZIP:
San Rafael, CA 94903
PHONE:


PERMIT: Tents and Air-Supported Structures
CONDITION: Article 12, UFC CONDITION: Article 32, UFC CONDITION: Title 19, CCR CONDITION: Title 24, CCR

ADDITIONAL CONDITIONS:
This permit expires Sept. 30,1993. For additional conditions refer to letter in file.

# SAN RAFAEL FIRE DEPARTMENT <br> PERMIT (Continuation) 

PERMIT NO: FPB 92-1057
PROJECT/BUSINESS NAME: Sears Roebuck \& Co.
OWNER/CONTRACTOR: Attn: Jim Chisholm
PERMIT: Tents and Air-Supported Structures
INSPECTION REQUIRED INSPECTED BY ..... DATE
$472-3670$
san rafael fire department PERMIT APPLICATION THIS IS NOT YOUR PERMIT
 Contractor's Name

Address
City, State, Zip $\qquad$ Phone No.
Mailing Address for Invoices (if different than above)
State Contractors License
San Rafael Business License $\qquad$ Expiration $\qquad$



A time keeping form will be kept to track time spent on your project. You will be charged for the actual time spent on your project to the nearest $\frac{1}{4}$ hour, with a minimum one hour charge. The Department will also charge direct and indirect costs for actual expenses incurred for consultant and/or contractual services plus overhead which may be necessary to review your project. The fee will be collected at the completion of your project, and an invoice will be mailed to you. Your project Permit will not receive final Fire Department approval until all fees are paid. The fees are due and payable upon receipt of the invoice and become overdue 30 days later, at which time a $1 / 2$ hour late fee and $1 \mathbf{1 / 2 x}$ per month interest will be charged. In addition to not issuing final approval, the Fire Department will pursue all other legal remedies for unpaid accounts. On projects that accumulate more than 3 hours (or $\$ 150$ ) in services, you will be invoiced during each month that the balance exceeds 3 hours (or $\$ 150$ ).

I have read the above statement regarding fees for this project, and $I$ understand how the fees will be calculated, agree to pay such fees and understand that they are due prior to final acceptance of my project. Further, under penalty of perjury, I declare that I am duly authorized to encumber expenses on behalf of the firm listed above.

_ Aircraft refueling vehicles
__ Aircraft repair hanger

- Automobile wrecking yard
$\qquad$ Bonfires or rubbish fires
$\qquad$ Bowling pin or alley rofindahing
$\qquad$ Burning in public place
- 

Candles and open flames in assembly areas
$\qquad$ Colluloae nitrate storage
Combustible fiber storage
$\qquad$ Compress gates, flammable
_ Cryogen a
_ Dry cleaning plants
__ Dust-producing operations

- Excavations near flammable or combuariblo liquid pipelines
__. Explosives or blasting agent

_ Flammable or combustible liquid pipeline operation and excavation
__ Flammable or combustible liquids and tanks
- Fruit ripening
- Fumigation or thermal insecticidal fogging
_- Garage
_ Hazardous materials
- Haze Mat el to characterization/ Investigation report
__ Haz Mat bite remediation report
__ Highly toxic pesticides
__ High-piled combustible stock
_... Junk yards
__ Liquefied petroleum ganesa
- Lumbar yard
__ Magneaium working
Mall, covered ${ }^{-1}$
_ Monitoring well installation
= Monitoring well destruction


## PLAN REVIEWS:

## —_Aucomatic Sprinkler Systems, of heads

__ Automatic Fixed Fire Extinguishing Systems (specify)

- Dry Chemical, of Nozzles $\qquad$
_-. Halon, of Nozzle $\qquad$
_ Other, explain
_-_ Fire Alarm System
- Automatic Fire Detection System, 1 of detectors
__ Above Ground Tank Installation, of tanks $\qquad$ , tank capacity
_ Above Ground Tank Removal, of tanks $\qquad$ , tank capacity $\qquad$ 4. ALLOTHEN CONDITIOAS
_ Underground Tank Installation, of tanks $\qquad$ , tank capacity $\qquad$ APPLY AS STATED IN
_- Underground Tank Removal, oof tanks $\qquad$ , tank capacity $\qquad$ THE STANDARD.
-. Underground Tank Abandonment in Place, 1 of tanka $\qquad$ , tank capacity
- Underground Tank/Line Performance Tout
- Underground Tank Solle/Water Analytical Report
_ Other, explain


#   

Contractor's Name

## Address

$\qquad$
City, State, Zip
Phone No. $\qquad$
Mailing Address for Invoices (if different than above)
State Contractors License $\qquad$

## Expiration

$\qquad$
San Rafael Business License $\qquad$ Expiration $\qquad$
A time keeping form will be kept to track time spent on your project. You will be charged for the actual time spent on your project to the nearest $\frac{1}{4}$ hour, with a minimum one hour charge. The Department will also charge direct and indirect costs for actual expenses incurred for consultant and/or contractual services plus overhead which may be. necessary to review your project. The fee will be collected at the completion of your project, and an invoice will be mailed to you. Your project Permit will not receive final Fire Department approval until all fees are paid. The fees are due and payable upon receipt of the invoice and become overdue $\mathbf{3 0}$ days later, at which time a $1 / 2$ hour late fee and $1 \mathbf{1 / 2 \%}$ per month interest will be charged. In addition to not issuing final approval, the Fire Department will pursue all other legal remedies for unpaid accounts. On projects that accumulate more than 3 hours (or $\$ 150$ ) in. services, you will be invoiced during each month that the balance exceeds 3 hours (or $\$ 150$ ).

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## UPC PERMITS:

Aircraft refueling vehiclesAircraft repair hanger_ Automobile wrecking yard
Bonfires or rubbish firesBowling pin or allay refinishingBurning in public placeCandles and open flames in assembly areas
$\qquad$ Cellulose nitrate storageCombustible fiber storageCompressed gases, flammable
$\qquad$ Cryogens
-
ry cleaning plants
-
Just-producing operations

- Excavations near flamabble or combustible liquid pipelines
__. Explosives or blasting magenta
Flammable or combustible liquid pipeline operation and excavation
x Flammable or combustible liquids and tanka Fruit ripening
Fumigation or thermal insecticidal fogging
즌 Garages
$\qquad$ Hazardous materials
— H 2 Mnt site characterization Investigation report
— Hz Mat site remediation report
Highly toxic pesticides
- 

High-piled combustible stock
_- Junk yard

- 1

Liquafiad petroleum gases

- Lumber yards
—
Magnesium working
- M

Mall, covered
__ Monitoring well installation

- Monitoring well destruction


## plan mevimis:

_ Automatic Sprinkler Systems, of hade $\qquad$
_ Automatic Fixed Fire Extinguishing Systems (specify)

- Dry Chemical, of Nozzles $\qquad$
_ Hs ion, of Nozzles $\qquad$
-. Ocher, explain
$\qquad$ Plate Alarm System
$\qquad$ Automatic Fire Detection System, of detectors $\qquad$
$\qquad$ Above Ground Tank Installation, of tanks $\qquad$ , tank capacity $\qquad$
$\qquad$ Above Ground Tank Removal, of tanks $\qquad$ , tank capacity $\qquad$ Underground Tank Installation, of tanka $\qquad$ , tank capacity $\qquad$
$\qquad$
$\qquad$ , tank capacity $\qquad$
Underground Tank Abandonment in Place, of tank $\qquad$ , tank capacity
__ Underground Tank/Line Porformance Test
__ Underground Tank Soila/Water Analytical Report:
__Ocher, explain

SAN RAFAEL FIRE DEPARTMENT
PERMIT
This Permit has been issued to the following, pursuant to the conditions stipulated herein and in conformance with Uniform Fire Code, state and local ordinances.

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PERMIT NO: FPB 92-1029
ADDRESS OF PROJECT: 9000 Northgate Mall PROJECT/BUSINESS NAME: Sears Roebuck \& Co. OWNER/CONTRACTOR: Attn: Jim Chisholm ADDRESS: 9000 Northgate Mall CITY, STATE, ZIP: San Rafael, CA 94903 PHONE: (415)-472-3670 BUSINESS PHONE:


PERMIT: Tents and Air-Supported Structures
CONDITION: Article 12, UFC
CONDITION: Article 32, UFC
CONDITION: Title 19, CCR
CONDITION: Title 24, CCR

# SAN RAFAEL FIRE DEPARTMENT <br> P ERMIT (Continuation) 

PERMIT NO: FPB ..... 92-1029
PROJECT/BUSINESS NAME: Sears Roebuck \& Co.
OWNER/CONTRACTOR: Attn: Jim Chisholm
PERMIT: Tents and Air-Supported Structures INSPECTION REQUIRED INSPECTED BY ..... DATE

# SAN RAFAEL. FIRE DEPARTMENT <br> PERMIT APPLICATION <br> THIS IS NOT YOUR PERMIT 

Address of Project

## Contractor's Name

Address


Mailing Address for Invoices (if different than above)
State Contractors License $\qquad$ Expiration
San Rafael, Business License $\qquad$ Expiration $\qquad$


A time keeping form will be kept to track time spent on your project. You will be charged for the actual time spent on your project to the nearest hour, with a minimum one hour charge. The Department will also charge direct and indirect costs for actual expenses incurred for consultant and/or contractual services plus overhead which may be necessary to review your project. The fee will be collected at the completion of your project, and an invoice will be mailed to you. Your project Permit will not receive final Fire Department approval until all fees are paid. The fees are due and payable upon receipt of the invoice and become overdue $\mathbf{3 0}$ days later, at which time a $1 / 2$ hour late fee and $11 / 2 \%$ per month interest will be charged. In addition to not issuing final approval, the Fire Department will pursue all other legal remedies for unpaid accounts. On projects that accumulate more than 3 hours (or $\$ 150$ ) in services, you will be invoiced during each month that the balance exceeds 3 hours (or $\$ 150$ ).

I have read the above statement regarding fees for this project, and I understand how the fees will be calculated, agree to pay such fees and understand that they are due prior to final acceptance of my project. Further, under penalty of perjury, I declare that I am duly authorized to encumber expenses on behalf of the firm listed above.

-
Aircraft refueling vehiclesAircraft repair hangarAutomobile wrecking yardBonfires or rubbish firesBowling pin or alloy refinishingBurning in public place

- Candles and open flames in assembly areasCellulose nitrate storageCombustible fiber storageCompressed gases, flammable
$\qquad$ Cryogens
$\qquad$ Dry cleaning plants
-Dust-producing operations
- Excavations near flammable or combuatiblo liquid pipeline e
__ Explosives or blasting aganta


## - . . $\cdot$ =



Placable or combuotible liquid pipeline
operation and excavation operation and excavation
__ Flammable or combustible liquid and tanka
_ Fruit ripening
__ Fumigation or thermal insecticidal fogging
_ Garage
— Hazardous materials

- Hz Mat gite characterization/ Investigation report
$\qquad$ Ha z Mat alta remediation report

> _ Highly toxic pesticidoa
__ High-piled combustible stock
__ Junk yard
EL Liquefied petroleum gases

- Lumber garda
_ Mngnarium working
__ Mall, covered
__ Monitoring wall installation
=. Monitoring well doatruction

PLAN RETVIKMS:
__ Automatic Sprinkler Systems, of hands $\qquad$
_ Automatic Plead Fire Extinguishing Syatoma (specify)

- Dry Chemical, of Nozzian
__ Halon, of Nozzles $\qquad$ - Other, explain.
$\qquad$ Fife Alarm System
- Automatic Fire Detection System, of detectors
- Above Ground Tank Installation, of tanks $\qquad$ , tank capacity
- Above Ground Tank Removal, of tanks $\qquad$ , tank capacity
$\qquad$
_ Underground Tank Installation, of tanka $\qquad$ , tank capacity
$\qquad$ , tank capacity
__ Underground Tank Abandonment In Place, of tanka
_ Underground Tank/Line Performance Teat
__ Underground Tank Soila/Watar Analytical Report
__ Ocher, explain



## MAYOR

LAWRENCE E. MULRYAN
COUNCIL MEMBERS
ALBERT J. BORO
DOROTHY L. GREENER
MICHAEL A. SHIPPEY
JOAN C. THAYER

# Fire Department 

```
January 24, 1992
```

Mr. Jim Chisholm
Sears
9000 Northgate Mall
San Rafael, CA 34903
Dear Mr. Chisholm:
In looking through the file, I see there is no permit to utilize flammable or combustible liquids. Also the permit to operate a garage is not on file.

On the application form, I have check these two areas. If there are others related to the shop, please mark those areas, i.e., compressed gasses, flammables. There is only one fee for the application of more than one permit.

Please return the application to the San Rafael Fire Department, 1039 C Street, San Rafael, CA 94901 within the next two weeks. Thank you.

Sincerely,
ROBERT E. MARCUCCI
Fire Chief

BRADLEY R! MARK
Fire Inspector
REM:BRM:ss
Enclosure

MAYOR

Fire Department: Phone (415) 485-3308; FAX (415)453-1627
SAN RAFAEL FIRE DEPARTMENT

## PERMIT

This Permit has been issued to the following, pursuant to the conditions stiuplated herein and in conformance with Uniform Fire Code, state' and local ordinances.

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PERMIT NO:
CATEGORY:

ADDRESS OF PROJECT: PROJECT/BUSINESS NAME: OWNER/CONTRACTOR:
ADDRESS:
CITY, STATE, ZIP:
PHONE: (510)-834-2333

FPB 91-2170
Commercial
9000 Northgate Mall
Sears
Scott Co.
1919 Market St.
Oakland, CA 94607
BUSINESS PHONE:


SPRINKLER SYSTEMS

INSPECTION
PLANS REVIEWED
UNDERGROUND INSPECTION
UNDERGROUND HYDRO
UNDERGROUND FLUSH
OVERHEAD HYDRO
OVERHEAD INSPECTION
ALARM INSPECTION
ALARM TEST

## BY

N/A
N/A
NA
N/A
N/A
brr 12/09/91
N/A
N/A
U.L. CERT. ISSUED:

COMMENTS: This permit is for three separate locations. Each project will need new permits.

# - 91-2170 

SAN rafael fire department
PERMIT APPLICATION
50693-63-4002

|  | THIS |  |
| :---: | :---: | :---: |
|  | 9000 North Gate Mall | [DEC I 61991 |
| Address of Project Project/Business Name | Sears San Rafael | FIRE OHMT $\qquad$ CITYOPSAN RAFAEL |
| Contractor's Name | Scott Co. |  |
| Address | 1919 Market St. |  |
| City, State, | Oakland, Ca. 94607 | 834.2333 ext. 3382 |

Mailing Address for Invoices (if different than above) 1919 Market St. Oakland, Ca. 94607

State Contractors License \& 184480
San Rafael Business License 022309
Expiration may ol, 1992
Expiration December 31, 1991

A time keeping form will be kept to track time spent on your project: You will be charged for the actual time spent on your project to the nearest $\frac{1}{4}$ hour, with a minimum one hour charge. The Department will also charge direct and indirect costs for actual expenses incurred for consultant and/or contractual services plus overhead which may be necessary to review your project. The fee will be collected at the completion of your project, and an invoice will be mailed to you. Your project Permit will not receive final Fire Department approval until all fees are paid. The fees are due and payable upon receipt of the invoice and become overdue 30 days later, at which time a $1 / 2$ hour late fee and $11 / 2 \%$ per month interest will be charged. In addition to not issuing final approval, the Fire Department will pursue all other legal remedies for unpaid accounts. On projects that accumulate more than 3 hours (or $\$ 150$ ) in services, you will be invoiced during each month that the balance exceeds 3 hours (or $\$ 150$ ).

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$\frac{\text { Plumbing Foreman }}{\text { Title }}$ $\qquad$ $\frac{\text { December } 12,1991}{\text { Date }}$
UFC PERMTS:
$\qquad$ Alrcraft refueling vohicios
_Alrcraft repair hanger
__ Automobile wrecking yard
_- Bonfiras or rubbleh fires
_ Bowilng pin or allay refiniahing
Burning in public place

- Candlea and open flames in assambly areas
_ Cellulose nitrate storage
__ Combustible flber atorage
__ Comprosesed gases, flaumable
__ Cryogens
_ Dry cloaning planta
__ Duat-producing operations
- Excavations near flammable or
combustible líquid plpolinea
___ Explosives or blasting agento

| Flammable or combustible liquid plpeline oparation and excavation |  |
| :---: | :---: |
| Plamable or combustible liquids and tanks <br> Pruit ripening |  |
|  |  |
| - | Pumigation or thermal insecticidal fogging |
| - | Garages |
| - | Hazardous materials |
| - | Haz Mat site characterization/ Investigation report |
| - | Haz Mat site remediaction roport |
| - | Highly toxic pesticides |
| - | High-pilad combustible stock |
| - | Junk yarde |
| - | Liquefied petroleum gasea |
|  | Lumber yarda |
|  | Magnesium working |
|  | Mall, covarad |
|  | Monitoring well inatallation |
|  | Monitoring well dastruction |

$\qquad$ Nitrate film
$\qquad$ Oil and natural gas walls

- Open burning
- Opan-flamo dovices in marinas
__ Organic coatinge
__ Ovens, industrial baking or drying
- Parado floate
__ Places of assembly
_- Radioactive materials
__ Refrigeration equipment
_ Spraying or dipping
- Tank vahicles
__Tents and alr-supported structures
__ Tire rocapping
.-. Waate material handling plant
___Welding and cutting operations


## PLAN REVIEMS:

X Automatic Sprinkler Syatoms, 1 of hoads 3 seperate areas less than 10 each area.
__ Automatic Fixed Fire Extinguishing Systems (specify)

- Dry Chemical, of Nozzles $\qquad$
- Halon, of Nozzles $\qquad$
__ Other, explain
_ Pire Alarm System
_ Automatic Fire Detection Syatem, of detectors $\qquad$
-. Above Ground Tank Installation, of tanks $\qquad$ , tank capacity $\qquad$
- Above Ground Tank Removal, of tanks $\qquad$ tank capacity $\qquad$
__ Underground Tank Installation, of tanks $\qquad$ tank capacity $\qquad$
__ Underground Tank Removal, of tanks $\qquad$ , tank capacity
_. Undorground Tank Abandonment in Plnce, of tanke $\qquad$ , tank capacity
-. Underground Tank/Line Performanca Test
_- Undorground Tank Solla/Water Analytical Roport
___ Other, explatn


## October 14, 1991

| To: | Captain Tuohy |
| :--- | :--- |
| From: | Bradley Mark |
| Subject: | Sears Automotive |
|  | Sears Second Floor |

Inspection Date: October 9, $1 \hat{991}$

## Automotive:

110\%3. Fix emergency lights in West stairwell Q 6 -4. Apply for permit.
$\theta \sqrt{-} \left\lvert\, \frac{5 i l}{\text { Lighting along west, new parts sprinklers. }}\right.$
Second Floor: Sprinkler contractor must contackthe Fire Department prior to modifications for a permit.
Sprinklers have been installed in the eyeglass area and the furniture area.
1.0.922. Label manual val us. Signs. Carpet storagestarea ceiping has holes. Much work has been completed.

Items Completed:
\#31

\#51
\#68
\#61

REINSPECTION DATE: November 6, 1991
A Pre-Citation will be issued if items not completed.

$$
\begin{aligned}
& \text { 1-24-92- AT THIS TIME ALL ABOUE VIOLATIONS } \\
& \text { HAVE BEEN REARED AN APERY APPLICATION } \\
& \text { HAS BEEN SENT TO MR CHISIAOM. }
\end{aligned}
$$

CITY OF SAN RAFAEL.
FIRE PREVENTION BUREAU
INSPECTION NOTICE
JOB LOCATION AT: SEARS AUTOMOTIVE,

Your job was inspected today and the following corrections are required. When the corrections have been made, call (415) 485-3308 for a re-inspection. Renirppet....
(1) HANG ExTINGUISHEPS-1 IN worxarEA
gi inunise Recontakep cousin?


 AlD ETA 1
$\qquad$
$\qquad$
$\qquad$
$\qquad$ collod-3-32 -
$\qquad$
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$\qquad$
$\qquad$


Fire Department
DO NOT REMOVE THIS NOTICE
$11.7 .918: 22$ 2ND call - 4 H MG G

!rio. C ri
CITY OF SAN RAFAEL
FIRE PREVENTION BUREAU
INSPECTION NOTICE
JOB LOCATION AT: SEARS MAIN STOR L,
Your job was inspected today and the following corrections are required. When the corrections have been made, call (415) 485-3308 for a re-inspection.

Reinspect-
(1) SPRINKLER AddiTIon in FURIOITURE 0191 An RA BACK POOM ll as NOT correct livstallep. have
$1-10-9.2$
BYREDEAT MAyBe NDTALedOxNNOeDFO
(2) IABEL MAMUAL UALDESABP YRASAL CHMTE (SPRinkler valued). SIGNS.
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

Date: $10 \cdot 9.91$ By: $\qquad$
Fire Department
DO NOT REMOVE THIS NOTICE

MAYOR
LaWRENCE E. MULRYAN
COUNCIL MEMBERS ALBERT J. BOR DOROTHY L. BRENNER MICHAEL A SHIPPEY JOAN C. THAYER

SAN RAFAEL FIRE DEPARTMENT
PERMIT
This Permit has been issued to the following, pursuant to the conditions stipulated herein and in conformance with Uniform Fire Code, state and local ordinances.

This Permit expires when change of ownership, business name, or conditions outlined herein occur. This Permit shall be posted, visible and made available upon request by the Fire Prevention Inspector. This Permit may be revoked at any time for due cause in violation of the Uniform Fire Code.

PERMIT NO: FPB 91-1033
ADDRESS OF PROJECT: 9000 Northgate Mall PROJECT/BUSINESS NAME: Sears
OWNER/CONTRACTOR:
ADDRESS:
CITY, STATE, ZIP:
PHONE: (415)-472-3670
Attn: Jim Chisholm
9000 Northgate Mall
San Rafael, CA 94903
BUSINESS PHONE:


PERMIT: Mall, Covered
CONDITION: Article 35, UFC
Vehicle on display

SAN RAFAEL FIRE DEPARTMENT
$9 /-1033$
PERMIT APPLICATION
THIS IS NOT YOUR PERMIT
address of Project 9000 Norrigatiz Mack San Raffle Ca ic
Project/Business Name $\qquad$ Contractor's Name $\qquad$
Address
City, State, Zip $\qquad$ Phone No. $\qquad$
Mailing Address for Invoices (if different than above)
State Contractors License $\qquad$ Expiration $\qquad$ $+$

San Rafael Business License $\qquad$ Expiration $\qquad$
A time keeping form will be kept to track time spent on your project. You will be charged for the actual time spent on your project to the nearest hour, with a minimum one hour charge. The Department will also charge direct and indirect costs for actual expenses incurred for consultant and/or contractual services plus overhead which may be necessary to review your project. The fee will be collected at the completion of your project, and an invoice will be mailed to you. Your project Permit will not receive final Fire Department approval until all fees are paid. The fees are due and payable upon receipt of the invoice and become overdue 30 days later, at which time a $1 / 2$ hour late fee and $11 / 2 \%$ per month interest will be charged. In addition to not issuing final approval, the Fire Department will pursue all other legal remedies for unpaid accounts. On projects that accumulate more than 3 hours (or $\$ 150$ ) in. services, you will be invoiced during each month that the balance exceeds 3 hours (or $\$ 150$ ).

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UPC PKRITIS:
$\qquad$ Aircraft refueling vehiclesAircraft repair hangerAutomobile wrecking yard
$\qquad$ Bonfires or rubbish fires
__ Bowling pin or alley refinishing
$\qquad$ Burning in public place
_-. Candles and open flames in assembly areas
$\qquad$ Cellulose nitrate storageCombustible fiber storageCompressed gases, flammable
Cryogens
$\qquad$ Dry cleaning plants
-
Duat-producing operations
-_ Excavations near flammable or combuatible liquid pipelines
$\qquad$ Explosives or blasting agent a


Title

- Flammable or combustible liquid pipeline operation and excavation
$\qquad$
_Garage
- Hazardous materials
- Hz Mat site characterization/ Investigation report
$\qquad$ Haze Mat ate remediation report
$\qquad$ Highly toxic pesticides
$\qquad$ High-piled combustible stock
$\qquad$ Junk yard
Liquefied petroleum gases
- 

Lumber garda
Magnesium working
Mall, covered - UBHCCE
Monitoring wall installation
Monitoring wall destruction

PLAN REVIEwS:
$\qquad$ Automatic Sprinkler Syateme, of hade $\qquad$
Automatic Fixed Fire Extinguishing Systems (apacify)
_- Dry Chemical, of Nozzles $\qquad$
_Halon, of Nozzles $\qquad$
_ Other, explain
$\qquad$ Fire Alarm System
$\qquad$ Automatic Fire Detection System, of detectors
_- Above Ground Tank Installation, of tanks $\qquad$ , tank capacity $\qquad$
_... Above Ground Tank Removal, of tanks $\qquad$ tank capacity $\qquad$ _ Underground Tank Installation, of tanks $\qquad$ , tank capacity $\qquad$

- Underground Tank Removal, of tanks $\qquad$ , tank capacity $\qquad$
__ Underground Tank Abandonment in Place, of tanks $\qquad$ , tank capacity
$\qquad$ Underground Tank/Line Performance Teat
$\qquad$ Underground Tank Solle/Water Analytical Report
_ Other, explain


## PE R M IT

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PERMIT NO: FPB 91-1029
ADDRESS OF PROJECT: 9000 Northgate Mall
PROJECT/BUSINESS NAME: Sears Roebuck
OWNER/CONTRACTOR: Sears Roebuck
ADDRESS:
9000 Northgate Mall
CITY, STATE, ZIP: San Rafael, CA 94903
PHONE: (415)-472-3670 BUSINESS PHONE:


PERMIT: Tents and Air-Supported Structures
CONDITION: Article 12, UFC CONDITION: Article 32, UFC
CONDITION: Title 19, CR
CONDITION: Title 24, CR

# san rafael fire department 



Contractor's Name
Address $\qquad$
City, State, Zip $\square$ 94903
City, State, Zip
Mailing Address for Invoices (if different than above)
State Contractors License : $\qquad$

## Expiration

$\qquad$
San Rafael Business License $\qquad$ Expiration $\qquad$
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## UTC PERMITS:

Aircraft refueling vehicles
Aircraft repair hanger
__ Automobile wrecking yard
__ Bonfires or rubbish fires
_ Bowling pin or alley refinishing
$\qquad$ Burning in public place
_- Candles and open flames in assembly areas Cellulose nitrate storage Combustible fiber storage
$\qquad$ Compressed gases, flammable
Cryogens
Dry cleaning plants
__ Dust-producing operations

- Excavations near flammable or combustible liquid pipelines
_ Explosives or blasting agate
- $\begin{gathered}\text { Flammable or combustible } \\ \text { Operation and } \\ \text { excavation }\end{gathered}$ liquid pipeline
_ Playable or combustible liquids and tanka
_ Fruit ripening
__ Fumigation or thermal insecticidal fogging
- Garages
_- Hazardous material a
- Hay Mat of te characterization/

Investigation report
— Haze Mat bite remediation report
__ Highly toxic pesticides
__ High-piled combustible stock
_ Junk garda
__ Liquefied petroleum gases

- Lumber yards
__ Magnesium working
__ Mall, covered
_ Monitoring well installation
_ Monitoring well destruction

PLAN RRVIKMS:
_. Automatic Sprinkler Syatama, of heads
_- Automatic Fixed Fire Extinguishing Systems (specify)
_ Dry Chemical, of Nozzles $\qquad$
_ Halon, of Nozzles $\qquad$
__ Other, explain
$\qquad$ Pies Alarm System
$\qquad$ Automatic Fire Detection System, of detectors $\qquad$
_. Above Ground Tank Installation, of tanks $\qquad$ , tank capacity $\qquad$
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_ Underground Tank Installation, of tanks $\qquad$ , tank capacity
_. Underground Tank Removal, of tank e $\qquad$ tank capacity
$\qquad$
$\qquad$
$\qquad$ , tank capacity
$\qquad$ Underground Tank/Line Performance Teat
$\qquad$ Underground Tank Solla/Water Analytical Report
$\qquad$ Other, explain


MAYOR
LAWRENCE E, MULRYAN
COUNCIL MEMBERS ALBERT J. BOR DOAOTHY L. BREINER MICHAEL A. SHIPPEY JOAN C. THAYEA

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FERMIT NO: FFB 91-1008
ADDRESS OF PROJECT: 9000 Northgate Mall
PRDJECT/BUSINESS NAME: Sears Roebuck OWNER/CONTRACTOR: ADDRESS:
CITY, STATE, RIF:
Attn: Keith Hooper, Sales Mgr91100
9000 North gate Mall
PHONE: (415)-472-3670
San Rafael, CA 94903 BUSINESS PHONE:


FERMIT: Tents and Air-Supported Structures
CONDITION: Article $1 E$, UPC
CONDITION: Article $3 E$, UPC
CONDITION: Title 19, CCR
CONDITION: Title 24, CCR


## SAN RAFAEL FIRE DEPARTmENT PERMIT APPLICATION THIS IS NOT YOUR PERMIT

Address of Project GOAO NonthgatLE Mali Project/Buginess Name
Business Phone No. SlieR Rocibuck

Contractor's Name
No. $\frac{472-3670}{A C \operatorname{Ardtan} y}$ TENT AND CANVAS

 Phone No. $454-684901472-6771$

## State Contractors License

$\qquad$

## Expiration

Expiration $\qquad$
San Rafael Business License $\ddagger$ $\qquad$
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$\qquad$ Aircraft fapair hanger Automobile wrecking yard

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- Bowing pin ar alley rofintohing
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- Candhoo and open flame e in
_ Collulese alcrafa forage
- Combuatibia fiber storage
__- Comprasead gabar, flammable
.... Cryogens
- 

Dry clashing plate:
-
Dust-producing operations

- Excnvariong wear flamabio or
_- Explosiváa ur blatting agent

- Monitoring well destruction
plan minters:
$\qquad$
.. Automatic Sprinkler Sysctma, f of hand
—— Automate Fixed Fire Extinguishing Systems (specify)
_- Dry Chemical, O of Nozzles $\qquad$
- Halon, of Hozeleg $\qquad$


## $\qquad$ Other, explain

## __ Pita Alarm Syotam

_. Automatic Pisa Detection Syotem, of detectors
__ Above Ground Tank Inacaldation, of tanka $\qquad$ , tank capactry $\qquad$
-.. Above Ground Tank Removal, of tanks $\qquad$ , tank capacity $\qquad$
— Underground Tank Installation, of tank e

- Underground Tank Removal, of tanks $\qquad$ , tank eapreity
$\qquad$
_ Undorground Tank Abandonment in Place, of cankn $\qquad$ , Lank capacity
- Underground Tank/Lina Performance Test
- Underground Tank Soina/Water Analytical Report
_-. Other, explatu
2.4.12. 91 08:12 PM *SEARS SAN RAFAEL CA. PO2


## Alta. SAMQ0N. <br> FTPLET



$52 \% 75$
SROH 106 MnH
1上von!

## CONTROL NO.

CUSTOMER ORDER NO.
CUSTOMER INVOICE NO.
YARDS OR QUANTITY
COLOR_SHITE
STYLE TENT
OATE PROCESSED_4/12/91

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Address of Project 9000 Northgate Mall
Project/Business Name $\qquad$
Type of Permit UFC, Welding/Cutting_ Permit No. FPB 91-028
Contractors Name Operations

$\qquad$ Phone No. $492=8115$

## 



Date $3 / \cos$
 Conditions:


Application
Complete
 Incomplete* $\qquad$ Date $\qquad$ *

$\square$

tach block represents $\frac{1}{4}$ hour -- Codes: 1 -Plan Review, 2 - Field inspection, 3 - Cancellation, 4 - U cher


# SAN RAPAEL FIRE DEPARTMENT <br> PERMIT APPLICATION <br> THIS IS NOT YOUR PERMIT 

RECEIVED
FEB 281991
Address of Project 9000 Northgate Mall, San Rafael, CA 94903
Project/Business Name Sears Roebucli \& Co. $8 / 08$ CIT OFEDANRAFAGL
Business Phone No. (415) 492-8115


City, State, Zip San Rafael, CA 94903
Phone No. (707) 492-81.15
State Contractors License 1428 C
San Rafael Business License \# 012120

## Expiration Chicago Towers Expiration 12/31/91

A time keeping form will be kept to track time spent on your project. You will be charged for the actual time spent on your project to the nearest $1 / 4$ hours, with a minimum one hour charge. The fee will be collected at the completion of your project, and an invoice will be mailed to you, Your project Permit will not receive final Fire Department approval until all fees are paid. The fees are due and payable upon receipt of the invoice and become overdue 30 days later, at which time a $1 / 2$ hour late fee and $1 / 2 \%$ per month interest will be charged. In addition to not issuing final approval, the Fire Department will pursue all other legal remedies for unpaid accounts. On projects that accumulate more than 3 hours in services, you will be involced during each month that the balance exceeds 3 hours.

I have read the above statement regarding fees for this project, and $I$ understand how the fees will be calculated, agree to pay such fees and understand that they are due prior to final acceptance of my project. Further, under penalty of perjury, I declare that $I$ am duly


UFC PKRMTS:
$\qquad$ Alccraft rofuoling vehiclesAlrcraft repair hangerAutomobile wrecking yard
$\qquad$ Bonfiras or rubbish fires
$\qquad$ Bowling pin or alley refinithingBurning in public placeCandlea and open flames in assembly areas
Cellulose nitrato atorage Combustible fiber storage Compressed gases, flammable
$\qquad$ CryogensDry cleaning plants
$\qquad$ Dust-producing oparations

- Excavationa noar flammable or combustible liquid pipelinea
$\qquad$ Explosivos or blasting agents

_ Nitrate film
$0: 1$ and natural gas wells
$\qquad$ Open burning
$\qquad$ Opon-flame devices in marinas
$\qquad$ Organic coatingoOvens, industrial baking or drying
__ Parade floatsPlaces of assemblyRadioactive materialeRefrigeration equipment
__ Spraying or dipping
_- Tank vohicles
_ Tente and alr-supportod structures
- Tire recapping

7 Waate material handling plant
X Wolding and cutting oparations
Moniforing wall installation
$\qquad$
__ Monitoring well dastruction
PLAN REVIKNS:
$\qquad$ Automatic Sprinkler Systems, of heads
_... Automatic Fixad Fire Extinguishing Systems (apacify)
$\qquad$ Dry Chemical, of Nozzles
__ Halon, 1 of Nozzles $\qquad$

- Orher, explain
$\qquad$ Fife Alarti Sybtem
— Automatic Plife Detection Syatem, of detectors $\qquad$
- Above Ground Tank Installation, of tanka $\qquad$ , tank capacity $\qquad$
_ Above Ground Tank Removal, of tanks $\qquad$ , tank capacity $\qquad$
Underground Tank Installation, of tanks $\qquad$ , tank capacity
_ Underground Tank Removal, of tanka $\qquad$ , tank capacity
$\qquad$
— Underground Tank Abandonment in Place, of tanke $\qquad$ , tank capacity
_ Underground Tank/Line Performance Teat
- Underground Tank Soila/Water Analytical Report
_ Ocher, explain


# B Imam an 

$\qquad$ FM $\qquad$ Refer to FPB
At the time of the inspection those items marked in columns 1.2 or 3 were found to be in violation and shall be corrected immediately. Re-inspections occur in approximate two week intervals. Items marked under NA or OK were either not applicable or were in compliance at the time of the inspection.
B-2:General Businesses - office, wholesale and retail stores, factories; workshops using materials not highly flammable or combustible, drinking/dining establishments, school rooms for those beyond the 12 th grade', for less than 50 people, wóodworking'and cabinet shops which are owner operated or where not more than one employee is operating one piece of equipment or'appliance.'

GENERAL REQUIREMENTS AND SPECIAL HAZARDS

- Install approved address identification
* 2. Individual workstation trash cans shall be metal or approved equal.
* 3. "Trash cans used for collection shall be metal or approved equal with a lid

5.     - Remove accumulation of waste material on exterior of building.
6. Maintain 30 " clearance of combustibles to heat producing appliances
7. Maintain all area or occupancy separation walls and draft stops.
8. Maintain in operable condition and remove all obstructions to fire/smoke doors and fire dampers

* 14. Keys needed for access to all portions of bulling are current and in knox Box. If


## EXITING REQUIREMENTS, BASED ON AN OCCUPANT LOAD FACTOR OF ONE PERSON FOR EVERY


=
square feet -offices
30 square feet - retail shops (ground floor). -
50 square feet-retail shops (upper floors), library, locker areas, etc on

- 20 square feet -college classrooms



## FIRE PROTECTION EQUIPMENT

45. One 2A10BC fire extinguisher shall be provided for every 8.000 sqdtit with $75^{\prime \%}$ maximum travel distance $\qquad$

46. Extinguishers shall be easily accessible, wall-mounted ad height not less than 4 or more than 5 from floor:
47. Extinguishers shall be serviced annually, after, use, and when gauge indicates recharge

48. All sprinkler valves shall be locked in open position, accessible; and unobstructed.
49. Fire Department connection caps in place and work freely
50. Exterior exposed portions of systems that are not brass or galvanized shall be painted with rust preventative paint
51. Storage shall be maintained at least $18^{\prime \prime}$ below sprinkler heads


* 61. Maintain systems as follows:

Address $\qquad$
 Business Name SEAKS AOTOMOTIVE FP. 13 $\qquad$
Issued By: $\qquad$
 At the time of the inspection those items marked in columns 1,2 or 3 were found to be in violation and shall be corrected immediately. Re-inspections occur in approximate two week intervals. Items marked under NA or OK were either not applicable or were in compliance at the time of the inspection.
B-1: Gasoline service stations or garages with no repair work using open flame; welding, or flammable liquids, repair garages which are owner operated or where not more than one employee is repairing one vehicle at any one time.
$\mathrm{H}-2$ : Locations involving the storage, handling, use or sale of flammable or combustible liquids exceeding the amounts in Table 9-A of the Uniform Building Code. $\mathrm{H}-4$ : Garages with automotive repair using open flame, welding, or flammable liquids not classified as $\mathrm{B}-1$.

## general requirements and special hazards

1. Install approved address identification.
2. Individual work station trash cans shall be metal or approved equal.
3. Trash cans used for collection shall be metal or approved equal with a lid.
4. Trash cans used for oily rags shall be metal with a self closing lid.
5. Remove accumulation of waste material on exterior of building.
6. Maintain 30 " clearance of combustibles to heat producing appliances.
7. A 1 hr . occupancy separation wall is required between a $\mathrm{B}-1 ; \mathrm{H}-2 ; \mathrm{H} \div 4$ and any other group.
8. Maintain all area or occupancy separation walls and draft stops. if $\{7$
9. Maintain in operable condition and remove all obstructions toffire/smoke doors and fire dampers.
10. Keys needed for access to all portions of building are current and in Knox-Box.
11. No smoking is premitted in work area and "No Smoking" signs are required.

## exiting heoulrements. based on an occupant load factor of one person for every:

 100 square feat.17. Two exits required if occupant load exceeds 50 (except offices).
18. Two exits required if over 200 square feet (H occupancies).
19. Two exits required from second floor if occupant load exceeds to
20. Two exits required from all basements and above the second floor
21. Two exits required from Mezzanines larger than 2000 square feet or 60 feet in any direction. -
22. When two exits are required they must be separated by $1 / 2$ of the diagonal distance of the room. .
23. Maximum distanct to an exit is $75^{\prime}(\mathrm{H}-2$ only).
24. Maximum distance to an exit is $150^{\prime}$ (unsprinklered buildings) or $200^{\prime}$ (sprinklered buildings).
25. Dead end corridors may not exceed $20^{\prime}$.
26. Exit doors shall swing in the direction of exit travel in all H occupancies.
27. If occupant load is over 50 , doors must swing out; if over 100 they must only swing out

28. ' Exit doors and exit paths shall not be obstructed
29. No storage beneath enclosed stairs unless protected by 1 hr . construction.
30. If occupant load exceeds 100 , all exits except the main entrance shall have exit -signs.
31. If occupant load exceeds 100, all exits signs shall be eliminated on a separate circuit (not $\mathrm{B}-1$ )

All exit paths shall be lighted at all times that the building is occupied If separate circuits are required for the exit signs


## FIRE PROTECTION EQUIPMENT

46. B-1's shall have minimum 2A 20BC within 75 ft . from all portions of the building 'including pumps,
47. $H$-2's and $H-4$ 's shall have minimum $40 B C$ within 30 ft or 80 BC , within' 50 ft: and must have at least a 2 A rating
48. Extinguishers shall be easily accessible, wall mounted at a height not less than $4^{\prime \prime}$ or more than $5^{j}$ from floor.
551) Extinguishers shall be serviced annually, after use, and when gauge indicates recharge. 1.4 ny : 60 ve e
52. All spraying operations shall be in an approved spray booth with an approved extinguishing system.
53.- H-2 occupancies larger than 1500 sq . ft. shall have sprinkler system installed.


53. Fire Department connection caps in place and work freely
54. Exterior exposed portions of systems that are not brass or galvanized shall be painted with rust preventative paint:
55. Storage shall be maintained at least 18"' below sprinkler heads.
56. Storage shall be maintained at least 24 " below ceiling in'unsprinklered buildings.
57. Maintain systems as follows:




## 




Semi-annuálly

07. Cords shall not be affixed to or extended through walls, célingit floors or under doors, nor subject to physical damage .o fie

68 Maintain 30" clearance fronting and around electrical control paries.
69. Electrical main and sub-panels shall be labeled as to area solved and not taped "on" position
70. Electrical appliances, fixtures and equipment shall be listed andiapproved for the type of a wise:
71. Electrical motors shall be maintained free from accumulated oil dirt and other debris:

## FLAMMABLE LIQUIDS

74. Discontinue use of liquids with flash point bélow $110^{\circ} \mathrm{F}$ for cleaning purposes
75. No storage of class 1A liquids in basements
76. Dispensing class 1 and II liquids by suction pump only and properly grounded:
77. Dispenser nozzles shall not extend within 5 ', of any building: g opening.
78. Pumps shall be located not less than 10 from any building, and on islands or protected by posts.
79. Emergency shut-off switch required on exterior of building within $75^{\prime}$ but not closer than $15^{\prime}$ from pumps. Switches shall be designated "Emergency Pump Shut-Off"
80. Devices capable of igniting flammable vapors, such as êlectric motors or heating appliances; still be installed 18 " from floor.
81. Where flammable vapors are present, devices such as welders, torches or grinders are not permitted, 1
82. Parts basins shall not use liquids with flash points below $110^{\circ}$ F and shall have an automatic closing ld when exposed to fire

## PERMITS ARE REQUIRED OR COMPLIANCE WITH POSTED PERMIT

(85) To operate a repair garage:-
86. To do spray finishing using flammable liquids.

TR To store in excess of 5 gallons of flammable liquids inside or 10 gallons outside. $\operatorname{Mriz}$
To store in excess of 25 gallons of combustible liquids inside or 60 gallons outside.
89. For welding or cutting torch operations
90. For above ground flammable liquids storage tanks.
93. To have an LPG tank. in excess of 120 water gallons.
94. To store hazardous materials in excess of 100 lbs . solid, 55 gallons liquid or 1500 cu . ft

ZND FLOOR
TRaset eltate Sprinkru Dobes neene sitans.

Holes in ceilinge CARPGAREA-FURNISHINGS AR AOAD Feyte Glassey
Finnituric

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& \text { LABCL MANUAL value. } \\
& \text { Not Nongt pods in 'ranea }
\end{aligned}
$$

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## PERMIT

This Permit has been issued to the following, pursuant to the conditions stipulated herein and in conformance with Uniform Fire Code, state and local ordinances.

This Permit expires when change of ownership, business name, or conditions outlined herein occur. This Permit shall be posted, visible and made available upon request by the Fire Prevention Inspector. This Permit may be revoked at any time for due cause in violation of Uniform Fire Code.

Address of Project 900 Northgate Mall
Project/Business Name $\qquad$


Contractors Name $\qquad$
Address $\qquad$



 Application
Complete $\qquad$ Incomplete* $\qquad$ Date $\qquad$
*


tach block represents $\frac{i}{4}$ hour -- Codes: I-Plan Review, 2 - Field inspection, 3 - Cancellation, 4 - Uther

## UNIFORM FIRE CODE PERMITS




A time keeping form will be kept to track time spent on your project. You will be charged for the actual time spent on your project to the nearest $1 / 4$ hours, with a minimum one hour charge. The fee will be collected at the completion of your project, and an invoice will be mailed to you. Your project Permit will not receive final fire Department approval until all fees are paid. The fees are due and payable upon receipt of the invoice and become overdue 30 days later, at which time a $1 / 2$ hour late fee and $1 / 2 \%$ per month interest will be charged. In addition to not issuing final approval, the Fire Department will pursue all other legal remedies for unpaid accounts. On projects that accumulate more than 3 hours in services, you will be invoiced during each month that the balance exceeds 3 hours.
I have read the above statement regarding fees for this project, and $I$ understand how the fees will be calculated, agree to pay such fees and understand that they are due prior to final acceptance of my project. Further, under penalty of perjury, I declare that I am duly authorized to encumber expenses on behalf of the firm listed above.


## UPC PKRMTIS:

_ Aircraft rafueling vehiclasAlrcraft repair hanger Automobile wrecking yard
___ Bonfires or rubblsh fires
$\qquad$ Bowling pin or alley refinishing
$\qquad$ Burning in public place

- Candlea and open flamos in ansembly areab
$\qquad$ Collulose nitrate atorage Combuatible fiber atorage
$\qquad$ Comprosed gasea, flammable
__Cryogena
- Dry cleaning planta
__ Dust-producing operationa
- Excavationa near flammabla or combuatible liquid pipolines
_ Exploaives or blanting agents
- Plammable or combuatible 1iquid pipeline
_ Plammable or combuetible liquida and tanke
_ Pruit ripening
__ Pumigation or thermal inoocticidal fogging
__Garagea
- Hazardous materiala
- Haz Mat oite charactarization/
__ Haz Mat sita remediation report
_ Highly toxic pesticides
__ High-piled combuatible atock
_ Junk yarda
__ Liquafied petroleum gazee
_ Lumber yards
_._ Magresium working
X Mnil, covared Vehic/e
_ Monitoring wall inatallation
__ Monitoring well deatruction
$\qquad$ Nitrate film Oil and natural gas welle Open burning
$\qquad$ Open-flame devices in marinas Organic coatings Ovens, induatrial baking or drying
_- Parade floataPlaces of assemblyRadioactive materials
$\qquad$ Refrigeration equipmant
___ Spraying or dipping
Tank vahicle日
__ Tente and air-supported structures
__ Tire recapping
_ Waste material handing plant
_-Wolding and cutting operatione


## PLAN RKVIKMS:

$\qquad$ Automatic Sprinkler Syatema, of heada $\qquad$
_ Automatic Fixed Fire Extinguishing Syatemo (specify)
__ Dry Chemical, of Nozzles $\qquad$
_ Halon, of Nozzies $\qquad$

- Other, explain
$\qquad$ Fire Alarm System


## - ${ }^{\text {A }}$

 Automatic Pire Detection System, of detectors- Above Ground Tank Inatallation, of tanka $\qquad$ , tank capacity
__. Above Ground Tank Removal, of tanks $\qquad$ , tank capacity $\qquad$
__ Underground Tank Inatallation, of tankg $\qquad$ tank capacity
__ Underground Tank Removal, of tanke $\qquad$ , tank capacity $\qquad$
__ Underground Tank Abandonment in Place, of tanke $\qquad$ , tank capacity
__ Underground Tank/Line Porformance Teat
$\qquad$ Underground Tank Solla/Water Analytical Raport
_Other, oxplain

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PERMTT
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Address of Project $\qquad$ 9000 Northgate Mall

Project/Business Name $\qquad$ Soars Roebuck \& Co

Type of Permit URG,Auto Display in Mall. Permit No. FPB 89-156 Contractors Name $\qquad$
Address $\qquad$
City, State, Zip $\qquad$ Phone No. $\qquad$

Issued by: $\qquad$ Date 8.7 .84
 Conditions:
Application
Complete $\qquad$ Incomplete* $\qquad$ Date $\qquad$
*



Each block represents if hour -- Codes: i - Plan Review, 2 - Field inspection, 3 - Cancellation, 4 - under

## UNIFORM FIRE CODE PERMITS




A time keeping form will be kept to track time spent on your project. You will be charged for the actual time spent on your project to the nearest $\hbar$ hour, with a minimum one hour charge. The fee will be collected at the completion of your project, and an invoice will be mailed to you. Your project Permit will not receive final Fire Department approval until all fees are paid. The fees are due and payable upon receipt of the invoice and become overdue 30 days later. In addition to not issuing final approval, the Fire Department will pursue all other legal, remedies for unpaid accounts.

I have read the above statement regarding fees for this project, and 1 understand how the fees will be calculated, agree to pay such fees and understand that they are due prior to final acceptance of my project. Further, under penalty of perjury, I declare that 1 am duly authorized to encumber expenses on behalf of the firm listed above.

$\qquad$ Aircraft refueling vehicles
$\qquad$ Aircraft repair hanger
$\qquad$ Automobile wrecking yard
-
Bonfires or rubbish fires
Bowling pin or alley refinishing
$\qquad$ Burning in public place
$\qquad$ Candles and open flames in assembly areas
$\qquad$ Cellulose nitrate storage
__Combustible fiber storage
__ Compressed gases, flammable
___ Cryogens
___ Dry cleaning plants
__ Dust-producing operations

- Excavations near flammable or combustible
- liquid pipelines
_ Explosives or blasting agents
$\qquad$ Fireworks
$\qquad$ Flammable or combustible :liquid pipeline operation and excavation
X flammable or combustible liquids and tanks Dispart rut ripening sigil Bur $\rightarrow$ ing

_._Fumigation or thermal insecticidal fogging
__ Garages
$\qquad$ Hazardous materials
__.. Highly toxic pesticides
_ High-piled combustible stock
__ Junk yards
__ Liquefied petroleum gases
__ Lumber yards
___ Magnesium working
__Mall, covered
___ Nitrate film

___ oil and natural gas wells
- Open burning
__ Open-flame devices in marinas
—_ organic coatings after Close 8 _._ ovens, industrial baking or drying $7 / 27-2$ _... Parade flats
___ Places of assembly
___ Radioactive materials
__ Retrigeration equipment
__ Spraying or dipping
__ Tank vehicles
___ Tents and dir-supparted structures
___Tire recapping
__ Waste material handing plant
__ Welding and cutting operations


## Plan Reviews:

___ Automatic Sprinkler Systems, of heads $\qquad$
___ Automatic Fixed Fire Extinguishing systems (specify)
___ Dry Chemical. of Nozzles $\qquad$
__ Halon, : of Nozzles $\qquad$

- other, explain
$\qquad$ Fire Alai System
_ Automatic Fire Detection System, " of detectors $\qquad$
___ Above Ground Tank Installation, of tanks $\qquad$ , tank capacity $\qquad$
___ Above Ground Tank Removal. of tanks $\qquad$ , tank capacity $\qquad$
__ Underground Tank installation, " of tanks $\qquad$ - tank capacity $\qquad$
___ Underground Tank Removal. "of tanks $\qquad$ - tank capacity
__ Underground Tank Abandonment in Place, I of tanks $\qquad$ . tank capacity $\qquad$
__other, explain


## Address

 $\frac{9000 \text { Noent } 6 \text { art }}{\text { T.Mieglul }}$HALL Business Name Issued By: $\ldots 1$ st insp. $\frac{3 / 16 / 89}{17}$ and Insp. $\qquad$ ard Insp. $\qquad$ Refer to FPB

At the time of the inspection those items marked in columns 1,2 or 3 were found to be in violation and shall be corrected immediately. Re-inspections occur in approximate two week intervals. Items marked under NA or OK were either not applicable or were in compliance at the time of the inspection.
8-2: General Businesses - office, wholesale and retail stores, factories, workshops using materials not highly flammable or combustible, drinking/dining establishments, school rooms for those beyond the 12th grade, for less than 50 people, woodworking and cabinet shops which are owner operated or where not more than one employee is. operating one piece of equipment or appliance.

## general heoulrements and special hazards

1. Install approved address identification.
2. Individual work station trash cans shall be metal or approved equal.
3. Trash cans used for collection shall be metal or approved equal with a lid
4. Remove accumulation of waste material on exterior of building.
5. Maintain $30^{\prime \prime}$ clearance of combustibles to heat producing appliances
6. Maintain all area or occupancy separation walls and draft stops. -
7. Maintain in operable condition and remove all obstructions to fire/smoke doors and fire dampers
8. Keys needed for access to all portions of building are current and in Knox-Box.

## exiting requirements, based on an occupant load factor of one person for every:

## 100 square feet -offices

30 square feet -retail shops (ground tor)
50 square feet -retail shops (upper floors), library, locker areas, etc.
20 square feet -college classrooms

- 15 square feet -conference rooms

17. Two exits required if occupant load exceeds 50 (except offices).
18. Two exits required if occupant load exceeds 30 (offices).
19. Two exits required from second floor if occupant load exceeds 10
20. Two exits required from all basements and above the second floor
21. Two exits required from Mezzanines larger than 2000 square feet or 60 feet in any direction:
22. When two exits are required they must be separated by $1 / 2$ of the diagonal distance of the room.
23. Three exits required if occupant load exceeds 500 , four if over 1000
24. Maximum distance to an exit is $150^{\prime}$ (unsprinklered buildings) or $200^{\prime}$ (sprinklered buildings) ')
25. Dead end corridors may not exceed $20^{\prime}$.
26. If occupant load is over 50 , doors must swing out; if over 100 they must only swing out.
27. Exit doors shall not have dead bolts or other similar devices.
28. Exit doors and exit paths. shall not be obstructed.
29. No storage beneath enclosed stairs unless protected by 1 hr . construction.
30. Corridors serving 30 or more shall be 1 hr . rated with 20 minute self closing doors
31. If occupant load exceeds 100, all exits except the main entrance shall have exit signs.
32. If occupant load exceeds 300 the exit signs shall be illuminated on a separate circuit:
33. All exit paths shall be lighted at all time that the building is occupied. If separate circuits are required for the exit signs the exit lighting must also be on separate circuits.
34. Maximum occupant load sign is required if less than 50 peoplé, (Restaurants; Lounges)
35. Interior stairways to be rated 1 hr . for 3 or 4 stories, 2 hr , for higher buildings:


## FIRE PROTECTION EQUIPMENT

45. One $2 A 10 B C$ fire extinguisher shall be provided for every $6,000 \mathrm{sq}$. ft . with 75 maximum travel distance
46. One additional $40 B C$ extinguisher shall be provided in all kitchens.
47. Extinguishers shall be easily accessible, wall mounted at a height not less than 4, or more than 5 from floor.
48. Extinguishers shall be serviced annually, after use, and when gauge indicates recharge. a
49. Fire protection or detection systems shall be extended, altered or repaired as necessary to maintain protection cite ex ir 56. All sprinkler valves shall be locked in open position, accessible and unobstructed.
50. Fire Department connection caps in place and work freely.
51. Exterior exposed portions of systems that are not brass or galvanized shall be painted with rust preventative paint
52. Storage shall be maintained at least $18^{\prime \prime}$ below sprinkler heads:-
53. Storage shall be maintained at least $24^{" \prime}$ below ceiling in unsprinklered buildings:
54. Maintain systems as follows:

|  | System Type |
| :--- | :--- |
| A. | Standpipes |
| B. | Sprinkler |
| C. | Pre-engineered/Fixed |

inspected/Sorviced
Semi-Annuicad Sis Tested
A. Standpipes
C. Pre-engineered/Fixed

Quarterly $\quad$, $\quad$ Every 5 years
Semi-annually \& after activation Semi-annually
62. All commercial cooking shall have a dry chemical system protecting afllooking surfaces.
63. Hood and duct ventilation systems shall be maintained free of grease.

## ELECTRICAL REQUIREMENTS

66. Discontinue use of extension cords and cube adapters in tie of permanent wiring.
67. Cords shall not be affixed to or extended through walls, ceilings, floors or under doors, nor subject to physical damage.
68. Maintain $30^{\prime \prime}$ clearance fronting and around electrical control panels.
69. Electrical main and sub-panels shall be labeled as to area served and not taped "ono" position:




FLAMmABLE LIOUIDS
74. Discontinue use of liquids with flash point below $110^{\circ} \mathrm{F}$ for cleaning purposes.
75. No storage of class 1A liquids in basements.


PERMITS ARE REQUIRED OR COMPLIANCE WITH POSTED PERMIT.
88. To store in excess of 5 gallons of flammable liquids inside or 10 gallons outside.
89. For welding or cutting torch operations.
90. For above ground flammable liquids storage tanks.
91. Lumber yards in excess of 100,000 board feet of lumber.
92. To operate refrigeration equipment.
93. To hàve an LPG tank in excess of 120 water gallons.
94. To store hazardous materials in excess of 100 lbs . solid, 55 gallons liquid or 200 cu . ft . gas.


## SAN RAFAEL FIRE DEPARTMENT

## P ERMIT

This Permit has been issued to the following, pursuant to the conditions stipulated herein and in conformance with Uniform Fire Code, state and local ordinances.

This Permit expires when change of ownership, business name, or conditions outlined herein occur. This Permit shall be posted, visible and made available upon request by the Fire prevention Inspector. This Permit may be revoked at any time for due cause in violation of Uniform Fire Code.

Address of Project 9000 Northgate Mall
Project/Business Name $\qquad$
Type of Permit Tank Installation Permit No. FPB 89-048


Each block represents $\frac{1}{4}$ hour -- Codes: 1 - Plan Review, 2 - Field Inspection, 3 - Cancellation, 4 - Other

PLANS REVIEWED
TANKS INSPECTED TANK CAPACITY PRESSURE TESTED PIPING INSPECTED PIPING TESTED PERMIT APPLICATION MARIN COUNTY ENVIRUNMENTAL HEALTH OTHER INSPECTIONS:
By : $\qquad$ Date: $\qquad$
COMMENTS:

Address of Project Northgate shepping mall

|  |  |
| :---: | :---: |
| Contractor's Name Petrolane Gas |  |
| Address 2440 whipple $R$ d. |  |
| City, State, Zip Hayward, Salict 94s iy |  |
| Phone No. 415-487-1733 |  |
| State Contractors License \# 235070 | Expiration 2-28-90 |
| San Rafael Business License \# | Expiration |

A time keeping form will be kept to track time spent on your project. You will be charged for the actual time spent on your project to the nearest $\hbar$ hour, with a minimum one hour charge. The fee will be collected at the completion of your project, and an invoice will be mailed to you. Your project Permit will not receive final Fire Department approval until all fees are paid. The fees are due and payable upon receipt of the invoice and become overdue 30 days later. In addition to not issuing final approval, the Fire Department will pursue all other legal remedies for unpaid accounts.

I have read the above statement regarding fees for this project, and I understand how the fees will be calculated, agree to pay such fees and understand that they are due prior to final acceptance of my project. Further, under penalty of perjury, I declare that 1 am duly authorized to encumber expenses on behalf of the firm listed above.

ufC Pernits:
__ Aircraft refueling vehicles
__ Aircraft repair hanger
__ Autamobite wrecking yard
___ Bonfires or rubbish fires
__ Buwling pin or alley refinishing
__ Burning in public place
__ Canales and open flames in assembly areas
$\ldots$ Cellulase nitrate storage
Q Combustible fiber storage
__ Compressed gases, flamnable
__ Cryogens
___ Dry cleaning plants
_ Dust-proḍucing operations

- Excavations near flamable or combustible
liquid pipelines
__ Explosives or blasting agents
___ Fireworks
__. Flammable or combustible liquid pipeline operation and excavation
$\qquad$ Flarmable or combustible liquids and tanks
$\qquad$ Frult ripening
$\qquad$ Fumigation or thermal insecticidal fogging ___ Garages
_ Hazardous materials
___ Highly toxic pesticides
_ High-piled combustible stock
_ Junik yards
__. Liquefied petroleum gases
__ Lumber yards
__ Magnes ium working
__Mall. covered
_ Nitrate film
___ 011 and natural gas wells __ Open burning
___ Open-flame devices in marinas Organic coatings
..... Ovens, industrial baking or orying
__ Parade floats
_ Places of assembty
__ Radioactive materials
__ ketrigeration requipment
__. Spraying or dipping
___ Tank vehicles
__ Tents ond alr-supported structures
__Tire recapping
_... Waste materíal nandling plant
__ Welding and cutting operations

Plan Reviews:
___ Automatic Sprinkler Systems, of heads $\qquad$
_ Automatic Fixed fire Extinguishing Systems (specify)
___ Ory Chemical. of Nozzles $\qquad$
_ Halon, of Nozzles $\qquad$
__ Other, explain
$\qquad$ fire Alam System
.. Automatic fire Detection System, \# of detectors
$\checkmark$ Above Ground Tank Installation, of tanks
__ Above Ground Tank Removal, of tanks $\qquad$ , tank capacity
__ Underground Tank Installation, of tanks $\qquad$ - tank capacity $\qquad$
..... Underground Tank Removal. Iof Lanks $\qquad$ , tank capacity $\qquad$
__ Underground Tank Abandonment in Place, of tanks $\qquad$ , tank capacity
_O Other, explain


The SEARS SERVICE CENTER is.moving to the SEARS GARDEN CENTER BULEING at NORTHGATE MALL. Any merchandise to be picked up after MARCH ist will be ayailable ot the NORTHGATE MALL SEARS SERVICE CENTER:

Thank you.


This Permit has been issued to the following, pursuant to the conditions stipulated herein and in conformance with Uniform fire Code, state and local ordinances.

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Address of Project 9000 Northqate Mall
Project/Business Namesears Roebuck

 Conditions:


```
Application
Complete ___ Incomplete* __ Date
*
```




Each block represents $\frac{1}{4}$ hour -- Codes: 1 - Plan Review, 2 - Field Inspection, 3 - Cancellation, 4 - Other


## THIS IS NOT YOUR PERMIT


uFC Persits:
_ Aircraft refuelling vehicies
___ Aircraft repair hangor
___ Autunoblite wrecking yard
__._Bunfires or rubbish fires
___ Bowling pin or alley refinishing
___ Ourning in public place
__.Candles and open flames in assembly areas
___ Cellulose nitrate storage
_ Conbustible fiber sturage
___ Compressed gases, flanmabla
___Cryogens
__ Dry cleaning plants
_O_ Dust-producing operations
-. Excavations near flammable or combustible liquid plpelines
_._ Explosives or blasting agents
___freworks
.... Flamable or combustible liguid pipeline operation and excavation
....... $\upharpoonright$
_ Fruit ripening
..... Funityntion or thernal insecticidal toggitiy
__... Garages
..... Ilazaridous materitals
..... IIighly toxit pesthider
....... Hiyli-piled combustible stock'
....... Junik Yards
___ t. tupetied petroleun gases
_.... lumber yards
___ Magnestium walk hing
..... Masl, covered
Nitrute iflu
___ inl and natural gas wells
_.... Opeli buining
…... Oper-llate tevices int marians
-... Bryatic coutimg
_-.. Ovens. Industrial bakiaty or arying
_-.. Parnde tluats
__ Places of assembly
.-.... kuliuactive matherials
__._ketrigeration equipanent
_-... suray or anding
....... lath vehticles
...... lents and alresupported strictures
._... IIre mespinisy
.... Waste material hiondiany plant
_-.... Keldating and cuttiny uperations

## Plan Reviews:

__ Automatic Sprinkler Systems. of heads $\qquad$
__ Automatic fixed Fire Extlaguishing Systenr. (specify)
_O_ Ory Chemical. or Nozzles $\qquad$
Incorplete
__ Halon. I of Razzles $\qquad$ ...
__Uther. explain
X. Fire Alarm System
__ Automatic fire Detection System, of detectors $\qquad$
__ Above Ground Tallk linstallation, " of Lanks $\qquad$ - timk capatily $\qquad$
...Above Ground Tatik Renoval, of tanks $\qquad$ . tank capacity $\qquad$
-.... Underground tank Installathut, if taths $\qquad$ tarak capatily $\qquad$
_.__ Underground Jank Rellovil, of tanks $\qquad$ , Lanl t,platity
___ Undergrourd Tank Abundumente in Place, " of Lunks $\qquad$ - Lant: cultacily
___ Other, explain

# AUTOMATIC FIRE SPRINKLER SYSTEM INSPECTION REPORT 

## REPORT TO: Sears Dept. Store

ADDRESS: 9000 Northgate Mall $\%$
San Rafael, CA 94903

DATE: June 19, 1987:
BUILDING: Main Store
Automotive and Garden

| 1. | GENERAL | YES | N/A | NO |
| :---: | :---: | :---: | :---: | :---: |
| b. <br> c <br> d. <br> e. <br> $\mathrm{f}$. <br> g. <br> h. <br> i. <br> j. <br> k | Is the building occupied | X |  |  |
|  | Are all systems in service | X |  |  |
|  | Does building appear to be completely sprinklered | X |  |  |
|  | Is all stock or storage a minimum of $18^{\prime \prime}$ below sprinklers. |  |  | X |
|  | Are all sprinkler system main control valves open ......... | X |  |  |
|  | Are all other valves in proper operating position . | X |  |  |
|  | Do all valves have proper identification signs... | X |  |  |
|  | Are all valves in satisfactory condition ........ | X |  |  |
|  | Are control valves supervised ......... | X |  |  |
|  | Are control valves sealed, If Yes, Seal No. | X |  |  |
|  | Are fire department connections and fire hose threads in satisfactory condition, couplings free, caps in place, check valves and gaskets tight. | X |  |  |
|  | Was fire department connection flushed. ................. | X |  |  |
|  | Was flush free of debris........ |  |  |  |
|  | Are fire department connections visible and accessible. | X |  |  |
| 2. | WET SYSTEMS |  |  |  |
| b. | Have antifreeze systems been tested and left in satisfactory condition |  | X |  |
|  | Does alarm valve and retard chamber appear to be in satisfactory condition from visua | X |  |  |
|  | exterior inspection . .................................................................. | X |  |  |
|  | Does waterflow indicator appear to be in satisfactory condition from visual exterior inspection. |  |  |  |
| 3. | DRY SYSTEMS |  |  |  |
|  | Is dry pipe valve in service. |  | X |  |
| b. | Air Pressure. |  | X |  |
|  | Is air compressor operational. Manual ___ Automatic |  | X |  |
|  | Were low points drained during this inspection |  | X |  |
| d. | Are quick.opening devices operational ........ |  | X |  |
| f. | Have dry pipe valves been trip tested __ Seconds to operate |  | X |  |
| g. | Do dry pipe valves appear to be adequately protected from freezing. ......... |  | X |  |
|  |  |  | X |  |
| 4. | SPECIAL SYSTEMS (Describe) |  |  |  |
| a Were valves trip tested and results satisfactory. <br> b. Were aH heat responsive systems tested and results satisfactory <br> c. Were supervisory features tested and results satisfactory |  |  | X |  |
|  |  |  | X |  |
|  |  |  | $X$ |  |
|  |  |  |  |  |


| 5. | ALARMS | YES | N/A | NO |
| :---: | :---: | :---: | :---: | :---: |
|  | Water motor and gong test satisfactory ___ Seconds to operate . . |  |  | X |
| b. |  | X |  |  |
| c. | Were alarms tested through inspectors test valve ..b.............................................. | X |  |  |
| d. | Tamper switch alarm test satisfactory. | X |  |  |
| e. | Are any alarms connected to central stations | X |  |  |
|  | Are any alarms connected to central station |  |  |  |
| 6. | SPRINKLERS - PIPING $\quad \therefore \quad$. |  |  |  |
| a. | Do all sprinklers appear to be in satisfactory condition, not obstructed and free of corrosion or paint, and installed in proper position. | $\cdots$ |  |  |
| b. | Are sprinklers less than 50 years old..... . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | X |  |  |
| c. | Are extra sprinklers and wrenches readily available... | X |  |  |
| d. | Does hand hose appear to be in satisfactory condition | X |  |  |
| 7. | FIRE PUMPS . . . ${ }^{\text {- }}$ | , |  |  |
|  |  |  | X |  |
| a | Do fire pumps appear to be in satisfactory condition.................. |  | X |  |
| b. | Do gravity tanks or reservoirs appear to be in satisfactory condition |  | X |  |
| c. | Do pressure tanks appear to be in satisfactory condition ........... |  |  |  |


| Number |  |  | Make and Model Viking Model E 8" |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 8. Wet Systems: Number $\qquad$ <br> 9. Dry Systems: Number |  |  | Make and Model |  |  |  |  |  |  |
| Make and Model $\qquad$ Con |  |  |  |  |  |  |  |  |  |
|  |  |  | OP |  | SECU | RED |  |  |  |
| 11. CONTROL VALVES | NO. | TYPE | YES | NO | YES | NO | YES | NO | CONDITION |
| City Conn. Contral Valve | 1. | Gate. | X. |  | . X |  | . X |  | . Good. . |
| Tank Control Valves ..... |  |  |  |  |  |  |  |  |  |
| Pump Control Valves |  |  | ¢, |  |  |  |  |  |  |
| Sectional Control Valves | . 3. | Gate. | X'. |  | . X |  | . X |  | . . . . . Good |
| System Control Valves.. | .8. | Gate. | X.. |  | . X |  | . X |  | ......GOQd |

12. Water Flow Test Yes___ No__ (If no, why?)

TEST PIPE LOCATION $\quad$\begin{tabular}{c}
SIZE TEST <br>
PIPE

 

PRESSURE <br>
BEFORE

 

FLOW <br>
PRESSURE

 

PRESSURE <br>
AFTER

 

RESTORATION <br>
TIME
\end{tabular}

Water Pressure: City_125: P.S.I. $\quad \operatorname{Tank} \frac{N / A}{}$ P.S.I. Pump N/A_S.S.I. Gauge Accuracy Within $+1-1$ P.S.I. Of Certified Test Gauge.

Inspection Contract No.

## 13. EXPLANATION OF "NO" ANSWERS.

Water motor gong inrautomotive needs repair. Six heads under rull-up doors need to be relocated in automotive. In portraits Department, one (1) head may be needed under new ceiling. In storage area next to toys where towels are stored, storage should be lowered' $18^{\prime \prime}$ below sprinklers.
14. ADJUSTMENTS OR CORRECTIONS MADE.

All repairs were made of the above "no" answers.

## 15. DESIRABLE IMPROVEMENTS.

Vic couplings on $4^{\prime \prime}$ FDC are leaking and should be replaced in main store.

## 16. COMMENTS

Fire Department 485-3300
ADT 997-7800
System No. 1-82-22 Main store
Automotive 1-81-46. Customer PO R928190
17. Inspection label affixed to sprinkler system riser. 囚 Yes

June 22.
1987

The information provided by this report is based upon the inspection services of Viking fire Protection Company (VFPC) on the date and time set forth on this report. No inspection or recommendation regarding the design criteria for the fire sprinkler system has been made. No statement of fact, promise, representation, affirmation or other indication has been made with respect to the inspected fire protection system; or any part thereof, other than which appears in the report. No warranties either expressed or implied, shall attach to this report; it being understood that VFPC shall not be liable for the quality and performance of the fire protection system should it prove defective after the inspection.

## VIKING FIRE PROTECTION COMPANY

Contractor License No. C16-187293
State Fire Marshal License No.
Inspector : Date

FIELD INSPECTION CHECKLIST
SPRINKLER SYSTEMS



FLAMMABLE LIQUID TANK REMOVAL/ABANDON IN PLACE
tank pressure test - Company name nA


TANK STEAM CLEANED OR TRIPLE
RMNSDAIIH pRESSURE HOO,
CAEMCAL OR TSP
TANK FREED OF Vapors
METHOD USED
hydro carbon reading


DATE: $\quad 1 / 26 / 87$
$Y_{E s} \quad V{ }^{\text {No }}$ DATE: $-1 / 26 / 87$
$\mathrm{CO}^{2}$ $0 \%$ ? 02 READING ? ND $0^{2}$ meter
TANK REMOVAL CUNTRACTOR Batch Petrolium
ADDRESS 1400 old Conejo Road
TANK HAULER _H\&H Shipping Co.__ID OR EPA \# HWH \# 800849
ADDRESS/DESTINATION China Basin SF. I
WASTE HAULER sears ID OR EPA \# CAD 000313445
ADDRESS/DESTINATION
PERMIT APPLICATION YEs $X$ No DATE ISSUED $1 / 26 / 87$
bY Fonesteraig MARIN COUNTY E.H. PERMIT \# ok

SAN RAFAEL

SPECIAL PROCESSES


State License No. 396575 Type: A__ city Business Lice. No. : NA
Type of Permit
$\qquad$ Application of Flammable Finishes
$\qquad$ Fumigation and Thermal Insecticidal Fogging
$\qquad$ Compressed Gases
$\qquad$ Cryogenic Fluids
$\qquad$ Explosives and Blasting Agents
$\qquad$ Fireworks
$\qquad$ Flammable Liquids (Storage/Handling)
$\qquad$ Hazardous Chemicals
$\qquad$ High-Piled Combustible Stock
Liquefied Petroleum Gases
Other Undeinground Tank Removal
$\qquad$
Description of operations/Location of storage: Size + Number of
Tanks: 1 TANK 500 gallon.- Waste Motor:011
To comply w/ FiD, std NO, 310
FOR FIRE DEPARTMENT USE
Plans submitted:
Date: $\qquad$ Approved by: $\qquad$ Date: $\qquad$
Field Inspection:
By: Fcraig Date: $1 / 26187$ By: $\qquad$ Date: $\qquad$
Final approval by: ZoneotNChaig Date: 1126187
Permit fee: $\$ 30,00$ Date paid: $122 / 870$ Permit number: $\qquad$
Remarks: $\qquad$
FP-1 (Revised 2/80)

## CITY OF SAN RAFAEL

## fire prevention bureau

# Correction Notice 

## 9000

Job Located at Seers NG Mall Sen Rafael
This job site has been inspected and has been found to be in violation of the applicable laws and ordinances of the City of San Rafael or the State of California. You are hereby notified that final approval will not be given (unless conditionally signed for below) until all of the violations are corrected and said corrections have been witnessed and initialed by the Fire Department. When the corrections have been made, call 485-3308 for a re-inspec-tron:- This notice has been placed conspicuously near-the-Bütilding-Depantment-gign-eff-card-for-tre-job. and, pursuant to Section 3.104 of the Uniform Fire Code, it shall not be removed or altered except by the Fire Department.
$\checkmark$ (1) Mall antrances-remoue tables \& Brochure stammels. from aisle.
(2) South parking entrance remove table a xmas trees from exit pathway and stan way.
(3) maintam 5 ft clear aisle. width.
to all exits.
$\square$ clan notice
Date $12.12 .86 \quad$ By tevere Craig Inspector
Fire Department

Conditional Certificate of Occupancy
Approved By $\qquad$
cc: Fire Department Building Department

1400 FIFTH AVENUE. PO BOX 60 SAN AAFAFI CALIFORNIA 94915.0060

Fire Department
November 18, 1986

AM AB
| AWREINC! F NIl at AN
COUCH MEMARFRS
OOHOTHYY AHFINFA
RICHARD A GAVE

Kents Christmas Trees
9000 Northgate Mall
San Rafael, CA 94903

Subject: Fire Department Conditions and Requirements
a) Christmas Tree Lots
b) Flame Treating Trees
c) Tents and Awnings

This notice is to inform you that pursuant to Title 19, California Administrative Code and Uniform Fire Code, the following conditions and requirements apply:

## 1) All Christmas lots shall comply with Fire Department Standard No.'s 114 and ll4A (copies attached).

2) A Special Use Permit is required by the Fire Department to install or use any tent or awning in connection with Christmas Tree Lots. Permit applications may be obtained by contacting the Fire PrevenLion Bureau at (415)485-3308, Monday through Friday 8:30 to 5:00 PM.
3) An onsite inspection of the lot is required by this Department. A 24 hour advance notification call is required to schedule an inspection appointment (normal business hours).

Should you have any questions regarding this notice or the conditions outlined herein, please contact the Fire Prevention Bureau.

Sincerely,
ROBERT E. MARCUCCI
Fire Chief
Forest Craig
FORREST CRAIG
Fire Inspector
REM:FC:ss
Enclosures
cc: Building Department

COMPLETE PROMPTLY AND RETURN TO: CITY OF SAN RAFAEL, UGHETHSHRTSE OFFICE, CITY HALL
Rooms 1400 FIFTH AVENUE, P.0. BOX 60. SAN RAFAEL, CA 94915 (415) 456-1112
business name: Kent's Christmas Trees tel.No. Y15-757-4598

P.O.Box or Mail Address: $\qquad$
TYPE Of Business or profession: phejranqs Tree
mmmminmmmmmmnenmin
STATE LICENSE CONTRACTORS: TYpe OF WORK $\qquad$ State License No. $\qquad$ Vehicles Operating in San Rafael $\qquad$ State License Expires $\qquad$

retail - wholesale delivery and service businesses: No. of vehicles operating in San rafael. $\qquad$ $C$ VENDING MACHINE OPERATORS: PLEASE list TYPES of MaChines, number and coin value of each. and where located in San rafael.
type of machine how many coin value
LOCATED AT
$\qquad$
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I declare that the above information is true and correct.
legal Siggature $\qquad$ Title olehze date $\angle \angle-\angle 6$ Printed name $\qquad$ L. heat

Titers
$m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m F O R$ CITY USE ONLY
FEE:
License No: $\qquad$
Date Application Received: $\qquad$

Date Billed: $\qquad$
:
Second Notice: $\qquad$
REmarks: $\qquad$
$\qquad$
43 B23. 24



COMMENTS/RECOMMENDATIONS . $\square$ NONE/
(1) Plans to conform to Five Prevention Std No. 306 and sta No. 310 (2) Permits must be obtained from Marin Co. Environmental Health. (3) on site inspections required by fuè marshal.
$\qquad$
$\qquad$
$\qquad$

Form Ping. 9 - City of San Rafael Planning Department Comment Sheet

## CITY OF SAN RAFAEL

SAN RAFAEL, CALIFORNIA

## INTER-DEPARTMENTAL MEMORANDUM

## DATE:

PLANIIING DEPARTMENT
BUILDING DEPARTMENT
from: KEITH J. SCHOENTHAL, Fire Marshal
subject: Above Ground Flammable Liquid Tanks Existing Non-Conforming Tanks Plan Review

Attached is a plan submittal for:
SEARS
9000 NORTHGAIE MALL

This plan and project should be reviewed as an existing, non-conforming, above ground tank, not as a new or complete plan review.

I have included a copy of the Fire Prevention Standard No. 306, Sections II and IlI, which outlines Planning and Building Department plan submittal requirements as they were previously established.

Plan review fees will be dispursed accordingly upon receipt of your Department's respective account numbers. please return your comments/requirements, if any, by

SEPT, 4, 1986 $\qquad$ -

Should you have any questions regarding this project, please contact me at Ext. 3308.

By: Forrest Craig. Insp. KEPTH J . SCHOENTHAE
Fire Marshal

## cc: Property File

# CITYOFSANRAFAEL FIRE DEPARTMENT 

| FIPE PAEVENTIDN |
| :--- |
| STANDAAD ND. |
| AO |

AROVE FROUND FLAMMARLE I.IOIHIDS STORAGE TANKS

| Hith f Jchre..thid DEVELOPED BY - FIRE MARSHAL | PAGE | 4 OF 4 |
| :---: | :---: | :---: |
| Rotect $\angle 7$ Plancurn. APPROVED BY - FIRE CHIEF | PAST | EDITIONS |
| DATE NOVEMBER 72, 1985 |  |  |

III. Existing facilities that are undergoing enforcement for. non-compliance by the firf Department SHALL COMPLY WITH THE FOLLOWING:

## [A CEES.

A one time plan check and permit fee of $\$ 50.00$ made payable to the rire Department is REQuIred with the application. The fire Department will dishurse the money to the othea
Departments.
2. B. $A$ APPICATIONS

1.     - 
2. Fill out and sign the Planning Department general application form checking fhat you are applying for Design Review.
3. Fill out the fire Department application form. Return both forms to the fire DEPARTMENT FOR PROCESSING.
( $\because \mathrm{C}$ PLANS:
l. A site plan must be submitted to inceuding the following information:
A. Be clearly drawn to a minimum scale of $1^{\prime \prime}$ - 20' and include a north arrow,
B. Be accurately dimensioned.
C. Show all property lines,
D. Indicate topographic conditions (general slope of lot, cut banks and fill slopes if LOT IS NOT LEVEL).
E. Indicate the current and proposed locations of the tank.
F. Show existing structures, parking area(s) and vehicle circulation patterns,
G. Show relationship of edge of street pavement to property line,
h. Show sidewalk, curb and/or gutter - if existing.
4. A WRITTEN DESCRIPTION OF THE EXISTING AESTHETIC VALUES OF THE BUILDINGS (THE DIKE or vault will be required to meet the aesthetic concerns of the Planning DEPARTMENT).
J. An example site plan is shown as figure 1 .
5. An architectural/structural drawing of the tank dike or vault must be submitted in ACCORDANCE WITH SECTION I.C.




| PROPERTY |
| :--- | :--- | :--- |
| STREET ADDRESS |
| ASSESSOR' PARCEL NOS). |
| PRESENT USE OF PROPERTY |
| SIZE OF PROPERTY |

APPLICANT INFORMATION

$$
\text { PROPERTY OWNER } \quad \text { AUTHORIZED REPRESENTATIVE }
$$ NAME SEARS NAME DAR SAMDGRAS adDress 9000 Northgate Mall adDress: 9000 nippth gere Moll San Rapreil a4A03

TELEPHONE 4723670

## DETAILED DESCRIPTION OF :PROJECT Removing underground oi stopxir Dink. <br> Insmil Above ground oil solarage touts in containment dike - in contrnman dike.

## ACKNOWLEDGEMENTS

1. I acknowledge that all materials submitted in conjunction with this form shall be considered a part of this application.

I acknowledge that this application will not be considered filed and processing may not be intimated until the planning Department deterines that the submittal is complete with all necessary information and is. "accepted as complaze. The city wail notify the applicant of 11 application deficiencies no later than 30 days foll
I declare under. penalty of perjury that the information contatned in this application' is true and correct to the best of my knowledge
By signature on this form, the property owner authorizes the listed representatives) to appear before the planning Commission and to fin applications, plans and other information on the owner's behalf. It is the owner's" responsibility to inform the planning Department in writing of any changes.








# DEPARTMENT OF HEALTH AND HUMAN SERVICES 

## Environmental Health Services

COUNTY OF MARIN
Hall of Justice - Civic Center • San Rafael, CA 94903
(415) 499-6907

RECEIVED
AUG 071986
arr or fixilerarall

## PERMIT TO REMOVE UNDERGROUND STORAGE TANK



NO. OF TANKS TO BE REMOVED 3

TANK ID\#(S) 2929001,002, 003

PURSUANT TO THE CALIFORNIA ADMINISTRATIVE REGULATIONS, PERMISSION IS GRANTED TO REMOVE UNDERGROUND STORAGE TANKS at the above location with the following conditions:

1. all stored material to be removed.
2. IANK PURGED OF flammable vapors.
3. proper disposal of the tank.

SIGNED

date August 5, 1986
cc: K. Schoenthal, San Rafael Fire Dept. K.E. Curtis Construction Co.






 Assoneneat Surtace Mount MCUEL 2 Síu nivGA TAMPER SEALS - Cohsecutively numbered. Pris: 1
 One Decal included with each order.



50
100


# PUBLIC SAFETY KEY BOX SYSTEM AUTHORIZATION FORM 

## IMPORTANT - READ THIS FORM CAREFULLY!!

Complete this special form to obtain KNOX-BOX devices which conform to your particular PUBLIC SAFETY KEY BOX SYSTEM as indicated by the system code number below.

WARNING - This order WILL NOT be processed unless the following items are completed.

1. This form must have the proper authorized signature from the issuing "PUBLIC SAFETY AGENCY."
2. Full payment for amount of purchase must accompany this order.
3. C.O.D. and credit orders cannot be accepted.
4. Send this ORIGINAL signed form only - do NOT send a copy.

PLEASE NOTE: Each KNOX-BOX device is specially fabricated and keyed to meet the requirements of your agency's key box system; therefore, you must allow 2 to 3 weeks for delivery.

All units are shipped WITHOUT KEYS. Contact your issuing agency for instructions covering keys and lockup. These vaults can only be opened and closed with authorized issuing agency key. KEYS ARE NOT SUPPLIED to purchaser. Instructions for mounting are supplied with each unit.
REMEMBER - All shipments are factory direct and will be sent on a PREPAID basis only. Shipping and processing (and sales tax-for California Residents only) must be added to unit price.

CAREFULLY COMPLETE THE FOLLOWING Type or Print Clearly.

ORDER DATE Sept. 20,1988
ORDERED BY:
Company Sears Roebuck
Street 9000 Northgate Mall
City/State San Rafael Cal 94903
INDIVIDUAL PLACING ORDER: Zip 94903
Name__M._Snodgrass___ Phone (415)_472-3670
SHIP TO:
DO NOT USE P.O. BOX
Attention of: $\qquad$ Mark Snodgrass
Company Sears Roebuck
Street 9000 Northgate Mall
City/State $\qquad$ San_Rafael Cal

$$
\text { Zip } 94903
$$

Purchase Order No. If Required
INSTALLATION ADDRESSES: (THIS IS AN AGENCY REQUIREMENT) PURCHASERS MUST LIST BELOW ALL ACTUAL INSTALLATION ADDRESSES. THIS LIST IS NECESSARY FOR AGENCY SECURITY RECORDS AND IS CONFIDENTIAL.
BUILDING NAME STREET ADDRESS CITY

SEARS 9000Northgate Mall San Rafael


SENDER: Complete, ${ }^{\text {'tems }} 1, s, 3$ and 4.
Put your address in the "RETURN TO" space on the reverse slde. Fatiure to do this will prevent this card from being returned to you. The return recelpt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available, Consult pastmaster for fees and check box(es) for sarvice(s) requested.
$\checkmark$

1. Show to whom, date and address of dellvery.
2. $X X_{\text {Restricted }}$ Delivery.
3. Article Addressed to:

Mr. Fred Munser, Manager Sears Automotive Repalr 9000 Northgate Shopping Center San Rafael, CA 94903
4. Type of Service:

Article Number
$\square$ Registered XXCertified Express Mail
$\square$ Insured $\square$ COD 483502865

| Always obtain signature of addressee or agent and DATE.DEt나EARO. |
| :---: |
|  |
|  |
| 7. Date of Delluery $x$ an |
| 8. Addrexsee's Addrans(ONLY(frequested and fee paid) |



## 

UNITED STANES POSTAL SERVICE

| SENDER INSTRUCTIONS <br> Print your name, addreess, and ZIP Code in the space below. <br> - Complote items 1, 2, 3, and 4 on the reverse. <br> Attich to front of article if space permits, otherwise affix to back of tricle. <br> - Endorse erticle "Ret"F, vipt Requested" |
| :---: |


(City, State, and ZIP Code)

## P483 502 865 RECEIPT FOR CERTIFIED MAAIL

NO INSURANCE COVERAGE:PROVIDEDNOT FOR INTERNATIONAL MAIL
(See Reverse)


1400 FIFTH AVENUE. PO. BOX 60 SAN RAFAEL
CALIFORNIA 94915-0060 PHONE. 1415) 456.1112

## SAN RAFAEL FIRE DEPARTMENT <br> PRE-CITATION LETTER

MAYOR
LAWRENCE E MUT RYAN
COUTJCIL MEMBERS DOROTHY L GREENER GARY A FRUGOLI RICHARD P NAVE.
JERRY RUSSOM JERRY RUSSO

## November 21, 1985 DATE

CERTIFIED MAIL-RETURN
XIX RECEIPT REQUESTED

DELIVERED IN PERSON

Dear Mre_Fred_Munser_(
The San Rafael Fire Department conducted a fire safety inspection at the following:

Name $\qquad$
Address $\qquad$ 9000 Northgate Shopping Center

On Date_ October 27, 1985
At that time a notice was issued indicating the corrections required to provide compliance with the applicable codes, regulations and ordinances. Compliance is required by the Uniform Fire Code, Section 3.102.

Reinspections were made on $\qquad$ October 28, 1985 and again on November 18, 1985 $\qquad$ , in an attempt to gain compliance with the above mentioned fire code regulations. We were unsuccessful in obtaining compliance.

This letter is to inform you that a Fire Inspector for the San Rafael Fire Department will make a reinspection at the above mentioned establishment on_ December 6, 1985 __ to determine if the necessary corrections have been made. If the necessary corrections have not been completed by this date a citation will be issued, which will require an appearance by you in court.

This letter is written as a courtesy to you in order to avoid future litigation. 2 weeks extension on

BY FORREST CRAIG, INSPECTOR

1400 FIFTH AVENUE. PO BOX 60 . SAN RAFAEL CALIFORNIA 94915.0060

MAYOR
LAWHEPCE f MUSAYAF
COLIPCLI MEMBER AS
DOROTHY RETIE
GABY $A$ FAUGh:
AIC+HARD F tJAV寝
JERRY HUSS:'

# FIRE DEPARTMENT 

November 5, 1985

Mr. Fred Munser, Manager
Sears Automotive Repair
9000 Northgate Shopping Center
San Rafael, California 94903
Subject: Required Exits
Dear Mr. Muser,
On October 27, 1985, an inspection was conducted pursuant to a complaint received by this Department regarding locked exit doors.

At that time, the Captain of Engine Company 53 verbally requested the manager to unlock the required second exit.
(2) On October 28, 1985 a follow-up inspection was conducted by me and a walkthrough of the shop area was completed. The following violations were found to exist:

Repair the indicator on the south pair doors so that it states "opened" or "locked" with respect to the position of the deadbolt.
2. Remove the metal slide bolts from the two required exit 1118 doors in the shop area and post a sign over the doors stating "This door to remain unlocked during business hours." The sign shall have letters at least one inch high and in contrasting color to background.
$12.17-85 \mathrm{FC}$
QUIn lieu of removing the slide bolts from the doors they may be padlocked in the "open" position.

Remove the obstructions from the required second exit from the shop at the stairwell. The same requirements shall apply as in \#2 above. serving the exit door in \#3 above.
You are hereby notified at the violations which currently exist. Corrective action should be taken immediately.

```
Mr. Fred Munser. Manager
November 5, 1985
```

Page Two

A re-inspection will be conducted in approximately two weeks by this Department to determine if the necessary corrections have been made.

Failure to comply may result in derial of fire clearance which, in turn, may revoke your license to operate.

Should you have any questions regarding this notice, please contact me immedilately at 485-3309.

Sincerely,
ROBERT E. MARCUCCI
Fire Chief

## Forest craig

By FORREST CRAIG
Inspector
cc: Property File
Captain Hofstede

M A/22
Date: SEPT.3, 1985
$\qquad$
Address/Location: Northgate Mall, Terra Linda
Contractor (When applicable): N/A
Address: $\qquad$
State License No. $\qquad$ Type: $\qquad$ City Business Lice. No.: $\qquad$U. F. C. SectionApplication of Flammable Finishes45.102
Fumigation and Thermal Insecticidal Fogging47.102
Compressed Gases74.103
Cryogenic Fluids75.103
Explosives and Blasting Agents ..... 77.104
Fireworks ..... 78.102Flammable Liquids (Storage/Handling)79.103
Hazardous Chemicals ..... 80.102High-Piled Combustible Stock81.103
Liquefied Petroleum Gases ..... 82.103

- ..... Other
Description of operations/Location of storage: ABOVE GROWND
THUR INSTALLATION AND STORAGE. BUCK -OILHUST GNFORM To UFC 79 camel FPS \# 306
FOR FIRE DEPARTMENT USE
NOT APPROVED ..... 3.18 .86Date:
$\qquad$ Approved by: $\qquad$ Date: $\qquad$
Field Inspection:
By: $\qquad$ Date: $\qquad$ By: $\qquad$ Date: $\qquad$
Final approval by: $\qquad$ Date: $\qquad$
Permit fee: 30.00 Date paid:


July 1, 1985

Mr. Al Schetter
Department 700-8

## RE: BULK OIL TANKS

The fear of the N.F.P.A. was that large containers of combustible material such as this could add fuel to a fire. For this reason they had a law on the books that limited the container size.

It was determined that this type of ruling should be established by local codes. Therefore, the N.F.P.A. has deleted its specifications and requested that local Fire Martial establish the quantities that can be stored as well as the venting required.

Regards,
J. W. Alzner

Department 731
JWA/el81

> Above ground TAWin must cionforin to UFC Article 79 and Five Prev. Std. 306 . By. Jowett haig. Hopecta 3.18 .86

6." concrete $=3$ hours $\qquad$

Envcumuled heacta
660 gellen
consilinestan
(1) Enclonere shace be s... sapa and biguid thigit
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(7)

Dishewsina

LEVTING

FIRE PROTECTION

No. iles

## RECEIVED <br> NOV 151972 <br> city FIRE DEPT: SAN RAFAEL

## CITY OF SAN RAFAEL

## INTER - DEPARTMENTAL MEMO

OATE: September 11, 1972

TO: ALL PERSONNEL
subject: Sears Buildings
9000, 9100,9200 Northgate Fashion Mall

As of this date the sprinkler systems to the above captioned buildings are in service.

The risers and $O S \& Y$ valves for the Main Building and the Garden Shop are located in the basement of the Main Building about midpoint on the south wall.

The F.D.C. for the above systems is outside the south wall.
The riser and F.D.C. for the Automotive Center are located on the north wall towards the west end. This is an ingependent system.

An A. D. T. locator panel is located at the east entrance on the north wall of the main building, but it is not in service at this time.

$K M: j m$

SEARS SAN RAFAEL 1528


This mamal is set up as a basic guide in the evient of flire, building evacuation or other disasters. The above chart delegates the lines of authority and responsibilities. Teammork is the key to combating any type of disaster at any time. Remember to work as quickly and as safely as possible. In this way you will halp to minimize our losses and possibly elsmanate injuries to employes and customers.

W. C. Dunlap<br>Security Manager

COMMANDER：
The commender will maintain complete authority over the operation and deternine if and when the store should be evacuated．

## ASSISTANT COMMANDERR：

The Asgistent Commender shall have the same daties in the event that the Comander is absento He shall detemine what store staff will ramain in the store in case of evacue ation to guard the stora against looters．The Asst．Commander shall appoint one or tro male members of the flire brigade to stand by the cashiers offlee until a member of the Police deppartment arrives or a member of the store staff can take the poat．

## CAPTATNS：

The captains shixll respond to every fire or disaster callo Their first chties should be to saal off the area from customers as well as employes．They should allow only members of the fire brigade to enter the danger area．The captaing shall see that all blowers are turned off and be ready to shut off the risers in the area．They shonld know the locations of disaster equipment in the store and be ready to supply necessary equipment to the flre fighterg．

In the event that the fire cannot be contadned and it becomes a hazard to persomel flghting the fire the captains shall determine the safest exto

The captains shall also see that the registers in the area are guarded abainst foul play，and，if necessary，remove the cash and detail to be placed in the main safe。 Upon notice to evacuate the captains shall see that the registers are cleared and be ready to lock and secure the store。

## FIRE MARSHALL：

The Flre Marshall or his assistant shall respond to every fire or disaster call．Upon his arrival he shall determine what type of equipment should be used in combating the problem．He will direct the flire fighters and guards and help contain the flre wher ever possible．The Fire Marshall shall also help in the evacuation of the store． In the event that the store is evacuated，he will see that the store is locked and secured．

The Fire Marshall or his essistent shall make daily inspections of the store eliminating fire hazards wherever possible．He shall make sure all disaster and fire fighting equipo ment are in proper foriking order．The Flre Marshall shall see that enough flashlights are placed around the store in case they are needed in an ensergency．

FIRST AID DIRECTORS：
The Persomel Manager or asgiatant will stand by in the FIRST AID ROOM in the event minor flirgt aid is needed by employes or customers．If it becomes nocessary the flret aid director may aeek help from the cuatomer aervice department to assiat in flrst add treatment。

In the event the main store is evacuated the first aid director shall set up in the service station flrgt level menageris officep

The primary function of the evacuation directors is to see that employes and customers leave the store quickly and safely. They will open wide all outer doors and see that all stairways are kept clear and the people moving. They will aid elderiy people, calm hysterical people, and help handicapped people leave the store.

The secondary function is the protection of the building, its merchandise, and the store records. In the event the store records must be removed, and if they can be removed with no denger to the personnel removing them, they will be evacuated to safety. The files to be removed shall be marked "Flles Flrat" in red labeling on the outside of the flle cabinets. The locations of important fliles are the persomal dapt., unit control, customer service, and the credit dopartment. The audtt dept. will be responsible for their own files. The receiving dept. and the serpice atation have safes for their importent files.

In the event the store is evacuated no one is permitted to enter the store except the police department, flire department, or emergency firat aid teams.

FIRE FIGHTERS AND GUARDS:
The fire fighters and guards will respond to every fire and disaster call. They will: stand by and be ready to use whatever equipment is assigned to them. They shall follow the instructions given to them by the Fire Marshall or the store ataff.

Whenever possible, burning materials should be carried out of the store and put outo This will help cut down the losses from both smoke and water demage. The fire fighidrs and guards shall also ald in the evacuation of the store and be ready to guard exposed ragisters. This will help minimize the chances of looters taking advantage of the circumstances. Also, they should remove any valuable merchandise out of the danjer area, such as diamonds, furs, etc. This also applies to store records and docaments, as well as merchmaise.

In the event of a power failure the flre fighters and guards ahall assign themselva to the nearest registers.

Fire fighters and guards see zone duties.
P.B. $X_{0}$

The P.B.X. operator shall make the following announcement inmediately upon report of a disaster or fere.

> Mrs. O'Riley; please go to division (where needed) immediately Mrs. O'Riley, division (where needed) immediately Mrs. O'Riley, division (where needed) immediately

This announcoment will be repeated three times.
The operator will then call the local fire department and report the nature of the disaster and its location.

## STORE EVACUATION NOTICE

"Cood Morning" (afternoon, evening). The office of the civilian defense departiment has asked Sears to participate in a test alert for the evacuation of our store. We request that all customers please leave the building by the nearest exdit immediately. The atore will reapen as soon as possible. (Repeat) This is only a test. Thank you for your cooperation."

This announcement shall be repeated trice and once every 15 minutes thereafter until requested to stop by a member of the store staff. Also, in the case of a CIVIL DEFENSE alert the above announcement will be used only by substituting evacuation to the lower level by the closest stairway at once. The sales persomiel ahall direct the customers within their own departments to the nearest stairway.

Regardless of whether the flre is on the premises or in a building nearby, the fire department must be called inmediately.

CASHIERS:
The cashiers will remain in thedr office unless notiflied by a member of the store staff to eracuate. Upon that request to evacuate they shall see that the safe is locked and sacured.

Zone captains shall have added responsibilities as follows：
2．Sound alarm to all personnel in your zone and direct them to exits away from the fire．

2．After the araa has been cleared of personnel，all doors should be closed and all electrical panels in the danger area should be timed off．

3．Be aware of the locations of all fire fighting equipment in your zone。
4．Know the locations of all the riser valves in your zone。 If it become necessary for the valves to be turned off，the fire captains should show the fire department where and how to operate them．

5．If there is a sprinkler head ruming in your zone，the Fire Marshall should know the location at once．

6．Return all unused fire fighting equipment to its proper place。
7．If the fire fighting equipment is used，notify the Fire Marshall so that it may be replaced．

8．Be akare of fire hazards in your zone and help head off a disaster before it happens．
ZONE 1A：Captaini ．o Assistent Gustomer Service Manager
Divisions－P．B．Xog secumity，management offices，mail room andit，crodit，cashier，
customer service，training room．
ZONE 18：Captain－Div． 37 Mgr ．
Divisions $-1,21,24,96,25,36,37,49,57$.
ZONE 1C：Captain－Receiving Mgro
First level stock areay receiving，and the display and maintenance deptso
ZONE 2A：Captain－Dive 29 Mgr ．
Divisions－29，40，48，33，41， $45,51,14,25,3,87$, Tailor Shop．
ZONE 2B：Captain－Women ${ }^{\circ} \mathrm{s}$ Fashion Manager
Divisions－ $75,17,19,31,77,4,8,75,18,38,88$
ZONE 2C：Captain－Divo 9 Mgr ．
Divisions－Coffee House，6，9，20，30，Tobacco Shop and Key Shop
ZONE 2D：Captain－Divo 42 Mgr 。
Divisions－22，26，46，47，42，64，65，32，11， 34
ZONE 2F：Captain－Div。 28 Mgr 。
Divisions－28，190，95，stockroom and the employees lounge
ZONE 2G：Captain－Divo 71 Mgr 。
Catalog and Seasonal Sales building

|  |
| :---: |
|  |  |
|  |  |

QUALITY REMAINS
LONG AFTER
PRICE IS FORGOTTEN CHIEF OF FIRE DEPT
FIRE DEPT HQTS.
SAN RAFAEL,CALIFORNIA

RECEIVED
SEP 2 a 9972
FIRE DERT:
CITY. OF. SAN RAFAELL


[^6]






$12$







SAN RAFAEL FIRE DEPARTMENT
Bureau of Fire Prevention \& Investigation


Owner BUILDING
Owner BUILDING

Address
$\qquad$
$\qquad$

Owner/Manager $\qquad$

Occupied as $\qquad$ $\mathrm{F}-7$

## Remarks:



Inter Office Memo

To Roy J. Ontario, supt.

Sears, Jon Ratwe1- Automotive Center
By telephone authoriteg of Char. H. Day of Sears, at the request of Kan Mazama, Sans Ratal City fire Maristit you are being asked to relocate the $21 / 2^{4} \times 21 / 2^{\prime} \times 4$ " Flush F.D. connection shown on the saith side of the Auto Caster at col. Line " $F$ ", to the north side of the building, "pprow matoly 310" east of Col. Line "B." Please quote a deductive price for the 156'-0" of 4" pipe, that will be saved by this change, for my forwarding to my Los Angeles office for approval and future change order. Prose locate the hose connection 3-0" above the planting area fin. grade.
ca. Chaos. H. Day, Sears. Kan Mazza, S.R. Fire Marshal Tony valaitis, Parkin

appear that it could be located on the first floor immediately beneath the location presently shown for the main fire alarm control unit.

I trust that the above agrees with the notes you made regarding our conversation. I'll follow up on your request with the owner and see what can be provided.

Very truly yours,
SCHIRMER ENGINEERTNG CORPORATION

BWG: jc
$\begin{array}{ll}c c: & \text { R. W. Gould } \\ \text { M. Taff }\end{array}$
$\begin{array}{ll}c c: & \text { R. W. Gould } \\ \text { M. Taff }\end{array}$ .


## Fire Chief

John Montenero
10/05/2005
Northgate 1 Cleaners
Attn: Yong Mi
8985 Northgate Mall
San Rafael, CA 94901
Re: Business License Application - On Hold

## Dear Business License Applicant:

The San Rafael Fire Department is holding our approval of your business license application for the following reasons:

* With this letter is hazardous materials CUPA program permit application paperwork. Return to this department as soon as possible.

Once you have completed the above code requirements, we will approve your application and forward to the Business License Bureau. Should you have any further questions, I can be reached at 415-485-3309.

Sincerely,


Bradley R. Mark, Captain
Deputy Fire Marshal
City of San Rafael Fire Department

## cc: Karen Landesman - Business License Bureau

## 8985 N.G. Mall

Business Name
Address Issued By/Date inst Insp. AK 8/29/91_ and Insp $\qquad$ 3rd Insp. FM $\qquad$ Refer to FPB $\qquad$
At the time of the inspection those items marked in columns 1,2 or 3 were found to be in violation and shall be corrected immediately. Re-inspections occur in approximate two week intervals. Items marked under NA or OK were either not applicable or were in compliance at the time of the inspection.
B-2: General Businesses-office, wholesale and retail stores, factories, workshops using materials not highly flammable or combustible, drinking/dining establishments, school rooms for those beyond the 12 th grade, for less than 50 people, woodworking and cabinet shops which are owner operated or where not more than one employee is operating one piece of equipment or appliance.

* 1. Install approved address identification.
* 2. Individual work station trash cans shall be metal or approved equal.
* 3. Trash cans used for collection shall be metal of approved equal with a

5. Remove accumulation of waste material on exterior of building.
6. Maintain 30 " clearance of combustibles to heat producing appliances
7. Maintain all area or occupancy separation wails and draft stops.
8. Maintain in operable condition and remove all obstructions to fire/smoke doors and fire dampers:

* 14. Keys needed for access to átrportións of building are current and in Knox-Box.


## EXITING REQUIREMENTS, BASED ON AN OCCUPANT LOAD FACTOR OF ONE PERSON FOR EVERY:

100 square feet -offices
30 square feet-retail shops (ground floor)
50 square feet - retail shops (upper floors), library, locker areas, etc.
20 square feet-college classrooms
15 square feet -conference rooms
17. Two exits required if occupant load exceeds 50 (except offices).
18. Two exits required if occupant load exceeds 30 (offices)
21. Two exits required from second floor if occupant load exceeds 10
22. Two exits required from all basements and above the second floor

23. Two exits required from Mezzanines larger than 2000 square feet or 60 feet in any direction.
24. When two exits are required they must be separated by $1 / 2$ of the diagonal distance of the room.
25. Three exits required if occupant load exceeds 500 , four if over 1000
27. Maximum distance to an exit is $150^{\prime}$ (unsprinklered buildings) or 200 ( (sprinklefred buildings):
28. Dead end corridors may not exceed $20^{\prime}$.
30. If occupant load is over 50 , doors must swing out; if over 100 they must only swing out
31. Exit doors shall not have dead bolts or other similar devices.
34. Exit doors and exit paths shall not be obstructed.
35. No storage beneath enclosed stairs unless protected by 1 hr construction.
36. Corridors serving 30 or more shall be 1 hr e rated with 20 minute self, closing doors:
38. If occupant load exceeds 100, all exits except the main entrance shall have exit signs
40. If occupant load exceeds 300 the exit signs shall be illuminated on a separate circuit.
41. All exit paths shall be lighted at all time that the building is occupied If separate circuits are required for the exit signs the exit lighting must also be on separate circuits.
95. Maximum occupant load sign is required if less than 50 people. (Restaurants; Lounges)
44. Interior stairways to be rated 1 hr for 3 or 4 stories, 2 hr for higher buildings.

## FIRE PROTECTION EQUIPMENT

45. One $2 A 10 B C$ fire extinguisher shall be provided for every $6,000 \mathrm{sq}$ fo with 75 maximum travel distance
46. One additional 40BC extinguisher shall be provided in all kitchens:
47. Extinguishers shall be easily accessible, wall mounted at a height not less than 4 or more than 5 ' from floor:
48. Extinguishers shall be serviced annually, after use, a nd whengaligéńndicates recharge,
49. Fire protection or detection systems shall be extended altered or repaired as necessary to maintain protection.
50. All sprinkler valves shall be locked in open position, accessible and unobstructed.
51. Fire Department connection caps in place and work freely: ${ }^{\circ}$ 多
52. Exterior exposed portions of systems that are not brass ar galvanized shall be painted with rust preventative paint
53. Storage shall be maintained at least 18 " below sprinkler heads
54. Storage shall be maintained at least $24^{\prime \prime}$ below/ceiling in inssprinklered buildings.

55. Maintain systems as follows:

## System Type

A. Standpipes
A. Sprinkler
C. Pre-engineered/Fixed

62. All commercial cooking shall have a dry chemical system protecting all cooking surfaces an
63. Hood and duct ventilation systems shall be maintained free of grease


## ELECTRICAL REQUIREMENTS


66. Discontinue use of extension cords and cube adapters in lieu of permanent wiring.
67. Cords shall not be affixed to or extended throughwaills, ceilings, floors or under doors, nor subject top physical damage.
68. Maintain 30 " clearance fronting and around electrical control panels.
69. Electrical main and sub-panels shall be labeled as to area served and not taped "on" position.

flammable liquids
74. Discontinue use of liquids with flash point below $110^{\circ} \mathrm{F}$ for cleaning purposes.
75. No storage of class 1A liquids in basements.


PERMITS ARE REQUIRED OR COMPLIANCE WITH POSTED PERMIT.

* 87. To store in excess of 5 gallons of flammable liquids inside or 10 gallons outside.
* 88. To store in excess of 25 gallons of combustible liquids inside or 60 gallons outside.
* 89. For welding or cutting torch operations.
- 90. For above ground flammable liquids storage tanks.
* 91. Lumber yards in excess of 100,000 board feet of lumber.
* 92. To operate refrigeration equipment.
* 93. To have an LPG tank in excess of 120 water gallons.
* 94. To store hazardous materials in excess of 100 lbs. solid, 55 gallons liquid or 200 cu . ft. gas.


## CITY OF SAN RAFAEL

## FIRE PREVENTION BUREAU

## Correction Notice

Job Located at 8985 NGMall FFX. French Cleanevs.
This job site has been. inspected and has been found to be in violation of the applicable laws and ordinances of the City of San Rafael or the State of California. You are hereby notified that final approval will not be given (unless conditionally signed for below) until all of the violations are corrected and said corrections have been witnessed and initialed by the Fire Department. When the corrections have been made, call 485-3308 for a re-inspeclion. This notice has been placed conspicuously near the Building Department sign off card for the job and, pursuant to Section 3.104 of the Uniform Fire Code, it shall not be 10 10 removed or altered except by the Fire Department.

## (1) Install one 2A lOBC Five Extinguished



Date 10.30 .87 By foulest Craig
Conditional Certificate of Occupancy
Approved By $\qquad$
cc: Fire Department
Building Department

FIELD INSPECTION CHECKLIST
SPRINKLER SYSTEMS



FLAMMABLE LIQUID TANK REMOVAL/ABANDON IN PLACE
tank pressure test - Company name nA


TANK STEAM CLEANED OR TRIPLE
RANSEAIIH pRESSURE HOO,
TANK FREED OF VAPORS
METHOD USED
hydro carbon reading


TANK REMOVAL CUNTRACTOR Batch Petrolium
ADDRESS 1400 old Conejo Road
TANK HAULER _H\&H Shipping Co.__ID OR EPA \# HWH \# 800849
ADDRESS/DESTINATION China Basin SF. I
WASTE HAULER sears ID OR EPA \# CAD 000313445
ADDRESS/DESTINATION
PERMIT APPLICATION YEs $X$ No DATE ISSUED $1 / 26 / 87$
by Fowestleaig___ MARIN COUNTY E.H. PERMIT \# ok
uLSAN RAFAEL

SPECIAL PROCESSES


State License No. $396575 B_{\text {type: }}$ A city Business Lice. No. : $-N A-$
Type of Permit
$\qquad$ Application of Flammable Finishes
$\qquad$ Fumigation and Thermal Insecticidal Fogging
$\qquad$ Compressed Gases
$\qquad$ Cryogenic Fluids
$\qquad$ Explosives and Blasting Agents
$\qquad$ Fireworks
$\qquad$ Flammable Liquids (Storage/Handling)
$\qquad$ Hazardous Chemicals
$\qquad$ High-Piled Combustible Stock
Liquefied Petroleum Gases

- Other Undeirgrouncl Tank Removal
$\qquad$
47.102
74.103
75.103
77.104
78.102
79.103
80.102
81.103

Description of operations/Location of storage: _Size + Number of
Tanks: 1 TANK 500 gallon. Waste Motor: 011
To comply w/ FiD, std NO, 310
FOR FIRE DEPARTMENT USE
Plans submitted:
Date: $\qquad$ Approved by: $\qquad$ Date: $\qquad$
Field Inspection:
By: Fcraig Date: $1 / 26 / 87$ By: $\qquad$ Date: $\qquad$
Final approval by: ZoneotNCluig_ Date: $1 / 26 / 87$
Permit fee: $\$ 30,00$ Date paid: $172 / 870$ Permit number: $\qquad$
Remarks: $\qquad$
FP-1 (Revised 2/80)

## SAN RAFAEL COMMUNITY DEVELOPMENT DEPT. BUILDING AND SAFETY DIVISION

1400 FIFTII A VINIc: - PO BOX 151560 - SAN RAFAEL - CA $94915-1560$ PHONE 415485.3365

## APPLICATION FOR BUILDING PERMIT

## DATE RECEIVED

DATE ISSUED
$10-18-04$
MAIL $\square$
APPLICANT INFORMATION (Please Type or Print)
JOB ADDRESS 9000 NOOTHGATE MAll. ASSESSORS PARCEL. OWNER SEARS ROEBuCK BuI/dne
 $\qquad$ cIryturfintor Sstaxte. PHONE 920.854 . 3842
PLANS SUBMITED $\quad$ Yes $\square$ CONTACTOR WATEON Refine
AODRESS Silo Lonquicu Dor. CITV SACRAmento CA PHONE SII6:4816293 STATELC.A $\leq 02258.8$ CITY HIC.:

PLANS PREPARED BY
ADDRESS $\qquad$
CONSTRUCTIONLENDER
valuation $\$$
110,000
DESCRIPTION OF WORK R Re Reef

I hereby acknowledge that I have read this application and that it is correct and agree to comply with ell City ordinances and State laws regulating building construction.
I heroby acre to save, indemnity and hep harmless the City of San Rafael, its officers and duty appointed representatives against all habitues and judgments resulting from this permit.
I heroby cecily that I am properly registered ardor ficensed as required by the City of San Rafael and the State of California or that I am oxempl from the Contractor License Laws of the State of of alitornia under Section 7031.5 of the Business! and Professional code.

Signature of Permitter


## OFFICE USE ONLY

## NOTES

construction


BUILDING PERMIT FEE $924-0.2$
PREPAD PLAN
REVIEW FEE
PLAN CHECK FEE. (Balance)
PLAN RETENTION FEE
S.M.I.P.
.... $023 \cdot 10$
ged room tax
DEVELOPMENT TAX
OTHER Street Maintenance l, OOD, 0 TOTAL
$:=1=-9$


FLOOR AREA (Main Building)

## VALUATION $\$$

This permit becomes null and void if the work is not commenced within ono hundred eighty (180) days of is abandoned for a period of one-hundied em, ty (180) days. Application lo r refund must be subnultud wilier pie hundred eighty ( 180 ) days from date of issuance.

CONDITIONS.
The following conditions together with the submitted plans and/or specifications are made a pan of this permit:

Br:
r: $\qquad$
-
$\qquad$

## SAN RAFAEL COMMUNITY DEVELOPMENT DEPT. BUILDING AND SAFETY DIVISION

1400 FIFTH AVENUE - PO BOX 151560 - SAN RAFAEL - CA 94915-15(x) PHONE 415 485-3365

APPLICATION FOR MECHANICAL PERMIT

PERMIT NOMORO20017 DATE RECEIVED $2=15=02$
JOBADDRESS . 900 NORTHEGTE MACL (SEARS) meChanical contaactor eat - An ADDRESS 3-55S. ALRWAT BL CIT SENTA.ROSA PHONE(707.2.5-47-105.9 STATE LIC.\# . 1.3 .7 .1 .95 CITY BUS. LIC.\#

I hereby acknowledge that I have read this application and that the information is correct and agree to comply. with all city ordinances and state laws regulating work governed by this permit.

I hereby agree to'save, indemnify and keep harmiess the City of San Rafael, its officers and duly appointed representatives against all liabilities and judgements resulting from this permit.


## NOTES

1 A Reinspection is an inspection made necessary by failure to complete corrections noted on initial inspection or extra work that cannot be inspected under original permit inspections.

2 This permit becomes null and void if the work is not commenced within one-hundred-eighty (180) days or is abandoned for a period of one-hundred-eighty (180) days. Application for refund must be submitted within one-hundred-eighty (180) days from date of issuance.

324 hour notice required for inspections.
4 Mechanical code is the Uniform Mechanical Code. Copies available at City Treasurer's Office.

5 Late permits will be assessed a double fee with minimum of $\$ 103.50$

| NO. | SCHEDULE OF FEES | EACH | FEE |
| :---: | :---: | :---: | :---: |
|  | ISSUANCE OF PERMIT |  | 17.25 |
|  | IN ADDITION FOR INSTALLATION, RELOCATION OR REPLACEMENT OF |  |  |
|  | HEATING GAS APPLUANCE NOT OVER 100,000 BTU | 10.35 |  |
|  | HEATING GAS APPLLANCE OVER 100,000 BTU | 1265 |  |
|  | RESIDENTIAL COOUNG UNIT (OTHER THAT PORTABLE) | -10.35 |  |
|  | COMMERCIAL GAS COOK RANGE | 7.50 |  |
|  | FOOD PREPARATION GAS APPLIANCE - NOT HEREIN LISTED | 7.50 |  |
|  | AIR HANDLING UNIT EXCEEDING 10,000 CFM | 1265 |  |
|  | VENTLLATION FAN | 5.25 |  |
|  | GAS APPLIANCE - NOT HEREIN LISTED | 7.50 |  |
|  | SUPPLY AND RETURN AIR OUTLETS EA. | 1.15 |  |
|  | GAS VENT EA. | 525 |  |
|  | VENTILATING DUCTS | 7.50 |  |
|  | COMMERCIAL HOOD, DUCTS \& BLOWER | 7.50 |  |
|  | RESIDENTIAL HOOD \& DUCT | 7.50 |  |
|  | CHIMNEYS (SOLID FUEL) | 7.50 |  |
|  | REFRIGERATION UNIT (COMMERCIAL) | 10.35 |  |
| 1 | BOILER COMPRESSOR, PACKAGED HEATING COOLING UNIT, ABSORPTION SYSTEM |  | : |
|  | NOT OVER 3 HP OR 100,000 BTU's | 10.35 |  |
|  | NOT OVER 15 HP OR 500,000 BTU's | 19.00 |  |
|  | NOT OVER 30 HP OR 1,000,000 BTU's | 25.90 |  |
|  | NOT OVER 50 HP OR $1,750,000$ 8TU's | 38.50 |  |
|  | OVER 50 HP OR 1,750,000 BTU's | 64.50 |  |
|  | EACH APPLANCE OR PIECE OF EQUIPMENT REGULATED BY THIS CODE FOR WHICH NO FEE IS LISTED | 7.50 | m |
|  | SPECIAL INSPECTION OR INVESTIGATION TO DETERMNE CODE COMPLANCE PER HOUR (\$34.50 MNIMUM) | 34.50 |  |
|  | EACH REINSPECTION | 34.50 |  |
|  | GAS PIPING | 3.45 |  |
|  | $\text { MINIMUM FEE } \quad \$ 51.75$ |  |  |
|  | $1 / 92$ |  |  |



To: Building Commission San Rafael, CA.

From: Sears San Rafael unit \#1528 C/O Dennis Puccetti 9000 Northgate Mall San Rafael, CA. 94903

Re: Building Remodel Proposal

To Whom It May Concern:
In the effort for us here at Sears in San Rafael, to control the ongoing problem of inventory loss and merchandise selection availability, we are planning to do some minor building remodeling.
This letter is our stores proposal for the following planned building remodel for Sears at Northgate Mall.
Please find enclosed with this letter a map that shows the areas of the building that we plan to remodel.

## Refering to the map:

## Green Area "A"

This area we plan to lock the existing customer entrance doors and construct a wall that will completely cover and block the fore mentioned entrance. From the map if you look directly to the left you will see a door that will act as an emergency exit door. On this door we will install a time delayed crash bar that will, in an emergency, allow customers and associates access to the exterior of the building.

## Green Area "B"

This area of the store our plan is to completely lock and secure two (2) of the existing customer entrance doors. Then with the other two (2) remaining doors we plan to install time delayed crash bars. Our intent with this plan is to completely restrict access through these doors from both customers and associates.

The forgoing is our proposed building remodel plan, and we at Sears are seeking your review and approval so that we may expedite these plans as soon as possible.

We would like to thank you in advance for your careful consideration in this


Dennis Puccetti
Director of Operations
Sears San Rafael



APPLICATION FOR BUILDING PERMIT
PHONE (415) 485-3365


PLANS SUBMITTED
YesNo $\square$
PLANS PREPARED BY $\qquad$
ADDRESS $\qquad$
CONSTRUCTION LENDER
 WALLSEYC \$NEW UNLLS
$\qquad$
I hereby acknowledge that I have read this application and that it is correct and agree to comply with all City ordinances and State laws regulating building construction.

I hereby agree to save, indemnify and keep harmless the City of San Ratael, its officers and duly appointed representatives against all liabilities and judgments resulting from this permit.

I hereby certify that I am properly registered and/or licensed as required by the City of San Ralael and the State of California or that I am exempt from the Contractor License Laws of the State of California under Section 7031.5 of the Business and Prolessional code.


OFFICE USE ONLY
NOTES
"Extra Inspections" are inspections necesitated by lailure to make noted correction, work not ready, inspection of work done without permit prior to issuance of permit or inspector unable to gain entry to job.

Twenty-four (24) hours notice is required for called inspections.
This permit becomes null and void if the work is not commenced within one-hundred-eighty (180) days or is abandoned for a period of one-hundred-eighty (180) days. Application for refund must be submitted within one-hundred-eighty (180) days from date of issuance. CONDITIONS:

The following conditions together with the submitted plans and/or

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$\square$

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$\square$
S U CONSTRUCTION
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$\square$ IV
$\square$
NO. OF STORIES $\qquad$ NO. OF UNITS


FLOOR AREA (Main Building) $\qquad$
FLOOR AREA (Garage)
… .......

ACCESS BLDG.
VALUATION \$

BUILDING PERMIT FEE

$$
420.60
$$

PREPAID PLAN
REVIEW FEE
PLAN CHECK FEE. (Balance) $\qquad$ PLAN RETENTION FEE S. M. I. P. $\qquad$ bedroom tax $\qquad$ DEVELOPMENTTAX $\qquad$ OTHER





SAN RAFAEL PUBLIC WORKS BUILDING DEPARTMENT 1400 FIFTH AVENUE - PO BOX 151560 - SAN RAFAEL , CA 94915-1560 PHONE (415) 485-3365

## APPLICATION FOR BUILDING PERMIT

## APPLICANT INFORMATION (Please Type or Print)

ASSESSOR'S PARCEL
OWNER SEARS
ADDRESS 9000 NORTHEATE MALL CITY SAN R RAEAEL PHONE 4/5-507-2351 CONTRACTOR SWENSON CONSTR CO. ADDRESS IDOL FORTUNE DR, SUITES CITSAN NOSE... PHONE 4OB434-1686 STATE LIT.\# 4303 -4.-. CITY LIC.\#
PLANS SUBMITTED No pLANS PREPARED BY ARCHITECTS PACIFICA LTD,
 constructionlender NONE
VALUATION $\$ 20$ OOOOO
DESCRIPTION OF WORK ALLTEASHTONS.
TOMALSNNTRANGE
I hereby acknowledge that I have read this application and that it is correct and agree to comply with all City ordinances and State laws regulating building construction.
I hereby agree to save, indemnify and keep harmless the City of San Rafael, its officers and duly appointed representatives against all liabilities and judgments resulting from this permit.
I hereby certify that I am properly registered and/or licensed as required by the City of San Rafael and the State of California or that I am exempt from the Contractor License Laws of the State of California ynder-Section 7031.5 of the Business and Professional code.


## OFFICE USE ONLY

## NOTES

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Twenty-four (24) hours notice is required for called inspections.
This permit becomes null and void it the work is not commenced within one-hundred-eighty ( 180 ) days or is abandoned for a period of one-hundred-eighty ( 180 ) days. Application for refund must be submitted within one-hundred-eighty (180) days from date of issuance.

CONDITIONS:
The following conditions together with the submitted plans and/or specifications are made a part of this permit:

PLANS APPROVED OR ISSUANCE PERMIT/GSUED BY: Br: Br:
 construction


BUILDING PERMIT FEE
_ 258.80 PREPAID PLAN REVIEW FEE

PLAN CHECK FEE. (Balance)
PLAN RETENTION FEE
S. M.I. P.

BEDROOM TAX
DEVELOPMENT TAX OTHER

TOTAL





APPLICATION FOR BUILDING PERMIT

CITY of SAN RAFAEL
1400 FIFTH AVENUE, P.O. BOX 60. SAN RAFAEL
CALIFORNIA $94915-0060$
public works
(41.5) ${ }^{\text {PHONE }} 485-3365$



CONSTRUCTION. $\square$ $11 \cdot$ 111 STATELIC. NO. 184033 $\qquad$ PLANS'SUBMITTED $\cdots$ YES $\square \mathbf{X}$ XI $\square$ PLANS" PREPARED BY J._B. Huber 456-9091

ADDRESS 2143 Francisco Blvd , Dan Rafael CONSTRUCTION LENDER:
$\therefore \quad$ NONE

VALUATION $\qquad$

I hereby acknowledge that I have read this application and state that the cove is correct and acre to comply with all City ordinances end Stale lows regulating building construction.

I hereby agree to save, indemnity, and keep harmless the City of Son Rafael, ils officers, arid duly appointed representatives against all. abilities and judgments resulting tom this permit.

FIRM NASIK.
BY: $\qquad$

THIS PERMIT EXPIRES AND BECOMES NULL AND VOID IF THE WORK' IS NOT. COMMENCED WITHIN 18 GAYS. LOCATION OF THE STRUCTURE ON - THE PROPERTY IS THE RESPONSIBILITY OF THE PERMITEE:'

DESCRIPTION OF WORK: $\qquad$ Tenant Imp

PLAN CHECKED BY: $\qquad$ DATE: $2=7049$
THE FOLLOWING CONDITIONS TOGETHER WITH THE SUBMITTED PLANS ANDIOR SPECIFICATIONS ARE MADE A PART OF THIS PERMIT:
$\qquad$
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$\qquad$
$\qquad$

APPLICATION FOR BUILDING PERMIT
DEPARTMENT OF

CITY of SAN RAFAEL
1400 FIFTH AVENUE, P.O. BOX 60, SAN RAFACL
CALIFORNIA 94915-0060


CONTRACTOR Wedge Roofing $\quad$ Inc.
ADDRESS P. O. Box 821


PLANS SUBMITTED
YESNO XX

Thereby acknowiedge that thave tead this apticatan and state that the above is corcect and agree to comply with ofl City ordinances and Slate laws iegulating builang consitiuction,

1 hereby ogree to save, indemnity. and keep harmiless the $\mathrm{C}_{1}$; of San Rotoel, it ofticers, and duly appointed representatives oganst all livibilites and iudgments resultint tiom this permit.

FIRM NAME Wedge Roofing, Inc.
$\qquad$

THIS PERMIT EXPIRES AND BECOMES NULL AND VOID IF THE WORK IS NOT COMMENCED WITHIN 180 AAYS. LOCATION OF THE STRUCTURE ON THE PROPERTY.IS THE RESPONSIBLLITY OF THE PERMITIEE.



APPUCATION FOR BULLING PERTH

CITY of SAN RAFAEL
1400 FIFTH AVENUE, P.O. BOX 60, SAN RAFACL
CALIFORNIA 94915.0060 .
CALIFORNIA 94915-0060


ADDRESS
city $\qquad$ PHONE

CITYIIC. NO. $\qquad$ STATE IC. NO $\qquad$ PlANS SUBMITTED

 Anomsis. 123 S. LAKE: Ave PASADena CA gila

valuations $s$ 10,000

 - Sears Robaviex co

Math $T$ deecem

THIS PERMIT EXPIRES AND BECOMES NULL AND VOID IF THE WORK IS NO COMMENCED WITHIN 180 DAYS. LOCATION OF THE STRUCTURE ON THE PROPERTY IS THE RESPONSIBILITY OF THE PERMITEE.

DEPARTMENT: OF
PUPLIC wORKS
LANOLDEVELOPNIENT DIVISION $\because$ RM. 300
ore receive $\frac{1-16-8 c}{-20}$
OAF iSSUED $1-24.8$ y milarión BUILDING PERMIT FEE PLAN CHECK FEE . - _ PLAN Retention fee - - - - - - $\frac{5.00}{1.00}$
S.MIP_ - - - - - - cry $08.01046-\cdots-\cdots-\overline{38.80}$

OCCUPANCY $\square$ A.2-2.1-3-4.
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B. 4 R. 1
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$\qquad$ 20.50 52.30 H
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$\square$ IV $\square$ NO. OF STORIES: $\qquad$ FLOOR AREA (MAIN BUILDING) $\qquad$ No.of UNITS $\qquad$ FLOOR AREA (GARAGE) $\qquad$ ACCESS. BLDG. $\qquad$ DESCRIPTION OF WORK: INTERIOR $\qquad$
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PLAN CHECKED BY: -1 Date: $1-18-80$ THE FOLLOWING CONDITIONS TOGETHER WITH THE
SPECIFICATIONS ARE MADE A PART OF THIS PERMIT:
MODIFY FIRE SPRINKLER SYSTEM TD THE SATISFACTON OF THE $S A U$ RAFAET.FIRE PEON.
CI SUED BY CO

APPLICATION FOR BUILDING PERMIT
DEPARTMENT OF

CITY of SAN RAFAEL
1400 FIFTH AVENUE, PO. BOX 60, SAN RAFAEL.
(415) ${ }^{\text {PHONE }} 485-3365$
public works
LAND DEVELOPMENT DIVISION $\because$ RM. 300

$\qquad$ ) STATE IC NO. 365357

PLANS SUBMITTED
YES $\square$ NO $\square$
PLANS PREPARED BY
ADDRESS
CONSTRUCTION LENDER;
valuation $\$ 151,000.00$
I hereby acknowledge that I hove read this opflication and state that the above is correct and agree to comply with all City ordinances and State lows regulating building construction.

I hereby agree :o save, indemnify, and keep harmless the Lily at San Rotael, its officers, and duly apportied representatives against all tiobilities and judgments resulting from this permit.
 NOT COMMENCED WITHIN 180 MAYS. LOCATION OF THE STRUCTURE ON THE PROPERTY IS THE RESPONSIBILITY OF THE PERMITEE.


CONSTRUCTION: $\square$
$\square$ 11 111 FLOOR AREA (MAIN BUILDING) $\qquad$ NO. OF STORIES: $\qquad$ FLOOR AREA (GARAGE) $\qquad$ ACCESS. BLDG $\qquad$ DESCRIPTION OF WORK: $\qquad$

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THE FOLLOWING CONDITIONS TOGETHER WITH THE SUBMITTED PLANS ANDIOR SPECIFICATIONS ARE MADE A PART OF THIS PERMIT:
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ISSUED BY:


WHITEFFIK
YELLOW-APPLICANT

APPLICATION FOR BUILDING PERMIT

CITY of SAN RAFAEL
1400 FFTH AVENUE, P.O. BOX 60, SAN RAFAEL.
CALIFORNIA 94915.0060
(4.15) ${ }^{\text {PHONE }} 485-3365$

DEPARTMENT OF
PLEAD WORKS
LAND DEVELOPMENT QIVIGIDN $\because$ RM. 300



 : 1 ADRESS/ZOLFORTUNE DR., SUITE
癿 Giryic no. $\quad$ STATE LC NO 430341


A ADDRESS
CONSTRUCTION LENDER.
valuation $5-24,000^{\circ 0}$
at. I hereby acknowledge thai I have read this application and state that the above is correct and agree 10 comply with all City ordinances and State laws reguifang building construction.

I hereby agree to save, indemnify, and keep harmless the Clii or Son Rafael, also officers, and duly appointed teppeseritanes against: all liabilities and judgments resulting from this permit.


THIS PERMIT EXPIRES AND BECOMES NULL AND VOID IF THE WORK IS NOT COMMENCED WITHIN 180 PAYS. LOCATION OF THE STRUCTURE ON THE PROPERTY IS THE RESPONSIBILITY OF THE PERMITTER.
$\qquad$
DISTRIBUTION:
WHITE -FILE
YELLOW-APPLLICANT
PINK - ASSESSOR
ORANGF-FIRE DEPT


CONSTRUCTION. $\square$
$\square$ 11 $\square$
111
IV V FLOOR AREA (MAIN BUILDING) $\qquad$ NO. OF STORIES: $\qquad$ FLOOR AREA (GARAGE) $\qquad$ ACCESS. BLDG. $\qquad$ DESCRIPTION OF WORK: INSTARS INTERN MARTINS: 15 T FLOOR $4 S E$ Sirs FinaucoAx Metxuevex
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$\qquad$
PLAN CHECKED BY: $\qquad$ DATE: $\leftrightarrows-2$
THE FOLLOWING CONDITIONS TOGETHER WITH THE SUBMITTED PLANS AND/OR SPECIFICATIONS ARE MADE A PART OF THIS PERMIT:
$\qquad$ ISSUED BY: F VI

APPLICATION FOR BUILDING PERMIT
CTr 1 SAN RAFF
BUILDING DEPARTMENT


DECHATATHON EKEMPTION FOR OWNEF-DUADEE , . Reference From $\therefore \therefore \quad \therefore$ Stabe Business and Professional Code
: 7031.5 Statement of contractor as to license required as part of local permit regulations. Each county or city which requires the issuance of a permit as a condition precedent to the construction, alteration, improvement, demolition or repair of any building or structure shall also require that each applicant for such a permit file as a condition precedent to the issuance of a permit a state. ment which he has prepared and signed stating that the applicant is licensed under the provisions of this chapter, giving the number of the license and stating that it is in full force and effect, or, if the applicant is exempt from the provisions of this chapter, the basis for the olleged exemption.


APPLICATION FOR BUILDING PERMIT

CITY of SAN RAFAEL
1400 FIFTH AVENUE, SAN RAFAEL, CALIF. 94902

BUILDING DEPARTMENT
ROOM 302


APPLICANT TO FILL IN WITHIN HEAVY LINES - TYPE ORPRINT


CITY LIC. NO. $\qquad$ STATELIC. NO, $\qquad$
PLANS SUBMITTED.
YESNO $\square$
PLANS PREPARED BY $\qquad$
ADDRESS $\qquad$ CONSTRUCTION LENDER:

VALUATION. \$ $\qquad$

I hereby acknowledge that I hove read this application and state that the above is carrect and agree to comply with all City ordinances and Stale laws regulating building construction.

I hereby ogree to save, indemnify, and keep harmless the City of San Ratael, its officers, and duly appointed representatives against all liabilities ond judgments resulting from this permit.


NOTE: OOHNER MUST FILL IN REVERSE SIDE OF THIS APPLICATION
this permit expires and becomes null and void if the work is NOT COMMENCED WITHIN 60 DAYS. LOCATION OF THE STRUCTURE ON the property is the respónsibility of the permittee.


PLAN CHECK FEE
ANNEX FEE $\qquad$
S.M.I.P

CITY ORD. \#. 1046 $\qquad$


NO. OF LIVING UNITS $\qquad$ NO. OF FLOORS $\qquad$ FLOOR AREA, MAIN BUILDING - FLOOR AREA GARAGE $\qquad$ ACCESS. BLDG. $\qquad$ DESCRIPTION OF WORK
$\qquad$
$\qquad$ . ${ }^{\cdot}$. PUBLIC WORKS DEPT.

CHECKED BY $\qquad$ PLANNING DEPT.

CHECKED BY $\qquad$
THE FOLLOWING CONDITIONS TOGETHER WITH THE SUBMITTED PLANS AND/OR SPECIFICATIONS ARE MADE A PART OF THIS PERMIT:
$\qquad$
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$\qquad$


FILE COPY

APPLICATION FOR BUILDING PERMIT

CITY of SAN RAFAEL
CITY of SAN RAFAEL
1400 FIFTH AVENUE, SAN RAFAEL, CALIF. 94902
 NOT COMMENCED WITHIN 60 DAYS, LOCATION OF THE STRUCTURE ON THE PROPERTY IS THE RESPONSIBILITY OF THE PERMITEE.

BUILDING DEPARTMENT ROOM 302


## DECLARATION EXEMPTION FOR OWNER-BUILDER Reference From

 $\therefore \quad \because \quad \because \quad \therefore \quad \therefore$ State Business and Professional Code7031.5 Statement of contractor as to license required as part of local permit regulations. Each county or city which requires the issuance of a permit as a condition precedent to the construction, alteration, improvement, demolition or repair of any building or structure shall also require that each applicant for such a permit file as a condition precedent to the issuance of a permit a statement which he has prepared and signed stating that the applicant is licensed under the provisions of this:chapter, giving the number of the license and stating that it is in full force and effect, or, if the applicant is exempt from the provisions of this chapter, the basis for the alleged exemption.

## $\because$ I HEREBY CERTIFY THAT I AM EXEMPT FROM THE CONTRACTORS LICENSE LAWS OF THE STATE OF CALIFORNIA UNDER SECTION 7031.5 OF THE

 BUS. AND PROF. CODE BECAUSE OF ONE OR MORE OF THE FOLLOWING CONDITIONS:I:... 1 am, the owner, of the property and the structure is being bull for the occupancy of the owner and will not be offered for sale within the year. (Sec. 7044)
2 \&... The building does not contain more than three (3) dwelling units, one of which will be occupied by me as the owner. (Sec. 7044)
3. . As the owner, 1 am contracting with a licensed contractor to construct the project. (Sec.'7050)
4.... Aggregate total of the contracts is not more than $\$ 100$ for labor, material and all other items of work. (Sec. 7048)
' 5 ..... am a licensed architect, engineer, or structural pest control operator operating within the scope of my license. (Sec. 7051)
$6 . \ldots .1$ am furnishing materials and supplies without fabrication as exempted by Sec. 7052
$\because$ of the State Contractors License Laws. (Sec. 7052)
$7 \ldots$.... am an employee with wages as my sole compensation. (Soc. 7053)
8...: The property is in the ownership of the Federal Government. (Sec. 7047)


APPLICATION FOR ̉ BUULDDING PERMIT

CITY of SAN RAFAEL
1400 FIFTH AVENUE, SAN RAFAEL, CALIF. 94902.


DECLARATION EXEMPTION FOR OWNER-BUILDER Reference From $\therefore-1.4, \ldots, \quad$ State Business and Professional Code
7031.5 Statement of confractor as to license required as part of local permit regulations. Each county or cily which requires the issuance of a permit as a condition precedent to the construction, alteration, improvement, demolition or repair of any building or structure shall also require that each 'applicant for such a permit file as a condition pracedent to' the issuance of a permit a statement which he has prepared and signed stating that the applicant is licensed under the provisions, of,this.chapter, giving the number of the license and stating that it is in full force and effect, or, if the applicant is exempt from the provisions of this chapter, the basis for the alleged exemption.


APPLICATION FOR BUILDING PERMIT
CITY of SAN RAFAEL - Phone 1400 FIFTH AVENUE, SAN RAFAEL, CALIF. 94902 456.1112 EXT. 52


DECLARATION EXEMPTION FOR OWNER-BUILDER Reference From
$\therefore \quad: \quad$ State Business and Professional Code
7031.5 Statement of contractor as to license requited as part of local permit regulations. Each counly or city which requires the issuance of a permit as a condition precedent to the construction, alteration, improvement, demolition or repair of any building or structure shall also require that each applicant for such a permit file as a condition precedent to the issuance of a permit a statement which he has prepared and signed stating that the applicant is licensed under the provisions' of this"chapter, giving the number of the license and stating that it is in full force and effect, or, if the applicant is exempt from the provisions of this chapter, the basis for the alleged exemption.




these plans have been KEVIEWED
for and appear to be in conformance with Local urdinance and Nationally Recqgnized Standards for Fire Protection Regerdless of thi; review, conditions in the wield shall meet said ordinance and stantlards pror to final occuparicy.
tonest haij hosp -8-11-86 RE MARSHAL DATE

Prelemenary only
plams to be resubnited for pump locatuin

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Fire Chief
Robert E. MarcuccI

September 6, 2001
Mr. Dennis Puccetti
Sears San Rafael unit \#1528
9000 Northgate Mall
San Rafael, CA 94903
Re: Modification of Building Exiting Arrangement, 9000 Northgate Mall (San Rafael Building Permit B0108-057)

Mr. Puccetti:
Thank you for your submittal regarding plans to delete the bank of glass panel doors from the north-east corner of the building (between column lines $J$ \& $K$, along column line 1). These doors have historically served as a customer entrance and exit. Your proposal also includes the immobilization of two door leafs at the west entrance (opposite the garden/service center).

I have completed an analysis of the exiting requirements based on the second floor occupant loading and current code requirements. Your current plans to delete the bank of doors and leave in place the single leaf metal door at that location complies with current code requirements. Assuming the remaining door has a 32" clear width when open, the allowable occupant load for the second story would be 640 persons. This occupant load figure assumes that three other similar doors are provided around the floor plan for exiting from the second floor. For reference purposes, an occupant load of 640 would allow the following configuration: $33,000 \mathrm{sq}$. ft. of retail sales floor area, $14,800 \mathrm{sq}$. ft. of stock room, 3000 sq. ft. of office area and 2400 sq . ft. of mechanical service area.

As we discussed on 9/4, the portion the proposal calling for time delay egress door hardware would only be acceptable if a smoke detection system were installed throughout the building. Based on our conversation its my understanding that this portion of the original proposal has been dropped so this is not an issue requiring resolution. You may at your option employ alarmed exit hardware without any restrictions.

One item not specifically addressed in the proposal is exit designation. As we discussed during our first meeting on this issue, an illuminated exit sign mounted to be visible from the sales floor should be added to direct persons to the sole remaining exit door at the effected corner. Also, steps must be taken at the west entrance to avoid confusing the immobilized door leafs with the active leafs. Appropriate steps include the removal of any door pull or similar hardware from the doors and the addition of markings or other architectural features (such as visibility dots, wainscoting, decorative planters, etc.) to clearly communicate to the public that the door leafs have become side lights.

While I realize that the San Rafael Building Department has already issued you a permit to proceed with this project I would like to thank you for taking the extra step of soliciting our input on this issue. I hope you will find that approaching this type of project in such a proactive manner will result in a smoother project timeline with less chance for unexpected delays or revisions. If you have any questions regarding any of the requirements outlined above please contact this office at (415) 485-3308.

Sincerely,


STEVEN RIGGS
Fire Inspector

Cc: file


## RECEIPT 309581

(This is not a license or permit)

City of San Rafael
1400 FIFTH AVENUE SAN RAFAEL, CA 94901


1

## ACCOUNT DIETATEUTITON

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\begin{array}{lr}
001-D A-1650-000-2204-00000 & 31.25 \\
001-D A-1650-000-7710-00000 & 0.50
\end{array}
$$

RECEIpT $\quad 309$ OBI
CHECK \# CASH

## SEARS ROEBUCK

POST IN A CONSPICUOUS PLACE ON THE JOB City of San Rafael INSPECTION RECORD

Building Division, Rm, 300, 1400 (Fth Avenue 415 485-3365
Permit Na, BolO- Date (8-17-10)


Contractor
Owner


NOTICE: Separate Permits are Required for Plumbing; Heating, Electrical, and Work Within the Public Right- of Way.


Foundation Inspections
To Be Made Before Concrete Is Poured
Foundation $\qquad$ Grade Beams $\qquad$
Piers. $\qquad$ Undersalab $\qquad$
Slabs Tempiplac $\qquad$
Masonry, Concrete \& Reinforcing Inspection
To Be made Before Shouting, Ganiting or Placing of Concrete
Reinforcing $\qquad$ Walls $\qquad$
Cells. $\qquad$ Grout Lift es $\qquad$
Sub-Fioarlinspections
Ta Ba Made Biafra Sub Haar is Laid
Joists \& Bills $\qquad$ Rough Plumbing. $\qquad$
Ducts $\qquad$
Rough Inspections :
To Ba Made Bafara Interior Wall Covering is Appliad E Ext Sheer

Rough Wining $\qquad$ Rough Mechanical $\qquad$
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Framing
Aloof Nailing $\qquad$
Sheer Walls $\qquad$
Wall Board and Plaster Inspections
To Be Made Before Wall Boerdis Tapad.ar After Lath or Wire is Applíad
Sheetrock $\qquad$ Misc. $\qquad$
Lath $\qquad$
Final Inspections
Do Not Occupy Building: Until These Are Signed
Gas Test $\qquad$
Heating $\qquad$
Plumbing $\qquad$
Electrical $\qquad$
Building $\qquad$
Fira:Dept. $\square$

SAN RAFAEL COMMUNITY DEVELOPMENT DEPT.
BUILDING AND SAFETY DIVISION
1400 FIFTH AVENUE - PO BOX 151560 -SAN RAFAEL - CA 94915-1560 PHONE 415 485-3365

PERMIT NO SUUQQ:OS7 DATE RECEIVED

## APPLICATION FOR BUILDING PERMIT

## APPLICANT INFORMATION (Please Type or Print)



## OFFICE USE ONLY

NOTES
"Extra Inspections" are inspections necessitated by failure to make noted correction, work not ready, inspection of work done without permit prior to issuance of permit or inspector unable to gain entry to job

Twenty-four (24) hours notice is required for called inspections
This permit becomes null and void il the work is not commenced within one-hundred-eighty (180) days of is abandoned for a period of one-hundred-eighty (180) days. Application for refund must be submitted within one-hundred-eighty (180) days from date of issuance

CONDITIONS:
The following conditions together with the submitted plans and/or specifications are made a pant of this permit:



CONSTRUCTION


FLOOR AREA (Main Building)
FLOOR AREA (Garage) ACCESS BLDG. ........... VALUATION \$

BUILDING PERMIT FEE
31.25

PREPAID PLAN
REVIEW FEE
PLAN CHECK FEE. (Balance)
PLAN RETENTION FEE
S. M. I. P.

BEDROOM TAX
DEVELOPMENT TAX
OTHER

B

 Sews mon Howe / Kevinthomos
Demy Pacesti/i

At the time of the inspection those items marked in columns 1, 2 or 3 were found to be in violation and shall be corrected immediately. Re-inspections occur in approximate two week intervals. Items marked under NA or OK were either not applicable or were in compliance at the time of the inspection.
B-2: General Businesses - office, wholesale and retail stores, factories, workshops using materials not highly flammable or combustible, drinking/dining establishments, school rooms for those beyond the. 12 th grade, for less than 50 people, woodworking and cabinet shops which are owner operated or where not more than one employee is operating one piece of equipment or appliance.

- -BUREAU REFERRAL VOLATIONS-fP13
*-standard available


## general requirements and special hazards -

* 1. Install approved address identification.

4. 2. Individual work station trash cans within smoking areas shall be metal or approved equal with lid.

A* 3. Trash cans used for collection shall be metal or approved equal with a lid
4 5. Remove accumulation of waste material on exterior of building.
6. Maintain 30 "clearance of combustibles to heat producing appliances.

- 11. Maintain all, area or occupancy' separation walls and draft stops.

12. Maintain in operable condition and remove all obstructions to fire/smoke doors and fife dampers. --.

* 14. Keys needed for access to all portions of buildinglare current and in Knox-Box.
exiting requirements, based on an occupant load factor of one person for every:

- 17. Two exits required if occupant load exceeds 50 (except offices).
- 18. Two exits required if occupant load exceeds 30 (offices).
- 21. Two exits required from second floor if occupant load exceeds 10
- 22. Two exits required from all basements and above the second floor
- 23. Two exits required from Mezzanines larger than 2000 square feet or 60 feet in any direction.
- 24. When two exits are required they must be separated by $1 / 2$ of the diagonal distance of the room.
- 25. Three exits required if occupant load exceeds 500 , four if over 1000.
- 27. Maximum distance to an exit is $150^{\prime}$. (unsprinklered buildings) or $200^{\prime}$ (sprinklered buildings).
- 28. Dead end corridors may not exceed $20^{\prime}$.
- 30. If occupant load is over 50 , doors must swing out; if over 100 they must only swing out.
- 31. Exit doors shall not have dead bolts or other similar devices.

A 34. Exit doors and exit paths shall not be obstructed.
A 35. No storage beneath enclosed stairs unless protected by 1 hr . construction:

- Corridors serving 30 or more shall be 1 hr . rated with 20 minute self closing doors
- 38. When 2 exits are required, all exits shall have exit signs. The main exit is' exempted if it is obvious.

4 40. Exit signs shall be internally or externally illuminated AI ALL TIMES
41. All exit paths shall be lighted at all time that the building is occupied. If separate circuits are required for the exit signs the exit lighting must also be on separate circuits.
4 95. Maximum occupant load sign is required if less than 50 people. (Restaurants, Lounges)

- 44. Interior stairways to be rated 1 hr . for 3 or 4 stories, 2 hr . for higher buildings

FIFE PROTECTION EQUIPMENT
A. 45. One 2A10BC fire extinguisher shall be provided for every 6,000 sq ft with 75 maximum travel distance.

A 49. One additional 40BC extinguisher shall be provided in all kitchens.
A 50. Extinguishers shall be easily accessible, wall mounted at a height not less than $4^{\prime \prime}$ or more than $5^{\prime}$ from for
A 51. Extinguishers shall be serviced annually, after use, and when gauge indicates recharge.
55. Fire protection or detection systems shall be extended, altered' or repaired as necessary to maintain protection

A 56. All sprinkler valves shall be locked in open position accessible and unobstructed.

- 57. Fire Department connection caps in place and work freely,

A 58. Exterior exposed portions of systems that are not brass or galvanized shall be painted with fist preventative paint.

- 59. Storage shall be maintained at least $18^{\prime \prime}$ below sprinkler heads.
-60. Storage shall be maintained at least 24 " below ceiling in unsprinklereed buildings
** 61. Maintain systems as follows: System Type
A. Standpipes
B. Sprinkler

C. Pre-enaineered/Fixed

Semilajinually \& after activation. S Somi-annually
62. Ali commercial cooking shall have a drywet chemical system protecting all cooking surfaces:

- 63. Hood and duct ventilation systems shall be maintained froe of grease.


## ELECTRICAL REQUIREMENTS

$\stackrel{\Delta}{4}$
$\qquad$
67. Cords shall not be affixed to or extended through walls, ceilings? floorslor under doors, nor subject to physical damage.
68. Maintain $30^{\prime \prime}$ clearance fronting and around électrical control panels.

4 69. Electrical main and sub-panels shall be labeled as to area served and not taped "on" position



## PERMITS ARE REQUIRED OR COMPLIANCE WITH POSTED PERMIT.

-* 87. To store in excess of 5 gallons of flammable liquids inside or 10 gallons outside.

- 88. To store in excess of 25 gallons of combustible liquids inside or 60 gallons outside.
-* 89. For welding or cutting torch operations.
- 90 . For above ground flammable liquids storage tanks.
** 91. Lumber yards in excess of 100,000 board feet of lumber.
* 92. To operate refrigeration equipment.
-.* 93. To have an LPG tank in excess of 120 water gallons.
* 94. To store hazardous materials in excess of 100 lbs . solid, 55 gallons liquid or 200 cu . ft . gas.



# To: Building Commission San Rafael, CA. stisuen Riggs <br> SAN RAFAEL FIRE DEPT. 

From: Sears San Rafael unit \#1528<br>C/O Dennis Puccetti 9000 Northgate Mall<br>San Rafael, CA. 94903

Re: Building Remodel Proposal

To Whom It May Concern:
In the effort for us here at Sears in San Rafael, to control the ongoing problem of inventory loss and merchandise selection availability, we are planning to do some minor building remodeling.
This letter is our stores proposal for the following planned building remodel for Sears at Northgate Mall:
Please find enclosed with this letter a map that shows the areas of the building that we plan to remodel.

## Refering to the map:

## Green Area "A"

This area we plan to lock the existing customer entrance doors and construct a wall that will completely cover and block the fore mentioned entrance. From the map if you look directly to the left you will see a door that will act as an emergency exit door. On this door we will install a time delayed crash bar that will, in an emergency, allow customers and associates access to the exterior of the building.

## Green Area "B"

This area of the store our plan is to completely lock and secure two (2) of the existing customer entrance doors. Then with the other two (2) remaining doors we plan to install time delayed crash bars. Our intent with this plan is to completely restrict access through these doors from both customers and associates.

The forgoing is our proposed building remodel plan, and we at Sears are seeking your review and approval so that we may expedite these plans as soon as possible.

We would like to thank you in advance for your careful consideration in this very important matter

Sincerely,

Dennis Puccetti

Director of Operations
Sears San Rafael

Address $\qquad$
$\qquad$ Contact
Issued By/Date 1st Insp. $\frac{C B / O / / C / 137}{\text { entire }}$ and insp. $\qquad$ Ord. Insp. $\qquad$ Refer to FPB $\qquad$
At the time of the inspection those items marked in columns 1,2 or 3 were found to be in violation and shall be corrected immediately. Re-inspections occur in approximate two week intervals. Items marked under NA or OK were either not applicable or were in compliance at the time of the inspection.
B-2: General Businesses - office, wholesale and retail stores, factories, workshops using materials not highly flammable or combustible, drinking/dining establishments, school rooms for those beyond the 12 th grade, for less than 50 people, woodworking and cabinet shops which are owner operated or where not more than one employee is operating one piece of equipment or appliance.

- -BUREAU REFERRAL MOLATIONS-FP13
*-Standard available


## general requirements and special hazards

* 1. Install approved address identification

4* 2. Individual work station trash cans within smoking areas shall be metal or approved equal with lid.

* 3. Trash cans used for collection shall be metal or approved equal with a lid.

5. Remove accumulation of waste material on exterior of building.

- 6. Maintain 30 " clearance of combustibles to heat producing appliances

11. Maintain all area or occupancy separation walls and draft stops
12. Maintain in operable condition and remove all obstructions to fire/smoke doors and fire dampers.
** 14. Keys needed for access total portions of building are current and in Knox-Box
exiting requirements, based on an occupant load factor of one person for every:


13. Two exits required if occupant load exceeds 50 (except offices)

- 18. Two exits required if occupant load exceeds 30 (offices).
-21. Two exits required from second floor if occupant load exceeds 10
- 22. Two exits required from all basements and above the second floor.

- 23. Two exits required from Mezzanines larger than 2000 square feet or 60 feet in any direction.
- 24. When two exits are required they must be separated by $1 / 2$ of the diagonal distance of the room.
- 25. Three exits required if occupant load exceeds 500 , four if over 1000
- 27. Maximum distance to an exit is $150^{\prime}$ (unsprinklered buildings) or $200^{\prime}$ (sprinklered,bưildings)
- 28. Dead end corridors may not exceed. $20^{\prime}$
\& 1
- 30. If occupant load is over 50 ; doors must swing out; if over 100 they must -only swing out.
- 31. Exit doors shall not have dead bolts or other similar devices.
- 34. Exit doors and exit paths shall not be obstructed.
- 35. No storage beneath enclosed stairs unless protected by 1 hr . construction
- 36. Corridors serving 30 or more shall be 1 hr . rated with 20 minute 'self closing, doors

4 38. When 2 exits are required, all exits shall have exit signs. The main exit is exempted if it is obvious.
a 40. Exit signs shall be internally or externally illuminated AI ALL TIMES
41. All exit paths shall be lighted at all time that the building is occupied. If separate circuits are required for the exit signs the exit lighting must also be on separate circuits.

- 95: Maximum occupant load sign is required if less than 50 people. (Restaurants; Lounges)



## FIRE PROTECTION EQUIPMENT

4 45. One 2A10BC fire extinguisher shall be provided for every. $6,000 \mathrm{sq}$. ft , with 75 maximum travel distance

- 49. One additional 40BC extinguisher shall be provided in all kitchens
- 50. Extinguishers shall be easily accessible wall mounted at a height not less' than 4 " or more than 5 from floor.
- 51. Extinguishers shall be serviced annually after use; and when gauge indicates recharge:
- 55. Fire protection or detection systems shall be extended, altered or repaired as necessary to maintain protection.
- 56. All sprinkler valves shall be locked in open position, accessible and unobstructed
- 57. Fire Department connection caps in place and work freely.

4. Exterior exposed portions of systems that are not brass or galvanized shall be painted with rust preventative paint

4 59. Storage shall bee maintained at least $18^{\prime \prime}$ bélów sprinkler heads.

- 60. Storage shall be maintained at least $24^{\prime \prime}$ below ceiling in unspprinklered'buildings.



62. All commercial cooking shall have a dry wet chemical system protecting all cooking surfaces.

A 63. Hood and duct ventilation systems shall be maintained free of grease.

## ELECTRICAL REQUIREMENTS



- 66. Discontinue use of extension cords and cube adapters in lieu of permanent wiring, $\}$, 3

4 67. Cords shall not be affixed to or extended through walls, ceilings', floórsior-under'doors, nor subject to physical damage.
4 68. Maintain 30 " clearance fronting and around electrical control panels.


## FLAMMABLE LIQUIDS

74. Disconinuios
75. No storage of class 1 A liquids in basements.


## permits are required of compliance with posted permit.

- 87. To store in excess of 5 gallons of flammable liquds inside or 10 gallons outside
-* 88. To store in excess of 25 gallons of combustible liquids inside or 60 gallons outside.
- 89. For welding or cutting torch operations.
-     * 90. For above ground flammable liquids storage tanks.
- 91. Lumber yards in excess of 100,000 board feet of lumber.
- 92. To operate refrigeration equipment.
- 93. To have an LPG tank in excess of 120 water gallons.
- 94. To store hazardous materials in excess of 100 lbs. solid, 55 gallons liquid or 200 cu . ft . gas. it.


87 *
88 *
89 *
90 *
91 *
92 *
93 *
94

Address of Project $\qquad$ GOO NORTH GATE DENE
Project/Business Name $\qquad$
Contractor/Owner's Name WILLIAM R. MEIXNER S SONS
Address 120 SOLANO ST,
City, State, Zip VENTルRA CA Phone No.


Mailing Address for Invoices (if different than above) $\qquad$ State Contractor's License \# $\qquad$ Expiration $\qquad$
San Rafael Business License \# 292408
Expiration DEE, 1997

A deposit of $\$ 200$ will be required when submitting this permit application. A time keeping form will be kept to track time spent on your project. You will be charged for the actual time spent to the nearest $1 / 4$ hour, with a minimum two-hour charge. The department will also charge direct and indirect costs for actual expenses incurred for consultant and/or contractual services plus overhead which may be necessary to review your project. The fee will be collected at the completion of your project, and an invoice will be mailed to you. The fees are due and payable upon the receipt of the invoice. Your project permit will not receive final Fire Department approval until all fees are paid. In addition to not issuing final approval, the Fire Department will pursue all other legal remedies for unpaid accounts. On projects that accumulate more than 3 hours (or $\$ 300$ ) in services, you will be invoiced during each month that the balance exceeds 3 hours (or $\$ 300$ ).

I have read the above statement regarding fees for this project, and I understand how the fees will be calculated, agree to pay such fees and understand that they are due prior to final acceptance of my project. Further, under penalty of perjury, I declare that I am duly authorized to encumber expenses on behalf of the firm listed above.


## Uniform Fire Code Permits*

Bonfires or rubbish fires
Bowling pin or alley refinishing
Burning in public place

- Candles and open flames in assembly areas
- Dust-producing operations
- Fruit ripening
- High-piled combustible stock

Junk yards
-

- Lumber yards
- Mall, covered

Sprinkler (Plan submittal required)
__ Residential Overhead - \#/heads $\qquad$
Other Systems - (Plan submittal required)
Residential Underground
Residential BothCommercial Overhead - \#/heads 24
Commercial Underground
Commercial Both

Open burning

- Open-flame devices in marinas
___ Ovens, industrial baking or drying
- Parade floats
- Places of assembly
- Refrigeration equipment
- Tents and Air-Supported Structures
__Other, explain $\qquad$


## Other - Environmental

__ Monitoring Well, Installation

- Monitoring Well, Destruction

Phase I or II Site Assessment/Investigation
__ Remedial Action Plan
-_Soil Borings/Groundwater Sampling
*Use other application for hazardous materials or tank permits.

# CITY OF SAN RAFAEL̇ FIRE DEPARTMENT 

1039 C Street, San Rafael, CA 94901
Phone: (415) 485-3308 Fax: (415) 453-1627
RECEIVED
FEB 031997
FIRE DEPT.
HAZARDOUS WASTE AND HAZARDOUS MATERIALS MANAGEMENT REGULATORY PROGRAM

## APPLICATION FOR A CONSOLIDATED PERMIT

Sears Portrait Studio

| Name of Business or Facility <br> Consumer Programs Incorporated <br> Business Owner Name <br> 1706 Washington Ave.,St. Louis, MO 63103 |
| :--- |
| Mailing Address Attn: Keith McCoy |

9000 Northgate Mall
94903

| Address |  |
| :--- | :--- |
| Title |  |
| $800 / 669-9699$ | $\frac{314 / 231-0761}{\text { Fax }}$ |

## Applicant is engaged in the following activities: (Check all that apply)

$\square \quad$ Storage of hazardous materials in excess of 55 gallons, or 100 pounds or 200 cu . ft. of gas
$\square \quad$ Storage of acutely hazardous materials or extremely hazardous substances at or above the Threshold Planning Quantities (see list - Appendix A)
$\square \quad$ Generation of hazardous waste.

- Treatment of hazardous waste generated on site.
$\square \quad$ Storage of petroleum products in above ground tanks. $\square \quad$ Above ground tank installation \# of tanks $\qquad$ , tank capacity $\qquad$
Above ground tank removal \# of tanks $\qquad$ , tank capacity $\qquad$
$\square$ Storage of hazardous materials in underground tanks.

| $\square$ | Underground tank installation | \# of tanks |
| :--- | :--- | :--- |
| $\square$ | Underground tank removal | \# of tanks |

$\qquad$ , tank capacity $\qquad$
$\qquad$ $\square \quad$ Tank or line integrity test Tank or line repair/replacement
$\square \quad$ Uniform Fire Code Activities requiring permit (see list - Appendix B)
Check all that apply in Appendix B \& return with permit application to above address.
( x Our business does not engage in any of the above.

## Application is for: (Check one)

$\square \quad$ A new permit for a new business
$\square \quad$ A new permit for an existing business
$\square \quad$ Modification of an existing, valid permit.
$\square$ Renewal of an expiring permit, with changes.

## CERTIFICATION AND SIGNATURE

I have used all reasonable diligence in preparing this application. I have reviewed the application and, to the best of my kpen edge, the information contained herein is true and correct.
Applicants signature_Wury Title Director, Env. Affairs
Printed name Timothy J. Price

FOR FIRE DEPARTMENT USE ONLY

| Date Received: $\quad 2 / 3 / 97$ | Received By: Oblluetear |
| :---: | :---: |
| Date Reviewed: $2 / 3 / 97$ |  |
| Date Mailed: | Action Taken: |
|  | $\square$ Permit forms sent on |
| Reviewer's Notes: | $\square$ Deposit of \$__ received on |
|  | $\square$ Permit sent on |
|  | $\square$ Permit denied; notice sent on |
|  | $\square$ App. deficient; notice sent on |
|  | $\square$ Invoice for \$ _ sent on |

SAN RAFAEL FIRE DEPARTMENT
PERMIT
This Permit has been issued to the following, pursuant to the conditions stipulated herein and in conformance with Uniform Fire Code, state and local ordinances.

This Permit expires when change of ownership, business name, or conditions outlined herein occur. This Permit shall be posted, visible and made available upon request by the Fire Prevention Inspector. This Permit may be revoked at any time for due cause in violation of Uniform Fire Code.

```
PERMIT NO: FPB 96-2062
CATEGORY: Commercial
ADDRESS OF PROJECT: 9000 Northgate Mall
PROJECT/BUSINESS NAME: Jiffy Lube
OWNER/CONTRACTOR:
SNC Plumbing & Fire Protection
1730 44th Avenue
San Francisco, CA 94122
    BUSINESS PHONE: (415)-550-1129
```

FPB 96-2062
Commercial
9000 Northgate Mall
Jiffy Lube
SNC Plumbing \& Fire Protection
1730 44th Avenue
San Francisco, CA 94122
BUSINESS PHONE: (415)-550-1129
(Issued by)


SPRINKLER SYSTEMS

INSPECTION
PLANS REVIEWED UNDERGROUND INSPECTION UNDERGROUND HYDRO UNDERGROUND FLUSH OVERHEAD HYDRO OVERHEAD INSPECTION ALARM TEST FINAL
U.L. CERT. ISSUED:


| WCL | $06 / 17 / 96$ |
| :--- | :--- |
| N/A |  |
| N/A |  |
| N/A |  |
| N/A | $06 / 20 / 96$ |
| WCL |  |
| NRA | $06 / 20 / 96$ |

## SAN RAFAEL FIRE DEPARTMENT PERMIT APPLICATION ACKNOWLEDGMENT

Date: 06/17/96
Dear Applicant:
Your permit application has been received. The current status and conditions pertaining to this application are noted below.

PERMIT NUMBER: CATEGORY:

ADDRESS OF PROJECT: PROJECT/BUSINESS: OWNER/CONTRACTOR: MAILING ADDRESS: CITY/STATE/ZIP: PHONE:

FPB 96-2062
Commercial
9000 Northgate Mall
Jiffy Lube
SNC Plumbing \& Fire Protection 1730 44th Avenue
San Francisco, CA 94122
(415)-550-1129

06/17/96
The Inspections listed below are required to be conducted/witnessed by San Rafael Fire Prevention Bureau personnel prior to issuance of the permit.

INSPECTIONS REQUIRED:
Final System
Plan Review
Overhead Inspection
Alarm Test/UL Certification
Final

At least one business day prior notice is required to schedule an inspection appointment. Contact the San Rafael Fire Prevention Bureau at 485-3308.

SAN RAFAEL FIRE DEPARTMENT
PERMIT APPLICATION
THIS IS NOT YOUR PERMIT

## Address of Project 9000 NORTHGME MAN (SEAR'S AUTO CENTER) <br> Project/Business Name JIFFY LUEE <br> contractor's Name SNC RUMBING \& EiRE HROTEITION, INC. ( <br> Address 1730,44 TIL AVE <br> city, state, zip SAN KFANCISCO, CA 94122 Phone No. $41 G-550-1129$ (exr

Mailing Address for Invoices (if different than above)
State Contractors License :595176 C16-36 Expiration $5-31-98$
San Rafael Business License 240675
Expiration 6-31-96
A time keeping form will be kept to track time spent on your project. You will be charged for the actual time spent on your project to the nearest $\frac{1}{4}$ hour, with a minimum one hour charge. The Department will also charge direct and indirect costs for actual expenses incurred for consultant and/or contractual services plus overhead which may be necessary to review your project. The fee will be collected at the completion of your project, and an invoice will be mailed to you. Your project Permit will not receive final Fire Department approval until all fees are paid. The fees are due and payable upon receipt of the invoice and become overdue 30 days later, at which time a $1 / 2$ hour late fee and $11 / 2 \%$ per month interest will be charged. In addition to not issuing final approval, the Fire Department will pursue all other legal remedies for unpaid accounts. On projects that accumulate more than 3 hours (or $\$ 150$ ) in services, you will be invoiced during each month that the balance exceeds 3 hours (or $\$ 150$ ).

I have read the above statement regarding fees for this project, and $I$ understand how the fees will be calculated, agree to pay such fees and understand that they are due prior to final acceptance of my project. Further, under penalty of perjury, I declare that I am duly authorized to encumber expenses on behalf of the firm listed above.

signature


Title


UPC PERMITS:Aircraft refueling vehiclesAircraft repair hanger
Automobile wrecking yard
Bonfires or rubbish fires
$\qquad$ Bowling pin or alloy refinishing
$\qquad$ Burning in public place
_Candles and open flames in assembly areas
$\qquad$ Cellulose nitrate storage
$\qquad$ Combustible fiber storage
 Compressed gases, flammable
$\qquad$ CryogensDry cleaning plantsDust-producing operations
__ Excavations near flammable or combustible liquid pipelines
__ Explosive or blasting agents
_ Flammable or combustible liquid pipeline operation and excavation
__ Flammable or combustible liquids and tanka

## _... Fruit ripening

__ Fumigation or thermal insecticidal fogging
$\qquad$ Garages
$-\mathrm{H}$
Hazardous material e

- Gaz Mat ate characterization/ Investigation report
$\qquad$ Haze Mat ate remediation report
$\qquad$ Highly toxic pesticidesHigh-piled combustible stock
__ Junk garda
Liquefied petroleum gases
- Lumber yards
__ Magneaium working
__Mall, covered
_ Monitoring well installation
Monitoring well destruction


THESE ARE TRANSMITTED AS CHECKED BELOW:FOR APPROVALAPPROVED AS SUBMITTEDAPPROVED AS NOTEDFOR YOUR USERETURNED FOR CORRECTIONS
AS REQUESTEDFOR REVIEW AND COMMENT
RETURN $\qquad$ DRAWINGS
$\qquad$ CALCULATIONS



MAYOR

Fire Department: Phone (415) 485-3308; FAX (415) 453-1627

SAN RAFAEL FIRE DEPARTMENT

## PERMIT

This Permit has been issued to the following, pursuant to the conditions stiuplated herein and in conformance with Uniform Fire Code, state and local ordinances.

This Permit expires when change of ownership, business name, or conditions outlined herein occur. This Permit shall be posted, visible and made available upon request by the Fire Prevention Inspector. This Permit may be revoked at any time for due cause in violtion of Uniform Fire Code.

PERMIT NO:
CATEGORY:
ADDRESS OF PROJECT:
PROJECT/BUSINESS NAME:
OWNER/CONTRACTOR:
ADDRESS:
CITY, STATE, ZIP:
PHONE: (510)-651-0247

FPB 94-2054
Commercial
9000 Northgate Mall
Sears
S \& S Fire Protection, Inc. 3090 Osgood Court Fremont, CA 94539 BUSINESS PHONE:


SPRINKLER SYSTEMS

INSPECTION
PLANS REVIEWED
UNDERGROUND INSPECTION
UNDERGROUND HYDRO
UNDERGROUND FLUSH
OVERHEAD HYDRO
OVERHEAD INSPECTION
ALARM TEST
FINAL
U.L. CERT. ISSUED:

BY
WCL
N/A
N/A
N/A
N/A
WCL
N/A
WCL 06/29/94

DATE
06/16/94

# SAN RAFAEL. FIRE DEPARTMENT 

PERMIT APPLICATION

## THIS IS NOT YOUR PERMIT

Address of Project Northaate outer - Soars
Project/Business Name Sears

city, state, Zip Fremont, CA 94539 Phone No. $651-0247$ (5-10)
Mailing Address for Invoices (if different than above)

A time keeping form will be kept to track time spent on your project. You will be charged for the actual time spent on your project to the nearest $\frac{1}{4}$ hour, with a minimum one hour charge. The Department will also charge direct and indirect costs for actual expenses incurred for consultant and/or contractual services plus overhead which may be necessary to review your project. The fee will be collected at the completion of your project, and an invoice will be mailed to you. Your project Permit will not receive final fire Department approval until all fees are paid. The fees are due and payable upon receipt of the invoice and become overdue 30 days later, at which time a $1 / 2$ hour late fee and $11 / 2 x$ per month interest will be charged. In addition to not issuing final approval, the Fire Department will pursue all other legal remedies for unpaid accounts. On projects that accumulate more than 3 hours (or $\$ 150$ ) in services, you will be invoiced during each month that the balance exceeds 3 hours (or $\$ 150$ ).

I have read the above statement regarding fees for this project, and I understand how the fees will be calculated, agree to pay such fees and understand that they are due prior to final acceptance of my project. Further, under penalty of perjury, I declare that $I$ am duly authorized to encumber expenses on behalf of the firm listed above.

$\xrightarrow[\text { Lint Name }]{\text { La ur Spouse }}$ $\qquad$

## UTC PERMITS:

$\qquad$ Aircraft refueling vehicles
Flammable or combustible liquid pipeline operation and excavation
_- Flammable or combuatiblo liquids and tanka
_- Fruit ripening
_ Automobile wracking yard
— B Bonfires or rubble fires
_. Bowling pin or alley refinishing
_ Burning in public place
__. Candles and open flames in assembly areas
_ ${ }^{\mathbf{P}}$ Fumigation or thermal insecticidal fogging
_ Garages
_. Hazardous materials

- Hz Mat site characterization/
- Investigation report
_ Cellulose nitrate storage
$\qquad$ Combustible fiber storage
Compreiead gate, flammable
_-_Cryogens
- Dry cleaning plants
__ Dust-producing operations
-... Excavations near flammable or combuatibla liquid pipeline o
—— Hz Mac ate remediation report
_ Highly toxic pesticides
__ High-piled combustible stock
_ Junk yards
_Liquefied petroleum gases
__ Lumber yards
_- Magnesium working
_ Explosives or blatting agents
__ Mall, covered
_ Monitoring well installation
$\qquad$ Nitrate film
011 and natural gas walls
$\qquad$ Open burning
$\qquad$ Operi-flame devices in marinasOrganic coating a
$\qquad$ Ovens, industrial baking or drying _ Parade floats
_- Places of assembly
_ Radioactive materials
__ Kafrigaration equipment
__ Spraying or dipping
__ Thank vehicles
... Tints and air-supportod atructuros
__ Mire recapping
_- Waste material handing plant
__Welding and curing operations
家


## PLAN REVIEWS:

Monitoring well destruction

X Automatic Sprinkler Syatems, of heads
— Automatic Fixed Fire Extinguishing Systems (specify)

- Dry Chemical, of Nozzles $\qquad$
$\qquad$ Halon, of Nozzles
_ Ocher, explain
$\qquad$ Fire Alarm Satem
$\qquad$ Automatic Plea Detection Syaram, of detactora $\square$
_ Above Ground Tank Installation, of tanks $\qquad$ , tank capacity $\qquad$
- Above Ground Tank Removal, of tanks $\qquad$ - Lank capacity $\qquad$
_ Underground Tank Installation, of tanks $\qquad$ , tank capacity
__ Underground Tank Removal, of tanks $\qquad$ , tank capacity
Underground Tank Abandonment in Place, 1 of tank e $\qquad$ , tank capacity
$\qquad$ Underground Tank/Line Performance Teat
$\qquad$ Underground Tank Solla/Water Analytical Report
_ Ocher, explain



FIRE PROTECTION EQUIPMENT PERFORMANCE CERTIFICATE

IN ACCORDANCE WITH TITLE 19,
SUBCHAPTER 5, CALIFORNIA ADMINISTRATIVE CODE AND MUNICIPAL FIRE CODE

| ${ }^{\text {Location }} 9000$ NortHGate Mall |  |  | XAuto Sprinkler system <br> $\square$ class I - DRy standifie system <br> Class II - wet standpipe system <br> $\square$ Class III - combination standipe system <br> Class iv - combined(STANDpipe sprinkler) <br> отнER-SPECIFY $\stackrel{\text { SIFSTEM }}{ }$ |
| :---: | :---: | :---: | :---: |
| San.Rafeal: Calif 94903 |  |  |  |
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| 2. Main controlvalues leaking in Auto centeR on |  |  |  |
| $4^{\prime \prime}$ Riser, 6"RiseR |  |  |  |
| RECEIVED |  |  |  |
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| aryorsanimafall |  |  |  |
| REPAIRS MADE |  |  |  |
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| All Repaiks Made 5.20.93 |  |  |  |
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|  |  |  |  |
| centification |  |  |  |
| 1 'सHEREBY CERTIFY THAT THE FIRE PROTECTION EQUPMENT INDICATED ABOVE HAS BEEN TESTED IN ACCORDANCE WTH -the california admilitrative cooe tile 19 subchapter 5 AND THE MUNCIPAL FIRE CODE. |  | ALL NE TTTLE 19 | CESSARY MAINTENANCE AND REPAIRS HAVE BEEN MADE MPLANCE WITH THE CALIFORNIA ADMINISTRATIVE CODE SUBCHAPTER 5 AND THE MUNIIIPAL FIRE CODE. |
| INTIAL TESTING DATE $5-6.93$ |  |  | 5.20 .93 |
| SIINATURE | TTLE | SİNat |  |
| TESTING AGENCY MASTER PROTECTION CORPORATION | $\left.\left.\right\|^{\text {LICENSE No. }}\right\|^{\text {ADD }}$ |  | ${ }^{\text {PHONE }}$ |
|  | FIRE Depart | ENT USE | ONLY |
| Frik dert. Phone NUMEER | \|Nspectoor |  | MENT |

## AUTOMATIC SPRINKLER SYSTEM

CALIFORNIA CODE OF REGULATIONS, TITLE 19, SUBCHAPTER 5


| CERTIFICATION |  |
| :---: | :---: |
| I HEREBY CERTIFY THAT THE FIRE PROTECTION EQUIPMENT INDICATED AbOVE HAS BEEN TESTED IN ACCORDANCE WITH THE CALIFORNI COOE OF REGULATIONS, TITLE 19, SUBCHAPTER 5 AND THE MUNICIPA FIRE CODE. | all necessary maintenance and repairs have been made in COMPLIANCE WITH THE CALIFORNIA CODE OF REGULATIONS, TITLE 19. SUBCHAPTER 5 AND THE MUNICIPAL FIRE CODE. |
| Intial testing date | $\text { FINAL TESTNG DATI } 20.93$ |
|  |  |
| MASTER PROTECTION CORPORATION | Phone |
| FIRE DEPT. PHONENO. |  |
|  |  |




## AUTOMATIC SPRINKLER SYSTEM

## CALIFORNIA CODE OF REGULATIONS, TITLE 19, SUBCHAPTER 5




Fire Department
September 17, 1992

Mr. Jim Chisholm
Sears Roebuck \& Co. 9000 Northgate Mall
San Rafael, CA 94903
Dear Mr. Chisholm:
Based upon your request for an annual permit for the erection of a sales tent several times a year, your request has been granted if the following conditions are met for each installation:

1. Notify the Fire Department prior to the dates of the tent erection, with the days of the event and take down.
2. The Permit is for the exclusive use of Sears Roebuck, with the State Fire Marshal labeled tent you now own.
3. All other conditions apply as stated in the standards previously provided.
4. The Permit is to be renewed annually (prior to September 30).

If you have any further questions regarding this Permit, please do not hesitate to phone.

Sincerely,
ROBERT E. MARCUCCI
Fire Chief


BRADLEY R. MARK
Fire Inspector
REM:BRM:ss
Enclosure

SAN RAFAEL FIRE DEPARTMENT

PERMIT

This Permit has been issued to the following, pursuant to the conditions stipulated herein and in conformance with Uniform Fire Code, state and local ordinances.

This Permit expires when change of ownership, business name, or conditions outlined herein occur. This Permit shall be posted, visible and made available upon request by the Fire Prevention Inspector. This Permit may be revoked at any time for due cause in violation of the Uniform Fire Code.

PERMIT NO: FPB 92-1057
ADDRESS OF PROJECT: 9000 Northgate Mall
PROJECT/BUSINESS NAME: Sears Roebuck \& Co.
OWNER/CONTRACTOR: Attn: Jim Chisholm
ADDRESS:
9000 Northgate Mall
CITY, STATE, ZIP:
San Rafael, CA 94903
PHONE:


PERMIT: Tents and Air-Supported Structures
CONDITION: Article 12, UFC CONDITION: Article 32, UFC CONDITION: Title 19, CCR CONDITION: Title 24, CCR

ADDITIONAL CONDITIONS:
This permit expires Sept. 30,1993. For additional conditions refer to letter in file.

# SAN RAFAEL FIRE DEPARTMENT <br> PERMIT (Continuation) 

PERMIT NO: FPB 92-1057
PROJECT/BUSINESS NAME: Sears Roebuck \& Co.
OWNER/CONTRACTOR: Attn: Jim Chisholm
PERMIT: Tents and Air-Supported Structures
INSPECTION REQUIRED INSPECTED BY ..... DATE
$472-3670$
san rafael fire department PERMIT APPLICATION THIS IS NOT YOUR PERMIT
 Contractor's Name

Address
City, State, Zip $\qquad$ Phone No.
Mailing Address for Invoices (if different than above)
State Contractors License
San Rafael Business License $\qquad$ Expiration $\qquad$



A time keeping form will be kept to track time spent on your project. You will be charged for the actual time spent on your project to the nearest $\frac{1}{4}$ hour, with a minimum one hour charge. The Department will also charge direct and indirect costs for actual expenses incurred for consultant and/or contractual services plus overhead which may be necessary to review your project. The fee will be collected at the completion of your project, and an invoice will be mailed to you. Your project Permit will not receive final Fire Department approval until all fees are paid. The fees are due and payable upon receipt of the invoice and become overdue 30 days later, at which time a $1 / 2$ hour late fee and $1 \mathbf{1 / 2 x}$ per month interest will be charged. In addition to not issuing final approval, the Fire Department will pursue all other legal remedies for unpaid accounts. On projects that accumulate more than 3 hours (or $\$ 150$ ) in services, you will be invoiced during each month that the balance exceeds 3 hours (or $\$ 150$ ).

I have read the above statement regarding fees for this project, and $I$ understand how the fees will be calculated, agree to pay such fees and understand that they are due prior to final acceptance of my project. Further, under penalty of perjury, I declare that I am duly authorized to encumber expenses on behalf of the firm listed above.

_ Aircraft refueling vehicles
__ Aircraft repair hanger

- Automobile wrecking yard
$\qquad$ Bonfires or rubbish fires
$\qquad$ Bowling pin or alley rofindahing
$\qquad$ Burning in public place
- 

Candles and open flames in assembly areas
$\qquad$ Colluloae nitrate storage
Combustible fiber storage
$\qquad$ Compress gates, flammable
_ Cryogen a
_ Dry cleaning plants
__ Dust-producing operations

- Excavations near flammable or combuariblo liquid pipelines
__. Explosives or blasting agent

_ Flammable or combustible liquid pipeline operation and excavation
__ Flammable or combustible liquids and tanks
- Fruit ripening
- Fumigation or thermal insecticidal fogging
_- Garage
_ Hazardous materials
- Haze Mat el to characterization/ Investigation report
__ Haz Mat bite remediation report
__ Highly toxic pesticides
__ High-piled combustible stock
_... Junk yards
__ Liquefied petroleum ganesa
- Lumbar yard
__ Magneaium working
Mall, covered ${ }^{-1}$
_ Monitoring well installation
= Monitoring well destruction


## PLAN REVIEWS:

## —_Aucomatic Sprinkler Systems, of heads

__ Automatic Fixed Fire Extinguishing Systems (specify)

- Dry Chemical, of Nozzles $\qquad$
_-. Halon, of Nozzle $\qquad$
_ Other, explain
_-_ Fire Alarm System
- Automatic Fire Detection System, 1 of detectors
__ Above Ground Tank Installation, of tanks $\qquad$ , tank capacity
_ Above Ground Tank Removal, of tanks $\qquad$ , tank capacity $\qquad$ 4. ALLOTHEN CONDITIOAS
_ Underground Tank Installation, of tanks $\qquad$ , tank capacity $\qquad$ APPLY AS STATED IN
_- Underground Tank Removal, oof tanks $\qquad$ , tank capacity $\qquad$ THE STANDARD.
-. Underground Tank Abandonment in Place, 1 of tanka $\qquad$ , tank capacity
- Underground Tank/Line Performance Tout
- Underground Tank Solle/Water Analytical Report
_ Other, explain


#   

Contractor's Name

## Address

$\qquad$
City, State, Zip
Phone No. $\qquad$
Mailing Address for Invoices (if different than above)
State Contractors License $\qquad$

## Expiration

$\qquad$
San Rafael Business License $\qquad$ Expiration $\qquad$
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## UPC PERMITS:

Aircraft refueling vehiclesAircraft repair hanger_ Automobile wrecking yard
Bonfires or rubbish firesBowling pin or allay refinishingBurning in public placeCandles and open flames in assembly areas
$\qquad$ Cellulose nitrate storageCombustible fiber storageCompressed gases, flammable
$\qquad$ Cryogens
-
ry cleaning plants
-
Just-producing operations

- Excavations near flamabble or combustible liquid pipelines
__. Explosives or blasting magenta
Flammable or combustible liquid pipeline operation and excavation
x Flammable or combustible liquids and tanka Fruit ripening
Fumigation or thermal insecticidal fogging
즌 Garages
$\qquad$ Hazardous materials
— H 2 Mnt site characterization Investigation report
— Hz Mat site remediation report
Highly toxic pesticides
- 

High-piled combustible stock
_- Junk yard

- 1

Liquafiad petroleum gases

- Lumber yards
—
Magnesium working
- M

Mall, covered
__ Monitoring well installation

- Monitoring well destruction


## plan mevimis:

_ Automatic Sprinkler Systems, of hade $\qquad$
_ Automatic Fixed Fire Extinguishing Systems (specify)

- Dry Chemical, of Nozzles $\qquad$
_ Hs ion, of Nozzles $\qquad$
-. Ocher, explain
$\qquad$ Plate Alarm System
$\qquad$ Automatic Fire Detection System, of detectors $\qquad$
$\qquad$ Above Ground Tank Installation, of tanks $\qquad$ , tank capacity $\qquad$
$\qquad$ Above Ground Tank Removal, of tanks $\qquad$ , tank capacity $\qquad$ Underground Tank Installation, of tanka $\qquad$ , tank capacity $\qquad$
$\qquad$
$\qquad$ , tank capacity $\qquad$
Underground Tank Abandonment in Place, of tank $\qquad$ , tank capacity
__ Underground Tank/Line Porformance Test
__ Underground Tank Soila/Water Analytical Report:
__Ocher, explain

SAN RAFAEL FIRE DEPARTMENT
PERMIT
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This Permit expires when change of ownership, business name, or conditions outlined herein occur. This Permit shall be posted, visible and made available upon request by the Fire Prevention Inspector. This Permit may be revoked at any time for due cause in violation of the Uniform Fire Code.

PERMIT NO: FPB 92-1029
ADDRESS OF PROJECT: 9000 Northgate Mall PROJECT/BUSINESS NAME: Sears Roebuck \& Co. OWNER/CONTRACTOR: Attn: Jim Chisholm ADDRESS: 9000 Northgate Mall CITY, STATE, ZIP: San Rafael, CA 94903 PHONE: (415)-472-3670 BUSINESS PHONE:


PERMIT: Tents and Air-Supported Structures
CONDITION: Article 12, UFC
CONDITION: Article 32, UFC
CONDITION: Title 19, CCR
CONDITION: Title 24, CCR

# SAN RAFAEL FIRE DEPARTMENT <br> P ERMIT (Continuation) 

PERMIT NO: FPB ..... 92-1029
PROJECT/BUSINESS NAME: Sears Roebuck \& Co.
OWNER/CONTRACTOR: Attn: Jim Chisholm
PERMIT: Tents and Air-Supported Structures INSPECTION REQUIRED INSPECTED BY ..... DATE

# SAN RAFAEL. FIRE DEPARTMENT <br> PERMIT APPLICATION <br> THIS IS NOT YOUR PERMIT 

Address of Project

## Contractor's Name

Address


Mailing Address for Invoices (if different than above)
State Contractors License $\qquad$ Expiration
San Rafael, Business License $\qquad$ Expiration $\qquad$


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-
Aircraft refueling vehiclesAircraft repair hangarAutomobile wrecking yardBonfires or rubbish firesBowling pin or alloy refinishingBurning in public place

- Candles and open flames in assembly areasCellulose nitrate storageCombustible fiber storageCompressed gases, flammable
$\qquad$ Cryogens
$\qquad$ Dry cleaning plants
-Dust-producing operations
- Excavations near flammable or combuatiblo liquid pipeline e
__ Explosives or blasting aganta


## - . . $\cdot$ =



Placable or combuotible liquid pipeline
operation and excavation operation and excavation
__ Flammable or combustible liquid and tanka
_ Fruit ripening
__ Fumigation or thermal insecticidal fogging
_ Garage
— Hazardous materials

- Hz Mat gite characterization/ Investigation report
$\qquad$ Ha z Mat alta remediation report

> _ Highly toxic pesticidoa
__ High-piled combustible stock
__ Junk yard
EL Liquefied petroleum gases

- Lumber garda
_ Mngnarium working
__ Mall, covered
__ Monitoring wall installation
=. Monitoring well doatruction

PLAN RETVIKMS:
__ Automatic Sprinkler Systems, of hands $\qquad$
_ Automatic Plead Fire Extinguishing Syatoma (specify)

- Dry Chemical, of Nozzian
__ Halon, of Nozzles $\qquad$ - Other, explain.
$\qquad$ Fife Alarm System
- Automatic Fire Detection System, of detectors
- Above Ground Tank Installation, of tanks $\qquad$ , tank capacity
- Above Ground Tank Removal, of tanks $\qquad$ , tank capacity
$\qquad$
_ Underground Tank Installation, of tanka $\qquad$ , tank capacity
$\qquad$ , tank capacity
__ Underground Tank Abandonment In Place, of tanka
_ Underground Tank/Line Performance Teat
__ Underground Tank Soila/Watar Analytical Report
__ Ocher, explain



## MAYOR

LAWRENCE E. MULRYAN
COUNCIL MEMBERS
ALBERT J. BORO
DOROTHY L. GREENER
MICHAEL A. SHIPPEY
JOAN C. THAYER

# Fire Department 

```
January 24, 1992
```

Mr. Jim Chisholm
Sears
9000 Northgate Mall
San Rafael, CA 34903
Dear Mr. Chisholm:
In looking through the file, I see there is no permit to utilize flammable or combustible liquids. Also the permit to operate a garage is not on file.

On the application form, I have check these two areas. If there are others related to the shop, please mark those areas, i.e., compressed gasses, flammables. There is only one fee for the application of more than one permit.

Please return the application to the San Rafael Fire Department, 1039 C Street, San Rafael, CA 94901 within the next two weeks. Thank you.

Sincerely,
ROBERT E. MARCUCCI
Fire Chief

BRADLEY R! MARK
Fire Inspector
REM:BRM:ss
Enclosure

MAYOR

Fire Department: Phone (415) 485-3308; FAX (415)453-1627
SAN RAFAEL FIRE DEPARTMENT

## PERMIT

This Permit has been issued to the following, pursuant to the conditions stiuplated herein and in conformance with Uniform Fire Code, state' and local ordinances.

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PERMIT NO:
CATEGORY:

ADDRESS OF PROJECT: PROJECT/BUSINESS NAME: OWNER/CONTRACTOR:
ADDRESS:
CITY, STATE, ZIP:
PHONE: (510)-834-2333

FPB 91-2170
Commercial
9000 Northgate Mall
Sears
Scott Co.
1919 Market St.
Oakland, CA 94607
BUSINESS PHONE:


SPRINKLER SYSTEMS

INSPECTION
PLANS REVIEWED
UNDERGROUND INSPECTION
UNDERGROUND HYDRO
UNDERGROUND FLUSH
OVERHEAD HYDRO
OVERHEAD INSPECTION
ALARM INSPECTION
ALARM TEST

## BY

N/A
N/A
NA
N/A
N/A
brr 12/09/91
N/A
N/A
U.L. CERT. ISSUED:

COMMENTS: This permit is for three separate locations. Each project will need new permits.

# - 91-2170 

SAN rafael fire department
PERMIT APPLICATION
50693-63-4002

|  | THIS |  |
| :---: | :---: | :---: |
|  | 9000 North Gate Mall | [DEC I 61991 |
| Address of Project Project/Business Name | Sears San Rafael | FIRE OHMT $\qquad$ CITYOPSAN RAFAEL |
| Contractor's Name | Scott Co. |  |
| Address | 1919 Market St. |  |
| City, State, | Oakland, Ca. 94607 | 834.2333 ext. 3382 |

Mailing Address for Invoices (if different than above) 1919 Market St. Oakland, Ca. 94607

State Contractors License \& 184480
San Rafael Business License 022309
Expiration may ol, 1992
Expiration December 31, 1991

A time keeping form will be kept to track time spent on your project: You will be charged for the actual time spent on your project to the nearest $\frac{1}{4}$ hour, with a minimum one hour charge. The Department will also charge direct and indirect costs for actual expenses incurred for consultant and/or contractual services plus overhead which may be necessary to review your project. The fee will be collected at the completion of your project, and an invoice will be mailed to you. Your project Permit will not receive final Fire Department approval until all fees are paid. The fees are due and payable upon receipt of the invoice and become overdue 30 days later, at which time a $1 / 2$ hour late fee and $11 / 2 \%$ per month interest will be charged. In addition to not issuing final approval, the Fire Department will pursue all other legal remedies for unpaid accounts. On projects that accumulate more than 3 hours (or $\$ 150$ ) in services, you will be invoiced during each month that the balance exceeds 3 hours (or $\$ 150$ ).

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$\frac{\text { Plumbing Foreman }}{\text { Title }}$ $\qquad$ $\frac{\text { December } 12,1991}{\text { Date }}$
UFC PERMTS:
$\qquad$ Alrcraft refueling vohicios
_Alrcraft repair hanger
__ Automobile wrecking yard
_- Bonfiras or rubbleh fires
_ Bowilng pin or allay refiniahing
Burning in public place

- Candlea and open flames in assambly areas
_ Cellulose nitrate storage
__ Combustible flber atorage
__ Comprosesed gases, flaumable
__ Cryogens
_ Dry cloaning planta
__ Duat-producing operations
- Excavations near flammable or
combustible líquid plpolinea
___ Explosives or blasting agento

| Flammable or combustible liquid plpeline oparation and excavation |  |
| :---: | :---: |
| Plamable or combustible liquids and tanks <br> Pruit ripening |  |
|  |  |
| - | Pumigation or thermal insecticidal fogging |
| - | Garages |
| - | Hazardous materials |
| - | Haz Mat site characterization/ Investigation report |
| - | Haz Mat site remediaction roport |
| - | Highly toxic pesticides |
| - | High-pilad combustible stock |
| - | Junk yarde |
| - | Liquefied petroleum gasea |
|  | Lumber yarda |
|  | Magnesium working |
|  | Mall, covarad |
|  | Monitoring well inatallation |
|  | Monitoring well dastruction |

$\qquad$ Nitrate film
$\qquad$ Oil and natural gas walls

- Open burning
- Opan-flamo dovices in marinas
__ Organic coatinge
__ Ovens, industrial baking or drying
- Parado floate
__ Places of assembly
_- Radioactive materials
__ Refrigeration equipment
_ Spraying or dipping
- Tank vahicles
__Tents and alr-supported structures
__ Tire rocapping
.-. Waate material handling plant
___Welding and cutting operations


## PLAN REVIEMS:

X Automatic Sprinkler Syatoms, 1 of hoads 3 seperate areas less than 10 each area.
__ Automatic Fixed Fire Extinguishing Systems (specify)

- Dry Chemical, of Nozzles $\qquad$
- Halon, of Nozzles $\qquad$
__ Other, explain
_ Pire Alarm System
_ Automatic Fire Detection Syatem, of detectors $\qquad$
-. Above Ground Tank Installation, of tanks $\qquad$ , tank capacity $\qquad$
- Above Ground Tank Removal, of tanks $\qquad$ tank capacity $\qquad$
__ Underground Tank Installation, of tanks $\qquad$ tank capacity $\qquad$
__ Underground Tank Removal, of tanks $\qquad$ , tank capacity
_. Undorground Tank Abandonment in Plnce, of tanke $\qquad$ , tank capacity
-. Underground Tank/Line Performanca Test
_- Undorground Tank Solla/Water Analytical Roport
___ Other, explatn


## October 14, 1991

| To: | Captain Tuohy |
| :--- | :--- |
| From: | Bradley Mark |
| Subject: | Sears Automotive |
|  | Sears Second Floor |

Inspection Date: October 9, $1 \hat{991}$

## Automotive:

110\%3. Fix emergency lights in West stairwell Q 6 -4. Apply for permit.
$\theta \sqrt{-} \left\lvert\, \frac{5 i l}{\text { Lighting along west, new parts sprinklers. }}\right.$
Second Floor: Sprinkler contractor must contackthe Fire Department prior to modifications for a permit.
Sprinklers have been installed in the eyeglass area and the furniture area.
1.0.922. Label manual val us. Signs. Carpet storagestarea ceiping has holes. Much work has been completed.

Items Completed:
\#31

\#51
\#68
\#61

REINSPECTION DATE: November 6, 1991
A Pre-Citation will be issued if items not completed.

$$
\begin{aligned}
& \text { 1-24-92- AT THIS TIME ALL ABOUE VIOLATIONS } \\
& \text { HAVE BEEN REARED AN APERY APPLICATION } \\
& \text { HAS BEEN SENT TO MR CHISIAOM. }
\end{aligned}
$$

CITY OF SAN RAFAEL.
FIRE PREVENTION BUREAU
INSPECTION NOTICE
JOB LOCATION AT: SEARS AUTOMOTIVE,

Your job was inspected today and the following corrections are required. When the corrections have been made, call (415) 485-3308 for a re-inspection. Renirppet....
(1) HANG ExTINGUISHEPS-1 IN worxarEA
gi inunise Recontakep cousin?


 AlD ETA 1
$\qquad$
$\qquad$
$\qquad$
$\qquad$ collod-3-32 -
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$


Fire Department
DO NOT REMOVE THIS NOTICE
$11.7 .918: 22$ 2ND call - 4 H MG G

!rio. C ri
CITY OF SAN RAFAEL
FIRE PREVENTION BUREAU
INSPECTION NOTICE
JOB LOCATION AT: SEARS MAIN STOR L,
Your job was inspected today and the following corrections are required. When the corrections have been made, call (415) 485-3308 for a re-inspection.

Reinspect-
(1) SPRINKLER AddiTIon in FURIOITURE 0191 An RA BACK POOM ll as NOT correct livstallep. have
$1-10-9.2$
BYREDEAT MAyBe NDTALedOxNNOeDFO
(2) IABEL MAMUAL UALDESABP YRASAL CHMTE (SPRinkler valued). SIGNS.
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

Date: $10 \cdot 9.91$ By: $\qquad$
Fire Department
DO NOT REMOVE THIS NOTICE

MAYOR
LaWRENCE E. MULRYAN
COUNCIL MEMBERS ALBERT J. BOR DOROTHY L. BRENNER MICHAEL A SHIPPEY JOAN C. THAYER

SAN RAFAEL FIRE DEPARTMENT
PERMIT
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PERMIT NO: FPB 91-1033
ADDRESS OF PROJECT: 9000 Northgate Mall PROJECT/BUSINESS NAME: Sears
OWNER/CONTRACTOR:
ADDRESS:
CITY, STATE, ZIP:
PHONE: (415)-472-3670
Attn: Jim Chisholm
9000 Northgate Mall
San Rafael, CA 94903
BUSINESS PHONE:


PERMIT: Mall, Covered
CONDITION: Article 35, UFC
Vehicle on display

SAN RAFAEL FIRE DEPARTMENT
$9 /-1033$
PERMIT APPLICATION
THIS IS NOT YOUR PERMIT
address of Project 9000 Norrigatiz Mack San Raffle Ca ic
Project/Business Name $\qquad$ Contractor's Name $\qquad$
Address
City, State, Zip $\qquad$ Phone No. $\qquad$
Mailing Address for Invoices (if different than above)
State Contractors License $\qquad$ Expiration $\qquad$ $+$

San Rafael Business License $\qquad$ Expiration $\qquad$
A time keeping form will be kept to track time spent on your project. You will be charged for the actual time spent on your project to the nearest hour, with a minimum one hour charge. The Department will also charge direct and indirect costs for actual expenses incurred for consultant and/or contractual services plus overhead which may be necessary to review your project. The fee will be collected at the completion of your project, and an invoice will be mailed to you. Your project Permit will not receive final Fire Department approval until all fees are paid. The fees are due and payable upon receipt of the invoice and become overdue 30 days later, at which time a $1 / 2$ hour late fee and $11 / 2 \%$ per month interest will be charged. In addition to not issuing final approval, the Fire Department will pursue all other legal remedies for unpaid accounts. On projects that accumulate more than 3 hours (or $\$ 150$ ) in. services, you will be invoiced during each month that the balance exceeds 3 hours (or $\$ 150$ ).

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UPC PKRITIS:
$\qquad$ Aircraft refueling vehiclesAircraft repair hangerAutomobile wrecking yard
$\qquad$ Bonfires or rubbish fires
__ Bowling pin or alley refinishing
$\qquad$ Burning in public place
_-. Candles and open flames in assembly areas
$\qquad$ Cellulose nitrate storageCombustible fiber storageCompressed gases, flammable
Cryogens
$\qquad$ Dry cleaning plants
-
Duat-producing operations
-_ Excavations near flammable or combuatible liquid pipelines
$\qquad$ Explosives or blasting agent a


Title

- Flammable or combustible liquid pipeline operation and excavation
$\qquad$
_Garage
- Hazardous materials
- Hz Mat site characterization/ Investigation report
$\qquad$ Haze Mat ate remediation report
$\qquad$ Highly toxic pesticides
$\qquad$ High-piled combustible stock
$\qquad$ Junk yard
Liquefied petroleum gases
- 

Lumber garda
Magnesium working
Mall, covered - UBHCCE
Monitoring wall installation
Monitoring wall destruction

PLAN REVIEwS:
$\qquad$ Automatic Sprinkler Syateme, of hade $\qquad$
Automatic Fixed Fire Extinguishing Systems (apacify)
_- Dry Chemical, of Nozzles $\qquad$
_Halon, of Nozzles $\qquad$
_ Other, explain
$\qquad$ Fire Alarm System
$\qquad$ Automatic Fire Detection System, of detectors
_- Above Ground Tank Installation, of tanks $\qquad$ , tank capacity $\qquad$
_... Above Ground Tank Removal, of tanks $\qquad$ tank capacity $\qquad$ _ Underground Tank Installation, of tanks $\qquad$ , tank capacity $\qquad$

- Underground Tank Removal, of tanks $\qquad$ , tank capacity $\qquad$
__ Underground Tank Abandonment in Place, of tanks $\qquad$ , tank capacity
$\qquad$ Underground Tank/Line Performance Teat
$\qquad$ Underground Tank Solle/Water Analytical Report
_ Other, explain


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PERMIT NO: FPB 91-1029
ADDRESS OF PROJECT: 9000 Northgate Mall
PROJECT/BUSINESS NAME: Sears Roebuck
OWNER/CONTRACTOR: Sears Roebuck
ADDRESS:
9000 Northgate Mall
CITY, STATE, ZIP: San Rafael, CA 94903
PHONE: (415)-472-3670 BUSINESS PHONE:


PERMIT: Tents and Air-Supported Structures
CONDITION: Article 12, UFC CONDITION: Article 32, UFC
CONDITION: Title 19, CR
CONDITION: Title 24, CR

# san rafael fire department 



Contractor's Name
Address $\qquad$
City, State, Zip $\square$ 94903
City, State, Zip
Mailing Address for Invoices (if different than above)
State Contractors License : $\qquad$

## Expiration

$\qquad$
San Rafael Business License $\qquad$ Expiration $\qquad$
A time keeping form will be kept to track time spent on your project. You will be charged for the actual time spent on your project to the nearest $\frac{1}{4}$ hour, with a minimum one hour charge. The Department will also charge direct and indirect costs for actual expenses incurred for consultant and/or contractual services plus overhead which may be necessary to review your project. The fee will be collected at the completion of your project, and an invoice will be mailed to you. Your project Permit will not receive final Fire Department approval until all fees are paid. The fees are due and payable upon receipt of the invoice and become overdue 30 days later, at which time a $1 / 2$ hour late fee and $11 / 2 \%$ per month interest will be charged. In addition to not issuing final approval, the Fire Department will pursue all other legal remedies for unpaid accounts. On projects that accumulate more than 3 hours (or $\$ 150$ ) in. services, you will be invoiced during each month that the balance exceeds 3 hours (or $\$ 150$ ).

I have read the above statement regarding fees for this project, and I understand how the fees will be calculated, agree to pay such fees and understand that they are due prior to final acceptance of my project. Further, under penalty of perjury, I declare that I am duly authorized to encumber expenses on behalf of the firm listed above.


## UTC PERMITS:

Aircraft refueling vehicles
Aircraft repair hanger
__ Automobile wrecking yard
__ Bonfires or rubbish fires
_ Bowling pin or alley refinishing
$\qquad$ Burning in public place
_- Candles and open flames in assembly areas Cellulose nitrate storage Combustible fiber storage
$\qquad$ Compressed gases, flammable
Cryogens
Dry cleaning plants
__ Dust-producing operations

- Excavations near flammable or combustible liquid pipelines
_ Explosives or blasting agate
- $\begin{gathered}\text { Flammable or combustible } \\ \text { Operation and } \\ \text { excavation }\end{gathered}$ liquid pipeline
_ Playable or combustible liquids and tanka
_ Fruit ripening
__ Fumigation or thermal insecticidal fogging
- Garages
_- Hazardous material a
- Hay Mat of te characterization/

Investigation report
— Haze Mat bite remediation report
__ Highly toxic pesticides
__ High-piled combustible stock
_ Junk garda
__ Liquefied petroleum gases

- Lumber yards
__ Magnesium working
__ Mall, covered
_ Monitoring well installation
_ Monitoring well destruction

PLAN RRVIKMS:
_. Automatic Sprinkler Syatama, of heads
_- Automatic Fixed Fire Extinguishing Systems (specify)
_ Dry Chemical, of Nozzles $\qquad$
_ Halon, of Nozzles $\qquad$
__ Other, explain
$\qquad$ Pies Alarm System
$\qquad$ Automatic Fire Detection System, of detectors $\qquad$
_. Above Ground Tank Installation, of tanks $\qquad$ , tank capacity $\qquad$
Above Ground Tank Removal, 'of tanks $\qquad$ tank capacity $\qquad$
_ Underground Tank Installation, of tanks $\qquad$ , tank capacity
_. Underground Tank Removal, of tank e $\qquad$ tank capacity
$\qquad$
$\qquad$
$\qquad$ , tank capacity
$\qquad$ Underground Tank/Line Performance Teat
$\qquad$ Underground Tank Solla/Water Analytical Report
$\qquad$ Other, explain


MAYOR
LAWRENCE E, MULRYAN
COUNCIL MEMBERS ALBERT J. BOR DOAOTHY L. BREINER MICHAEL A. SHIPPEY JOAN C. THAYEA

This Permit has been issued to the following, pursuant to the conditions stipulated herein and in conformance with Uniform Fire Code, state and local ordinances.

This Permit expires when change of ownership, business name, or conditions outlined herein occur. This Permit shall be posted, visible and made available upon request by the Fire Prevention Inspector. This Permit may be revoked at any time for due cause in violation of the Uniform Fire Code.

FERMIT NO: FFB 91-1008
ADDRESS OF PROJECT: 9000 Northgate Mall
PRDJECT/BUSINESS NAME: Sears Roebuck OWNER/CONTRACTOR: ADDRESS:
CITY, STATE, RIF:
Attn: Keith Hooper, Sales Mgr91100
9000 North gate Mall
PHONE: (415)-472-3670
San Rafael, CA 94903 BUSINESS PHONE:


FERMIT: Tents and Air-Supported Structures
CONDITION: Article $1 E$, UPC
CONDITION: Article $3 E$, UPC
CONDITION: Title 19, CCR
CONDITION: Title 24, CCR


## SAN RAFAEL FIRE DEPARTmENT PERMIT APPLICATION THIS IS NOT YOUR PERMIT

Address of Project GOAO NonthgatLE Mali Project/Buginess Name
Business Phone No. SlieR Rocibuck

Contractor's Name
No. $\frac{472-3670}{A C \operatorname{Ardtan} y}$ TENT AND CANVAS

 Phone No. $454-684901472-6771$

## State Contractors License

$\qquad$

## Expiration

Expiration $\qquad$
San Rafael Business License $\ddagger$ $\qquad$
A time keeping form will be kept to track time spent on your project. You will be charged for the actual time spent on your project to the nearest $1 / 4$ hours, with a minimum one hour charge. The fee will be collected at the completion of your project, and an invoice will all foes are paid. Your project Permit will not receive final fire Department approval until all fees are paid. The fees are due and payable upon receipt of the invoice and become overdue 30 days later, at which time a $1 / 2$ hour late fee and $1.1 / 2 \mathrm{z}$ per month interest will be charged. In addition to not issuing final approval, the fire Department will pursue ali other legal remedies for unpaid accounts. On projects that accumulate more than hours in services, you will be invoiced during each month that the balance exceeds 3 hours.
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$\qquad$ Aircraft fapair hanger Automobile wrecking yard

- Donfirab or rubbish fires
- Bowing pin ar alley rofintohing
_-. Burning in public place
- Candhoo and open flame e in
_ Collulese alcrafa forage
- Combuatibia fiber storage
__- Comprasead gabar, flammable
.... Cryogens
- 

Dry clashing plate:
-
Dust-producing operations

- Excnvariong wear flamabio or
_- Explosiváa ur blatting agent

- Monitoring well destruction
plan minters:
$\qquad$
.. Automatic Sprinkler Sysctma, f of hand
—— Automate Fixed Fire Extinguishing Systems (specify)
_- Dry Chemical, O of Nozzles $\qquad$
- Halon, of Hozeleg $\qquad$


## $\qquad$ Other, explain

## __ Pita Alarm Syotam

_. Automatic Pisa Detection Syotem, of detectors
__ Above Ground Tank Inacaldation, of tanka $\qquad$ , tank capactry $\qquad$
-.. Above Ground Tank Removal, of tanks $\qquad$ , tank capacity $\qquad$
— Underground Tank Installation, of tank e

- Underground Tank Removal, of tanks $\qquad$ , tank eapreity
$\qquad$
_ Undorground Tank Abandonment in Place, of cankn $\qquad$ , Lank capacity
- Underground Tank/Lina Performance Test
- Underground Tank Soina/Water Analytical Report
_-. Other, explatu
2.4.12. 91 08:12 PM *SEARS SAN RAFAEL CA. PO2


## Alta. SAMQ0N. <br> FTPLET



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## CONTROL NO.

CUSTOMER ORDER NO.
CUSTOMER INVOICE NO.
YARDS OR QUANTITY
COLOR_SHITE
STYLE TENT
OATE PROCESSED_4/12/91

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Address of Project 9000 Northgate Mall
Project/Business Name $\qquad$
Type of Permit UFC, Welding/Cutting_ Permit No. FPB 91-028
Contractors Name Operations

$\qquad$ Phone No. $492=8115$

## 



Date $3 / \cos$
 Conditions:


Application
Complete
 Incomplete* $\qquad$ Date $\qquad$ *

$\square$

tach block represents $\frac{1}{4}$ hour -- Codes: 1 -Plan Review, 2 - Field inspection, 3 - Cancellation, 4 - U cher


# SAN RAPAEL FIRE DEPARTMENT <br> PERMIT APPLICATION <br> THIS IS NOT YOUR PERMIT 

RECEIVED
FEB 281991
Address of Project 9000 Northgate Mall, San Rafael, CA 94903
Project/Business Name Sears Roebucli \& Co. $8 / 08$ CIT OFEDANRAFAGL
Business Phone No. (415) 492-8115


City, State, Zip San Rafael, CA 94903
Phone No. (707) 492-81.15
State Contractors License 1428 C
San Rafael Business License \# 012120

## Expiration Chicago Towers Expiration 12/31/91

A time keeping form will be kept to track time spent on your project. You will be charged for the actual time spent on your project to the nearest $1 / 4$ hours, with a minimum one hour charge. The fee will be collected at the completion of your project, and an invoice will be mailed to you, Your project Permit will not receive final Fire Department approval until all fees are paid. The fees are due and payable upon receipt of the invoice and become overdue 30 days later, at which time a $1 / 2$ hour late fee and $1 / 2 \%$ per month interest will be charged. In addition to not issuing final approval, the Fire Department will pursue all other legal remedies for unpaid accounts. On projects that accumulate more than 3 hours in services, you will be involced during each month that the balance exceeds 3 hours.

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UFC PKRMTS:
$\qquad$ Alccraft rofuoling vehiclesAlrcraft repair hangerAutomobile wrecking yard
$\qquad$ Bonfiras or rubbish fires
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Cellulose nitrato atorage Combustible fiber storage Compressed gases, flammable
$\qquad$ CryogensDry cleaning plants
$\qquad$ Dust-producing oparations

- Excavationa noar flammable or combustible liquid pipelinea
$\qquad$ Explosivos or blasting agents

_ Nitrate film
$0: 1$ and natural gas wells
$\qquad$ Open burning
$\qquad$ Opon-flame devices in marinas
$\qquad$ Organic coatingoOvens, industrial baking or drying
__ Parade floatsPlaces of assemblyRadioactive materialeRefrigeration equipment
__ Spraying or dipping
_- Tank vohicles
_ Tente and alr-supportod structures
- Tire recapping

7 Waate material handling plant
X Wolding and cutting oparations
Moniforing wall installation
$\qquad$
__ Monitoring well dastruction
PLAN REVIKNS:
$\qquad$ Automatic Sprinkler Systems, of heads
_... Automatic Fixad Fire Extinguishing Systems (apacify)
$\qquad$ Dry Chemical, of Nozzles
__ Halon, 1 of Nozzles $\qquad$

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$\qquad$ Fife Alarti Sybtem
— Automatic Plife Detection Syatem, of detectors $\qquad$
- Above Ground Tank Installation, of tanka $\qquad$ , tank capacity $\qquad$
_ Above Ground Tank Removal, of tanks $\qquad$ , tank capacity $\qquad$
Underground Tank Installation, of tanks $\qquad$ , tank capacity
_ Underground Tank Removal, of tanka $\qquad$ , tank capacity
$\qquad$
— Underground Tank Abandonment in Place, of tanke $\qquad$ , tank capacity
_ Underground Tank/Line Performance Teat
- Underground Tank Soila/Water Analytical Report
_ Ocher, explain


# B Imam an 

$\qquad$ FM $\qquad$ Refer to FPB
At the time of the inspection those items marked in columns 1.2 or 3 were found to be in violation and shall be corrected immediately. Re-inspections occur in approximate two week intervals. Items marked under NA or OK were either not applicable or were in compliance at the time of the inspection.
B-2:General Businesses - office, wholesale and retail stores, factories; workshops using materials not highly flammable or combustible, drinking/dining establishments, school rooms for those beyond the 12 th grade', for less than 50 people, wóodworking'and cabinet shops which are owner operated or where not more than one employee is operating one piece of equipment or'appliance.'

GENERAL REQUIREMENTS AND SPECIAL HAZARDS

- Install approved address identification
* 2. Individual workstation trash cans shall be metal or approved equal.
* 3. "Trash cans used for collection shall be metal or approved equal with a lid

5.     - Remove accumulation of waste material on exterior of building.
6. Maintain 30 " clearance of combustibles to heat producing appliances
7. Maintain all area or occupancy separation walls and draft stops.
8. Maintain in operable condition and remove all obstructions to fire/smoke doors and fire dampers

* 14. Keys needed for access to all portions of bulling are current and in knox Box. If


## EXITING REQUIREMENTS, BASED ON AN OCCUPANT LOAD FACTOR OF ONE PERSON FOR EVERY


=
square feet -offices
30 square feet - retail shops (ground floor). -
50 square feet-retail shops (upper floors), library, locker areas, etc on

- 20 square feet -college classrooms



## FIRE PROTECTION EQUIPMENT

45. One 2A10BC fire extinguisher shall be provided for every 8.000 sqdtit with $75^{\prime \%}$ maximum travel distance $\qquad$

46. Extinguishers shall be easily accessible, wall-mounted ad height not less than 4 or more than 5 from floor:
47. Extinguishers shall be serviced annually, after, use, and when gauge indicates recharge

48. All sprinkler valves shall be locked in open position, accessible; and unobstructed.
49. Fire Department connection caps in place and work freely
50. Exterior exposed portions of systems that are not brass or galvanized shall be painted with rust preventative paint
51. Storage shall be maintained at least $18^{\prime \prime}$ below sprinkler heads


* 61. Maintain systems as follows:

Address $\qquad$
 Business Name SEAKS AOTOMOTIVE FP. 13 $\qquad$
Issued By: $\qquad$
 At the time of the inspection those items marked in columns 1,2 or 3 were found to be in violation and shall be corrected immediately. Re-inspections occur in approximate two week intervals. Items marked under NA or OK were either not applicable or were in compliance at the time of the inspection.
B-1: Gasoline service stations or garages with no repair work using open flame; welding, or flammable liquids, repair garages which are owner operated or where not more than one employee is repairing one vehicle at any one time.
$\mathrm{H}-2$ : Locations involving the storage, handling, use or sale of flammable or combustible liquids exceeding the amounts in Table 9-A of the Uniform Building Code. $\mathrm{H}-4$ : Garages with automotive repair using open flame, welding, or flammable liquids not classified as $\mathrm{B}-1$.

## general requirements and special hazards

1. Install approved address identification.
2. Individual work station trash cans shall be metal or approved equal.
3. Trash cans used for collection shall be metal or approved equal with a lid.
4. Trash cans used for oily rags shall be metal with a self closing lid.
5. Remove accumulation of waste material on exterior of building.
6. Maintain 30 " clearance of combustibles to heat producing appliances.
7. A 1 hr . occupancy separation wall is required between a $\mathrm{B}-1 ; \mathrm{H}-2 ; \mathrm{H} \div 4$ and any other group.
8. Maintain all area or occupancy separation walls and draft stops. if $\{7$
9. Maintain in operable condition and remove all obstructions toffire/smoke doors and fire dampers.
10. Keys needed for access to all portions of building are current and in Knox-Box.
11. No smoking is premitted in work area and "No Smoking" signs are required.

## exiting heoulrements. based on an occupant load factor of one person for every:

 100 square feat.17. Two exits required if occupant load exceeds 50 (except offices).
18. Two exits required if over 200 square feet (H occupancies).
19. Two exits required from second floor if occupant load exceeds to
20. Two exits required from all basements and above the second floor
21. Two exits required from Mezzanines larger than 2000 square feet or 60 feet in any direction. -
22. When two exits are required they must be separated by $1 / 2$ of the diagonal distance of the room. .
23. Maximum distanct to an exit is $75^{\prime}(\mathrm{H}-2$ only).
24. Maximum distance to an exit is $150^{\prime}$ (unsprinklered buildings) or $200^{\prime}$ (sprinklered buildings).
25. Dead end corridors may not exceed $20^{\prime}$.
26. Exit doors shall swing in the direction of exit travel in all H occupancies.
27. If occupant load is over 50 , doors must swing out; if over 100 they must only swing out

28. ' Exit doors and exit paths shall not be obstructed
29. No storage beneath enclosed stairs unless protected by 1 hr . construction.
30. If occupant load exceeds 100 , all exits except the main entrance shall have exit -signs.
31. If occupant load exceeds 100, all exits signs shall be eliminated on a separate circuit (not $\mathrm{B}-1$ )

All exit paths shall be lighted at all times that the building is occupied If separate circuits are required for the exit signs


## FIRE PROTECTION EQUIPMENT

46. B-1's shall have minimum 2A 20BC within 75 ft . from all portions of the building 'including pumps,
47. $H$-2's and $H-4$ 's shall have minimum $40 B C$ within 30 ft or 80 BC , within' 50 ft: and must have at least a 2 A rating
48. Extinguishers shall be easily accessible, wall mounted at a height not less than $4^{\prime \prime}$ or more than $5^{j}$ from floor.
551) Extinguishers shall be serviced annually, after use, and when gauge indicates recharge. 1.4 ny : 60 ve e
52. All spraying operations shall be in an approved spray booth with an approved extinguishing system.
53.- H-2 occupancies larger than 1500 sq . ft. shall have sprinkler system installed.


53. Fire Department connection caps in place and work freely
54. Exterior exposed portions of systems that are not brass or galvanized shall be painted with rust preventative paint:
55. Storage shall be maintained at least 18"' below sprinkler heads.
56. Storage shall be maintained at least 24 " below ceiling in'unsprinklered buildings.
57. Maintain systems as follows:




## 




Semi-annuálly

07. Cords shall not be affixed to or extended through walls, célingit floors or under doors, nor subject to physical damage .o fie

68 Maintain 30" clearance fronting and around electrical control paries.
69. Electrical main and sub-panels shall be labeled as to area solved and not taped "on" position
70. Electrical appliances, fixtures and equipment shall be listed andiapproved for the type of a wise:
71. Electrical motors shall be maintained free from accumulated oil dirt and other debris:

## FLAMMABLE LIQUIDS

74. Discontinue use of liquids with flash point bélow $110^{\circ} \mathrm{F}$ for cleaning purposes
75. No storage of class 1A liquids in basements
76. Dispensing class 1 and II liquids by suction pump only and properly grounded:
77. Dispenser nozzles shall not extend within 5 ', of any building: g opening.
78. Pumps shall be located not less than 10 from any building, and on islands or protected by posts.
79. Emergency shut-off switch required on exterior of building within $75^{\prime}$ but not closer than $15^{\prime}$ from pumps. Switches shall be designated "Emergency Pump Shut-Off"
80. Devices capable of igniting flammable vapors, such as êlectric motors or heating appliances; still be installed 18 " from floor.
81. Where flammable vapors are present, devices such as welders, torches or grinders are not permitted, 1
82. Parts basins shall not use liquids with flash points below $110^{\circ}$ F and shall have an automatic closing ld when exposed to fire

## PERMITS ARE REQUIRED OR COMPLIANCE WITH POSTED PERMIT

(85) To operate a repair garage:-
86. To do spray finishing using flammable liquids.

TR To store in excess of 5 gallons of flammable liquids inside or 10 gallons outside. $\operatorname{Mriz}$
To store in excess of 25 gallons of combustible liquids inside or 60 gallons outside.
89. For welding or cutting torch operations
90. For above ground flammable liquids storage tanks.
93. To have an LPG tank. in excess of 120 water gallons.
94. To store hazardous materials in excess of 100 lbs . solid, 55 gallons liquid or 1500 cu . ft

ZND FLOOR
TRaset eltate Sprinkru Dobes neene sitans.

Holes in ceilinge CARPGAREA-FURNISHINGS AR AOAD Feyte Glassey
Finnituric

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& \text { LABCL MANUAL value. } \\
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\end{aligned}
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## PERMIT

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Address of Project 900 Northgate Mall
Project/Business Name $\qquad$


Contractors Name $\qquad$
Address $\qquad$



 Application
Complete $\qquad$ Incomplete* $\qquad$ Date $\qquad$
*


tach block represents $\frac{i}{4}$ hour -- Codes: I-Plan Review, 2 - Field inspection, 3 - Cancellation, 4 - Uther

## UNIFORM FIRE CODE PERMITS




A time keeping form will be kept to track time spent on your project. You will be charged for the actual time spent on your project to the nearest $1 / 4$ hours, with a minimum one hour charge. The fee will be collected at the completion of your project, and an invoice will be mailed to you. Your project Permit will not receive final fire Department approval until all fees are paid. The fees are due and payable upon receipt of the invoice and become overdue 30 days later, at which time a $1 / 2$ hour late fee and $1 / 2 \%$ per month interest will be charged. In addition to not issuing final approval, the Fire Department will pursue all other legal remedies for unpaid accounts. On projects that accumulate more than 3 hours in services, you will be invoiced during each month that the balance exceeds 3 hours.
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## UPC PKRMTIS:

_ Aircraft rafueling vehiclasAlrcraft repair hanger Automobile wrecking yard
___ Bonfires or rubblsh fires
$\qquad$ Bowling pin or alley refinishing
$\qquad$ Burning in public place

- Candlea and open flamos in ansembly areab
$\qquad$ Collulose nitrate atorage Combuatible fiber atorage
$\qquad$ Comprosed gasea, flammable
__Cryogena
- Dry cleaning planta
__ Dust-producing operationa
- Excavationa near flammabla or combuatible liquid pipolines
_ Exploaives or blanting agents
- Plammable or combuatible 1iquid pipeline
_ Plammable or combuetible liquida and tanke
_ Pruit ripening
__ Pumigation or thermal inoocticidal fogging
__Garagea
- Hazardous materiala
- Haz Mat oite charactarization/
__ Haz Mat sita remediation report
_ Highly toxic pesticides
__ High-piled combuatible atock
_ Junk yarda
__ Liquafied petroleum gazee
_ Lumber yards
_._ Magresium working
X Mnil, covared Vehic/e
_ Monitoring wall inatallation
__ Monitoring well deatruction
$\qquad$ Nitrate film Oil and natural gas welle Open burning
$\qquad$ Open-flame devices in marinas Organic coatings Ovens, induatrial baking or drying
_- Parade floataPlaces of assemblyRadioactive materials
$\qquad$ Refrigeration equipmant
___ Spraying or dipping
Tank vahicle日
__ Tente and air-supported structures
__ Tire recapping
_ Waste material handing plant
_-Wolding and cutting operatione


## PLAN RKVIKMS:

$\qquad$ Automatic Sprinkler Syatema, of heada $\qquad$
_ Automatic Fixed Fire Extinguishing Syatemo (specify)
__ Dry Chemical, of Nozzles $\qquad$
_ Halon, of Nozzies $\qquad$

- Other, explain
$\qquad$ Fire Alarm System


## - ${ }^{\text {A }}$

 Automatic Pire Detection System, of detectors- Above Ground Tank Inatallation, of tanka $\qquad$ , tank capacity
__. Above Ground Tank Removal, of tanks $\qquad$ , tank capacity $\qquad$
__ Underground Tank Inatallation, of tankg $\qquad$ tank capacity
__ Underground Tank Removal, of tanke $\qquad$ , tank capacity $\qquad$
__ Underground Tank Abandonment in Place, of tanke $\qquad$ , tank capacity
__ Underground Tank/Line Porformance Teat
$\qquad$ Underground Tank Solla/Water Analytical Raport
_Other, oxplain

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Address of Project $\qquad$ 9000 Northgate Mall

Project/Business Name $\qquad$ Soars Roebuck \& Co

Type of Permit URG,Auto Display in Mall. Permit No. FPB 89-156 Contractors Name $\qquad$
Address $\qquad$
City, State, Zip $\qquad$ Phone No. $\qquad$

Issued by: $\qquad$ Date 8.7 .84
 Conditions:
Application
Complete $\qquad$ Incomplete* $\qquad$ Date $\qquad$
*



Each block represents if hour -- Codes: i - Plan Review, 2 - Field inspection, 3 - Cancellation, 4 - under

## UNIFORM FIRE CODE PERMITS




[^0]:    *VISTA address includes enhanced city and ZIP.
    For more information call VISTA Information Solutions, Inc. at 1-800-767-0403.
    Report ID: 214432-001
    Version 2.6
    Date of Report: July 9, 1998
    Page \#16

[^1]:    *VISTA address includes enhanced city and ZIP.
    For more information call VISTA Information Solutions, Inc. at 1-800-767-0403. Report ID: 214432-001

[^2]:    1 ESL from Table F-1a: ESLs - Water is a current or potential source of drinking water, Chapter 4 of Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater prepared by the California Regional Water Quality Control Board San Francisco Bay Region, Interim final dated November 2007 (revised May 2008).

[^3]:    Dilution

[^4]:    Top of well casing elevation; datum is mean sea level.
    
    
    " " " "
    $=\quad$ Top of well casing elevation; datum is mean sea level.
    $=\quad$ Feet below ground surface.
    

[^5]:    Benzene
    Ethylbenzene
    Total Xylenes
    Methyl-t-butyl ether (MTBE)
    Tert-Butanol
    1,2-Dichloroethane-d4 (Surr)
    Toluene - d8 (Surr)

[^6]:    CUSTOMER ORDER NO. $53772 \mathrm{~s} / \mathrm{m}$ Cust Serrou INVOICE NO. 11-12
    

    DESCRIPTION

